

AUTOMOTIVE TOOLS





COMPANY PROFILE

KLANN was established in Donaueschingen in 1978.

We are a medium-sized, internationally operating company, based in Donaueschingen, and specialise in the development and manufacture of specialist tools for the Automotive Industry and Aftermarket.

We have been partner in the GEDORE Group since 2002.

At our head office in Donaueschingen, we currently employ a staff of 100 highly qualified and motivated people, including 10 apprentices. With more than 90 Patents and German Utility Models at home and abroad, GEDORE Automotive is one of the world's leading manufacturer of professional automotive tools.

Following the brand integration into the GEDORE Group, KLANN Spezial-Werkzeugbau GmbH has become GEDORE Automotive GmbH with effect as from 1 January 2016.

All premium brands and products of the GEDORE Group are now marketed under the renowned brand name GEDORE: from the core brand GEDORE, under which high-quality tools made in Germany have been offered since 1919, the specialist brands KLANN for the Automobile Industry and Aftermarket and LÖSOMAT specialised in torque wrench technology, to GEDORE Solutions, a real problem solver, dedicated to developing and manufacturing customer-specific tools. All these premium brands and products have now been consolidated into the strong GEDORE brand.

When it comes to facilitating and optimizing professional vehicle repairs, GEDORE Automotive's specialist tools are the tools of choice - worldwide.

It is our primary objective to make repairs safer, easier and faster, and, thus, more cost-effective.

To achieve this goal, we continuously design and develop innovative professional tools for all types of vehicles in our fully equipped experimental workshop.

An immediate response to the needs and requirements of the market is vital.

With this in mind, we design and manufacture our tools with state-of-the-art technology and offer practical training courses showing the correct use of our tools in situ on the vehicle in our Training Centre.

In addition to the premium brand GEDORE, carolus stands as GEDORE's second brand for reliable professional tools in the mid-price segment also in the future. Ochsenkopf continues to be our specialist manufacturer of outstanding forestry and carpenter tools with a longstanding tradition.

With this new brand strategy, GEDORE has positioned itself more clearly in the market as a one-stop provider of smart solutions with a wide, high-quality product range of more than 16,000 items.

www.gedore-automotive.com

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Uncompromisingly to a high grade and quality.

We are one of the world's quality leaders in professional tools, workshop furnishings and non-standard solutions for industry, the trades, automotive/utility vehicles and renewable energies, amongst others. Without a doubt, this ranks the GEDORE Group amongst the leading manufacturers on the European market.

Quality is bound up with obligations – something we take seriously and consistently orientate ourselves to. This begins with selecting first-rate materials with which to manufacture our products. The extensive track record of our skilled staff and use of modern, efficient production processes have allowed us to manufacture that premium tool from high-grade material - one which has been synonymous with the GEDORE name for almost 100 years.

When manufacturing our innovative products we rely above all on proven expertise. A great many of our goods are made in a forging process, mostly drop-forging. The result is outstanding quality in terms of robustness, toughness and dimensional stability. It is not without reason that we operate one of the world's largest hydraulic double-acting hammers, which other suppliers greatly appreciate who have their forged parts made by us.

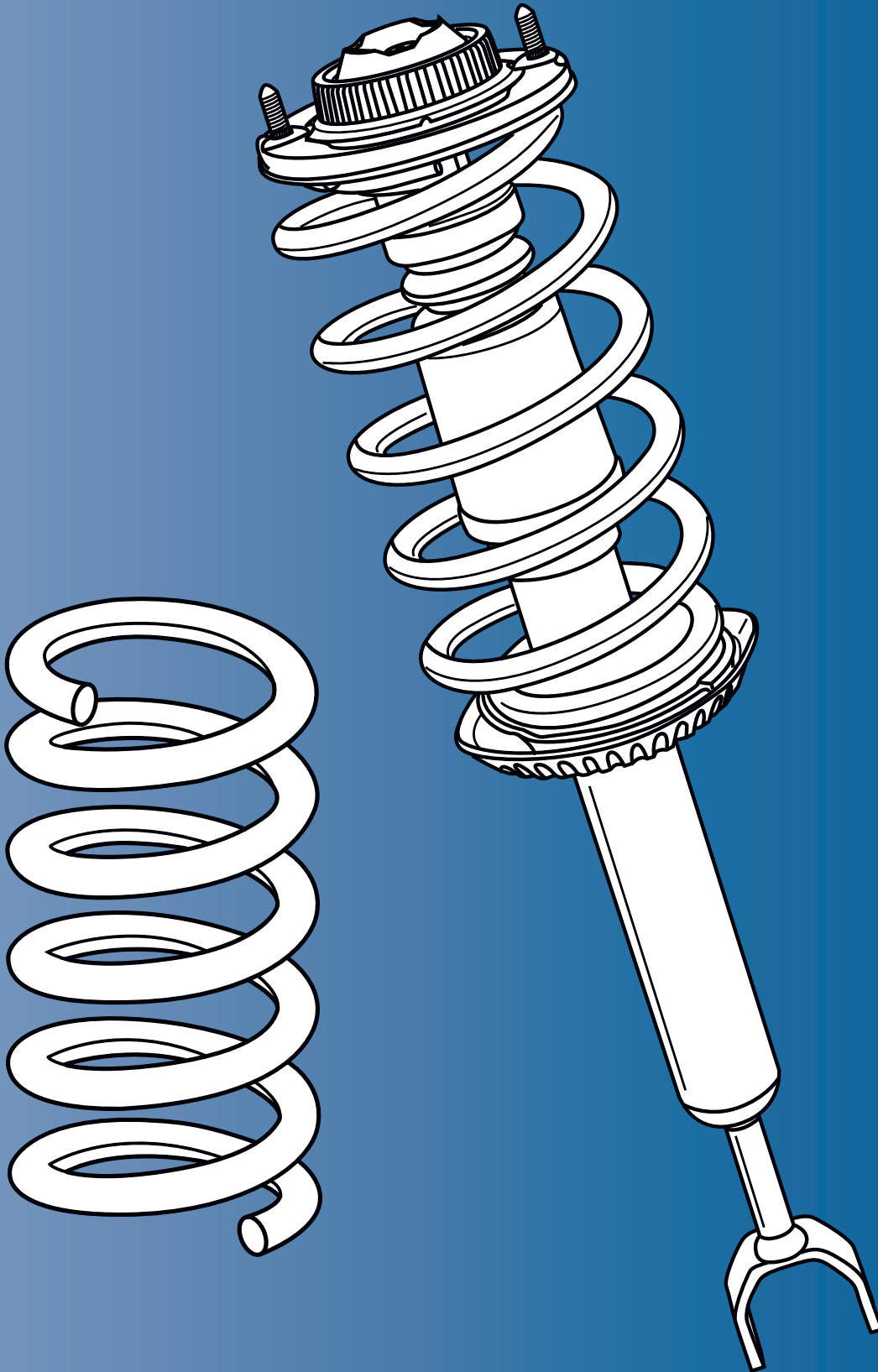
In addition, maximum ergonomics, functionality and precision are very much features of our products. The prime example for a profitable association of all these features is the ALU DREMOMETER – as ever the absolute ultimate in mechanical torque technology.

We see conscientious compliance with quality standards not only as a must, but also as an incentive to go that one step further. In many cases, our tools exceed DIN requirements. Our production processes are continually subjected to examination and auditing. We are certified in accordance with DIN ISO 9001 standards and our calibration laboratories have passed DAkkS auditing as well as other standards.

As a manufacturer we place our faith in a sustained assortment configuration. As such, we create a high degree of investment and planning reliability for you – another reason, in fact, to trust in us.

**We do our best.
Without any reservations attached.**





Springs and Shock Absorbers



Product Demo Video



KL-0029-10 K

(Patented)

Coil Spring Pre-Compressor in a Plastic Storage Case, VW-Audi

Designed for the VW-Audi, Seat, Škoda vehicles built on the MQB, PQ25, PQ35 and NSF platforms such as VW Caddy III (2K), EOS (1F7), Golf V (1K, 6R), Golf VI (5K), Golf VII (5G), Golf Plus (5M), Jetta III (1K2), Polo (6R), Passat (3C, 363, 365), Scirocco (137), Touran (1T), Tiguan (5N), up! (12); Audi A1 (8X), A3 (8P, 8V), TT (8J), Q3 (8U); Seat Altea (5P1), Altea XL (5P1), Ibiza V (6J5), Ibiza V ST (6J8), Leon II (1P1), Toledo III (5P2), Mii (KF1); Škoda Oktavia (1Z3), Oktavia (1Z5), Superb (3T4), Rapid, Citigo etc.

The KL-0029-10 K coil spring pre-compressor allows for the removal and installation of the specified struts after repairs without the need for performing any wheel alignment that might be required by the manufacturer. A special feature of the spring pre-compressor is that pre-tensioning the spring in situ on the vehicle enables the strut to be removed without the need for releasing the control arm/drive shaft, upper ball joint or track rod joint. Due to the unique design of the tool, the shape of the spring is irrelevant. The spring pre-compressor is suitable for a wide range of applications thanks to its compact design comfortably fitting the strut mount area, and the interchangeable support plates.

Its innovative concept saving job time of up to 25% and eliminating the need for axle work and wheel alignment makes this spring pre-compressor a rewarding investment both for now and the future.

Advantages:

- Substantial time and cost savings.
- Eliminates the need for releasing the control arm.
- Eliminates the need for releasing the drive shaft.
- Eliminates the need for releasing the track rod end or upper ball joint.
- Eliminates the need for wheel alignment.
- Design allows for use on coil springs regardless of their shape and pitch.
- All components are available individually as spare parts.

Note/Accessory:

To remove stuck/tight-fitting shock absorbers/strut units from stub axle clamping bores, it is essential to enlarge the clamping bore with the aid of the KL-0104-21-1 A spreader tool.

Technical Data:

Max. load capacity:	17,500N
Max. opening distance*:	335mm
Compression travel*:	110mm
Clamping nut drive:	27mm

* = without support plate

Scope of Delivery:

KL-0029-10 K Coil Spring Pre-Compressor in a Plastic Storage Case, VW-Audi

Part No.	Description	Qty
KL-0029-10	Coil Spring Pre-Compressor, VW-Audi	1
KL-0029-1090	Plastic Storage Case	1

Scope of Delivery:

KL-0029-10 Coil Spring Pre-Compressor, VW-Audi

Part No.	Description	Qty
KL-0029-100	Base Tool with Screws	1
KL-0029-111	Support Plate with Bolts, Size 1	1
KL-0029-120	Upgrade Kit, Size 2	1
KL-0029-130	Upgrade Kit, Size 3	1
KL-0029-1303	Shock Absorber Holding-Down Clamp	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



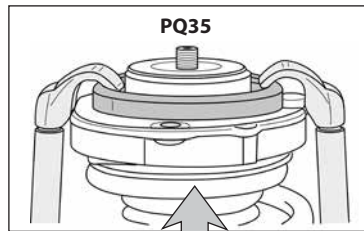
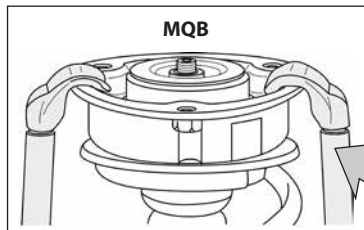
Coil Spring Pre-Compressor

(Pat.)

KL-0029-10

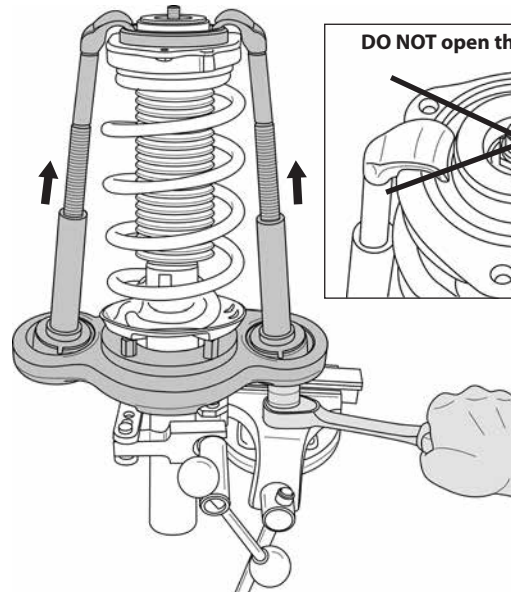
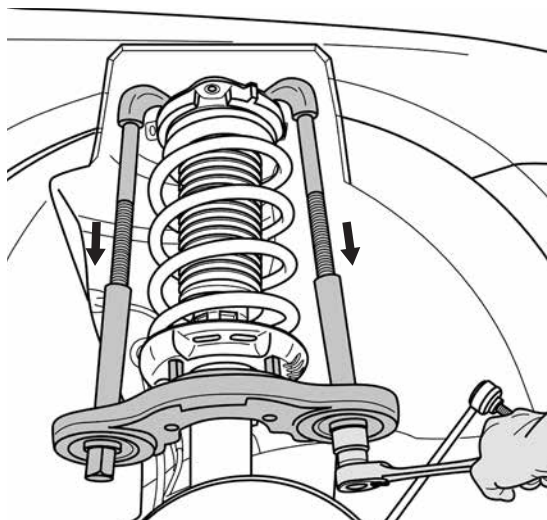
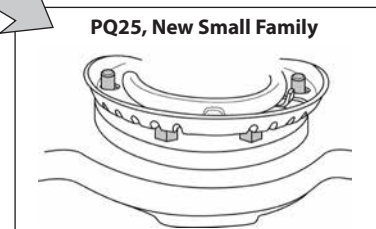
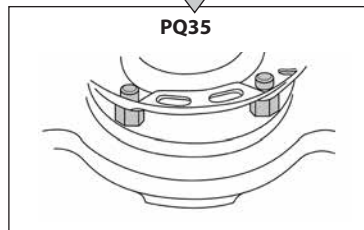
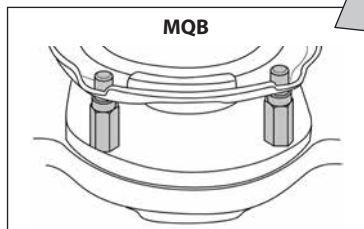
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Positioning the coil spring pre-compressor:



Clean the surfaces for the support rings and strut mount from dirt and rust.

Apply coil spring pre-compressor against strut as shown.



DO NOT open the piston rod nut!

To compress the strut, uniformly and alternately turn the drive nuts clockwise by means of a 1/2" reversible ratchet in conjunction with a 27mm (waf) socket as shown.

Remove strut from strut clamping bore.
Clamp strut in the **KL-0055-60** holding fixture (accessory).

Note: The **KL-0029-10** coil spring pre-compressor must not be used for disassembling suspension struts.

To relieve pressure on the strut, uniformly and alternately turn the drive nuts counter-clockwise by means of a 1/2" reversible ratchet in conjunction with a 27mm (waf) socket until the hooks are released.
Remove coil spring pre-compressor from strut.

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KL-0029-11 K

(Patented)

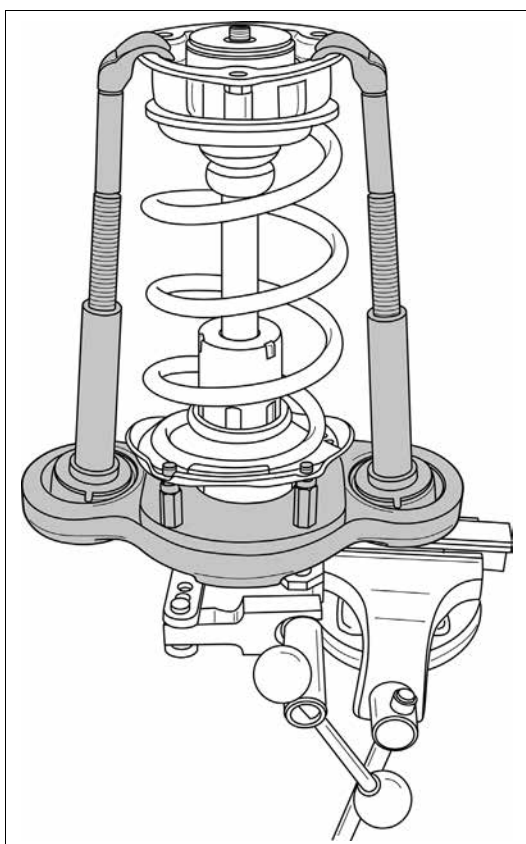
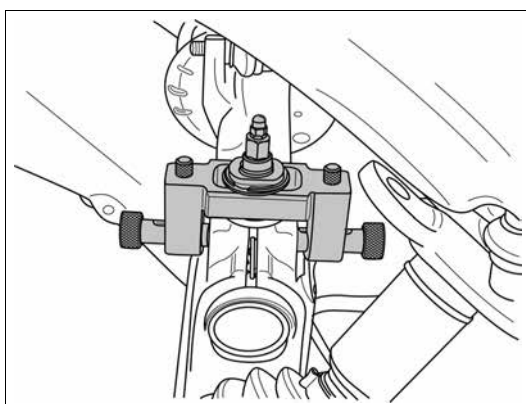
Coil Spring Pre-Compressor Kit, in a Storage Case

Designed for the VW-Audi, Seat, Škoda vehicles built on the MQB, PQ25, PQ35 as well as NSF platforms such as: VW Caddy III (2K), EOS (1F7), Golf V (1K, 6R), Golf VI (5K), Golf VII (5G), Golf Plus (5M), Jetta III (1K2), Polo (6R), Passat (3C, 363, 365), Scirocco (137), Touran (1T), Tiguan (5N), Up! (12); Audi A1 (8X), A3 (8P, 8V), TT (8J), Q3 (8U); Seat Altea (5P1), Altea XL (5P1), Ibiza V (6J5), Ibiza V ST (6J8), Leon II (1P1), Toledo III (5P2), Mii (KF1); Škoda Octavia (1Z3), Octavia (1Z5), Superb (3T4), Rapid, Citigo etc.

The **KL-0029-11 K** coil spring pre-compressor kit allows for the fast, safe and professional removal and installation of the specified struts after repairs without the need for performing any wheel alignment that might be required by the manufacturer. With the **KL-0104-21..** spreader tool, the clamping bore can be enlarged exactly to the required size. Then, by pre-compressing the spring in situ on the vehicle with the aid of the **KL-0029-10** coil spring pre-compressor, the strut can easily be removed without the need for releasing the control arm/drive shaft, upper ball joint or track rod joint. Due to the unique design of the tool, the shape of the spring is irrelevant.

The kit is suitable for a wide range of applications, thanks to the interchangeable support plates and the compact design of the pre-compressor comfortably fitting the strut mount area.

Its innovative concept saving job time of up to 25% and eliminating the need for axle work and wheel alignment makes this spring pre-compressor kit a rewarding investment both for now and the future.



Scope of Delivery: KL-0029-11 K Coil Spring Pre-Compressor Kit, in a Storage Case

Part No.	Description	Qty
KL-0029-11 E	Coil Spring Pre-Compressor Kit, in a Foam Insert	1
KL-4999-1397	Plastic Storage Case	1

Scope of Delivery: KL-0029-11 E Coil Spring Pre-Compressor Kit, in a Foam Insert

Part No.	Description	Qty
KL-0029-11	Coil Spring Pre-Compressor Kit	1
KL-4999-1324	Foam Insert	1

Scope of Delivery: KL-0029-11 Coil Spring Pre-Compressor Kit

Part No.	Description	Qty
KL-0029-10	Coil Spring Pre-Compressor	1
KL-0104-21-1 A	Spreader Tool with Wedge No.1 and No.2	1
KL-0104-211	Spreader Tool Upgrade Kit, VW T5	1

Scope of Delivery: KL-0029-10 Coil Spring Pre-Compressor, VW-Audi

Part No.	Description	Qty
KL-0029-100	Base Tool with Screws	1
KL-0029-111	Support Plate with Bolts, Size 1	1
KL-0029-120	Upgrade Kit, Size 2	1
KL-0029-130	Upgrade Kit, Size 3	1
KL-0029-1303	Shock Absorber Holding-Down Clamp	1

Scope of Delivery: KL-0104-21-1 A Spreader Tool Kit with Wedge No.1 and No.2

Part No.	Description	Qty
KL-0104-21 A	Spreader Tool (adjustable) with Wedge No.1	1
KL-0104-2122	Pressure Screw with Wedge No.2	1

Scope of Delivery: KL-0104-211 Spreader Tool Upgrade Kit, VW T5

Part No.	Description	Qty
KL-0104-2123	Pressure Screw with Wedge No. 3	1
KL-0104-2111	Bolt, Ø 10mm for thread bore	1

KL-0029-160

Upgrade Kit, Size 6

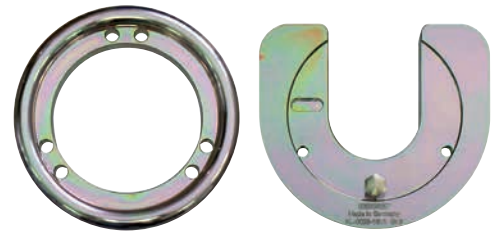
Suitable for BMW front axle suspension struts; as found in BMW 3 Series (E46), (E90/E91); 5 Series (E39), (E60/E61), 1 Series (E81/E87).

The **KL-0029-160** kit is designed to upgrade the **KL-0029-100** coil spring pre-compressor base tool/the **KL-0029-10 K/KL-0029-11 K** coil spring pre-compressors by making these also suitable for use on the above-mentioned vehicles.

Note: The **KL-0029-16 K** coil spring pre-compressor kit for BMW consists of **KL-0029-100**, **KL-0029-160** and the plastic storage case **KL-0029-1090**.

Scope of Delivery: KL-0029-160 Upgrade Kit, Size 6

Part No.	Description	Qty
KL-0029-161	Support Plate with Bolt, Size 6	1
KL-0029-1602	Support Ring, Size 6	1



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KL-0029-170

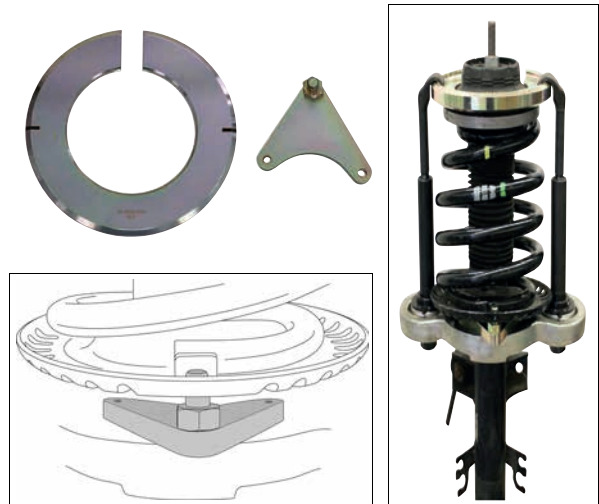
Upgrade Kit, Size 7

Suitable for VW front axle suspension struts; as found in VW T5 (7J, 7H, 7E, 7F).

The **KL-0029-170** kit upgrades the **KL-0029-100** coil spring pre-compressor base tool/the **KL-0029-10 K/KL-0029-11 K** coil spring pre-compressors by making these also suitable for use on the above-mentioned vehicles.

Scope of Delivery: KL-0029-170 Upgrade Kit, Size 7

Part No.	Description	Qty
KL-0029-171	Support Plate with Bolt, Size 7	1
KL-0029-1702	Support Ring, Size 7	1



KL-0029-1303

Shock Absorber Holding-Down Clamp

Suitable for Audi A1 (8X), Seat Ibiza V (6J5), Seat Ibiza V ST (6J8), Škoda Rapid, VW Polo V (6R) etc.

Designed to facilitate the removal of suspension struts. The use of the **KL-0029-1303** shock absorber holding-down clamp ensures that the piston rod is securely held and pressed down in the upper spring plate while the suspension strut is being pre-compressed with the aid of the **KL-0029-10** tool.

Supplied with the **KL-0029-10** coil spring pre-compressor.



KL-0145-120 A

Supporting Device for Control Arm

Universal application.

The device is used in conjunction with a transmission jack for supporting control arms. The support takes place via the wheel hub, thus, ensuring the correct raising and lowering of control arms/axles to specified positions. An indispensable tool when removing and installing a suspension strut.



1



Mobile Modular Workstation

"MODULO Chassis/Suspension, Master Tool Kits"

Universal application.

The example of the Mobile Modular Workstation "**MODULO Chassis/Suspension, Master Tool Kits**" shows the ideal configuration of tool modules for the mobile workplace with all the tool needed for the fast, organised and cost-effective replacement of suspension struts/shock absorbers.

Possible equipment of the:

Mobile Modular Workstation "MODULO Chassis/Suspension, Master Tool Kits"

Part No.	Description	Qty
KL-5501	Spring Compressor (Stationary)	1
KL-0029-11 E	Coil Spring Pre-Compressor Kit	1
KL-9002 SP E	Telescopic Safety Spring Compressor	1
KL-9001-16 SP	Pair of Jaws with Protective Inserts, Size 0, Extended Design	1
KL-0021 E	Spring Compressor	1
KL-0056-10 E	Shock Absorber Piston Rod Tool Set	1
KL-4999-1202	Drawer Divider with Rivets	2
KL-4999-1203	Drawer Divider with Rivets	1
KL-4999-1325	Drawer Insert Adaptor	3
KL-4999-1329	Drawer Insert, 651mm	1
KL-4999-120	Workshop Trolley/Workbench (without tools)	1

Mobile Modular Workstation

"MODULO Chassis/Suspension, Base Tool Kits"

Universal application.

The example of the Mobile Modular Workstation "**MODULO Chassis/Suspension, Base Tool Kits**" shows the ideal configuration of tool modules for the mobile workplace with all the basic tool needed for the fast, organised and cost-effective replacement of suspension struts/shock absorbers.



Possible equipment of the:

Mobile Modular Workstation "MODULO Chassis/Suspension, Base Tool Kits"

Part No.	Description	Qty
KL-5501	Spring Compressor (Stationary)	1
KL-0029-11 E	Coil Spring Pre-Compressor Kit	1
KL-0056-10 E	Shock Absorber Piston Rod Tool Set	1
KL-4999-1202	Drawer Divider with Rivets	1
KL-4999-1203	Drawer Divider with Rivets	1
KL-4999-1325	Drawer Insert Adaptor	1
KL-4999-1329	Drawer Insert, 651mm	1
KL-4999-120	Workshop Trolley/Workbench (without tools)	1

KL-5501

(Patented)

Spring Compressor (Stationary)

1

Universally suitable for MacPherson suspension and damper strut designs; for example, for those with standard springs, right-hand or left-hand coiled springs, eccentric springs or spring plates, conical springs, springs with a small number of windings, springs with high or varying spring coil pitch.

This spring compressor allows the spring to be compressed with its upper spring plate against the lower spring plate, hence the spring shape or the spring coil pitch are irrelevant. The variably settable spring-compressing assembly, the adjustable support column assembly and the strut-holding clamp with one-hand operation widen the field of application of the spring compressor to virtually any strut or shock absorber while, at the same time, satisfying the highest Health and Safety Standards.

Advantages:

Universal application!

The special design of the spring-compressing assembly, respectively the jaws, as well as of the cantilever arms and swivelling bar, enables repairs to the above mentioned MacPherson suspension/damper strut designs to be carried out safely, quickly and professionally.

No damage to the strut tube!

The clamping bars of the strut-holding clamp can quickly be adjusted to the respective strut tube diameter by means of a knurled nut. Clamping jaws feature protective plastic coating.

Allows for one-person operation!

The whole procedure can be carried out by just one person. The strut-holding clamp is equipped with a quick-clamping and a one-hand-operation device to allow for ease of use.

Mobile use, e.g. with workshop trolley/workbench (KL-4999-120)

The stationary spring compressor features a mounting plate that enables it to be fixed either to the workshop trolley KL-4999-120 or to a workbench. The workshop trolley is ideal for use in garages and workshops allowing the mechanic to carry out repairs conveniently next to the vehicle.

Technical Data:

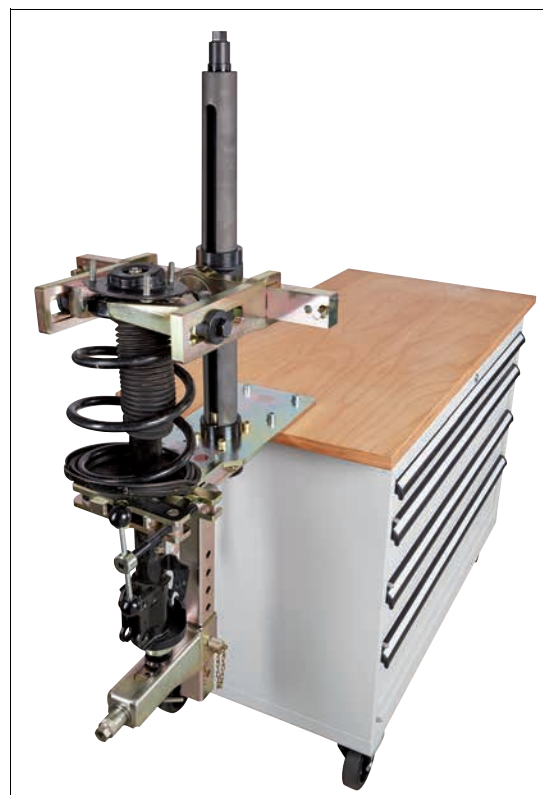
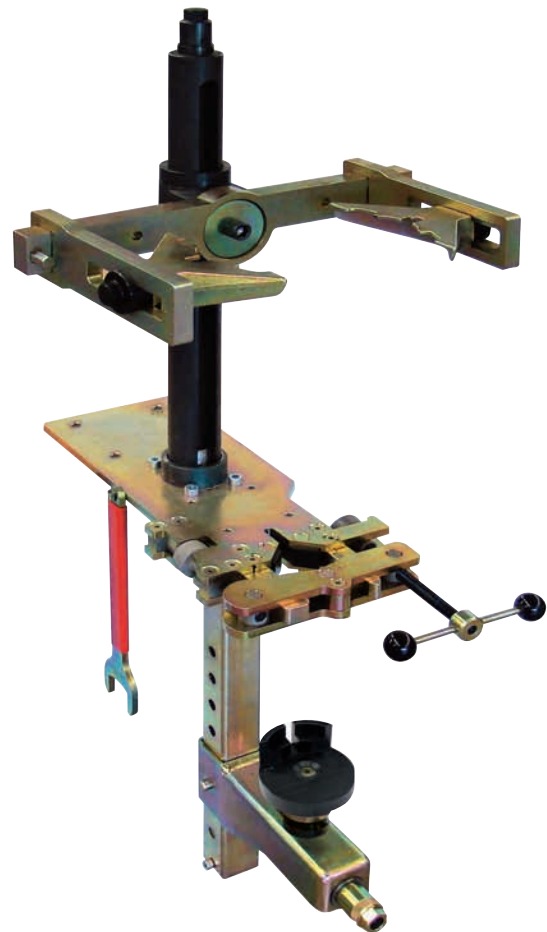
Breaking point:	60,000N
Drive:	24mm
Max. load capacity:	15,000N
Weight without trolley:	46kg



Product Demo Video

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



1

Universally applicable to all common MacPherson suspension/damper strut designs, e.g., with ...



...right-hand coiled springs



...left-hand coiled springs



...conical springs



...eccentric springs



...springs with high spring coil pitch



...springs with a small number of windings



...springs with varying spring coil pitch



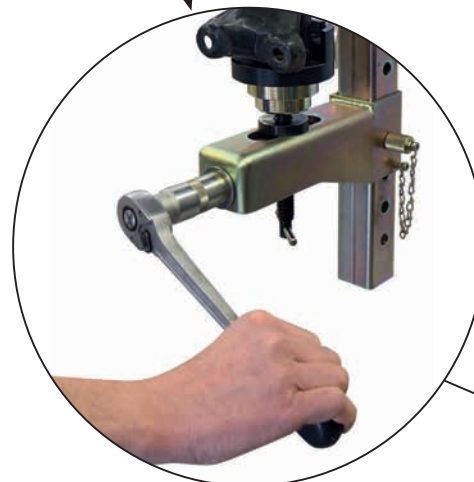
✓ Safe and effective working.

Flexible spring-compressing assembly (e.g., necessary on Mercedes W203)



Central positioning of the piston rod

✓ High-quality product made in Germany.



Aligning the suspension strut

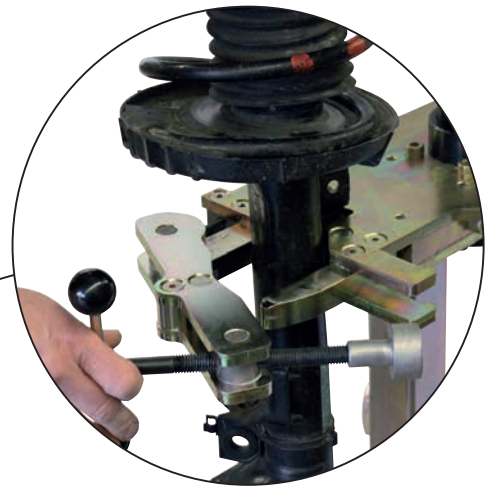
- ☑ **Variably adjustable spring-compressing assembly. No additional jaws needed.**

Spring-compressing assembly, infinitely adjustable

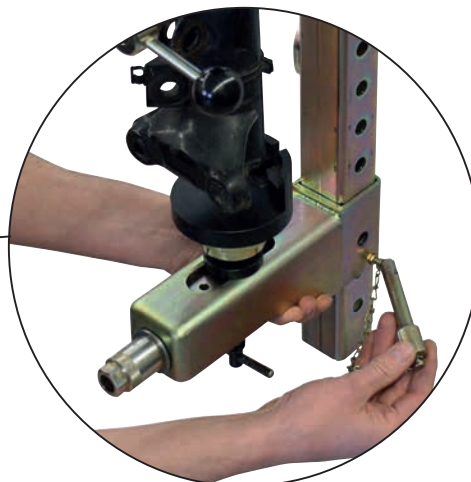


- ☑ **Easy to use.**

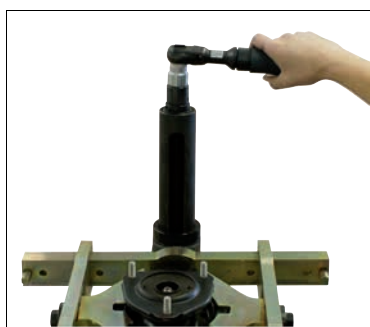
Quick-action strut-holding clamp (damage-free and secure retention of the damper)



Supporting column assembly, adjustable in height



1



GEDORE 5011 Code: 1479229 Ratchet Wrench 1/2"

Technical Data:

Drive square:	1/2"
Idle speed:	180rpm
Max. torque:	67Nm
Compressed air connector:	1/4"
Working pressure:	6.2bar
Air consumption:	220 l/min
Length:	270mm
Height:	60mm
Weight:	1.2kg



KL-4999-120

Workshop Trolley/Workbench (without tools)

The sturdy workshop trolley/workbench **KL-4999-120** is designed to be used in conjunction with the stationary spring compressor **KL-5501** as well as with the wheel bearing/silentbloc tools of the **KL-0039-Series**, thus providing you with a professional and mobile workplace for accurate and quick chassis or axle repairs. The large Multiplex worktop made from solid beech offers the ideal work surface. The convenient push handle and the smooth-running castors (125mm), two of them are steering castors with brakes, ensure the easy and mobile use of the trolley. The 4 drawers feature an individual locking mechanism as well as a central lock designed to prevent any unintentional opening of the drawers. Each drawer has a load capacity of up to 80kg. Thanks to the full-extension slides, the drawers can be pulled out completely, thus, allowing for proper storage, full visibility and easy access to the tools. An ingenious "one-drawer-at-a-time" interlock mechanism prevents the opening of several drawers at the same time and, as a result, the trolley from tilting/tipping over. The unique GEDORE Automotive Modular System allows you to customize each of the drawers with the foam inserts of the **KL-4999-131...-Series** and all the necessary tool sets to meet exactly your requirements. This provides you with the possibility of creating your own "Mobile Modular Workstation" tailor-made and always perfectly adapted to your specific needs, thus helping you to significantly improve the productivity of your workshop. The foam inserts of the **KL-4999-131...-Series** are designed to keep your GEDORE Automotive tools always properly organised and well protected. This ingenious tool storage system from GEDORE Automotive allows you to find the tool you need quickly and easily, and to identify missing tools at a glance. As a result, repairs can be carried out more efficiently - saving you time and money. The foam inserts are provided with specifically tool-shaped spaces to ensure that tools are safely stored and can be taken out and put back in place with ease.

Technical Data:

Dimensions:	W 1200 x H 900 x D 600mm
Worktop:	W 1200 x H 25 x D 600mm
Drawer (1x):	W 1000 x H 100mm
Inner dimensions of drawer:	W 1000 x H 95 x D 445mm
Drawer (2x):	W 1000 x H 150mm
Inner dimensions of drawer:	W 1000 x H 140 x D 445mm
Drawer (1x):	W 1000 x H 200mm
Inner dimensions of drawer:	W 1000 x H 190 x D 445mm
Steering castor with brake (2x):	Ø 125mm
Fixed castor (2x):	Ø 125mm
Weight:	125kg

Note: For additional accessories for this workshop trolley/workbench such as the storage system of the **KL-0039 Series**, please refer to chapter 10 in this Catalogue.



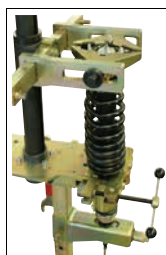
KL-5501-161

(German Utility Model)

Adaptor for Mercedes M-Class

Suitable for Mercedes M-Class (W163) rear suspension strut assemblies.

The **KL-5501-161** adaptor is designed to enable the specified rear suspension struts to be placed on the lower supporting plate of the strut-holding clamp. For this, the adaptor is attached to the lower end of the strut.



KL-5501-171

Adaptor Ring, Nissan, Renault, Fiat

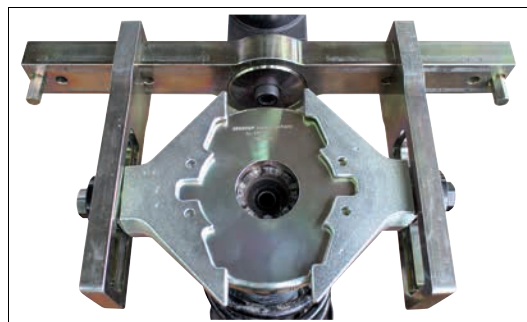
Suitable for front suspension strut assemblies as fitted to Nissan Qashqai (J11), Renault Kadjar and Fiat Panda (312, 319).

The **KL-5501-171** adaptor ring enables the jaws of the **KL-5501** spring compressor to be safely positioned on the spring plate of the front suspension strut.

For this, place adaptor ring on upper spring plate. Observe mark **Top/oben** on adaptor ring!

Technical Data:

External Ø:	170mm
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KL-5501-1435

Adaptor for Mercedes (W164)

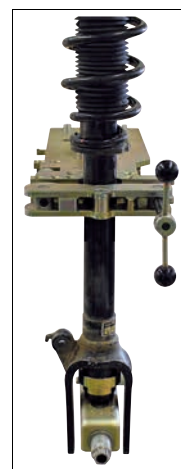
Suitable for suspension strut assemblies found at the front axle of Mercedes M-Class (W164).

The **KL-5501-1435** adaptor allows front suspension struts of the Mercedes M-Class (W164) to be safely and securely placed onto the lower supporting plate of the **KL-5501** spring compressor.

The adaptor is mounted to the spring compressor instead of the **KL-5501-1431** plastic rest.

Technical Data:

Adaptor Ø:	57mm
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KL-9001-3141

Adaptor Ring, Mercedes W212

Suitable for Mercedes E-Class (W212), front suspension strut.

The **KL-5501-1435** adaptor allows front suspension struts of the Mercedes M-Class (W164) to be safely and securely placed onto the lower supporting plate of the **KL-5501** spring compressor. The adaptor is mounted to the spring compressor instead of the **KL-5501-1431** plastic rest.



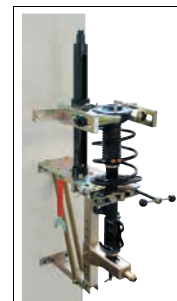
KL-5501-20

Wall Mount Bracket

The **KL-5501-20** wall mount bracket enables the stationary spring compressor **KL-5501** to be fixed to a vertical wall.

Technical Data:

Weight:	4.8kg
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1

Telescopic Safety Spring Compressor

KL-9002

✓ Maximum load 27,500N.

✓ Automatic freewheel of the spindle.

✓ All components are available as spare parts.

✓ Universally suitable, for example, for MacPherson strut/semi-strut designs.

✓ No key bed in the piston .
➤ High Load Capacity.

✓ High-quality product made in Germany.

✓ Cylinder and piston nitrided (68 Rockwell) ensuring high wear resistance.



✓ Bayonet Locking System for jaw mounting with automatic self-locking mechanism.

✓ Sealed Spindle System „Maintenance-Free“ (no particles can enter).

✓ Latching System for adjusting the jaw opening width.

✓ A wide range of jaws for various applications available.

✓ Interchangeable plastic protective inserts to prevent the spring from breakage caused by notches and corrosion.

Compressing and decompressing a conical spring.



Compressing the spring in situ on the vehicle, and removing it.

Compressing the spring via the upper spring plate.



Compressing the spring via the upper spring plate.

KL-9002

Telescopic Safety Spring Compressor

Universally suitable for vehicles equipped with MacPherson suspension/damper struts. Ideal for all-wheel-drive vehicles, transporters and vans such as Citroën Jumper; Fiat Ducato; Mercedes Vito, V-Class, M-Class, W210 4Matic; Peugeot Boxer, Break; Renault Master etc.

(If necessary, additional jaws can be used!)

The use of special jaws will also enable coil springs mounted to wishbone suspensions to be removed and installed if space conditions allow.

Comes with pairs of jaws in size 1 and 2 designed for spring diameters of from 100-175mm.

Additional jaws for spring-Ø of from 70-210mm are available as accessories.

Max. load capacity 27,500N *

*at the specified 4-times Safety-Factor, the maximum load capacity of the spring compressor is 27,500N!

The unique universal telescopic spring compressor

- which, due to a special latching system, allows the jaw openings (distance between jaws) to be adjusted from a minimum distance of **40mm** to a maximum of **361mm**. This is an important feature when it comes to compressing very short springs (2-3 coils) but also very long springs so as to allow all these to be fully de-compressed and/or replaced. (e.g. Audi, BMW, Fiat, Ford, Lancia, Mazda, Mercedes, Renault etc.)
- which features a patented **Bayonet Interlock System with an automatic self-locking mechanism** designed to safely fix the forged jaws to the compressor body (no tools, bolts or locking rings required).
- whose spindle drive remains closed if the safety pin shears off. Thanks to the auxiliary drive, the compressed spring can then be decompressed to enable a new safety pin to be installed.
- which is equipped with an **automatic freewheel** designed to prevent the spindle from overload during the de-compression process once the maximum end of travel has been reached - thus eliminating the risk of damage to the spring compressor.
- which enables **plastic protective inserts**, necessary to protect the coating of the spring, to be screw-connected to the jaws. Important to prevent spring failure/breakage caused by notches and corrosion.
- which is suitable for virtually any MacPherson suspension/damper strut systems, as well as for many other wishbone suspensions - thanks to a wide range of jaws available as accessories.

Thanks to the interaction of special high-precision components and the use of wear-resistant nitrided steel, the compressor base body not only is smooth-running but also highly resistant to wear and tear. To compress a spring having a coil-bound force of approx. 18,000N (for example of a Mercedes M-Class) a torque of only 35Nm is required!

Examples of maximum spring coil-bound forces:

- VW Polo ca. 6,000N
- Audi A4 ca. 9,000N
- Fiat Ducato ca. 15,000N
- VW Golf ca. 7,000N
- Mercedes Vito ca. 14,200N
- BMW X5 ca. 18,000N
- VW Passat ca. 8,000N
- Peugeot Boxer ca. 15,000N
- MB M Class ca. 18,000N

Technical Data:

Compressor Base Body		KL-9002-100
L min.	Overall length min.:	475mm
L max.	Overall length max.:	715mm
A	Working Travel (piston stroke):	305mm
SPF	Spindle freewheel at:	735mm
S min. I	Jaw opening min. (I) (distance between jaws):	40mm
S min. II	Jaw opening min. (II) (distance between jaws):	72mm
S max. I	Jaw opening max. (I) (distance between jaws):	328mm
S max. II	Jaw opening max. (II) (distance between jaws):	361mm
	Load capacity max. (at 4-times safety factor):	27,500N
	Breaking point:	110,000N
	Spindle drive:	24mm (waf)
	Weight of compressor base body:	6.9kg
	Weight of compressor base body with jaws size 1 + 2:	13.4kg

Note: Additional jaws for spring-Ø of from 70-210 mm are available as accessories.

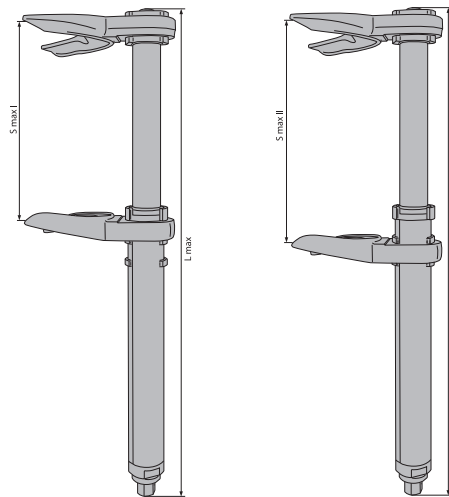
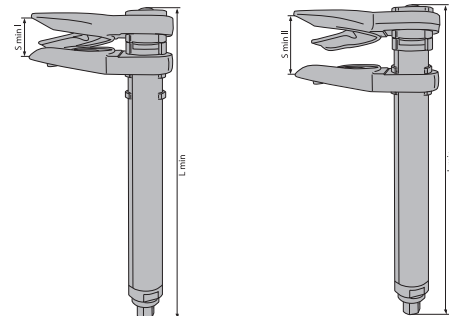
KL-9002 SP Telescopic Safety Spring Compressor (not shown)

Like the KL-9002, but comes with jaws with protective inserts.



Advantages:

- Jaw-mounting device with automatic self-locking mechanism
- Adjustable jaw-opening device
- Drive features an additional auxiliary drive
- Automatic freewheel of the spindle
- Also suitable for conical springs
- Plastic protective inserts (available as accessories)



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



Scope of Delivery:

KL-9002 Telescopic Safety Spring Compressor

Part No.	Description	Qty
KL-9002-100	Compressor Base Body	1
KL-9001-11	Pair of Jaws in size 1	1
KL-9001-12	Pair of Jaws in size 2	1

1



Application Video

KL-9002 SP K

Telescopic Safety Spring Compressor, in a Storage Case

Universally suitable for vehicles with MacPherson Struts and Semi-Struts; THE ideal tool for 4x4 vehicles, Transporters and Vans such as Citroën Jumper; Fiat Ducato; Mercedes Vito, V-Class, M-Class, W210 4Matic; Peugeot Boxer, Break; Renault Master etc.

Comes with pairs of jaws with protective inserts in size 1 and 2 designed for spring diameters of from 100-175mm.

Scope of Delivery: KL-9002 SP Telescopic Safety Spring Compressor

Part No.	Description	Qty
KL-9002 SP E	Telescopic Safety Spring Compressor, in a Foam Insert	1
KL-4999-1395	Plastic Storage Case	1

Scope of Delivery: KL-9002 SP E Telescopic Safety Spring Compressor

Part No.	Description	Qty
KL-9002 SP	Telescopic Safety Spring Compressor	1
KL-4999-1322	Foam Insert	1

Scope of Delivery: KL-9002 SP Telescopic Safety Spring Compressor

Part No.	Description	Qty
KL-9002-100	Compressor Base Body	1
KL-9001-11 SP	Pair of Jaws in size 1, with Protective Inserts	1
KL-9001-12 SP	Pair of Jaws in size 2, with Protective Inserts	1



KL-9001-10

KL-9001-10 SP Pair of jaws size 0 with protective inserts (not shown)
Like the KL-9001-10, however with protective inserts included.



KL-9001-11

KL-9001-11 SP Pair of jaws size 1 with protective inserts (not shown)
Like the KL-9001-11, however with protective inserts included.



KL-9001-12

KL-9001-12 SP Pair of jaws size 2 with protective inserts (not shown)
Like the KL-9001-12, however with protective inserts included.



KL-9001-13

KL-9001-13 SP Pair of jaws size 3 with protective inserts (not shown)
Like the KL-9001-13, however with protective inserts included.

KL-9001-.. Pairs of Jaws

Universal application.

Pairs of special jaws with closed attachment ring.

KL-9001-10

Pair of Jaws, Size 0

Technical Data:

For spring Ø:	70-125mm
Weight (Pair):	2.5kg

KL-9001-11

Pair of Jaws, Size 1

Technical Data:

For spring Ø:	100-163mm
Weight (Pair):	3.1kg

KL-9001-12

Pair of Jaws, Size 2

Technical Data:

For spring Ø:	135-175mm
Weight (Pair):	3.3kg

KL-9001-13

Pair of Jaws, Size 3

Technical Data:

For spring Ø:	165-210mm
Weight (Pair):	4.3kg

KL-9001-33 SP

Pair of Jaws, Size 1B, with Protective Inserts

Suitable for Audi Q7, Porsche Cayenne, VW Touareg.

Designed to compress and decompress front springs.

Technical Data:

For spring-Ø:	100-163mm
Weight (Pair):	3.4kg



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KL-9001-16

Pair of Jaws, Size 0, Extended Design

Suitable for VW Golf V rear axle, Volvo etc.

These jaws with an extended attachment axle (extended by approximately 30mm) are ideal for springs that are hard to reach. Thanks to the possibility of using an extended jaw in combination with a non-extended jaw, also conical springs can be compressed.

Technical Data:

For spring Ø:	70-125mm
Weight (Pair):	3.0kg



KL-9001-16 SP Pair of jaws in size 0 with protective inserts (not shown)
Like the KL-9001-16, but comes with protective inserts.

KL-9001-17

Pair of Jaws, Size 1, Extended Design

Suitable for Nissan Pathfinder, Seat Arosa, VW Lupo, Mercedes etc.

This pair of jaws with an extended attachment axle (extended by approximately 30mm) is ideal for springs that are hard to reach. Thanks to the possibility to use an extended jaw in conjunction with a non-extended jaw, also conical springs can be compressed.

Technical Data:

For spring Ø:	100-163mm
Weight (Pair):	3.7kg



KL-9001-17 SP Pair of jaws size 1 with protective inserts (not shown)
Like the KL-9001-17 however, with protective inserts included.

KL-9001-18

Pair of Jaws, Size 2, Extended Design

Universally suitable.

This pair of jaws with an extended attachment axle (extended by approximately 30mm) is ideal for springs that are hard to reach. Thanks to the possibility to use an extended jaw in conjunction with a non-extended jaw, also conical springs can be compressed.

Technical Data:

For spring Ø:	135-175mm
Weight (Pair):	3.7kg



KL-9001-18 SP Pair of jaws size 2 with protective inserts (not shown)
Like the KL-9001-18 however, with protective inserts included.

KL-9001-15

Pair of Jaws, Size 5

Suitable for Mercedes E-Class (W210 4Matic), Alfa Romeo, Chrysler, Nissan, VW Lupo rear axle, etc.

Ideal for hard-to-reach springs. Used in conjunction with a non-extended jaw, this tool also enables conical springs to be compressed.

Technical Data:

For spring Ø:	70-116mm
Weight (Pair):	3.0kg



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KL-9001-32 SP

Pair of Jaws, Size 1, with Protective Inserts

Suitable for Audi A8 (armoured) rear axle.

Ideal for conical and hard-to-reach springs.

Technical Data:

Weight:	3.4kg
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KL-9001-14

Pair of Jaws, Size 4

Suitable for Citroën C 15 rear axle and Peugeot 305 Break rear axle.

Technical Data:

Weight (Pair):	3.0kg
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Scope of Delivery: KL-9001-14 Pair of Jaws Size 4

Part No.	Description	Qty
KL-9001-1410	Jaw, size 4A	1
KL-9001-1420	Jaw, size 4B	1



Technical Data:

For spring Ø:	165mm
Weight:	1.9kg

KL-9001-1920

Jaw, Size 6

Suitable for Peugeot 206 (1998 onwards).

Special jaw with an open jaw ring.



Technical Data:

For spring Ø:	165mm
Weight:	2.8kg

KL-9001-1900

Ring Jaw

Suitable for BMW E46 (3 Series) and BMW E39 (5 Series).

Designed to compress and decompress front springs.



Technical Data:

Clearance-Ø:	139mm
Inner Ø:	160mm

KL-9001-1910

Adaptor Ring, BMW E46

Suitable for BMW E46 (3 Series 1998 onwards), E39 (5 Series 1995 onwards) front spring.

Spacer ring for ring jaw **KL-1571**.



KL-9001-310

Ring Jaw with Adaptor Ring, Mercedes W203

Suitable for Mercedes C-Class (W203).

Designed to compress and decompress front springs.

Scope of Delivery: KL-9001-310 Ring Jaw with Adaptor Ring

Part No.	Description	Qty
KL-9001-3100	Ring Jaw, Mercedes W203	1
KL-9001-3110	Adaptor Ring, Mercedes W203	1

KL-9001-20

Pair of Protective Inserts, Size 0,
with Grooved Nails

Matching the pair of jaws KL-9001-10.
8 grooved nails **KL-9001-2002** included.



KL-9001-21

Pair of Protective Inserts, Size 1,
with Grooved Nails

Matching the pair of jaws KL-9001-11.
8 grooved nails **KL-9001-2002** included.



KL-9001-22

Pair of Protective Inserts, Size 2,
with Grooved Nails

Matching the pair of jaws KL-9001-12.
8 grooved nails **KL-9001-2002** included.



KL-9001-23

Pair of Protective Inserts, Size 3,
with Grooved Nails

Matching the pair of jaws KL-9001-13.
8 grooved nails **KL-9001-2002** included.



KL-9001-91

Jaw Set for BMW

Suitable for BMW E46 (3 Series 1998 onwards), E39 (5 Series 1995 onwards), E87 (1 Series 2004 onwards).

Designed to compress and decompress front springs.

Scope of Delivery: KL-9001-91 Jaw Set for BMW

Part-No.	Description	Qty
KL-9001-1900	Ring Jaw	1
KL-9001-1910	Adaptor Ring, BMW E46	1
KL-9001-1310 SP	Jaw, Size 3, with Protective Insert	1



KL-9001-94

Jaw Set for BMW E87 / E90

Suitable for BMW E87 and E90.

Designed to compress and decompress front springs.

Scope of Delivery: KL-9001-94 Jaw Set for BMW E87 / E90

Part No.	Description	Qty
KL-9001-1900	Ring Jaw	1
KL-1579	Adaptor Ring, BMW E90, for Ring Jaw	1
KL-9001-1700 SP	Jaw, Size 1, Extended Design with Protective Insert	1



1



KL-9001-93 A

Jaw Set, Mercedes W211, W230

Suitable for Mercedes E-Class (W211) and SL (W230) front axle.

Designed to compress and decompress front springs.

Scope of Delivery:

KL-9001-93 A Jaw Set Mercedes W211, W230

Part No.	Description	Qty
KL-9001-1600 SP	Jaw, Size 0, Extended Design, with Protective Insert	1
KL-9001-312 A	Ring Jaw with Adaptor Ring	1



KL-9001-312 A

Ring Jaw with Adaptor Ring, Mercedes W211/W230

Suitable for Mercedes E-Class (W211) and SL (W230) front axle.

Designed to compress and decompress front springs.

Scope of Delivery:

KL-9001-312 A Ring Jaw with Adaptor Ring, Mercedes W211/W230

Part No.	Description	Qty
KL-9001-1900	Ring Jaw	1
KL-9001-3121 A	Adaptor Ring MB W211/W230, without Screws	1
KL-9001-3112	Countersunk Screw M6x10mm	3



KL-9001-313

Jaw Set, Mercedes

Suitable for Mercedes C-Class (W204) and GLK (X204).

Designed to compress and decompress front springs.

Scope of Delivery:

KL-9001-313 Jaw Set Mercedes

Part No.	Description	Qty
KL-9001-3134	Ring Jaw, with Clamping Device	1
KL-9001-3131	Adaptor Ring, Mercedes W204	1
KL-9001-3132	Adaptor Ring, Mercedes X204	1
KL-9001-1810	Jaw, Size 2A, Extended Design	1
KL-9001-2201	Protective Insert, Size 2	1



KL-9001-92

Jaw Set for Mercedes

Suitable for Mercedes C-Class (W203), CLK (W209).

Designed to compress and decompress front springs.

Scope of Delivery:

KL-9001-92 Jaw Set for Mercedes

Part No.	Description	Qty
KL-9001-3100	Ring Jaw	1
KL-9001-3110	Adaptor Ring, Mercedes W203	1
KL-9001-1810 SP	Jaw, Size 2A, Extended Design, with Protective Insert	1

KL-9001-314

Jaw Set, Mercedes

Suitable for Mercedes E-Class (W212).

Designed to compress and decompress front springs.

Scope of Delivery:

KL-9001-314 Jaw Set Mercedes

Part No.	Description	Qty
KL-9001-3100	Ring Jaw	1
KL-9001-3140	Adaptor Ring, Mercedes W212	1
KL-9001-1810 SP	Jaw, Size 2A, Extended Design with Protective Insert	1



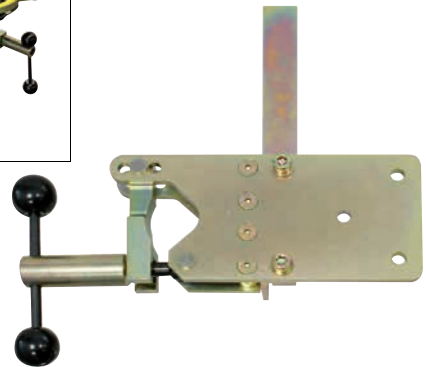
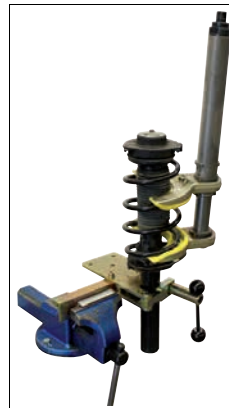
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KL-0055-60

Holding Fixture for Suspension Struts

Suitable for MacPherson suspension struts, shock-absorbers and steering systems.

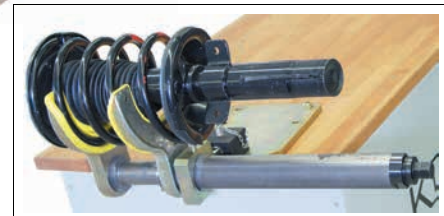
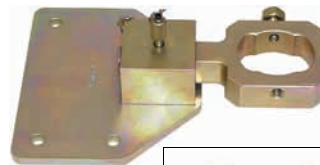
This holding fixture can either be screw-fitted to a workbench or clamped into a vice, thus enabling quick, safe and professional repairs to be carried out. Strut axes should NOT be clamped directly into a vice for assembly work (risk of deformation).



KL-9055-1

Holding Fixture

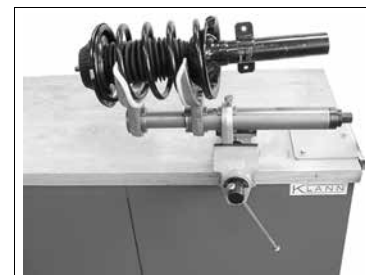
Holding fixture specifically designed for the spring compressors **KL-9002** and **KL-9001**. The holder can rotate through 360° thus allowing struts to be clamped horizontally as well as vertically.



KL-9055-2

Holding Fixture

Holding fixture specifically designed for the spring compressors **KL-9002** and **KL-9001**.



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KL-0015

Universal Spring Compressor

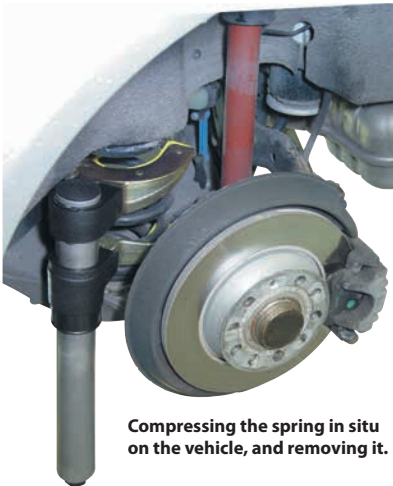
- ☑ Universally suitable, for example, for MacPherson strut/semi-strut designs.
- ☑ Preferred tool of the world's leading car manufacturers.
- ☑ Self-Locking-Mechanism of the mobile jaw-mount, ensures spindle is pressure-free whilst compressing the spring.
- ☑ All components are available as spare parts.
- ☑ Hardened cylinder tube.
- ☑ High-quality product made in Germany.
- ☑ Maximum Load Capacity 17,500N.
- ☑ Also suitable for compressing conical and barrel springs by using the adaptor KL-1590-1.
- ☑ A wide range of jaws for various applications is available on demand.
- ☑ Interchangeable plastic protective inserts to prevent damage to the spring surface are available on demand.



KL-0015

Universal Spring Compressor

1



Compressing the spring in situ on the vehicle, and removing it.

Compressing the spring via the upper spring plate.



Compressing the spring via the upper spring plate.



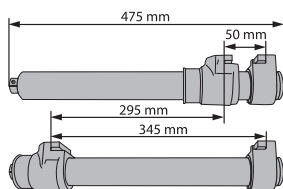
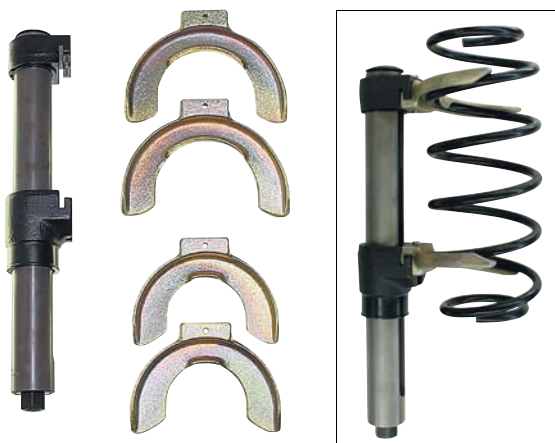
Compressing and decompressing conical springs in conjunction with KL-1590-1.



Changing a shock absorber and adjusting the upper spring plate in conjunction with KL-0255 and KL-0255-10.



1



Application Video

KL-0015

(Universal)

Spring Compressor

Universally suitable for strut suspensions. Comes with pairs of jaws size 1N and 2N for spring Ø of from 80-195mm.

Advantages:

- Self-locking mechanism of the sliding jaw mount.
- Also applicable to conical springs. • Plastic protective inserts (available as accessory).

Technical Data:

Span width (distance between jaws):	min. 50mm / max. 345mm
Working travel:	295mm
Overall length:	475mm
Drive:	27mm
Maximum load:	17,500N
Breaking point:	70,000N

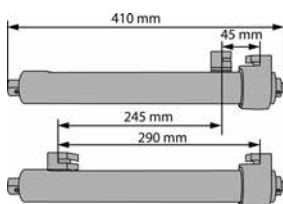
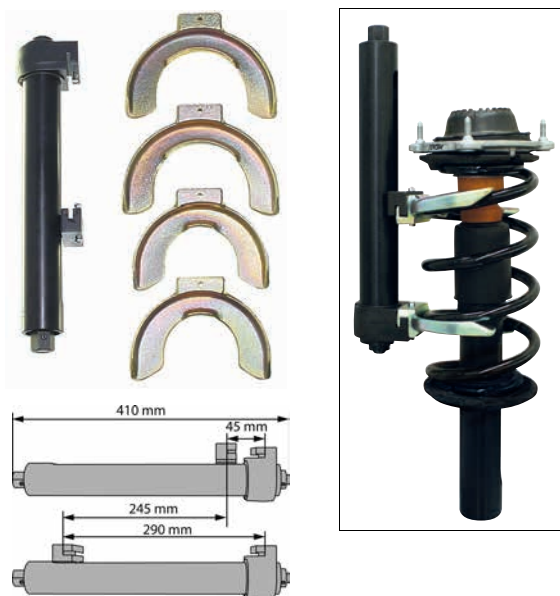
Note: Additional jaws for spring Ø of from 70-240mm are available as accessories.

Scope of Delivery: KL-0015 Spring Compressor

Part No.	Description	Qty
KL-0015-100	Compressor Base Body	1
KL-1510	Pair of Jaws, Size 1N	1
KL-1520	Pair of Jaws, Size 2N	1

KL-0015 SP Spring Compressor (not shown)

Like the **KL-0015** however, with pairs of jaws with protective inserts.



KL-2000

(Universal)

Spring Compressor

Suitable for McPherson-type suspension struts. Comes with jaws in size 1N and 2N.

The **KL-2000** spring compressor comes with the pairs of jaws **KL-1510** (size 1N) and **KL-1520** (size 2N), thus allowing the user to professionally remove/install right-hand wound coil springs (with a spring-Ø of 70-240mm*) and shock absorbers on passenger car chassis systems.

* in conjunction with jaws available as accessories.

Advantages:

- Load guided in cylinder tube.
- Hardened cylinder tube.

Technical Data:

Jaw opening:	45-290mm
Working travel:	245mm
Overall length:	410mm
Drive:	reversible ratchet
Max. load:	8,500N
Breaking point:	32,000N
Weight:	8.6kg

Scope of Delivery: KL-2000 Spring Compressor

Part No.	Description	Qty
KL-2000-100	Base Body	1
KL-1510	Pair of Jaws, Size 1N	1
KL-1520	Pair of Jaws, Size 2N	1

KL-2000 SP Spring Compressor (not shown)

Like the **KL-2000**, but supplied with pairs of jaws with protective inserts.

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-1502-SP Pair of jaws size Gr. 0C with protective inserts

Like the **KL-1502**, however, supplied with plastic protective inserts.

KL-1502

Pair of Jaws, Size 0C

Universally suitable.

The jaws are designed to be used in conjunction with the spring compressors **KL-0015**, **KL-0013**, **KL-0014** and **KL-2000**.

Technical Data:

For spring-Ø:	70-110mm
Weight (Pair):	1.1kg

KL-1510

Pair of Jaws, Size 1N

Universal application.

These jaws are designed to be used in conjunction with the spring compressors **KL-0015, KL-0013, KL-0014 and KL-2000**.

Technical Data:

For spring Ø:	80-165mm
Weight (Pair):	1.9kg



KL-1510-SP Pair of jaws size 1N with protective inserts

Like the **KL-1510**, however, supplied with plastic protective inserts.

KL-1520

Pair of Jaws, Size 2N

Universal application.

The jaws are designed to be used in conjunction with the spring compressors **KL-0015, KL-0013, KL-0014 and KL-2000**.

Technical Data:

For spring Ø:	155-195mm
Weight (Pair):	1.9kg



KL-1520-SP Pair of jaws Size 2N with protective inserts

Like the **KL-1520**, however, supplied with plastic protective inserts.

KL-1530

Pair of Jaws, Size 3N

Universal application.

The jaws are designed to be used in conjunction with the spring compressors **KL-0015, KL-0013, KL-0014 and KL-2000**.

Technical Data:

For spring Ø:	180-240mm
Weight (Pair):	3.0kg



KL-1525-SP

Jaw with Protective Insert, Size 2B

Applicable to BMW 3 Series E46, BMW 5 Series E39.

The jaw is designed to be used in conjunction with the spring compressors **KL-0015, KL-0013, KL-0014 and KL-2000**.

Technical Data:

For spring Ø:	155-195mm
Weight (Piece):	0.9kg



KL-1512

Pair of Jaws, Size 1A

Applicable to Audi A4 front axle, Audi A8 rear axle, Porsche, Saab 90/900, Chrysler, Opel/Vauxhall etc.

The jaws are designed to be used in conjunction with the spring compressors **KL-0015, KL-0013, KL-0014 and KL-2000**.

Technical Data:

For spring Ø:	80-150mm
Gewicht (Paar):	1.9kg



KL-1512-SP Pair of jaws Size 1A with protective inserts

Like the **KL-1512**; however, supplied with plastic protective inserts.

1



KL-1514-SP Pair of jaws Size 1B with protective inserts
Like the **KL-1514**; however, supplied with plastic protective inserts.

KL-1514

Pair of Jaws, Size 1B

Suitable for Audi A8 front axle.

The jaws are designed to be used with the spring compressors **KL-0015**, **KL-0013**, **KL-0014** and **KL-2000**.

Technical Data:

For spring Ø:	85-150mm
Weight (Pair):	2.0kg



KL-1516-SP

Pair of Jaws with Protective Inserts, Size 1C

Suitable for Audi A4 (model 2001 onwards) rear axle wishbone.

These jaws allow the removal and installation of rear axle springs to be performed within just a few minutes without having to loosen the wishbone or lower the axle. This technique eliminates the need for performing a wheel alignment after springs have been removed/installed.

Technical Data:

For spring Ø:	80-150mm
Weight:	1.9kg



KL-1518-SP

Pair of Jaws with Protective Inserts, Size 1D

Suitable for Volvo XC 90 (model 2015 onwards), front axle.

The jaws are designed to be used in conjunction with the **KL-0013**, **KL-0014**, **KL-0015** and **KL-2000** spring compressors.

Technical Data:

For spring Ø:	85-110mm
Weight:	1.9kg



KL-1550

Pair of Jaws, Size 5

Suitable for Citroën C 15 rear axle, Peugeot 305 Break rear axle.

The jaws are designed to be used with the spring compressors **KL-0015**, **KL-0013**, **KL-0014** and **KL-2000**.

Technical Data:

Weight (Pair):	2.3kg
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Scope of Delivery: KL-1550 Pair of Jaws Size 5

Part No.	Description	Qty
KL-1551	Jaw, Size 5A	1
KL-1553	Jaw, Size 5B	1



KL-1561

Jaw, Size 6

Suitable for Ford Probe, Mazda 323, 626, MX6, Mitsubishi-Galant with electronically-pneumatically controlled strut, Peugeot 206.

The jaw is designed to be used with the spring compressors **KL-0015**, **KL-0013**, **KL-0014** and **KL-2000**.

Technical Data:

Special recess:	110mm
Inner Ø:	180mm
Weight (Piece):	1.3kg

KL-1571

Ring Jaw, BMW 8 Series

Suitable for BMW 8 Series E31 and, if used in conjunction with the adaptor ring KL-9001-1910, also suitable for BMW 3 Series E46 (models 1998 onwards), BMW 5 Series E39 (models 1995 onwards).

The jaw is designed to be used with the spring compressors KL-0015, KL-0013, KL-0014 and KL-2000.

Technical Data:

Recess-Ø:	139mm
Inner-Ø:	165mm
Weight (Piece):	2.3kg



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KL-1581-R

Ring Jaw for Renault

Suitable for Renault Laguna and Safrane, Hyundai, and in conjunction with jaw size 3 also for Lancia Gamma.

The jaw is designed to be used with the spring compressors KL-0015, KL-0013, KL-0014 and KL-2000.

Technical Data:

Special recess:	162mm
Inner-Ø:	238mm
Weight (Piece):	2.5kg



KL-1502-S

Pair of Protective Inserts Size OC

Designed to be used with the pair of jaws KL-1502.

6 grooved nails KL-9001-2002 included.



KL-1512-S

Pair of Protective Inserts, Size 1A

Suitable for the pair of jaws KL-1512.



KL-1514-S

Pair of Protective Inserts, Size 1B

Suitable for the pair of jaws KL-1514.



KL-1510-S

Pair of Protective Inserts, Size 1N

Suitable for the pair of jaws KL-1510.



KL-1520-S

Pair of Protective Inserts Size 2N

Suitable for the pair of jaws KL-1520.



KL-1521-S

Protective Insert, Size 2N

Suitable for the jaw KL-1525.



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KL-1540

Jaw Set, (4-piece set), Size 4

Suitable for VW Golf, Bora vehicles equipped with 4-wheel drive (4 Motion).

These specially shaped jaws are indispensable for the removal and installation of rear axle suspension coil springs.

Advantages:

- No need to lower the rear axle.
- No need for an additional wheel alignment.
- No need to loosen the shock absorber and drive shaft.

Scope of Delivery: KL-1540 Set of Jaws (4 pieces) Size 4

Part No.	Description	Qty
KL-1541	Jaw, Size 4, bottom left	1
KL-1543	Jaw, Size 4, top left	1
KL-1545	Jaw, Size 4, bottom right	1
KL-1547	Jaw, Size 4, top right	1



KL-1570-1

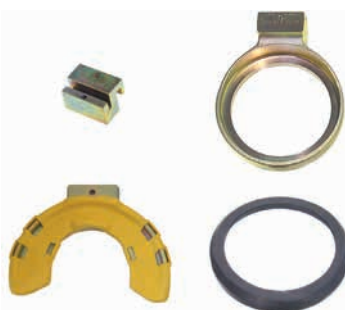
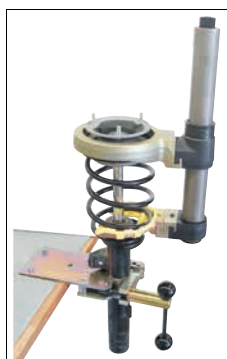
Jaw Set, BMW

Suitable for BMW E46 (3-Series 1998 onwards), E39 (5-Series 1995 onwards).

The **KL-1570-1** jaw set is designed to compress front springs. Set is used in conjunction with ring jaw **KL-1571**.

Scope of Delivery: KL-1570-1 Jaw Set, BMW

Part No.	Description	Spring-Ø
KL-1525	Jaw, Size 2B	155-195mm
KL-1521-S	Protective Insert, Size 2N	155-195mm
KL-1575	Adaptor Ring, BMW E46	160mm



KL-1579-2

Jaw Set, BMW E90

Suitable for BMW E87 / E90 / E91 / E92 / E93, front axle.

For removing and installing front axle coil springs.

Scope of Delivery: KL-1579-2 Jaw Set, BMW E90

Part No	Description
KL-1511-SP	Jaw with protective insert size 1N
KL-1590-1	Adaptor for conical springs
KL-1579-1	Ring jaw with adaptor ring BMW E90 (Consists of ring jaw KL-1571 and adaptor ring KL-1579)

KL-1579-1

Ring Jaw with Adaptor Ring BMW E90

Suitable for BMW E90 / E91 / E92 / E93, front axle.

Designed to remove and install front springs. Used in conjunction with spring compressor **KL-0015**.

Technical Data:

Recess-Ø:	139mm
Inner-Ø:	165mm

Scope of Delivery: KL-1579-1 Ring Jaw with Adaptor Ring BMW E90

Part No.	Description	Qty
KL-1571	Ring Jaw, BMW 8-Series	1
KL-1579	Adaptor Ring BMW E90	1

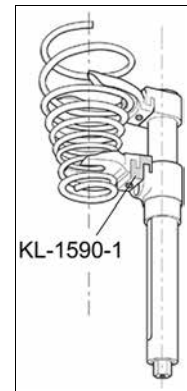
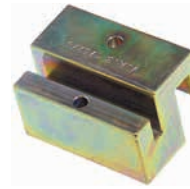


KL-1590-1

Adaptor for Conical Springs

Suitable for Alfa Romeo, Chrysler, Nissan, Seat Arosa, VW Lupo etc.

Used to extend jaws for distance compensation.



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KL-1590-2

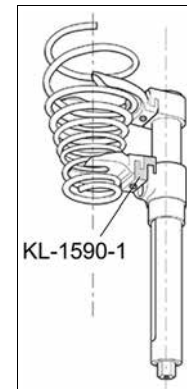
Adaptor Set

Used to extend the jaws, for example, when compressing the rear axle spring on VW Lupo, or barrel springs. (consists of 2 x **KL-1590-1**).

Scope of Delivery:

KL-1590-2 Adaptor Set

Part No.	Description	Qty
KL-1590-1	Adaptor for Conical Springs	2



KL-0055-50

Holding Fixture for Suspension Struts

Suitable for MacPherson suspension struts, shock-absorbers and steering systems.

The holding fixture is screwed into position on the workbench thus enabling a quick, safe and professional repair to be carried out.

Strut axles should NOT be clamped into a vice for assembly work (risk of deformation).



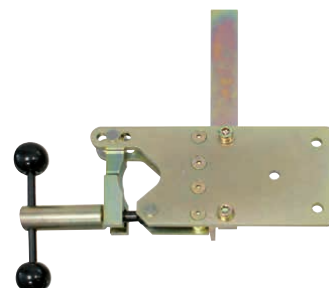
KL-0055-60

Holding Fixture for Suspension Struts

Suitable for MacPherson suspension struts, shock-absorbers and steering systems.

This holding fixture can either be screw-fitted to a workbench or clamped into a vice, thus enabling quick, safe and professional repairs to be carried out.

Strut axles should NOT be clamped directly into a vice for assembly work (risk of deformation).



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KL-0025-1 K

(Patented)

Spring Compressor, with Pressure Plates in Size 1 + 2, in a Storage Case

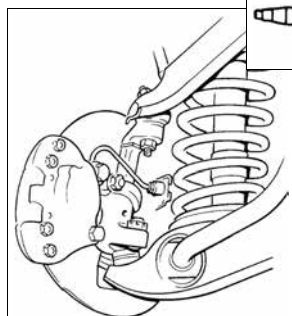
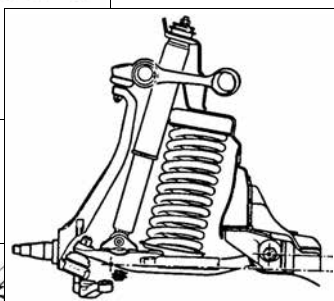
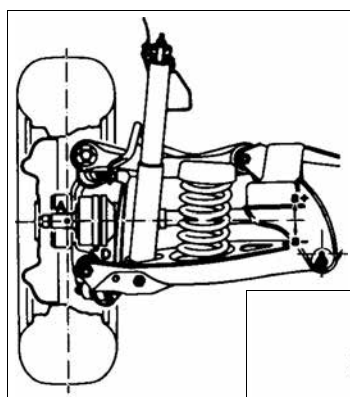
For wishbone and multi-link independent suspensions; comes with pairs of pressure plates in size 1 and 2. Suitable for Mercedes 190 (W201), C-Class (W202), CLK (W208), E-Class (W210), S-Class (W140), SL (R129), SLK (R170), W116, W123, W124, and W126 front and rear axle. Ford, GM, Chrysler, VW T2 and LT, Fiat, Hummer, Mazda, Toyota, Nissan, Mitsubishi, Renault, Peugeot, Volvo, etc.

This universal telescopic safety spring compressor equipped with a 3-point safety interlock mechanism, an anti-rotation profile to prevent pressure plate distortion, and a spindle overload protection is unrivalled in its class.

It enables the user to quickly and safely remove and install coil springs on wishbone and multi-link independent suspensions without having to dismantle the axle (exceptions possible). This provides the user with a high level of safety and, at the same time, a substantial job time saving of 1-2 hours.

Advantages:

- The 3-point safety interlock mechanism enables the compression of a spring only when the piston has been locked correctly in the pressure plate. Thus, the risk of accidents due to wrong interlocking are eliminated.
- The automatic freewheel ensures that the spindle is freewheeling once the maximum opening width has been reached, thus preventing any pressure on the limits stops of the spring compressor.
- All critical components such as pressure plates, piston, intermediate tube, and housing are interlocked to one another. This safety feature eliminates the risk of a compressed spring unwinding itself.
- All critical components are drop-forged and highly annealed.
- The spring compressor has been tested and approved by the German BG (German Employer's Liability Insurance Association) and by Mercedes.
- Due to its special telescopic design, the length of the tool changes while compressing a spring. This feature very often enables coil springs to be replaced without the need to dismantle the axle. Time savings of between 1/2 and 2 hours per spring can so be achieved.
- Universal field of application thanks to a wide range of pressure plates available as accessories.



Technical Data:

Max. load:	30,000N
Span width (Jaw opening):	110-317mm
Working travel:	207mm
Overall length:	263mm
Drive:	19mm (waf) hex
Breaking point:	120,000N
Weight:	1.5kg

Scope of Delivery: KL-0025-1 K Spring Compressor, with Pressure Plates in Size 1+2

Part no.	Description	Qty
KL-0025-100	Base body (long design)	1
KL-0025-11	Pair of pressure plates size 1	1
KL-0025-12	Pair of pressure plates size 2	1
KL-0025-2090	Plastic storage case	1

KL-0025-1

(Patented)

Spring Compressor, with Pressure Plates in Size 1+2

Scope of Delivery: KL-0025-1 Spring Compressor, with Pressure Plates in Size 1+2

Part no.	Description	Qty
KL-0025-100	Compressor Base Body (long design)	1
KL-0025-11	Pressure Plates, Size 1	1
KL-0025-12	Pressure Plates, Size 2	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-0021 K (Patented) Spring Compressor, in a Storage Case

For wishbone and multi-link independent suspensions. Supplied with pairs of pressure plates in size 1 and 2. Fits Mercedes 190 (W201), C-Class (W202), CLK (W208), E-Class (W210), S-Class (W140), SL (R129), SLK (R170), W116, W123, W124, and W126 front and rear axle. Ford, GM, Chrysler, VW T2 and LT, Fiat, Hummer, Mazda, Toyota, Nissan, Mitsubishi, Renault, Peugeot, Volvo, etc.

This universal telescopic safety spring compressor featuring a 3-Point Interlock Mechanism and an anti-rotation profile designed to prevent pressure plate distortion, enables the quick and safe removal and installation of coil springs on wishbone and multi-link independent suspensions without the need for dismantling the axle (exceptions are possible). This provides the user with a high level of safety as well as job time savings of 1-2 hours.

Advantages:

- 3-Point Safety Interlock Mechanism
- Automatic freewheel
- Anti-rotation profile

Scope of Delivery: KL-0021 K Spring Compressor, in a Storage Case

Part No.	Description	Qty
KL-0021	Spring Compressor	1
KL-0025-2090	Plastic Storage Case	1

Scope of Delivery: KL-0021 Spring Compressor

Part no.	Description	Qty
KL-0021-100	Compressor Base Body	1
KL-0025-1101	Pressure Plate with Lock, Size 1	1
KL-0025-1102	Pressure Plate with Anti-Rotation Profile, Size 1	1
KL-0025-1201	Pressure Plate with Lock, Size 2	1
KL-0025-1202	Pressure Plate with Anti-Rotation Profile, Size 2	1

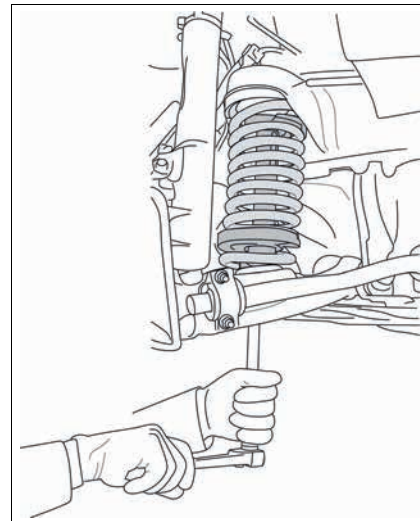
Technical Data:

Max. load capacity:	30,000N
Span width (Jaw opening):	110-317mm
Working travel:	207mm
Overall length:	262.5mm
Drive:	Size (waf) 19mm hex
Breaking point:	120,000N
Weight:	1.5kg

Accessories: KL-0025-16 Pair of Pressure Plates
Suitable for Mercedes W211 (E-Class) rear axle.



Application Video



KL-0021-2 K (Patented) Spring Compressor, in a Storage Case for MODULO

For field of application, please refer to KL-0021 K.

Scope of Delivery: KL-0021-2 K Spring Compressor, in a Storage Case

Part No.	Description	Qty
KL-0021 E	Spring Compressor, in a Foam Insert	1
KL-4999-1396	Plastic Storage Case for MODULO	1

Scope of Delivery: KL-0021 E Spring Compressor, in a Foam Insert

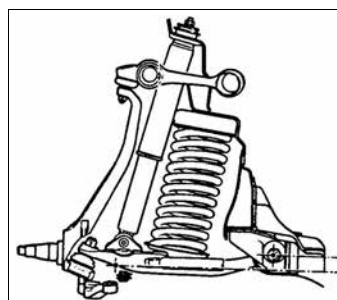
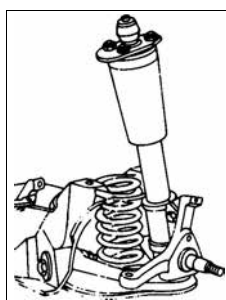
Part No.	Description	Qty
KL-0021	Spring Compressor	1
KL-4999-1323	Foam Insert	1

Scope of Delivery: KL-0021 Spring Compressor

Part no.	Description	Qty
KL-0021-100	Compressor Base Body	1
KL-0025-1101	Pressure Plate with Lock, Size 1	1
KL-0025-1102	Pressure Plate with Anti-Rotation Profile, Size 1	1
KL-0025-1201	Pressure Plate with Lock, Size 2	1
KL-0025-1202	Pressure Plate with Anti-Rotation Profile, Size 2	1



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KL-0025-2

(Patented)

Spring Compressor (Short Design) with Pressure Plates in Size 1 + 2

Suitable for Chrysler, Mercedes C-Class (W202), CLK (W208), E-Class (W210, W211), S-Class (W140), SL (R107, R129, R170), W114, W115, W116, W123, W124, W126 and W201 rear axle springs. Also applicable to BMW 1 Series (E87) and 3 Series (E90) if used with the pair of pressure plates KL-0025-16.

Allows the removal of rear axle springs in very confined spaces without having to lower the rear sub-frame.

Advantages:

- Automatic 3-point safety interlock mechanism
- Automatic freewheel at end of stroke
- Anti-rotation profile
- Spindle overload protection

Technical Data:

Max. load capacity:	30,000N
Span width (Jaw opening):	110-287mm
Working travel:	177mm
Overall length:	233mm
Drive:	Size (waf) 19mm hex
Breaking point:	120,000N
Weight:	1.3kg

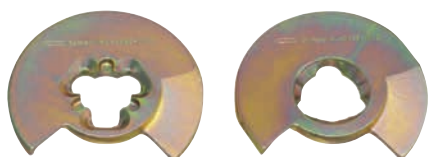
Scope of Delivery:

KL-0025-2 Spring Compressor (Short Design) with Pressure Plates in Size 1 + 2

Part no.	Description	Qty
KL-0025-200	Compressor Base Body (short design)	1
KL-0025-11	Pair of Pressure Plates, Size 1	1
KL-0025-12	Pair of Pressure Plates, Size 2	1

KL-0025-11

Pair of Pressure Plates, Size 1



Suitable for Mercedes 190 (W201), C-Class (W202), SL (R129), W116, W123, W124, front spring; 190 (W201), C-Class (W202), SL (R129), W124; 4-Matic rear spring; Saab; Skoda; Ford; etc.

With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

Technical Data:

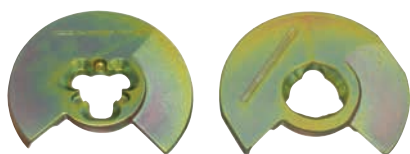
Compression range:	Spring Ø: 95-120mm; incline to: 240° = 6mm
Weight:	1.3kg

Scope of Delivery: KL-0025-11 Pair of Pressure Plates, Size 1

Part No.	Description	Qty
KL-0025-1101	Pressure Plate with Interlock Mechanism, Size 1	1
KL-0025-1102	Pressure Plate with Anti-Rotation Profile, Size 1	1

KL-0025-12

Pair of Pressure Plates, Size 2



Suitable for Mercedes S-Class (W140) and W126 front spring, S-Class (W140), SL (R107), W114, W115, W116, W123 und W126 rear spring; Opel/Vauxhall; GM; Lada; Peugeot; Rover; Hyundai; Saab; Volvo; VW T2; Ford Taunus; Mitsubishi; etc.

With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

Technical Data:

Compression range:	Spring Ø: 20-140mm; incline to: 240° = 6mm
Weight:	1.8kg

Scope of Delivery: KL-0025-12 Pair of Pressure Plates, Size 2

Part No.	Description	Qty
KL-0025-1201	Pressure Plate with Interlock Mechanism, Size 2	1
KL-0025-1202	Pressure Plate with Anti-Rotation Profile, Size 2	1

KL-0025-13

Pair of Pressure Plates, Size 3

Universal application.

With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

Technical Data:

Compression range:	Spring Ø: 100-155mm; incline to: 240° = 20mm
Weight:	2.1kg



Scope of Delivery: KL-0025-13 Pair of Pressure Plates, Size 3

Part No.	Description	Qty
KL-0025-1301	Pressure Plate, Size 3, with Interlock Mechanism	1
KL-0025-1302	Pressure Plate, Size 3, with Anti-Rotation Profile	1

KL-0025-14

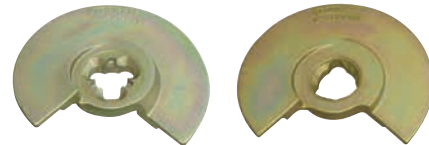
Pair of Pressure Plates, Size 4

Universal application.

With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

Technical Data:

Compression range:	Spring Ø: 155-190mm; incline to: 180° = 25/15mm
Weight:	2.3kg



Scope of Delivery: KL-0025-14 Pair of Pressure Plates, Size 4

Part No.	Description	Qty
KL-0025-1401	Pressure Plate, Size 4, with Interlock Mechanism	1
KL-0025-1402	Pressure Plate, Size 4, with Anti-Rotation Profile	1

KL-0025-15

Pair of Pressure Plates, Size 5

Suitable for Mercedes W124 4-Matic front axle.

With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

Technical Data:

Compression range:	Spring Ø: 110-130mm; incline to: 270° = 5mm
Weight:	1.8kg



Scope of Delivery: KL-0025-15 Pair of Pressure Plates, Size 5

Part No.	Description	Qty
KL-0025-1501	Pressure Plate, Size 5, with Interlock Mechanism	1
KL-0025-1502	Pressure Plate, size 5, with Anti-Rotation Profile	1

KL-0025-16

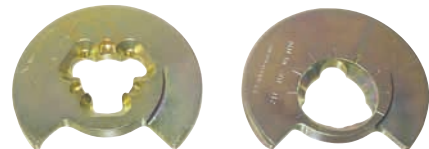
Pair of Pressure Plates, Size 0A

Suitable for Mercedes rear spring, for example: C-Class (W203 / W204), CLK (W209); E-Class (W211 4-matic / W212); BMW 1 Series (E87) and 3 Series (E90) rear axle.

With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

Technical Data:

Compression range:	Spring Ø: 95-110mm; incline to: 240° = 6mm
Weight:	1.1kg



Scope of Delivery: KL-0025-16 Pair of Pressure Plates, Size 0A

Part No.	Description	Qty
KL-0025-1601	Pressure Plate, Size 0A, with Interlock Mechanism	1
KL-0025-1602	Pressure Plate, Size 0A, with Anti-Rotation Profile	1

KL-0025-17

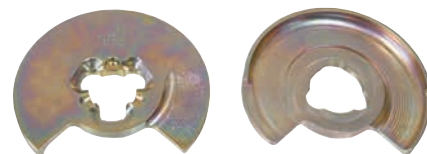
Pair of Pressure Plates, M-Class

Suitable for Mercedes rear axle M-Class (W164).

With anti-rotation profile to prevent the pressure plates from twisting - locks the pressure plates and prevents them from twisting during the compression process or when in a stressed position, thus eliminating the risk of a compressed spring unwinding itself out of the spring compressor.

Technical Data:

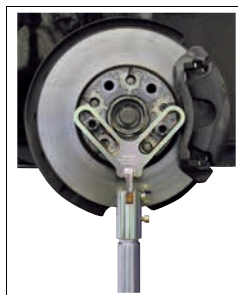
Compression range:	Spring Ø: 110-13 mm; incline to: 270° = 7mm
Weight:	1.9kg



Scope of Delivery: KL-0025-17 Pair of Pressure Plates, M-Class

Part No.	Description	Qty
KL-0025-1701	Pressure Plate, Size 1.5, with Interlock Mechanism	1
KL-0025-1702	Pressure Plate, Size 1.5, with Anti-Rotation Profile	1

1



KL-0145-120 A

Supporting Device for Control Arm

Universal application.

The device is used in conjunction with a transmission jack for supporting control arms. The support takes place via the wheel hub, thus, ensuring the correct raising and lowering of control arms/axles to specified positions.

An indispensable tool when removing and installing a suspension strut.



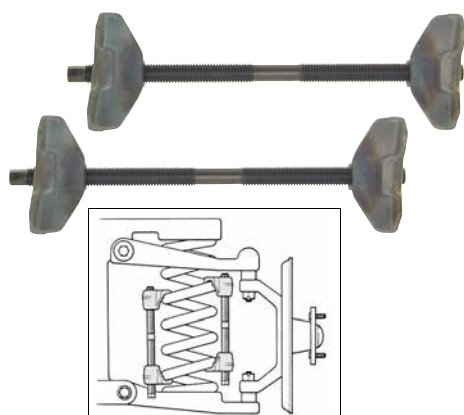
KL-0040-2588

Adaptor Sleeve, VW, Ø 36mm

This adaptor is needed to use the retaining devices **KL-0040-258 A** and **KL-0040-288**, and the **KL-0145-120** supporting device in conjunction with the VW transmission jacks having a retaining Ø of 36mm.

Technical Data:

Pin Ø:	30mm
Retaining Ø:	36mm



KL-0005

[Universal]

Spring Compressor

Universally suitable for use on springs in which the spring pressure does not exceed 8,000N.

The spindles feature contra-rotating threads which eliminate the risk of slipping. (Not suitable for use on Mercedes springs.)

Note: Two-part spring compressors without a safety loop are not authorized for use in workshops.

Technical Data:

Max. load.:	8,000N
Span width (Jaw opening):	65-320mm

Accessories:

KL-0005-1 Pair of spindles for level-lift suspensions (not shown)



KL-0006-2

[Universal]

Spring Compressor

Allows compressing the spring in-situ on the vehicle, so that the strut can be removed without dismantling the steering knuckle/ stub axle. This is important on the front axle of **VW** vehicles and on the rear axle of **Ford Mondeo**, etc.

Especially suitable for:

- Suspension strut mount replacement, e.g. **VW Golf (IV)**.
Thanks to the spring compressor **KL-0006-2**, the suspension strut mount bearing can be replaced in situ on the vehicle within a few minutes without having to remove and re-install the suspension strut. Expenditure of time about 15 minutes; Time savings about 1 hour.
- Spring and shock absorber unit removal and installation, e.g. **VW Golf (IV)**
By using the spring compressor **KL-0006-2**, springs can be pre-compressed in situ on the vehicle without having to remove the steering knuckle/ stub axle. Spreader tool **KL-0104-21-1 A** is used to widen strut clamping bores, thus allowing the spring/shock absorber unit to be easily removed from the clamping bore hole.

Expenditure of time about 10 minutes; Time savings about 30 minutes.

The spindles are equipped with contra-rotating threads which eliminate the risk of slipping round the spring. (Not suitable for use on Mercedes springs.)

Note: Use a spring compressor such as the **KL-9002** or **KL-5501** to remove the spring from the vehicle. Two-part spring compressors without safety loop are not authorized for use in workshops.

Technical Data:

Max. load capacity:	8,000N
Jaw opening:	65-200mm

KL-0006

(Universal)

Spring Compressor, Ford, Mercedes

Suitable for Ford and Mercedes.

For replacement of self-levelling shock absorbers, particularly useful on rear axles.

Advantages:

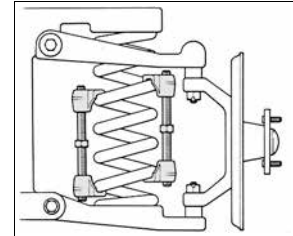
- Spindle features a contra-rotating thread to eliminate the risk of slipping.
- Hex drive located in the centre of the spindle allows for use in confined spaces where other spring compressors cannot be used.

Note:

Two-part spring compressors without safety loop are not authorized for use in workshops.

Technical Data:

Max. load.:	8,000N
Jaw opening:	85-170mm



1

KL-0056-10 K

Shock Absorber Piston Rod Tool Set, in a Storage Case

Universal application.

Indispensable tool set designed to counter-hold the shock absorber piston rod while loosening or tightening the piston rod nut, e.g. on MacPherson suspension strut systems.

The foam insert of the **KL-4999-131..-Series** included in the kit allows for the safe and clearly arranged storage of the tool components.

Scope of Delivery:

KL-0056-10 K Shock Absorber Piston Rod Tool Set, in a Storage Case

Part No.	Description	Qty
KL-0056-10 E	Shock Absorber Piston Rod Tool Set in a Foam Insert	1
KL-4999-1394	Plastic Storage Case	1

Scope of Delivery:

KL-0056-10 E Shock Absorber Piston Rod Tool Set, in a Foam Insert

Part No.	Description	Qty
KL-0056-10	Shock Absorber Piston Rod Tool Set	1
KL-4999-1321	Foam Insert	1

Scope of Delivery:

KL-0056-10 Shock Absorber Piston Rod Tool Set

Part No.	Description	Qty
KL-0050-511	Shock Absorber Pin Wrench	1
KL-0050-5221	Special Hex Socket, (waf) 21mm, BMW	1
KL-0056-17	Special Hex Socket, (waf) 17mm	1
KL-0056-18	Special Hex Socket, (waf) 18mm	1
KL-0056-19	Special Hex Socket, (waf) 19mm	1
KL-0056-21	Special Hex Socket, (waf) 21mm	1
KL-0056-22	Special Hex Socket, (waf) 22mm	1
KL-0056-24	Special Hex Socket, (waf) 24mm	1
KL-0056-37	Insert Torx® T50	1
KL-0056-45	Hex Insert, (waf) 11mm	1
KL-0056-51	Hex Socket Insert, (waf) 6mm	1
KL-0056-52	Hex Socket Insert, (waf) 7mm	1
KL-0056-71	Insert, double flat, (waf) 5.2mm	1
KL-0056-72	Insert, double flat, (waf) 6mm	1
KL-0056-74	Insert, double flat, (waf) 7mm	1
KL-0056-75	Insert, double flat, (waf) 8mm	1
KL-0056-96	Insert, XZN-M12	1
KL-0050-0012	Strut Nut Socket with Pins, 10.5mm	1
KL-0050-0013	Strut Nut Socket with Pins, 12.5mm	1
KL-0050-0014	Strut Nut Socket with Pins, 14.5mm	1
KL-0050-0015	Strut Nut Socket with Pins, 14.5mm	1
KL-0050-51	Strut Nut Socket, Mercedes W203	1
1 B 10	Combination Spanner, 10mm	1
KL-4111-1922	Ratchet Ring Spanner, 19 and 22mm (waf)	1



1



KL-0056-100 K

Shock Absorber Piston Rod Tool Set

Universal application.

Indispensable tool set designed to counter-hold the shock absorber piston rod while loosening or tightening the piston rod nut, e.g. on MacPherson suspension strut systems.

Advantages:

- Enables quick, easy and professional loosening and tightening of the piston rod nut.
- THE ideal tool set for the professional shock absorber service, thanks to the special composition of the tool set.
- All components are separately available as spare parts.

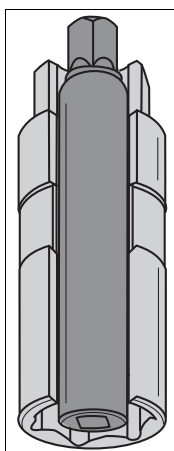
Scope of Delivery:

KL-0056-100 K Shock Absorber Piston Rod Tool Set

Part No.	Description	Qty
KL-0056-17	Special Hex Socket, Size (waf) 17mm	1
KL-0056-18	Special Hex Socket, Size (waf) 18mm	1
KL-0056-19	Special Hex Socket, Size (waf) 19mm	1
KL-0056-21	Special Hex Socket, Size (waf) 21mm	1
KL-0056-22	Special Hex Socket, Size (waf) 22mm	1
KL-0056-24	Special Hex Socket, Size (waf) 24mm	1
KL-0056-37	Insert, Torx® T50	1
KL-0056-45	Hex Insert, 11 mm (waf)	1
KL-0056-51	Hex Socket Insert, 6mm (waf)	1
KL-0056-52	Hex Socket Insert, 7mm (waf)	1
KL-0056-71	Insert, double flat, 5.2mm (waf)	1
KL-0056-72	Insert, double flat, 6mm (waf)	1
KL-0056-74	Insert, double flat, 7mm (waf)	1
KL-0056-75	Insert, double flat, 8mm (waf)	1
KL-0056-96	Insert, XZN-M12	1
KL-0050-0015	Strut Nut Socket with Pins, 14.5mm	1
KL-0050-51	Strut Nut Socket with Pins, Mercedes W203	1
1 B 10	Combination Spanner, 10mm	1
KL-4111-1922	Ratchet Ring Spanner, 19mm and 22mm (waf)	1
KL-0056-1090	Plastic Storage Case	1

* = reg. trademark of Acument Intellectual Properties, LLC. USA

XZN hex 2-flat Torx internal hex



KL-0056-35

Insert Torx® T40, Porsche/VW

Suitable for Porsche Cayenne, VW Touareg etc.

Designed to prevent the damper piston rod from rotating while loosening or tightening the damper piston rod nut. The insert is used with a special socket of the **KL-0056-... Series**, on MacPherson strut suspension systems for example.

* = reg. trademark of Acument Intellectual Properties, LLC. USA



KL-0056-43

Hex Insert, Size (waf) 9mm

Applicable to various Opel/Vauxhall vehicles.

Designed to prevent the damper piston rod from rotating while loosening or tightening the damper piston rod nut. The insert is used with a special socket of the **KL-0056-... Series**, on MacPherson strut suspension systems for example.



KL-0056-50

Hex Socket Insert, Size (waf) 5mm

Applicable to Nissan, Honda etc.

Designed to prevent the damper piston rod from rotating while loosening or tightening the damper piston rod nut. The insert is used with a special socket of the **KL-0056-... Series**, on MacPherson strut suspension systems for example.



KL-0250-1

Counter-Hold Tool

Suitable for VW-Audi, Ford, Opel/Vauxhall, Japanese cars, etc.

Designed to prevent the damper piston rod from rotating while removing and replacing the rear strut.

Technical Data:

Length:	182mm
Weight:	139g
2-point:	5 and 6mm



1

KL-0050-0070

Set of Nut Sockets with Pins (3-piece set)

2-pin nut sockets for shock absorber piston rod nut.

Scope of Delivery: KL-0050-0070 Set of Nut Sockets with Pins (3-piece set)

Part No.	Description	Bore	for
KL-0050-0012	Nut Socket with Pins	10.5mm	VW Golf rear axle
KL-0050-0013	Nut Socket with Pins	12.5mm	VW Polo front axle
KL-0050-0014	Nut Socket with Pins	14.5mm	Polo, Golf, Passat, Audi 80, Vento

Accessories:

KL-0050-0015	Nut Socket with Pins	14.5mm	Austin Maestro
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KL-0050-510

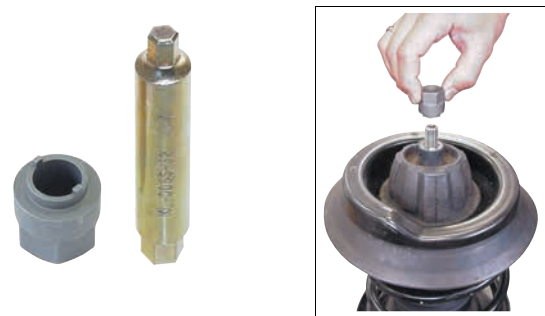
Shock Absorber Piston Rod Tool Set, Mercedes

Suitable for Mercedes C-Class (W203) and CLK (W209) front axle.

For loosening and tightening shock absorber piston rod nuts (groove nut).

Scope of Delivery: KL-0050-510 Shock Absorber Piston Rod Tool Set, Mercedes

Part No.	Description	Qty
KL-0050-51	Nut Socket with Pins, Mercedes W203	1
KL-0056-52	Insert, internal hex (waf) 7mm	1



KL-0050-511

Shock Absorber Pin Wrench, Mercedes

Suitable for Mercedes E-Class (W211) T-Model (estate car), rear axle.

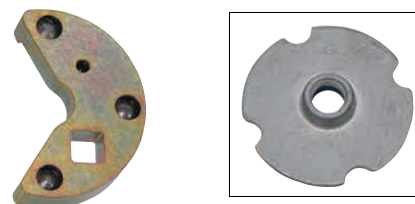
For loosening and tightening the piston rod fastening nut. The pin wrench **KL-0050-511** is designed to lock the upper mounting plate during the loosening process.

Technical Data:

Drive:	3/8"
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Scope of Delivery: KL-0050-511 Shock Absorber Pin Wrench

Part No.	Description	Qty
KL-0050-5110	Fixing Disc with Magnet	1
KL-0280-1104	Cylindric Pin, Ø 8x12mm	3



KL-0050-5221

Special Hex Socket, Size (waf) 21mm, BMW

Applicable to BMW vehicles, e.g. 1 Series (E87), 3 Series (E46, E90), 5 Series (E39, E60, E61), 6 Series (E63, E64), 7 Series (E38, E65, E66), X5 (E53), X3 (E83), Z8 (E52), Z4 (E85); Mini Cooper (R50, R52, R53) front axle.

The cut-out in the **KL-0050-5221** socket is designed to counterhold the piston rod when loosening and tightening the piston rod fastening nut. This feature prevents the piston rod from turning out of position and consequently the risk of damaging the actuator cable (front axle with EDC) is eliminated.

Technical Data:

Size (waf):	21mm
Drive:	19mm



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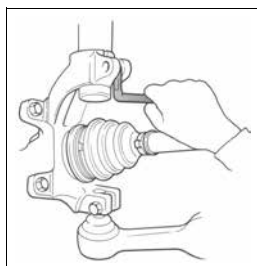
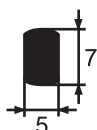


KL-0050-000..

Pulling T-Wrench, M12x1.25, BMW

Pulling T-Wrench for shock absorber piston rod.

Part No.	Description
KL-0050-0001	Pulling T-Wrench, M12x1,25 BMW
KL-0050-0002	Pulling T-Wrench, M15x1,5 GM / Opel/Vauxhall
KL-0050-0003	Pulling T-Wrench, M12x1,5 Audi
KL-0050-0005	Pulling T-Wrench, M10x1 Renault
KL-0050-0006	Pulling T-Wrench, M14x1,5 VW-Audi, Opel/Vauxhall
KL-0050-0007	Pulling T-Wrench, M10x1,5 BMW



KL-0101

Spreader Bar for Suspension Strut Mounting

Suitable for Ford, VW-Audi, Peugeot, Renault, Citroën, Japanese passenger cars, etc.

This tool is designed to open out steering knuckle clamping bores for the suspension strut mountings. NEVER use a chisel or screwdriver for this work!

Technical Data:

Length:	205mm
Width:	5mm
Widening dimension:	7mm
Weight:	65g



KL-0101-1

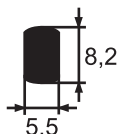
Spreader Socket, Size (waf) 5mm

Suitable for strut clamping bores, e.g. on VW-Audi, BMW, Citroën, Ford, Seat, Škoda, Renault, Peugeot, Japanese vehicles, etc.

The spreader socket **KL-0101-1** is designed to widen clamping bores. This procedure is essential for the professional removal of tight-fitting/stuck suspension strut-/damper units from steering knuckle clamping bores. As a result, shock absorber units can easily be removed and installed. Hammer and chisel are no longer required.

Technical Data:

Drive:	1/2"
Length:	60mm
Width:	5mm
Widening dimension:	7mm
Weight:	75g



KL-0101-2

Spreader Socket, Size (waf) 5.5mm

Suitable for strut clamping bores; e.g. on VW-Audi Golf (IV), TT, BMW, Citroën, Ford, Seat, Škoda, Renault, Peugeot, Japanese vehicles, etc.

The spreader socket **KL-0101-2** is designed to widen clamping bores. This procedure is essential for the professional removal of tight-fitting/stuck suspension strut-/damper units from steering knuckle clamping bores. As a result, shock absorber units can easily be removed and installed. Hammer and chisel are no longer required.

Technical Data:

Drive:	1/2"
Length:	50mm
Width:	5.5mm
Widening dimension:	8.2mm
Weight:	75g

KL-0104-21-1 A Spreader Tool Kit with Wedge No.1 and No.2

(Patented)

Suitable for strut clamping bores as found on Audi: A3 (8P, 8V), VW: Golf (IV - VII), Passat (3C, 362, 365), BMW, Citroën, Ford, Mercedes: Vito, V-Class, Seat, Škoda, Renault, Peugeot, Japanese vehicles etc.

The **KL-0104-21-1 A** spreader tool is designed to widen strut clamping bores. This procedure is essential for the professional removal of tight-fitting or stuck spring/shock absorber units. As a result, shock absorber units can easily be removed and installed without the risk of damaging the cast iron or aluminium steering knuckle. Thanks to its variably adjustable spreading head, the tool is ideal for use on steering knuckles with a non-centralised slot as found on VW-Audi, Ford etc.

Due to its dimension and special shape, the interchangeable wedge of the spreading head is particularly suitable for aluminium steering knuckles. The wedge is provided with a limit stop to avoid excessive knuckle widening.

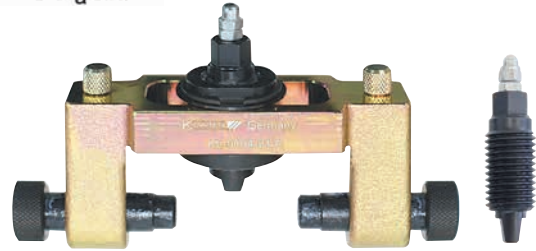
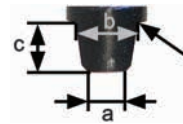
The float-mounted bolts prevent the tool from jamming during knuckle widening.

Technical Data:

Clamping bore width (max.):	75mm
Dimensions (wedge No.1):	a.: 5.8mm; b.: 8.5mm; c.: 4.5mm
Dimensions (wedge No.2):	a.: 4.5mm; b.: 8mm; c.: 10mm
Weight:	900g

Scope of Delivery: KL-0104-21-1 A Spreader Tool Kit with Wedge No.1 and No.2

Part No.	Description	Qty
KL-0104-21 A	Spreader Tool (adjustable) with Wedge No.1	1
KL-0104-2122	Pressure Screw with Wedge No.2	1



KL-0104-211 Spreader Tool Upgrade Kit, VW T5

(Patented)

Suitable for VW T5, front axle

The **KL-0104-211** upgrade kit is used in conjunction with the **KL-0104-21-1 A** spreader tool kit to widen strut clamping bores. This procedure is essential for the professional removal of tight-fitting or stuck spring/shock absorber units from steering knuckles.

As a result, shock absorber units can easily be removed and installed without the risk of damaging the cast iron or aluminium steering knuckle.

Scope of Delivery: KL-0104-211 Spreader Tool Upgrade Kit, VW T5

Part No.	Description	Qty
KL-0104-2123	Pressure Screw with Wedge No. 3	1
KL-0104-2111	Bolt, Ø 10mm for thread bore	1



KL-0104-2124 Pressure Screw with Wedge No. 4

(Patented)

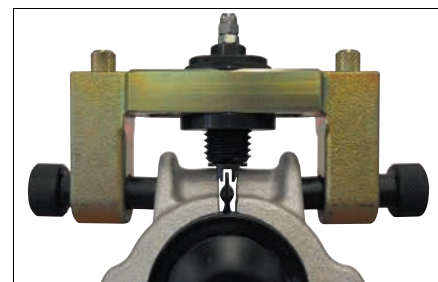
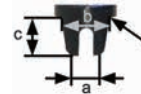
Suitable for the strut clamping bores found on Audi TT (8S).

In conjunction with the **KL-0104-21-1 A** spreader tool, the pressure screw is used to widen strut clamping bores. This procedure is essential for the professional removal of spring/shock absorber units.

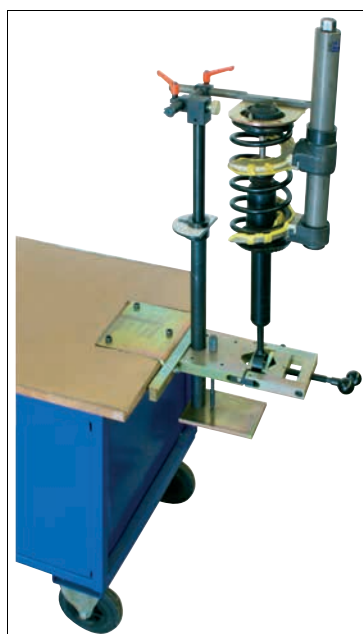
The special design of the tool prevents damage to the cast iron or aluminium steering knuckle.

Technical Data:

a:	6mm
b:	9.5mm
c:	6.5mm



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KL-0255

Strut Holder and Adjustment Device

Suitable for VW-Audi vehicles from 1990 onwards.

This strut holder and adjustment device enables quick, easy and accurate adjustment and repairs of suspension/damper struts to be carried out on a workbench. Due to its special design, the device enables strut tubes to be clamped in vertical position and damper eyes in horizontal position.

The degree scale allows the user to accurately adjust the offset between the bottom and top damper eye/mount.

Advantages:

- Suspension/damper struts are clamped professionally and securely during repairs.
- Possibility to clamp suspension/damper struts vertically as well as horizontally into the device - thanks to the interchangeable jaws.
- The degree scale ensures compatibility and universal use of the tool also with future suspension systems.
- The device can be fixed to a work bench or clamped into a vise.

Note for VW and Audi vehicles:

The front spring/shock absorber struts on VW-Audi vehicles need to be pre-adjusted on the workbench prior to installation in order to ensure that the upper mounting point (spring plate) and the lower shock absorber strut mount (fork/shock absorber eye) are correctly aligned with one another. Unless this work is undertaken first, the shock absorber strut cannot be installed, as the mounting points between the shock absorber strut and the body/axle beam are not in true alignment. If the shock absorber strut mount is forced into the correct position, the O-rings for ride-level control will be damaged and the shock absorber strut will be installed incorrectly (distorted). This will lead to noisy suspension and incorrect road performance of the vehicle.

Attention: With VW-Audi vehicles, only use the **KL-0015** spring compressor and protective inserts.

Setting Data :

Audi 80/90 rear axle	21° ± 2°
Audi 100 Quattro from '91 onwards rear axle	51° ± 2°
Audi 100 (Front-wheel drive) 1991 onwards rear axle	45° ± 2°
Audi A4 (B5) front axle (with KL-0255-10)	11° ± 2°
Audi A4 (B5) rear axle (with KL-0255-10)	50° ± 2°
Audi A6 from 1997 onwards	11° ± 2°
VW Passat from 1996 onwards	11° ± 2°

Weight: 26kg

KL-0255-10

Adjustment Plate for Audi A4

Adjustment plate for Audi A4 (B5 from 1996-2001), front and rear axle.

Accessories:

KL-0255-10



KL-0255-11



KL-0255-12



KL-0255-11

(Patented)

Upgrade Kit, Audi A6

Suitable for Audi A6 (4F models from 2004-2011), front axle.

The upgrade kit is used with the **KL-0255** strut holder and adjustment device, thus enabling the quick and professional adjustment of the spring plate relative to the shock absorber holder eye. The setting gauge allows the user to accurately adjust the offset between the bottom shock absorber mount and the upper spring plate.

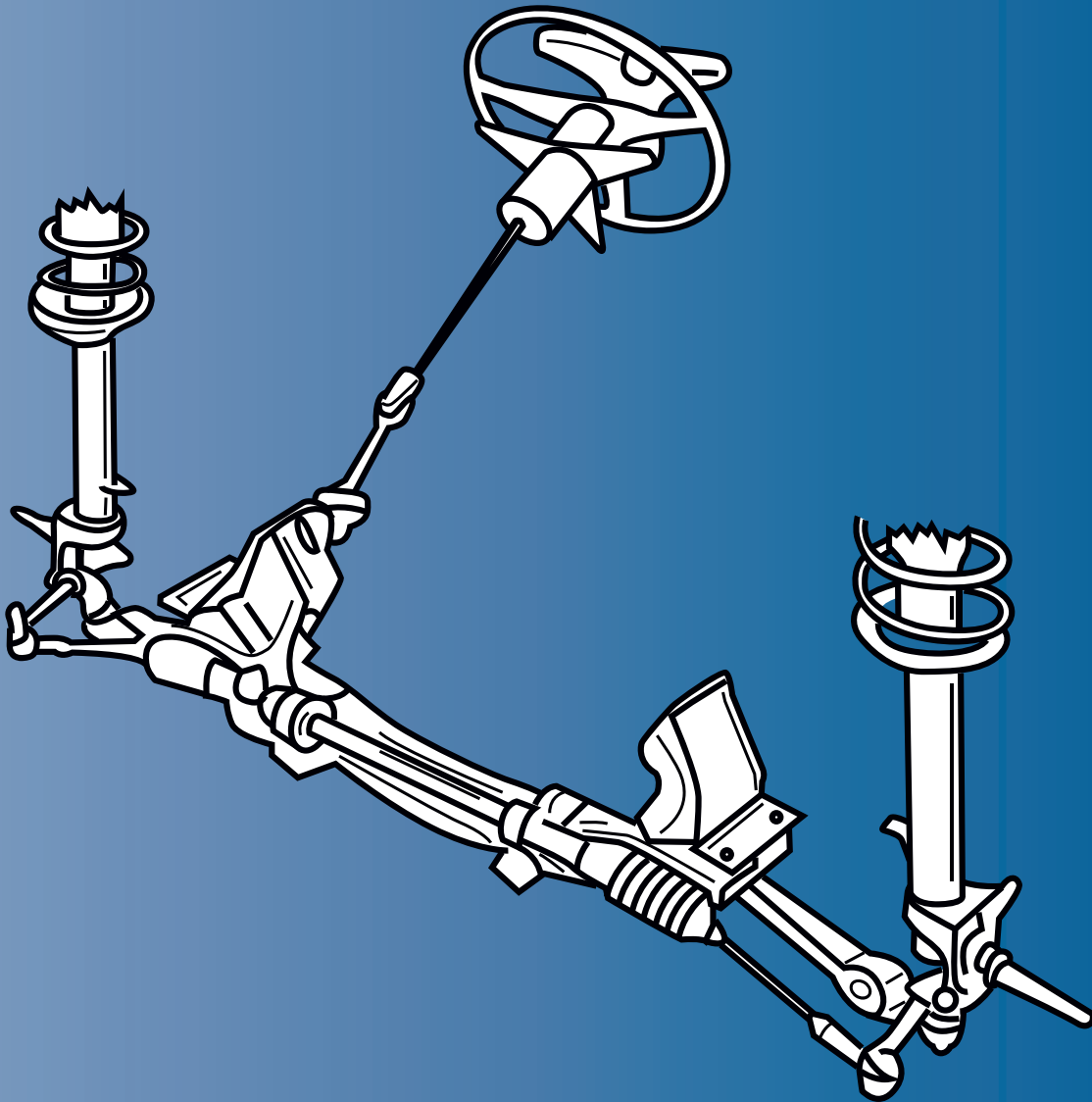
KL-0255-12

(Patented)

Upgrade Kit, Audi A4/A5

Designed for Audi A4 (8K models from 2007 onwards) and Audi A5 (8T models from 2007 onwards)

The upgrade kit is used in conjunction with the **KL-0255** strut holder and adjustment device thus allowing for an accurate and quick adjustment of the spring plate relative to the shock absorber holder eye. The setting gauge allows the user to accurately adjust the offset between the bottom shock absorber mount and the upper spring plate.



Steering System/Geometry

The GEDORE Automotive Silenbloc Tool KL-0039-Series

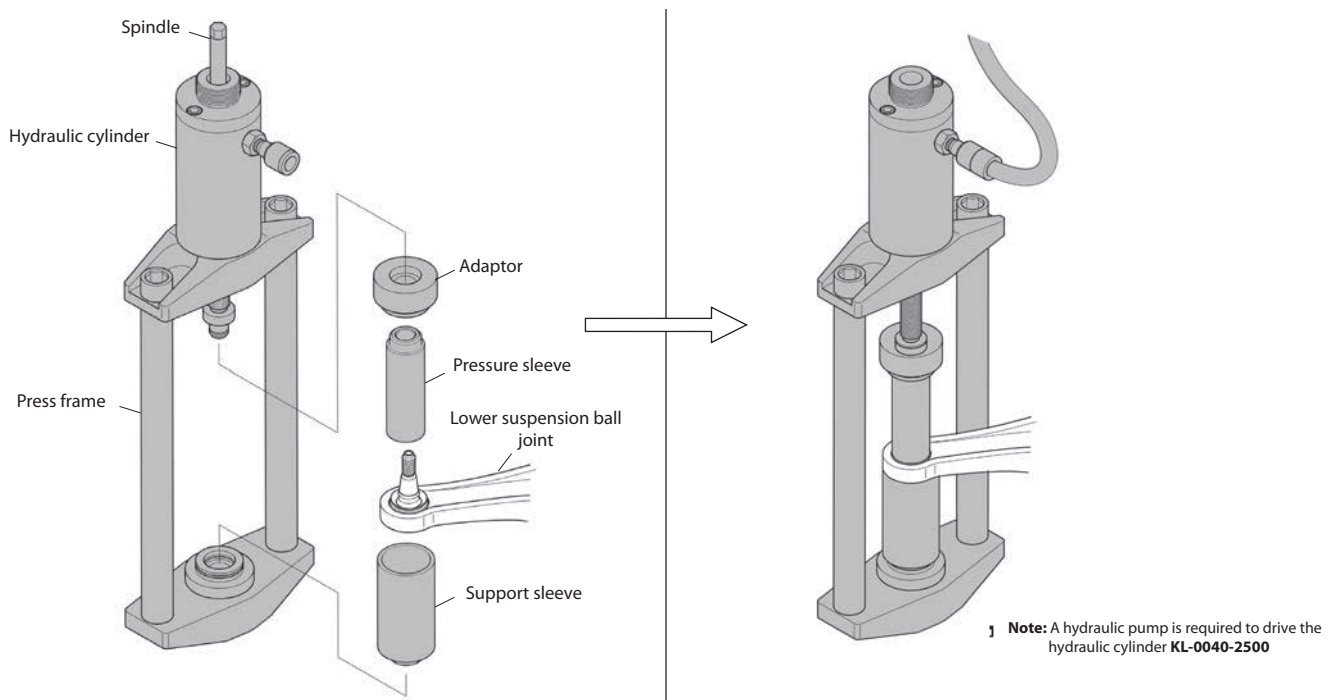
The big advantages of the unrivalled KL-0039- Tool Series are:

- ☑ Universal use of the tool.
- ☑ Substantial time and cost savings as the required tool can easily and universally be assembled as needed.

Silentbloc / Suspension Ball Joint / Removal / Installation using a press frame

Identification of the necessary parts and assembling the tool:

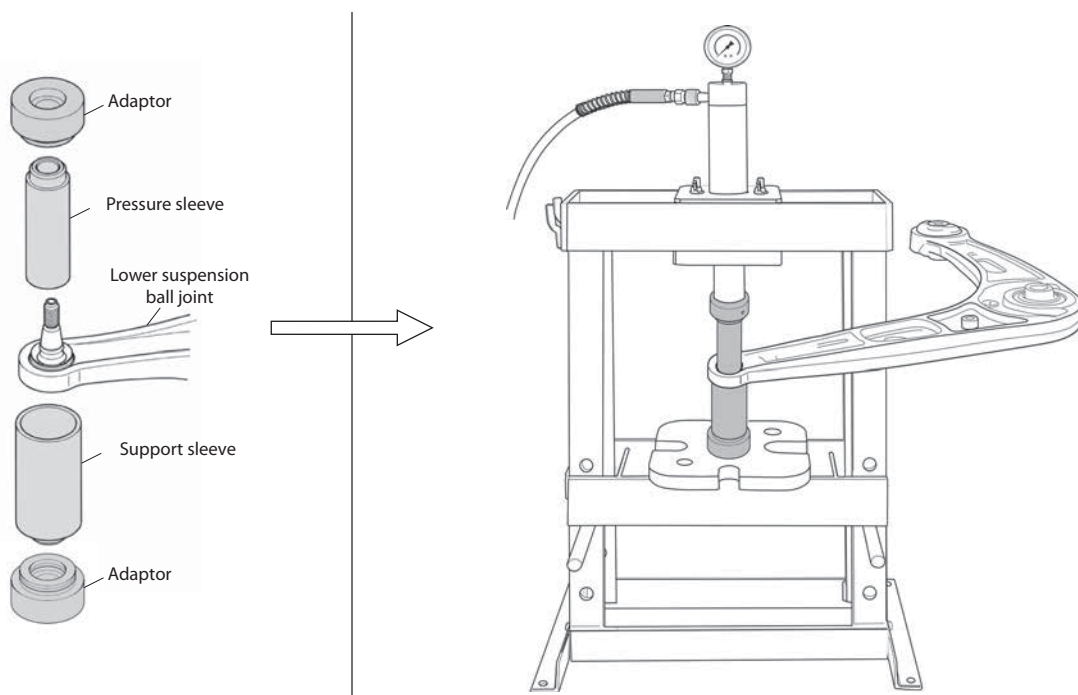
⇒ Mount the tool and press out the silentbloc / suspension ball joint. (Installation follows the same principle)



Silentbloc / Suspension Ball Joint / Removal / Installation using a bench press

Identification of the necessary parts and assembling the tool:

⇒ Mount the tool and press out the silentbloc / suspension ball joint. (Installation follows the same principle)



KL-0039-930 H

Press Tool Set (short), with Hydr. Cyl. (17t)

Universally suitable for silentbloks, lower and upper suspension ball joints, etc.

The press tool set **KL-0039-930 H** allows the quick, professional and safe removal and installation of silentbloks, suspension ball joints, etc. with Ø of 30-59mm, to be performed in situ on the vehicle without the need for dismantling the axle or the wishbone. The 17t hydraulic cylinder that comes with the set ensures professional and trouble-free removal of silentbloks and joint bushes.

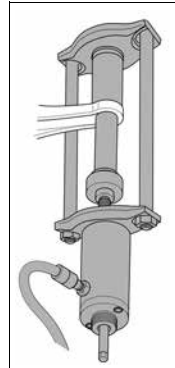
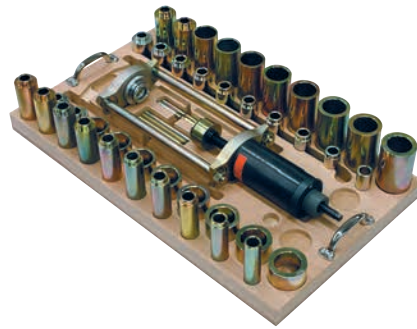
The tool set can easily be upgraded with other parts of the **KL-0039-... Series** such as pull spindles and adaptors, thus allowing for a wide range of applications.

Scope of Delivery: KL-0039-930 H Press Tool Set (short), with 17t Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1140	Press Frame (Lightweight, Short Design)	1
KL-0040-2500	Hydraulic Cylinder (17t)	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1601	Pressure/Support Sleeve Set (Short Design)	1
KL-0039-1701	Pressure/Support Sleeve Set (Long Design)	1
KL-0039-9000	Wooden Storage Plate (without Tools)	1

Scope of Delivery: KL-0039-1601 Pressure/Support Sleeve Set (Short Design)

Part No.	Description	Qty
KL-0039-1610	Guide Pin (short), 10mm	1
KL-0039-1612	Guide Pin (short), 12mm	1
KL-0039-1614	Guide Pin (short), 14mm	1
KL-0039-1616	Guide Pin (short), 16mm	1
KL-0039-1630	Pressure/Support Sleeve (short), Ø A: 30mm, Ø B: 22mm	1
KL-0039-1632	Pressure/Support Sleeve (short), Ø A: 32mm, Ø B: 24mm	1
KL-0039-1634	Pressure/Support Sleeve (short), Ø A: 34mm, Ø B: 26mm	1
KL-0039-1636	Pressure/Support Sleeve (short), Ø A: 36mm, Ø B: 28mm	1
KL-0039-1638	Pressure/Support Sleeve (short), Ø A: 38mm, Ø B: 30mm	1
KL-0039-1640	Pressure/Support Sleeve (short), Ø A: 40mm, Ø B: 32mm	1
KL-0039-1642	Pressure/Support Sleeve (short), Ø A: 42mm, Ø B: 34mm	1
KL-0039-1644	Pressure/Support Sleeve (short), Ø A: 44mm, Ø B: 36mm	1
KL-0039-1646	Pressure/Support Sleeve (short), Ø A: 46mm, Ø B: 38mm	1
KL-0039-1648	Pressure/Support Sleeve (short), Ø A: 48mm, Ø B: 40mm	1
KL-0039-1650	Pressure/Support Sleeve (short), Ø A: 50mm, Ø B: 42mm	1
KL-0039-1652	Pressure/Support Sleeve (short), Ø A: 52mm, Ø B: 44mm	1
KL-0039-1654	Pressure/Support Sleeve (short), Ø A: 54mm, Ø B: 46mm	1
KL-0039-1656	Pressure/Support Sleeve (short), Ø A: 56mm, Ø B: 48mm	1
KL-0039-1658	Pressure/Support Sleeve (short), Ø A: 58mm, Ø B: 50mm	1
KL-0039-1660	Pressure/Support Sleeve (short), Ø A: 60mm, Ø B: 52mm	1
KL-0039-1662	Pressure/Support Sleeve (short), Ø A: 62mm, Ø B: 54mm	1
KL-0039-1664	Pressure/Support Sleeve (short), Ø A: 64mm, Ø B: 56mm	1
KL-0039-1666	Pressure/Support Sleeve (short), Ø A: 66mm, Ø B: 58mm	1
KL-0039-1668	Pressure/Support Sleeve (short), Ø A: 68mm, Ø B: 60mm	1



Technical Data:

Inner length (press frame):	275mm
Inner width (press frame):	115mm
Max. load capacity of press frame:	12t
Max. load capacity hydraulic cylinder:	17t

Scope of Delivery: KL-0039-1701 Pressure-/Support Sleeve Set (Long Design)

Part No.	Description	Qty
KL-0039-1710	Guide Pin (long), 10mm	1
KL-0039-1712	Guide Pin (long), 12mm	1
KL-0039-1714	Guide Pin (long), 14mm	1
KL-0039-1716	Guide Pin (long), 16mm	1
KL-0039-1730	Pressure/Support Sleeve (long), Ø A: 30mm, Ø B: 22mm	1
KL-0039-1732	Pressure/Support Sleeve (long), Ø A: 32mm, Ø B: 24mm	1
KL-0039-1734	Pressure/Support Sleeve (long), Ø A: 34mm, Ø B: 26mm	1
KL-0039-1736	Pressure/Support Sleeve (long), Ø A: 36mm, Ø B: 28mm	1
KL-0039-1738	Pressure/Support Sleeve (long), Ø A: 38mm, Ø B: 30mm	1
KL-0039-1740	Pressure/Support Sleeve (long), Ø A: 40mm, Ø B: 32mm	1
KL-0039-1742	Pressure/Support Sleeve (long), Ø A: 42mm, Ø B: 34mm	1
KL-0039-1744	Pressure/Support Sleeve (long), Ø A: 44mm, Ø B: 36mm	1
KL-0039-1746	Pressure/Support Sleeve (long), Ø A: 46mm, Ø B: 38mm	1
KL-0039-1748	Pressure/Support Sleeve (long), Ø A: 48mm, Ø B: 40mm	1
KL-0039-1750	Pressure/Support Sleeve (long), Ø A: 50mm, Ø B: 42mm	1
KL-0039-1752	Pressure/Support Sleeve (long), Ø A: 52mm, Ø B: 44mm	1
KL-0039-1754	Pressure/Support Sleeve (long), Ø A: 54mm, Ø B: 46mm	1
KL-0039-1756	Pressure/Support Sleeve (long), Ø A: 56mm, Ø B: 48mm	1
KL-0039-1758	Pressure/Support Sleeve (long), Ø A: 58mm, Ø B: 50mm	1
KL-0039-1760	Pressure/Support Sleeve (long), Ø A: 60mm, Ø B: 52mm	1
KL-0039-1762	Pressure/Support Sleeve (long), Ø A: 62mm, Ø B: 54mm	1
KL-0039-1764	Pressure/Support Sleeve (long), Ø A: 64mm, Ø B: 56mm	1
KL-0039-1766	Pressure/Support Sleeve (long), Ø A: 66mm, Ø B: 58mm	1
KL-0039-1768	Pressure/Support Sleeve (long), Ø A: 68mm, Ø B: 60mm	1

KL-0039-931 H

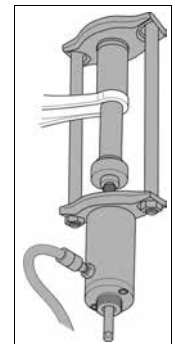
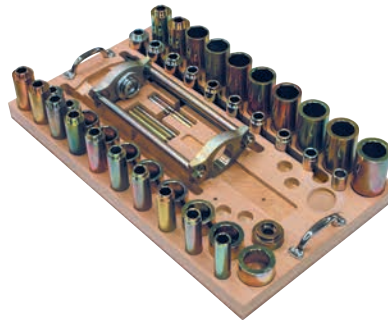
Press Tool Set (Short Design), without Drive

Universally suitable for silentbloks, upper and lower ball joints etc.

The press tool set **KL-0039-931 H** allows the quick, professional and safe removal and installation of silentbloks, suspension ball joints, etc. with Ø of 30-59mm to be performed in situ on the vehicle without the need for dismantling the axle or the wishbone. Used in conjunction with a hydraulic drive, the tools ensure professional and trouble-free removal of silentbloks and joint bushes. The tool set can easily be upgraded with other parts of the **KL-0039-... Series** such as a mechanical drive with pull spindle, thus allowing for a wide range of applications.

Scope of Delivery: KL-0039-931 H Press Tool Set (Short Design), without Drive

Part No.	Description	Qty
KL-0039-1140	Press Frame (Lightweight, Short Design)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350	1
KL-0039-1601	Pressure/Support Sleeve Set (Short Design)	1
KL-0039-1701	Pressure/Support Sleeve Set (Long Design)	1
KL-0039-9000	Wooden Storage Plate (without Tools)	1



Technical Data:

Inner length (press frame):	275mm
Inner width (press frame):	115mm
Max. load capacity of press frame:	12t



KL-0039-160 E



KL-0039-160 K

Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Plastic Storage Case

Indispensable tool set for pressing in and pressing out silentblochs, shafts, bushings etc. The sleeves are used in conjunction with the tools of the **KL-0039-... Series**.

Scope of Delivery:

KL-0039-160 K Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Plastic Storage Case

Part No.	Description	Qty
KL-0039-160 E	Pressure/Support Sleeve Set, Ø 30-90mm (short) 45mm, in a Foam Insert	1
KL-4999-1391	Plastic Storage Case	1

Scope of Delivery:

KL-0039-160 E Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Foam Insert

Part No.	Description	Qty
KL-0039-160	Press-/Support Sleeve Set, Ø 30-90mm (short), 45mm	1
KL-4999-1312	Foam Insert	1

Scope of Delivery:

KL-0039-160 Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm

Part No.	Description	Qty
KL-0039-1630	Pressure-/Support Sleeve, short, Ø 30/22mm	1
KL-0039-1632	Pressure-/Support Sleeve, short, Ø 32/24mm	1
KL-0039-1634	Pressure-/Support Sleeve, short, Ø 34/26mm	1
KL-0039-1636	Pressure-/Support Sleeve, short, Ø 36/28mm	1
KL-0039-1638	Pressure-/Support Sleeve, short, Ø 38/30mm	1
KL-0039-1640	Pressure-/Support Sleeve, short, Ø 40/32mm	1
KL-0039-1642	Pressure-/Support Sleeve, short, Ø 42/34mm	1
KL-0039-1644	Pressure-/Support Sleeve, short, Ø 44/36mm	1
KL-0039-1646	Pressure-/Support Sleeve, short, Ø 46/38mm	1
KL-0039-1648	Pressure-/Support Sleeve, short, Ø 48/40mm	1
KL-0039-1650	Pressure-/Support Sleeve, short, Ø 50/42mm	1
KL-0039-1652	Pressure-/Support Sleeve, short, Ø 52/44mm	1
KL-0039-1654	Pressure-/Support Sleeve, short, Ø 54/46mm	1
KL-0039-1656	Pressure-/Support Sleeve, short, Ø 56/48mm	1
KL-0039-1658	Pressure-/Support Sleeve, short, Ø 58/50mm	1
KL-0039-1660	Pressure-/Support Sleeve, short, Ø 60/52mm	1
KL-0039-1662	Pressure-/Support Sleeve, short, Ø 62/54mm	1
KL-0039-1664	Pressure-/Support Sleeve, short, Ø 64/56mm	1
KL-0039-1666	Pressure-/Support Sleeve, short, Ø 66/58mm	1
KL-0039-1668	Pressure-/Support Sleeve, short, Ø 68/60mm	1
KL-0039-1670	Pressure-/Support Sleeve, short, Ø 70/62mm	1
KL-0039-1672	Pressure-/Support Sleeve, short, Ø 72/64mm	1
KL-0039-1674	Pressure-/Support Sleeve, short, Ø 74/66mm	1
KL-0039-1676	Pressure-/Support Sleeve, short, Ø 76/68mm	1
KL-0039-1678	Pressure-/Support Sleeve, short, Ø 78/70mm	1
KL-0039-1680	Pressure-/Support Sleeve, short, Ø 80/72mm	1
KL-0039-1682	Pressure-/Support Sleeve, short, Ø 82/74mm	1
KL-0039-1684	Pressure-/Support Sleeve, short, Ø 84/76mm	1
KL-0039-1686	Pressure-/Support Sleeve, short, Ø 86/78mm	1
KL-0039-1688	Pressure-/Support Sleeve, short, Ø 88/80mm	1
KL-0039-1690	Pressure-/Support Sleeve, short, Ø 90/82mm	1

KL-0039-170 K

Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Plastic Storage Case

Indispensable tool set for pressing in and pressing out silentblochs, shafts, bushings etc. The sleeves are used in conjunction with the tools of the **KL-0039-... Series**.

Scope of Delivery:

KL-0039-170 K Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Plastic Storage Case

Part No.	Description	Qty
KL-0039-170 E	Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Foam Insert	1
KL-4999-1390	Plastic Storage Case	1

Scope of Delivery:

KL-0039-170 E Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Foam Insert

Part No.	Description	Qty
KL-0039-170	Pressure/Support Sleeve Set Ø 30-90mm, long, 115mm	1
KL-4999-1311	Foam Insert	1

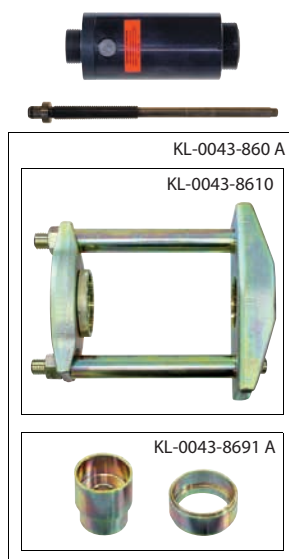
Scope of Delivery:

KL-0039-170 Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm

Part No.	Description	Qty
KL-0039-1730	Pressure-/Support Sleeve, long, Ø 30/22mm	1
KL-0039-1732	Pressure-/Support Sleeve, long, Ø 32/24mm	1
KL-0039-1734	Pressure-/Support Sleeve, long, Ø 34/26mm	1
KL-0039-1736	Pressure-/Support Sleeve, long, Ø 36/28mm	1
KL-0039-1738	Pressure-/Support Sleeve, long, Ø 38/30mm	1
KL-0039-1740	Pressure-/Support Sleeve, long, Ø 40/32mm	1
KL-0039-1742	Pressure-/Support Sleeve, long, Ø 42/34mm	1
KL-0039-1744	Pressure-/Support Sleeve, long, Ø 44/36mm	1
KL-0039-1746	Pressure-/Support Sleeve, long, Ø 46/38mm	1
KL-0039-1748	Pressure-/Support Sleeve, long, Ø 48/40mm	1
KL-0039-1750	Pressure-/Support Sleeve, long, Ø 50/42mm	1
KL-0039-1752	Pressure-/Support Sleeve, long, Ø 52/44mm	1
KL-0039-1754	Pressure-/Support Sleeve, long, Ø 54/46mm	1
KL-0039-1756	Pressure-/Support Sleeve, long, Ø 56/48mm	1
KL-0039-1758	Pressure-/Support Sleeve, long, Ø 58/50mm	1
KL-0039-1760	Pressure-/Support Sleeve, long, Ø 60/52mm	1
KL-0039-1762	Pressure-/Support Sleeve, long, Ø 62/54mm	1
KL-0039-1764	Pressure-/Support Sleeve, long, Ø 64/56mm	1
KL-0039-1766	Pressure-/Support Sleeve, long, Ø 66/58mm	1
KL-0039-1768	Pressure-/Support Sleeve, long, Ø 68/60mm	1
KL-0039-1770	Pressure-/Support Sleeve, long, Ø 70/62mm	1
KL-0039-1772	Pressure-/Support Sleeve, long, Ø 72/64mm	1
KL-0039-1774	Pressure-/Support Sleeve, long, Ø 74/66mm	1
KL-0039-1776	Pressure-/Support Sleeve, long, Ø 76/68mm	1
KL-0039-1778	Pressure-/Support Sleeve, long, Ø 78/70mm	1
KL-0039-1780	Pressure-/Support Sleeve, long, Ø 80/72mm	1
KL-0039-1782	Pressure-/Support Sleeve, long, Ø 82/74mm	1
KL-0039-1784	Pressure-/Support Sleeve, long, Ø 84/76mm	1
KL-0039-1786	Pressure-/Support Sleeve, long, Ø 86/78mm	1
KL-0039-1788	Pressure-/Support Sleeve, long, Ø 88/80mm	1
KL-0039-1790	Pressure-/Support Sleeve, long, Ø 90/82mm	1



KL-0039-170 E



KL-0043-861 A

Pressing Device with Hydr. Cyl., VW T4

Suitable for VW T4 front axle upper ball joint.

The **KL-0043-861 A** pressing device enables the specified upper ball joints to be removed and installed within just 30 minutes without the need for removing the upper wishbone from the vehicle.

Advantages:

- Substantial time savings (2-3 hours).
- Simple and precise use of the tool.
- All components are available individually as spare parts.

Scope of Delivery: KL-0043-861 A Pressing Device with Hydraulic Cylinder, VW T4

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
KL-0043-860 A	Pressing Device without Hydraulic Cylinder, VW T4	1

Scope of Delivery: KL-0043-860 A Pressing Device without Hydr. Cyl., VW T4

Part No.	Description	Qty
KL-0043-8610	Press Frame	1
KL-0043-8691 A	Sleeve Set, VW T4	1

Scope of Delivery: KL-0043-8610 Press Frame

Part No.	Description	Qty
KL-0039-1144	Base Plate, 2 1/4"-14 UNS	1
KL-0039-1144 V	Base Plate, 2 1/4"-14 UNS (reinforced design)	1
KL-0215-4004	Press Frame Rod	2
KL-0049-3004	Hex Nut, M18	4
KL-0043-8601	Adaptor, 2 1/4"-14 UNS to Ø 60mm	1

Scope of Delivery: KL-0043-8691 A Sleeve Set, VW T4

Part No.	Description	Qty
KL-0043-8661	Lower Sleeve, VW T4	1
KL-0043-8662 A	Upper Sleeve, VW T4	1

KL-0326-15

Hydraulic Press Tool Set, VW T4

Suitable for the front axle of VW T4, upper ball joint.

The **KL-0326-15** press tool set enables the upper ball joint to be removed and installed within just 30 minutes, without the need for removing the upper wishbone from the vehicle.

Advantages:

- Substantial time savings (2-3 hours).
- Precise and easy to use.
- All components are available individually as spare parts.
- Press frame **KL-0326-1000** is also suitable for use on Mercedes suspension ball joints.

Scope of Delivery: KL-0326-15 Hydraulic Press Tool Set, VW T4

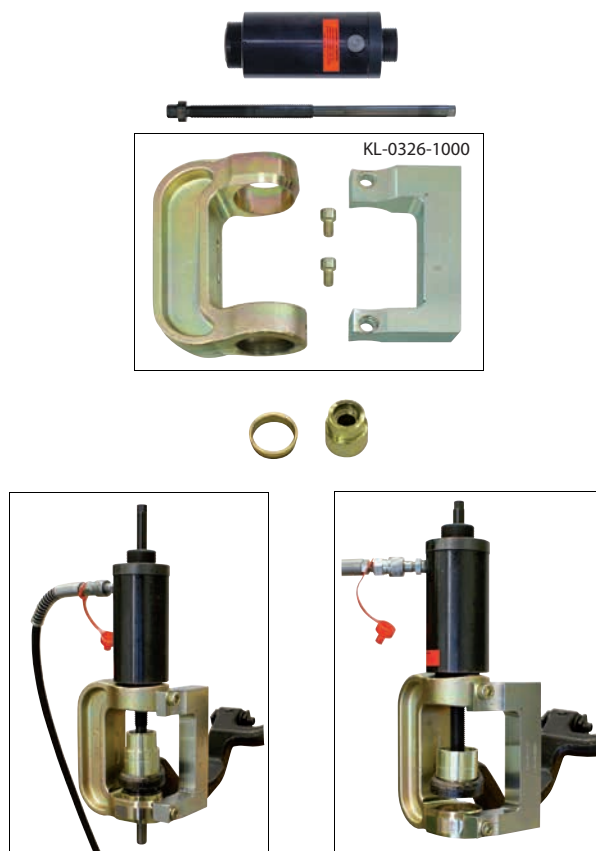
Part No.	Description	Qty
KL-0326-100 A	Hydraulic Press Frame	1
KL-0326-151	Sleeve Set, VW T4	1

Scope of Delivery: KL-0326-100 A Hydraulic Press Frame, Mercedes

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350, with O-ring	1

Scope of Delivery: KL-0326-151 Sleeve Set VW T4

Part No.	Description	Qty
KL-0043-8662 A	Sleeve (upper) VW T4	1
KL-0326-1111	Adaptor ring 1	1



KL-0039-762

Pressing Device with Hydraulic Cylinder, BMW E36

Designed for the BMW 3 Series (E36), front axle wishbone.

The **KL-0039-762** pressing device enables the quick and trouble-free removal and installation of the specified outer suspension ball joints that are found on the lower wishbone.

The removal and replacement of the outer suspension ball joint can also be performed in situ on the vehicle within just a few minutes, with the wishbone in place.

Scope of Delivery:

KL-0039-762 Pressing Device with Hydraulic Cylinder, BMW E36

Part No.	Description	Qty
KL-0039-7620	Pressing Device without Hydraulic Cylinder, BMW E36	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery:

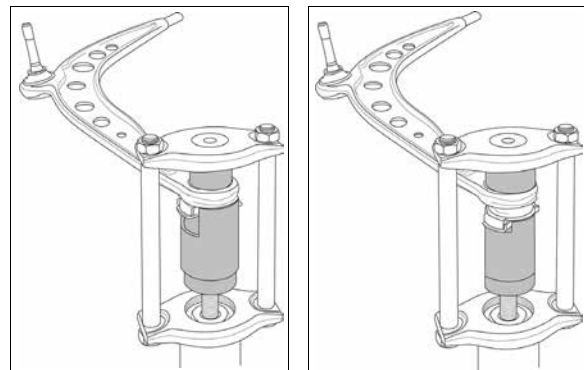
KL-0039-7620 Pressing Device without Hydraulic Cylinder, BMW E36

Part No.	Description	Qty
KL-0039-7623	Sleeve Set, BMW E36	1
KL-0039-1140	Press Frame (lightweight, short)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350	1

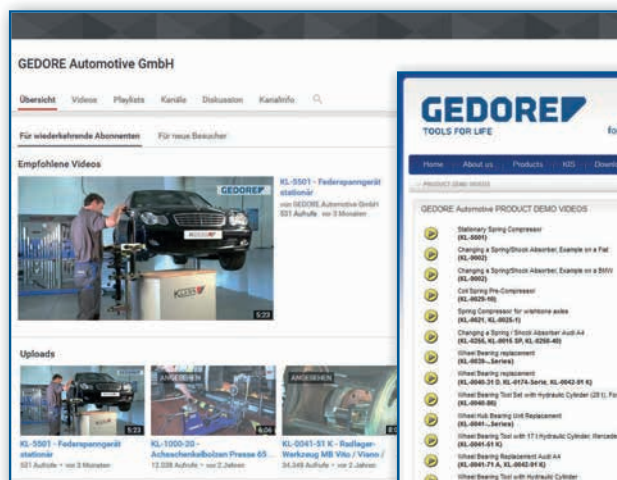
Scope of Delivery:

KL-0039-7623 Sleeve Set, BMW E36

Part No.	Description	Qty
KL-0043-8288-1	Pressure Sleeve for BMW E36	1
KL-0043-8289-1	Support Sleeve for BMW E36	1
KL-0039-1648	Pressure/Support Sleeve, short, Ø 48mm	1
KL-0039-1658	Pressure/Support Sleeve, short, Ø 58mm	1



Online Product Demo Videos



formerly **KLANN**

www.gedore-automotive.com

Product Demo Videos

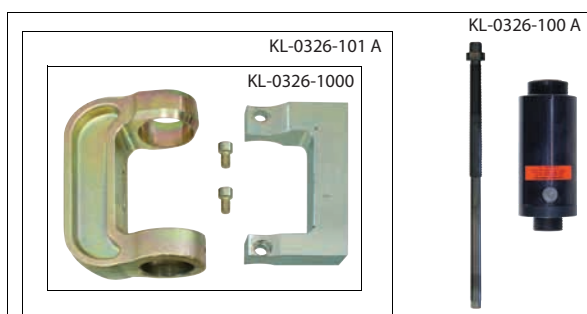
Product demo videos showing the correct use of selected GEDORE Automotive Specialist Tools can be found on our YouTube channel and of course on our website.



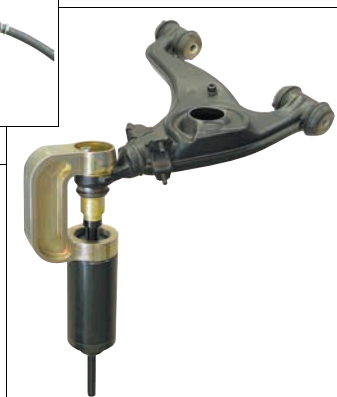
Product Video
YouTube



Product Video
Website



Application Video



KL-0326-10 A

Hydraulic Press Tool Set, Mercedes

Suitable for Mercedes W201 (190 Series), W124 (E-Class), W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) front axle, and W163 (M-Class) front and rear axle.

The **KL-0326-10 A** hydraulic press tool set is designed to press in/press out the suspension ball joints found on the lower wishbone. With some applications, the removal and installation of the suspension ball joint can also be carried out in situ on the vehicle, without having to dismount the wishbone.

Scope of Delivery:

KL-0326-10 A Hydraulic Press Tool Set, Mercedes

Part No.	Description	Qty
KL-0326-100 A	Hydraulic Press Frame	1
KL-0326-112 A	Set of Sleeves (W163/W211/W219/W220/W230)	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm (installation W124, W201)	1
KL-0326-1311	Pressure Ring 3 (removal W124, W201)	1

Scope of Delivery:

KL-0326-100 A Hydraulic Press Frame, Mercedes

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350, with O-ring	1

Scope of Delivery:

KL-0326-101 A Hydraulic Press Tool Set without Drive, Suspension Ball Joint

Part No.	Description	Qty
KL-0326-1000	Press Frame (without drive and sleeves)	1
KL-0326-112 A	Set of Sleeves (W163/W211/W219/W220/W230)	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm (installation W124/W201)	1
KL-0326-1311	Pressure Ring (removal W124/W201)	1

Scope of Delivery:

KL-0326-1000 Press Frame

Part No.	Description	Qty
KL-0326-1001	Press Frame	1
KL-0326-1002 B	Stabilising Bracket	1
KL-0326-1003 B	Cheese Head Screw, M12x20	2

Scope of Delivery:

KL-0326-102 A Hydraulic Press Tool Set without Drive, Suspension Ball Joint

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0326-112 A	Set of Sleeves (W163/W211/W219/W220/W230)	1

Scope of Delivery:

KL-0326-112 A Sleeve Set, Mercedes W163/W211/W219/W220/W230

Part No.	Description	Qty
KL-0326-1111	Support Ring 1, with O-Ring	1
KL-0326-1211	Support Ring 4, with O-Ring	1
KL-0039-1634	Pressure/Support Sleeve, short, Ø 34mm	1
KL-0039-1642	Pressure/Support Sleeve, short, Ø 42mm	1
KL-0039-1650	Pressure/Support Sleeve, short, Ø 50mm	1
KL-0326-1313 A	Pressure/Support Sleeve, Ø 60/52mm	1

Scope of Delivery:

KL-0326-131 A Sleeve Set, Mercedes W124/W201

Part No.	Description	Qty
KL-0326-1311	Pressure Ring 3, with O-Ring	1
KL-0326-1312	Support Ring 4, with O-Ring	1
KL-0326-1313 A	Pressure/Support Sleeve, Ø 60/52mm	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm	1

KL-0326-11 A

Hydraulic Press Tool Set, Mercedes W163

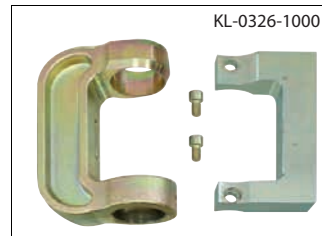
Specifically designed for Mercedes M-Class (W163).

Scope of Delivery: KL-0326-11 A Hydraulic Press Tool Set, Mercedes W163

Part-No.	Description	Qty
KL-0326-111 A	Sleeve Set (W163)	1
KL-0326-1000	Press Frame	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350, with O-ring	1

Scope of Delivery: KL-0326-111 A Sleeve Set, Mercedes W163

Part-No.	Description	Qty
KL-0326-1111	Support Ring 1, with O-Ring	1
KL-0039-1642	Pressure/Support Sleeve, short, Ø 42mm	1
KL-0326-1313 A	Pressure/Support Sleeve, Ø 60/52mm	1



2

KL-0326-20

4-Pin Lock Nut Socket, Mercedes

Suitable for Mercedes M-Class (W163).

For tightening the suspension ball joint lock nut on the steering knuckle/stub axle.

Technical Data:

Outer diameter:	63mm
Inner diameter:	53mm
Pin width:	7.5mm
Weight:	500g



KL-0326-12 A

Hydraulic Press Tool Set, Mercedes W211/W220

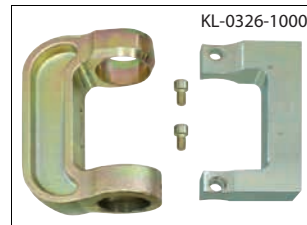
Suitable for Mercedes W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL).

Scope of Delivery: KL-0326-12 A Pressing Device with Hydr. Cyl., Mercedes

Part No.	Description	Qty
KL-0326-121 A	Sleeve set (W211/W219/W220/W230)	1
KL-0326-1000	Press frame	1
KL-0040-2500	Hydraulic Cylinder 17 t	1
KL-0039-1930	Pressure spindle M20x350mm with O-ring	1

Scope of Delivery: KL-0326-121 A Sleeve Set, Mercedes W211/W220

Part No.	Description	Qty
KL-0326-1111	Support ring 1 with O-ring	1
KL-0326-1312 A	Support ring 4 with O-ring	1
KL-0039-1634	Press/Support sleeve short Ø 34mm	1
KL-0039-1650	Press/Support sleeve short Ø 50mm	1



KL-0326-13 A

Hydraulic Press Tool Set, MB W124/W201

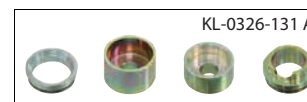
Specifically designed for Mercedes W124, W201 (190 Series).

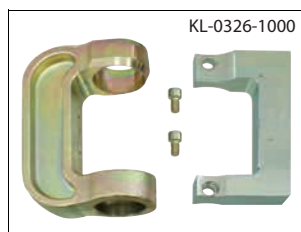
Scope of Delivery: KL-0326-13 A Hydraulic Press Tool Set, Mercedes W124/W201

Part No.	Description	Qty
KL-0326-131 A	Sleeve Set, W124/W201	1
KL-0326-1000	Press Frame	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle with O-ring, M20x350	1

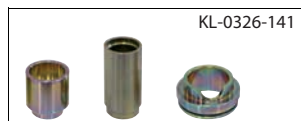
Scope of Delivery: KL-0326-131 A Sleeve Set, Mercedes W124/W201

Part No.	Description	Qty
KL-0326-1311	Pressure Ring 3, with O-Ring	1
KL-0326-1312	Support Ring 4, with O-Ring	1
KL-0326-1313 A	Pressure/Support Sleeve, Ø 60/52mm	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm	1





KL-0326-1000



KL-0326-141



KL-0326-14

Hydraulic Press Tool Set, Mercedes

Suitable for Mercedes W211 (E-Class, from 2002 onwards), W219 (CLS), W220 (S-Class) and W230 (SL) front axle.

Scope of Delivery: KL-0326-14 Hydraulic Press Tool Set Mercedes

Part No.	Description	Qty
KL-0326-100 A	Hydraulic Press Frame, Mercedes	1
KL-0326-141	Sleeve Set, W211/W220	1

Scope of Delivery: KL-0326-141 Sleeve Set, Mercedes W211/W220

Part No.	Description	Qty
KL-0326-1411	Adaptor Ring 5, with O-Ring	1
KL-0039-1640	Pressure/ Support Sleeve, short, Ø 40/32mm	1
KL-0350-5102	Pressure Sleeve	1



KL-0326-160 K

Hydraulic Press Tool Set, without Hydraulic Cylinder, in a Plastic Storage Case

Applicable to: Mercedes W201 (190 Series), W124 (E-Class), W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) and VW T4 (suspension ball joints, front axle) and Mercedes W163 (M-Class) (suspension ball joints, front and rear axle), Mercedes W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) (upper ball joint, front axle).

The **KL-0326-160 K** hydraulic press tool set is designed to be used in conjunction with a hydraulic pump such as the **KL-0215-35 M25** and hydraulic cylinder **KL-0040-2500**, thus enabling lower and upper ball joints to be pressed into and pressed out of the lower wishbone quickly and without any trouble. Removal and installation of the suspension ball joints can sometimes also be carried out in situ on the vehicle within just a few minutes without the need for dismantling the wishbone.

Advantages:

- Enables the quick, easy and professional removal and installation of suspension ball joints.
- This tool set of the GEDORE Automotive Modular System can be further enhanced with additional tools - making it suitable for a wide range of applications.
- All components are available individually as spare parts.

Scope of Delivery:

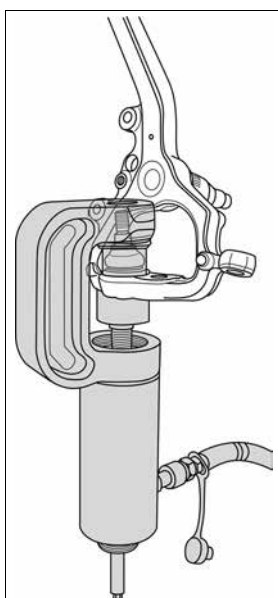
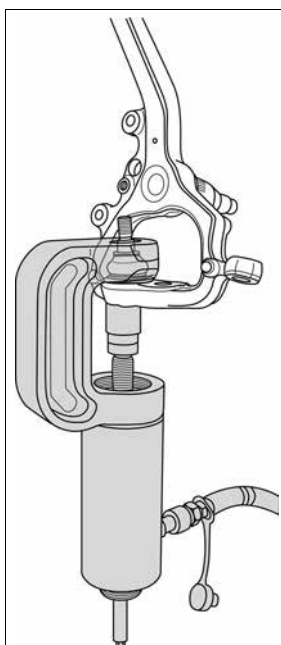
KL-0326-160 K Hydraulic Press Tool Set, without Hydr. Cylinder

Part No.	Description	Qty
KL-0326-160 E	Hydraulic Press Tool Set, without Hydr. Cylinder, in a Foam Insert	1
KL-4999-1393	Plastic Storage Case	1

Scope of Delivery:

KL-0326-160 E Hydraulic Press Tool Set, without Hydr. Cylinder, in a Foam Insert

Part No.	Description	Qty
KL-0326-160	Hydraulic Press Tool Set, without Hydraulic Cylinder	1
KL-4999-1319	Foam Insert	1



KL-0326-160 E



KL-0326-161 E

Scope of Delivery:

KL-0326-161 E Hydraulic Press Tool Set, without Drive, in a Foam Insert

Part No.	Description	Qty
KL-0039-161	Hydraulic Press Tool Set, without Drive	1
KL-4999-1319	Foam Insert	1

KL-0039-750 (Pat. e.g. US-Patent 7,020,944) Pressing Device with Hydraulic Cylinder, Mercedes Sprinter/VW LT (2D)

Designed to change suspension ball joints on Mercedes Sprinter (901-904) models from 1995-2006 and on VW LT (2D) models from 1996-2006.

Used in conjunction with the hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the pressing device **KL-0039-750** enables the quick and trouble-free pushing out and pressing in of the suspension ball joint on the lower wishbone. Removal and installation of the ball joints can be performed in situ on the vehicle within a just few minutes, without having to dismantle the wishbone.

Note:

Mercedes Sprinter and VW LT are fitted with two different wishbones with two different suspension ball joints.

Scope of Delivery: KL-0039-750 Pressing Device with Hydraulic Cylinder, Mercedes Sprinter/VW LT (2D)

Part-No.	Description	Qty
KL-0039-7500	Pressing Device without Hydraulic Cylinder, Mercedes Sprinter	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery: KL-0039-7500 Pressing Device without Hydraulic Cylinder, Mercedes Sprinter/VW LT (2D)

Part No.	Description	Qty
KL-0039-7503	Sleeve Set, Mercedes Sprinter	1
KL-0039-1140	Press Frame, (lightweight, short)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350, with O-Ring	1

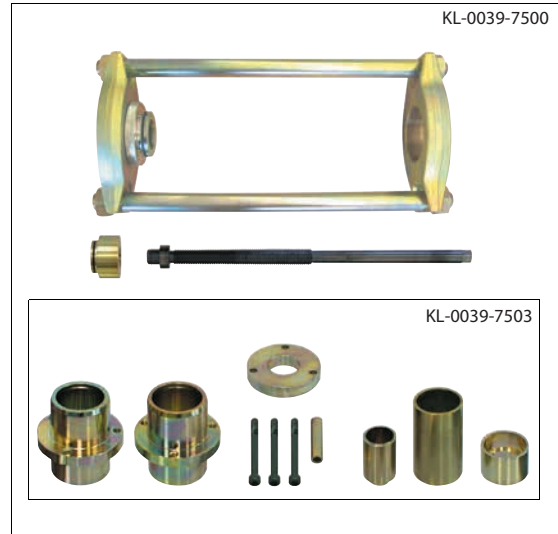
Scope of Delivery:

KL-0039-7503 Sleeve Set, Mercedes Sprinter/VW LT (2D)

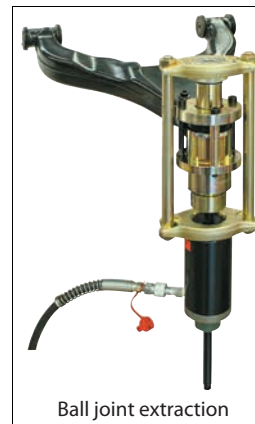
Part No.	Description	Qty
KL-0039-1823	Support Sleeves with Clamping Disc for Mercedes Sprinter	1
KL-0039-1662	Pressure/Support Sleeve, short, Ø 62mm	1
KL-0039-1762	Pressure/Support Sleeve, long, Ø 62mm	1
KL-0039-1824	Pressure Sleeve	1



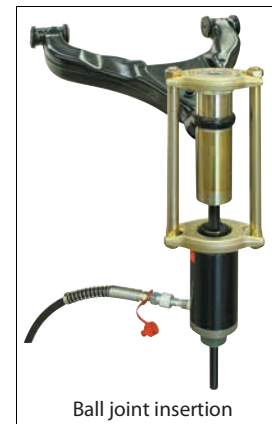
KL-0039-7500



KL-0039-7503



Ball joint extraction



Ball joint insertion

KL-0039-7535 (Pat. e.g. US-Patent 7,020,944) Upgrade Kit for KL-0039-750, MB Sprinter (W906)/VW Crafter (2E/2F)

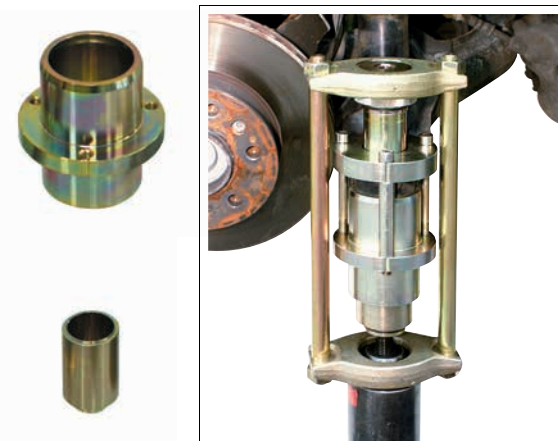
Suitable for Mercedes Sprinter (W906) from 2006 onwards and VW Crafter (2E/2F) from 2006 onwards, suspension ball joints on the front lower wishbone.

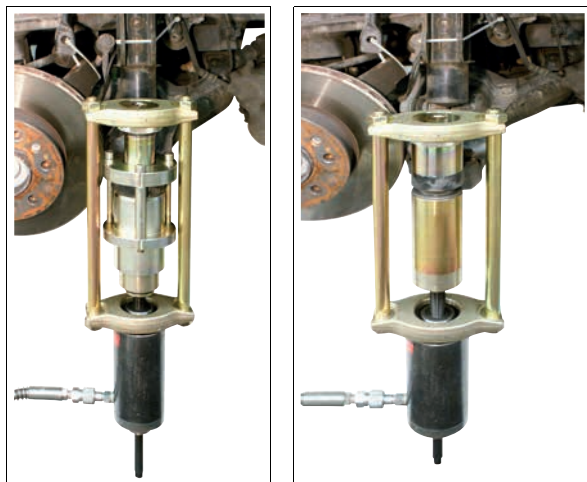
The upgrade kit **KL-0039-7535** enables the pressing device **KL-0039-750** also to be used on Mercedes Sprinter (W906) models from 2006 onwards and VW Crafter (2E/2F) models from 2006 onwards.

Scope of Delivery:

KL-0039-7535 Upgrade Kit for KL-0039-750, Mercedes Sprinter /VW Crafter

Part No.	Description	Qty
KL-0039-1828-1	Support Sleeve for Shoulder Ø 60mm	1
KL-0039-1829	Pressure Sleeve	1





KL-0039-753

(Patented)

Pressing Device with Hydraulic Cylinder, Mercedes Sprinter (W906)/ VW Crafter (2E/2F)

Suitable for Mercedes Sprinter (W906) from 2006 onwards and VW Crafter (2E/2F) from 2006 onwards, suspension ball joint on the front lower wishbone.

Used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the **KL-0039-753** pressing device, enables suspension ball joints to be pressed into and pressed out from the lower wishbone quickly and without any trouble. Removal and installation of the suspension ball joints can be carried out in situ on the vehicle.

Scope of Delivery:

**KL-0039-753 Pressing Device with Hydraulic Cylinder,
Mercedes Sprinter (W906)/VW Crafter (2E/2F)**

Part No.	Description	Qty
KL-0039-7530	Pressing Device without Hydraulic Cylinder, MB Sprinter	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery:

**KL-0039-7530 Pressing Device without Hydraulic Cylinder,
Mercedes Sprinter (W906)/VW Crafter (2E/2F)**

Part No.	Description	Qty
KL-0039-7533	Sleeve Set, Mercedes Sprinter (W906)/VW Crafter (2E/2F)	1
KL-0039-1140	Press Frame, lightweight, short	1
KL-0039-1002	Retaining Adaptor for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm	1

Scope of Delivery:

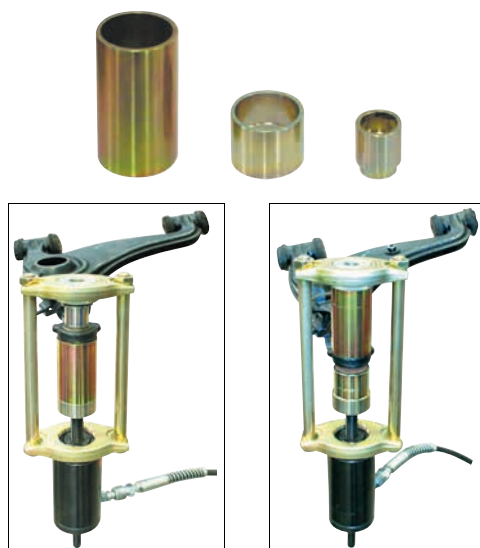
KL-0039-7533 Sleeve Set, Mercedes Sprinter, (W906)/VW Crafter (2E/2F)

Part No.	Description	Qty
KL-0039-7534	Support Sleeve with Clamping Washer	1
KL-0039-1829	Pressure Sleeve	1
KL-0039-1762	Pressure Sleeve, Ø 62mm, long	1
KL-0039-1662	Support Sleeve, Ø 62mm, short	1

Scope of Delivery:

**KL-0039-7534 Support Sleeve with Clamping Washer,
Mercedes Sprinter (W906)/VW Crafter (2E/2F)**

Part No.	Description	Qty
KL-0039-1823-3	Clamping Washer	1
KL-0039-1828-1	Support Sleeve for Shoulder Ø 60mm	1
KL-0039-1823-4	Cheese Head Screw, M10x120mm	1
KL-0039-1823-5	Spacer Tube	1



KL-0039-7523

Sleeve Set, Mercedes 190 Series (W201), W124, W129

Suitable for the Mercedes 190 Series (W201), W124 and W129, suspension ball joint at the front lower wishbone.

Used in conjunction with a hydraulic drive, the **KL-0039-7523** sleeve set enables a suspension ball joint to be pressed into and pressed out of the lower wishbone quickly and with ease. Removal and installation of the specified ball joint can be carried out in situ on the vehicle within just a few minutes, without the need for dismantling the wishbone.

Scope of Delivery:

KL-0039-7523 Sleeve Set, Mercedes 190 Series (W201), W124, W129

Part-No.	Description	Qty
KL-0039-1636	Pressure/Support Sleeve, short, Ø 36mm	1
KL-0039-1658	Pressure/Support Sleeve, short, Ø 58mm	1
KL-0039-1760	Pressure/Support Sleeve, long, Ø 60mm	1

KL-0039-710

Pressing Device with Hydraulic Cylinder

Suitable for Renault Master II (1998 onwards) and Opel Movano I (1998 onwards), front axle.

Used in conjunction with the hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the pressing device **KL-0039-710** allows for the quick, professional and safe removal and installation of the suspension ball joints on the front upper and lower wishbone.

This tool enables even heavily corroded/seized ball joints to be pushed out and replaced within just a few minutes. The removal of the upper or lower wishbone is not necessary.

Advantages:

- Substantial time savings of approx. 1-2 hours
- Quick and professional removal/installation of the suspension ball joints
- Hydraulic Cylinder (17t) **KL-0040-2500** can universally be used on other GEDORE Automotive tools to exert pulling or pushing force.

Scope of Delivery: KL-0039-710 Pressing Device with Hydraulic Cylinder

Part-No.	Description	Qty
KL-0039-7100	Pressing Device without Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery: KL-0039-7100 Pressing Device without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1140	Press Frame (lightweight, short)	1
KL-0039-1930	Pressure Spindle, M20x350, with O-Ring	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-712	Sleeve Set, Renault Master II/Vauxhall/Opel Movano I	1

Scope of Delivery: KL-0039-712 Sleeve Set, Renault Master II; Opel/Vauxhall Movano I

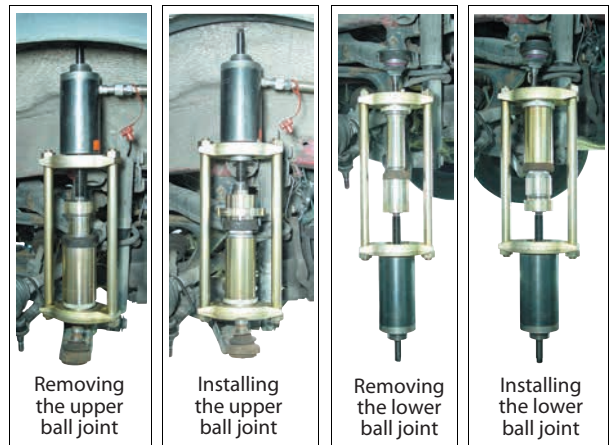
Part-No.	Description	Qty
KL-0039-722	Sleeve Set, Renault Master, Upper Suspension Ball Joint	1
KL-0039-732	Sleeve Set, Renault Master, Lower Suspension Ball Joint	1

Scope of Delivery: KL-0039-722 Sleeve Set, Upper Suspension Ball Joint

Part No.	Description	Qty
KL-0039-1644	Pressure/Support Sleeve, short, Ø 44mm	1
KL-0039-1764	Pressure/Support Sleeve, long, Ø 64mm	1
KL-0039-1820	Support Sleeve for Renault Master	1
KL-0039-1758	Pressure/Support Sleeve, long, Ø 58mm	1

Scope of Delivery: KL-0039-732 Sleeve Set, Lower Suspension Ball Joint

Part-No.	Description	Qty
KL-0039-1821	Pressure/Support Sleeve	1
KL-0039-1658	Pressure/Support Sleeve, short, Ø 58mm	1
KL-0039-1652	Pressure/Support Sleeve, short, Ø 52mm	1
KL-0039-1822	Pressure/Support Sleeve	1



KL-0711-11 L

Pressing Device with Hydraulic Cylinder

Designed for Volvo S40/V40, front axle wishbone.

Allows for the quick and easy removal and replacement of suspension ball joints. The ball joints can be removed and installed in situ on the vehicle within just a few minutes, without having to dismount the wishbone. This tool enables even heavily corroded/seized ball joints to be pushed out and replaced quickly and without any trouble.

Scope of Delivery: KL-0711-11 L Pressing Device with Hydr. Cyl., Volvo S40/V40

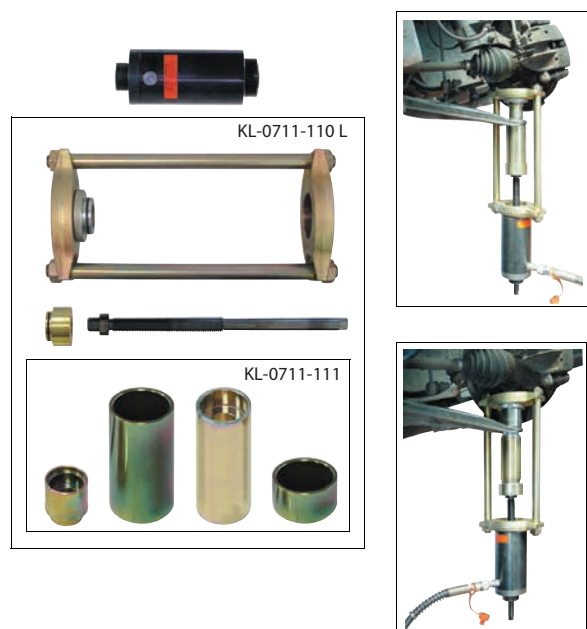
Part No.	Description	Qty
KL-0711-110 L	Pressing Device without Hydraulic Cylinder, Volvo S40/V40	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

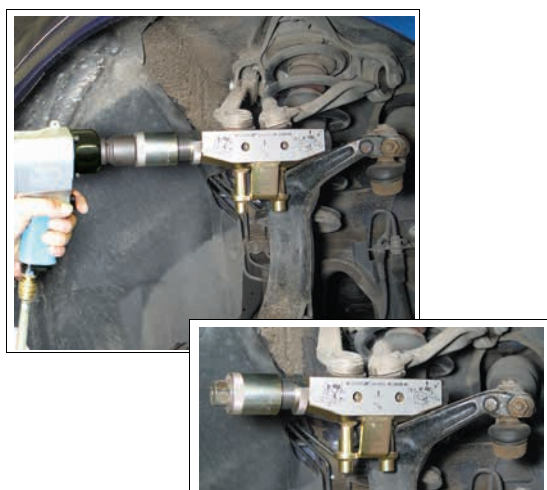
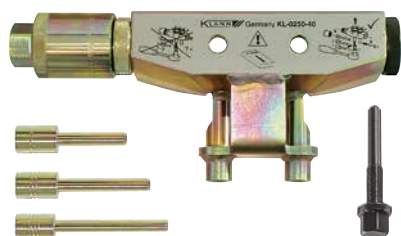
Scope of Delivery: KL-0711-110 L Pressing Device without Hydr. Cyl., Volvo S40/V40

Part No.	Description	Qty
KL-0039-1140	Press Frame, short	1
KL-0711-111	Sleeve Set, Volvo S40/V40	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1

Scope of Delivery: KL-0711-111 Set of Sleeves, Volvo S40/V40

Part No.	Description	Qty
KL-0711-1111	Pressure/Support Sleeve, short, Ø 38mm	1
KL-0039-1754	Pressure/Support Sleeve, long, Ø 54mm	1
KL-0039-1750	Pressure/Support Sleeve, long, Ø 50mm	1
KL-0039-1654	Pressure/Support Sleeve, short, Ø 54mm	1





Scope of Delivery:

**KL-0250-40 Extractor for Clamping Bolt and Ball Joint,
Audi A4/VW Passat**

Part No.	Description	Qty
KL-0250-4001	Tool Body	1
KL-0250-4002	Thread Adaptor (with large bore)	1
KL-0250-4005	Pressure Screw, M10x1.25x95mm	1
KL-0250-4011	Housing	1
KL-0250-4012	Pressure Drift I (Length 78mm)	1
KL-0250-4013	Nut	1
KL-0250-4014	Pressure Drift II (Length 98mm)	1
KL-0250-4015	Pressure Drift III (Length 118mm)	1

KL-0250-40

(Pat. e.g. US-Patent 6,546,610)

Extractor for Clamping Bolt and Ball Joint, Audi A4/VW Passat

Suitable for Audi A4 (until 2000)/VW Passat front axle (until 2005). Designed to remove the upper wishbone pivot pin from the steering knuckle clamping bore.

Removing the upper clamping bolt and the two pivot pins from the steering knuckle has always presented mechanics and technicians with problems, especially when components are heavily corroded/seized in place. Not only is the usual technique using hammer, welding torch, angle grinder and drift time-consuming and arduous, but there is also a risk of damaging steering knuckles, pivot pins and wishbone struts.

The KL-0250-40 extractor with its proper pressure unit enables the quick and professional extraction of the hex clamping bolt and pivot pins. The tool is suitable for both right-hand and left-hand wheel suspensions.

Example of use:

- Mount tool with pressure unit to steering knuckle (with pressure drift I inserted).
- Drive hex nut by means of an impact wrench and push back the hex clamping bolt. The loosening process takes place with a loud noise.
- Extract hex clamping bolt with the pressure unit in 3 working stages. For this, insert the pressure drifts II + III one after another.
- Pull out hex clamping bolt completely. In case it is still not possible to extract the entire hex clamping bolt, use the supplement pressure drift set **KL-0250-402** to press it out completely.
- Remove hex nut. Completely remove pressure drift so that the clamping bore is clear.
- Using the pressure spindle, push out both pivot pins from the clamping bore.

Advantages:

- High cost savings.
- Substantial time savings of approximately 2-3 hours.
- No risk of damage to suspension components.

Technical Data:

Weight:	2.4kg
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KL-0250-402

Upgrade Pressure Drift Set

Used to press the hex clamping bolt completely out of the clamping bore.

Scope of Delivery: KL-0250-402 Upgrade Pressure Drift Set

Part No.	Description	Qty
KL-0250-4016	Pressure Drift IV (Length 138mm)	1
KL-0250-4017	Pressure Drift V (Length 158mm)	1
KL-0250-4018	Pressure Drift VI (Length 178mm)	1



KL-0250-403

Pressure Drift Puller

The pressure drift puller **KL-0250-403** enables pressure drifts to be pulled out of the tool body.

KL-0250-41 KA

Extractor with Extraction Device for Clamping Bolt, Audi A4/A6

Suitable for Audi A4 (8E) and A6 (2004 onwards). Essential tool for the professional extraction of the upper wishbone pivot pin clamping bolt from the steering knuckle clamping bore.

The extractor **KL-0250-41 KA** with its proper pressure unit and extraction device, enables the quick and professional extraction of hex clamping bolts. The extraction device is used to pull out the loosened hex clamping bolt.

The tool is suitable for both right-hand and left-hand wheel suspensions.

Example of use:

- Mount extractor with pressure unit and fixing unit to steering knuckle.
- Screw in the hex nut of the pressure unit using special socket (24mm waf) and a 1/2" impact wrench. The hex clamping bolt is pressed out. The loosening process takes place with a loud noise.
- Remove extractor. Mount extraction device to extract the loosened clamping bolt.
- Screw in the hex nut of the extraction device using the special socket (24mm waf) and remove the hex clamping bolt completely.

Advantages:

- High cost savings.
- Substantial time savings of approximately 2-3 hours.
- No risk of damage to suspension components.

Scope of Delivery:

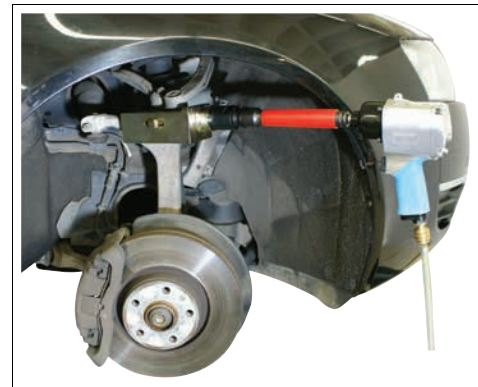
KL-0250-41 KA Extractor with Extraction Device for Clamping Bolt Audi A4 / A6

Part No.	Description	Qty
KL-0250-410	Extractor for Clamping Bolt	1
KL-0250-416	Extraction Device for Clamping Bolt, Size 16mm	1
KL-0250-417	Upgrade Kit, Audi A6	1
KL-0250-4190	Plastic Storage Case	1



Technical Data:

Weight:	8.2kg
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KL-0250-42

Pivot Pin Removal Tool

Suitable for Audi A4 (2001 onwards) and Audi A6 (2004 onwards).

This tool is designed to punch out pivot pins from wishbone struts.



KL-0250-43 K

Drill-Out Tool Kit for Strut Bolts, Audi

Applicable to Audi A4 (8E, 8H, 8K); A5 (8T); A6 (4B, 4G, 4F); Q5 (8R), A7 (4GA, 4GF), A8 (4D) and Seat Exeo (3R2, 3R5) with aluminium steering knuckle.

The **KL-0250-43 K** drill-out tool kit allows the user to professionally drill out upper strut clamping bolts as found on aluminium steering knuckles. An indispensable tool kit when clamping bolts are a tight fit or seized in place. When drilling out strut bolts on steering knuckles with low-mounted steering gear, the steering knuckle needs to be locked in fully turned position by means of the clamping device that comes with the kit. This will prevent damage to the mudguard. The use of this tool kit eliminates the need for cost-intensive replacement of the complete steering knuckle with wheel bearing unit.



Patented

✓ High-quality product made in Germany.

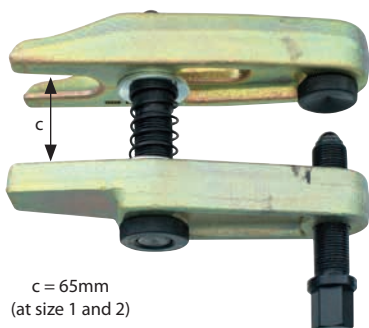
✓ Forks are removable by a 90° rotation and feature a T-bolt locking mechanism.

✓ All components are available individually as spare parts.

Interchangeable forks enable quick and easy adjustment to the required ball joint head size.



Dimension "c" can be reduced by reversing the pressure lever!



Pressure spindle and ball socket are replaceable and can be inserted from the top or from the bottom.



Extended T-adjusting spindle and pressure spindle for enlarging the dimension "c" are available as accessories.

✓ Forged pressure lever and fork.

✓ Infinitely adjustable to the required pivot pin height.

✓ Pressure spindle driven by a 19mm hexagon and provided with a safety shoulder to prevent spanner from slipping.

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm



✓ A wide range of forks for the most different kinds of ball joint connections is available as accessories.

KL-0165-Series Ball Joint Extractors

[Pat.]

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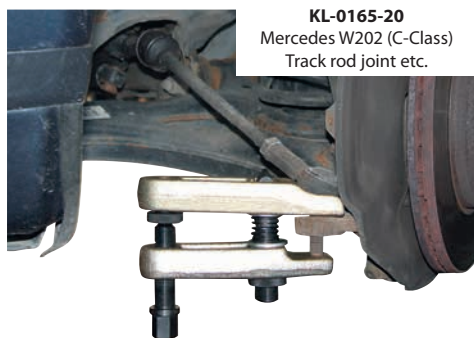
KL-0165-12
Mercedes W140 (S-Class)
Front axle etc.



KL-0165-14
Audi A4 / VW Passat
Upper ball joint



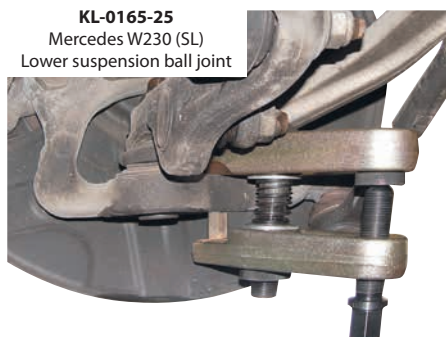
KL-0165-14
VW T4
Track rod joint



KL-0165-20
Mercedes W202 (C-Class)
Track rod joint etc.



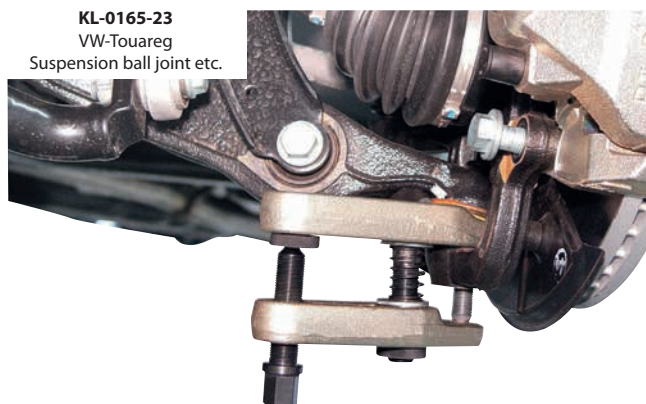
KL-0165-22
VW-Touareg
Track rod joint etc.



KL-0165-25
Mercedes W230 (SL)
Lower suspension ball joint



KL-0165-23
Mercedes G-Model
Steering box reversing lever etc.



KL-0165-23
VW-Touareg
Suspension ball joint etc.



KL-0165-0 K

(Pat. e.g. US-Patent 5,906,034)

Ball Joint Extractor Set (Size 1)

Suitable for passenger cars and vans, e.g.

- with fork KL-0165-1201 for: Mercedes S-Class (W220) and W140 upper/lower ball joint, front axle; VW Golf (IV) track rod ball joint etc.
- with fork KL-0165 1401 for: Audi A4; VW Passat; Škoda Superb upper ball joint; VW T4 track rod ball joint etc.

An essential tool set for VW-Audi, Seat, Škoda, Mercedes, Opel/Vauxhall.

An indispensable tool set for the quick and easy separation of ball joint connections in suspension and steering systems. The ever-increasing number of different ball joints used in today's vehicle suspension and steering systems has led to the need for an ever-widening range of ball joint extractors for separating ball joint connections from steering knuckles/stub axles and steering arms. This is mainly due to the different diameters and sizes of the ball joints. In addition, ball joints with conical pivot pins require increased stability and strength of the ball joint extractors to achieve easy separation. When separating ball joint connections, it is decisive that the angle and the correct pressure point for the separation can be adjusted on the extractor. With the **KL-0165-0 K** ball joint extractor set, GEDORE Automotive offers technicians and mechanics a tool with high stability and universal application possibilities. The extractor can easily be adjusted to the respective ball joint diameter and pivot pin height - simply by changing the forks.

Technical Data:

Weight:	6.5kg
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Scope of Delivery: KL-0165-0 K Ball Joint Extractor Set, Size 1

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1001	Fork - a=20mm - e=50mm - d=165mm	1
KL-0165-1101	Fork - a=22mm - e=50mm - d=165mm	1
KL-0165-1201	Fork - a=24mm - e=50mm - d=165mm	1
KL-0165-1301	Fork - a=27mm - e=50mm - d=165mm	1
KL-0165-1401	Fork - a=30mm - e=50mm - d=165mm	1
KL-0165-1090	Plastic Storage Case	1



KL-0165-1

(Pat. e.g. US-Patent 5,906,034)

Ball Joint Extractor Set, Size 1 and 2

For passenger cars and vans / light commercial vehicles. (size 1 and size 2).

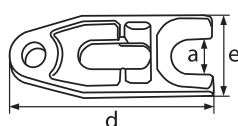
An indispensable tool set for the quick and easy separation of ball joint connections in suspension and steering systems. The ever-increasing number of different ball joints used in today's vehicle suspension and steering systems has led to the need for an ever-widening range of ball joint extractors for separating ball joint connections from steering knuckles/stub axles and steering arms. This is mainly due to the different diameters and sizes of the ball joints. In addition, ball joints with conical pivot pins require extractors featuring extremely high stability and strength in order to achieve easy separation. When separating ball joint connections, it is decisive that the angle and the correct pressure point for the separation can be adjusted on the extractor. With the **KL-0165-1** ball joint extractor set, GEDORE Automotive offers service technicians and mechanics a tool with high stability and universal application possibilities. The extractor can easily be adjusted to the respective ball joint diameter and pivot pin height - simply by changing the forks.

Technical Data:

Weight:	10.5kg
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Scope of Delivery: KL-0165-1 Ball Joint Extractor Set

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1001	Fork - a=20mm - e=50mm - d=165mm	1
KL-0165-1101	Fork - a=22mm - e=50mm - d=165mm	1
KL-0165-1201	Fork - a=24mm - e=50mm - d=165mm	1
KL-0165-1301	Fork - a=27mm - e=50mm - d=165mm	1
KL-0165-1401	Fork - a=30mm - e=50mm - d=165mm	1
KL-0165-2001	Fork - a=22mm - e=60mm - d=165mm	1
KL-0165-2101	Fork - a=24mm - e=60mm - d=165mm	1
KL-0165-2201	Fork - a=26mm - e=60mm - d=165mm	1
KL-0165-2301	Fork - a=30mm - e=60mm - d=165mm	1
KL-0165-1090	Plastic Storage Case	1



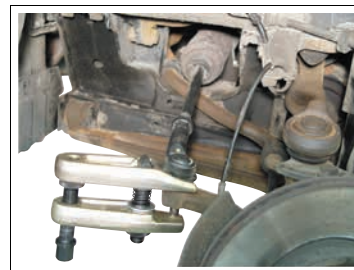
KL-0165-100

Base Tool without Fork

The base tool **KL-0165-100** used with a fork (size 1), for example the **KL-0165-1201**, is designed for the separation of ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-100 Base Tool without Fork

Part No.	Description	Qty
KL-0165-1002	Pressure Lever	1
KL-0165-1003	Adjusting T-Spindle, M18x1.5x110 mm	1
KL-0165-1004	Pressure Spindle, M18x1.5x70 mm	1
KL-0165-1005	Thrust Piece	1
KL-0165-1006	Knurled Nut, M18x1.5	1
KL-0165-1007	Spring	1
KL-0165-1008	Plain Washer, Ø 18mm	1



KL-0165-10

(Pat. e.g. US-Patent 5,906,034)

Ball Joint Extractor, Size 1

Universal application.

Ideal for Audi A6 Avant (4A), Golf (IV) track rod ball joint and Peugeot 307 (2.0 HDI, 136bhp, model 2006) lower suspension ball joint.
(Fork opening a=20mm)

The ball joint extractor **KL-0165-10** is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-10 Ball Joint Extractor, Size 1

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1001	Fork - a=20mm - e=50mm - d=165mm	1



KL-0165-11

(Pat. e.g. US-Patent 5,906,034)

Ball Joint Extractor, Size 1

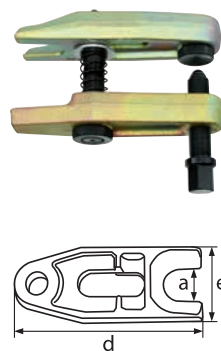
Universal application.

Ideal for Mercedes A-Class (W168) track rod ball joint etc.
(Fork opening a=22mm)

The ball joint extractor **KL-0165-11** is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-11 Ball Joint Extractor, Size 1

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1101	Fork - a=22mm - e=50mm - d=165mm	1



KL-0165-12

(Pat. e.g. US-Patent 5,906,034)

Ball Joint Extractor, Size 1

Universal application. (Fork opening a=24mm)

Ideal for Mercedes S-Class (W220), W140, front axle suspension lower/upper ball joints, VW Golf (IV) track rod ball joints etc.

The ball joint extractor **KL-0165-12** is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-12 Ball Joint Extractor, Size 1

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1201	Fork - a=24mm - e=50mm - d=165mm	1



Accessories (on demand):

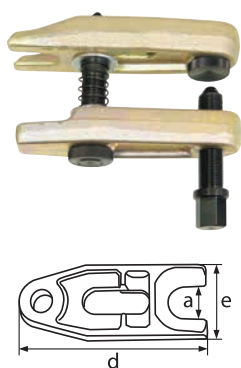
1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm



2



KL-0165-13

(Pat. e.g. US-Patent 5,906,034)

Ball Joint Extractor, Size 1

Universal application.

Ideal for VW LT, Mercedes Sprinter (906) track rod etc.
(Fork opening a=27mm)

The ball joint extractor **KL-0165-13** is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-13 Ball Joint Extractor, Size 1

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1301	Fork - a=27mm - e=50mm - d=165mm	1



KL-0165-14

(Pat. e.g. US-Patent 5,906,034)

Ball Joint Extractor, Size 1

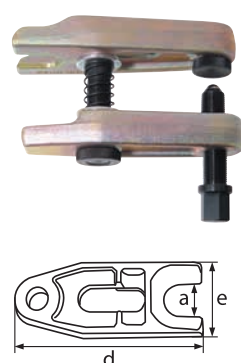
Universal application.

Ideal for Audi A4; VW Passat; Škoda Superb upper ball joint, VW T4 track rod ball joint etc.
(Fork opening a=30mm)

The ball joint extractor **KL-0165-14** is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-14 Ball Joint Extractor, Size 1

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-1401	Fork - a=30mm - e=50mm - d=165mm	1



KL-0165-20

(Pat. e.g. US-Patent 5,906,034)

Ball Joint Extractor, Size 2

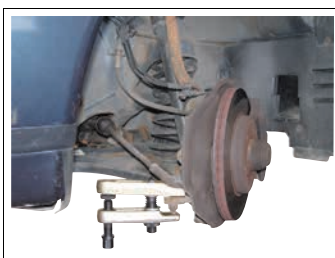
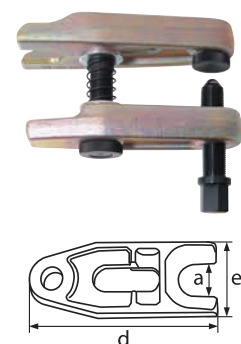
Universal application.

Ideal for Mercedes M-Class (W163), E-Class (W211), W220 (S-Class), upper ball joint SLK (W170), C-Class (W202), S-Class (W220), track rod etc.
(Fork opening a=22mm)

The ball joint extractor **KL-0165-20** is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-20 Ball Joint Extractor, Size 2

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-2001	Fork - a=22mm - e=60mm - d=165mm	1



KL-0165-21

(Pat. e.g. US-Patent 5,906,034)

Ball Joint Extractor, Size 2

Universal application.

(Fork opening a=24mm)

The ball joint extractor **KL-0165-21** is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-21 Ball Joint Extractor, Size 2

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-2101	Fork - a=24mm - e=60mm - d=165mm	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm



KL-0165-22 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 2

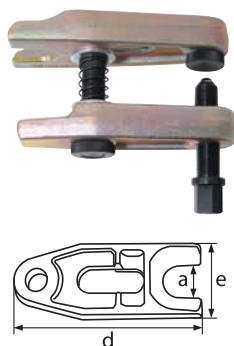
Universal application.

Ideal for VW Touareg; Porsche Cayenne track rod and upper ball joint, Mercedes E-Class (W210), Sprinter track rod ball joint, Ford Transit track rod joint, VW Golf (IV) lower suspension ball joint etc.
(Fork opening a=26mm)

The ball joint extractor **KL-0165-22** is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-22 Ball Joint Extractor, Size 2

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-2201	Fork - a=26mm - e=60mm - d=165mm	1



KL-0165-23 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 2

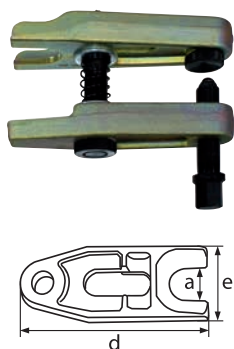
Universal application.

Ideal for VW Touareg; Porsche Cayenne suspension ball joint, VW T4/T5 lower suspension ball joint, Mercedes G-Model track rod ball joint and steering box reversing lever, Ford Transit lower suspension ball joint
(Fork opening a=30mm)

The ball joint extractor **KL-0165-23** is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-23 Ball Joint Extractor, Size 2

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-2301	Fork - a=30mm - e=60mm - d=165mm	1



KL-0165-24 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 2

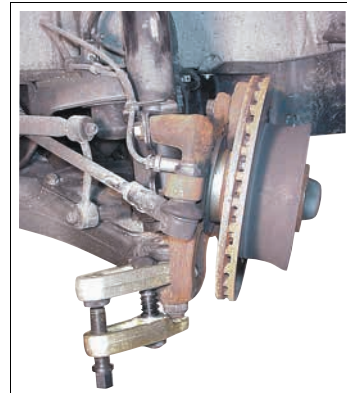
Universal application.

(Fork opening a=34mm)

The ball joint extractor **KL-0165-24** is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-24 Ball Joint Extractor, Size 2

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-2401	Fork - a=34mm - e=60mm - d=165mm	1



KL-0165-25 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 2

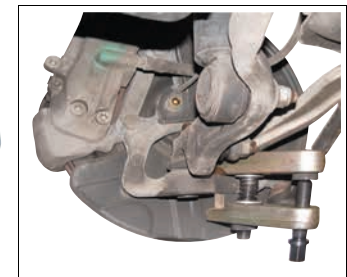
Universal application.

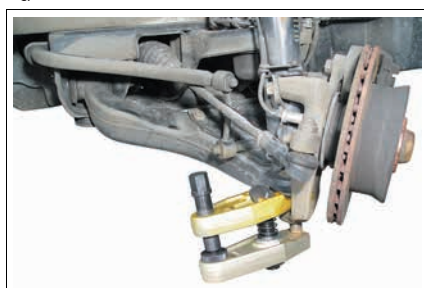
Ideal for Mercedes E-Class (W211), CLS (W219), S-Class (W220) and SL (W230) lower suspension ball joint etc.
(Fork opening a=24mm)

The ball joint extractor **KL-0165-25** is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-25 Ball Joint Extractor, Size 2

Part No.	Description	Qty
KL-0165-100	Base Tool without Fork (Spindle M18x1.5)	1
KL-0165-2501	Fork - a=24mm - e=60mm - d=165mm	1





KL-0165-3 A
Ball Joint Extractor Set (with 6 forks) (not shown)
Like the **KL-0165-3 KA** however, without Storage case.

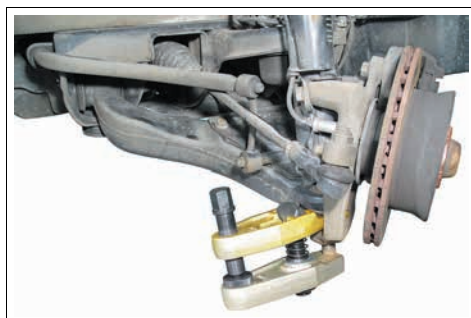
KL-0165-3 KA (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor Set (with 6 Forks)

Universally suitable for HGV and light commercial vehicles/vans etc.

An indispensable tool set for the quick and easy separation of ball joint connections in suspension and steering systems. The ever-increasing number of different ball joints used in today's vehicle suspension and steering systems has led to the need for an ever-widening range of ball joint extractors for separating ball joint connections from steering knuckles/stub axles and steering arms. This is mainly due to the different diameters and sizes of the ball joints. In addition, ball joints with conical pivot pins require extractors featuring extremely high stability and strength in order to achieve easy separation. When separating ball joint connections, it is decisive that the angle and the correct pressure point for the separation can be adjusted on the extractor. With the **KL-0165-3 KA** ball joint extractor set, GEDORE Automotive offers service technicians and mechanics a tool with high stability and universal application possibilities. The extractor can easily be adjusted to the respective ball joint diameter and pivot pin height - simply by changing the forks.

Scope of Delivery: KL-0165-3 KA Ball Joint Extractor Set (with 6 Forks)

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3001	Fork a=30mm, e=80mm, d=200mm - e.g. suitable for Landini Tractors	1
KL-0165-3101	Fork a=34mm, e=80mm, d=200mm	1
KL-0165-3201	Fork a=40mm, e=80mm, d=200mm - e.g. suitable for Mercedes, MAN, Scania, Volvo, etc.	1
KL-0165-3301	Fork a=42mm, e=80mm, d=200mm - e.g. suitable for Mercedes, MAN, Scania, Volvo, etc. and John Deere-Tractors	1
KL-0165-3401	Fork a=47mm, e=80mm, d=200mm	1
KL-0165-3501	Fork a=33mm, e=80mm, d=200mm - e.g. suitable for suspension ball joints MB Sprinter (1995 onwards) and VW LT (1998 onwards), upper ball joint VW T4 etc.	1
KL-0165-3090 A	Plastic Storage Case	1



KL-0165-3
Ball Joint Extractor Set (not shown)
Like the **KL-0165-3 K** however, without Storage case.

KL-0165-3 K (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor Set (with 5 Forks)

Suitable for Mercedes HGV etc.

Indispensable tool set for the quick and easy separation of ball joint connections in suspension and steering systems. The ever-increasing number of different ball joints used in today's vehicle suspension and steering systems has led to the need for an ever-widening range of ball joint extractors for separating ball joint connections from steering knuckles/stub axles and steering arms. This is mainly due to the different diameters and sizes of the ball joints. In addition, ball joints with conical pivot pins require extractors featuring extremely high stability and strength in order to achieve easy separation. When separating ball joint connections, it is decisive that the angle and the correct pressure point for the separation can be adjusted on the extractor. The **KL-0165-3 K** ball joint extractor set from Gedore Automotive offers service technicians and mechanics a tool with high stability and universal application possibilities. The extractor can easily be adjusted to the respective ball joint diameter and pivot pin height - simply by changing the forks. The ball joint extractor set is supplied in a plastic storage case.

Scope of Delivery: KL-0165-3 K Ball Joint Extractor Set (with 5 Forks)

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3001	Fork a=30mm, e=80mm, d=200mm - e.g. suitable for Landini Tractors	1
KL-0165-3101	Fork a=34mm, e=80mm, d=200mm	1
KL-0165-3201	Fork a=40mm, e=80mm, d=200mm - e.g. suitable for Mercedes, MAN, Scania, Volvo, etc.	1
KL-0165-3301	Fork a=42mm, e=80mm, d=200mm - e.g. suitable for Mercedes, MAN, Scania, Volvo, etc. and John Deere-Tractors	1
KL-0165-3401	Fork a=47mm, e=80mm, d=200mm	1
KL-0165-3090 A	Plastic Storage Case	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240

Torque Wrench Dremaster 40-200Nm



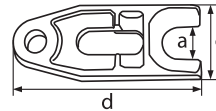
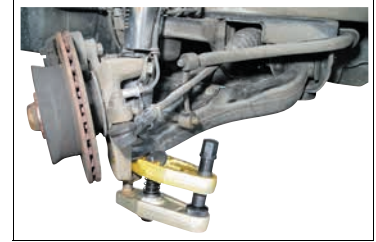
KL-0165-35 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 3

Suitable for the suspension ball joints found on Mercedes Sprinter (1995 onwards) and VW LT (1998 onwards); upper ball joints on VW T4, stabiliser ball joints on Mercedes Citaro EvoBus O 530 etc.
(Fork opening a=33mm)

The **KL-0165-35** ball joint extractor is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-35 Ball Joint Extractor, Size 3

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3501	Fork - a=33mm - e=80mm - d=200mm	1



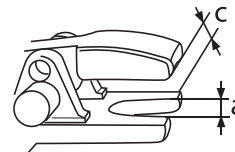
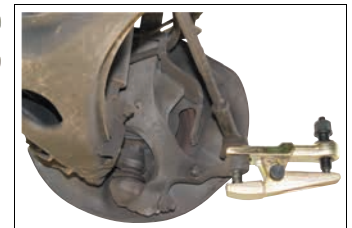
KL-0163-21 (Patented) Ball Joint Extractor (Strengthened Design)

Suitable for Alfa, VW-Audi, BMW, Fiat, Ford, Mercedes, Nissan, Opel/Vauxhall, Peugeot, Renault, Rover, Saab, Toyota, Volvo.

Designed to extract ball joint pivot pins from the steering arm, steering knuckle, anti-roll bar etc.

Scope of Delivery: KL-0163-21 Ball Joint Extractor (strengthened design)

Part No.	Description	Qty
KL-0163-2101	Fork Body	1
KL-0163-2102	Lever	1
KL-0163-2103	Pressure Screw	1
KL-0163-2104	Pin	1
KL-0163-2105	Threaded Sleeve	1



Technical Data:

a:	20mm
c:	2-stage up to 50mm

KL-0163-221 Spacer with Dowel Pins

Scope of Delivery: KL-0163-221 Spacer with Dowel Pins

Part No.	Description	Qty
KL-0163-2202	Spacer	1
KL-0163-2204	Dowel Pin	2



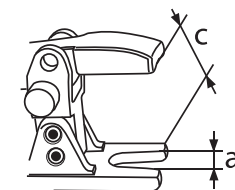
KL-0163-22 (Pat. e.g. US-Patent 7,020,944) Ball Joint Extractor (Strengthened Design)

Suitable for Opel/Vauxhall, VW Transporter, etc.

Designed to extract ball joint pivot pins from the steering arm, steering knuckle, anti-roll bar etc.

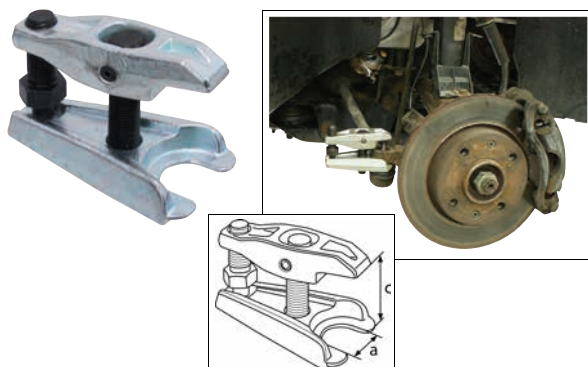
Scope of Delivery: KL-0163-22 Ball Joint Extractor (strengthened design)

Part No.	Description	Qty
KL-0163-2201	Fork Body	1
KL-0163-2202	Spacer	1
KL-0163-2203	Pressure Screw	1
KL-0163-2204	Dowel Pin, Ø 10x40mm	2
KL-0163-2102	Lever	1
KL-0163-2104	Pin	1
KL-0163-2105	Threaded Sleeve	1



Technical Data:

a:	20mm
c:	2-stage up to 95mm



KL-0162-1

(universal)

Ball Joint Extractor

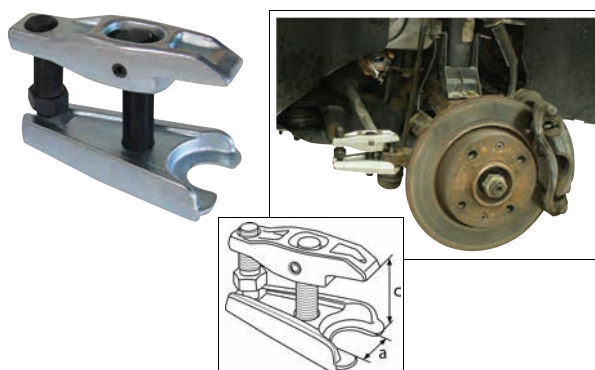
Designed to extract the track rod pivot pin from steering arms, steering knuckles, stabilisers etc.

Advantage:

Dimension c is infinitely adjustable, thus providing a wider range of applications.

Technical Data:

a:	23mm
c:	30-50mm



KL-0162-2

Ball Joint Extractor

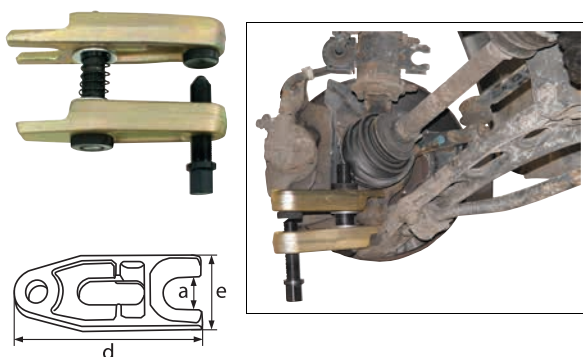
Designed to extract the track rod pivot pin from drop arms, steering knuckles, stabilizers etc.

Advantage:

Dimension c is infinitely adjustable, thus providing a wider range of applications.

Technical Data:

a:	30mm
c:	30-85mm



KL-0165-15

(Pat. e.g. US-Patent 5,906,034)

Ball Joint Extractor, Size 1

Universal application.

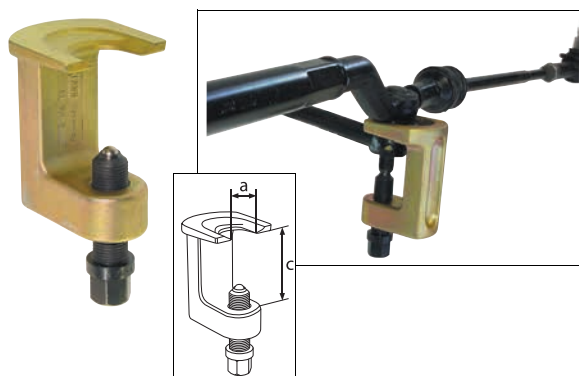
Ideal tool for suspension ball joints on Fiat Punto and BMW E90.

(Fork opening a=22mm)

The ball joint extractor **KL-0165-15** is the ideal tool for separating ball joint connections in suspension and steering systems.

Scope of Delivery: KL-0165-15 Ball Joint Extractor, Size 1

Part No.	Description	Qty
KL-0165-1502	Pressure Lever	1
KL-0165-1003	Adjusting T-Spindle (M18x1.5x110mm)	1
KL-0165-1004	Pressure Spindle (M18x1.5x70mm)	1
KL-0165-1005	Thrust Piece	1
KL-0165-1006	Adjusting Nut (M18x1.5)	1
KL-0165-1007	Spring	1
KL-0165-1008	Washer, Ø 18mm	1
KL-0165-1501	Fork a=22mm - e=80mm - d=200mm	1



KL-0164-2

Ball Joint Extractor

Ideal for use in narrow space conditions like on Audi, VW, BMW, Ford, Mercedes A-Class (W168), C-Class (W202), E-Class (W210), M-Class (W163), SLK (R170), Opel/Vauxhall etc.

Designed to extract the ball joint pivot pin from steering arms, steering knuckles, stabilisers etc. Needed when extracting the suspension ball joint pivot pin from the steering knuckle.

Technical Data:

a:	23mm
c:	55mm
Weight:	900g

Note: Only suitable for closed ball joint pivot pins or for those with centre bore hole.

KL-0164-3 Ball Joint Extractor

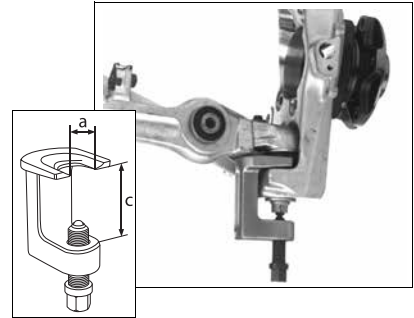
Suitable for front axle on Audi A4, A6 and A8 as well as VW Passat, Mercedes W203 etc.

Designed to extract the suspension ball joint pivot pin from the steering knuckle.

Technical Data:

a:	28mm
c:	55mm
Weight:	900g

Note: Only suitable for closed ball joint pivots pins, and for those with centre hole.



2

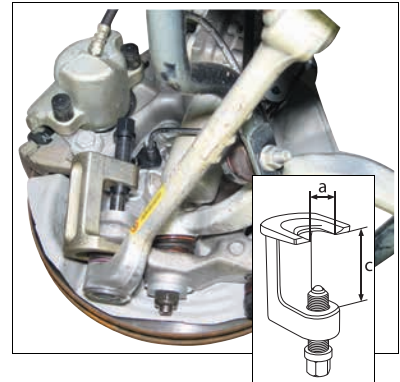
KL-0164-7 Ball Joint Extractor

Suitable for front axle on BMW 5 Series (E39), Mercedes E-Class (W211), CLS (W219), S-Class (W220) and SL (W230) lower ball joint etc.

Designed to extract the lower ball joint pivot pin out of the steering knuckle.

Technical Data:

a:	24mm
c:	55mm
Weight:	900g



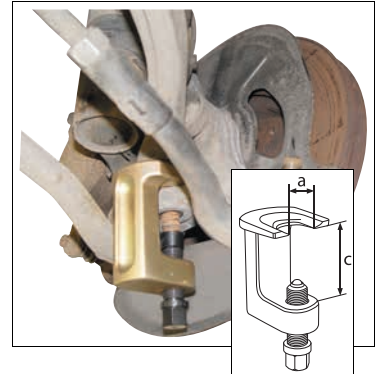
KL-0164-8 Ball Joint Extractor

Suitable for front axle on Mercedes, for example: upper and lower ball joints C-Class (W203), suspension ball joint E-Class (W210), track rod joint M-Class (W163), E-Class (W211), CLS (W219), S-Class (W220) and SL (W230) as well as on VW, for example: T5 track rod joint etc.

Designed to extract the pivot pin out of ball joint connections.

Technical Data:

a:	26mm
c:	56mm
Weight:	750g

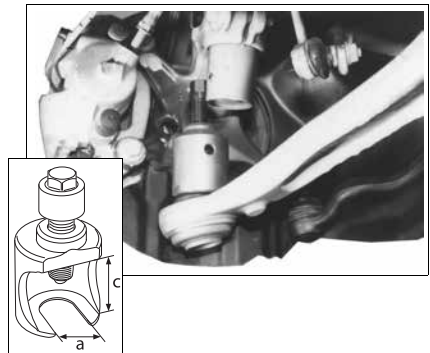


KL-0164-5 Ball Joint Extractor

Designed to extract the pivot pin of the upper/lower suspension ball joint out of the steering knuckle, for example on Mercedes W211, W220. Can also be used for pressing the outer track rod pivot pin out of the steering arm. Ideal tool for BMW E46 and Mercedes W168 etc.

Technical Data:

a:	24mm
c:	45mm
Drive:	17mm
External Ø:	55mm



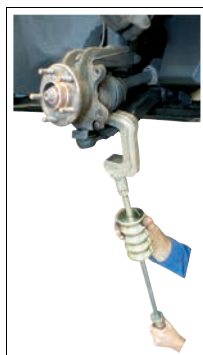
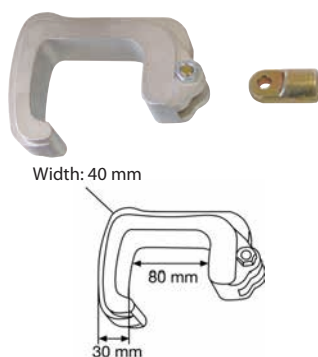
Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm





KL-0049-360

U-Type Hook, with Joint

Especially suitable for removing the wishbone from the suspension ball joint clamping hole. Used in conjunction with the slide hammer **KL-0049-31** or **KL-0049-300**. Due to its profiled shape, the hook can be positioned very close to the suspension ball joint.

Scope of Delivery: KL-0049-360 U-Type Hook, with Joint

Part No.	Description	Qty
KL-0049-3600	U-Type hook, without Joint	1
KL-0049-3502	Joint, M18	1



KL-0049-300

Slide Hammer Puller, 4.8kg (Base Tool)

The ideal tool for extracting stuck or tight-fitting components such as half-shafts, universally jointed drive shafts, injector nozzles etc. It is used in conjunction with the respective adaptors and puller bolts.

Scope of Delivery: KL-0049-300 Slide Hammer Puller, 4.8 kg (Base Tool)

Part No.	Description	Qty
KL-0049-3001	Pull Rod for KL-0049-3	1
KL-0049-3002	Hammer Weight, 4.8kg, for KL-0049-3	1
KL-0049-3003	Handle for KL-0049-3	1
KL-0049-3004	Hex Nut, M18	1

KL-0160-..

Separator Forks

These wedge-shaped forks enable the quick and easy separation of stuck ball joint pins from their conical seats.

Also suitable for removing shock absorbers as well as for loosening drop arms.

Attention: Separator Forks may damage the gaiter.



KL-0160-1

Separator Fork, 18mm

Technical Data:

Fork opening:	18mm
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KL-0160-2

Separator Fork, 23mm

Technical Data:

Fork opening:	23mm
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KL-0160-3

Separator Fork, 30mm

Technical Data:

Fork opening:	30mm
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KL-0160-4

Separator Fork, 40mm

Technical Data:

Fork opening:	40mm
---------------	------



KL-0169-1 A Track Rod Adjustment Tool

Universally suitable for track rods with tube Ø of approx. 14 to 23mm as found in passenger cars.

Designed to facilitate the loosening and adjustment of stiff track rods with tube Ø of approx. 14 to 23mm as found in passenger cars.

Thanks to the detachable tube handle, the tool length can be reduced from 420 to 250mm. This allows for convenient working even in confined space conditions in the wheel arch.

The broad serrated jaws are designed to prevent damage to the track rod.

Technical Data:

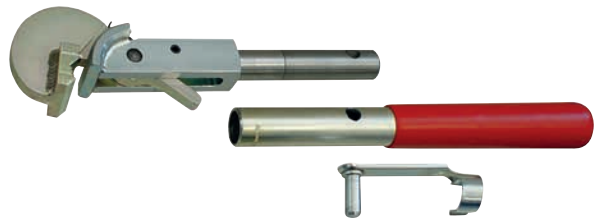
For track rod tube Ø:	approx. 14-23mm
Overall length:	420mm
Length without tube handle:	250mm

Scope of Delivery: KL-0169-1 A Track Rod Adjustment Tool

Part No.	Description	Qty
KL-0169-100	Adjustment Tool	1
KL-0169-101	Tube Handle	1

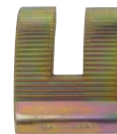
Scope of Delivery: KL-0169-101 Tube Handle

Part No.	Description	Qty
KL-0184-0103	Folding Spring Bolt	1
KL-0169-1002/2	Tube Handle	1
KL-0184-0101-1	Protective Handle Ø 25x150mm	1



KL-0169-1001 Adaptor

In conjunction with our **KL-0169-1 A** track rod adjustment tool, the **KL-0169-1001** adaptor facilitates the loosening and adjustment of stiff passenger car track rods. Simply insert the **KL-0169-1001** adaptor into the **KL-0169-1 A** adjustment tool, and the latter is also suitable for track rod tubes having a diameter of approx. 11mm or greater.



KL-0167-20 Track Rod Eccentric Socket, Ø 33-42mm

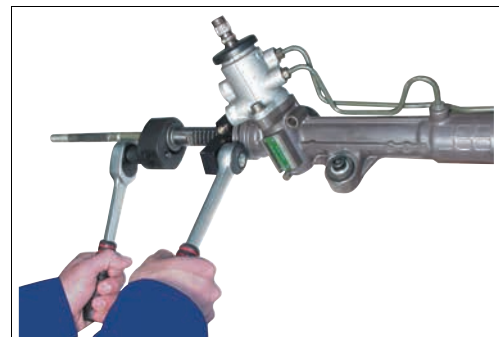
Suitable for track rod joints with Ø 33-42mm.

This tool allows for the quick and easy removal and installation of inner track rod joints.

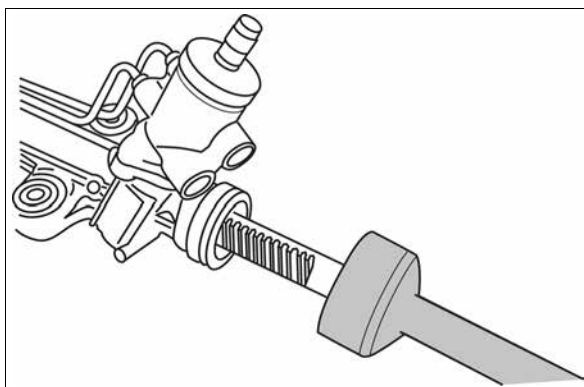
The removal of the steering gear is not necessary.

Technical Data:

Drive:	1/2"
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2



KL-0167-15 A

Universal Wrench for Inner Track Rod Joint, Ø 30-43mm

Universally suitable for all inner track rod joints with a spherical head Ø of from 30mm to 43mm.

THE ideal tool for Mercedes Sprinter, VW Crafter (Ø 43mm).

This wrench allows the quick and easy removal and installation of the specified inner track rod joints to be performed without the need for removing the complete steering system from the vehicle.

The tool stands out for its special design, the exchangeable roller inserts equipped with high-grade metal rollers and steel cage. The perfect choice for a wide range of applications. Works on spherical heads with Ø of from 30mm to 43mm.

Advantages:

- Universal tool, thanks to its very small outer diameter and large working range of from 30mm to 43mm.
- High-grade metal rollers and steel cage ensure long service life of the tool.
- Exchangeable roller inserts.

Technical Data:

Drive:	1/2"
Length:	480mm

Scope of Delivery:

KL-0167-15 A Universal Wrench for Inner Track Rod Joint, Ø 30-43mm

Part No.	Description	Qty
KL-0167-1510 A	Base Body	1
KL-0167-1510-5	Spring Clip	1
KL-0167-1512	Roller Cage, Ø 36-43mm	1
KL-0167-1511	Roller Cage, Ø 30-36mm	1
KL-0167-1512-3 A	Disc	1



KL-0167-151

Set of Mounting Tools for Inner Track Rod Joints, Ø 30-43mm

Designed for Renault vehicles.

The **KL-0167-151** tool set allows the quick and easy removal and installation of inner track rod joints to be performed without the need for removing the complete steering system. Suitable for spherical heads with diameters of from 30-43mm.

Procedure:

To counter-hold the rack, fasten the corresponding locking tools (depending on the steering type) to the rack.

Loosen and tighten the inner track rod joint with the aid of the universal wrench while keeping the rack in position using the suitable locking tool.

After the inner track rod joint has been removed, the sealing ring in the steering-gear housing can be replaced quickly and easily.

Scope of Delivery:

KL-0167-151 Set of Mounting Tools for Inner Track Rod Joints, Ø 30-43mm

Part No.	Description	Qty
KL-0167-15 A	Universal Wrench for Inner Track Rod Joint, Ø 30-43mm	1
KL-0167-131	Set of Locking Tools, Renault	1

Scope of Delivery:

KL-0167-131 Set of Locking Tools, Renault

Part No.	Description	Qty
KL-0167-1313	Locking Tool, Renault	1
KL-0167-1314	Locking Tool, Renault (KL-0167-1311 + KL-0167-1312)	1

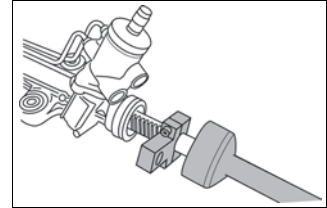
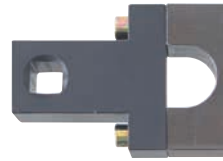
KL-0167-141

Counter-Holding Tool for Racks

Suitable for racks with a Ø of 25mm, for example found in ZF power steering systems Type 7832 (974 115) on Toyota vehicles.

Designed to counter-hold the rack when removing and installing the inner track rod joint. Used in conjunction with universal wrench **KL-0167-15**.

Any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.



KL-0121-81

Hose Clamp Pliers

Universal application. Ideal for VW-Audi etc.

Works on „earless“ hose clamps that are found on axle boots, radiator and fuel hoses.

Technical Data:

Length:	230mm
Weight:	340g



KL-0240-1

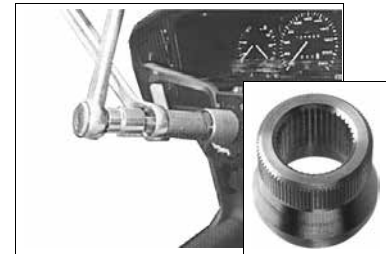
Puller for Spacer Sleeves, VW

Suitable for vehicle models from 1988 onwards, such as VW Golf (II and III), Jetta, Vento, Polo, Passat, etc.

When replacing steering column switches, it is necessary to firstly remove the steering wheel and then, extract the spacer sleeve from the cone of the steering column. The special design of the puller **KL-0240-1** ensures that its collet chuck precisely encompasses the spacer sleeve, thus enabling quick and smooth extraction of the sleeve.

Technical Data:

Clamping range:	27-30mm
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KL-0240-2

Drive-In Mandrel for Spacer Sleeves

The drive-in mandrel **KL-0240-2** made of brass allows spacer sleeves to be pushed into the steering column without risk of damage.



KL-0270-31 C

Bit Wrench, Angled, (Reinforced Design), with 8 Bit Inserts

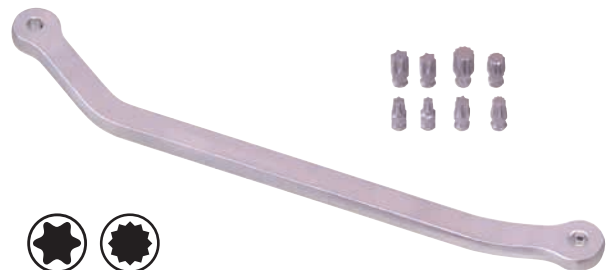
Suitable for Mercedes Toe Adjustment, e.g. on 190 Series (W201), C-Class (W202), C-Class (W203), 200-300 E (W124), E-Class (W210, W211), S-Class (W220).

The **KL-0270-31 C** wrench is the ideal tool for setting the toe at the rear axle. Due to its special shape, this tool allows the user to easily and accurately turn the adjusting screw which is particularly hard to access.

Technical Data:

Length:	320mm
Bit Insert:	T30, T40, T45, T50, T55, XZN-8, XZN-10, XZN-12
Bit Insert (height):	20mm
Bit Drive:	5/16"
Weight:	500g

* = reg. trademark of Acument Intellectual Properties, LLC. USA



2



KL-0270-304

Bit Insert Set (8-Piece Set)

Composed of 5/16" Drive Bit Inserts in Sizes:
(Torx®) T30, T40, T45, T50, T55,
XZN-M8, XZN-M10, XZN-M12

® = reg. trademark of Acument Intellectual Properties, LLC. USA



KL-0168-1

Camber Adjustment Tool Set (2-Pc)

Suitable for: VW Golf, Jetta, Seat Toledo, etc.

With extra strong spindle (M14).

This camber adjustment tool allows the mechanic to adjust and set camber angles on the vehicle single-handedly. The use of this tool not only saves a lot of time, but also eliminates the need for additional labour. The tool is placed between the car body and the wheel-rim. The camber is adjusted by rotating the hex nut.

Technical Data:

Min. span width:	135mm
Max. span width:	175mm



KL-0168-2

Camber Adjustment Tool Set (2-Pc)

Suitable for VW Polo (from 1995 onwards), Seat Cordoba etc.

With extra strong spindle (M14).

This camber adjustment tool allows the mechanic to adjust and set camber angles on the vehicle single-handedly. The use of this tool not only saves a lot of time, but also eliminates the need for additional labour. The tool is placed between the car body and the wheel-rim. The camber is adjusted by rotating the hex nut.

Technical Data:

Min span width:	155mm
Max. span width:	180mm



KL-0540-21

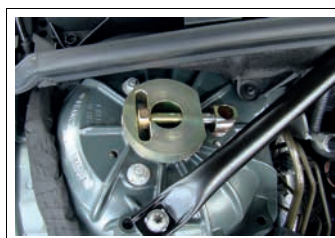
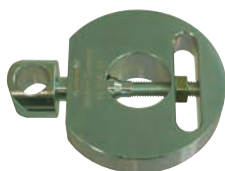
Camber Adjustment Tool

Applicable to: BMW E87 (1 Series); E46, E90 (3 Series); E39 (5 Series); E38, E65, E66, E67 (7 Series); E84 (X1); E83, F25 (X3); E53, E70 (X5) and E85 (Z4).

The camber adjustment tool **KL-0540-21** enables the accurate and quick adjustment of the front axle camber. Adjustment is carried out by accurately aligning the upper strut mount. Professional and accurate adjustment of the camber is nearly impossible without the use of this tool.

Technical Data:

Weight:	750g
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KL-0540-22

Camber Adjustment Tool, BMW

Suitable for BMW E60, E61 (5 Series) and E63, E64 (7 Series).

The camber adjustment tool **KL-0540-22** enables the accurate and quick adjustment of front axle cambers. The adjustment is carried out by accurately aligning the upper strut mount. Professional and accurate adjustment of the camber is nearly impossible without the use of this tool.

Accessories (on demand):

7 R - Combination Ratchet Spanner



KL-0326-20

4-Pin Lock Nut Socket, Mercedes

Suitable for Mercedes M-Class (W163).

For tightening the suspension ball joint lock nut on the steering knuckle/stub axle.

Technical Data:

Outer diameter:	63mm
Inner diameter:	53mm
Pin width:	7.5mm
Weight:	500g



2

KL-1340-10

4-Pin Socket, Citroën/Peugeot

Suitable for Citroën BX (model 09/'82 until '94) / Citroën C5 / Citroën Xantia; Peugeot 305 (model 7/'82 until '90) / Peugeot 405 (from model 6/'87 onwards) / Peugeot 406 / Peugeot 605 / Peugeot 607 etc.

Designed to loosen and tighten screw-fitted suspension ball joints.

Technical Data:

Drive:	1/2"
Outer diameter:	52mm
Inner diameter:	42.5mm
Tooth Width:	5.5mm
Weight:	520g



KL-1340-201

Socket, Size (waf) 41mm, Citroën/Peugeot

Suitable for Peugeot 307, 308, 3008, 5008, Partner, RCZ; Citroën Berlingo, C4 etc.

Designed to loosen and tighten screw-fitted suspension ball joints.

Technical Data:

Size:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	700g

1/2"



KL-1220-246

Socket, (waf) 46mm, Renault Master/Opel/Vauxhall Movano

Designed for Renault Master and Opel/Vauxhall Movano from 2010 onwards.

For loosening and tightening screw-fitted suspension ball joints.

Technical Data:

Size (waf):	46mm
Profile:	bi-hex
Drive:	1/2"
Length:	100mm

1/2"



Accessories (on demand):

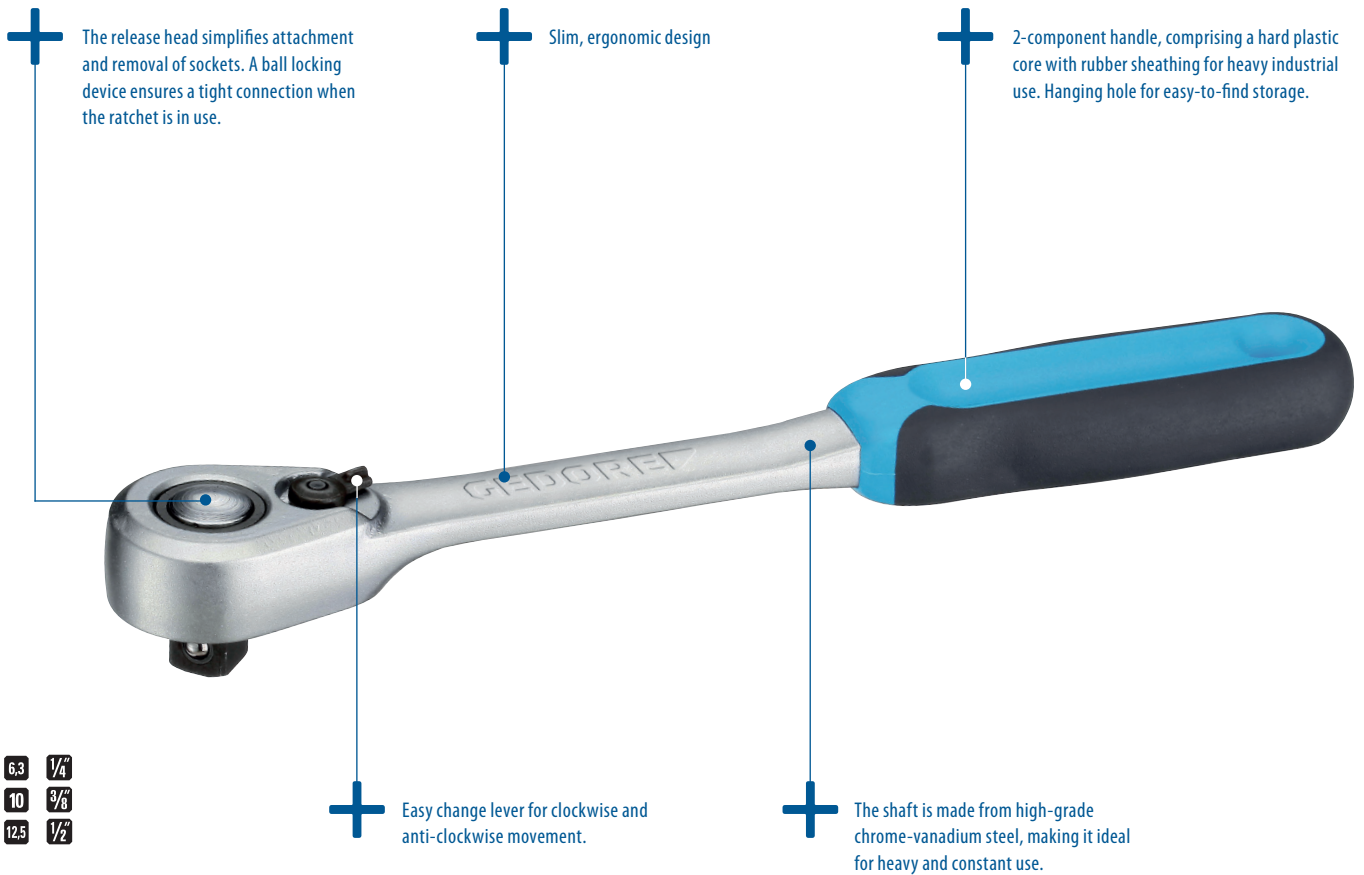
1993 U-20 CODE:1436686 - Reversible ratchet



U-20 RATCHETS

DESIGN-ORIENTED PREMIUM RATCHETS

2



6.3 1/4
10 3/8
12.5 1/2

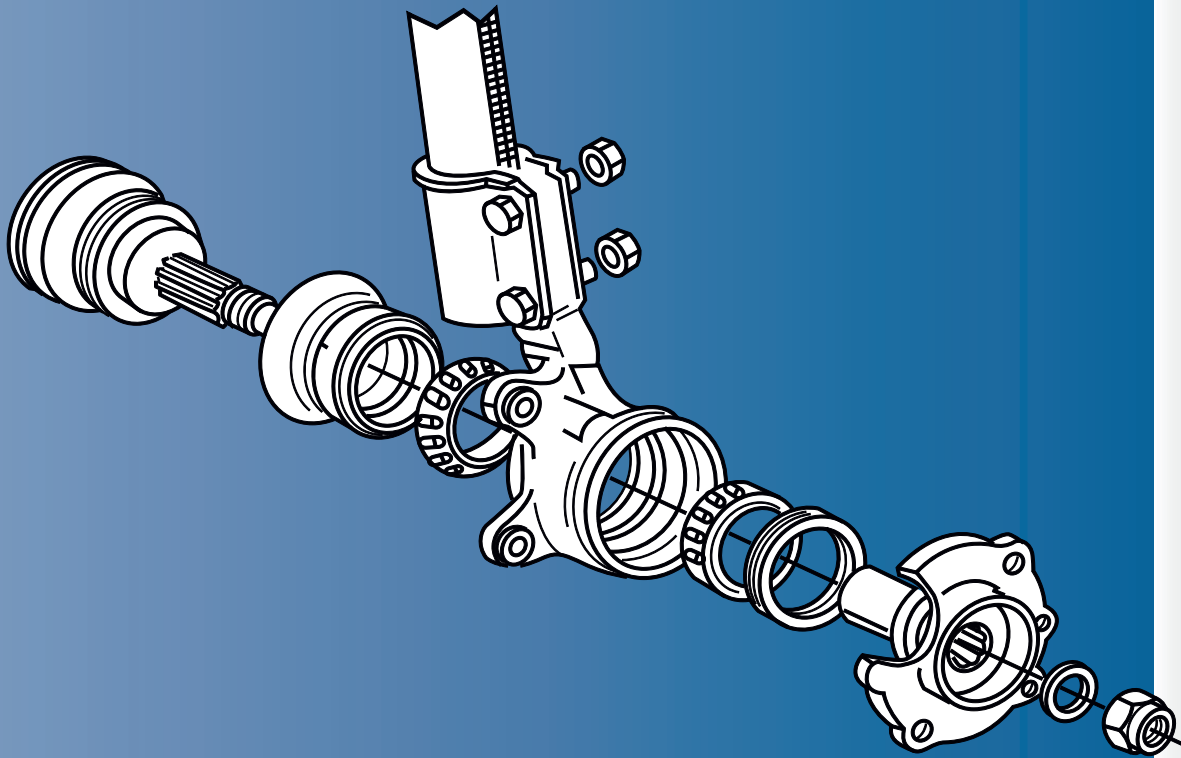
MANUFACTURING PROCESS

Front



Rear





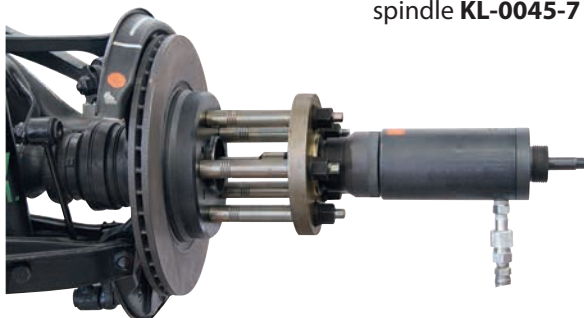
Axle Repairs e.g. Wheels, Bearings, Hubs, Drive Shafts, etc.

3

Application examples of the GEDORE Automotive modular tool system

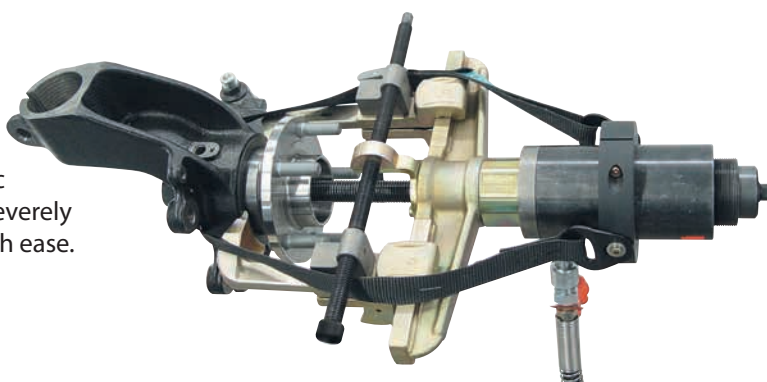
3

- ☑ Removing a **drive shaft** with the aid of a puller of the **KL-0174-... Series**.
With bonded drive shafts, you will additionally need the 12t hydraulic spindle **KL-0045-7** or the 17t hydraulic cylinder **KL-0040-2500**.

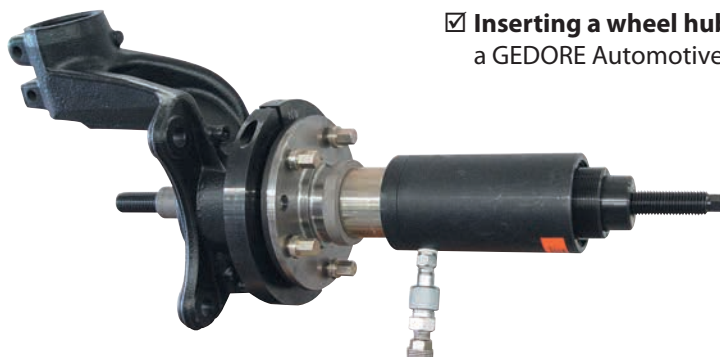


- ☑ Removing an **inner bearing race from the hub** using the **KL-0042-90** tool with the appropriate collet chuck.

- ☑ **Extracting a wheel hub bearing unit** using the **KL-0041-38** tool.
The additional use of the 17t hydraulic cylinder **KL-0040-2500** allows even severely seized wheel hubs to be extracted with ease.



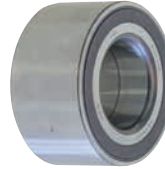
- ☑ **Inserting a wheel hub bearing unit** using a GEDORE Automotive wheel bearing tool set.



Chapter 3 overview

3.1 Wheel Bearings

Page 3.1-01 to 3.1-16



3.2 Screw-Fitted Wheel Hub Bearing Units

Page 3.2-01 to 3.2-07



3.3 Wheel Hub Bearing Units

Page 3.3-01 to 3.3-09



3.4 Wheel Hubs

Page 3.4-01 to 3.4-11



3.5 Drive Shafts

Page 3.5-01 to 3.5-09



3.6 Wheels

Page 3.6-01 to 3.6-03



The Mobile Modular Tool Storage System „MODULO“

3

The modular Tool Storage System “MODULO” provides the user with the possibility to create a versatile and mobile workplace that meets exactly their own particular needs. The workstations can be individually equipped with all the necessary “MODULO” tool kits for fast, organised and cost-effective repairs/maintenance work in the areas of:

- Engine timing/valve train, replacement of timing belts/timing chains.
- Wheel bearings, suspension ball joints, bushings.
- Changing coil springs/shock absorbers.
- Passenger car petrol- and Diesel engines.
- HGVs and light commercial vehicles.

The “MODULO” workshop trolley/workbench with its large, solid Multiplex worktop provides the user with the ideal work surface suitable for a variety of jobs; for example, by allowing for the convenient mounting of the **KL-5501** stationary spring compressor. The lateral push handle and the smooth-running castors (125mm) – two of them are steering castors with double brakes – ensure easy and mobile use of the trolley. The “MODULO” is available in various designs, with either 4 or 5 drawers all featuring an individual locking mechanism as well as a central lock designed to prevent any unintentional opening of the drawers. Each drawer has a load capacity of up to 80kg and can be pulled out completely thanks to full-extension slides. The “one-drawer-at-a-time” interlock mechanism prevents the opening of several drawers at the same time and, as a result, the trolley from tilting/tipping over. The foam inserts of the **KL-4999..-Series** are designed to keep your GEDORE Automotive tools always properly organised and well protected. This ingenious tool storage system from GEDORE Automotive allows you to find the tool you need quickly and easily, and to identify missing tools at a glance. As a result, repairs can be carried out more efficiently - saving you time and money. The foam inserts are provided with specifically tool-shaped spaces to ensure that tools are safely stored and can be taken out and put back in place with ease.

Possible equipment for ‘Wheel Bearing’ applications.



Spindle/Drive Tool Kit
KL-0039-191 E



Pressure/Support Sleeve Set
KL-0039-160 E
Ø 30-90mm



Pressure/Support Sleeve Set
KL-0039-170 E
Ø 30-90mm



Press Frame Kit
KL-0039-1161 E



Wheel Bearing Tool Set I
KL-0039-8131 E



Wheel Bearing Tool Set II
KL-0039-814 E



Puller Set KL-0174-Series
KL-0174-150 E



Wheel Hub Puller
KL-0041-380 E



Wheel Bearing Tool Kit
KL-0041-480 E



Wheel Bearing Tool Kit
KL-0041-740 E



3

The GEDORE Automotive Wheel Bearing Tool Series KL-0039-... !!!!!

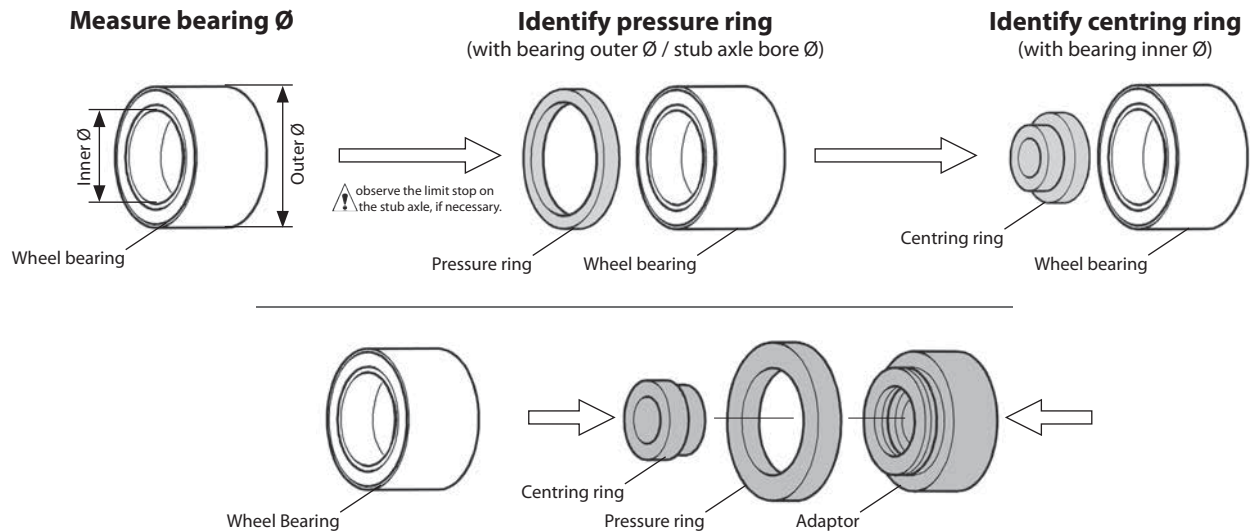
The big advantages of the unrivalled KL-0039-... Tool Series are:

- ☑ Modular system with universally combinable centring and pressure rings.
This system requires substantially fewer single parts than the conventional tool sets for axle repair.
- ☑ Possibility to complement the set universally with additional centring and pressure rings. The two possible drives (mechanical and hydraulic). The optional use of press support/sleeves and press frames.
All these features make this tool almost universal in its field of application.

Wheel Bearing Removal

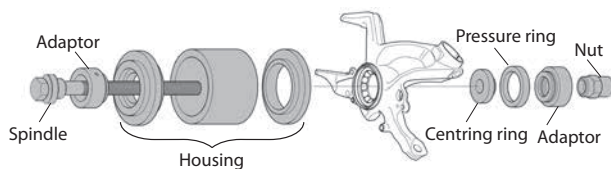
Identification of the necessary components and assembling of the tool:

- ⇒ Measuring the inner and outer bearing Ø.
- ⇒ Determination of the correct pressure and centring ring.
- ⇒ Assembling / mounting the pressure piece.

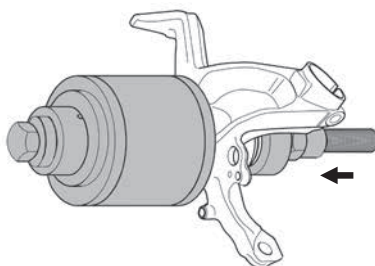


Note: The unique design of the pressure pieces enables safe and accurate centring and alignment when changing a wheel bearing. It ensures that when removing and mounting the wheel bearing, the pressing force will be applied on the outer bearing race only, and that when installing the wheel hub, the pressing force will be applied only on the inner bearing race. This prevents damage to the new wheel bearing. **The combination of centring rings and pressure rings creates pressure pieces which can accurately be adjusted to the respective bearing Ø.**

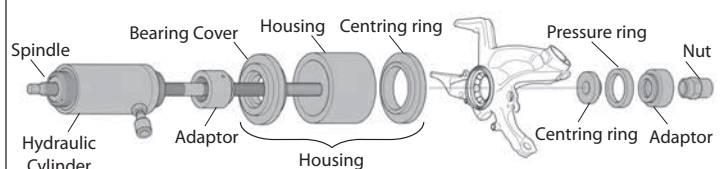
Mounting the wheel bearing tool (mechanical drive)



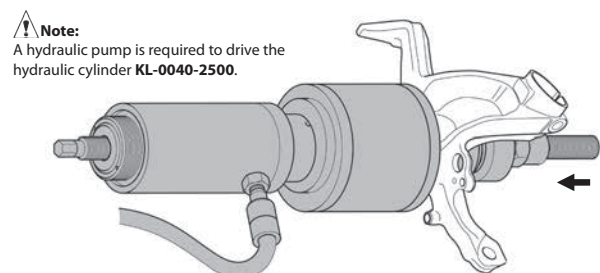
Extracting the wheel bearing (mechanically)



Mounting the wheel bearing tool (hydraulic drive)



Extracting the wheel bearing (hydraulically)



The GEDORE Automotive Wheel Bearing Tool Series KL-0039-... !!!!!

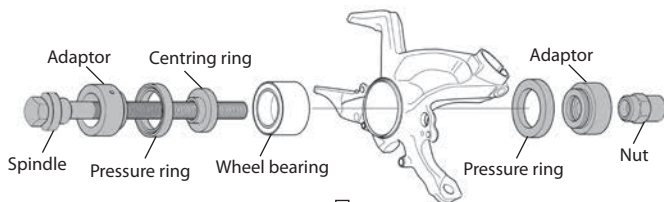
The big advantages of the unrivalled KL-0039- Tool Series are:

- ☑ Accurate alignment while inserting a wheel bearing and wheel hub.
- ☑ Substantial time and cost savings as the required tool can easily and universally be assembled as needed.

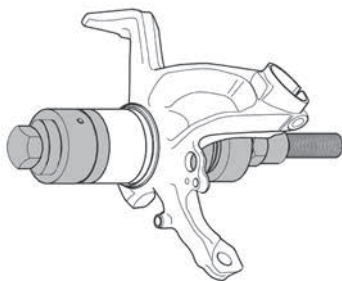
Wheel Bearing Installation

Identification of the necessary components and assembling of the tool:

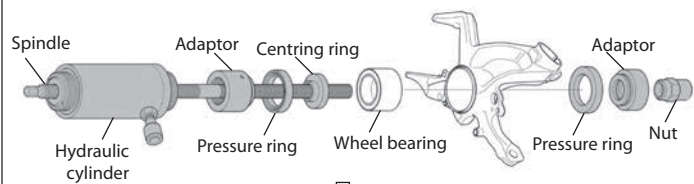
Mounting the wheel bearing tool (mechanical drive)



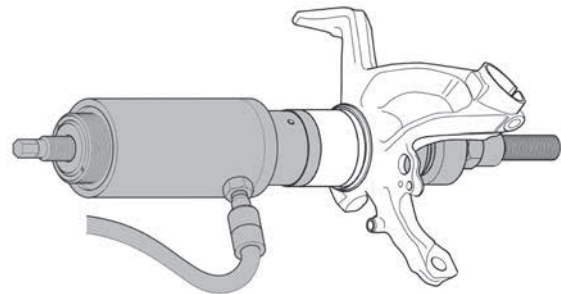
Inserting the wheel bearing (mechanically)



Mounting the wheel bearing tool (hydraulic drive)



Inserting the wheel bearing (hydraulically)



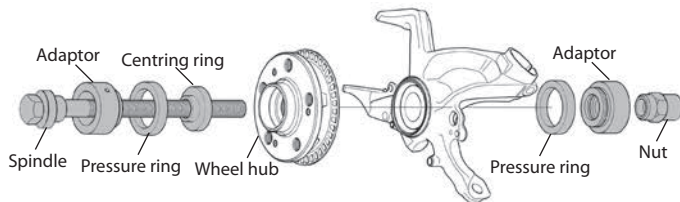
3

Wheel Hub Installation

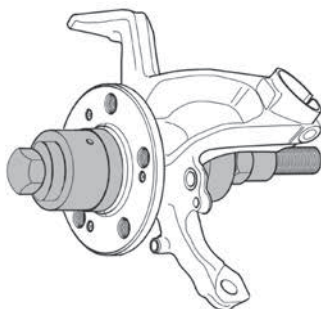
Identification of the necessary parts and assembling of the tool:

- ⇒ Identify pressure ring.
- ⇒ Identify wheel hub shoulder outer Ø; identify centring ring.
- ⇒ Identify wheel hub shoulder inner Ø; identify pressure ring (support).
- ⇒ Inner bearing race Ø.

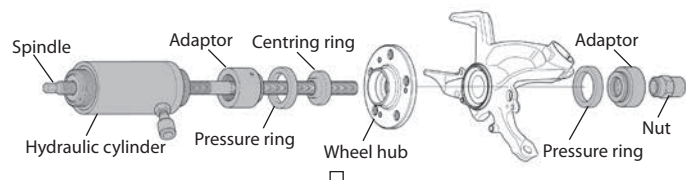
Mounting the wheel bearing tool (mechanical drive)



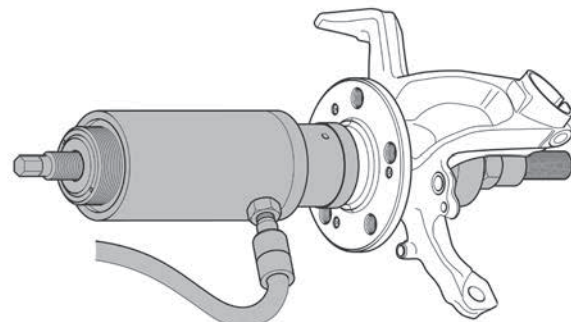
Inserting the wheel hub (mechanically)



Mounting the wheel bearing tool (hydraulic drive)



Inserting the wheel hub (hydraulically)





KL-0039-0110 K

Wheel Bearing Tool Set (Mechanical Drive), VW-Audi, BMW, Ford, Seat, Škoda, Opel/Vauxhall

Suitable for VW-Audi, BMW, Ford, Seat, Škoda, Opel/Vauxhall, etc.

Designed for the quick, safe and professional removal and installation of wheel bearings.

The unique design of the pressure discs enables safe and accurate centring and alignment when changing a wheel bearing. It ensures that when removing and mounting the wheel bearing, the pressing force will be applied on the outer bearing race only, and that when mounting the wheel hub, the pressing force will be applied only on the inner bearing race. This prevents damage to the new wheel bearing.

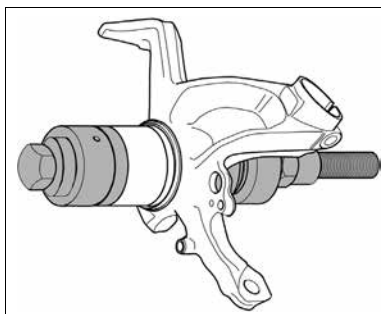
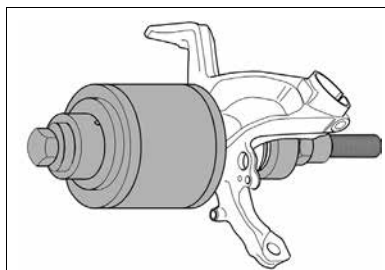
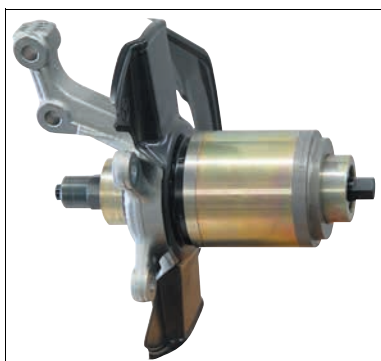
The combination of centring rings and pressure rings creates pressure pieces which can be accurately adjusted to the respective bearing Ø.

Alternatively, a hydraulic 17t drive (accessory) can be used if wheel bearings are heavily corroded or seized in place.

Thanks to the possibility to easily upgrade the tool set with other parts of the **KL-0039-... Series** such as centring and pressure rings or pressure/support sleeves, this wheel bearing tool set is virtually universally applicable. It can, for example, also be used to change suspension ball joints and silentbloks.

Note:

The wheel bearing tool set **KL-0039-0110 K** can also be operated hydraulically. For this, the set has to be used in conjunction with the hydraulic drive **KL-0039-802**, hydraulic cylinder **KL-0040-2500** and a hydraulic pump such as the **KL-0215-35 M25**. This will be necessary, for example, if wheel bearings are extremely stuck or seized in place.



Scope of Delivery: KL-0039-0110 K Wheel Bearing Tool Set

Part No.	Description	Qty
KL-0039-0110	Wheel Bearing Tool Set (with mechanical drive)	1
KL-0039-0119	Plastic Storage Case	1

Scope of Delivery: KL-0039-0110 Wheel Bearing Tool Set, with Mechanical Drive

Part No.	Description	Qty
KL-0039-140	Housing Set	1
KL-0039-0101	Pressure/Centring Ring Set, (16-piece)	1
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1
KL-0039-1002	Retaining Adaptor with O-Ring for Clamping Nut and Pressure Spindle	1
KL-0040-3008	Pull Spindle	1
KL-0040-3009	Clamping Nut	1

Scope of Delivery: KL-0039-140 Housing Set

Part No.	Description	Qty
KL-0039-1401	Bearing Cover	1
KL-0039-1402	Housing	1
KL-0039-1413	Centring Ring, Ø 70mm	1
KL-0039-1414	Centring Ring, Ø 75mm	1
KL-0039-1415	Centring Ring, Ø 80mm	1

Scope of Delivery: KL-0039-0101 Pressure-/Centring Ring Set (16-Piece Set)

Part No.	Description	Qty
KL-0039-1260	Pressure Ring, Ø 60mm	1
KL-0039-1264	Pressure Ring, Ø 64mm	1
KL-0039-1268	Pressure Ring, Ø 68mm	1
KL-0039-1272	Pressure Ring, Ø 72mm	1
KL-0039-1274	Pressure Ring, Ø 74mm	1
KL-0039-1280	Pressure Ring, Ø 80mm	1
KL-0039-1282	Pressure Ring, Ø 82mm	1
KL-0039-1285	Pressure Ring, Ø 85mm	1
KL-0039-1334	Centring Ring, Ø 34mm	1
KL-0039-1338	Centring Ring, Ø 38mm	1
KL-0039-1339	Centring Ring, Ø 39mm	1
KL-0039-1340	Centring Ring, Ø 40mm	1
KL-0039-1341	Centring Ring, Ø 41mm	1
KL-0039-1342	Centring Ring, Ø 42mm	1
KL-0039-1343	Centring Ring, Ø 43mm	1
KL-0039-1345	Centring Ring, Ø 45mm	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



7 R - Combination Ratchet Spanner



KL-0039-0100

Wheel Bearing Tool Set, without Hydraulic Cylinder, VW-Audi, BMW, Ford, Seat, Škoda, Opel/Vauxhall

Suitable for VW-Audi, BMW, Ford, Seat, Škoda, Opel/Vauxhall, etc.

Designed for the quick, accurate and safe removal and installation of wheel bearings. Even heavily seized or corroded wheel bearings can easily be removed using the **KL-0039-0100** tool set. For this, the hydraulic cylinder **KL-0040-2500** is necessary. The unique design of the pressure discs enables safe and accurate centring and alignment when changing a wheel bearing. It ensures that when removing and mounting the wheel bearing, the pressing force will be applied on the outer bearing race only, and that when installing the wheel hub, the pressing force will be applied only on the inner bearing race. This prevents damage to the new wheel bearing. The combination of centring rings and pressure rings creates pressure pieces which can accurately be adjusted to the respective bearing Ø. Thanks to the possibility to upgrade the tool set with other parts of the **KL-0039-.. Series** such as centring and pressure rings or pressure/support sleeves, this wheel bearing tool set is virtually universally applicable. It can, for example, also be used to change suspension ball joints and silentblobs.

Scope of Delivery: KL-0039-0100 Wheel Bearing Tool Set, without Hydr. Cyl.

Part No.	Description	Qty
KL-0039-101	Wheel Bearing Tool Drive Set without Hydraulic Cylinder	1
KL-0039-0101	Pressure/Centring Ring Set (16-piece)	1

Scope of Delivery: KL-0039-101 Wheel Bearing Tool Drive Set, without Hydr. Cyl.

Part No.	Description	Qty
KL-0039-802	Hydraulic Drive without Hydraulic Cylinder	1
KL-0039-140	Housing Set	1

**Scope of Delivery: KL-0039-0101 Pressure-/Centring Ring Set (16-Piece Set),
VW-Audi, BMW, Ford, Seat, Škoda, Opel/Vauxhall**

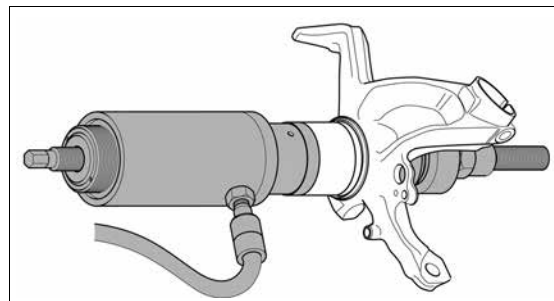
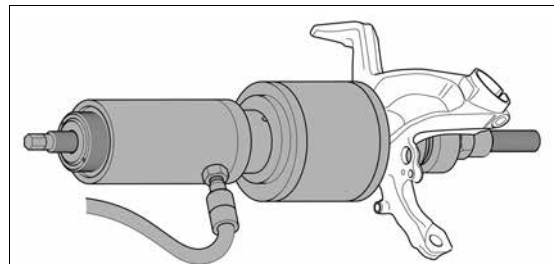
Part No.	Description	Qty
KL-0039-1260	Pressure Ring, Ø 60mm	1
KL-0039-1264	Pressure Ring, Ø 64mm	1
KL-0039-1268	Pressure Ring, Ø 68mm	1
KL-0039-1272	Pressure Ring, Ø 72mm	1
KL-0039-1274	Pressure Ring, Ø 74mm	1
KL-0039-1280	Pressure Ring, Ø 80mm	1
KL-0039-1282	Pressure Ring, Ø 82mm	1
KL-0039-1285	Pressure Ring, Ø 85mm	1
KL-0039-1334	Centring Ring, Ø 34mm	1
KL-0039-1338	Centring Ring, Ø 38mm	1
KL-0039-1339	Centring Ring, Ø 39mm	1
KL-0039-1340	Centring Ring, Ø 40mm	1
KL-0039-1341	Centring Ring, Ø 41mm	1
KL-0039-1342	Centring Ring, Ø 42mm	1
KL-0039-1343	Centring Ring, Ø 43mm	1
KL-0039-1345	Centring Ring, Ø 45mm	1

Scope of Delivery: KL-0039-802 Hydraulic Drive Kit without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920	Pull Spindle, M20, with Clamping Nut	1

Scope of Delivery: KL-0039-140 Housing Set

Part No.	Description	Qty
KL-0039-1401	Bearing Cover	1
KL-0039-1402	Housing	1
KL-0039-1413	Centring Ring, Ø 70mm	1
KL-0039-1414	Centring Ring, Ø 75mm	1
KL-0039-1415	Centring Ring, Ø 80mm	1



KL-0039-812

Wheel Bearing Tool Set (Without Drive), VW/Audi

Suitable for VW-Audi, for example, Audi A3 (8L), A4 (B5), A4 Quattro (B6) HA, A6 (4A, 4B), A8 (4D, 4E), TT (8N, 8J), Q7 (4L); VW Polo (6N), Golf (II, III, IV), Passat, Sharan, T4, Touareg II (7P) and Porsche Cayenne.

Designed for the quick, safe and professional removal and installation of wheel bearings. Thanks to the possibility to easily upgrade this tool set with other parts of the **KL-0039-... Series**, this wheel bearing tool can be used almost universally. To drive the wheel bearing tool, either the mechanical or the hydraulic drive set will be needed.

Scope of Delivery: KL-0039-812 Wheel Bearing Tool Set (Without Drive)

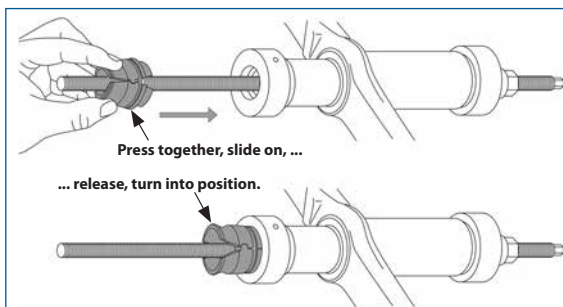
Part No.	Description	Qty
KL-0039-1401	Bearing Cover	1
KL-0039-1402	Housing	1
KL-0039-1413	Centring Ring, Ø 70mm	1
KL-0039-1414	Centring Ring, Ø 75mm	1
KL-0039-1415	Centring Ring, Ø 80mm	1
KL-0039-1265	Pressure Ring, Ø 65mm	1
KL-0039-1266	Pressure Ring, Ø 66mm	1
KL-0039-1267	Pressure Ring, Ø 67mm	1
KL-0039-1270	Pressure Ring, Ø 70mm	1
KL-0039-1272	Pressure Ring, Ø 72mm	1
KL-0039-1274	Pressure Ring, Ø 74mm	1
KL-0039-1275	Pressure Ring, Ø 75mm	1
KL-0039-1276	Pressure Ring, Ø 76mm	1
KL-0039-1278	Pressure Ring, Ø 78mm	1
KL-0039-1279	Pressure Ring, Ø 79mm	1
KL-0039-1280	Pressure Ring, Ø 80mm	1
KL-0039-1281	Pressure Ring, Ø 81mm	1
KL-0039-1282	Pressure Ring, Ø 82mm	1
KL-0039-1283	Pressure Ring, Ø 83mm	1
KL-0039-1285	Pressure Ring, Ø 85mm	1
KL-0039-1296	Pressure Ring, Ø 96mm	1
KL-0039-1334	Centring Ring, Ø 34mm	1
KL-0039-1335	Centring Ring, Ø 35mm	1
KL-0039-1337	Centring Ring, Ø 37mm	1
KL-0039-1339	Centring Ring, Ø 39mm	1
KL-0039-1340	Centring Ring, Ø 40mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1
KL-0039-1505	Adaptor Ring, (cylindrical)	1

KL-0039-23 - Set of Quick-Action Clamping Nuts (5-pc.)

Universally suitable for the tools of the KL-0039..Wheel Bearing/Silenbloc Tool..Series with pull spindles having either an M10x1.25, M12, M14, M16 or M20 retaining thread.

Thanks to their special design, the quick-action clamping nuts can be adjusted simply by sliding them on the pull spindle without any rotational movement.

This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.



For scope of delivery, please see page 145.

KL-0039-22 - Set of Quick-Action Clamping Nuts (4-pc.). Like KL-0039-23, but without Quick-Action Clamping Nut M16.

KL-0039-85

Wheel Bearing Tool Set with Hydraulic Cylinder, BMW

Suitable for BMW 3 Series (E30, E36, F30); 5 Series (E34, E39); 7 Series (E32, E38) etc.

This tool set allows the quick and professional removal and installation of drive shafts, wheel hubs and wheel bearings to be performed in situ on the vehicle.

Scope of Delivery: KL-0039-85 Wheel Bearing Tool Set with Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-850	Wheel Bearing Tool Set without Hydraulic Cylinder, BMW	1
KL-0039-802	Hydraulic Drive without Hydr. Cyl.	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery: KL-0039-850 Wheel Bearing Tool Set without Hydr. Cyl.

Part No.	Description	Qty
KL-0174-910	Wheel Hub/Drive Shaft Tool, without Hydraulic Cylinder	1
KL-0039-810 A	Wheel Bearing Tool Set (Without Drive), BMW	1

Scope of Delivery: KL-0174-910 Wheel Hub / Drive Shaft Tool, without Hydr. Cyl.

Part No.	Description	Qty
KL-0174-113	Puller Set with Slide Hammer	1
KL-0174-911	Upgrade Kit (Drive Shaft Removal)	1
KL-0415-610	Upgrade Kit (Drive Shaft Installation)	1

Scope of Delivery: KL-0174-113 Puller Set with Slide Hammer

Part No.	Description	Qty
KL-0174-240	Perforated Puller Plate, Size 2	1
KL-0174-723	Puller Bolt, Type B, M12x1.5 (l=100)	4
KL-0174-724	Puller Bolt, Type B, M14x1.5 (l=100)	4
KL-0174-727	Puller Bolt, Type B, M14x1.25 (l=100)	3
KL-0174-701	Hex Shoulder Nut, M14	4
KL-0049-31	Slide Hammer, 4,8kg	1

Scope of Delivery: KL-0174-911 Upgrade Kit (Drive Shaft Removal)

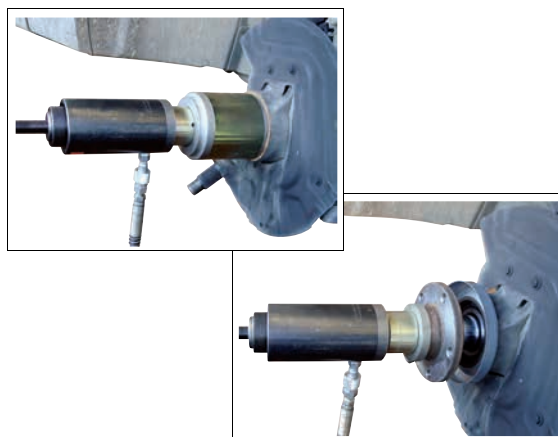
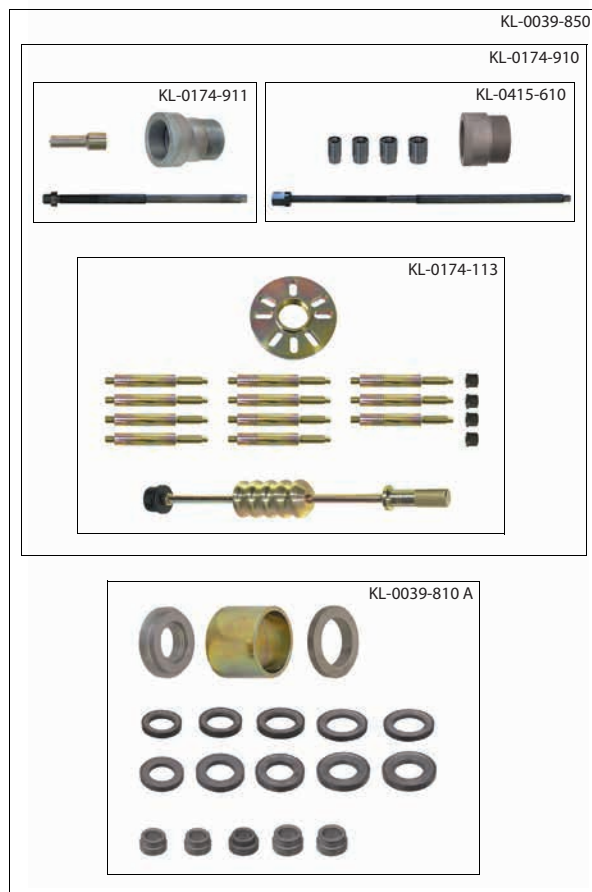
Part No.	Description	Qty
KL-0174-559	Adaptor 2 1/4"-14 UNS to 2 1/4"-14 UNS	1
KL-0039-1930	Pressure Spindle M20x350mm, with O-Ring	1
KL-0039-1935	Thrust Piece	1

Scope of Delivery: KL-0415-610 Upgrade Kit (Drive Shaft Installation), BMW

Part No.	Description	Qty
KL-0174-563	Adaptor 2 1/4"-14 UNS to Ø 60mm	1
KL-0040-2242-1	Pull spindle M16x590mm	1
KL-0039-1916-2	Shoulder nut M16	1
KL-0415-0008	Adaptor M24x1.5	1
KL-0415-0009	Adaptor M30x1.5	1
KL-0415-0010	Adaptor M22x1.5	1
KL-0415-0011	Adaptor M27x1.5	1

Scope of Delivery: KL-0039-810 A Wheel Bearing Tool Set (Without Drive), BMW

Part No	Description	Qty
KL-0039-1401	Bearing Cover	1
KL-0039-1402	Housing	1
KL-0039-1415	Centring Ring, Ø 80mm	1
KL-0039-1260	Pressure Ring, Ø 60mm	1
KL-0039-1264	Pressure Ring, Ø 64mm	1
KL-0039-1272	Pressure Ring, Ø 72mm	1
KL-0039-1274	Pressure Ring, Ø 74mm	1
KL-0039-1275	Pressure Ring, Ø 75mm	1
KL-0039-1280	Pressure Ring, Ø 80mm	1
KL-0039-1281	Pressure Ring, Ø 81mm	1
KL-0039-1283	Pressure Ring, Ø 83mm	1
KL-0039-1285	Pressure Ring, Ø 85mm	1
KL-0039-1290	Pressure Ring, Ø 90mm	1
KL-0039-1339	Centring Ring, Ø 39mm	1
KL-0039-1342	Centring Ring, Ø 42mm	1
KL-0039-1345	Centring Ring, Ø 45mm	1
KL-0039-1349	Centring Ring, Ø 49mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1



Scope of Delivery:

KL-0039-802 Hydraulic Drive Kit without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydr. Cyl.	1
KL-0039-1920	Pull Spindle, M20, with Clamping Nut	1

3



KL-0039-811

Wheel Bearing Tool Set (Without Drive)

Suitable for Mercedes, e.g. 190 Series (W201), A-Class (W168, W169), B-Class (W245), W124, C-Class (W202, W203), E-Class (W210), M-Class (W163, W164), S-Class (W140), V-Class (W639).

For the quick, safe and professional removal and installation of wheel bearings. Thanks to the possibility to easily upgrade the tool set with other parts of the **KL-0039-... Series**, this wheel bearing tool can be used almost universally. To drive the wheel bearing tool, either the mechanical or the hydraulic drive set will be needed.

Scope of Delivery: KL-0039-811 Wheel Bearing Tool Set (Without Drive)

Part No.	Description	Qty	Part No.	Description	Qty
KL-0039-1401	Bearing Cover	1	KL-0039-1287	Pressure Ring, Ø 87mm	1
KL-0039-1402	Housing	1	KL-0039-1288	Pressure Ring, Ø 88mm	1
KL-0039-1403	Housing	1	KL-0039-1290	Pressure Ring, Ø 90mm	1
KL-0039-1415	Centring Ring, Ø 80mm	1	KL-0039-1342	Centring Ring, Ø 42mm	1
KL-0039-1266	Pressure Ring, Ø 66mm	1	KL-0039-1345	Centring Ring, Ø 45mm	1
KL-0039-1270	Pressure Ring, Ø 70mm	1	KL-0039-1349	Centring Ring, Ø 49mm	1
KL-0039-1273	Pressure Ring, Ø 73mm	1	KL-0039-1350	Centring Ring, Ø 50mm	1
KL-0039-1275	Pressure Ring, Ø 75mm	1	KL-0039-1354	Centring Ring, Ø 54mm	1
KL-0039-1279	Pressure Ring, Ø 79mm	1	KL-0039-1501	Centring Ring	1
KL-0039-1283	Pressure Ring, Ø 83mm	1	KL-0039-1502	Pressure Ring, Ø 93mm	1
KL-0039-1284	Pressure Ring, Ø 84mm	1	KL-0039-1506	Centring Ring, Ø 60mm	1
KL-0039-1285	Pressure Ring, Ø 85mm	1			

KL-0039-210

Wheel Bearing Tool Set with Hydr. Cyl., Mercedes W639 Rear Axle

Suitable for Mercedes Benz Vito/Viano (W639) rear axle. (bearing external Ø 92mm / internal Ø 50mm)

Designed for the quick, safe and professional removal and installation of wheel bearings as well as for the installation of wheel hubs on rear axle wishbones without the need for removing the latter from the vehicle. The special design of the press pieces enables safe and accurate centring and alignment when changing wheel bearings. It ensures that when removing and mounting the wheel bearing, the pressing force will be applied on the outer bearing race only, and that when mounting the wheel hub, the pressing force will be applied only on the inner bearing race. This prevents damage to the new wheel bearing. The combination of centring rings and pressure rings creates press pieces which can be adjusted accurately to the respective bearing Ø. Thanks to the possibility to upgrade the tool set with other parts of the **KL-0039-... Series** such as centring and pressure rings or press/support sleeves, this wheel bearing tool is almost universal in its field of application. It can, for example, also be used to change suspension ball joints and silentblobs.

Scope of Delivery: KL-0039-210 Wheel Bearing Tool Set with Hydr. Cyl.

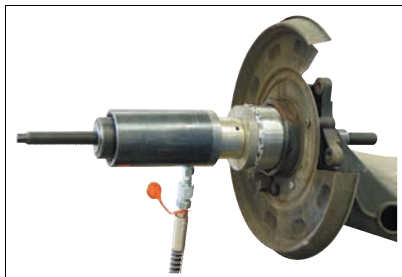
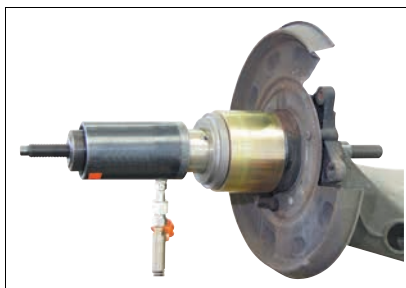
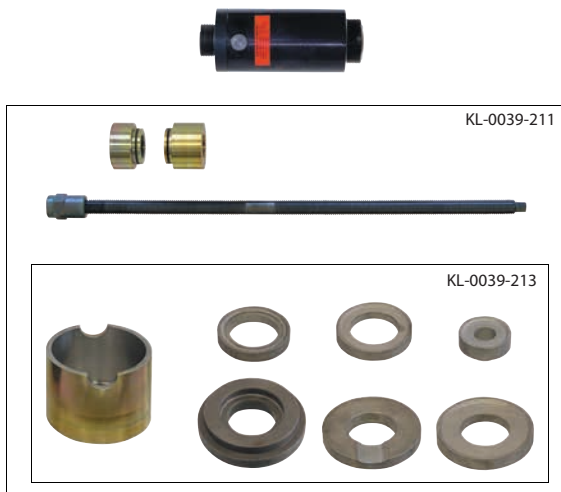
Part No.	Description	Qty
KL-0039-211	Wheel Bearing Tool Set without Hydr. Cyl., Mercedes W639 Rear Axle	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery: KL-0039-211 Wheel Bearing Tool Set without Hydr. Cylinder

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920	Pull Spindle, M20, with Clamping Nut	1
KL-0039-213	Sleeve Set, Mercedes W639 Rear Axle	1

Scope of Delivery: KL-0039-213 Sleeve Set, Mercedes W639 Rear Axle

Part No.	Description	Qty
KL-0039-1270	Pressure Ring, Ø 70mm	1
KL-0039-1273	Pressure Ring, Ø 73mm	1
KL-0039-1350	Centring Ring, Ø 50mm	1
KL-0039-1403	Housing	1
KL-0039-1501	Centring Ring	1
KL-0039-1502	Pressure Ring, Ø 93mm	1
KL-0039-1401	Bearing Cover	1



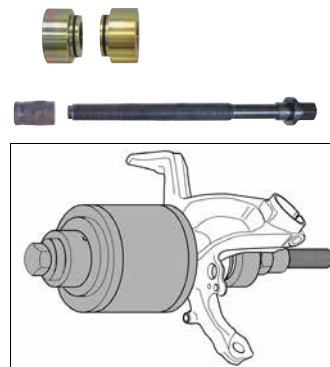
KL-0039-801

Mechanical Drive Kit, 260mm

Necessary to mechanically operate the wheel bearing tools of the **KL-0039-.. Series**. The ball bearing and the integrated guide of the pull spindle and clamping nut in the adaptor enable professional and efficient working, even if wheel bearings are seized in place.

Scope of Delivery: KL-0039-801 Mechanical Drive Kit

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1
KL-0040-3008	Pull Spindle (overall length: 290mm)	1
KL-0040-3009	Clamping Nut	1



KL-0039-801 A

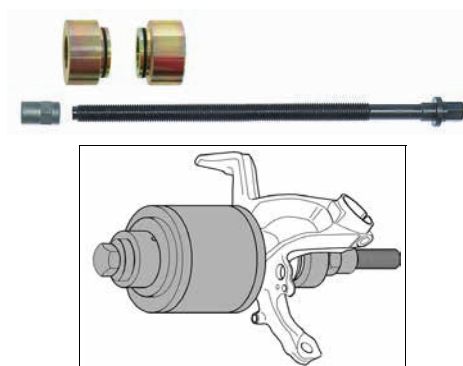
Mechanical Drive Kit, 390mm

Necessary to mechanically operate the wheel bearing tools of the **KL-0039-..** and **KL-0041-4.. Series**.

The ball bearing and the integrated guide of the pull spindle and clamping nut in the retaining adaptor ensure professional and efficient working.

Scope of Delivery: KL-0039-801 A Mechanical Drive Kit, 390mm

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1
KL-0039-2030	Pull Spindle, M20 (overall length: 420mm)	1
KL-0040-3009	Clamping Nut	1



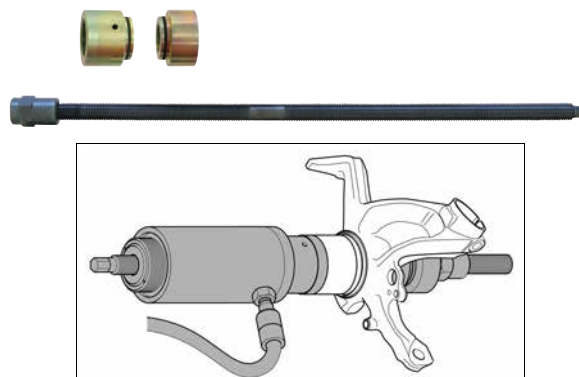
KL-0039-802

Hydraulic Drive Kit without Hydr. Cyl.

This kit is designed to hydraulically operate the wheel bearing tool sets of the **KL-0039-.. Series** in conjunction with the 17t hydraulic cylinder **KL-0040-2500** and a hydraulic pump such as **KL-0215-35 M25** or **KL-0215-37 M25**; indispensable for heavily seized wheel bearings. The special design of the two retaining adaptors ensures accurate and safe guidance and centring of the hydraulic cylinder and clamping nut relative to the wheel bearing tool.

Scope of Delivery: KL-0039-802 Hydraulic Drive Kit without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920	Pull Spindle, M20, with Clamping Nut	1



KL-0040-3008

Pull Spindle, M20

Technical Data:

Overall length:	290mm
Drive:	19mm
Max. load:	20t



KL-0039-2030

Pull Spindle, M20

Technical Data:

Overall length:	420mm
Drive:	19mm
Max. load:	20t



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet

7 R - Combination Ratchet Spanner





Note: For quick-action clamping nuts, please refer to page 92.

KL-0040-3009

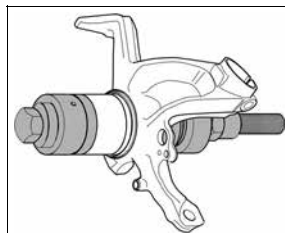
Clamping Nut, M20

Technical Data:

Overall length:	50mm
Drive:	30mm

3

Ball bearing

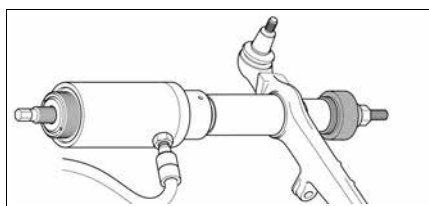


KL-0039-1011

Retaining Adaptor for Mechanical Spindle

This tool is necessary to retain the various **KL-0039-..** and **KL-0043-..** pressure/support sleeves if these are to be used with the mechanical drive.

The built-in ball bearing allows for accurate and professional working, even under intensive load.



KL-0039-1002

Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle

This adaptor is necessary for retaining the various pressure/support sleeves of the **KL-0039-..** and **KL-0043-.. Series**.

Retaining Ø for clamping nut or pressure spindle: 20mm



KL-0039-800 K

Hydraulic Drive Kit

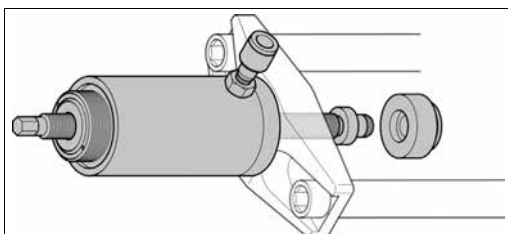
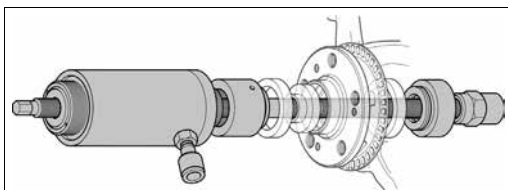
The kit is designed to upgrade our mechanical tool sets such as the pulling devices for silentbloc **KL-0039-412 K** and **KL-0039-413 K**, wheel bearing tool set **KL-0039-0110 K** and puller series **KL-0174-..** so as to enable these to be driven by the 17t hydraulic cylinder **KL-0040-2500**.

Due to its special design as a hollow piston cylinder and thanks to the possibility to be used in conjunction with various spindles, the **KL-0040-2500** hydraulic cylinder is suitable for pulling and pushing operations. Even severely seized bearings, bushes or drive shafts can be removed and installed quickly and with ease using the 17t drive kit.

Scope of Delivery:

KL-0039-800 K Hydraulic Drive Kit

Part No.	Description	Qty
KL-0039-1912	Pull Spindle, M12, with Nut	1
KL-0039-1914	Pull Spindle, M14, with Nut	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
KL-0039-1935	Thrust Piece	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder (17t)	1
KL-0039-8009	Plastic Storage Case	1



KL-0040-2500

Hydraulic Cylinder (17t)

Thanks to its special design as a hollow piston cylinder, the **KL-0040-2500** hydraulic cylinder (17t) can be used to perform pulling as well as pushing operations in conjunction with the corresponding spindles available as accessories.

Range of Use:

In conjunction with various GEDORE Automotive tools, the hydraulic-cylinder (17t) **KL-0040-2500** can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentblocs and suspension ball joints.

Technical Data:

Maximum admissible force:	170kN (17t)
Maximum stroke:	45mm
Maximum oil pressure:	700bar
Maximum volume of oil:	122cm ³
Piston area:	27cm ²
Thread in hollow piston:	M20
Retaining thread (pushing side):	2¼"-14 UNS
Retaining thread (pulling side):	M42x2
Cylinder external diameter:	80mm
Cylinder overall length (piston retracted):	202mm
Cylinder overall length (piston extended):	247mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	5.2kg



Note:

A hydraulic pump is needed to drive the hydraulic cylinder **KL-0040-2500**. For accessories such as coupling, hydraulic pump, pressure gauge etc., please refer to chapter 4 in this Catalogue.



KL-0040-2500 K

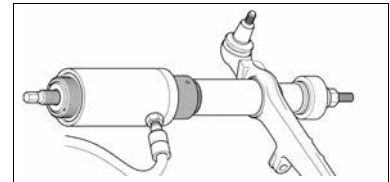
Hydraulic Cylinder (17 t), in a Plastic Storage Case

Like the **KL-0040-2500**, but supplied in a Plastic Storage Case.

KL-0039-1003

Retaining Adaptor with O-Rings, for Hydraulic Cylinder

This adaptor is needed to retain the various **KL-0039-..** and **KL-0043-..** pressure/support sleeves if these are to be used with the hydraulic cylinder **KL-0040-2500**. (Connection thread: M42x2)



KL-0039-1005

Adaptor, Ø 35mm

The **KL-0039-1005** adaptor upgrades the **KL-0040-2500** GEDORE Automotive hydraulic cylinder (17t) by making it suitable also for use on the tools of the wheel bearing/silentbloc tool series having an internal retaining Ø of 35mm. For this, the **KL-0039-1003** retaining adaptor is also necessary.

Technical Data:

External Ø:	35mm
Internal Ø:	20.5mm
Height:	16mm

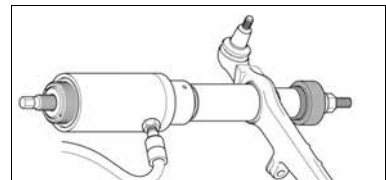


KL-0039-1002

Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle

This adaptor is necessary for retaining the various pressure/support sleeves of the **KL-0039-..** and **KL-0043-.. Series**.

Retaining Ø for clamping nut or pressure spindle: 20mm





KL-0039-1920

[German Utility Model]

Pull Spindle, M20, with Clamping Nut

Scope of Delivery: KL-0039-1920 Pull Spindle, M20

Part No.	Description	Qty
KL-0039-1920-1	Pull Spindle M20	1
KL-0040-3009	Clamping Nut	1

Technical Data:

Overall length:	590mm
Working travel:	390mm
Maximum load capacity:	20t



KL-0039-2120

[German Utility Model]

Pull Spindle, M20, with Quick-Action Clamping Nut

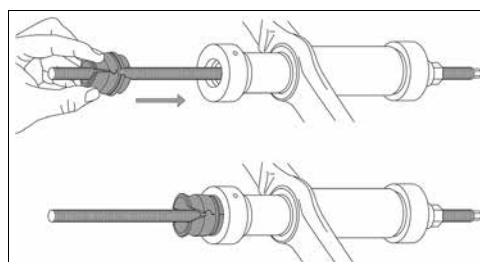
The pull spindle with quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** and the **KL-0040-2500** hydraulic cylinder (17t) to allow bearings, bushings, joints etc. to be removed and installed hydraulically. Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.

Technical Data:

Overall length:	590mm
Drive:	390mm
Max. load capacity:	20t

Scope of Delivery: KL-0039-2120 Pull Spindle M20, with Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-1920-1	Pull Spindle, M20	1
KL-0039-2120-2	Quick-Action Clamping Nut, M20	1



Technical Data:

Pin Ø:	20mm
Overall length:	350mm
Maximum load capacity:	20t

KL-0039-1930

Pressure Spindle with O-Ring, M20x350mm



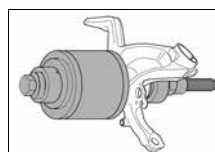
Technical Data:

Length:	590mm
Thread:	M20
Max. load capacity:	20t

KL-0040-2846-1

Pull Spindle, M20x590mm

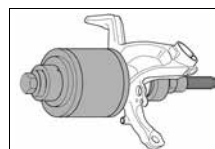
Suitable for hydraulic cylinder **KL-0040-2800**.



KL-0039-1401

Bearing Cover

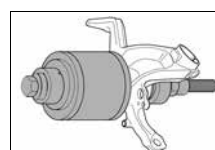
This tool is used for transmitting centred power to the housing.



KL-0039-1402

Housing

Suitable for bearing Ø of up to 88mm.



KL-0039-1403

Housing

Suitable for bearing Ø of up to 98mm.

KL-0039-.... Centring Rings

For supporting/centring the wheel bearing tool relative to the wheel bearing housing.

KL-0039-1413

Centring Ring, Ø 70mm

KL-0039-1414

Centring Ring, Ø 75mm

KL-0039-1415

Centring Ring, Ø 80mm



KL-0039-807 A

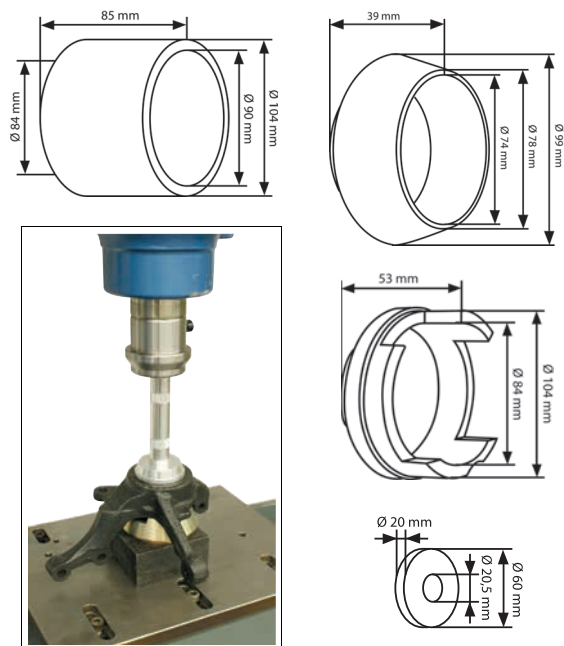
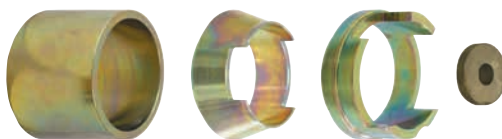
Support Ring Set

Universally applicable.

Designed to support the wheel bearing housing when removing the wheel bearing by means of a hydraulic press.

Scope of Delivery: KL-0039-807 A Support Ring Set

Part No.	Description	Qty
KL-0039-1402	Housing	1
KL-0039-1504	Adaptor Ring (conical)	1
KL-0039-1505	Adaptor Ring (cylindric)	1
KL-0039-1506	Centring Ring	1



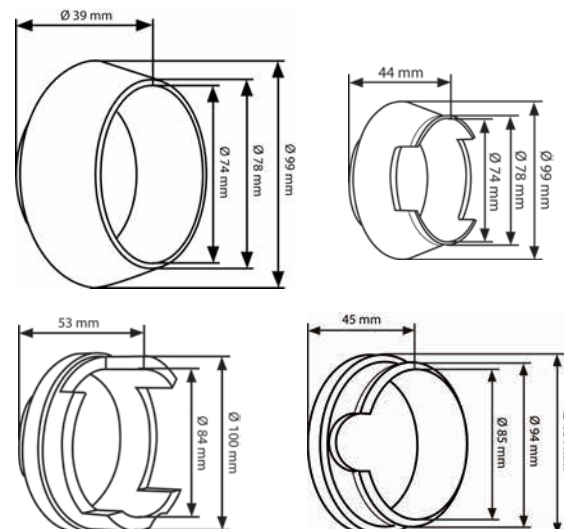
KL-0039-806 A

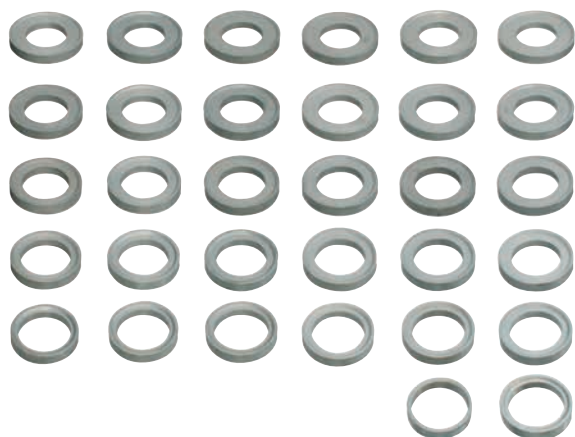
Set of Adaptor Rings

These rings are required for the accurate support of the wheel bearing tool housing on the wheel bearing housing if a standard support via the centring rings is not possible, e.g. on French vehicles where the wheel bearing needs to be extracted inwards.

Scope of Delivery: KL-0039-806 A Set of Adaptor Rings

Part No.	Description	Qty
KL-0039-1503	Adaptor Ring (conical)	1
KL-0039-1504	Adaptor Ring (conical)	1
KL-0039-1505	Adaptor Ring (cylindric)	1
KL-0039-1509	Adaptor Ring (cylindric)	1





3

Note:

The unique design of the pressure pieces enables safe and accurate centring and alignment when changing a wheel bearing. It ensures that when removing and mounting the wheel bearing, the pressing force will be applied on the outer bearing race only, and that when installing the wheel hub, the pressing force will be applied only on the inner bearing race. This prevents damage to the new wheel bearing. The combination of centring rings and pressure rings creates pressure pieces which can accurately be adjusted to the respective bearing Ø.

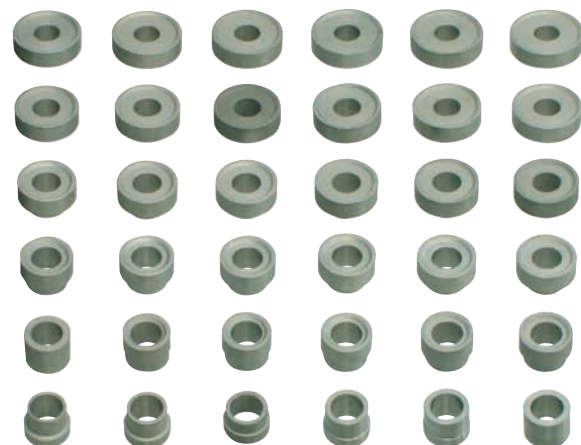
KL-0039-120

Set of Pressure Rings, Ø 54-90mm

For accurate pressure force transmission on the outer bearing race or inner bearing race.

Scope of Delivery: KL-0039-120 Set of Pressure Rings, Ø 54-90mm

Part No.	Description	Qty	Part No.	Description	Qty
KL-0039-1254	Pressure Ring, Ø 54mm	1	KL-0039-1275	Pressure Ring, Ø 75mm	1
KL-0039-1260	Pressure Ring, Ø 60mm	1	KL-0039-1276	Pressure Ring, Ø 76mm	1
KL-0039-1261	Pressure Ring, Ø 61mm	1	KL-0039-1277	Pressure Ring, Ø 77mm	1
KL-0039-1262	Pressure Ring, Ø 62mm	1	KL-0039-1278	Pressure Ring, Ø 78mm	1
KL-0039-1263	Pressure Ring, Ø 63mm	1	KL-0039-1279	Pressure Ring, Ø 79mm	1
KL-0039-1264	Pressure Ring, Ø 64mm	1	KL-0039-1280	Pressure Ring, Ø 80mm	1
KL-0039-1265	Pressure Ring, Ø 65mm	1	KL-0039-1281	Pressure Ring, Ø 81mm	1
KL-0039-1266	Pressure Ring, Ø 66mm	1	KL-0039-1282	Pressure Ring, Ø 82mm	1
KL-0039-1267	Pressure Ring, Ø 67mm	1	KL-0039-1283	Pressure Ring, Ø 83mm	1
KL-0039-1268	Pressure Ring, Ø 68mm	1	KL-0039-1284	Pressure Ring, Ø 84mm	1
KL-0039-1269	Pressure Ring, Ø 69mm	1	KL-0039-1285	Pressure Ring, Ø 85mm	1
KL-0039-1270	Pressure Ring, Ø 70mm	1	KL-0039-1286	Pressure Ring, Ø 86mm	1
KL-0039-1271	Pressure Ring, Ø 71mm	1	KL-0039-1287	Pressure Ring, Ø 87mm	1
KL-0039-1272	Pressure Ring, Ø 72mm	1	KL-0039-1288	Pressure Ring, Ø 88mm	1
KL-0039-1273	Pressure Ring, Ø 73mm	1	KL-0039-1289	Pressure Ring, Ø 89mm	1
KL-0039-1274	Pressure Ring, Ø 74mm	1	KL-0039-1290	Pressure Ring, Ø 90mm	1



Note:

The **KL-0039-.. Series** can be complemented by additional pressure/support sleeves, pressure spindles and pressure frames, to create tool sets which are almost universal in their field of application.

KL-0039-130

Set of Centring Rings, Ø 25-60mm

The centring rings ensure exact guiding of the wheel bearing throughout the whole removal and installation process.

Scope of Delivery: KL-0039-130 Centring Ring Set, Ø 25-60mm

Part No.	Description	Qty	Part No.	Description	Qty
KL-0039-1325	Centring Ring, Ø 25mm	1	KL-0039-1343	Centring Ring, Ø 43mm	1
KL-0039-1326	Centring Ring, Ø 26mm	1	KL-0039-1344	Centring Ring, Ø 44mm	1
KL-0039-1327	Centring Ring, Ø 27mm	1	KL-0039-1345	Centring Ring, Ø 45mm	1
KL-0039-1328	Centring Ring, Ø 28mm	1	KL-0039-1346	Centring Ring, Ø 46mm	1
KL-0039-1329	Centring Ring, Ø 29mm	1	KL-0039-1347	Centring Ring, Ø 47mm	1
KL-0039-1330	Centring Ring, Ø 30mm	1	KL-0039-1348	Centring Ring, Ø 48mm	1
KL-0039-1331	Centring Ring, Ø 31mm	1	KL-0039-1349	Centring Ring, Ø 49mm	1
KL-0039-1332	Centring Ring, Ø 32mm	1	KL-0039-1350	Centring Ring, Ø 50mm	1
KL-0039-1333	Centring Ring, Ø 33mm	1	KL-0039-1351	Centring Ring, Ø 51mm	1
KL-0039-1334	Centring Ring, Ø 34mm	1	KL-0039-1352	Centring Ring, Ø 52mm	1
KL-0039-1335	Centring Ring, Ø 35mm	1	KL-0039-1353	Centring Ring, Ø 53mm	1
KL-0039-1336	Centring Ring, Ø 36mm	1	KL-0039-1354	Centring Ring, Ø 54mm	1
KL-0039-1337	Centring Ring, Ø 37mm	1	KL-0039-1355	Centring Ring, Ø 55mm	1
KL-0039-1338	Centring Ring, Ø 38mm	1	KL-0039-1356	Centring Ring, Ø 56mm	1
KL-0039-1339	Centring Ring, Ø 39mm	1	KL-0039-1357	Centring Ring, Ø 57mm	1
KL-0039-1340	Centring Ring, Ø 40mm	1	KL-0039-1358	Centring Ring, Ø 58mm	1
KL-0039-1341	Centring Ring, Ø 41mm	1	KL-0039-1359	Centring Ring, Ø 59mm	1
KL-0039-1342	Centring Ring, Ø 42mm	1	KL-0039-1360	Centring Ring, Ø 60mm	1



KL-0192-5

Circlip Pliers, Ø 40-100mm

Due to the 45° angled tips, this tool is ideal for inside circlips. Required for gearbox and wheel bearing repairs.

Technical Data:

Tip-Ø:	2.5mm
Length:	220mm
Weight:	220g

KL-0192-6

Circlip Pliers, Ø 85-165mm

The specially designed tips of the pliers (angled at 45°) allow for the trouble-free removal and installation of inner circlips when performing gearbox or wheel bearing repairs.

Technical Data:

Tip-Ø:	3mm
Length:	310mm
Weight:	410g



KL-0192-19

(German Utility Model)

Circlip Pliers for Inner Circlips without Eyes

Suitable for the circlips that are found on wheel bearings on Citroën, Peugeot, Nissan, Renault vehicles: Citroën Xara, Nissan Micra and Renault Clio.

The special design of the pliers' tips and the fixing via a spring-loaded counter-bearing, enable the easy removal and replacement of wheel bearing circlips without eyes.

Professional removal and installation of wheel bearing circlips are almost impossible without the use of this special tool.



KL-0192-20 KA

Retaining Ring Removal Tool Set, PSA

Suitable for Peugeot and Citroën vehicles equipped with drum brakes at the rear axle; such as Citroën C2 (JM), C3 I (FC), C3 Pluriel (HB), SAXO (S0, S1), XSARA (N1), XSARA Break (Estate Car) (N2), XSARA Coupé (N0); Peugeot 1007 (KM), 106 II (1), 206 Hatchback (2A/C), 206 SW (2E/K), 206+ (T3E), 208, 306 (7B, N3, N5), 306 Convertible (7D, N3, N5), 306 Hatchback (7A, 7C, N3, N5).

Designed for the professional separation/removal of earless-type retaining rings from rear drum brakes with a wheel bearing external Ø of 52mm. Necessary when replacing wheel bearings etc.

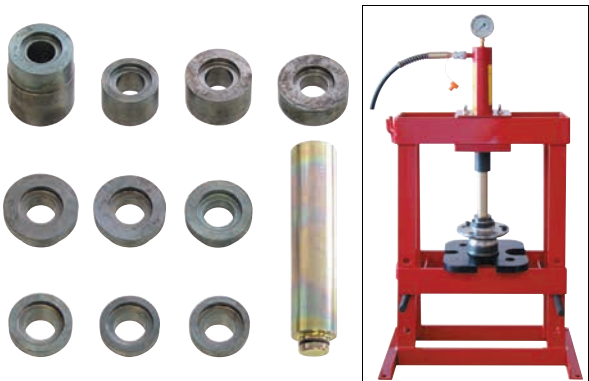


KL-0040-91

Bearing Race Assembly Tool Set

These universally applicable pressure discs are necessary to press in the outer bearing race on angular-roller bearings in conjunction with a hydraulic bench press.

The set contains drift **KL-0040-3090** and 10 pressure discs with Ø of 40/25mm, 40/32mm, 42mm, 42/32.5mm, 47/37.5mm, 49.5mm, 49.5/48 mm, 50/41.5mm, 52/41mm and 53.5mm.





KL-0041-700 K

Wheel Bearing Tool without Hydr. Cyl.

Like the **KL-0041-70 K**, however, without Hydraulic Cylinder



Scope of Delivery:

KL-0041-711 A Wheel Bearing Tool Set, without Drive

Part No.	Description	Qty
KL-0041-7101	Cover	1
KL-0041-7102	Support Sleeve with Bolts	1
KL-0041-7103	Supporting Plate	1
KL-0041-7104	Spacer Bolt, (18mm long)	3
KL-0041-7105	Spacer Bolt, (11mm long)	1
KL-0041-7106	Hexagon Socket Screw, M6x45mm	1
KL-0041-7107	Hexagon Socket Screw, M6x35mm	1
KL-0041-7120	Countersunk Screw, M6x30mm	3
KL-0039-1265	Pressure Ring, Ø 65mm	1
KL-0039-1282	Pressure Ring, Ø 82mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1
KL-0041-7206	Spacer Sleeve, 8mm	3
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1

KL-0041-70 K

(Patented)

Wheel Bearing Tool, VW/Audi/Škoda

Suitable for front axle:

Compact wheel hub bearing units (bearing Ø 85mm) as found on Audi A3 (8P); Škoda Oktavia estate (1Z); VW Eos, Passat (3C), Golf (V), Tiguan and Touran; Compact wheel bearings (bearing Ø 85mm) as found on Audi A4 (8E), A4 (8K), A4 RS4 (8D), A5 (8T), A6 (4B), A6 (4F), A6 (4G), A7 (4G), A8 (4H), Q5 (8R); Seat Exeo (3R); VW Phaeton (3D).

Suitable for rear axle:

Compact wheel bearings as found on Audi A4 Quattro (8E), A5 Quattro (8T), A6 Quattro (4G), A7 Quattro (4G), Q5 Quattro (8R).

The **KL-0041-70 K** wheel bearing tool is used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, thus allowing for the quick and trouble-free removal of flanged one-piece compact wheel hub bearing units (bearing Ø 85mm). It also enables the separate removal and installation of wheel hubs and the removal of mounting flanges from two-piece compact wheel bearings. Even severely seized wheel bearings are no longer an issue using the 17t hydr. cylinder **KL-0040-2500**. The removal of the steering knuckle/stub axle is not necessary.

Scope of Delivery: KL-0041-70 K Wheel Bearing Tool, VW/Audi/Škoda

Part No.	Description	Qty
KL-0041-700 K	Wheel Bearing Tool without Hydraulic Cylinder, Audi / Škoda / VW	1
KL-0040-2500	Hydraulic Cylinder	1
KL-0041-7090	Plastic Storage Case	1

Scope of Delivery: KL-0041-700 Wheel Bearing Tool without Hydraulic Cylinder

Part No.	Description	Qty
KL-0041-701	Wheel Bearing Tool without Drive	1
KL-0039-1002	Retaining Adaptor for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor for Hydraulic Cylinder	1
KL-0039-1920-1	Pull Spindle M20	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1

Scope of Delivery: KL-0041-701 Wheel Bearing Tool without Drive

Part No.	Description	Qty
KL-0041-732	Wheel Bearing Tool Upgrade Kit, Rear Axle	1
KL-0041-722	Upgrade Kit to KL-0041-71 A	1
KL-0041-711 A	Wheel Bearing Tool Set without Drive	1

Scope of Delivery: KL-0041-732 Upgrade Kit for KL-0041-72

Part No.	Description	Qty
KL-0039-2020-1	Pull Spindle, M20	1
KL-0041-7301	Perforated Puller Disc	1
KL-0041-7303	Puller Bolt (short), M14x1.5	3
KL-0041-7304	Adaptor	1
KL-0049-2004	Hex Nut, M14	3

Scope of Delivery: KL-0041-722 Upgrade Kit for KL-0041-71 A

Part No.	Description	Qty
KL-0041-7203	Support Plate	1
KL-0041-7204	Spacer Bolt, M12, 15mm	2
KL-0041-7111	Spacer Disc, 7mm	1
KL-0041-7207	Spacer Sleeve, 14mm	1
KL-0041-7211	Spacer Bolt, M12, 55mm	1
KL-0041-7302	Spacer Bolt, M12, 45mm	4
KL-0041-7212	Support Bolt, 27.5mm	2
KL-0041-7312	Support Bolt, 57.5mm	2
KL-0041-7313	Support Bolt, 45mm	2
KL-0041-7208	Adaptor	1
KL-0167-1413	Cheese Head Screw, M6x30mm	1
KL-0041-7210	Cheese Head Screw, M6x40mm	2
KL-0055-0012	Cheese Head Screw, M6x25mm	1
KL-0041-7306	Cheese Head Screw, M6x70mm	4
KL-0041-7213	Cheese Head Screw, M6x80mm	1
KL-0039-1275	Pressure Ring, Ø 75mm	1

KL-0041-71 KA (Patented)

Wheel Bearing Tool

in a Plastic Storage Case, Audi/Škoda/VW

Suitable for the compact wheel hub bearing units (bearing Ø 85mm) found on Audi A3 (8P); Škoda Octavia estate car (1Z); VW Eos, Passat (3C), Golf (V), Tiguan and Touran; as well as for the compact wheel bearings (bearing Ø 85mm) as found on Audi A4 (8E), Seat Exeo (3R2).

Used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the **KL-0041-71 KA** wheel bearing tool allows for the quick and trouble-free removal of flanged one-piece compact wheel hub bearing units (bearing Ø 85mm). It also enables the separate removal and installation of wheel hubs and the removal of mounting flanges from two-piece compact wheel bearings. Using the **KL-0040-2500** hydraulic cylinder (17t), even severely seized wheel bearings are no longer an issue. The removal of the steering knuckle is not necessary.

Scope of Delivery: KL-0041-71 KA Wheel Bearing Tool in a Plastic Storage Case

Part No.	Description	Qty
KL-0041-710 KA	Wheel Bearing Tool, Audi/Škoda/VW	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery: KL-0041-710 KA Wheel Bearing Tool without Hydraulic Cylinder

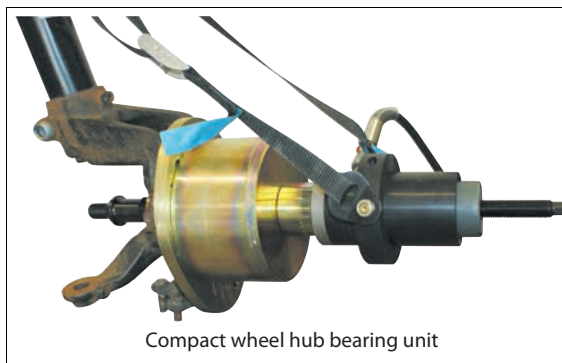
Part No.	Description	Qty
KL-0041-710 A	Wheel Bearing Tool without Hydraulic Cylinder	1
KL-0041-7090	Plastic Storage Case	1

Scope of Delivery: KL-0041-710 A Wheel Bearing Tool without Hydraulic Cylinder

Part No.	Description	Qty
KL-0041-711 A	Upgrade kit VW, Audi	1
KL-0039-1002	Retaining adaptor for clamping nut and pressure spindle with O-ring	1
KL-0039-1003	Retaining adaptor for hydr. cylinder with O-ring	1
KL-0039-1920-1	Pull spindle M20	1
KL-0039-1920-4	Clamping nut, Ø 38mm	1

Scope of Delivery: KL-0041-711 A Wheel Bearing Tool Set, without Drive

Part No.	Description	Qty
KL-0041-7101	Cover	1
KL-0041-7102	Support Sleeve with Bolts	1
KL-0041-7103	Supporting Plate	1
KL-0041-7104	Spacer Bolt, (18mm long)	3
KL-0041-7105	Spacer Bolt, (11mm long)	1
KL-0041-7106	Hexagon Socket Screw, M6x45mm	1
KL-0041-7107	Hexagon Socket Screw, M6x35mm	1
KL-0041-7120	Countersunk Screw, M6x30mm	3
KL-0039-1265	Pressure Ring, Ø 65mm	1
KL-0039-1282	Pressure Ring, Ø 82mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1
KL-0041-7206	Spacer Sleeve, 8mm	3
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1



KL-0041-711 KA (Patented)

Wheel Bearing Tool Set without Drive,

in a Plastic Storage Case, Audi/Škoda/VW

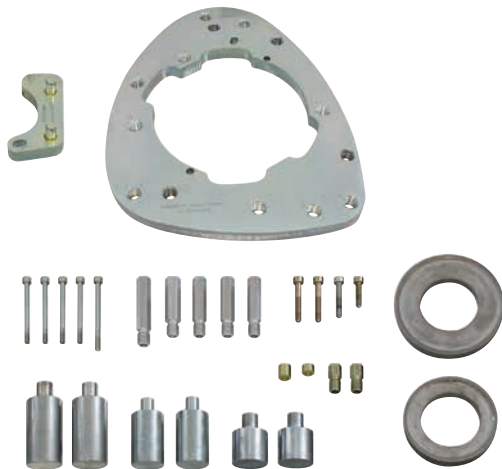
Suitable for the compact wheel hub bearing units (bearing Ø 85mm) found on Audi A3 (8P); Škoda Octavia estate car (1Z); VW Eos, Passat (3C), Golf (V), Tiguan and Touran; as well as for compact wheel bearings (bearing Ø 85mm) as found on Audi A4 (8E).

Used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the **KL-0041-711 KA** wheel bearing tool allows for the quick and trouble-free removal of flanged one-piece compact wheel hub bearing units (bearing Ø 85mm). It also enables the separate removal and installation of wheel hubs and the removal of mounting flanges from two-piece compact wheel bearings. For this, the hydraulic cylinder **KL-0040-2500**, retaining adaptor **KL-0039-1002**, retaining adaptor **KL-0039-1003**, pull spindle M20 **KL-0039-1920-1** and clamping nut (Ø 38mm) **KL-0039-1920-4** are needed. The removal of the steering knuckle is not necessary.

Scope of Delivery: KL-0041-711 KA Wheel Bearing Tool Set without Drive

Part No.	Description	Qty
KL-0041-711 A	Wheel Bearing Tool Set, without Drive	1
KL-0041-7090	Plastic Storage Case	1





The **KL-0041-732** upgrade kit is used in conjunction with wheel bearing tool **KL-0041-72** and hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, thus enabling the quick and trouble-free removal of flanged one-piece compact wheel hub bearing units. Removal of the stub axle is not necessary.

KL-0041-722

Upgrade Kit for KL-0041-71 A

Suitable for front axle:

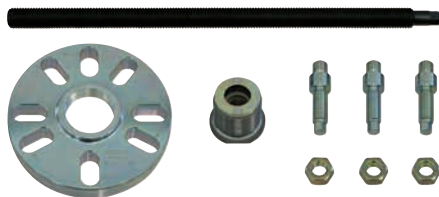
Compact wheel bearing on Audi A4 (8E), A4 (8K), A4 RS4 (8D), A5 (8T), A6 (4B), A6 (4F), A6 (4G), A7 (4G), A8 (4H), Q5 (8R); Seat Exeo (3R); VW Phaeton (3D).

Suitable for rear axle:

Compact wheel bearing on Audi A4 Quattro (8E), A5 Quattro (8T), A6 Quattro (4G), A7 Quattro (4G), Q5 Quattro (8R).

Scope of Delivery: KL-0041-722 Upgrade Kit for KL-0041-71 A

Part No.	Description	Qty
KL-0041-7203	Support Plate	1
KL-0041-7204	Spacer Bolt, M12, 15mm	2
KL-0041-7111	Spacer Disc, 7mm	1
KL-0041-7207	Spacer Sleeve, 14mm	1
KL-0041-7211	Spacer Bolt, M12, 55mm	1
KL-0041-7302	Spacer Bolt, M12, 45mm	4
KL-0041-7212	Support Bolt, 27.5mm	2
KL-0041-7312	Support Bolt, 57.5mm	2
KL-0041-7313	Support Bolt, 45mm	2
KL-0041-7208	Adaptor	1
KL-0167-1413	Cheese Head Screw, M6x30mm	1
KL-0041-7210	Cheese Head Screw, M6x40mm	2
KL-0055-0012	Cheese Head Screw, M6x25mm	1
KL-0041-7306	Cheese Head Screw, M6x70mm	4
KL-0041-7213	Cheese Head Screw, M6x80mm	1
KL-0039-1275	Pressure Ring, Ø 75mm	1



The upgrade kit **KL-0041-732** is used in conjunction with wheel bearing tool **KL-0041-72** and a hydraulic pump thus enabling the quick and trouble-free removal of flanged one-piece compact wheel hub bearing units. Removal of the stub axle is not necessary.

KL-0041-732

Upgrade Kit for KL-0041-72

Suitable for rear axle:

Compact wheel hub bearing unit on Audi A6 (4F).

Scope of Delivery: KL-0041-732 Upgrade Kit for KL-0041-72

Part No.	Description	Qty
KL-0039-2020-1	Pull Spindle, M20	1
KL-0041-7301	Perforated Puller Disc	1
KL-0041-7303	Puller Bolt (short), M14x1.5	3
KL-0041-7304	Adaptor	1
KL-0049-2004	Hex Nut, M14	3



Used in conjunction with the **KL-0041-72** wheel bearing tool and hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the **KL-0041-713** upgrade kit allows for the quick and trouble-free removal of flanged one-piece compact wheel hub/wheel bearing units (bearing Ø 85mm). It can also be used for the separate removal and installation of wheel hubs and removal of mounting flanges from two-piece compact wheel bearings. The removal of the steering knuckle is not necessary.

Note:

With Audi A4 and Seat Exeo, the **KL-0041-71 A** as well as the **KL-0041-72** tool set can be used.

KL-0041-713

Upgrade Kit for KL-0041-72

Suitable for front axle compact wheel hub bearing units (bearing Ø 85mm): Audi A3 (8P); Škoda Oktavia estate car (1Z); VW Eos, Passat (3C), Golf (V), Tiguan and Touran;

compact wheel bearings (bearing Ø 85mm): Audi A4 (8E), Seat Exeo (3R2).

Scope of Delivery: KL-0041-713 Upgrade Kit to KL-0041-72

Part No.	Description	Qty
KL-0041-7103	Support Plate	1
KL-0041-7104	Spacer Bolt, M12, 18mm long	3
KL-0041-7105	Spacer Bolt, M12, 11mm long	1
KL-0041-7106	Cheese Head Screw, M6x45mm	1
KL-0041-7107	Cheese Head Screw, M6x35mm	1
KL-0041-7206	Spacer Sleeve, 8mm	3
KL-0041-7120	Countersunk Screw, M6x30mm	3

KL-0041-72 K

(Patented)

Wheel Bearing Tool

with Hydraulic Cylinder, in a Plastic Storage Case

Suitable for front axle:

Compact wheel bearing on Audi A4 (8E), A4 (8K), A4 RS4 (8D), A5 (8T), A6 (4B), A6 (4F), A6 (4G), A7 (4G), A8 (4H), Q5 (8R); Seat Exeo (3R); VW Phaeton (3D).

Suitable for rear axle:

Compact wheel bearing on Audi A4 Quattro (8E), A5 Quattro (8T), A6 Quattro (4G), A7 Quattro (4G), Q5 Quattro (8R).

Used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the **KL-0041-72 K** wheel bearing tool allows for the quick and trouble-free removal and installation of wheel hubs and the removal of mounting flanges from two-piece compact wheel bearings. Even severely seized wheel bearings are no longer an issue using the 17t hydraulic cylinder **KL-0040-2500**.

The removal of the steering knuckle/stub axle is not necessary.

Scope of Delivery: KL-0041-72 K Wheel Bearing Tool, with Hydraulic Cylinder

Part No.	Description	Qty
KL-0041-72	Wheel Bearing Tool with Hydraulic Cylinder	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-0041-7090	Plastic Storage Case	1

Scope of Delivery: KL-0041-72 Wheel Bearing Tool, with Hydraulic Cylinder

Part No.	Description	Qty
KL-0041-720	Wheel Bearing Tool, without Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder	1

Scope of Delivery: KL-0041-720 Wheel Bearing Tool, without Hydraulic Cylinder

Part No.	Description	Qty
KL-0041-721	Wheel Bearing Tool, without Drive	1
KL-0039-1920-1	Pull Spindle M20	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0039-1002	Retaining Adaptor for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor for Hydraulic Cylinder	1

KL-0041-720 K Wheel Bearing Tool, without Hydraulic Cylinder (not shown)

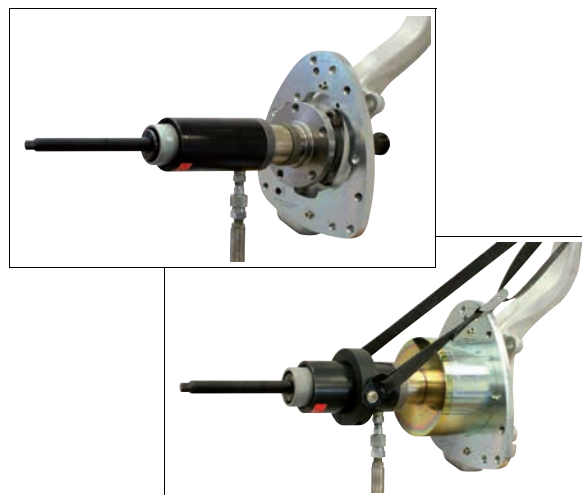
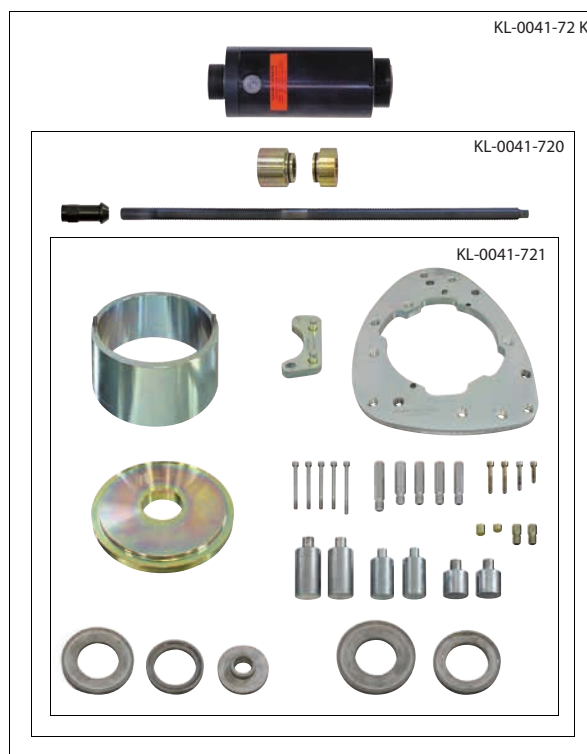
Like the **KL-0041-720**, but supplied in a plastic storage case

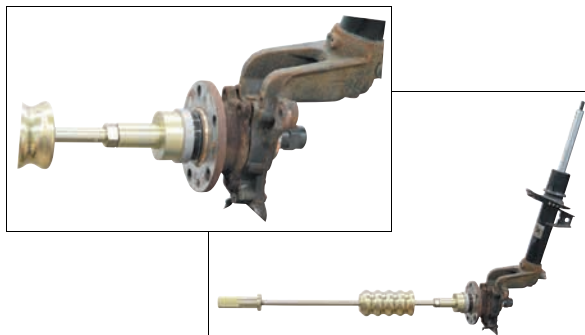
KL-0041-721 K - Wheel Bearing Tool (not shown)

Like the **KL-0041-721**, but supplied in a plastic storage case

Scope of Delivery: KL-0041-721 Wheel Bearing Tool, without Drive

Part No.	Description	Qty
KL-0041-7101	Cover	1
KL-0041-7102	Support Sleeve with Bolts	1
KL-0041-7203	Support Plate	1
KL-0041-7204	Spacer Bolt, M12, 15mm	2
KL-0041-7206	Spacer Sleeve, 8mm	1
KL-0041-7207	Spacer Sleeve, 14mm	1
KL-0041-7211	Spacer Bolt, M12, 55mm	1
KL-0041-7302	Spacer Bolt, M12, 45mm	4
KL-0041-7212	Supporting Bolt, 27.5mm	2
KL-0041-7312	Supporting Bolt, 57.5mm	2
KL-0041-7313	Supporting Bolt, 45mm	2
KL-0041-7208	Adaptor	1
KL-0167-1413	Cheese Head Screw, M6x30mm	1
KL-0041-7210	Cheese Head Screw, M6x40mm	2
KL-0055-0012	Cheese Head Screw, M6x25mm	1
KL-0041-7306	Cheese Head Screw, M6x70mm	4
KL-0041-7213	Cheese Head Screw, M6x80mm	1
KL-0039-1265	Pressure Ring, Ø 65mm	1
KL-0039-1275	Pressure Ring, Ø 75mm	1
KL-0039-1282	Pressure Ring, Ø 82mm	1
KL-0039-1290	Pressure Ring, Ø 90mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1





KL-0049-320

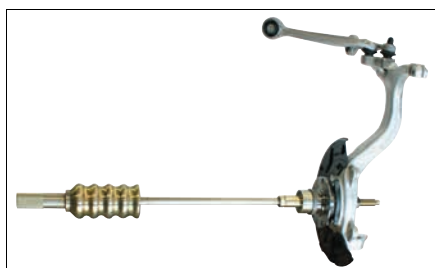
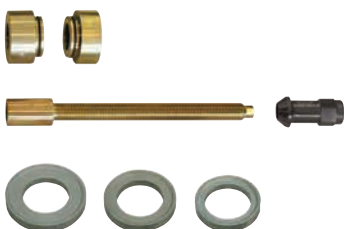
Wheel Bearing Puller, Audi/Seat/Škoda/VW

Suitable for Audi A3 (8P); Seat Altea (5P), Leon (1P); Škoda Oktavia estate car (1Z); VW Eos, Passat (3C), Golf V, Tiguan and Touran.

Flange-mounted compact wheel bearings (bearing Ø 85mm) can easily and smoothly be extracted from the steering knuckle with the aid of the **KL-0049-320** wheel bearing puller in conjunction with the slide hammer **KL-0049-31** or **KL-0049-300**. Removal of the steering knuckle is not necessary.

Scope of Delivery: KL-0049-320 Wheel Bearing Puller, Audi/Seat/Škoda/VW

Part No.	Description	Qty
KL-0049-3200	Pull Spindle	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	2
KL-0039-1266	Pressure Ring, Ø 66mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1
KL-0040-3009	Clamping Nut	1



KL-0049-330

Wheel Bearing Puller, Audi

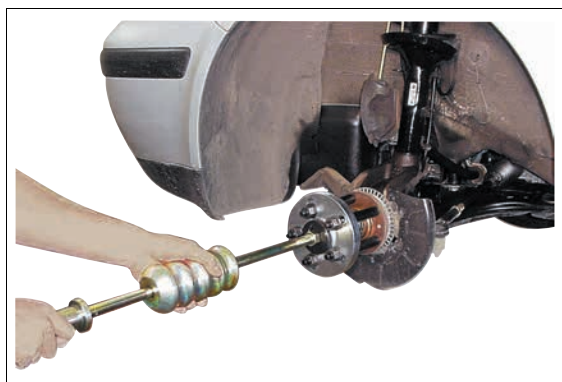
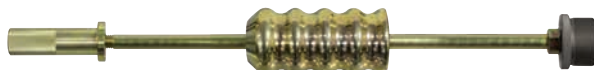
Applicable to Audi A4 (8E), A6 (4B) and A8 (4D).

The wheel hub and the flange-mounted compact wheel bearing (bearing Ø 85mm) can easily and smoothly be extracted from the steering knuckle by using the wheel bearing puller **KL-0049-330** in conjunction with slide hammer **KL-0049-31** or **KL-0049-300**. Removal of the steering knuckle is not necessary.

Note: With an already existing **KL-0049-320** wheel bearing puller, you will need for Audi A4 only pressure ring **KL-0039-1282** and clamping nut **KL-0039-1920-4**.

Scope of Delivery: KL-0049-330 Wheel Bearing Puller, Audi

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	2
KL-0039-1266	Pressure Ring, Ø 66mm	1
KL-0039-1281	Pressure Ring, Ø 81mm	1
KL-0049-3200	Pull Spindle	1
KL-0039-1920-4	Clamping Nut	1
KL-0039-1273	Pressure Ring, Ø 73mm	1



KL-0049-31

Slide Hammer Puller (4.8kg), with Adaptor 2 1/4"-14 UNS to M18

Designed to extract wheel hubs, half-shafts, drive shafts, brake drums etc. Used in conjunction with the **KL-0174-.. Puller Series**.

Technical Data:

Hammer weight:	4.8kg
Length:	690mm
Connection thread on pull rod:	M18

Scope of Delivery:

KL-0049-31 Slide Hammer Puller, 4.8kg, with Adaptor 2 1/4"-14 UNS to M18

Part No.	Description	Qty
KL-0049-3001	Pull Rod for KL-0049-3	1
KL-0049-3002	Hammer Weight (4.8kg) for KL-0049-3	1
KL-0049-3003	Handle for KL-0049-3	1
KL-0049-3004	Hex Nut, M18	1
KL-0174-545	Adaptor, 2 1/4"-14 UNS to M18	1

KL-4031-3518

Screwdriver Bit Socket, XZN-M18, 78mm, drive 1/2"

Suitable e.g. for Audi A3, VW Polo, Golf V etc.

This tool is designed to loosen and tighten rear axle wheel hub bearing unit fastening screws.



1/2"

Technical Data:

Drive:	1/2"
Size:	XZN-M18
Length:	78mm

KL-4031-3512

Screwdriver Bit Socket, XZN-M12, 78mm, drive 1/2"

For loosening and tightening XZN M12 fastening screws.

The ideal tool for wheel bearing fastening screws found on VW Golf VI etc.

Reinforced design, however, not suitable for use on impact wrenches.



1/2"

Technical Data:

Size:	XZN M12
Drive:	1/2"
Length:	78mm

KL-4031-351 K

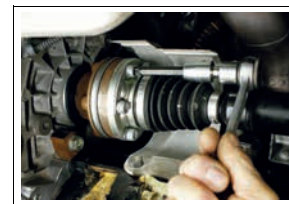
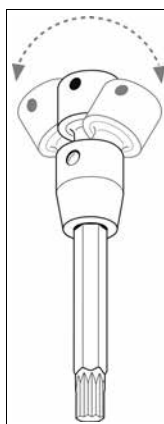
Screwdriver Bit Socket Kit

Universal application. The ideal kit for VW-Audi, Seat, Škoda vehicles, e.g. Audi A3 (8P), VW Polo (6N), Golf IV (1J), Golf V (1K), Passat (3C), Touran (1T), T4, T5; Seat Altea (5P) etc.

For loosening and tightening XZN fastening screws, for example those on brake calipers, wheel bearings, wheel-hub bearing units, suspension ball joints, drive shafts. Also suitable for shock absorber mount clamping screws on steering knuckles etc.

Scope of Delivery: KL-4031-351 K Screwdriver Bit Socket Kit

Part No.	Description	Qty
KL-4031-3512	Screwdriver Bit Socket, XZN-M12, 78mm, 1/2"	1
KL-4031-3514	Screwdriver Bit Socket, XZN-M14, 78mm, 1/2"	1
KL-4031-3518	Screwdriver Bit Socket, XZN-M18, 78mm, 1/2"	1
KL-0232-8	Flexible Multi-Tooth Socket, XZN M10	1
KL-4031-3590	Plastic Storage Case	1



KL-4007-411

Swivel Head Breaker Bar, 3/4", 980mm

Extra long design (980mm), with 180° swivel head. Ideal for loosening extremely tight/stuck screws.

Technical Data:

Drive:	3/4"
Overall length:	980mm

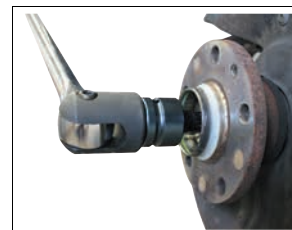


KL-4031-4118

Screwdriver Bit Socket, XZN-M18, 3/4"

Suitable for the wheel bearing central screws found at the rear axle of VW Golf V, Audi A3, Seat Altea etc.

The **KL-4031-4118** Screwdriver Bit Socket (XZN-M18, 3/4") is used with a 3/4" breaker bar such as the **KL-4007-411** for the loosening, and in conjunction with a 3/4" torque wrench for the tightening, of the wheel bearing central screw at the rear axle.



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



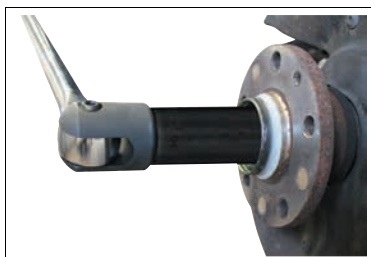
DMK 200 CODE:2641240

Torque Wrench Dremaster 40-200Nm



Technical Data:

Drive:	3/4"
Size (waf):	XZN-M18
Maximum load capacity:	800Nm



KL-4014-4224

Bi-Hex Socket, 24mm

Applicable to VW Golf (VI, VII), Scirocco, Tiguan, Touran, Passat (3C), Passat CC; Audi A3, TT; Seat Leon, Altea; Škoda Octavia (1Z), Superb (3T) etc.

This socket is needed for the loosening/tightening of lock nuts/screws as found on rear and front axle drive shafts, wheel bearings, as well as on gearbox/differential flanges. The ideal tool to loosen/tighten the drive shaft central fastening screw on VW-Audi, Seat, Škoda vehicles.

Technical Data:

Drive:	3/4"
Length:	90mm
Size (waf):	24mm
Profile:	bi-hex

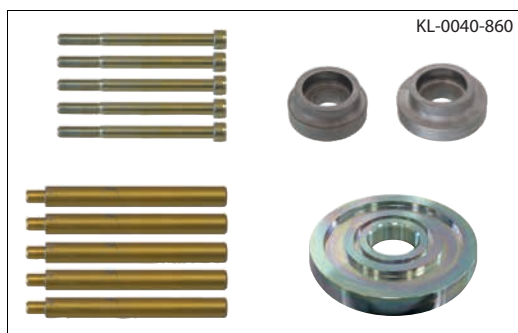
Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240

Torque Wrench Dremaster 40-200Nm



KL-0040-86

Wheel Bearing Tool Set with Hydraulic Cylinder (28t), Ford Transit

Suitable for all the Ford Transit models from 2002 onwards equipped with brake disc fastening screws with pitch circle diameter 97.5 and 111mm, as well as for Tourneo front axle on vehicles with front or rear wheel drive.

To replace the specified brake discs or wheel bearings, it is usually necessary to pull out the wheel bearing along with the hub and brake disc from the wheel bearing housing. This tool set allows the removal and installation of the wheel bearing to be carried out in situ on the vehicle within a few minutes, without having to dismount the wheel bearing housing.

Note:

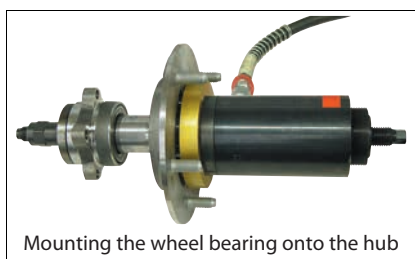
A hydraulic pump such as **KL-0215-35 M28** is required to drive the hydr. cyl. **KL-0040-2800**.

Scope of Delivery: KL-0040-86 Wheel Bearing Tool Set with Hydr. Cyl. (28t)

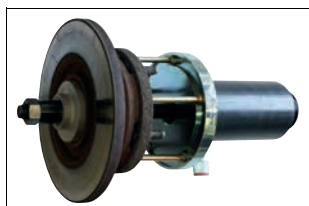
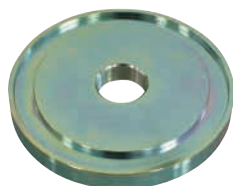
Part No.	Description	Qty
KL-0040-860	Wheel Bearing Tool Set, without Hydraulic Cylinder (28t)	1
KL-0040-2800	Hydraulic Cylinder (28t)	1
KL-0040-2812-1	Pull Spindle, M24x590mm	1
KL-0040-2812-2	Clamping Nut, M24, Ø 42mm	1

Scope of Delivery: KL-0040-860 Wheel Bearing Tool Set without Hydr. Cyl.

Part No.	Description	Qty
KL-0040-8601	Pressure Disc, Ø 77mm	1
KL-0040-8602	Pressure Disc, Ø 68mm	1
KL-0040-8501 A	Pressure Ring	1
KL-0039-1823-4	Cheese Head Screw, M10x120mm	5
KL-0040-8503	Mandrel	5



Mounting the wheel bearing onto the hub



KL-0040-861

Upgrade Kit, Ford Transit Rear Axle

Suitable for Ford Transit (from 2006 onwards) rear axle, with front wheel drive.

For removing the brake disc from wheel hub bearing units. Used in conjunction with wheel bearing tool set **KL-0040-86**.

Scope of Delivery: KL-0040-861 Upgrade Kit, Ford Transit Rear Axle

Part No.	Description	Qty
KL-0040-8611	Pressure Disc, Ø 93mm	1
KL-0040-8612	Pressure Ring, Ø 186mm	1

MANUFACTURING PROCESS FOR SOCKETS

3

- 

1 Blank cropped to size from 31CrV3
- 

2 Hot forged in the forging press.
- 

3 Accurately cropped to size.
- 

4 Outside diameter turned and knurled. For this step and the next, GEDORE uses high-tech machinery from its in-house mechanical engineering department.
- 

5 Counterbored, square socket drive is fluted (ball-stop flute), manufacturer and socket size are permanently stamped.
- 

6 Degreased, since grease would destroy the protective gas atmosphere in hardening.
- 

7 Hardened under protective gas atmosphere, followed by annealing.
- 

8 Sand blasted in preparation for surface coating.
- 

9 Nickel-plated and matt-chrome-plated to prevent dazzle. The electrolytically applied nickel coating ensures corrosion protection. The electroplated chrome improves the look and gives the socket a perfect finish.

Pro GEDORE

- > Use of high alloy 31CrV3 steel
- > Heat formed sockets which have a wear resistant, fine-grained structure and have a long service life
- > Narrow production tolerances ensure an ideal load transmission and low wear and guarantee a long service life
- > Distinctive ball catch ensure secure fit on the square drive
- > Good grip due to deep knurling even when held with oily hands or when working with protective gloves
- > Good look due to chrome plating and varnishing
- > Broad range in all sizes, drive and drive-side and for a wide range of screw types. One of the most diverse ranges in the market.

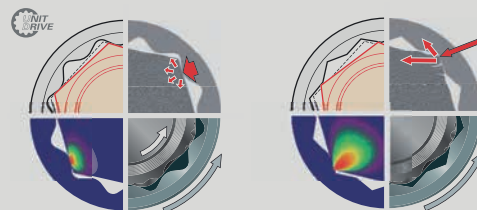
(*) Not applicable to 1/4" hexagonal sockets

Like all hot-forged tools, GEDORE sockets (*) are characterised by their homogeneous structure. The fibres run in parallel with the contour of the tool. The uninterrupted fibre orientation prevents residual stresses in the structure. In cold-forged tools, the fibres or lines of stress may deviate. Fibre orientation is equally important in nature.

For example, in a tree, the soft fibre orientation is parallel to the branch, so the wood is resistant to bending and twisting. If fibres become kinked, the branch loses its stability at the kink point and breaks. The low-stress GEDORE sockets withstand suddenly occurring peak forces better than cold formed sockets.

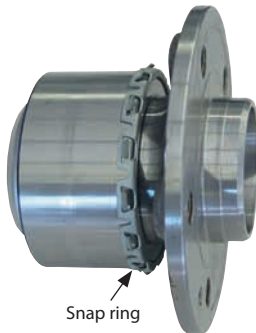
(*) Not applicable to 1/4" hexagonal sockets

UNIT-DRIVE PROFIL



Wheel Hub Bearing Unit extraction with the aid of puller KL-0041-38

Wheel hub bearing unit

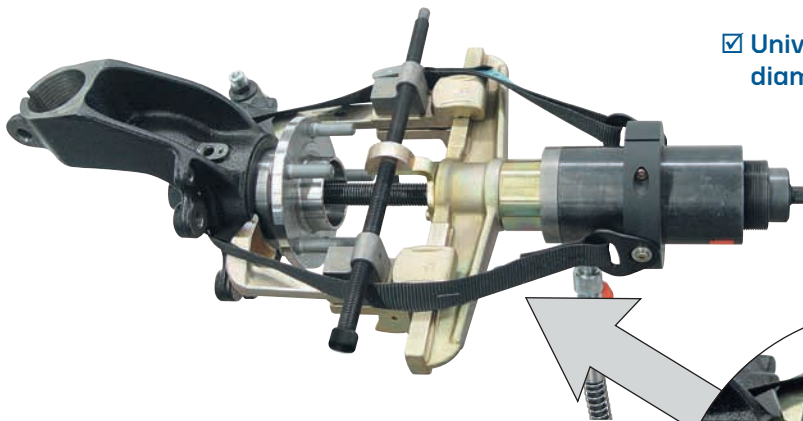


The problem with the extraction:

Very high pulling forces need to be applied in order to extract wheel hub bearing units that are equipped with a snap ring. The resistance of this safety snap ring needs to be overcome when removing the bearing unit, which will prove to be an even more difficult task in case of rust and corrosion. This also means that when extracting the wheel bearing, the locking teeth break and the snap ring is destroyed. Due to the high tensile force that needs to be applied, standard wheel bearing pulling devices with a mechanical spindle are not suitable to perform this task.

3

Extracting a wheel hub bearing unit with the aid of wheel hub puller KL-0041-38



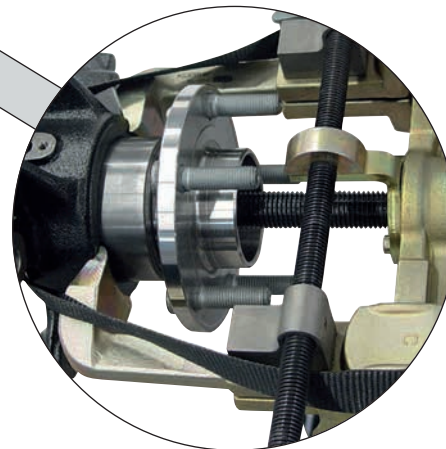
☑ Universally suitable for wheel hubs having a diameter of up to 250mm.

☑ Adjusting spindle with pre-setting feature allows for easy application of the tool.

☑ Universal

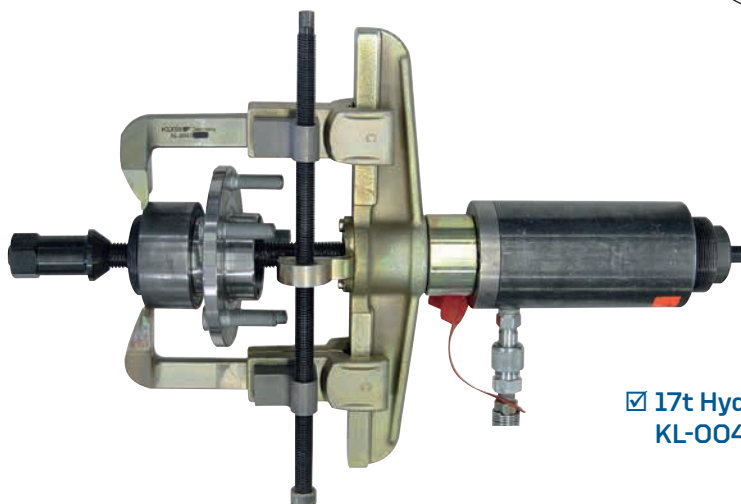
☑ Accurate

☑ Simple



☑ The two support surfaces and the spacer plates offer universal support possibilities.

☑ Easy to use
One-hand operation



☑ 17t Hydr. Cylinder
KL-0040-2500

Wheel Hub Bearing Unit insertion with the aid of tool set KL-0041-...

[Patented]

The problem with the insertion:

A particular feature of this new wheel bearing design is that the outer safety ring used to secure the wheel bearing in the housing has been replaced with an innovative snap ring fixed on the wheel hub side. The wheel hub and the wheel bearing are no longer separated but a complete unit. This means that the wheel hub bearing unit can no longer, as in the past, be inserted by means of a pressure piece under a press or by using standard wheel bearing tools.

In order to prevent damage to the wheel bearing, it is very important that the pressure force is applied evenly only on the outer bearing race during installation. Without the appropriate tools, the bearing can only be inserted into the wheel bearing housing by pressing on the wheel hub. In this procedure, however, the wheel hub will damage the new wheel bearing.

With the aim to provide the perfect solution for the correct removal and installation of this kind of wheel hub bearing units, GEDORE Automotive have designed an innovative specialist wheel bearing tool which can be positioned behind the wheel hub at the outer bearing race, on the snap ring. As a result, the wheel bearing is pressed in via the outer bearing race, and the snap ring securely latches into place.

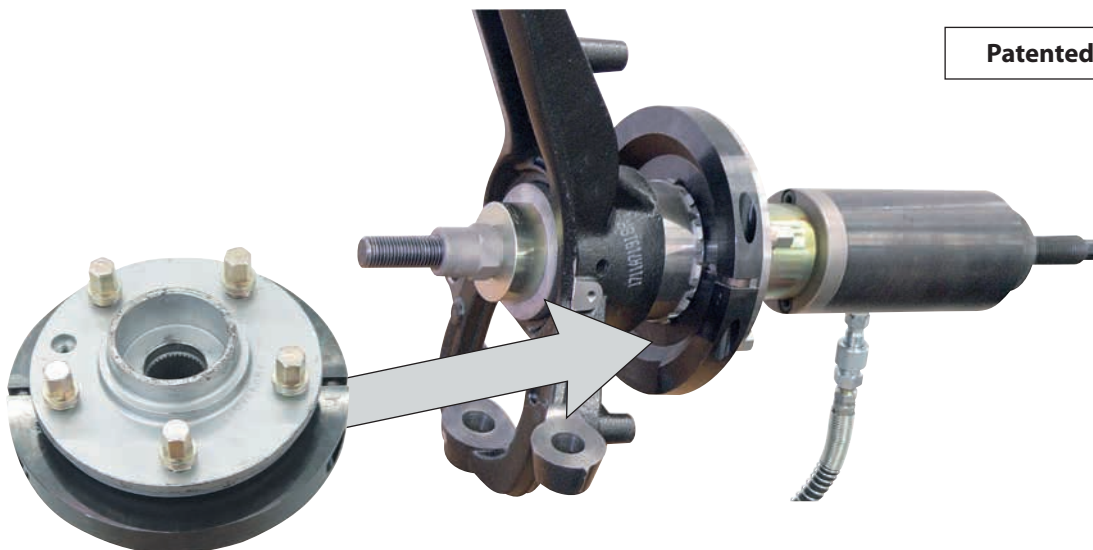
The additional use of the **KL-0040-2500** hydraulic cylinder allows for easy and hassle-free installation of the new wheel hub bearing unit within just a few minutes - without any risk of damage to the components.

Wheel hub bearing unit



3

Inserting a wheel hub bearing unit with the aid of a wheel hub bearing tool of the KL-0041-4.. Series

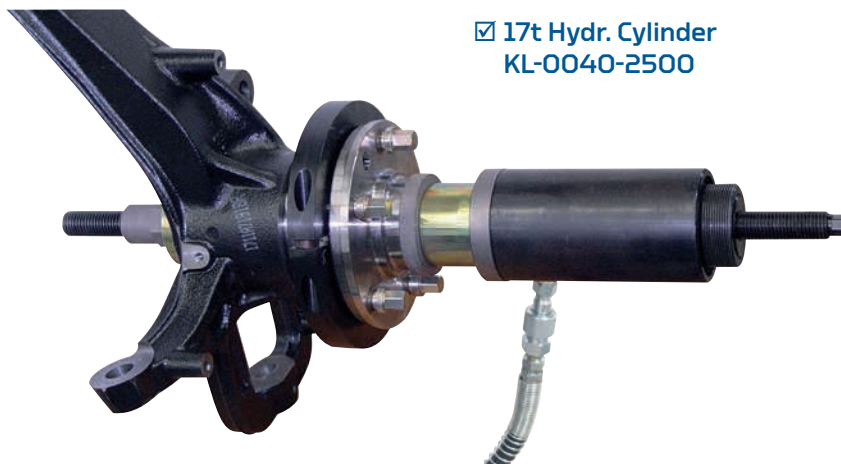


Patented

☒ Quick

☒ Safe

☒ Easy

☒ 17t Hydr. Cylinder
 KL-0040-2500




KL-0039-801 B

Mechanical Drive Kit for Wheel Hub Tools

Required to mechanically operate the wheel hub puller **KL-0041-380**.

The ball bearing and the integrated guide of the pull spindle and clamping nut in the adaptor enable professional and efficient working.

Scope of Delivery:

KL-0039-801 B Mechanical Drive Kit for Wheel Hub Tools

Part No.	Description	Qty
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1
KL-0039-2030	Pull Spindle, M20 (overall length: 420mm)	1
KL-0039-1332	Centring Ring, Ø 32mm	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0041-3812	Clamping Nut, Ø 30mm	1

3



KL-0039-801 A

Mechanical Drive Kit, 390mm

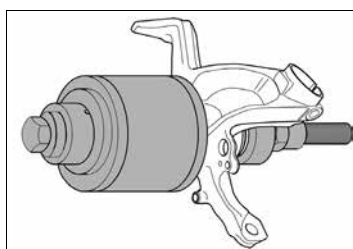
Necessary to mechanically operate the wheel bearing tools of the **KL-0039-..** and **KL-0041-4.. Series**.

The ball bearing and the integrated guide of the pull spindle and clamping nut in the retaining adaptor ensure professional and efficient working.

Scope of Delivery:

KL-0039-801 A Mechanical Drive Kit, 390mm

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1
KL-0039-2030	Pull Spindle, M20 (overall length: 420mm)	1
KL-0040-3009	Clamping Nut	1



KL-0041-38

Wheel Hub Puller, with Hydraulic Cylinder

Wheel hub bearing units or wheel hubs having a diameter of up to 250mm can be extracted quickly, safely and professionally by using the **KL-0041-38** wheel hub puller. Even bonded, seized or heavily corroded wheel hub bearing units or wheel hubs are no longer an issue thanks to the **KL-0040-2500** hydraulic cylinder.

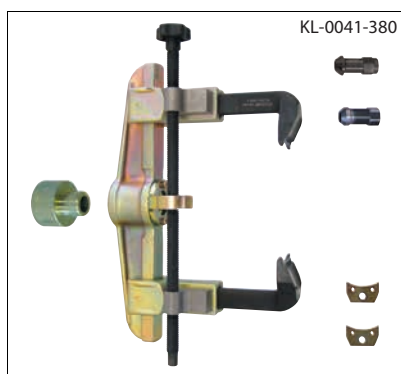
Note:

- The plates **KL-0041-3821** and **KL-0041-3822** are used as spacer/adjustment plates. They are necessary when, while extracting a wheel hub, the support takes place via the bottom side of the hooks and if the supporting surface is not even.
- A hydraulic pump is required to drive the hydraulic cylinder **KL-0040-2500**.

Scope of Delivery:

KL-0041-38 Wheel Hub Puller, with Hydraulic Cylinder

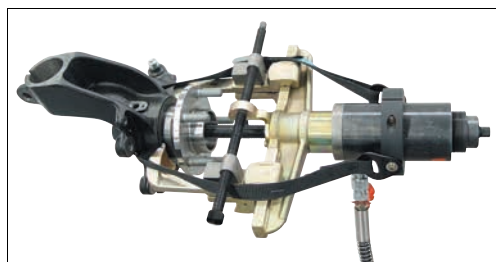
Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0041-380	Wheel Hub Puller with Adjusting Spindle, without Hydr. Cyl.	1



Scope of Delivery:

KL-0041-380 Wheel Hub Puller, with Adjusting Spindle, without Hydr. Cyl.

Part No.	Description	Qty
KL-0041-3800	Wheel Hub Puller (Base Tool with Adjusting Spindle)	1
KL-0041-3802	Adaptor, M42x2	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0041-3812	Clamping Nut, Ø 30mm	1
KL-0041-3821	Plate with Magnet, 4mm	1
KL-0041-3822	Plate with Magnet, 6mm	1



KL-0041-380 K

Wheel Hub Puller, without Hydr. Cyl., in a Plastic Storage Case

Wheel hub bearing units or wheel hubs having a diameter of up to 250mm can be extracted quickly, safely and professionally by using the **KL-0041-380** wheel hub puller. For this, the hydraulic cylinder **KL-0040-2500** and pull spindle M20x550mm **KL-0039-1920-1** are necessary.

Note:

The plates **KL-0041-3821** and **KL-0041-3822** are used as spacer/adjustment plates. They are necessary when, while extracting a wheel hub, the support takes place via the bottom side of the hooks and if the supporting surface is not even.

Scope of Delivery: KL-0041-380 K Wheel Hub Puller, without Hydraulic Cylinder

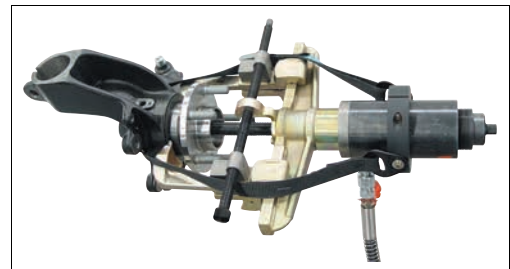
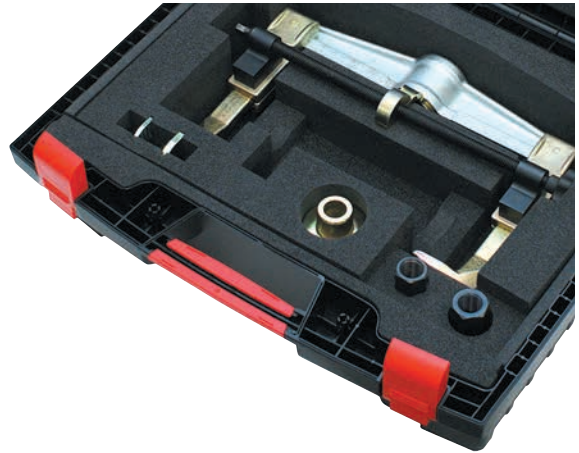
Part No.	Description	Qty
KL-0041-380 E	Wheel Hub Puller, without Hydraulic Cylinder, in a Foam Insert	1
KL-4999-1391	Plastic Storage Case	1

Scope of Delivery: KL-0041-380 E Wheel Hub Puller, without Hydraulic Cylinder

Part No.	Description	Qty
KL-0041-380	Wheel Hub Puller, without Hydraulic Cylinder	1
KL-4999-1315	Foam Insert	1

Scope of Delivery: KL-0041-380 Wheel Hub Puller, with Adjusting Spindle

Part No.	Description	Qty
KL-0041-3800	Wheel Hub Puller (Base Tool with Adjusting Spindle)	1
KL-0041-3802	Adaptor, M42x2	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0041-3812	Clamping Nut, Ø 30mm	1
KL-0041-3821	Plate with Magnet, 4mm	1
KL-0041-3822	Plate with Magnet, 6mm	1



KL-0041-42

(Patented)

Wheel Bearing Tool with Hydr. Cyl., Audi A2/VW Lupo, (Bearing Ø 62mm)

Suitable for vehicles with bearing Ø of 62mm, e.g. Audi A2, VW Lupo etc.

The **KL-0041-42** wheel bearing tool set enables the quick and safe installation of wheel hub bearing units without the risk of damaging these.

Note:

- The wheel hub puller **KL-0041-38** is needed for removing wheel hub- /bearing units.
- A hydraulic pump is necessary to drive the hydraulic cylinder **KL-0040-2500**.

Scope of Delivery: KL-0041-42 Wheel Bearing Tool with Hydraulic Cylinder, Audi A2/VW Lupo, (Bearing Ø 62mm)

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0041-420	Wheel Bearing Tool, Lupo (Ø 62mm), without hydraulic cylinder	1

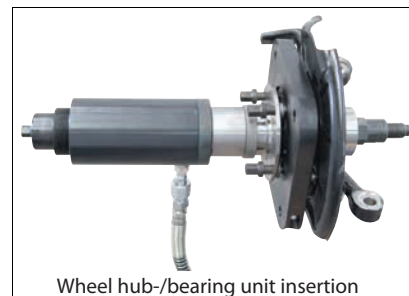
Scops of Delivery: KL-0041-420 Wheel Bearing Tool without Drive, Audi A2/VW Lupo, (Bearing Ø 62mm)

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1
KL-0041-421	Upgrade Kit, Lupo, Ø 62mm	1

Scope of Delivery:

KL-0041-421 Upgrade Kit, Audi A2/VW Lupo, (bearing-Ø 62mm)

Part No.	Description	Qty
KL-0041-4200	Clamping Shells (Pair), Ø 62mm	1
KL-0041-3921	Pressure Screw, M12x1.5	4
KL-0039-1265	Pressure Ring, Ø 65mm	1
KL-0039-1359	Centring Ring, Ø 59mm	1
KL-0041-4204	Pressure- /Support Sleeve	1



Wheel hub-/bearing unit insertion



Technical Data:

Max. load capacity of hydraulic cylinder:	17t
Max. load capacity of pull spindle:	20t
Weight:	15.8kg

KL-0041-43 B

(Patented)

Wheel Bearing Tool with Hydraulic Cylinder, Polo/Fabia, Ø 66mm

Suitable for vehicles with bearing Ø of 66mm, e.g. VW Polo (2002 onwards), Škoda Fabia (2000 onwards) etc.

The **KL-0041-43 B** wheel bearing tool set enables the quick and safe installation of wheel hub bearing units without the risk of damaging them.

Note: To remove wheel hub bearing units, the **KL-0041-38** wheel hub puller is needed.

Scope of Delivery: KL-0041-43 B Wheel Bearing Tool with Hydraulic Cylinder

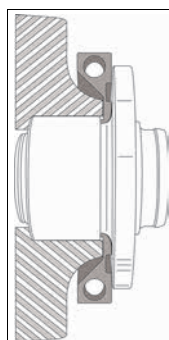
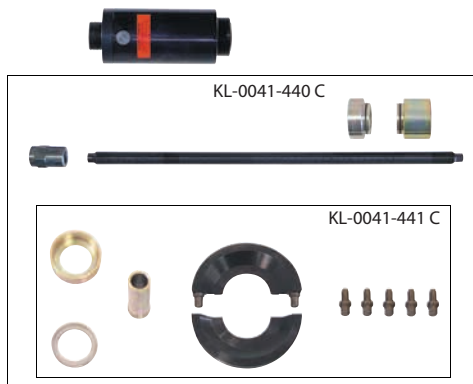
Part No.	Description	Qty
KL-0041-430 B	Wheel Bearing Tool without Hydraulic Cylinder, Ø 66mm	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery: KL-0041-430 B Wheel Bearing Tool without Hydr. Cyl.

Part No.	Description	Qty
KL-0039-1002	Retaining adaptor for clamping nut and pressure spindle with O-ring	1
KL-0039-1003	Retaining adaptor for hydraulic cylinder with O-ring	1
KL-0039-1920-1	Pull spindle M20	1
KL-0040-3009	Clamping nut	1
KL-0041-431 B	Upgrade Kit Polo / Fabia Ø 66 mm	1

Scope of Delivery: KL-0041-431 B Upgrade Kit, Bearing Ø 66mm

Part No.	Description	Qty
KL-0041-4300 B	Clamping jaws (pair) Ø 66mm	1
KL-0041-3931	Pressure screw M14x1.5	5
KL-0039-1265	Pressure ring Ø 65mm	1
KL-0041-4204	Pressure- / Support Sleeve	1



Technical Data:

Max. load capacity of pull spindle:	20t
Max. load capacity of hydraulic cylinder:	17t
Weight:	15.8kg

KL-0041-44 C

(Patented)

Wheel Bearing Tool with 17t Hydraulic Cylinder, Polo, Bearing Ø 72mm

Suitable for vehicles with bearing Ø of 72mm (both with and without snap ring [such as SKF bearings]) e.g. Audi A2 (from 2000 onwards), Seat Ibiza (from 2002 onwards), Škoda Fabia (from 2000 onwards) and VW Polo (from 2002 onwards), Fox, etc.

The **KL-0041-44 C** wheel bearing tool enables the quick and safe installation of wheel hub bearing units without the risk of damaging them. Due to the particular design of the wheel hub bearing units, conventional installation by means of a thrust piece under a workshop press or by using standard wheel bearing tools is no longer feasible. This is because with this type of bearing, the outer bearing race is covered by the wheel hub. GEDORE Automotive have come up with a solution to this problem with the specifically designed clamping shells which are mounted against the wheel bearing outer race behind the wheel hub, thus allowing for professional installation of the wheel hub bearing units. The clamping shells feature a securing collar designed to ensure that wheel hub bearing units without snap ring are pressed in completely/into deepened position. For the removal of wheel hub bearing units, the wheel hub puller **KL-0041-38** is needed.

Scope of Delivery: KL-0041-44 C Wheel Bearing Tool with Hydraulic Cylinder

Part No.	Description	Qty
KL-0040-2500	Hydraulic-Cylinder 17 t	1
KL-0041-440 C	Wheel Bearing Tool without Hydr. Cyl. (17t), Bearing Ø 72mm	1

Scope of Delivery: KL-0041-440 C Wheel Bearing Tool, Bearing Ø 72mm

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1
KL-0041-441 C	Upgrade Kit, Polo, Bearing Ø 72mm	1

Scope of Delivery: KL-0041-441 C Upgrade Kit, Polo, Bearing Ø 72mm

Part No.	Description	Qty
KL-0041-4400 C	Clamping Shells (Pair), Ø 72mm	1
KL-0041-3931	Pressure Screw, M14x15	5
KL-0039-1802	Centring Sleeve, long, Ø 27.4mm	1
KL-0039-1265	Pressure Ring, Ø 65mm	1
KL-0039-1674	Pressure/Support Sleeve, short, Ø 74mm	1

KL-0041-45 B

(Patented)

Wheel Bearing Tool Kit

with Hydraulic Cylinder, VW T5 (Bearing Ø 85mm)

Suitable for vehicles with bearing Ø of 85mm such as VW T5 (front and rear axle), VW Touareg and Porsche Cayenne (front axle).

The wheel bearing tool **KL-0041-45 B** enables the quick and safe installation of wheel hub bearing units without the risk of damaging them.

Note:

- The wheel hub puller **KL-0041-38** is required to remove wheel hub bearing units.
- A hydraulic pump is required to drive the hydraulic cylinder **KL-0040-2500**.

Scope of Delivery: KL-0041-45 B Wheel Bearing Tool Kit with Hydraulic Cylinder

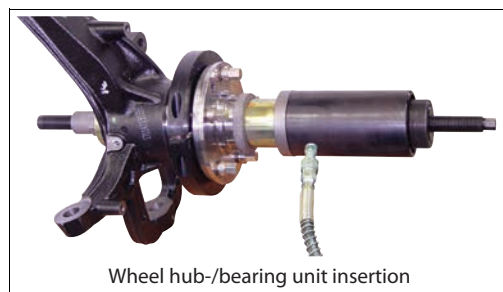
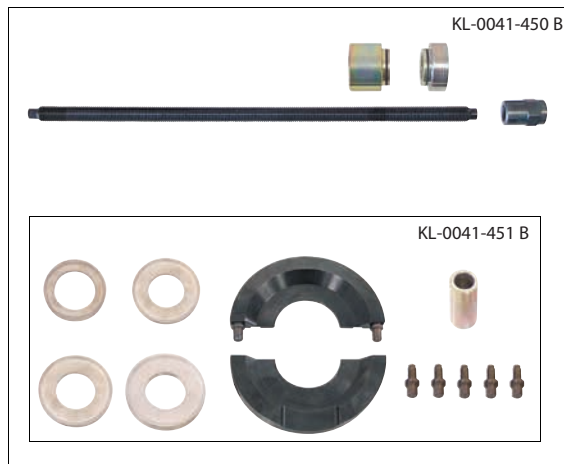
Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0041-450 B	Wheel Bearing Tool without Hydr. Cyl., VW-T5 (Bearing Ø 85mm)	1

Scope of Delivery: KL-0041-450 B Wheel Bearing Tool without Hydr. Cyl.

Part No.	Description	Qty
KL-0041-451 B	Upgrade Kit, VW T5, Ø 85mm	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1

Scope of Delivery: KL-0041-451 B Upgrade Kit, VW-T5 (Bearing Ø 85mm)

Part No.	Description	Qty
KL-0041-4500 B	Clamping Shells (Pair), Ø 85mm	1
KL-0041-3931	Pressure Screw, M14x1.5	5
KL-0039-1502	Pressure Ring, Ø 93mm	1
KL-0039-1803	Centring Sleeve (long), Ø 29.7mm	1
KL-0039-1273	Pressure Ring, Ø 73mm	1
KL-0039-1283	Pressure Ring, Ø 83mm	1
KL-0039-1289	Pressure Ring, Ø 89mm	1



Wheel hub-/bearing unit insertion

KL-0041-40 A

Wheel Bearing Tool Kit with Hydr. Cyl.

Suitable for vehicles with bearing Ø of 75mm, such as Mitsubishi Colt Model (Z30) and Smart Forfour (W454), front axle.

The **KL-0041-40 A** wheel bearing tool kit is used in conjunction with the **KL-0215-35 M25** or **KL-0215-37 M25** hydraulic pump, thus allowing for the quick and safe installation of wheel hub bearing units without any risk of damaging them. Due to its special design, the tool ensures that, while mounting the unit, the applied pressing force is distributed on the outer bearing race only and not on the wheel hub. This prevents damage to the bearing. The removal of the steering knuckle from the vehicle is not necessary.

Scope of Delivery: KL-0041-40 A Wheel Bearing Tool Kit with Hydraulic Cylinder

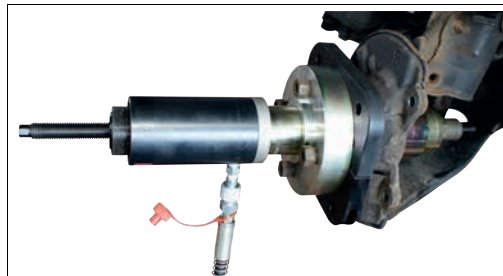
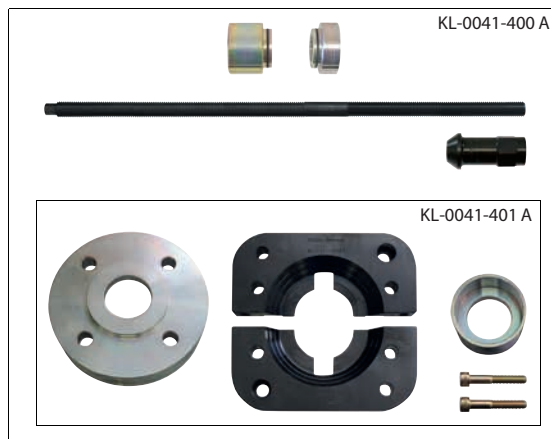
Part No.	Description	Qty
KL-0041-400 A	Wheel Bearing Tool Kit without Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery: KL-0041-400 A Wheel Bearing Tool Kit without Hydr. Cyl.

Part No.	Description	Qty
KL-0041-401 A	Upgrade Kit, Mitsubishi/Smart	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1

Scope of Delivery: KL-0041-401 A Upgrade Kit, Mitsubishi/Smart

Part No.	Description	Qty
KL-0041-4011 A	Clamping Jaw with Thread	1
KL-0041-4012 A	Clamping Jaw without Thread	1
KL-0041-4014 A	Pressure/Support Sleeve	1
KL-0039-1674	Pressure/Support Sleeve, short, Ø 74/66mm	1
KL-0177-2023	Cheese Head Screw, M10x60mm	1



3



Advantages:

- Eliminates the need for follow-up wheel alignments.
- The (17t) **KL-0040-2500** hydraulic cylinder can universally be used on other GEDORE Automotive tools to exert pulling or pushing force.

KL-0041-51 K

(Patented)

Wheel Bearing Tool Kit with 17t Hydr. Cyl., Mercedes Vito/Viano/Sprinter, VW Crafter

Designed for the front axle of Mercedes-Benz Vito/Viano (W639), Sprinter (906), and VW Crafter (2E/2F) vehicles equipped with rear-wheel drive.

This tool allows the removal and installation of wheel hub bearing units on the specified front axles to be performed in situ on the vehicle. The **KL-0041-51 K** wheel bearing tool kit, in conjunction with the wheel hub bearing unit from FAG (Schaeffler Automotive Aftermarket), provides you with an alternative solution for professional repairs. At present, the vehicle manufacturers Mercedes-Benz und Volkswagen only offer complete steering knuckles with a pre-assembled wheel hub bearing unit for these types of repairs. This option, however, would involve further costs and additional work such as a follow-up wheel alignment.

Scope of Delivery: KL-0041-51 K Wheel Bearing Tool Kit with 17t Hydr. Cyl.

Part No.	Description	Qty
KL-0041-510 K	Wheel Bearing Tool Kit without 17t Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder	1

Scope of Delivery: KL-0041-510 K Wheel Bearing Tool Kit without 17t Hydr. Cyl.

Part No.	Description	Qty
KL-0041-500 K	Wheel Bearing Tool Kit without 17t Hydraulic Cylinder	1
KL-0041-5030	Upgrade Kit, Pull/Pressure Plate for Bearing-Ø 92mm	1



KL-0041-50 K

(Patented)

Wheel Bearing Tool Kit with Hydr. Cyl., Mercedes Sprinter/VW Crafter

Designed for the front axle of Mercedes Sprinter (906) and VW Crafter (2E/2F) vehicles equipped with rear-wheel drive.

This tool allows the removal and installation of wheel hub bearing units on the specified front axles to be performed in situ on the vehicle. The **KL-0041-50 K** wheel bearing tool kit, in conjunction with the wheel hub bearing unit from FAG (Schaeffler Automotive Aftermarket), provides you with an alternative solution for professional repairs. At present, the vehicle manufacturers Mercedes-Benz und Volkswagen only offer complete steering knuckles with a pre-assembled wheel hub bearing unit for these types of repairs. This option, however, would involve further costs and additional work such as a follow-up wheel alignment.

Scope of Delivery: KL-0041-50 K Wheel Bearing Tool Kit with Hydraulic Cylinder

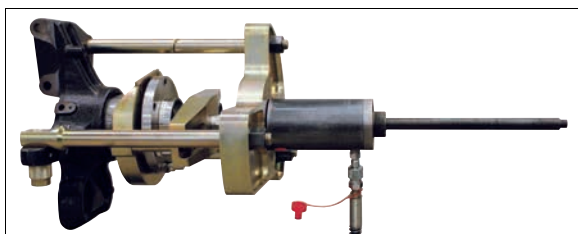
Part No.	Description	Qty
KL-0041-500 K	Wheel Bearing Tool Kit without Hydraulic Cylinder 17t	1
KL-0040-2500	Hydraulic Cylinder	1

Scope of Delivery: KL-0041-500 K Wheel Bearing Tool Kit without 17t Hydr. Cyl.

Part No.	Description	Qty
KL-0041-501	Base Tool	1
KL-0041-502	Pull/Pressure Plate with Bridge, for Bearing Ø 96mm	1
KL-0041-5090	Plastic Storage Case	1

Scope of Delivery: KL-0041-501 Base Tool, Mercedes Sprinter/VW Crafter

Part No.	Description	Qty
KL-0041-5001	Base Plate	1
KL-0041-5002	Supporting Rod with Transverse Bore	1
KL-0041-5003	Screw with Cone, M16x1.5x80mm	1
KL-0041-5004	Disc, Ø 19mm	1
KL-0041-5005	Hexagon Socket Screw, M14x70mm	1
KL-0041-5006	Shoulder Nut M18	1
KL-0041-5007	Reinforcing Rail, 140mm	1
KL-0041-5008	Reinforcing Rail, 275mm	1
KL-0041-5009	Supporting Rod 275mm	1
KL-0041-5010	Adaptor 2¼"-14 UNS to M42x2	1
KL-0041-5011	Pull/Pressure Spindle, M20x600mm	1
KL-0041-5012	Steering Knuckle Mounting Bracket	1
KL-0041-5013	Pressure Nut with Guide Pin	1



Advantages:

- Eliminates the need for follow-up wheel alignments.
- The 17t **KL-0040-2500** hydraulic cylinder can universally be used on other GEDORE Automotive tools to exert pulling or pushing force.

Scope of Delivery:

KL-0041-502 Pull/Pressure Plate with Bridge for Bearing-Ø 96mm

Part No.	Description	Qty
KL-0041-5020	Pull/Pressure Plate for Bearing Ø 96mm	1
KL-0041-5021	Bridge with Thread Insert	1
KL-0041-5022	Spacer Sleeve, Ø 27x50mm	1
KL-0041-5023	Hexagon Socket Screw, M16x90mm	1
KL-0041-5024	Knurled Screw M14x1.5	1
KL-0041-5025	Retaining Pin with O-Ring	1

KL-0041-5030

(Patented)

Pull/Pressure Plate Kit, for Bearing Ø 92mm,
Mercedes Vito/Viano (W636)

Designed for the front axle of Mercedes Vito/Viano (W636) vehicles equipped with rear-wheel drive. The kit requires the wheel bearing tool KL-0041-50.



Scope of Delivery: KL-0041-5030 Pull/Pressure Plate Kit

Part No.	Description	Qty
KL-0041-5030-1	Pull/Pressure Plate for Bearing Ø 92mm	1
KL-0041-5030-2	Closing Plate	1

KL-0041-504

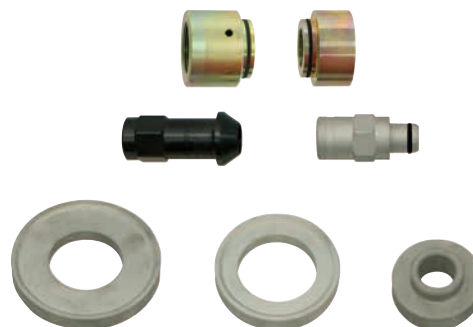
Upgrade Kit,
MB Sprinter/VW Crafter with All-Wheel Drive

Designed for the front axle of Mercedes Sprinter (906) and VW Crafter (2E/2F) vehicles equipped with all-wheel drive.

The kit allows the removal and installation of wheel bearings and hubs. For this, the wheel bearing tool KL-0041-50 K or KL-0041-51 K is necessary.

Scope of Delivery: KL-0041-504 Upgrade Kit, MB Sprinter/VW Crafter with All-Wheel Drive

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor for Clamping Nut M20	1
KL-0039-1003	Retaining Adaptor for Hydraulic Cylinder	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0041-506	Upgrade Kit (small kit), MB Sprinter all-wheel drive	1
KL-0041-5041	Pressure Nut with Guide	1



KL-0041-506

Upgrade Kit (Small Kit),
Mercedes Sprinter/VW Crafter with All-Wheel Drive

Designed for the front axle on Mercedes Sprinter (906) and VW Crafter (2E/2F) vehicles equipped with all-wheel drive.

The kit allows the removal and installation of wheel bearings and hubs. For this, the wheel bearing tool KL-0041-50 K or KL-0041-51 K, retaining adaptor KL-0039-1002, retaining adaptor KL-0039-1003, clamping nut KL-0039-1920-4, and pressure nut KL-0041-5041 are necessary.

Scope of Delivery: KL-0041-506 Upgrade Kit (Small Kit)

Part No.	Description	Qty
KL-0039-1351	Centring Ring, Ø 51mm	1
KL-0039-1270	Pressure Ring, Ø 70mm	1
KL-0039-1295	Pressure Ring, Ø 95mm	1



KL-0041-505

Upgrade Kit, Mercedes Vito/Viano All-Wheel Drive

Designed for the front axle on Mercedes Vito/Viano (W639) vehicles equipped with all-wheel drive.

The kit allows the removal and installation of wheel bearings and hubs. For this, the wheel bearing tool KL-0041-50 K or KL-0041-51 K is necessary.

Scope of Delivery: KL-0041-505 Upgrade Kit, Mercedes Vito/Viano All-Wheel Drive

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor for Clamping Nut M20	1
KL-0039-1003	Retaining Adaptor for Hydraulic Cylinder	1
KL-0041-507	Upgrade Kit (small kit), Vito/Viano all-wheel drive	1
KL-0041-5041	Pressure Nut with Guide	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1



KL-0041-507

Upgrade Kit (Small Kit),
Mercedes Vito/Viano with All-Wheel Drive

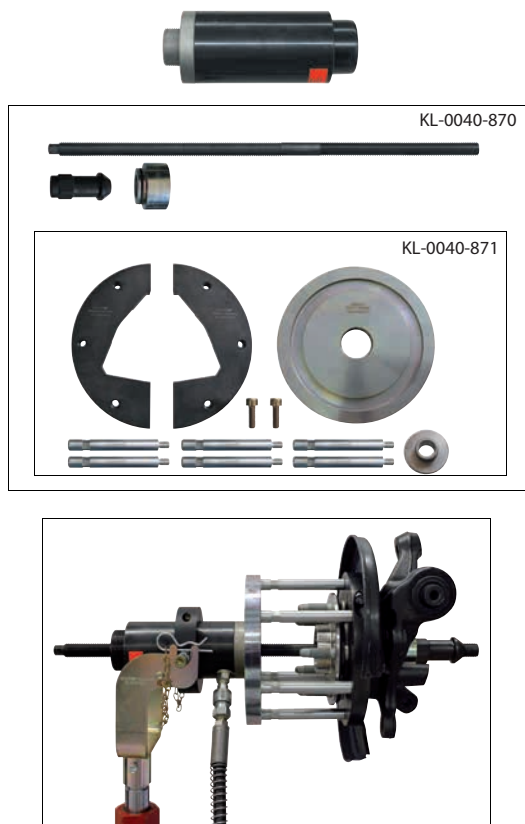
Designed for the front axle on Mercedes Vito / Viano (W639) equipped with all-wheel drive.

The kit allows the removal and installation of wheel bearings and hubs. For this, the wheel bearing tool KL-0041-50 K or KL-0041-51 K, retaining adaptor KL-0039-1002, retaining adaptor KL-0039-1003, and pressure nut KL-0041-5041 are necessary.

Scope of Delivery: KL-0041-507 Upgrade Kit (Small Kit)

Part No.	Description	Qty
KL-0039-1350	Centring Ring, Ø 50mm	1
KL-0039-1270	Pressure Ring, Ø 70mm	1
KL-0039-1274	Pressure Ring, Ø 74mm	1
KL-0039-1291	Pressure Ring, Ø 91mm	1





KL-0040-87

Wheel Bearing Removal Tool Kit with Hydraulic Cylinder (17t), Opel/Vauxhall Insignia

Designed for the compact wheel hub bearing units found at the front and rear axle of Opel/Vauxhall Insignia models from 2008 onwards.

The **KL-0040-87** wheel bearing tool is used in conjunction with a hydraulic pump (such as **KL-0215-35 M25** or **KL-0215-37 M25**), thus allowing for the quick and trouble-free removal of flanged one-piece compact wheel hub bearing units from the front and rear axle. Even severely seized wheel bearings are no longer an issue using the **KL-0040-2500** hydraulic cylinder (17t). The removal of the steering knuckle/stub axle is not necessary.

Scope of Delivery: KL-0040-87 Wheel Bearing Removal Tool Kit with Hydr. Cyl.

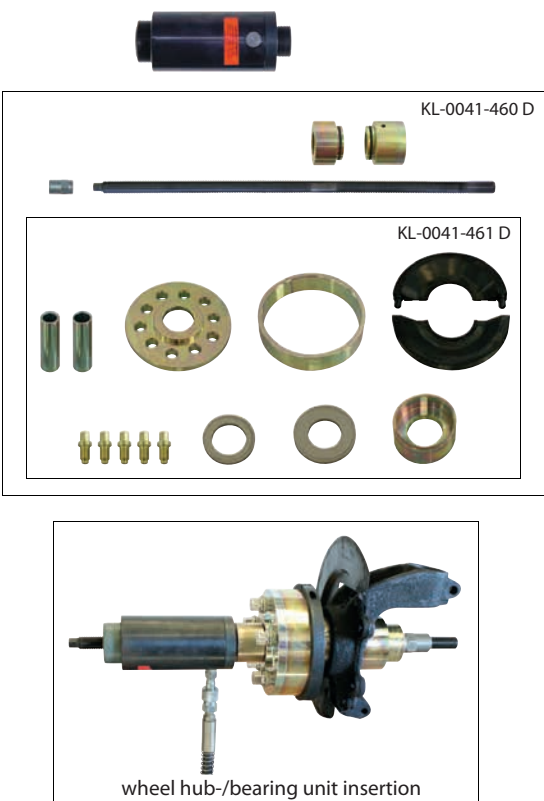
Part No.	Description	Qty
KL-0040-870	Wheel Bearing Removal Tool Kit without Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery: KL-0040-870 Wheel Bearing Removal Tool Kit without Hydr. Cyl.

Part No.	Description	Qty
KL-0040-871	Upgrade Kit to Wheel Bearing Removal Tool Kit	1
KL-0039-1002	Retaining Adaptor for Clamping Nut	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1

Scope of Delivery: KL-0040-871 Upgrade Kit for Wheel Bearing Removal Tool Kit

Part No.	Description	Qty
KL-0040-8701	Clamping Jaw with Thread	1
KL-0040-8702	Clamping Jaw without Thread	1
KL-0040-8703	Bolt	1
KL-0040-8704	Cheese Head Screw, M10x35mm	1
KL-0040-8612 A	Pressure Ring, Ø 210mm	1
KL-0039-1506	Centring Ring, Ø 60mm	1



KL-0041-46 D

Wheel Bearing Tool with Hydraulic Cylinder, Volvo/Ford/Mazda

Suitable for vehicles with bearing Ø of 78mm; e.g. Ford Focus II, C-Max (10/03 onwards); Mazda 3 (from 10/03 to 06/09) Volvo C30, C70 II, S40 II, V50; and bearing-Ø 82mm; e.g. Ford S-Max (2006 onwards), Galaxy (2006 onwards), Mondeo IV (2006 onwards); Volvo S60 II, S80 II, V60, V70 III (10/2007 onwards), XC60, XC70 II.

Designed for the quick and safe installation of wheel hub bearing units in-situ on the vehicle. Due to its special design, the tool ensures that while installing the unit the applied pressing force is distributed on the outer bearing race only, and not on the wheel hub. This prevents damage to the bearing. Professional installation of wheel hub bearing units is almost impossible without the use of this tool kit.

Scope of Delivery: KL-0041-46 D Wheel Bearing Tool with Hydraulic Cylinder

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0041-460 D	Wheel Bearing Tool without Hydraulic Cylinder, Volvo/Ford/Mazda	1

Scope of Delivery: KL-0041-460 D Wheel Bearing Tool without Hydraulic Cylinder

Part No.	Description	Qty
KL-0041-461 D	Upgrade Kit, Volvo	1
KL-0039-1002	Retaining adaptor for clamping nut and pressure spindle with O-ring	1
KL-0039-1003	Retaining adaptor for hydraulic cylinder with O-ring	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1

Scope of Delivery: KL-0041-461 D Upgrade Kit for Wheel Hub Bearing Unit Installation

Part No.	Description	Qty
KL-0041-4600 D	Clamping Jaws (pair), Ø 78mm	1
KL-0041-4607	Housing	1
KL-0041-4608 D	Cover	1
KL-0039-1288	Pressure Ring, Ø 88mm	1
KL-0041-3931	Pressure Screw, M14x1.5	5
KL-0041-4601	Guide Sleeve, Ø 29.5mm	1
KL-0039-1272	Pressure Ring, Ø 72mm	1
KL-0041-4602	Guide Sleeve, Ø 26.3mm	1
KL-0039-1682	Pressure/Support Sleeve, short, Ø 82mm	1

Note:

- To remove wheel hub bearing units, the wheel hub puller **KL-0041-38** is required.
- To drive the hydraulic cylinder **KL-0040-2500**, a hydraulic pump is required.

SPANNERS OVERVIEW

Durable and for high loadings

- › For heavy continuous use and safety in everyday work
- › High torque - GEDORE quality spanners do not fracture or splinter when overloaded, but deform under incorrect use, therefore posing a lower risk of injury to the user
- › Comfortable to hold due to ergonomic profiles without sharp edges
- › Secure grip even with oily hands
- › Non-glare look thanks to matt chrome-plating



A well-functioning extended range

- › Extremely large selection in standardised and non-standardised, metric (mm), imperial (AF) and Whitworth (W) sizes
- › Top-grade industrial quality for the hardest of continuous use
- › Available individually or in practical sets or modules
- › Customised manufacturing, designs and types on request

Everything safely under control

- › Use of the very best raw materials, state-of-the-art machinery and environmentally-friendly production processes
- › Tools without chrome VI have been a given thing for several years
- › Our tool experts guarantee precision-like processing and permanent development
- › Unique manufacturing processes and special tool treatment for optimum results
- › Stringent quality checks after each production step ensure a constantly high level
- › Professional service through to development of special customised tools



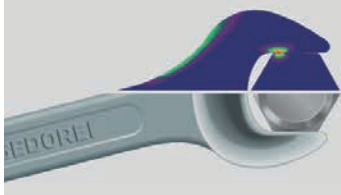
Precision, correct measurements and perfect fit

- › The most important requirements a safe working environment
- › Complete transmission of available torque
- › Long life of nut and bolt
- › Profiles easy on the bolt heads (UD, jaw, hexagon)
- › Minimum production tolerances ensure that spanners fit perfectly on bolts

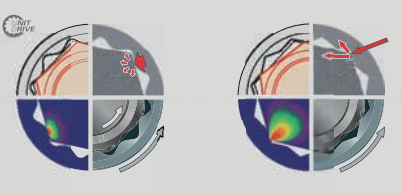


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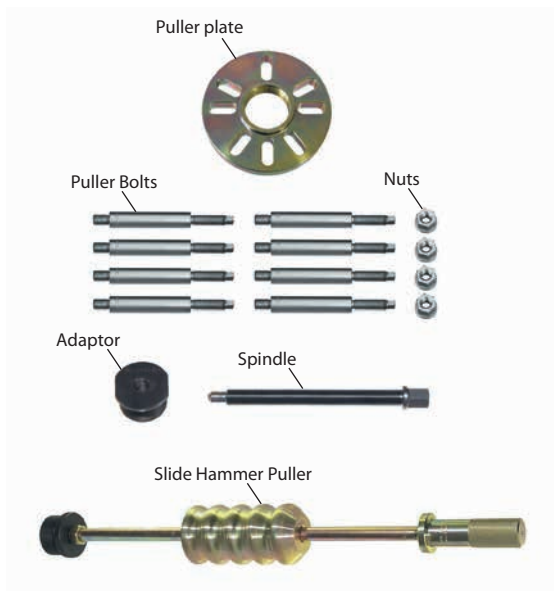
TOLERANCES



UNIT-DRIVE PROFIL



KL-0174 - Puller Series



The **KL-0174-.. Puller Series** is designed to cover a variety of applications. Used in conjunction with the 17t hydraulic cylinder **KL-0040-2500** and pressure spindle **KL-0039-1930** or 12t hydraulic spindle **KL-0045-7**, it allows for the professional removal of drive shafts which are bonded with Loctite or corroded in place. With the additional aid of the **KL-0049-31** slide hammer puller, also wheel hubs, brake drums and half shaft can be pulled off properly. The puller series works in situ on the vehicle.

The **KL-0174- Puller Series** can easily be upgraded to an all-purpose puller-system by combining the different puller plates, puller bolts, and drives.

Range of Applications:

- **Removing drive shafts with the aid of a mechanical or hydraulic drive.**

Even corroded, bonded or very stubborn drive shafts can be removed properly using the **KL-0040-2500** 17t hydraulic cylinder and **KL-0039-1930** pressure spindle.

- **Extracting wheel hubs, half shaft, brake drums with the aid of slide hammer puller KL-0049-31.**

The additional use of the **KL-0049-31** slide hammer puller allows the professional removal of wheel hubs, brake drums and half shafts to be performed in situ on the vehicle.

Wheel Hubs

Standard Hub,
4 Wheel bolts

Standard Hub,
5 Wheel nuts

4X4 Off-Road,
6 Wheel nuts



In order to ensure the appropriate puller from the KL-0174 Series is used, the following important data must be known:

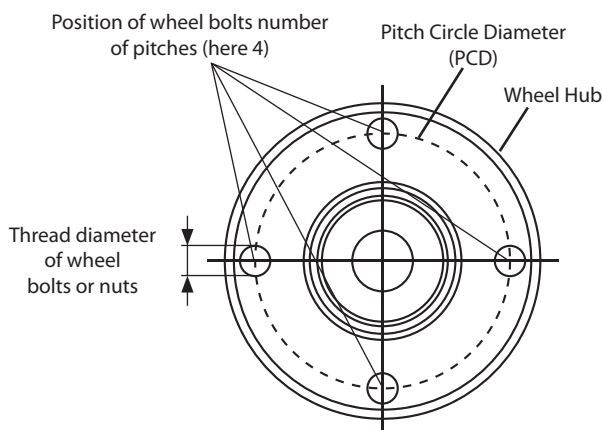
- Pitch Circle Diameter (PCD) and number of wheel fixing points (3-, 4-, 5-, or 6-hole).

➔ Important in order to determine the appropriate plate size with the correct number of fixing points.

- Thread dimensions of the wheel bolts (Type B) or wheel nuts (Type M).
- ➔ Important in order to determine the correct puller bolts having either an inner or an outer thread.

- What drive is to be used: a mechanical spindle, a hydraulic spindle, a hydraulic cylinder or a slide hammer puller?

➔ Important in order to determine the correct adaptor (see table).

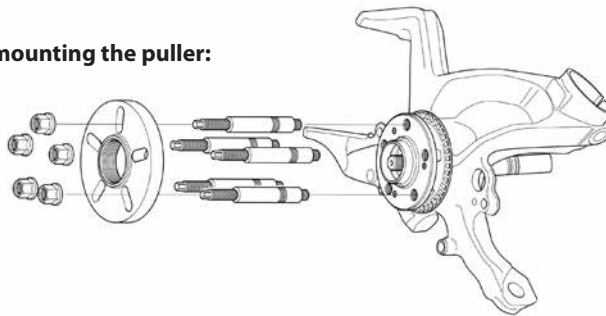


KL-0174 - Puller Series

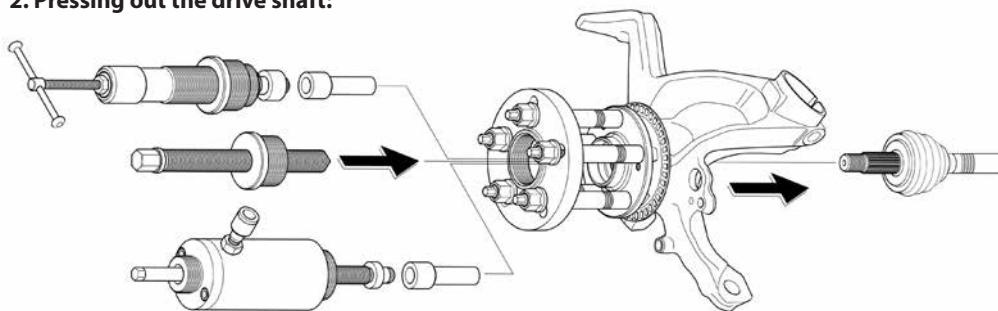
Components for the assembly of a puller from the KL-0174-...Puller Series.

The puller plates (size 0, 1, 2 and 3) in combination with the different adaptors, spindles, puller bolts, screws and drives can easily be assembled to an all-purpose puller-system.

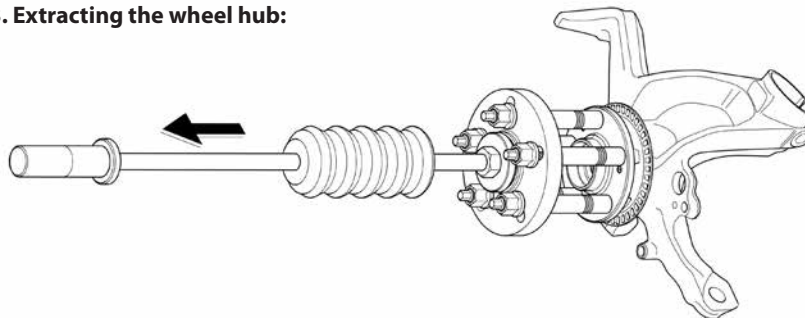
1. Assembling and mounting the puller:



2. Pressing out the drive shaft:



3. Extracting the wheel hub:

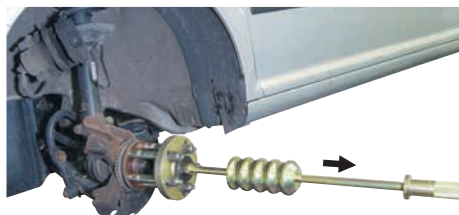


Examples of use:

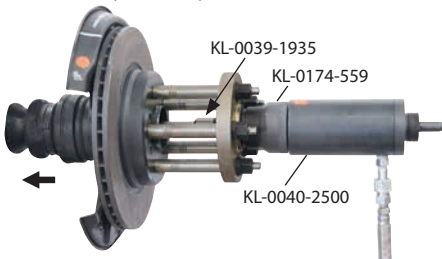
Pressing out the drive shaft flange



Removing a hub using the slide hammer

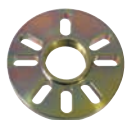


Pressing out the drive shaft using the 17t hydraulic cylinder.



Pressing out the drive shaft using the mechanical spindle.





Note:
The universal puller set **KL-0174-110** can easily be upgraded with additional puller discs, adaptors, spindles and puller bolts.

KL-0174-110

Puller Set

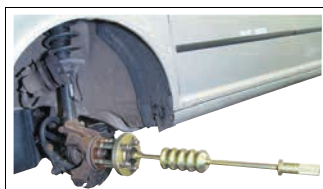
Application: VW-Audi, Alfa Romeo, BMW, Fiat, Ford, Mercedes, Opel/Vauxhall, Porsche, Renault, Seat, Škoda, etc.

Designed to press out drive shafts mechanically.

Even bonded, corroded or heavily seized drive shafts are no longer an issue by using the 17t hydraulic cylinder (available as accessory).

Scope of Delivery: KL-0174-110 Puller Set

Part No.	Description	Qty
KL-0174-240	Puller Plate, size 2 (3-, 4- and 5-hole)	1
KL-0174-723	Puller Bolt, type B, M12x1.5 (l=100)	4
KL-0174-724	Puller Bolt, type B, M14x1.5 (l=100)	4
KL-0174-701	Hex Shoulder Nut, M14	4
KL-0174-547	Adaptor 2 1/4"-14 UNS to M20x2	1
KL-0174-620	Spindle, M20x2x230mm	1



KL-0174-111

Puller Set with Slide Hammer Puller

Suitable for VW-Audi, Alfa Romeo, BMW, Fiat, Ford, Mercedes, Opel/Vauxhall, Porsche, Renault, Seat, Škoda, etc.

This set is designed to mechanically press out drive shafts with the aid of pressure spindle M20. It can also be used in conjunction with the slide hammer puller to remove wheel hubs, half-shafts etc.

Even bonded, corroded or severely seized shafts can be pressed out without any trouble using the 17t hydraulic cylinder (accessory) instead of the M20 pressure spindle.

Note:

The **KL-0174-111** Universal Puller Set can be further enhanced with additional puller plates, adaptors, spindles and puller bolts.

Scope of Delivery: KL-0174-111 Puller Set with Slide Hammer

Part No.	Description	Qty
KL-0174-240	Puller Plate, Size 2 (3-, 4- and 5-hole)	1
KL-0174-723	Puller Bolt, Type B, M12x1.5 (l=100)	4
KL-0174-724	Puller Bolt, Type B, M14x1.5 (l=100)	4
KL-0174-701	Hex Shoulder Nut, M14	4
KL-0174-547	Adaptor, 2 1/4"-14 UNS to M20x2	1
KL-0174-620	Spindle, M20x2x230	1
KL-0049-31	Slide Hammer Puller, 4.8kg	1



Scope of Delivery:

KL-0174-150 K Puller Set, in a Plastic Storage Case

Part No.	Description	Qty
KL-0174-150 E	Puller Set in a Foam Insert	1
KL-4999-1391	Plastic Storage Case	1

Scope of Delivery:

KL-0174-150 E Puller Set (for Wheel Hubs etc.), in a Foam Insert

Part No.	Description	Qty
KL-0174-150	Puller Set (for wheel hubs, etc.)	1
KL-4999-1316	Foam Insert	1

KL-0174-150 K

Puller Set, in a Plastic Storage Case

Suitable for VW-Audi, Alfa Romeo, BMW, Citroën, Fiat, Ford, Honda, Hyundai, KIA, Lancia, Mazda, Mercedes, Mini, Mitsubishi, Nissan, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Škoda, Smart, Suzuki, Toyota, Volvo etc.

The tools of this set are designed to be used with the **KL-0040-2500** hydraulic cylinder for pressing out drive shafts. The set can also be used in conjunction with the **KL-0049-31** slide hammer puller to extract wheel hubs, full-floating axles etc.

Scope of Delivery: KL-0174-150 Puller Set

Part No.	Description	Qty
KL-0039-1935	Thrust Piece	1
KL-0174-559	Adaptor	1
KL-0174-701	Hex Shoulder Nut M14	4
KL-0174-240	Puller Plate, Size 2 (3-, 4- and 5-hole)	1
KL-0174-722	Puller Bolt Type B, M12x1.25	4
KL-0174-723	Puller Bolt Type B, M12x1.5	4
KL-0174-724	Puller Bolt Type B, M14x1.5	4
KL-0174-727	Puller Bolt Type B, M14x1.25	4
KL-0174-762	Puller Bolt Type M, M12x1.25	4
KL-0174-763	Puller Bolt Type M, M12x1.5	4
KL-0174-764 A	Puller Bolt Type M, M14x1.5	4

KL-0174-... Puller Plates

Components for the assembly of a Puller from the Puller-Series KL-0174-...

The puller plates can be assembled to an all-purpose puller-system by using different adaptors, spindles, puller bolts, screws and drives.

KL-0174-020 Puller Plate, Size 0

Technical Data:

Spindle Inner Thread:	M16x1.5
PCD:	40-88mm
Outer-Ø:	108mm
Fixing Hole Pattern:	2, 3, 4-hole pitch

KL-0174-140 Puller Plate, Size 1 (3-, 4- and 5-hole)

Technical Data:

Spindle Inner Thread:	M42x2
PCD:	76-105mm
Outer-Ø:	130mm
Fixing Hole Pattern:	2, 3, 4, 5, 6-hole pitch

KL-0174-240 Puller Plate, Size 2 (3-, 4- and 5-hole)

Technical Data:

Spindle Inner Thread:	2¼"-14 UNS
PCD:	90-130mm
Outer-Ø:	160mm
Fixing Hole Pattern:	2, 3, 4, 5, 6-hole pitch

KL-0174-360 Puller Plate, Size 3 (3-, 4- and 5-hole)

Technical Data:

Spindle Inner Thread:	2¼"-14 UNS
PCD:	100-180mm
Outer-Ø:	220mm
Fixing Hole Pattern:	2, 3, 4, 5, 6-hole pitch

KL-0174-... Adaptors

Component for the assembly of a Puller from the KL-0174-...Puller-Series.

Part No.	Description	Part No.	Description
KL-0174-510	Adaptor M42x2 to M14	KL-0174-545	Adaptor 2¼"-14 UNS to M18
KL-0174-511	Adaptor M42x2 to M14x1,5	KL-0174-547	Adaptor 2¼"-14 UNS to M20x2
KL-0174-513	Adaptor M42x2 to M16x1,5	KL-0174-549	Adaptor 2¼"-14 UNS to M22x2
KL-0174-515	Adaptor M42x2 to M18x1,5	KL-0174-551	Adaptor 2¼"-14 UNS to M24x2
KL-0174-516	Adaptor M42x2 to M18x2,5	KL-0174-552	Adaptor 2¼"-14 UNS to M42x2
KL-0174-517	Adaptor M42x2 to M20x2	KL-0174-555	Adaptor 2¼"-14 UNS to 1½"-16 UN
KL-0174-519	Adaptor M42x2 to M22x2	KL-0174-566	Adaptor 2¼"-14 UNS to M60x2
KL-0174-521	Adaptor M42x2 to M24x2	KL-0174-567	Adaptor 2¼"-14 UNS to G1 1/2"-11
KL-0174-535	Adaptor 1½"-16 UNS to M18	KL-0174-559	Adaptor 2¼"-14 UNS to 2¼"-14 UNS
KL-0174-540	Adaptor 2¼"-14 UNS to M14	KL-0174-543	Adaptor 2¼"-14 UNS to M16
KL-0174-542	Adaptor 2¼"-14 UNS to M16x1,5	KL-0174-563	Adaptor 2¼"-14 UN to Ø 60mm
KL-0174-544	Adaptor 2¼"-14 UNS to M18x1,5	KL-0174-565	Adaptor M68x2 to 2¼"-14 UNS

KL-0174-020



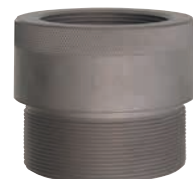
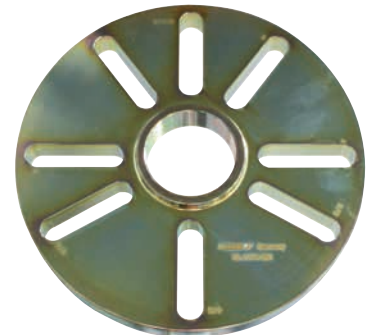
KL-0174-140



KL-0174-240



KL-0174-360





KL-0174-... Spindles

Components for the assembly of a Puller from the KL-0174-...Puller-Series.

Part No.	Description
KL-0174-610	Spindle M14x1,5x150
KL-0174-615	Spindle M18x1,5x150
KL-0174-618	Spindle M20x1,5x230
KL-0174-619	Spindle M20x2x150
KL-0174-623	Spindle M22x2x150

Part No.	Description
KL-0174-624	Spindle M22x2x230
KL-0174-620	Spindle with pin (Ø 14mm) M20x2x230
KL-0174-812	Spindle with pin (Ø 14mm) M16x1,5x150
KL-0174-817	Spindle with pin (Ø 14mm) M20x1,5x150



KL-0174-... Puller Bolts, Type B

Outer thread (Wheel bolt system)

Technical Data:

Length without thread:	100mm
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Part No.	Description
KL-0174-722	Puller Bolt Typ B, M12x1,25
KL-0174-723	Puller Bolt Typ B, M12x1,5
KL-0174-724	Puller Bolt Typ B, M14x1,5

Part No.	Description
KL-0174-725	Puller Bolt Typ B, M16x1,5
KL-0174-726	Puller Bolt Typ B, M12x1,75
KL-0174-727	Puller Bolt Typ B, M14x1,25



KL-0174-... Puller Bolts, Type M

Inner thread (Wheel nut system)

Technical Data:

Length without thread:	100mm
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Part No.	Description
KL-0174-762	Puller Bolt Typ M, M12x1,25
KL-0174-763	Puller Bolt Typ M, M12x1,5
KL-0174-764 A	Puller Bolt Typ M, M14x1,5
KL-0174-765	Puller Bolt Typ M, M16x1,5

Artikel-Nr	Description
KL-0174-767	Puller Bolt Typ M, M14
KL-0174-768	Puller Bolt Typ M, M12
KL-0174-769	Puller Bolt Typ M, 1/2"-20 UNF



KL-0174-700 Shoulder Nut Set (6-pc.), M14

Technical Data:

Size:	22mm
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KL-0174-701 Shoulder Nut, M14

Technical Data:

Size:	22mm
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KL-0174-547 Adaptor, 2 1/4"-14 UNS to M20x2

Component for the assembly of a Puller from the KL-0174-...Puller-Series.



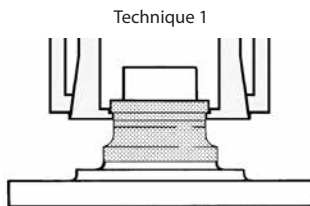
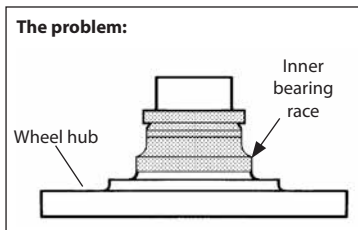
KL-0174-620 Spindle with Pin (Ø 14mm), M20x2x230

Component for the assembly of a Puller from the Puller-Series KL-0174-...

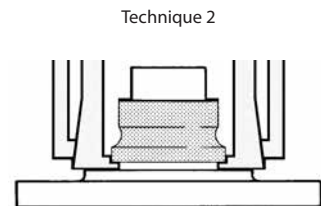
Inner bearing race puller

KL-0042-...

1. Pulling techniques for inner bearing races (Choose the appropriate pulling technique)

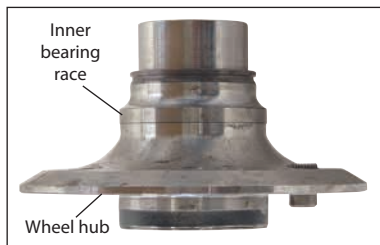


When using technique 1, the collet chuck engages behind the inner bearing race.



When using technique 2, the collet chuck engages the groove/recess of the inner bearing race.

3



Identify the inner bearing race Ø



Determine suitable collet chuck.
For this, measure the inner bearing race Ø on the area to be clamped.

2. Place the pulling device on the inner bearing race and close the collet chuck.



Close the collet chuck by tightening the clamping nut.

3. Remove the inner bearing race.



Remove the inner bearing race from the wheel hub by screwing in the pressure spindle.



Scope of Delivery: KL-0045-7 Hydraulic Spindle (12t), M42x2

Part No.	Description	Qty
KL-0045-700	Hydraulic Spindle (12t, Base Tool), M42x2	1
KL-0045-7009	Pressure Piece, short	1
KL-0045-7020	Pressure Piece, long	1

KL-0045-7

Hydraulic Spindle (12t), M42x2

The KL-0045-7 is a hydraulic spindle with a maximum allowable force of 120kN (=12t) designed to fit a wide range of GEDORE Automotive tools.

The base tool KL-0045-700 consist of a body made of high-grade steel, two internal pistons, cup seals and various screw joints. The spindle is operated via a pressure screw.

If the hydraulic spindle KL-0045-7 is combined with tools of the KL-0174-Series, the adaptor KL-0174-552 (2¼"-14 UNS to M42x2) is additionally needed when the perforated puller plates size 2 and size 3 are used.

Technical Data:

Maximum admissible force:	120kN (12t)
Maximum stroke:	16mm
Thread of cylinder:	M42x2
Length without 'T' Handle:	240mm
Weight:	2.3kg



KL-0040-2500

Hydraulic Cylinder, 17t

Thanks to its special design as a hollow piston cylinder, the KL-0040-2500 hydraulic cylinder (17t) can be used to perform pulling as well as pushing operations in conjunction with the corresponding spindles available as accessories.

Technical Data:

Maximum admissible force:	170kN (17t)
Maximum stroke:	45mm
Maximum oil pressure:	700bar
Maximum volume of oil:	122cm ³
Piston area:	27cm ²
Thread in hollow piston:	M20
Retaining thread (pushing side):	2¼"-14 UNS
Retaining thread (pulling side):	M42x2
Cylinder external diameter:	80mm
Cylinder overall length (piston retracted):	202mm
Cylinder overall length (piston extended):	247mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	5.2kg

Range of Use:

In conjunction with various GEDORE Automotive tools, the hydraulic cylinder (17t) KL-0040-2500 can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentblocs and suspension ball joints.

Note:

A hydraulic pump is needed to drive the hydraulic cylinder KL-0040-2500. For accessories such as coupling, hydraulic pump, pressure gauge etc., please refer to chapter 4 in this Catalogue).

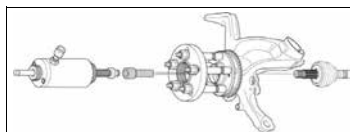


KL-0039-1930

Pressure Spindle with O-Ring, M20x350

Technical Data:

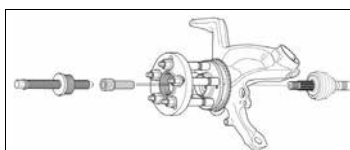
Pin Ø:	20mm
Overall length:	350mm
Maximum load capacity:	20t



KL-0039-1935

Thrust Piece

This tool is necessary for pressing out drive shafts. It is used in conjunction with the KL-0174-... Puller Series, the KL-0040-2500 hydraulic cylinder and the KL-0039-1930 pressure spindle with pin Ø 20mm.



KL-0174-856

Thrust Piece for Drive Shafts

Designed to press out drive shafts. Used in conjunction with the tools of the KL-0174-... Series and mechanical pressure spindles with a pin Ø of 14mm.

KL-0174-559

Adaptor, 2 1/4"-14 UNS to 2 1/4"-14 UNS

This adaptor is needed to operate the hydraulic cylinder **KL-0040-2500** when the perforated puller plates (size 2 and size 3) having a pitch circle diameter of 90-102mm from the **KL-0174-.. Series** are to be used.

Technical Data:

External thread:	2 1/4"-14 UNS
Internal thread:	2 1/4"-14 UNS

Note: Other dimensions available upon request.

Retaining thread for hydraulic cylinder



Retaining thread for tool set

KL-0049-31

Slide Hammer Puller (4.8kg), with Adaptor 2 1/4"-14 UNS to M18

Designed to extract wheel hubs, half-shafts, drive shafts, brake drums etc. Used in conjunction with the **KL-0174-.. Puller Series**.

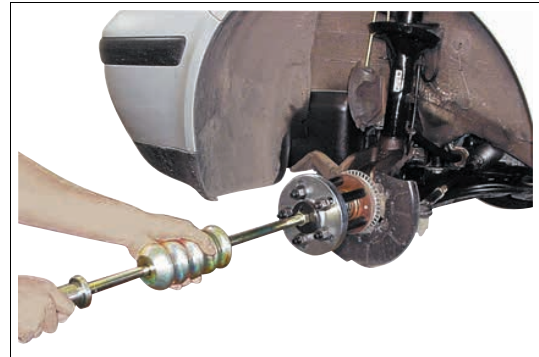
Technical Data:

Hammer weight:	4.8kg
Length:	690mm
Connection thread on pull rod:	M18

Scope of Delivery:

KL-0049-31 Slide Hammer Puller, 4.8kg, with Adaptor 2 1/4"-14 UNS to M18

Part No.	Description	Qty
KL-0049-3001	Pull Rod for KL-0049-3	1
KL-0049-3002	Hammer Weight (4.8kg) for KL-0049-3	1
KL-0049-3003	Handle for KL-0049-3	1
KL-0049-3004	Hex Nut, M18	1
KL-0174-545	Adaptor, 2 1/4"-14 UNS to M18	1



3

KL-010...

Pairs of Pressure Screws

For Wheel Hub extraction.

Note:

The pressure screws are not suitable for all vehicles!

KL-0105

Pair of Pressure Screws, M12x1.25

Suitable for Alfa Romeo, Citroën, Fiat, Lancia, Lada, Peugeot, Seat.



KL-0106

Pair of Pressure Screws, M12x1.5

Suitable for BMW, Ford, Mazda, Mercedes, Opel/Vauxhall, Renault, Seat, VW.



KL-0107

Pair of Pressure Screws, M14x1.5

Suitable for Audi, Citroën, Fiat, Mercedes, Peugeot, VW.



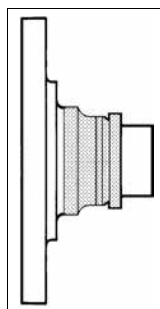
KL-0252-10

Inner Bearing Race Puller

Suitable for VW Golf (IV) with ABS-ring.

Designed to remove the inner bearing race from the front wheel hub.

3



KL-0042-90 K

Inner Bearing Race Puller Set

Can be used universally on vehicles with an inner bearing race Ø of from 44-72mm, such as VW-Audi, Ford, Lancia, Renault, Seat, Škoda, etc.

This tool is designed for the precise removal of inner bearing races from the wheel hub.

The removal of the wheel hub usually leaves the inner bearing race on the wheel hub. It is almost impossible to remove inner bearing races without suitable tools.

Makeshift methods using grinders, chisels and welding torches bear high accident risks such as the risk of severe personal injury or damage to the components.

The puller set **KL-0042-90 K** allows inner bearing races with **diameters of from 44-72mm** to be removed from the wheel hub within just a few minutes.

Scope of Delivery:

KL-0042-90 K Inner Bearing Race Puller Set

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller (base tool)	1
KL-0042-9031	Collet Chuck, Size 3, Ø 44-48mm	1
KL-0042-9041	Collet Chuck, Size 4, Ø 48-52mm	1
KL-0042-9051	Collet Chuck, Size 5, Ø 52-56mm	1
KL-0042-9061	Collet Chuck, Size 6, Ø 56-60mm	1
KL-0042-9071	Collet Chuck, Size 7, Ø 60-64mm	1
KL-0042-9081	Collet Chuck, Size 8, Ø 64-68mm	1
KL-0042-9091	Collet Chuck, Size 9, Ø 68-72mm	1
KL-0042-9099	Plastic Storage Case	1

Scope of Delivery:

KL-0042-900 Inner bearing race puller; base tool

Part No.	Description	Qty
KL-0042-9001	Clamping Nut	1
KL-0042-9002	Handle	1
KL-0042-9004	Special Ring Spanner, Size 36mm	1
KL-0174-817	Spindle with Pin, M20x1.5x150	1
KL-0174-851	Pressure Piece for Wheel Hubs	1
KL-0174-854	Pressure Piece for Wheel Hubs	1



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-0042-...

Inner Bearing Race Pullers

These tools are designed for the precise removal of inner bearing races from the wheel hub. The removal of the wheel hub usually leaves the inner bearing race on the hub. It is almost impossible to remove inner bearing races without suitable tools. Makeshift methods using grinders, chisels and welding torches bear high accident risks such as the risk of severe personal injury or damage to the components.

KL-0042-903

Inner Bearing Race Puller, Size 3, Ø 44-48mm

Suitable for inner bearing race Ø 44-48mm. For example on Lancia Cappa, Renault etc.

Scope of Delivery: KL-0042-903 Inner Bearing Race Puller, Size 3, Ø 44-48mm

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9031	Collet Chuck, Size 3, Ø 44-48mm	1

KL-0042-904

Inner Bearing Race Puller, Size 4, Ø 48-52mm

Suitable for inner bearing race Ø 48-52mm. For example on Ford Transit, T330 etc.

Scope of Delivery: KL-0042-904 Inner Bearing Race Puller, Size 4, Ø 48-52mm

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9041	Collet Chuck, Size 4, Ø 48-52mm	1

KL-0042-905

Inner Bearing Race Puller, Size 5, Ø 52-56mm

Suitable for inner bearing race Ø 52-56mm. For example on VW-Audi, Seat, Škoda etc.

Scope of Delivery: KL-0042-905 Inner Bearing Race Puller, Size 5, Ø 52-56mm

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9051	Collet Chuck, Size 5, Ø 52-56mm	1

KL-0042-906

Inner Bearing Race Puller, Size 6, Ø 56-60mm

Suitable for inner bearing race Ø 56-60mm. For example on Mercedes W168 etc.

Scope of Delivery: KL-0042-906 Inner Bearing Race Puller, Size 6, Ø 56-60mm

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9061	Collet Chuck, Size 6, Ø 56-60mm	1

KL-0042-907

Inner Bearing Race Puller, Size 7, Ø 60-64mm

Suitable for inner bearing race Ø 60-64mm. For example on Mercedes W201, W202, W203, W210, W124, BMW, Peugeot, etc.

Scope of Delivery: KL-0042-907 Inner Bearing Race Puller, Size 7, Ø 60-64mm

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9071	Collet Chuck, Size 7, Ø 60-64mm	1



KL-0042-908

Inner Bearing Race Puller, Size 8, Ø 64-68mm

Suitable for inner bearing race Ø 64-68mm. For example on Mercedes A-Class (W169), B-Class (W245), E-Class (W211), M-Class (W163), S-Class (W220), W124, W140.

Scope of Delivery: KL-0042-908 Inner Bearing Race Puller

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9081	Collet Chuck, Size 8, Ø 64-68mm	1

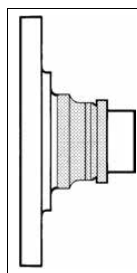
KL-0042-909

Inner Bearing Race Puller, Size 9, Ø 68-72mm

Suitable for inner bearing race Ø 68-72mm. For example on VW Touareg, Porsche Cayenne etc.).

Scope of Delivery: KL-0042-909 Inner Bearing Race Puller

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base tool	1
KL-0042-9091	Collet Chuck, Size 9, Ø 68-72mm	1



KL-0042-91 K

Inner Bearing Race Puller Set, with Collet Chucks in Size 4 and Size 5

Universally suitable for vehicles with inner bearing race Ø of from 48-56mm, e.g. VW-Audi, Ford, Lancia, Renault, Seat, Škoda, etc.

This tool set is designed for the precise removal of inner bearing races from the wheel hub. The removal of the wheel hub usually leaves the inner bearing race on the wheel hub. It is almost impossible to remove inner bearing races without the suitable tools. Makeshift methods using grinder, chisel and welding torch bear high accident risks such as the risk of severe personal injury or damage to the components. The puller set **KL-0042-91 K** allows inner bearing races with **diameters of from 48mm up to 56mm** to be removed from the wheel hub within just a few minutes.

Scope of Delivery: KL-0042-91 K Inner Bearing Race Puller Set

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, Base Tool	1
KL-0042-9041	Collet Chuck, Size 4, Ø 48-52mm	1
KL-0042-9051	Collet Chuck, Size 5, Ø 52-56mm	1
KL-0042-9099	Plastic Storage Case	1



KL-0042-92 K

Inner Bearing Race Puller Set, with Collet Chucks in Size 6, 7, 8

Universally suitable for vehicles with inner bearing race Ø of from 56-68mm, e.g. VW-Audi, BMW, Ford, Lancia, Renault, Seat, Škoda, etc.

This tool set is designed for the precise removal of inner bearing races from the wheel hub. The removal of the wheel hub usually leaves the inner bearing race on the wheel hub. It is almost impossible to remove inner bearing races without suitable tools. Makeshift methods using grinders, chisels and welding torches bear high accident risks such as the risk of severe personal injury or damage to the components. The puller set **KL-0042-92 K** allows inner bearing races with **diameters of from 56mm up to 68mm** to be removed from the wheel hub within just a few minutes.

Scope of Delivery: KL-0042-92 K Inner Bearing Race Puller Set

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, base tool	1
KL-0042-9061	Collet Chuck, Size 6, Ø 56-60mm	1
KL-0042-9071	Collet Chuck, Size 7, Ø 60-64mm	1
KL-0042-9081	Collet Chuck, Size 8, Ø 64-68mm	1
KL-0042-9099	Plastic Storage Case	1



KL-0042-93 K

Inner Bearing Race Puller Set, with Collet Chucks in Size 3, 4, 5

Universally suitable for vehicles with inner bearing race Ø of from 44-56mm, e.g. VW-Audi, Ford, Lancia, Renault, Seat, Škoda, etc.

This tool set is designed for the precise removal of inner bearing races from the wheel hub. The removal of the wheel hub usually leaves the inner bearing race on the wheel hub. It is almost impossible to remove inner bearing races without suitable tools. Makeshift methods using grinders, chisels and welding torches bear high accident risks such as the risk of severe personal injury or damage to the components. The puller set **KL-0042-93 K** allows inner bearing races with **diameters of from 44mm up to 56mm** to be removed from the wheel hub within just a few minutes.

Scope of Delivery: KL-0042-93 K Inner Bearing Race Puller Set

Part No.	Description	Qty
KL-0042-900	Inner Bearing Race Puller, base tool	1
KL-0042-9031	Collet Chuck, Size 3, Ø 44-48mm	1
KL-0042-9041	Collet Chuck, Size 4, Ø 48-52mm	1
KL-0042-9051	Collet Chuck, Size 5, Ø 52-56mm	1
KL-0042-9099	Plastic Storage Case	1

Asseccories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-0177-2

CV Joint Puller

Suitable for VW-Audi, Opel/Vauxhall, Jap. vehicles, etc.

Designed for the quick and easy removal of the outer constant velocity joint by pulling it off the drive shaft. The operation can be performed in situ on the vehicle. (Please note that on some vehicles it is not possible to pull off the constant velocity joint) An essential tool when changing the rubber gaiter or CV joint. Different pull spindles are included in the kit to make the tool almost universal in its range of application.

Advantages:

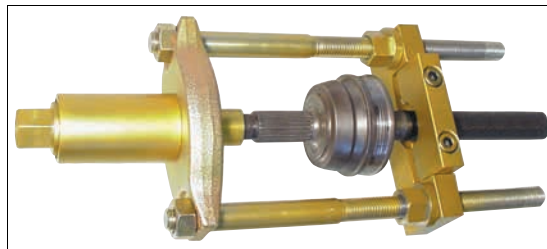
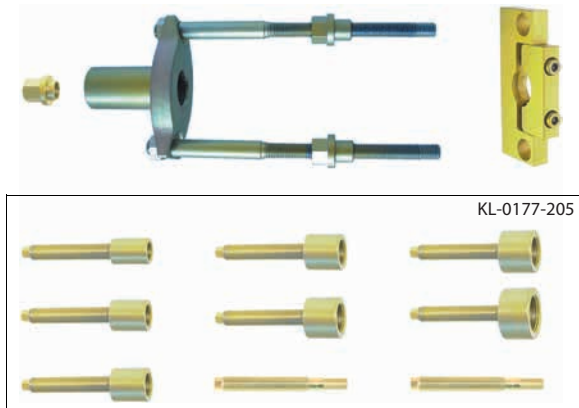
- Substantial time savings.
- Eliminates risk of damage to components caused by hammers, chisels, etc.
- Universal application.

Scope of Delivery: KL-0177-2 CV Joint Puller

Part No.	Description	Qty
KL-0177-201	Press Frame	1
KL-0177-202	Clamping Jaw Set Ø, 19-34mm	1
KL-0177-205	Set of Pull Spindles	1

Scope of Delivery: KL-0177-205 Set of Pull Spindles

Part No.	Description	Qty
KL-0177-2051	Pull Spindle, M16x1.5 (female thread)	1
KL-0177-2052	Pull Spindle, M18x1.5 (female thread)	1
KL-0177-2053	Pull Spindle, M20x1.5 (female thread)	1
KL-0177-2054	Pull Spindle, M22x1.5 (female thread)	1
KL-0177-2055	Pull Spindle, M24x1.5 (female thread)	1
KL-0177-2056	Pull Spindle, M27x1.5 (female thread)	1
KL-0177-2057	Pull Spindle, M30x1.5 (female thread)	1
KL-0177-2061	Pull Spindle, M14x1.5 (male thread)	1
KL-0177-2062	Pull Spindle, M16x1.5 (male thread)	1



KL-0177-3

Drive Shaft Insertion Tool

Suitable for VW-Audi (Touareg etc.) BMW, Mercedes, Opel/Vauxhall, Renault, Peugeot, Porsche (Cayenne etc.)

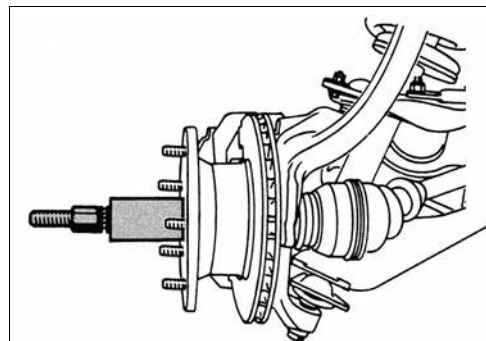
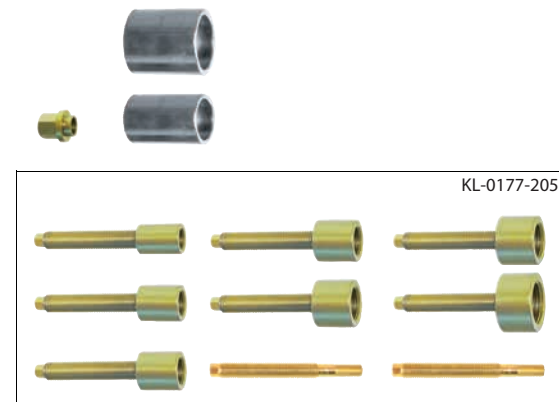
This tool is used for inserting drive shafts into wheel hubs. It is required for those vehicles that feature tight tolerances between the wheel hub and drive shaft splines. The different pull spindles that come with the tool ensure universal application.

Scope of Delivery: KL-0177-3 Drive Shaft Insertion Tool

Part No.	Description	Qty
KL-0177-3001	Housing, external Ø 39mm, internal Ø 29mm	1
KL-0177-3002	Housing, external Ø 46mm, internal Ø 36mm	1
KL-0177-2012	Shoulder Nut	1
KL-0177-205	Set of Pull Spindles	1

Scope of Delivery: KL-0177-205 Set of Pull Spindles

Part No.	Description	Qty
KL-0177-2051	Pull Spindle, M16x1.5 (female thread)	1
KL-0177-2052	Pull Spindle, M18x1.5 (female thread)	1
KL-0177-2053	Pull Spindle, M20x1.5 (female thread)	1
KL-0177-2054	Pull Spindle, M22x1.5 (female thread)	1
KL-0177-2055	Pull Spindle, M24x1.5 (female thread)	1
KL-0177-2056	Pull Spindle, M27x1.5 (female thread)	1
KL-0177-2057	Pull Spindle, M30x1.5 (female thread)	1
KL-0177-2061	Pull Spindle, M14x1.5 (male thread)	1
KL-0177-2062	Pull Spindle, M16x1.5 (male thread)	1





KL-0415-4

Drive Shaft Insertion Tool

with 6 Adaptors, VW-Audi/BMW/Mercedes/Porsche

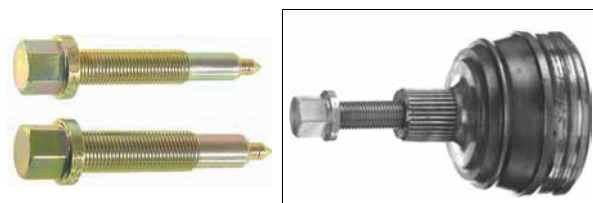
Suitable for VW-Audi (Touareg etc.), BMW (E30, E32, E34, E36 E38, E39, X5, F20 etc.), Mercedes (W203 etc.) and Porsche (Cayenne etc.).

For inserting the drive shaft into the wheel hub; required for vehicles whose drive shaft is firmly fitting in the wheel hub. Also intended for mounting wheel hubs.

Scope of Delivery: KL-0415-4 Drive Shaft Insertion Tool with 6 Adaptors

Part No.	Description	Qty
KL-0415-0006	Adaptor M16x1.5 (e.g. BMW F20)	1
KL-0415-0007	Adaptor M20x1.5 (e.g. Porsche Cayenne, VW-Touareg)	1
KL-0415-0008	Adaptor M24x1.5 (e.g. BMW E36, Mercedes W203)	1
KL-0415-0009	Adaptor M30x1.5 (e.g. BMW E32, E34, E36)	1
KL-0415-0010	Adaptor M22x1.5 (e.g. BMW E30, E46)	1
KL-0415-0011	Adaptor M27x1.5 (e.g. BMW E32, E34, E38, E39, X5)	1
KL-0415-100	Drive Shaft Insertion Tool (base tool)	1

3



KL-0233-1

Pressure Screw Set

Suitable for VW-Audi.

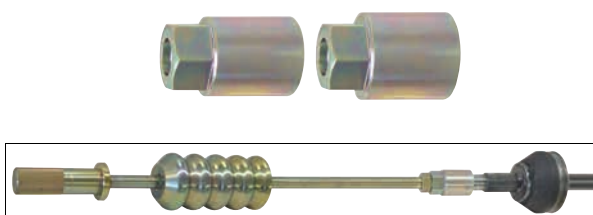
The pressure screw set **KL-0233-1** allows for the quick and easy removal of the outer constant velocity joint from the drive shaft. (Not suitable for sleeve shafts)

Technical Data:

Weight:	595g
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Scope of Delivery: KL-0233-1 Pressure Screw Set

Part No.	Description	Qty
KL-0233-10	Pressure Screw M14x1.5	1
KL-0233-11	Pressure Screw M16x1.5	1



KL-0049-303

Adaptor Set, Fiat Ducato

Designed for Fiat Ducato.

The adaptors **KL-0049-3014** and **KL-0049-3015** are used in conjunction with the slide hammer **KL-0049-31** thus enabling outer cv joints to be separated from the drive shaft without any trouble.

Scope of Delivery: KL-0049-303 Adaptor Set, Fiat Ducato

Part No.	Description	Qty	Size (Waf)	Ø	Length	Connection thread
KL-0049-3014	Adaptor M18 to M28x1.5	1	32mm	40mm	65mm	M18 / M28x1.5
KL-0049-3015	Adaptor M18 to M33x1.5	1	32mm	45mm	65mm	M18 / M33x1.5



KL-0115

Wheel Hub Locking Tool

Covers virtually all passenger cars and light commercial vehicles.

Designed to counter-hold the wheel hub while loosening/tightening the fastening screws/nuts that are found on front/rear drive shafts or wheel bearings.

Technical Data:

Length:	620mm
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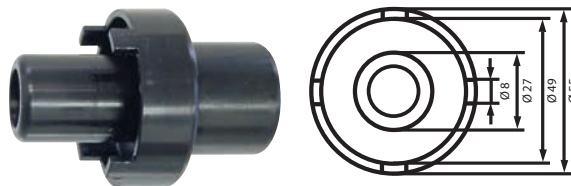
KL-0301

Pin Wrench Socket,
Rear Axle Drive Shaft Flange, Mercedes

Suitable for Mercedes W116, W123, W126 Rear Axle Drive Shaft Flange.

Technical Data:

Drive:	3/4"
Length:	80mm
Weight:	420g



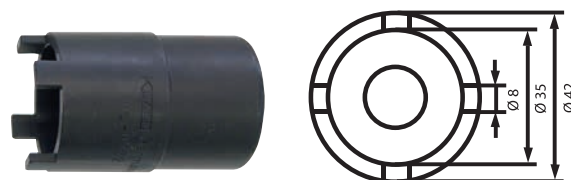
KL-0302

Pin Wrench Socket,
Gearbox Flange, Mercedes

Suitable for Mercedes gearbox flange.

Technical Data:

Drive:	3/4"
Length:	70mm
Weight:	440g



3

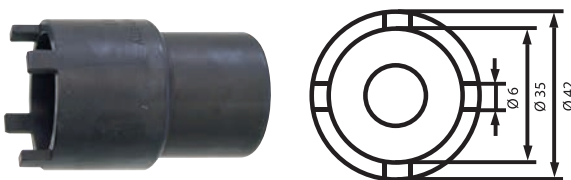
KL-0303

Pin Wrench Socket,
Differential Flange, Mercedes

Suitable for Mercedes differential flange.

Technical Data:

Drive:	3/4"
Length:	70mm
Weight:	370g



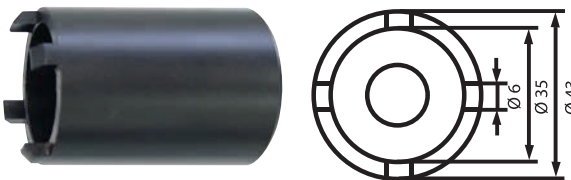
KL-0303-10

Pin Wrench Socket,
35x6mm, Mercedes G-Class

Suitable for use on Mercedes G-Model (W460, W461, W463) front axle wheel bearing.

Technical Data:

Drive:	1/2"
Length:	70mm
Weight:	370g



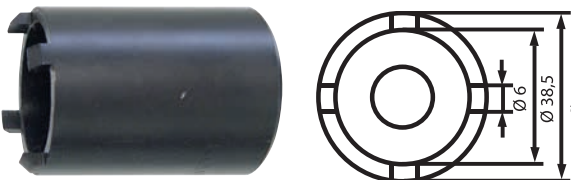
KL-0303-11

Pin Wrench Socket,
38.5x6mm, Mercedes G-Class

Suitable for use on Mercedes G-Model (W460, W461, W463) front axle wheel bearing.

Technical Data:

Drive:	1/2"
Length:	70mm
Weight:	370g





KL-1020-901

Axle Nut Spanner, Mercedes

Applicable to Mercedes Sprinter (W901-W905) rear axle (741.407/741.408/741.409), with grooved nut (902 357 01 26).

For loosening and tightening the wheel bearing lock nut on rear axle shafts or full floating axles. This tool is indispensable when replacing a wheel bearing or performing repairs on the rear axle.

Technical Data:

Size (waf):	58mm
Length:	170mm
Drive:	1/2"



KL-4014-4224

Bi-Hex Socket, 24mm

Applicable to VW Golf (VI, VII), Scirocco, Tiguan, Touran, Passat (3C), Passat CC; Audi A3, TT; Seat Leon, Altea; Škoda Octavia (1Z), Superb (3T) etc.

This socket is needed for the loosening/tightening of lock nuts/screws as found on rear and front axle drive shafts, wheel bearings, as well as on gearbox/differential flanges. The ideal tool to loosen/tighten the drive shaft central fastening screw on VW-Audi, Seat, Škoda vehicles.

Technical Data:

Drive:	3/4"
Length:	90mm
Size (waf):	24mm
Profile:	bi-hex



Technical Data:

Size (waf):	30mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	350g

KL-0304

Special Bi-Hex Socket, waf 30mm

Applicable to: BMW 1 Series (F20), 3 Series (E36, E46, E90); Citroën Saxo, C2; Dacia Sandero; Fiat Seicento; Ford Galaxy; Mercedes A-Class (W168), C-Class (W203), E-Class (W211), SL (W129), W123, W124, W126, W201; Opel/Vauxhall Astra F, Astra G; Renault Scenic, Clio, Kangoo; Toyota Avensis, Picnic and VW Golf (III, IV), Lupo, Touareg, T5 etc.

The special socket is particularly suitable for loosening and tightening fastening nuts; for example, those that are found on rear/front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.



Technical Data:

Size (waf):	32mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	450g

KL-0305

Special Bi-Hex Socket, waf 32mm

Applicable to: Fiat Punto, Seicento; Ford Fiesta, Fusion, Focus, Mondeo; Mercedes C-Class (W204), S-Class (W140); Nissan Almera, Vauxhall/Opel Astra H, Vivaro; Subaru Outback etc.

The special socket is particularly suitable for loosening and tightening the fastening nuts that are found on rear/front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240

Torque Wrench Dremaster 40-200Nm



KL-0307

Special Bi-Hex Socket, waf 34mm

Applicable to: Fiat Marea, Lancia Lybra, Renault etc.

The special socket is particularly suitable for loosening and tightening the mounting nuts that are found on rear or front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.

Technical Data:

Size (waf):	34mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	600g



1/2"

KL-0306

Special Bi-Hex Socket, waf 36mm

Applicable to: Audi A3, A4, A6, TT; BMW 3 Series (E36), 5 Series (E39, E60), X5; Ford Transit; Seat Ibiza, Cordoba; Nissan Primera; Porsche Cayenne; VW Polo, Golf (V), Touareg etc.

The special socket is particularly suitable for loosening and tightening the mounting nuts that are found on rear/front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.

Technical Data:

Size (waf):	36mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	600g



1/2"

KL-0308

Special Hex Socket, waf 35mm

Applicable to: Citroën Berlingo, C4; Peugeot 307, 308, 407, 508, 806 etc.

The special socket is particularly suitable for loosening and tightening the mounting nuts that are found on rear or front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.

Technical Data:

Size (waf):	35mm
Profile:	hex
Drive:	1/2"
Length:	75mm
Weight:	600g



1/2"

KL-0309

Special Bi-Hex Socket, waf 24mm

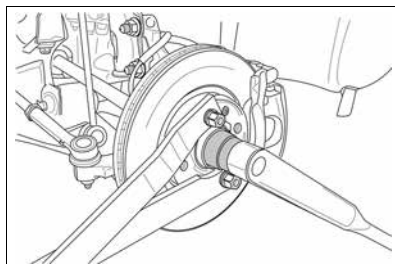
Applicable to: VW: Golf (VI, VII), Scirocco, Tiguan, Touran, Passat (3C), Passat CC; Audi: A3, TT; Seat: Leon, Altea; Škoda: Octavia (1Z), Superb (3T) etc.

The special socket is designed to loosen and tighten the mounting nuts/screws that are found on rear/front axle drive shafts, wheel bearings, as well as on gearbox and differential flanges. Ideal for loosening and tightening the drive shaft central mounting screw on VW-Audi, Seat, Škoda vehicles.

Technical Data:

Size (waf):	24mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm





KL-0310

Special Socket, Size (waf) 36mm

Applicable to: Opel/Vauxhall, Chevrolet, BMW, Seat and VW-Audi.

Particularly useful on: Opel/Vauxhall Corsa D, Adam, Mokka and Chevrolet Trax.

The special socket is particularly suitable for the loosening/tightening of the central fastening nut on the front axle wheel hub.

Thanks to its waf size of 36mm and an external Ø of only 47mm, the special socket is the ideal tool for use in limited space conditions as found at the front axle wheel hub.

Technical Data:

Size (waf):	36mm
Profile:	bi-hex
Drive:	1/2"
Length:	60mm
External Ø:	47mm

3



1/2"

KL-1220-246

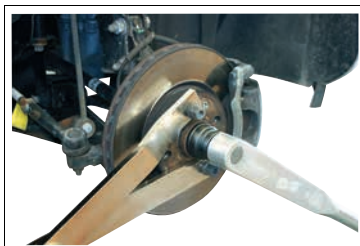
Socket, Size (waf) 46mm, Fiat Ducato/Citroën Jumper/Peugeot Boxer

Designed for: Fiat Ducato, Citroën Jumper and Peugeot Boxer.

For loosening and tightening the drive shaft fastening nut.

Technical Data:

Size (waf):	46mm
Profile:	bi-hex
Drive:	1/2"
Length:	100mm



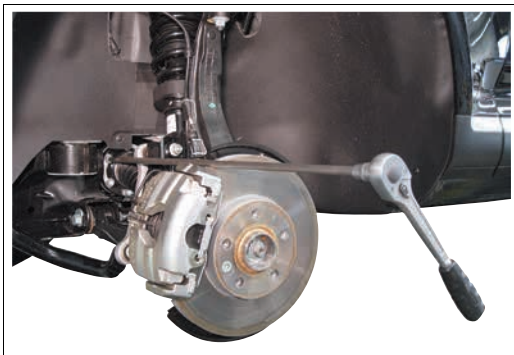
KL-1340-301

Socket, Size (waf) 36mm, Citroën / Peugeot / Opel/Vauxhall

Universal application. Indispensable for: Citroën Jumpy; Peugeot 806 / Expert and Opel/Vauxhall Corsa D etc.

For loosening and controlled tightening of drive shaft fastening nuts.

The **KL-1340-301** socket features angle datum marks of 0°, 5° and 60°, enabling accurate tightening of drive shaft fastening nuts according to manufacturer's specifications, without the use of an additional degree gauge.



KL-0232-1

Multi-Spline Socket, XZN M8, 800mm

Applicable to: VW-Audi, etc.

The special socket enables the drive shaft fixing screws to be loosened from the differential flange quickly and easily from the outside.

Not intended for use with impact wrenches.

Advantages

- Substantial time savings.

Technical Data:

Size (waf):	XZN M8
Drive:	1/2"
Length:	800mm

KL-0232-2

Multi-Spline Socket, XZN M10, 800mm

Applicable to VW Golf IV etc.

The special socket enables the drive shaft fixing screws to be loosened from the differential flange quickly and easily from the outside.

Not intended for use with impact wrenches.

Advantage: Substantial time savings.

Technical Data:

Size (waf):	XZN M10
Drive:	1/2"
Length:	800mm



KL-0232-3

Multi-Spline Socket, XZN M12, 800mm

Applicable to VW T4, Touareg etc.

The special socket enables the drive shaft fixing screws to be loosened from the differential flange quickly and easily from the outside.

Not intended for use with impact wrenches.

Advantage: Substantial time savings.

Technical Data:

Size (waf):	XZN M12
Drive:	1/2"
Length:	800mm



KL-0232-4

Multi-Spline Socket, XZN M14, 800mm

Applicable to VW T4, Touareg etc.

The special socket enables the drive shaft fixing screws to be loosened from the differential flange quickly and easily from the outside.

Not intended for use with impact wrenches.

Advantage: Substantial time savings.

Technical Data:

Size (waf):	XZN M14
Length:	800mm
Drive:	1/2"



KL-0232-8

Flexible Multi-Spline Bit Socket, XZN M10

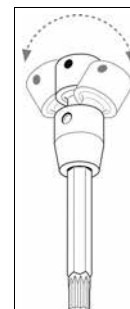
Applicable to VW-Audi, for example VW Golf IV, Passat 3C etc.

For the quick and easy removal and installation of drive shafts. The special design of the socket allows you to easily access the fastening screws that are sometimes difficult to reach. The tool is not designed for use with an impact wrench.

Advantage: Substantial time savings.

Technical Data:

Size (waf):	XZN M10
Drive:	3/8"
Length:	128mm



Accessories (on demand):

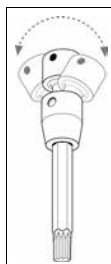
1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240

Torque Wrench Dremaster 40-200Nm





KL-4031-351 K Screwdriver Bit Socket Kit

Universal application. The ideal kit for VW-Audi, Seat, Škoda vehicles, e.g. Audi A3 (8P), VW Polo (6N), Golf IV (1J), Golf V (1K), Passat (3C), Touran (1T), T4; T5, Seat Altea (5P) etc.

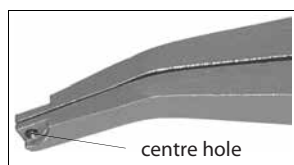
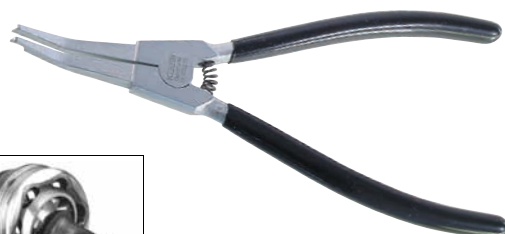
For loosening and tightening XZN fastening screws as found on brake calipers, wheel bearings, wheel hub bearing units, suspension ball joints, drive shafts. Also suitable for shock absorber mount clamping screws on steering knuckles etc.

Scope of Delivery:

KL-4031-351 K Screwdriver Bit Socket Kit

Part No.	Description	Qty
KL-4031-3512	Screwdriver Bit Socket, XZN-M12, 78mm, 1/2"	1
KL-4031-3514	Screwdriver Bit Socket, XZN-M14, 78mm, 1/2"	1
KL-4031-3518	Screwdriver Bit Socket, XZN-M18, 78mm, 1/2"	1
KL-0232-8	Flexible Multi-Tooth Socket, XZN M10	1
KL-4031-3590	Plastic Storage Case	1

3



KL-0192-12 Circlip Pliers (angled)

Suitable for use on VW-Audi, Mercedes, Opel/Vauxhall, BMW, Ford, etc.

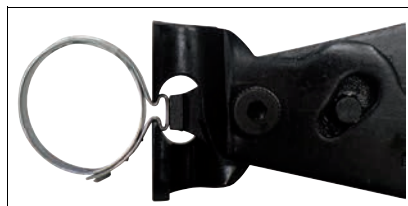
Field of Application:

Specially designed for deep-seated, large clips on gear shafts and articulated axles that are hard to access.

Ideal for use on drive shafts/cv joints, engines and gearboxes.

Technical Data:

Length:	200mm
Tip form:	30° angled, centring spigot, long, slim
Min. opening:	3mm
Max. opening:	35mm
Weight:	190g



KL-0121-90 Hose Clamp Pliers

Intended for use on Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW, etc.

For the tightening of ear clamps (Oetiker System) on axle boots, radiator and fuel hoses.

Advantages:

- No damage to the ear clamps.
- No damage to the hoses.
- Thanks to the special design of the tool, the clamp head is being flattened while tightening the clamp. An important feature for applications where space is at a premium.

Technical Data:

Length:	240mm
Weight:	492g

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet

DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm



KL-0121-93

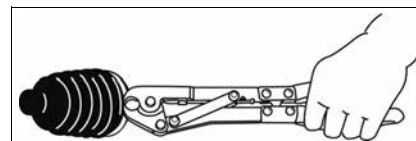
Hose Clamp Pliers

Suitable for use on Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW etc.

Efficient transmission of force and 2 working stages. For the tightening of ear clamps (Oetiker System) on axle boots, radiator and fuel hoses.

Technical Data:

Length:	280mm
Weight:	475g



KL-0121-99

Hose Clamp Pliers

Suitable for use on Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW etc.

For the tightening of ear clamps (Oetiker System) on axle boots, radiator and fuel hoses.

Technical Data:

Length:	280mm
Weight:	475g



KL-0121-81

Hose Clamp Pliers

Universal application. Ideal for VW-Audi etc.

Works on „earless“ hose clamps that are found on axle boots, radiator and fuel hoses.

Technical Data:

Length:	230mm
Weight:	340g



KL-0121-97

Hose Clamp Pliers for CLIC Hose Clamps

Suitable for use on Citroën, Peugeot etc.

This tool is designed to open and close the re-usable hose clamp Type CLIC (Caillau/Serflex).

Due to the special design of its clamping jaws, this tool enables even hose clamps that are difficult to reach, to be opened and closed with ease.



KL-0121-96 A

Hose Clamp Pliers (for use with a Torque Drive)

Suitable for use on VW-Audi, Ford, Opel/Vauxhall etc.

This tool is designed to tighten stainless steel clamps on cv-boots to specified tightening torques.

A 3/8" torque wrench, for example **Gedore - 4549-05**, is required as a drive.

Spare Part: KL-0121-9601 A Jaws (spare pair)



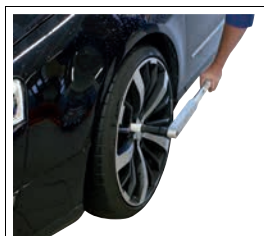
Technical Data:

Length:	260mm
Weight:	490g
Drive:	3/8"



Accessories:

KL-0100-5715-S Plastic Sleeve for 15mm waf
KL-0100-5717-S Plastic Sleeve for 17mm waf
KL-0100-5719-S Plastic Sleeve for 19mm waf
KL-0100-5721-S Plastic Sleeve for 21mm waf
KL-0100-5722-S Plastic Sleeve for 22mm waf



Technical Data:

Size (waf):	15mm, 17mm, 19mm, 21mm, 22mm
Length:	150mm
Drive:	1/2"
Weight:	2.11kg

KL-0100-57 K

Set of Impact Hex Sockets

with Plastic Sleeve, Sizes (waf) 15 / 17 / 19 / 21 / 22mm

Universal application.

Long and slim design with protective plastic sleeve.

For loosening and tightening wheel bolts on light-alloy wheel rims.

Scope of Delivery: KL-0100-57 K Set of Impact Hex Sockets with Plastic Sleeve

Part No.	Description	Qty
KL-0100-5715	Impact Hex Socket with Plastic Sleeve, Size (waf) 15mm, 150mm long	1
KL-0100-5717	Impact Hex Socket with Plastic Sleeve, Size (waf) 17mm, 150mm long	1
KL-0100-5719	Impact Hex Socket with Plastic Sleeve, Size (waf) 19mm, 150mm long	1
KL-0100-5721	Impact Hex Socket with Plastic Sleeve, Size (waf) 21mm, 150mm long	1
KL-0100-5722	Impact Hex Socket with Plastic Sleeve, Size (waf) 22mm, 150mm long	1
KL-0100-5790	Plastic Storage Case	1



1/2"

KL-0100-5622

Impact Hexagon Socket (waf 22mm)

with Protective Sleeve, Opel/Vauxhall

Applicable to Opel/Vauxhall Insignia etc.

Ideal for loosening and tightening wheel bolts on light-alloy wheels rims.

Technical Data:

Size:	22mm
Length:	82mm
Drive:	1/2"
Weight:	300g

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240

Torque Wrench Dremaster 40-200Nm



1/2"

KL-0100-5610

Special Impact Socket

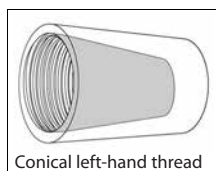
with Protective Sleeve, Mercedes

Applicable to Mercedes C-Class/GLK (W204), E-Class (W211, W212, W207), SLK (W172), M-Class (W164, W166), CL-Class (W216), S-Class (W221, W222) and Maybach.

Specially designed to loosen and tighten the new special wheel bolts found on Mercedes vehicles. Approved for use with an impact wrench.

Technical Data:

Dimension (waf):	17mm
Length:	88mm
Drive:	1/2"
Weight:	257g



Conical left-hand thread



KL-0101-22 K

Set of Special Sockets

Suitable for use on lug bolts and nuts with size (waf) 17-26mm.

Designed for loosening lug bolts/lug nuts. Very useful sockets if the original special socket is not available. The set also includes sockets to undo hexagonal lug bolts/lug nuts or other hex bolts and nuts whose hexagon has been damaged („rounded“ head).

The sockets are specially designed (conical, and with a left-hand thread) to unscrew and remove bolts and nuts with ease.

Scope of Delivery: KL-0101-22 K Set of Special Sockets

Part No.	Description	Ø
KL-0101-2201	Special Socket	17mm
KL-0101-2202	Special Socket	18.5mm
KL-0101-2203	Special Socket	20mm
KL-0101-2204	Special Socket	21.5mm
KL-0101-2205	Special Socket	23mm
KL-0101-2206	Special Socket	24.5mm
KL-0101-2207	Special Socket	26mm
KL-0101-2290	Plastic Storage Case	



Technical Data:

Drive:	1/2"
Length:	40mm

KL-0100-Series Torque-Limiting Sockets

These AccuTorq Torque-Limiting Sockets are designed for use with an impact wrench. They work by absorbing excess torque generated by the impact wrench between the 1/2" drive and the hexagon end into the torsion bar, once the correct torque has been reached.

The sockets were calibrated at the time of manufacture. Thus, there is no need for additional adjustments. Thanks to the high quality of the tools, only worn impact wrench anvils or wheel bolts may cause premature wear and tear resulting in a limited lifetime of the sockets.

The AccuTorq Torque-Limiting Sockets ensure that no torque greater than the torque value indicated on the sockets will be transmitted. Therefore, the only accuracy test that needs to be performed is to check that there is enough force available to allow the socket to achieve the correct value for the respective application.

Special Features:

- The sockets combine impact-wrench speed with torque-wrench accuracy.
- Fit all 1/2" impact wrenches with min. 220 Nm. (1" impact wrenches for HGV with min. 1,400Nm).
- No need for recalibration.
- For quick reference, colour-coded torque-limiting sockets for passenger car applications. (Torque-limiting sockets for heavy-duty applications are in black.)



1/2"



Technical Data:

Part No.	Size (waf)	Starting torque	Applications	Color
KL-0100-10	17mm	75Nm	Renault, Škoda and Suzuki.	green
KL-0100-11	17mm	95Nm	Opel/Vauxhall and Renault.	beige
KL-0100-12	17mm	110Nm	Audi, BMW, Mercedes, Opel/Vauxhall, Porsche and VW.	red
KL-0100-13	19mm	75Nm	Alfa Romeo, Citroën, Fiat, Honda, Hyundai, Peugeot, Renault and Rover.	dark blue
KL-0100-14	19mm	90Nm	Alfa Romeo, Citroën, Fiat, Ford, Lada, Opel/Vauxhall, Peugeot, Renault, Rover and Volvo.	yellow
KL-0100-15	19mm	110Nm	Alfa Romeo, Fiat, Ford, Honda, Hyundai, Isuzu, Kia, Mercedes, Rover, Saab and Volvo.	light blue
KL-0100-16	19mm	135Nm	Ford and Porsche.	gray
KL-0100-17	21mm	80Nm	Mitsubishi and Rover.	black
KL-0100-18	21mm	110Nm	Daihatsu, Ford, Mazda, Mitsubishi, Nissan and Toyota.	light brown
KL-0100-19	21mm	95Nm	Ford.	pink
KL-0100-20	17mm	120Nm	Audi A4, A6, A8 and Škoda Oktavia.	cream
KL-0100-21	17mm	150Nm	Mercedes S-Class.	lemon yellow
KL-0100-22	19mm	100Nm	Fiat Ulysse and Multipla.	yellow-green
KL-0100-23	19mm	150Nm	Mercedes M-Class.	purple
KL-0100-24	22mm	80Nm	Jaguar XJS-Series, X300 & XK8 (steel rims only).	dark green
KL-0100-25	22mm	100Nm	Jaguar XJS-Serie, X300 und XK8 (Aluminium rims only).	orange

KL-0100-1000 Rack for 5 Torque-Limiting Sockets



1/2"



KL-4031-3518

Screwdriver Bit Socket XZN-M18, 78mm, drive 1/2"

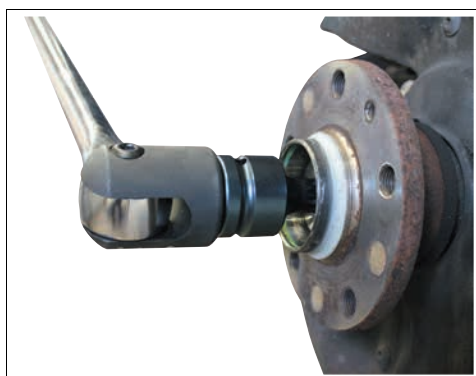
Suitable e.g. for Audi A3, VW Polo, Golf V etc.

This tool is designed to loosen and tighten rear axle wheel hub bearing unit fastening screws.

Technical Data:

Drive:	1/2"
Size:	XZN-M18
Length:	78mm

3



KL-4031-4118

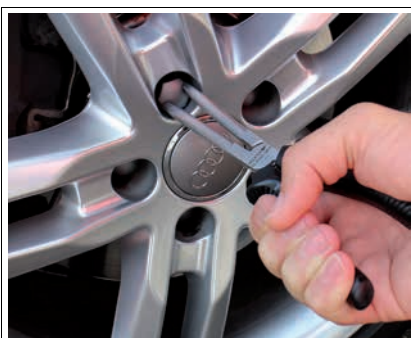
Screwdriver Bit Socket, XZN-M18, 3/4"

Suitable for the wheel bearing central screws found at the rear axle on VW Golf V, Audi A3, Seat Altea etc.

The **KL-4031-4118** Screwdriver Bit Socket (XZN-M18, 3/4") is used with a 3/4" breaker bar such as the **KL-4007-411** for the loosening, and in conjunction with a 3/4" torque wrench for the tightening, of the wheel bearing central screw at the rear axle.

Technical Data:

Drive:	3/4"
Size (waf):	XZN-M18
Maximum load capacity:	800Nm



KL-0193-10 A

Pliers for Protection Cap

Suitable for use on VW-Audi, Opel/Vauxhall, etc.

Intended for the safe and damage-free removal of plastic protection caps from wheel bolts.

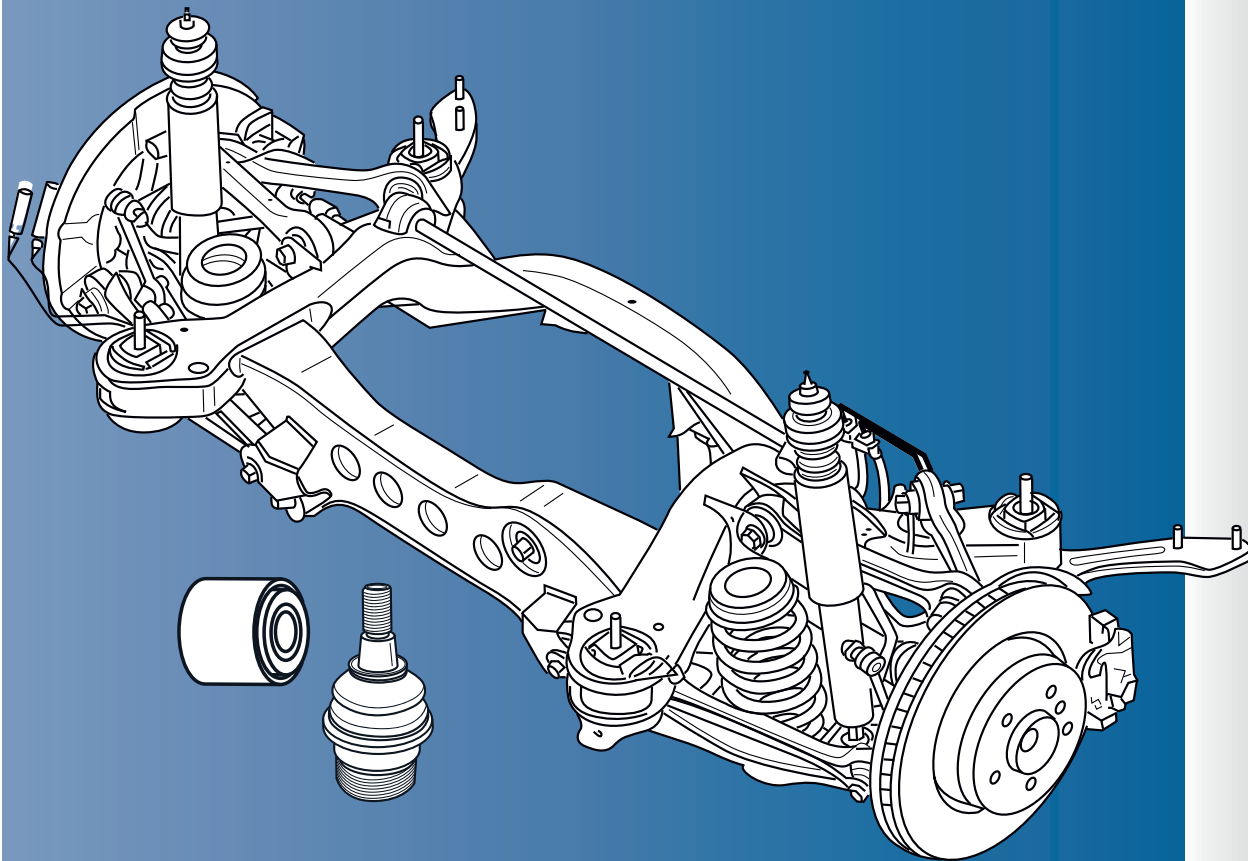
Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm





Silentblocs and Bushings

The GEDORE Automotive Silentbloc Tool KL-0039-Series

The big advantages of the unrivalled KL-0039-.. Tool Series are:

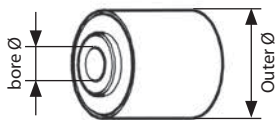
- ☑ Modular system with universally combinable pressure- / support sleeves.
- ☑ Possibility to complement the tool set universally with additional pressure- / support sleeves. Two possible drives (mechanical or hydraulic). Optional use of centring- / pressure rings and press frames.

Silentbloc removal / installation using a pull spindle

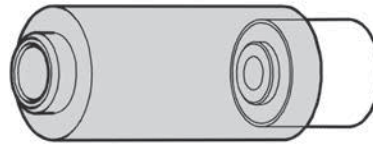
Identification of the necessary parts and assembling the tool:

- ⇒ Measuring the \varnothing of the silentbloc and retaining bore.
- ⇒ Determination of spindle, pressure and support sleeve.

Measure bore \varnothing and silentbloc outer \varnothing

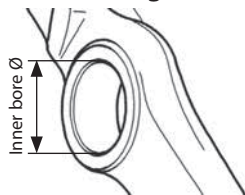


Identify support sleeve (with dimension silentbloc outer \varnothing)

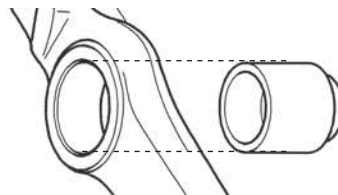


Support sleeve inner $\varnothing \rightarrow$ greater than \rightarrow silentbloc outer \varnothing

Measure inner bore \varnothing of retaining bore.

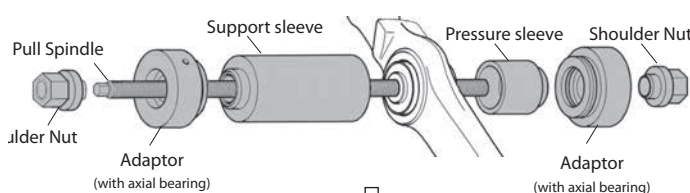


Identify pressure sleeve (with dimension bore inner \varnothing)

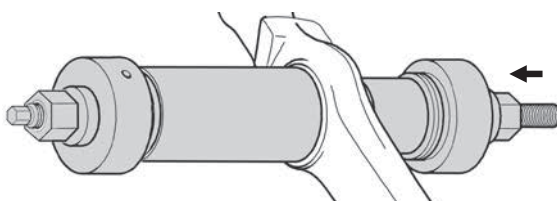


Pressure sleeve outer $\varnothing \rightarrow$ greater than \rightarrow bore inner \varnothing

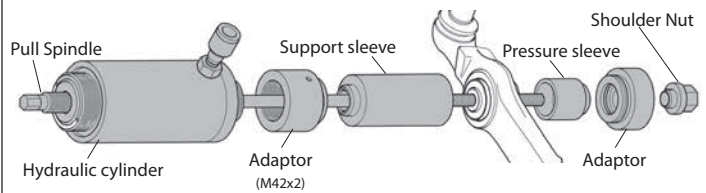
Mounting the silentbloc tool (mechanical drive)



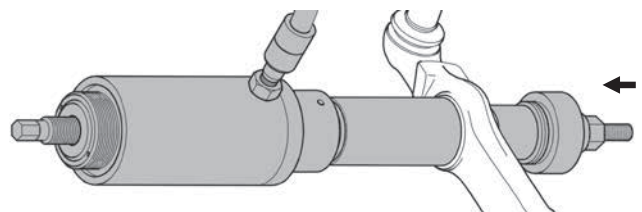
Extracting the silentbloc (mechanically) [Insertion follows the same principle]



Mounting the silentbloc tool (hydraulic drive)



Extracting the silentbloc (hydraulically) [Insertion follows the same principle]



The GEDORE Automotive Silenbloc Tool KL-0039-Series

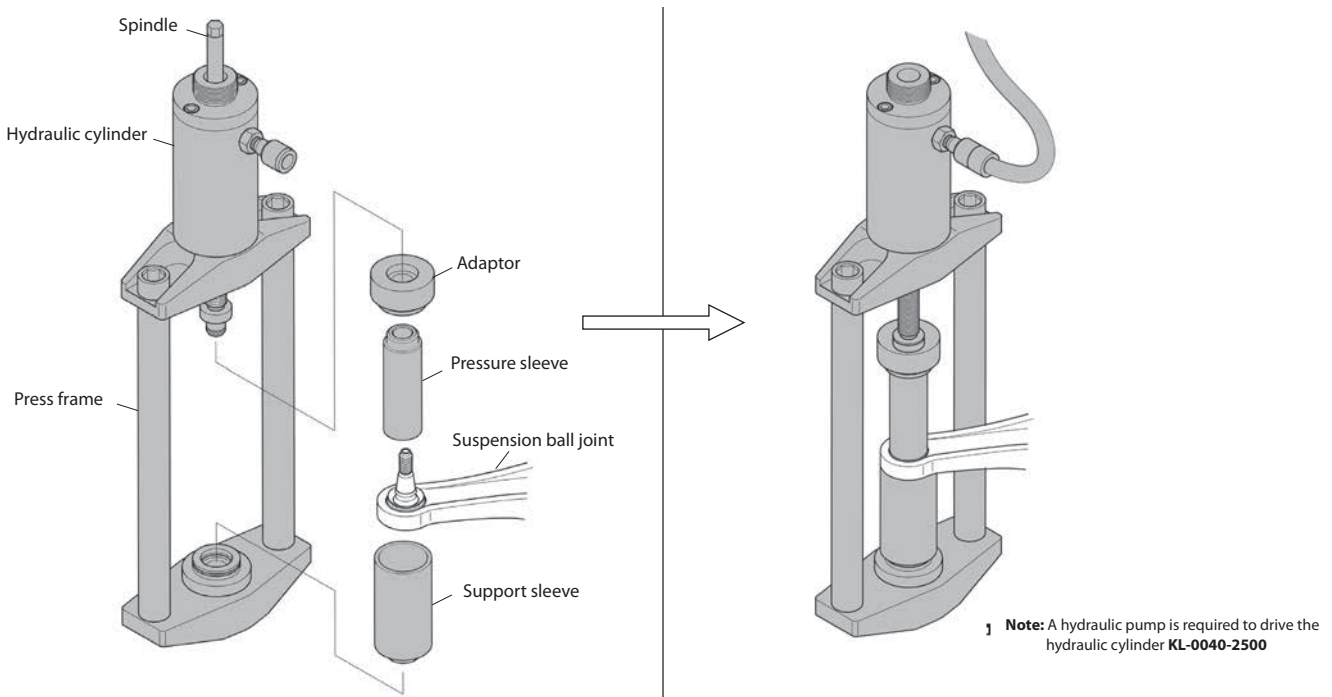
The big advantages of the unrivalled KL-0039-.. Tool Series are:

- ☑ Universal range of applications..
- ☑ Substantial time and cost savings as the required tool can easily and universally be assembled as needed.

Silentbloc/Suspension Ball Joint removal/installation using a press frame

Identification of the necessary parts and assembling the tool:

⇒ Mounting the tool and pressing out the silentbloc / suspension ball joint. (Installation follows the same principle)

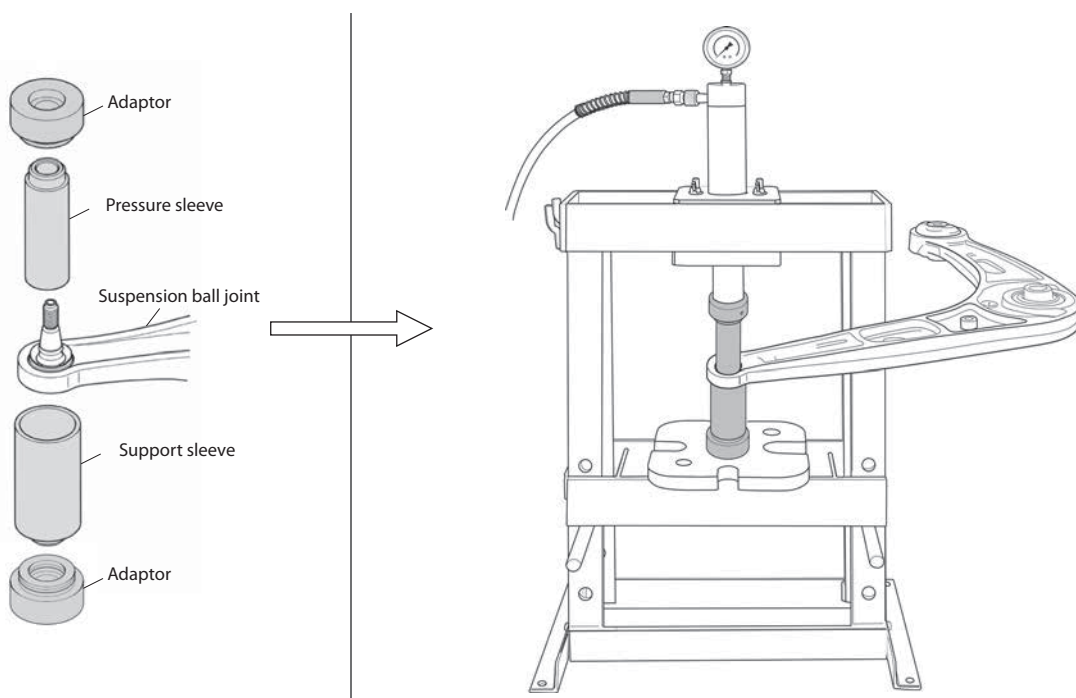


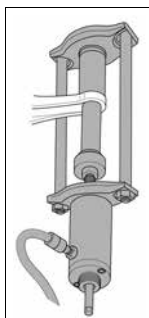
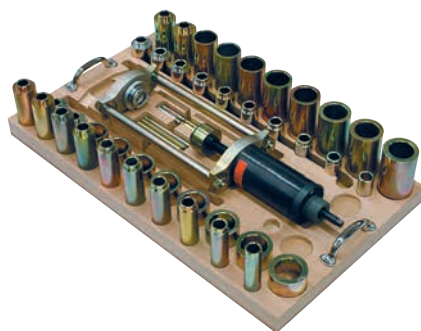
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Silentbloc/Suspension Ball Joint removal/installation using a bench press

Identification of the necessary parts and assembling the tool:

⇒ Mounting the tool and pressing out the silentbloc / suspension ball joint. (Installation follows the same principle)





Technical Data:

Inner length (press frame):	275mm
Inner width (press frame):	115mm
Max. load capacity of press frame:	12t
Max. load capacity hydraulic cylinder:	17t

Scope of Delivery:

KL-0039-1601 Pressure/Support Sleeve Set (Short Design)

Part No.	Description	Qty
KL-0039-1610	Guide Pin (short), 10mm	1
KL-0039-1612	Guide Pin (short), 12mm	1
KL-0039-1614	Guide Pin (short), 14mm	1
KL-0039-1616	Guide Pin (short), 16mm	1
KL-0039-1630	Pressure/Support Sleeve (short), Ø A: 30mm, Ø B: 22mm	1
KL-0039-1632	Pressure/Support Sleeve (short), Ø A: 32mm, Ø B: 24mm	1
KL-0039-1634	Pressure/Support Sleeve (short), Ø A: 34mm, Ø B: 26mm	1
KL-0039-1636	Pressure/Support Sleeve (short), Ø A: 36mm, Ø B: 28mm	1
KL-0039-1638	Pressure/Support Sleeve (short), Ø A: 38mm, Ø B: 30mm	1
KL-0039-1640	Pressure/Support Sleeve (short), Ø A: 40mm, Ø B: 32mm	1
KL-0039-1642	Pressure/Support Sleeve (short), Ø A: 42mm, Ø B: 34mm	1
KL-0039-1644	Pressure/Support Sleeve (short), Ø A: 44mm, Ø B: 36mm	1
KL-0039-1646	Pressure/Support Sleeve (short), Ø A: 46mm, Ø B: 38mm	1
KL-0039-1648	Pressure/Support Sleeve (short), Ø A: 48mm, Ø B: 40mm	1
KL-0039-1650	Pressure/Support Sleeve (short), Ø A: 50mm, Ø B: 42mm	1
KL-0039-1652	Pressure/Support Sleeve (short), Ø A: 52mm, Ø B: 44mm	1
KL-0039-1654	Pressure/Support Sleeve (short), Ø A: 54mm, Ø B: 46mm	1
KL-0039-1656	Pressure/Support Sleeve (short), Ø A: 56mm, Ø B: 48mm	1
KL-0039-1658	Pressure/Support Sleeve (short), Ø A: 58mm, Ø B: 50mm	1
KL-0039-1660	Pressure/Support Sleeve (short), Ø A: 60mm, Ø B: 52mm	1
KL-0039-1662	Pressure/Support Sleeve (short), Ø A: 62mm, Ø B: 54mm	1
KL-0039-1664	Pressure/Support Sleeve (short), Ø A: 64mm, Ø B: 56mm	1
KL-0039-1666	Pressure/Support Sleeve (short), Ø A: 66mm, Ø B: 58mm	1
KL-0039-1668	Pressure/Support Sleeve (short), Ø A: 68mm, Ø B: 60mm	1

KL-0039-930 H

Press Tool Set (short), with Hydr. Cyl. (17t)

Universally suitable for silentblocs, lower and upper suspension ball joints, etc.

The press tool set **KL-0039-930 H** allows the quick, professional and safe removal and installation of silentblocs, suspension ball joints, etc. with Ø of 30-59mm, to be performed in situ on the vehicle without the need for dismantling the axle or the wishbone. The 17t hydraulic cylinder that comes with the set ensures professional and trouble-free removal of silentblocs and joint bushes.

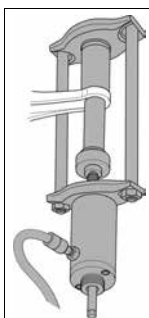
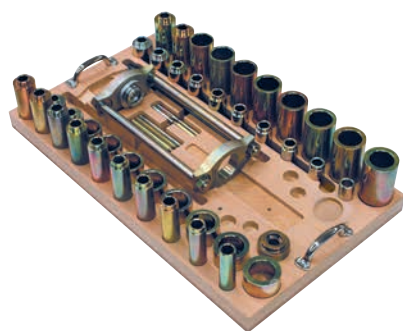
The tool set can easily be upgraded with other parts of the **KL-0039-.. Series** such as pull spindles and adaptors, thus allowing for a wide range of applications.

Scope of Delivery: KL-0039-930 H Press Tool Set (short), with 17t Hydr. Cyl.

Part No.	Description	Qty
KL-0039-1140	Press Frame (Lightweight, Short Design)	1
KL-0040-2500	Hydraulic Cylinder (17t)	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1601	Pressure/Support Sleeve Set (Short Design)	1
KL-0039-1701	Pressure/Support Sleeve Set (Long Design)	1
KL-0039-9000	Wooden Storage Plate (without Tools)	1

Scope of Delivery: KL-0039-1701 Pressure-/Support Sleeve Set (Long Design)

Part No.	Description	Qty
KL-0039-1710	Guide Pin (long), 10mm	1
KL-0039-1712	Guide Pin (long), 12mm	1
KL-0039-1714	Guide Pin (long), 14mm	1
KL-0039-1716	Guide Pin (long), 16mm	1
KL-0039-1730	Pressure/Support Sleeve (long), Ø A: 30mm, Ø B: 22mm	1
KL-0039-1732	Pressure/Support Sleeve (long), Ø A: 32mm, Ø B: 24mm	1
KL-0039-1734	Pressure/Support Sleeve (long), Ø A: 34mm, Ø B: 26mm	1
KL-0039-1736	Pressure/Support Sleeve (long), Ø A: 36mm, Ø B: 28mm	1
KL-0039-1738	Pressure/Support Sleeve (long), Ø A: 38mm, Ø B: 30mm	1
KL-0039-1740	Pressure/Support Sleeve (long), Ø A: 40mm, Ø B: 32mm	1
KL-0039-1742	Pressure/Support Sleeve (long), Ø A: 42mm, Ø B: 34mm	1
KL-0039-1744	Pressure/Support Sleeve (long), Ø A: 44mm, Ø B: 36mm	1
KL-0039-1746	Pressure/Support Sleeve (long), Ø A: 46mm, Ø B: 38mm	1
KL-0039-1748	Pressure/Support Sleeve (long), Ø A: 48mm, Ø B: 40mm	1
KL-0039-1750	Pressure/Support Sleeve (long), Ø A: 50mm, Ø B: 42mm	1
KL-0039-1752	Pressure/Support Sleeve (long), Ø A: 52mm, Ø B: 44mm	1
KL-0039-1754	Pressure/Support Sleeve (long), Ø A: 54mm, Ø B: 46mm	1
KL-0039-1756	Pressure/Support Sleeve (long), Ø A: 56mm, Ø B: 48mm	1
KL-0039-1758	Pressure/Support Sleeve (long), Ø A: 58mm, Ø B: 50mm	1
KL-0039-1760	Pressure/Support Sleeve (long), Ø A: 60mm, Ø B: 52mm	1
KL-0039-1762	Pressure/Support Sleeve (long), Ø A: 62mm, Ø B: 54mm	1
KL-0039-1764	Pressure/Support Sleeve (long), Ø A: 64mm, Ø B: 56mm	1
KL-0039-1766	Pressure/Support Sleeve (long), Ø A: 66mm, Ø B: 58mm	1
KL-0039-1768	Pressure/Support Sleeve (long), Ø A: 68mm, Ø B: 60mm	1



Technical Data:

Inner length (press frame):	275mm
Inner width (press frame):	115mm
Max. load capacity of press frame:	12t

KL-0039-931 H

Press Tool Set (Short Design), without Drive

Universally suitable for silentblocs, upper and lower ball joints etc.

The press tool set **KL-0039-931 H** allows the quick, professional and safe removal and installation of silentblocs, suspension ball joints, etc. with Ø of 30-59mm to be performed in situ on the vehicle without the need for dismantling the axle or the wishbone.

Used in conjunction with a hydraulic drive, the tools ensure professional and trouble-free removal of silentblocs and joint bushes.

The tool set can easily be upgraded with other parts of the **KL-0039-.. Series** such as a mechanical drive with pull spindle, thus allowing for a wide range of applications.

Scope of Delivery: KL-0039-931 H Press Tool Set (Short Design), without Drive

Part No.	Description	Qty
KL-0039-1140	Press Frame (Lightweight, Short Design)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1
KL-0039-1601	Pressure/Support Sleeve Set (Short Design)	1
KL-0039-1701	Pressure/Support Sleeve Set (Long Design)	1
KL-0039-9000	Wooden Storage Plate (without Tools)	1

KL-0039-413 K

Pulling Device for Silentbloc (Mechanical Drive)

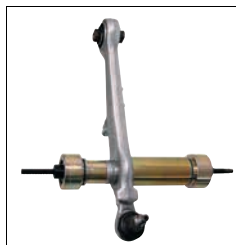
Universally suitable for silentblocs/joint bushes with Ø of 30-73mm.

The **KL-0039-413 K** pulling device allows for the quick, safe and professional removal and replacement of silentblocs and joint bushes. The mechanical drive included in the set is designed for the extraction of silentblocs and joint bushes having an internal bore Ø not smaller than 10mm. Thanks to the possibility to easily upgrade the tool set with other parts of the **KL-0039-.. Series** such as centring and pressure rings or pressure/support sleeves, the pulling device covers a wide field of applications; for example, it allows the user to change wheel bearings as well.

A 10t or 17t hydraulic drive from GEDORE AUTOMOTIVE (available as accessories) can be used if silentblocs are very tight-fitting, stuck, or heavily rusted in place. The additional use of a press frame enables additionally the removal and installation of suspension ball joints etc.

Note:

The pulling device **KL-0039-413 K** can also be operated hydraulically. For this purpose, it needs to be used in conjunction with the hydraulic drive **KL-0039-809 A** or **KL-0039-803 A**, hydraulic cylinder **KL-0040-2500** and a hydraulic pump such as **KL-0215-35 M25**. This will be necessary when removing and installing bushings and suspension ball joints for example.



Accessories (on demand):

1 B - Combination Spanner UD-Profil



Scope of Delivery: KL-0039-413 K Pulling Device for Silentbloc (Mechanical Drive)

Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor for Clamping Nut M20, with O-Ring	1
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1
KL-0039-1910-2	Shoulder Nut, M10x1.25	2
KL-0039-1912-2	Shoulder Nut, M12	2
KL-0039-1914-2	Shoulder Nut, M14	2
KL-0039-1916-2	Shoulder Nut, M16	2
KL-0039-2010-1	Pull Spindle, M10x1.25	1
KL-0039-2012-1	Pull Spindle, M12	1
KL-0039-2014-1	Pull Spindle, M14	1
KL-0039-2016-1	Pull Spindle, M16	1
KL-0039-1630	Pressure/Support Sleeve (short), Ø 30/22mm	1
KL-0039-1640	Pressure/Support Sleeve (short), Ø 40/32mm	1
KL-0039-1646	Pressure/Support Sleeve (short), Ø 46/38mm	1
KL-0039-1650	Pressure/Support Sleeve (short), Ø 50/42mm	1
KL-0039-1654	Pressure/Support Sleeve (short), Ø 54/46mm	1
KL-0039-1658	Pressure/Support Sleeve (short), Ø 58/50mm	1

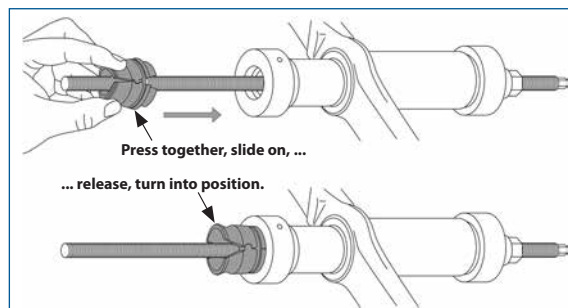
Part No.	Description	Qty
KL-0039-1664	Pressure/Support Sleeve (short), Ø 64/56mm	1
KL-0039-1666	Pressure/Support Sleeve (short), Ø 66/58mm	1
KL-0039-1670	Pressure/Support Sleeve (short), Ø 70/62mm	1
KL-0039-1672	Pressure/Support Sleeve (short), Ø 72/64mm	1
KL-0039-1744	Pressure/Support Sleeve (long), Ø 44/36mm	1
KL-0039-1750	Pressure/Support Sleeve (long), Ø 50/42mm	1
KL-0039-1756	Pressure/Support Sleeve (long), Ø 56/48mm	1
KL-0039-1762	Pressure/Support Sleeve (long), Ø 62/54mm	1
KL-0039-1766	Pressure/Support Sleeve (long), Ø 66/58mm	1
KL-0039-1770	Pressure/Support Sleeve (long), Ø 70/62mm	1
KL-0039-1774	Pressure/Support Sleeve (long), Ø 74/66mm	1
KL-0039-1778	Pressure/Support Sleeve (long), Ø 78/70mm	1
KL-0039-1782	Pressure/Support Sleeve (long), Ø 82/74mm	1
KL-0039-1784	Pressure/Support Sleeve (long), Ø 84/76mm	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-0039-4139	Plastic Storage Case	1

KL-0039-23 - Set of Quick-Action Clamping Nuts (5-pc.)

Universally suitable for the tools of the KL-0039-..Wheel Bearing/Silenbloc Tool..Series with pull spindles having either an M10x1.25, M12, M14, M16 or M20 retaining thread.

Thanks to their special design, the quick-action clamping nuts can be adjusted simply by sliding them on the pull spindle without any rotational movement.

This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.



For scope of delivery, please see page 145.

KL-0039-22 - Set of Quick-Action Clamping Nuts (4-pc.). Like KL-0039-23, but without Quick-Action Clamping Nut M16.



KL-0039-160 E

KL-0039-160 K

Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Plastic Storage Case

Indispensable tool set for pressing in and pressing out silentblocs, shafts, bushings etc. The sleeves are used in conjunction with the tools of the **KL-0039-... Series**.

Scope of Delivery: KL-0039-160 K Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Plastic Storage Case

Part No.	Description	Qty
KL-0039-160 E	Pressure/Support Sleeve Set, Ø 30-90mm (short) 45mm	1
KL-4999-1391	Plastic Storage Case	1

Scope of Delivery: KL-0039-160 E Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Foam Insert

Part No.	Description	Qty
KL-0039-160	Press-/Support Sleeve Set, Ø 30-90mm (short), 45mm	1
KL-4999-1312	Foam Insert	1

Scope of Delivery:

KL-0039-160 Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm

Part No.	Description	Qty	Part No.	Description	Qty	Part No.	Description	Qty
KL-0039-1630	Pressure-/Support Sleeve, short, Ø30/22mm	1	KL-0039-1652	Pressure-/Support Sleeve, short, Ø52/44mm	1	KL-0039-1672	Pressure-/Support Sleeve, short, Ø72/64mm	1
KL-0039-1632	Pressure-/Support Sleeve, short, Ø32/24mm	1	KL-0039-1654	Pressure-/Support Sleeve, short, Ø54/46mm	1	KL-0039-1674	Pressure-/Support Sleeve, short, Ø74/66mm	1
KL-0039-1634	Pressure-/Support Sleeve, short, Ø34/26mm	1	KL-0039-1656	Pressure-/Support Sleeve, short, Ø56/48mm	1	KL-0039-1676	Pressure-/Support Sleeve, short, Ø76/68mm	1
KL-0039-1636	Pressure-/Support Sleeve, short, Ø36/28mm	1	KL-0039-1658	Pressure-/Support Sleeve, short, Ø58/50mm	1	KL-0039-1678	Pressure-/Support Sleeve, short, Ø78/70mm	1
KL-0039-1638	Pressure-/Support Sleeve, short, Ø38/30mm	1	KL-0039-1660	Pressure-/Support Sleeve, short, Ø60/52mm	1	KL-0039-1680	Pressure-/Support Sleeve, short, Ø80/72mm	1
KL-0039-1640	Pressure-/Support Sleeve, short, Ø40/32mm	1	KL-0039-1662	Pressure-/Support Sleeve, short, Ø62/54mm	1	KL-0039-1682	Pressure-/Support Sleeve, short, Ø82/74mm	1
KL-0039-1642	Pressure-/Support Sleeve, short, Ø42/34mm	1	KL-0039-1664	Pressure-/Support Sleeve, short, Ø64/56mm	1	KL-0039-1684	Pressure-/Support Sleeve, short, Ø84/76mm	1
KL-0039-1644	Pressure-/Support Sleeve, short, Ø44/36mm	1	KL-0039-1666	Pressure-/Support Sleeve, short, Ø66/58mm	1	KL-0039-1686	Pressure-/Support Sleeve, short, Ø86/78mm	1
KL-0039-1646	Pressure-/Support Sleeve, short, Ø46/38mm	1	KL-0039-1668	Pressure-/Support Sleeve, short, Ø68/60mm	1	KL-0039-1688	Pressure-/Support Sleeve, short, Ø88/80mm	1
KL-0039-1648	Pressure-/Support Sleeve, short, Ø48/40mm	1	KL-0039-1670	Pressure-/Support Sleeve, short, Ø70/62mm	1	KL-0039-1690	Pressure-/Support Sleeve, short, Ø90/82mm	1
KL-0039-1650	Pressure-/Support Sleeve, short, Ø50/42mm	1						

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KL-0039-170 K

Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Plastic Storage Case

Indispensable tool set for pressing in and pressing out silentblocs, shafts, bushings etc. The sleeves are used in conjunction with the tools of the **KL-0039-... Series**.

Scope of Delivery: KL-0039-170 K Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Plastic Storage Case

Part No.	Description	Qty
KL-0039-170 E	Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm	1
KL-4999-1390	Plastic Storage Case	1

Scope of Delivery: KL-0039-170 E Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Foam Insert

Part No.	Description	Qty
KL-0039-170	Pressure/Support Sleeve Set Ø 30-90mm, long, 115mm	1
KL-4999-1311	Foam Insert	1

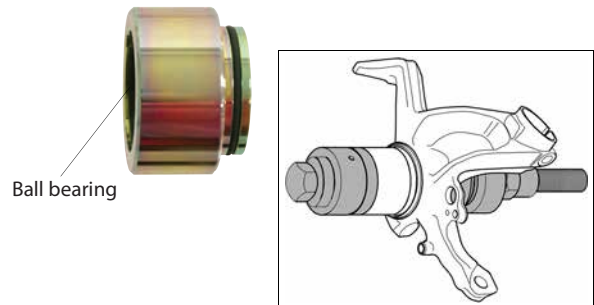
Scope of Delivery: KL-0039-170 Pressure/Support Sleeve Set, Ø 30-90mm, long, 115mm

Part No.	Description	Qty	Part No.	Description	Qty	Part No.	Description	Qty
KL-0039-1730	Pressure-/Support Sleeve, long, Ø 30/22mm	1	KL-0039-1752	Pressure-/Support Sleeve, long, Ø 52/44mm	1	KL-0039-1772	Pressure-/Support Sleeve, long, Ø 72/64mm	1
KL-0039-1732	Pressure-/Support Sleeve, long, Ø 32/24mm	1	KL-0039-1754	Pressure-/Support Sleeve, long, Ø 54/46mm	1	KL-0039-1774	Pressure-/Support Sleeve, long, Ø 74/66mm	1
KL-0039-1734	Pressure-/Support Sleeve, long, Ø 34/26mm	1	KL-0039-1756	Pressure-/Support Sleeve, long, Ø 56/48mm	1	KL-0039-1776	Pressure-/Support Sleeve, long, Ø 76/68mm	1
KL-0039-1736	Pressure-/Support Sleeve, long, Ø 36/28mm	1	KL-0039-1758	Pressure-/Support Sleeve, long, Ø 58/50mm	1	KL-0039-1778	Pressure-/Support Sleeve, long, Ø 78/70mm	1
KL-0039-1738	Pressure-/Support Sleeve, long, Ø 38/30mm	1	KL-0039-1760	Pressure-/Support Sleeve, long, Ø 60/52mm	1	KL-0039-1780	Pressure-/Support Sleeve, long, Ø 80/72mm	1
KL-0039-1740	Pressure-/Support Sleeve, long, Ø 40/32mm	1	KL-0039-1762	Pressure-/Support Sleeve, long, Ø 62/54mm	1	KL-0039-1782	Pressure-/Support Sleeve, long, Ø 82/74mm	1
KL-0039-1742	Pressure-/Support Sleeve, long, Ø 42/34mm	1	KL-0039-1764	Pressure-/Support Sleeve, long, Ø 64/56mm	1	KL-0039-1784	Pressure-/Support Sleeve, long, Ø 84/76mm	1
KL-0039-1744	Pressure-/Support Sleeve, long, Ø 44/36mm	1	KL-0039-1766	Pressure-/Support Sleeve, long, Ø 66/58mm	1	KL-0039-1786	Pressure-/Support Sleeve, long, Ø 86/78mm	1
KL-0039-1746	Pressure-/Support Sleeve, long, Ø 46/38mm	1	KL-0039-1768	Pressure-/Support Sleeve, long, Ø 68/60mm	1	KL-0039-1788	Pressure-/Support Sleeve, long, Ø 88/80mm	1
KL-0039-1748	Pressure-/Support Sleeve, long, Ø 48/40mm	1	KL-0039-1770	Pressure-/Support Sleeve, long, Ø 70/62mm	1	KL-0039-1790	Pressure-/Support Sleeve, long, Ø 90/82mm	1
KL-0039-1750	Pressure-/Support Sleeve, long, Ø 50/42mm	1						

KL-0039-1011

Retaining Adaptor for Mechanical Spindle

This tool is necessary to retain the various **KL-0039-..** and **KL-0043-..** pressure/support sleeves if these are to be used with the mechanical drive. The built-in ball bearing allows for accurate and professional working, even under intensive load.



KL-0040-2592

Safety Belt for Mechanical Pulling Devices

By fastening the safety belt **KL-0040-2592** to the vehicle and to a mechanical pulling device from the **KL-0039-.. Series**, the latter is prevented from falling.

Scope of Delivery: KL-0040-2592 Safety Belt for Mechanical Pulling Devices

Part No.	Description	Qty
KL-0040-2590	Safety Belt for Hydraulic Cylinder 17t	1
KL-0040-2591	Safety Belt Adaptor for Mechanical Pulling Device	1



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KL-0039-2010

(German Utility Model)

Pull Spindle, M10x1.25, with Nuts

Scope of Delivery: KL-0039-2010 Pull Spindle, M10x1.25, with Nuts

Part No.	Description	Qty
KL-0039-2010-1	Pull Spindle, M10x1.25	1
KL-0039-1910-2	Shoulder Nut, M10x1.25	2



Technical Data:

Overall length:	395mm
Max. load capacity:	5t

KL-0039-2210

(German Utility Model)

Pull Spindle, M10, with Shoulder Nut and Quick-Action Clamping Nut

The pull spindle with shoulder nut and quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** to allow bearings, bushings, joints etc. to be removed and installed mechanically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.



Technical Data:

Overall length:	395mm
Max. load capacity:	5t

Scope of Delivery: KL-0039-2210 Pull Spindle M10, with Shoulder Nut and Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-2010-1	Pull Spindle, M10x1.25	1
KL-0039-1910-2	Shoulder Nut, M10x1.25	1
KL-0039-2110-2	Quick-Action Clamping Nut, M10x1.25	1

KL-0039-2012

(German Utility Model)

Pull Spindle, M12, with Nuts

Scope of Delivery: KL-0039-2012 Pull Spindle, M12, with Nuts

Part No.	Description	Qty
KL-0039-2012-1	Pull Spindle, M12	1
KL-0039-1912-2	Shoulder Nut, M12	2



Technical Data:

Overall length:	395mm
Max. load capacity:	7t



Technical Data:

Overall length:	395mm
Max. load capacity:	7t

Scope of Delivery: KL-0039-2212 Pull Spindle M12, with Shoulder Nut and Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-2012-1	Pull Spindle, M12	1
KL-0039-1912-2	Shoulder Nut, M12	1
KL-0039-2112-2	Quick-Action Clamping Nut, M12	1

KL-0039-2212

(German Utility Model)

Pull Spindle, M12, with Shoulder Nut and Quick-Action Clamping Nut

The pull spindle with shoulder nut and quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** to allow bearings, bushings, joints etc. to be removed and installed mechanically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.



Technical Data:

Overall length:	395mm
Max. load capacity:	9t

Scope of Delivery: KL-0039-2014 Pull Spindle, M14, with Nuts

Part No.	Description	Qty
KL-0039-2014-1	Pull Spindle, M14	1
KL-0039-1914-2	Shoulder Nut, M14	1
KL-0039-2114-2	Quick-Action Clamping Nut, M14	1

KL-0039-2014

(German Utility Model)

Pull Spindle, M14, with Nuts

Scope of Delivery: KL-0039-2014 Pull Spindle, M14, with Nuts

Part No.	Description	Qty
KL-0039-2014-1	Pull Spindle, M14	1
KL-0039-1914-2	Shoulder Nut, M14	2



Technical Data:

Overall length:	395mm
Max. load capacity:	9t

Scope of Delivery: KL-0039-2214 Pull Spindle M14, with Shoulder Nut and Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-2014-1	Pull Spindle, M14	1
KL-0039-1914-2	Shoulder Nut, M14	1
KL-0039-2114-2	Quick-Action Clamping Nut, M14	1

KL-0039-2214

(German Utility Model)

Pull Spindle, M14, with Shoulder Nut and Quick-Action Clamping Nut

The pull spindle with shoulder nut and quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** to allow bearings, bushings, joints etc. to be removed and installed mechanically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.



Technical Data:

Overall length:	395mm
Max. load capacity:	13t

Scope of Delivery: KL-0039-2016 Pull Spindle M16, with Nuts

Part No.	Description	Qty
KL-0039-2016-1	Pull Spindle, M16	1
KL-0039-1916-2	Shoulder Nut, M16	1
KL-0039-2116-2	Quick-Action Clamping Nut M16	1

KL-0039-2016

Pull Spindle, M16, with Nuts

Scope of Delivery: KL-0039-2016 Pull Spindle M16, with Nuts

Part No.	Description	Qty
KL-0039-2016-1	Pull Spindle M16	1
KL-0039-1916-2	Shoulder Nut M16	2



Technical Data:

Overall length:	395mm
Max. load capacity:	13t

Scope of Delivery: KL-0039-2216 Pull Spindle M16, with Shoulder Nut and Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-2016-1	Pull Spindle, M16	1
KL-0039-1916-2	Shoulder Nut, M16	1
KL-0039-2116-2	Quick-Action Clamping Nut M16	1

KL-0039-2216

(German Utility Model)

Pull Spindle, M16, with Shoulder Nut and Quick-Action Clamping Nut

The pull spindle with shoulder nut and quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** to allow bearings, bushings, joints etc. to be removed and installed mechanically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.

KL-0039-2018

Pull Spindle, M18, with Nuts

Scope of Delivery: KL-0039-2018 Pull Spindle, M18, with Nuts

Part No.	Description	Qty
KL-0039-2014-1	Pull Spindle M18	1
KL-0039-1914-2	Shoulder Nut, M18	2



Technical Data:

Overall length:	395mm
Max. load capacity:	16t

KL-0039-2020-1

Pull Spindle, M20

Note: Use with 2x KL-0040-3009 Nut.



Technical Data:

Overall length:	395mm
Max. load capacity:	20t

KL-0039-2220

(German Utility Model)

Pull Spindle, M20, with Shoulder Nut and Quick-Action Clamping Nut

The pull spindle with shoulder nut and quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** to allow bearings, bushings, joints etc. to be removed and installed mechanically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.



Technical Data:

Overall length:	395mm
Max. load capacity:	20t

**Scope of Delivery: KL-0039-2220 Pull Spindle, M20,
with Shoulder Nut and Quick-Action Clamping Nut**

Part No.	Description	Qty
KL-0039-2020-1	Pull Spindle, M20	1
KL-0040-3009	Shoulder Nut, M20	1
KL-0039-2120-2	Quick-Action Clamping Nut, M20	1

KL-0039-23

(German Utility Model)

Set of Quick-Action Clamping Nuts (5-pc.)

Universally suitable for the tools of the KL-0039-.. Wheel Bearing/Silenbloc Tool.. Series with pull spindles having either an M10x1.25, M12, M14, M16 or M20 retaining thread.

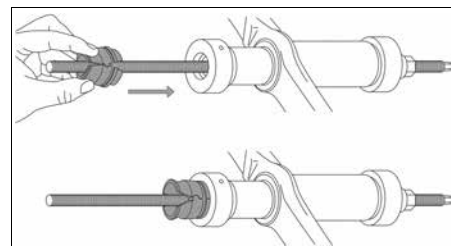
Thanks to their special design, the quick-action clamping nuts can be adjusted simply by sliding them on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.

Scope of Delivery: KL-0039-23 Set of Quick-Action Clamping Nuts (5-pc.)

Part No.	Description	Qty
KL-0039-2110-2	Quick-Action Clamping Nut, M10x1.25	1
KL-0039-2112-2	Quick-Action Clamping Nut, M12	1
KL-0039-2114-2	Quick-Action Clamping Nut, M14	1
KL-0039-2116-2	Quick-Action Clamping Nut, M16	1
KL-0039-2120-2	Quick-Action Clamping Nut, M20	1

KL-0039-22 Set of Quick-Action Clamping Nuts (4-pc.)

(Like the KL-0039-23, however, without KL-0039-2116-2)



KL-0045-70 A

Hydraulic Spindle (12t), with Pressure Piece and Adaptor

The KL-0045-70 A is a hydraulic spindle with a maximum allowable force of 120kN (=12t) designed to fit a wide range of GEDORE Automotive tools.

The tool consists of a body made of high-quality steel with two pistons inside, seal rings and various screw connections.

Scope of Delivery: KL-0045-70 A Hydraulic Spindle (12t)

Part No.	Description	Qty
KL-0045-7	Hydraulic Spindle (12t), M42x2	1
KL-0174-552	Adaptor, 2 1/4"-14 UNS to M42x2	1
KL-0045-7021	Adaptor, Ø 20.5mm, with O-Ring	1



Technical Data:

Maximum admissible force:	105.8kN (10t)
Maximum stroke:	45mm
Maximum oil pressure:	700bar
Maximum volume of oil:	75.91cm ³
Piston area:	15.11cm ²
Thread in tubular piston:	M16/Ø 16.5mm
Retaining thread (pushing side):	2¼"-14 UNS
Retaining thread (pulling side):	M42x2
Cylinder outer diameter:	69mm
Overall Length (piston retracted):	217.5mm
Overall Length (piston extended):	262.5mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	4.65kg

KL-0040-2200

Hydraulic Cylinder, 10t

Due to its special design as a hollow piston cylinder, the **KL-0040-2200** hydraulic cylinder (10t) can be used to perform pulling and pushing operations in conjunction with the corresponding spindles available as accessories.

Note: A hydraulic pump is required to drive the hydraulic cylinder **KL-0040-2200**.



Technical Data:

Maximum admissible force:	285kN (28t)
Maximum stroke:	50mm
Maximum volume of oil:	216.3cm ³
Maximum oil pressure:	700bar
Piston area:	40.6cm ²
Thread in tubular piston:	M24
Retaining thread (pushing side):	2¾"-16 UNS
Retaining thread (pulling side):	M42x2
Cylinder outer diameter:	99mm
Cylinder overall length (piston retracted):	235mm
Cylinder overall length (piston extended):	285mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	9.6kg

KL-0040-2800

Hydraulic Cylinder, 28t

Thanks to its special design as a hollow piston cylinder, the **KL-0040-2800** hydraulic cylinder (28t) can be used to perform pulling and pushing operations in conjunction with the corresponding spindles available as accessories.

Application:

In conjunction with various GEDORE Automotive tools, the hydraulic cylinder **KL-0040-2800** can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentblocs and suspension ball joints.

Note: A hydraulic pump is required to drive the hydraulic cylinder **KL-0040-2800**.



Technical Data:

Maximum admissible force:	170kN (17t)
Maximum stroke:	45mm
Maximum oil pressure:	700bar
Maximum volume of oil:	122cm ³
Piston area:	27cm ²
Thread in tubular piston:	M20
Retaining thread (pushing side):	2¼"-14 UNS
Retaining thread (pulling side):	M42x2
Cylinder external diameter:	80mm
Cylinder overall length (piston retracted):	202mm
Cylinder overall length (piston extended):	247mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	5.2kg

KL-0040-2500 K

Hydraulic Cylinder (17t), in a Plastic Storage Case

Thanks to its special design as a hollow piston cylinder, the **KL-0040-2500** hydraulic cylinder (17t) can be used to perform pulling as well as pushing operations in conjunction with the corresponding spindles available as accessories.

Application:

In conjunction with various GEDORE Automotive tools, the hydraulic-cylinder (17t) **KL-0040-2500** can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentblocs and suspension ball joints.

The **KL-0039-8009** plastic storage case provides additional storage space for the spindles and adaptors of the **KL-0039-.. Series**.

Note:

A hydraulic pump is needed to drive the hydraulic cylinder **KL-0040-2500**.

Scope of Delivery:

KL-0040-2500 K Hydraulic Cylinder 17t in Plastic storage case

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder	1
KL-0039-8009	Plastic Storage Case	1

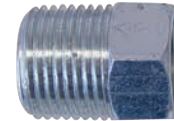
Accessories for the KL-0040-2500 Hydraulic Cylinder (17t)

KL-0040-25..

If an already existing hydraulic pump is used as a drive for one of our **KL-0040-..** GEDORE Automotive hydraulic cylinders, it is important that this hydraulic pump is fitted with a hose or coupling having a 3/8" NPT-connection. If the pump has a different connection size, a thread adaptor will be needed.

KL-0040-2520 Adapter 3/8" NPT to 1/4" NPT

Suitable for GEDORE Automotive, Longus, Rodcraft etc.



KL-0040-2521 Adapter 3/8" NPT to M16x1,5

Suitable for Matra etc.



KL-0040-2522 Adapter 3/8" NPT to M18x1,5

Suitable for Weber etc.

KL-0040-2523 Adapter 3/8" NPT to G1/4"

Suitable for Nike etc.

4

KL-0215-321

Coupling (Hose Side)

Technical Data:

Coupling:	1/4"
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KL-0215-322

Coupling (Cylinder Side)

Technical Data:

Coupling:	1/4"
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KL-0040-2528

Pressure Gauge for KL-0040-2500, with 3/8" NPT Connection Thread

Suitable for KL-0215-37 etc.

The pressure gauge is screw-fitted between the hydraulic pump and hose so as to allow the hydraulic pressure to be monitored during operation. The pressure gauge features an additional tonne scale which is specifically adapted to our hydraulic cylinder **KL-0040-2500**.

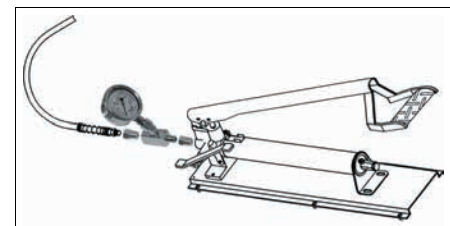
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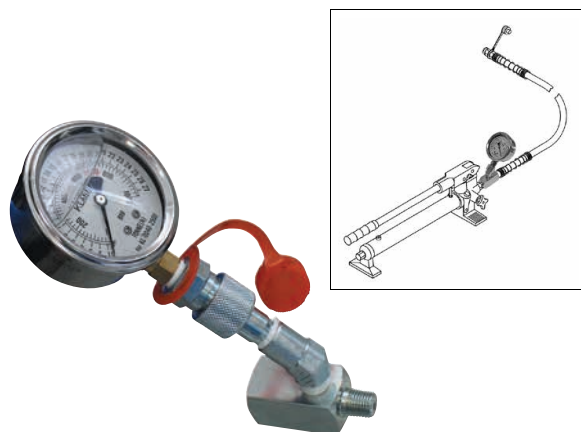
Measuring Range:	1,000bar
Pressure Gauge Ø:	71mm
Connection Thread:	3/8" NPT / 1/4" NPT

Scope of Delivery:

KL-0040-2528 Pressure Gauge for KL-0040-2500, with 3/8" NPT Connection Thread

Part-No.	Description	Qty
KL-0040-2529	Pressure Gauge for KL-0040-2500 with 1/4" Connection Thread	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2524	Adaptor, 1/4" NPT to 3/8" NPT	1





KL-0040-2529

Pressure Gauge for KL-0040-2500, with 1/4" NPT Connection Thread

Intended for use with KL-0215-35 and KL-0215-36 etc.

The pressure gauge is screw-fitted between the hydraulic pump and hose so as to allow the hydraulic pressure to be monitored during operation.

The pressure gauge features an additional tonne scale which is specifically adapted to our hydraulic cylinder **KL-0040-2500**.

Technical Data:

Measuring Range:	1,000bar
Pressure Gauge Ø:	71mm
Connection Thread:	1/4" NPT



KL-0039-800 K

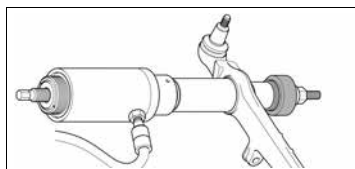
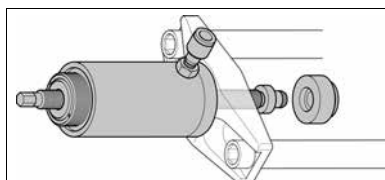
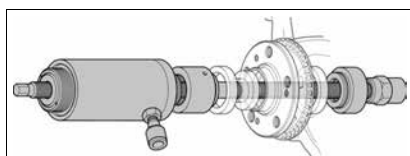
Hydraulic Drive Kit

The kit is designed to upgrade our mechanical tool sets such as the pulling device for silentbloc **KL-0039-413 K**, wheel bearing tool set **KL-0039-0110 K** or puller series **KL-0174-...** so as to enable them to be driven by the hydraulic cylinder (17t) **KL-0040-2500**.

Due to its special design as a tubular piston cylinder and thanks to the possibility to be used in conjunction with various spindles, the hydraulic cylinder **KL-0040-2500** is suitable for pulling and pushing operations. Even severely seized bearings, bushes or drive shafts can be removed and installed quickly and easily using the 17t drive kit.

Scope of Delivery: KL-0039-800 K Hydraulic Drive Kit

Part No.	Description	Qty
KL-0039-1912	Pull Spindle, M12, with Nut	1
KL-0039-1914	Pull Spindle, M14, with Nut	1
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1
KL-0039-1920-4	Clamping Nut, Ø 38mm	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
KL-0039-1935	Thrust Piece	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder (17t)	1
KL-0039-8009	Plastic Storage Case	1

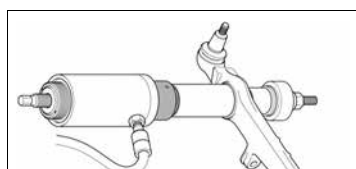


KL-0039-1002

Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle

This adaptor is necessary for retaining the various pressure/support sleeves of the **KL-0039-...** and **KL-0043-...Series**.

Retaining Ø for clamping nut or pressure spindle: 20mm



KL-0039-1003

Retaining Adaptor with O-Rings, for Hydraulic Cylinder

This adaptor is needed to retain the various **KL-0039-...** and **KL-0043-...** pressure/support sleeves if these are to be used with the hydraulic cylinder **KL-0040-2500**. (Connection thread: M42x2)

KL-0039-1005

Adaptor, Ø 35mm

The **KL-0039-1005** adaptor upgrades the **KL-0040-2500** GEDORE Automotive hydraulic cylinder (17t) by making it suitable also for use on the tools of the wheel bearing/silentbloc tool series having an internal retaining Ø of 35mm. For this, the **KL-0039-1003** retaining adaptor is also necessary.

Technical Data:

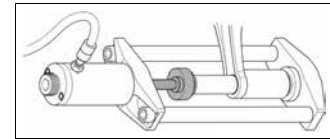
External Ø:	35mm
Internal Ø:	20.5mm
Height:	16mm



KL-0039-1004

Retaining Adaptor with O-Rings, for Pressure Spindle (Ø 18mm)

This tool is needed to retain the various **KL-0039-..** and **KL-0043-..** pressure/support sleeves if these are to be used with the hydraulic drive.



KL-0039-803 A

(German Utility Model)

Hydraulic Drive Kit, with Pull Spindle, without Hydraulic Cylinder

This tool kit is designed to complement a mechanical pulling device such as the **KL-0039-412-K**, **KL-0039-413 K** etc., so as to allow these to be driven by the **KL-0040-2500** hydraulic cylinder; for example, required when pressing out/pressing in bushes and suspension ball joints.

Scope of Delivery:

KL-0039-803 Hydraulic Drive Kit, with Pull Spindle, without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1912	Pull Spindle, M12, with Nut	1
KL-0039-1914	Pull Spindle, M14, with Nut	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydr. Cyl.	1



KL-0039-803 B

(German Utility Model)

Hydraulic Drive Kit, with Pull Spindle, without Hydraulic Cylinder

This tool kit is designed to complement a mechanical pulling device such as the **KL-0039-412-K**, **KL-0039-413 K** etc., so as to allow these to be driven by the **KL-0040-2500** hydraulic cylinder; for example, required when pressing out/pressing in bushes and suspension ball joints.

Scope of Delivery:

KL-0039-803 Hydraulic Drive Kit, with Pull Spindle, without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-2112	Pull Spindle, M12, with Quick-Action Clamping Nut	1
KL-0039-2114	Pull Spindle, M14, with Quick-Action Clamping Nut	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydr. Cyl.	1



KL-0039-1910

(German Utility Model)

Pull Spindle, M10x1.25, with Nut

Scope of Delivery: KL-0039-1910 Pull Spindle, M10x1.25, with Nut

Part No.	Description	Qty
KL-0039-1910-1	Pull Spindle, M10x1.25	1
KL-0039-1910-2	Shoulder Nut, M10x1.25	1



Technical Data:

Overall length:	590mm
Working travel:	390mm
Maximum load capacity:	5t



Technical Data:

Overall length:	590mm
Drive:	390mm
Max. load capacity:	5t

KL-0039-2110

(German Utility Model)

Pull Spindle, M10, with Quick-Action Clamping Nut

The pull spindle with quick-action clamping nut is used in conjunction with the tools of the **KL-0039-... Series** and the **KL-0040-2500** hydraulic cylinder (17t) to allow bearings, bushings, joints etc. to be removed and installed hydraulically. Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times as well as quick and easy adjustment and simple operation of the tool.

Scope of Delivery: KL-0039-2110 Pull Spindle M10, with Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-2110-2	Quick-Action Clamping Nut, M10x1	1
KL-0039-2110-1	Pull Spindle, M10x1.25	1



Technical Data:

Overall length:	590mm
Working travel:	390mm
Maximum load capacity:	7t

KL-0039-1912

Pull Spindle, M12, with Nut

Scope of Delivery: KL-0039-1912 Pull Spindle, M12, with Nut

Part No.	Description	Qty
KL-0039-1912-1	Pull Spindle M12	1
KL-0039-1912-2	Shoulder Nut M12	1



Technical Data:

Overall length:	590mm
Drive:	390mm
Max. load capacity:	7t

KL-0039-2112

(German Utility Model)

Pull Spindle, M12, with Quick-Action Clamping Nut

The pull spindle with quick-action clamping nut is used in conjunction with the tools of the **KL-0039-... Series** and the **KL-0040-2500** hydraulic cylinder (17t) to allow bearings, bushings, joints etc. to be removed and installed hydraulically. Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times as well as quick and easy adjustment and simple operation of the tool.

Scope of Delivery: KL-0039-2112 Pull Spindle M12, with Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-2112-2	Quick-Action Clamping Nut, M12	1
KL-0039-2112-1	Pull Spindle, M12	1



Technical Data:

Overall length:	590mm
Working travel:	390mm
Maximum load capacity:	9t

KL-0039-1914

Pull Spindle, M14, with Nut

Scope of Delivery: KL-0039-1914 Pull Spindle, M14, with Nut

Part No.	Description	Qty
KL-0039-1914-1	Pull Spindle, M14	1
KL-0039-1914-2	Shoulder Nut, M14	1



Technical Data:

Overall length:	590mm
Drive:	390mm
Max. load capacity:	9t

KL-0039-2114

(German Utility Model)

Pull Spindle, M14, with Quick-Action Clamping Nut

The pull spindle with quick-action clamping nut is used in conjunction with the tools of the **KL-0039-... Series** and the **KL-0040-2500** hydraulic cylinder (17t) to allow bearings, bushings, joints etc. to be removed and installed hydraulically. Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.

Scope of Delivery: KL-0039-2114 Pull Spindle M14, with Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-2114-1	Pull Spindle, M14	1
KL-0039-2114-2	Quick-Action Clamping Nut, M14	1

KL-0039-1916

Pull Spindle, M16, with Nut

Scope of Delivery: KL-0039-1916 Pull Spindle, M16, with Nut

Part No.	Description	Qty
KL-0039-1916-1	Pull Spindle, M16	1
KL-0039-1916-2	Shoulder Nut, M16	1



Technical Data:

Overall length:	590mm
Working travel:	390mm
Maximum load capacity:	13t

KL-0039-2116

[German Utility Model]

Pull Spindle, M16, with Quick-Action Clamping Nut

The pull spindle with quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** and the **KL-0040-2500** hydraulic cylinder (17t) to allow bearings, bushings, joints etc. to be removed and installed hydraulically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.

Scope of Delivery: KL-0039-2116 Pull Spindle M16, with Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-1916-1	Pull Spindle, M16	1
KL-0039-2116-2	Quick-Action Clamping Nut, M16	1



Technical Data:

Overall length:	590mm
Drive:	390mm
Max. load capacity:	13t

KL-0039-1920

[German Utility Model]

Pull Spindle, M20, with Clamping Nut

Scope of Delivery: KL-0039-1920 Pull Spindle, M20, with Clamping Nut

Part No.	Description	Qty
KL-0039-1920-1	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut	1



Technical Data:

Overall length:	590mm
Working travel:	390mm
Maximum load capacity:	20t

KL-0039-2120

[German Utility Model]

Pull Spindle, M20, with Quick-Action Clamping Nut

The pull spindle with quick-action clamping nut is used in conjunction with the tools of the **KL-0039-.. Series** and the **KL-0040-2500** hydraulic cylinder (17t) to allow bearings, bushings, joints etc. to be removed and installed hydraulically.

Thanks to its special design, the quick-action clamping nut can be adjusted simply by sliding it on the pull spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool.

Scope of Delivery: KL-0039-2120 Pull Spindle M20, with Quick-Action Clamping Nut

Part No.	Description	Qty
KL-0039-1920-1	Pull Spindle, M20	1
KL-0039-2120-2	Quick-Action Clamping Nut, M20	1



Technical Data:

Overall length:	590mm
Drive:	390mm
Max. load capacity:	20t

KL-0039-1930

Pressure Spindle with O-Ring, M20x350mm

Technical Data:

Pin Ø:	20mm
Overall length:	350mm
Maximum load capacity:	20t



KL-0039-1931

Pressure Spindle with O-Ring, M20x405mm

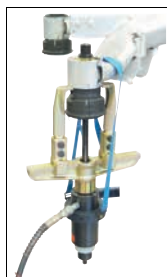
Technical Data:

Pin-Ø:	20mm
Overall length:	405mm
Maximum load capacity:	20t



Note:

Required e.g. for tool sets **KL-0610-11**, **-12**, **-13** and **KL-1615-11**.



KL-0040-2590

Safety Belt for Hydraulic Cylinder (17t)

By fastening the **KL-0040-2590** safety belt to the vehicle and to the hydraulic cylinder **KL-0040-2500**, the latter is prevented from falling.



KL-0040-258 A

Retaining Device

for Hydraulic Cylinder KL-0040-2500

The **KL-0040-258 A** retaining device is used in conjunction with a transmission jack (Plunger Ø 30mm) thus allowing for the easy and trouble-free operation of all those GEDORE Automotive tools that are driven by the **KL-0040-2500** hydraulic cylinder.

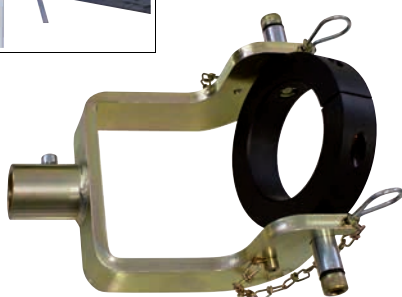
Technical Data:

Retaining Ø:	30mm
Weight:	2.6kg

Scope of Delivery:

KL-0040-258 A Retaining Device for Hydraulic Cylinder KL-0040-2500

Part No.	Description	Qty
KL-0040-2580 A	Retaining Device without Clamp Ring	1
KL-0040-2587	Clamp Ring for Hydraulic Cylinder	1



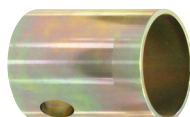
KL-0040-2588

Adaptor Sleeve, VW, Ø 36mm

This adaptor is needed to use the retaining devices **KL-0040-258 A** and **KL-0040-288**, and the **KL-0145-120** supporting device in conjunction with the VW transmission jacks having a retaining Ø of 36mm.

Technical Data:

Pin Ø:	30mm
Retaining Ø:	36mm



KL-0040-2571

Adaptor Sleeve, Ø 25mm

This adaptor is needed to use the retaining device **KL-0040-258 A**, **KL-0040-288** or the supporting device for control arm **KL-0145-120** in conjunction with a transmission jack having a plunger with Ø 25mm.



KL-0145-120 A

Supporting Device for Control Arm

Universal application.

The device is used in conjunction with a transmission jack for supporting control arms. The support takes place via the wheel hub, thus, ensuring the correct raising and lowering of control arms/axles to specified positions.

An indispensable tool when removing and installing a suspension strut.

Accessories for the KL-0045-7 Hydraulic Spindle (12t)

KL-0040-2593

Safety Belt Adaptor for Hydraulic Spindle

The **KL-0040-2593** adaptor is designed to retain the hydraulic spindle **KL-0045-7** in the **KL-0040-2590** safety belt.



KL-0040-2594

Safety Belt for Hydraulic Spindle

By fastening the safety belt **KL-0040-2594** to the vehicle and to the hydraulic spindle **KL-0045-7**, the latter is prevented from falling.

Scope of Delivery: KL-0040-2594 Safety Belt for Hydraulic Spindle

Part No.	Description	Qty
KL-0040-2590	Safety Belt for Hydraulic Cylinder 17 t	1
KL-0040-2593	Safety Belt Adaptor for Hydraulic Spindle	1



4

Accessories for the KL-0040-2200 Hydraulic Cylinder (10t)

KL-0040-2241

Pressure Spindle, M16

Technical Data:

Length:	350mm
Maximum load capacity:	13t



KL-0040-2242

Pull Spindle, M16, with Nut

Scope of Delivery: KL-0040-2242 Pull Spindle, M16, with Nut

Part No.	Description	Qty
KL-0040-2242-1	Pull Spindle, M16x590mm	1
KL-0039-1916-2	Shoulder Nut, M16	1



Technical Data:

Length:	590mm
Maximum load capacity:	13t

KL-0040-2229

Pressure Gauge for KL-0040-2200, with 1/4" NPT Connection Thread

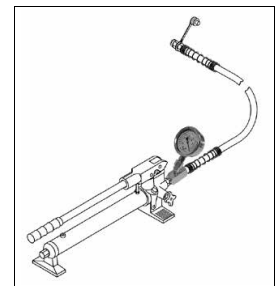
Suitable for KL-0215-35 und KL-0215-36 etc.

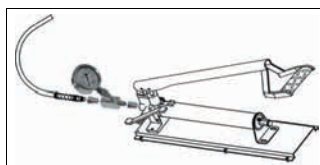
The pressure gauge can be screw-connected between the hydraulic pump and hose so as to allow the hydraulic pressure to be monitored during operation.

The pressure gauge features an additional tonne scale that is specifically adapted to our hydraulic cylinder **KL-0040-2200**.

Technical Data:

Measuring Range:	1,000bar
Pressure gauge Ø:	71mm
Connection thread:	1/4" NPT





KL-0040-2228

Pressure Gauge for KL-0040-2200, with 3/8" NPT Connection Thread

Suitable for KL-0215-37 etc.

The pressure gauge can be screw-connected between the hydraulic pump and hose so as to allow the hydraulic pressure to be monitored during operation.

The pressure gauge features an additional tonne scale that is specifically adapted to our hydraulic cylinder **KL-0040-2200**.

Scope of Delivery:

KL-0040-2228 Pressure Gauge for KL-0040-2200, with 3/8" NPT Connection Thread

Technical Data:

Measuring Range:	1,000bar
Pressure gauge Ø:	71mm
Connection thread:	3/8" NPT

Part No.	Description	Qty
KL-0040-2229	Pressure Gauge for KL-0040-2200, with 1/4" NPT Connection Thread	1
KL-0040-2520	Adaptor 3/8" NPT to 1/4" NPT	1
KL-0040-2524	Adaptor 1/4" NPT to 3/8" NPT	1

4

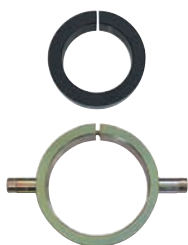


KL-0040-2290

Safety Belt for Hydraulic Cylinder (10t)

By using the safety belt **KL-0040-2290** on the vehicle and on the hydraulic cylinder **KL-0040-2200**, the latter is prevented from falling.

Accessories for the KL-0040-2800 Hydraulic Cylinder (28t)



KL-0040-288

Retaining Device for Hydraulic Cylinder KL-0040-2800

The **KL-0040-288** retaining device is used in conjunction with a transmission jack (plunger Ø of 30mm), thus enabling easy and trouble-free working with all those GEDORE Automotive tools that are driven by the **KL-0040-2800** hydraulic cylinder.

Scope of Delivery: KL-0040-288 Retaining Device for Hydr. Cyl. KL-0040-2800

Technical Data:

Retaining Ø:	30mm
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Part No.	Description	Qty
KL-0040-2580 A	Retaining Device without Clamp Ring	1
KL-0040-2881	Clamp Ring for Hydraulic Cylinder	1
KL-0040-2882	Adaptor Ring	1

KL-0040-2810

Pressure Spindle, M24



Technical Data:

Length:	405mm
Maximum load capacity:	28t

KL-0040-2812

Pull Spindle, M24, with Clamping Nut

Suitable for hydraulic cylinder KL-0040-2800.

Scope of Delivery: KL-0040-2812 Pull Spindle, M24, with Clamping Nut

Technical Data:

Length:	590mm
Maximum load capacity:	28t

Part No.	Description	Qty
KL-0040-2812-1	Pull Spindle, M24x590mm	1
KL-0040-2812-3	Clamping Nut, M24/Ø 40mm	1

KL-0040-2846-1

Pull Spindle, M20x590mm

Suitable for hydraulic cylinder **KL-0040-2800**.



Technical Data:

Length:	590mm
Thread:	M20
Max. load capacity:	20t

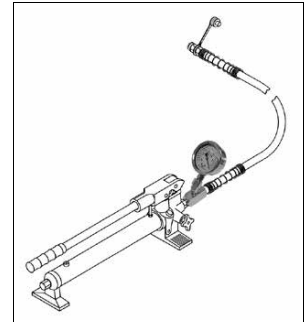
KL-0040-2829

Pressure Gauge for KL-0040-2800, with 1/4" NPT Connection Thread

Suitable for **KL-0215-35** and **KL-0215-36** etc.

The pressure gauge can be screw-connected between the hydraulic pump and hose so as to allow the hydraulic pressure to be monitored during operation.

The pressure gauge features an additional tonne scale that is specifically adapted to our hydraulic cylinder **KL-0040-2800**.



Technical Data:

Measuring Range:	1,000bar
Pressure Gauge Ø:	71mm
Connection Thread:	1/4" NPT

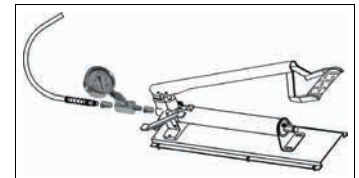
KL-0040-2828

Pressure Gauge for KL-0040-2800, with 3/8" NPT Connection Thread

Suitable for **KL-0215-36** etc.

The pressure gauge can be screw-connected between the hydraulic pump and hose so as to allow the hydraulic pressure to be monitored during operation.

The pressure gauge features an additional tonne scale that is specifically adapted to our hydraulic cylinder **KL-0040-2800**.



Scope of Delivery:

KL-0040-2828 Pressure Gauge for KL-0040-2800, with 3/8" NPT Connection Thread

Part No.	Description	Qty
KL-0040-2829	Pressure Gauge for KL-0040-2800 with 1/4" Connection Thread	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2524	Adaptor, 1/4" NPT to 3/8" NPT	1

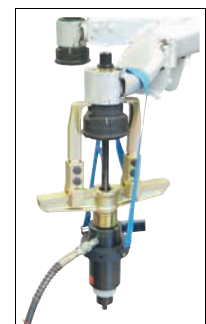
Technical Data:

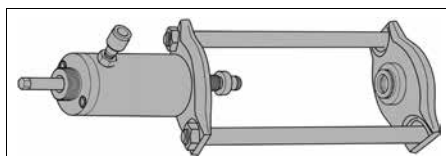
Measuring Range:	1,000bar
Pressure Gauge Ø:	71mm
Connection Thread:	3/8" NPT

KL-0040-2890

Safety Belt for Hydraulic Cylinder (28t)

By fastening the safety belt **KL-0040-2890** to the vehicle and to the hydraulic cylinder **KL-0040-2800**, the latter is prevented from falling.





KL-0039-1140

Press Frame (Lightweight, Short Design)

Short design, without drive.

Technical Data:

Inner width:	115mm
Inner length:	275mm
Maximum load capacity:	12t
Cylinder connection thread:	2 1/4"-14 UNS
Weight:	4.7kg

Scope of Delivery: KL-0039-1140 Press Frame (Lightweight, Short Design)

Part No.	Description	Qty
KL-0039-114	Frame Bars (pair), 285mm long, with Hex Nuts	1
KL-0039-1144	Base Plate, 2 1/4"-14 UNS	2
KL-0039-1105	Adaptor with O-Ring, 2 1/4"-14 UNS to Ø 30mm	1

4



KL-0039-115

Frame Bars (Pair), 350mm long, with Hex Nuts

Used to retool the press frame **KL-0039-1140** to an internal length of 350mm. Required, for example, when using a long pressure sleeve and a long support sleeve of the **KL-0039-17.. Series**.

KL-0039-1160 K

Press Frame Kit, without Hydr. Cyl., in a Plastic Storage Case

An indispensable kit for pressing in and pressing out suspension ball joints, bushings etc. Used in conjunction with the tools of the **KL-0039-..Series**.

Scope of Delivery:

KL-0039-1160 K Press Frame Kit, without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1160 E	Press Frame Kit, without Hydraulic Cylinder, in a Foam Insert	1
KL-4999-1391	Plastic Storage Case	1

Scope of Delivery:

KL-0039-1160 E Press Frame Kit, without Hydraulic Cylinder, in a Foam Insert

Part No.	Description	Qty
KL-0039-1160	Press Frame Kit, without Hydraulic Cylinder	1
KL-4999-1318	Foam Insert	1

Scope of Delivery:

KL-0039-1160 Press Frame Kit, without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1161	Press Frame Kit, without Drive	1
KL-0039-1002	Retaining Adaptor for Clamping Nut	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1

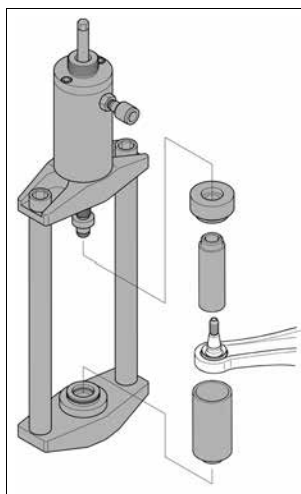
KL-0039-1161 E

Press Frame Kit, without Drive, in a Foam Insert

Like the **KL-0039-1160 E**, however without the Spindle **KL-0039-1930** and without the Adaptor **KL-0039-1002** (not shown).



KL-0039-1160 E



KL-0039-1110

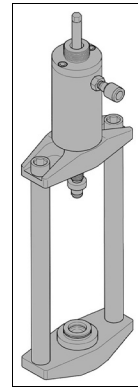
Press Frame (Short Design)

Short design, without drive.

Scope of Delivery:

KL-0039-1110 Press Frame (Short Design)

Part No.	Description	Qty
KL-0039-1101	Base Plate	2
KL-0039-111	Frame Bars (pair), 285mm long, with Cheese Head Screws	1
KL-0039-1105	Adaptor with O-Ring, 2¼"-14 UNS to Ø 30mm	1



Technical Data:

Inner width:	135mm
Inner length:	275mm
Maximum load capacity:	17t
Cylinder connection thread:	2¼"-14 UNS
Weight:	7.8kg

KL-0039-113

Frame Bars (Pair), 350mm long, with Cheese Head Screws

Used to retool the press frame **KL-0039-1110** to an inner length of 350mm. Required, for example, when using a long pressure sleeve and a long support sleeve of the **KL-0039-17.. Series**.



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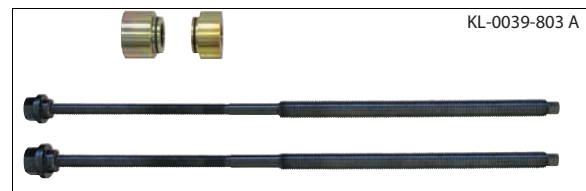
KL-0039-809 A

Hydraulic Drive Kit, with Press Frame

This tool is designed to upgrade a mechanical pulling device such as the **KL-0039-412 K**, **KL-0039-413 K** etc. so as to allow these to be driven by the **KL-0040-2500** hydraulic cylinder. The drive can also be used for pressing out and pressing in bushes and suspension ball joints.

Scope of Delivery: KL-0039-809 A Hydraulic Drive Kit with Press Frame

Part No.	Description	Qty
KL-0039-803 A	Hydraulic Drive Kit with Pull spindle, without Hydraulic Cylinder	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1
KL-0039-1140	Press Frame (lightweight, short)	1



Scope of Delivery: KL-0039-803 Hydraulic Drive Kit, with Pull Spindle

Part No.	Description	Qty
KL-0039-1912	Pull Spindle, M12, with Nut	1
KL-0039-1914	Pull Spindle, M14, with Nut	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydr. Cyl.	1

KL-0039-809 B

Hydraulic Drive Kit, with Press Frame

This tool is designed to upgrade a mechanical pulling device such as the **KL-0039-412 K**, **KL-0039-413 K** etc. so as to allow these to be driven by the **KL-0040-2500** hydraulic cylinder. For example, required when pressing out and pressing in bushes and suspension ball joints.

Scope of Delivery: KL-0039-809 B Hydraulic Drive Kit with Press Frame

Part No.	Description	Qty
KL-0039-803 B	Hydraulic Drive Kit, with Pull Spindle, without Hydraulic Cylinder	1
KL-0039-1930	Pressure Spindle, with O-Ring, M20x350mm	1
KL-0039-1140	Press Frame (lightweight, short)	1



Scope of Delivery: KL-0039-803 B Hydraulic Drive Kit, with Pull Spindle

Part No.	Description	Qty
KL-0039-2112	Pull Spindle, M12, with Quick-Action Clamping Nut	1
KL-0039-2114	Pull Spindle, M14, with Quick-Action Clamping Nut	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1



KL-0174-831 Mechanical Drive Set

The mechanical drive set **KL-0174-831** enables GEDORE Automotive pressing devices, for example those consisting of press frame **KL-0039-1140**, **KL-0326-1000** etc. and sleeve sets of the **KL-0039 Series**, to be driven mechanically.

Scope of Delivery:

KL-0174-831 Mechanical Drive Set

Part No.	Description	Qty
KL-0174-620	Spindle, M20x2x230mm	1
KL-0174-547	Adaptor, 2 1/4"-14 UNS to M20x2	1
KL-0174-853	Thrust Piece for Mechanical Spindle	1

4

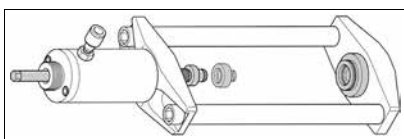


KL-1000-03 Stand for Press Frame

This tool is designed for the fastening of the mobile 28t press frame **KL-1000-01**, the 17t press frame **KL-0043-900** or any other press frame of the **KL-0039-.. Series**. Thus, the respective GEDORE press frame can be used as a stationary bench press.

Technical Data:

Retaining thread:	2 1/4"-14 UNS
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KL-0039-1106 Adaptor with O-Ring, M42x2 to Ø 30mm

This adaptor is needed when the various pressure/support sleeves of the **KL-0039-.. Series** are to be used in conjunction with the press frames of the **KL-0043-.. Series**.

Technical Data:

Thread:	M42x2 to Ø 30mm
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KL-0039-1105 Adaptor with O-Ring, 2 1/4"-14 UNS to Ø 30mm

This adaptor is needed when the various pressure/support sleeves of the **KL-0039-.. Series** are to be used in conjunction with the press frames of the **KL-0039-.. Series**.

Technical Data:

Thread:	2 1/4"-14 UNS to Ø 30mm
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Retaining thread for
hydraulic cylinder



Retaining thread for
tool set

KL-0040-2855 Adaptor, 2 1/4"-14 UNS to 2 3/4"-16 UN

This tool enables a hydraulic cylinder with a 2 3/4"-16 UN retaining thread to be used as a drive for the GEDORE Automotive hydraulic tool sets.

Technical Data:

External thread:	2 1/4"-14 UNS
Internal thread:	2 3/4"-16 UN

Note:

The external thread 2 1/4"-14 UNS measured on the tool set features an internal Ø of 55.15mm. The internal thread 2 3/4"-16 UN measured on the hydraulic cylinder to be screwed in features an external Ø of 69.65mm.

KL-0174-556

Adaptor, 2 1/4"-14 UNS to M68x2

Required to use a hydraulic cylinder having an M68x2 retaining thread as a drive for the GEDORE Automotive Hydraulic Tool Sets.

Technical Data:

External thread:	2 1/4"-14 UNS
Internal thread:	M68x2

Note:

The external thread 2 1/4"-14 UNS, measured on the tool set, has an internal Ø of 55.15mm. The internal thread M60x2 measured on the hydraulic cylinder to be screwed in, has an external Ø of 68mm.

Retaining thread for
hydraulic cylinder



Retaining thread
for tool set

KL-0174-558

Adaptor, 2 1/4"-14 UNS to M55x2

Compatible with the Gedore wheel hub puller for HGV 1.62.

This adaptor is needed to use the 17t hydraulic cylinder **KL-0040-2500** in conjunction with pressure spindle **KL-0039-1930** and pressure piece **KL-0039-1935** as a drive for the Gedore wheel hub puller for HGV 1.62 (Code 8026030).

Even severely stuck/seized wheel hubs are no longer an issue using the **KL-0040-2500** 17t hydraulic cylinder.

Retaining thread for
hydraulic cylinder



Retaining thread
for tool set

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KL-0174-559

Adaptor, 2 1/4"-14 UNS to 2 1/4"-14 UNS

This adaptor is needed to operate the hydraulic cylinder **KL-0040-2500** when the perforated puller plates (size 2 and size 3) having a pitch circle diameter of 90-102mm from the **KL-0174-.. Series** are to be used.

Technical Data:

External thread:	2 1/4"-14 UNS
Internal thread:	2 1/4"-14 UNS

Note: Other dimensions available upon request.

Retaining thread for
hydraulic cylinder



Retaining thread
for tool set

KL-0174-561

Adaptor, 2 1/4"-16 UN to 2 1/4"-14 UNS

This tool is necessary if the hydraulic cylinder **KL-0040-2500** is to be used as a drive for a tool set having a 2 1/4"-16 UN retaining thread.

Technical Data:

External thread:	2 1/4"-16 UN
Internal thread:	2 1/4"-14 UNS

Note: The external thread 2 1/4"-16 UN measured on the tool set, features an internal Ø of 55.15mm. The internal thread 2 1/4"-14 UNS measured on the hydraulic cylinder to be screwed in, features an external Ø of 56.95mm.

Retaining thread for
hydraulic cylinder



Retaining thread
for tool set

KL-0174-562

Adaptor, 2 3/4"-16 UN to 2 1/4"-14 UNS

This tool is required if the 17t hydraulic cylinder **KL-0040-2500** or the 10t hydraulic cylinder **KL-0040-2200** are to be used as a drive for press frame **KL-1000-01**.

Technical Data:

External Thread:	2 3/4"-16 UN
Internal Thread:	2 1/4"-14 UNS

Note: The external thread 2 3/4"-16 UN measured on the tool set, has an internal Ø of 68.25mm. The internal thread 2 1/4"-14 UNS measured on the hydraulic cylinder to be screwed in, features an external Ø of 56.95mm.

Retaining thread for
hydraulic cylinder



Retaining thread
for tool set

Retaining thread for
hydraulic cylinder



Retaining thread
for tool set

KL-0174-563

Adaptor, 2 1/4"-14 UN to Ø 60mm

Component for the assembly of a puller from the KL-0174-.. Puller Series.

Technical Data:

External thread:	2 1/4"-14 UNS
Retaining bore:	Ø 60/46mm

Note: 2 1/4"-14 UNS measured on the tool set has internal Ø of 55.15mm.
Retaining bore specially designed for the adaptor **KL-0039-1003**.

Retaining thread for
hydraulic cylinder



Retaining thread
for tool set

KL-0174-565

Adaptor, M68x2 to 2 1/4"-14 UNS

Component for the assembly of a puller from the KL-0174-.. Puller Series.

Technical Data:

External thread:	M68x2
Internal thread:	2 1/4"-14 UNS

Note: The external thread M68x2, measured on the tool set, has an internal Ø of 65.85mm.
The internal thread 2 1/4"-14 UNS, measured on the hydraulic cylinder to be screwed in, features an external Ø of 56.95mm.

Retaining thread for
hydraulic cylinder



Retaining thread
for tool set

KL-0174-566

Adaptor, 2 1/4"-14 UNS to M60x2

Necessary to use a hydraulic cylinder having an M60x2 retaining thread as a drive for the GEDORE Automotive Hydraulic Tool Sets.

Technical Data:

External Thread:	2 1/4"-14 UNS
Internal Thread:	M60x2

Note: The external thread 2 1/4"-14 UNS measured on the tool set, has an internal Ø of 55.15mm.
The internal thread M60x2 measured on the hydraulic cylinder to be screwed in, has an external Ø of 60mm.

Retaining thread for
hydraulic cylinder



Retaining thread
for tool set

KL-0174-567

Adaptor, 2 1/4"-14 UNS to G1 1/2"-11

Necessary to use a hydraulic cylinder having a G1 1/2"-11 retaining thread as a drive for the GEDORE Automotive Hydraulic Tool Sets.

Technical Data:

External thread:	2 1/4"-14 UNS
Internal thread:	G1 1/2"-11

Note: The external thread 2 1/4"-14 UNS, measured on the tool set, has an internal Ø of 55.15mm.
The internal thread G1 1/2"-11 UNS, measured on the hydraulic cylinder to be screwed in, has an external Ø of 47.8mm.

Retaining thread for
hydraulic cylinder



Retaining thread
for tool set

KL-0174-568

Adaptor, M60x2 to 2 1/4"-14 UNS

This adaptor is required to use the Hydraulic Cylinder **KL-0040-2500** as a drive for tool sets having an M60x2 retaining thread.

Technical Data:

External thread:	M60x2
Internal thread:	2 1/4"-14 UNS

Note: The external thread M60x2, measured on the tool, set has an internal Ø of 57.85mm.
The internal thread 2 1/4"-14 UNS, measured on the hydraulic cylinder to be screwed in, has an external Ø of 56.95mm.

KL-0174-569

Adaptor, 1 1/2"-16 UN to 2 1/4"-14 UNS

This adaptor is required to use the Hydraulic Cylinder **KL-0040-2500** as a drive for tool sets having a 1 1/2"-16 UN retaining thread.

Technical Data:

External thread:	1 1/2"-16 UN
Internal thread:	2 1/4"-14 UNS

Note: The external thread 1 1/2"-16 UN, measured on the tool set, has an internal Ø of 36.6mm. The internal thread 2 1/4"-14 UNS measured on the Hydraulic Cylinder to be screwed in, has an external Ø of 56.95mm.

Retaining thread for hydraulic cylinder



Retaining thread for tool set

KL-0174-571

Adaptor, M40x2 to 2 1/4"-14 UNS

This adaptor is required to use the Hydraulic Cylinder **KL-0040-2500** as a drive for tool sets having an M40x2 retaining thread.

Technical Data:

External thread:	M40x2
Internal thread:	2 1/4"-14 UNS

Note: The external thread M40x2, measured on the tool set, has an internal Ø of 38mm. The internal thread 2 1/4"-14 UNS measured on the hydraulic cylinder to be screwed in, has an external Ø of 56.95mm.

Retaining thread for hydraulic cylinder



Retaining thread for tool set

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KL-0174-853

Thrust Piece for Mechanical Spindle, with O-Rings

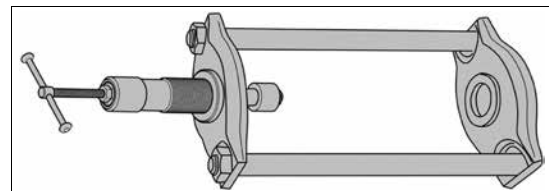
The tool is needed when spindle **KL-0174-620** or **KL-0174-817** and adaptor **KL-0174-547** are used as a mechanical drive for the GEDORE Automotive pressing devices.



KL-0045-7021

Adaptor (Pin Ø 20mm)

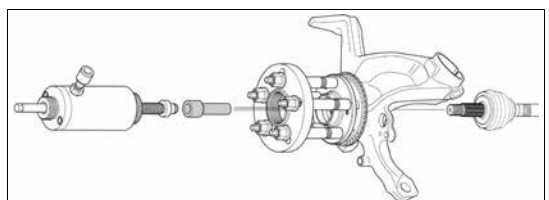
This tool is required when the various pressure/support sleeves of the **KL-0039-.. Series** are to be used in conjunction with the hydraulic spindle **KL-0045-70**.



KL-0039-1935

Thrust Piece

This tool is necessary for pressing out drive shafts. It is used in conjunction with the **KL-0174-.. Puller Series**, the **KL-0040-2500** hydraulic cylinder and the **KL-0039-1930** pressure spindle with pin Ø 20mm.





KL-0214-16

Pulling Device for Silentbloc, with Mechanical Drive, Audi/Seat/Škoda/VW

Suitable for VW Polo (9N); Seat Ibiza IV, Cordoba (2002 onwards); Škoda Fabia, Roomster and Audi A2, front axle bracket wishbone mount.

The pulling device **KL-0214-16** enables the quick and safe removal and installation of silentblocs in the bracket to be performed directly on the vehicle.

Technical Data:

Weight:	2.8kg
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Scope of Delivery: KL-0214-16 Pulling Device for Silentbloc, with Mechanical Drive

Part No.	Description	Qty
KL-0214-1601	Retaining Adaptor for Mechanical Spindle	1
KL-0214-1602	Pull Spindle, M10x1.25	1
KL-0214-1603	Spacer	1
KL-0214-1604	Pull Spindle Extension, M10x1.25	1
KL-0214-1605	Shoulder Nut, M10x1.25	1
KL-0214-1606	Pressure Piece (extraction)	1
KL-0214-1607	Pressure Piece (insertion)	1
KL-0214-1608	Centring Ring	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



7 R - Combination Ratchet Spanner



4



KL-0214-17

Press Tool Set with Hydr. Cyl., Golf IV Front Axle Wishbone

Suitable for VW Golf III and IV, Bora, Vento, New Beetle, Caddy II; Audi A3, TT, TT Roadster; Seat Leon, Toledo II and III; Škoda Octavia

Used in conjunction with a hydraulic pump such as **KL-0215-35 M25**, the press tool set **KL-0214-17** enables the quick, professional and safe removal and installation of silentblocs on the front axle.

This set enables even severely corroded silentblocs to be extracted and replaced within just a few minutes.

The possibility to easily upgrade the tool set with parts of the **KL-0039-... Series**, such as pressure-/support sleeves, allows for a wide range of applications.

Scope of Delivery:

KL-0214-17 Press Tool Set with Hydr. Cyl., Golf IV Front Axle Wishbone

Part No.	Description	Qty
KL-0214-170	Press Tool Set without Hydr. Cyl., Golf IV Front Axle Wishbone	1
KL-0040-2500	Hydraulic Cylinder 17t	1

Scope of Delivery:

KL-0214-170 Press Tool Set without Hydr. Cyl., Golf IV Front Axle Wwishbone

Part No.	Description	Qty
KL-0214-171	Sleeve set Golf IV	1
KL-0039-1930	Pressure spindle M20x350mm with O-ring	1
KL-0039-1002	Retaining adaptor for clamping nut and pressure spindle with O-Ring	1
KL-0039-1140	Press frame (short)	1

Scope of Delivery:

KL-0214-171 Sleeve Set, VW-Audi/Seat/Škoda

Part No.	Description	Qty
KL-0214-1701	Pressure Ring	1
KL-0039-1780	Pressure-/Support sleeve long Ø 80mm	1

KL-0214-189

Pulling Device for Silentbloc, with Mechanical Drive, VW Golf V, Passat

Suitable for the silentblocs found on the front axle wishbone of: VW Golf (2004 onwards), Passat (2006 onwards), EOS (2006 onwards), Scirocco (2009 onwards), Tiguan (2008 onwards) and (Touran 2003 onwards).

Allows for the quick and safe removal and installation of the specified silentblocs without the need for removing the wishbone from the vehicle. The possibility to easily upgrade the pulling device with parts of the **KL-0039-.. Series** allows for a wide range or applications. For example, the tool can also be used for changing suspension ball joints etc.

Scope of Delivery: KL-0214-189 Pulling Device for Silentbloc

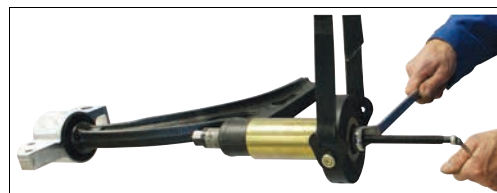
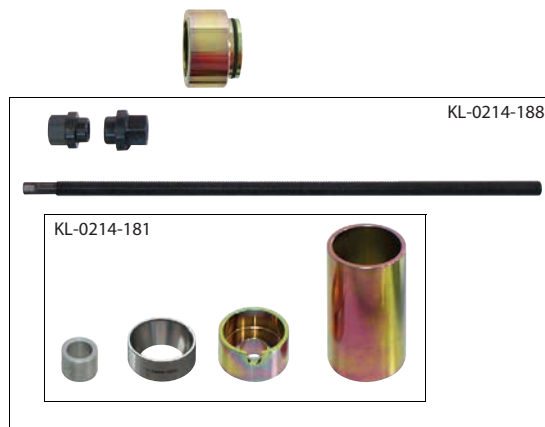
Part No.	Description	Qty
KL-0214-188	Set of Sleeves with Spindle and Nuts, VW Golf V, Passat	1
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	1

Scope of Delivery: KL-0214-188 Set of Sleeves with Spindle and Nuts

Part No.	Description	Qty
KL-0214-181	Set of Sleeves, VW Golf V, Passat	1
KL-0039-2012	Pull Spindle, M12, with Nuts	1
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1

Scope of Delivery: KL-0214-181 Set of Sleeves, VW Golf V, Passat, Front Axle

Part No.	Description	Qty
KL-0214-1801	Support Sleeve, short, Ø 56mm	1
KL-0214-1802	Conical Sleeve	1
KL-0039-1330	Centring Ring, Ø 30mm	1
KL-0039-1758	Pressure/Support sleeve, long, Ø 58mm	1



Accessories (on demand):

7 R - Combination Ratchet Spanner



1 B - Combination Spanner UD-Profile



KL-0214-18

Pulling Device for Silentbloc, with Hydraulic Cylinder; VW Golf V, Passat, Front Axle

Suitable for the silentblocs found at the front axle wishbone of: VW Golf (2004 onwards), Passat (2006 onwards), EOS (2006 onwards), Scirocco (2009 onwards), Tiguan (2008 onwards), Touran (2003 onwards)

Allows for the quick and professional removal and replacement of the specified silentblocs. The possibility to easily upgrade the pulling device with parts of the **KL-0039-.. Series** allows for a wide range of applications. The tool can, for example, also be used for changing suspension ball joints etc.

Scope of Delivery: KL-0214-18 Pulling Device for Silentbloc, with Hydr. Cyl.

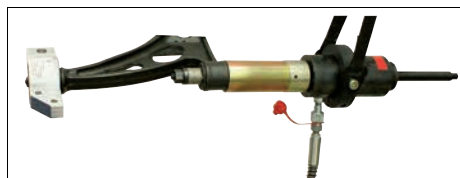
Part No.	Description	Qty
KL-0214-180	Pulling Device for Silentbloc without Hydraulic Cylinder	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

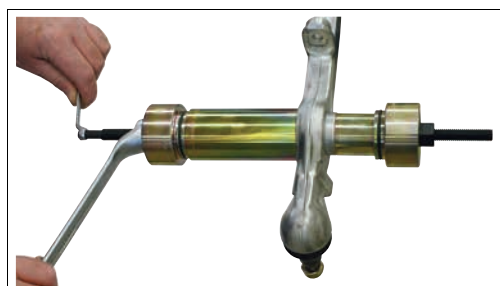
Scope of Delivery: KL-0214-180 Pulling Device for Silentbloc, without Hydr. Cyl.

Part No.	Description	Qty
KL-0214-181	Set of Sleeves, VW Golf V, Passat, Front Axle	1
KL-0039-1912	Pull Spindle, M12, with Nut	1

Scope of Delivery: KL-0214-181 Set of Sleeves, VW Golf V, Passat, Front Axle

Part No.	Description	Qty
KL-0214-1801	Support Sleeve, short, Ø 56mm	1
KL-0214-1802	Conical Sleeve	1
KL-0039-1330	Centring Ring, Ø 30mm	1
KL-0039-1758	Pressure/Support sleeve, long, Ø 58mm	1





Accessories (on demand):

7 R - Combination Ratchet Spanner



1 B - Combination Spanner UD-Profil



KL-0214-149

Pulling Device (Mechanical Drive), Audi/Skoda/VW, Front Axle

Suitable for silentblocs and joint bushes with bearing Ø of 40mm as found on the suspension strut mount at the front axle wishbone of Audi A4, A6, A8, Škoda Superb and VW Passat.

Enables the quick and safe removal and replacement of the silentblocs on the suspension strut mount without the need to remove the wishbone from the vehicle. Universal use of the pulling device - thanks to the possibility to complement the tool set with other parts of the **KL-0039-.. Series**. It can, for example, also be used for changing suspension ball joints etc.

Technical Data:

Weight:	2.7kg
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Scope of Delivery:

KL-0214-149 Pulling Device (Mechanical Drive), Audi/Skoda/VW, Front Axle

Part No.	Description	Qty
KL-0214-148	Sleeve Set with Spindle and Nuts, Audi/Skoda/VW, Front Axle	1
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	2

Scope of Delivery:

KL-0214-148 Sleeve Set with Spindle and Nuts, Audi/Skoda/VW, Front Axle

Part No.	Description	Qty
KL-0214-141	Set of Sleeves, Audi/Skoda/VW, Front Axle	1
KL-0039-2012	Pull Spindle, M12, with Nuts	1
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1

Scope of Delivery:

KL-0214-141 Set of Sleeves, Audi/Skoda/VW, Front Axle

Part No.	Description	Qty
KL-0039-1640	Pressure/Support Sleeve, short, Ø 40mm	1
KL-0039-1750	Pressure/Support Sleeve, long, Ø 50mm	1

KL-0214-19

Pulling Device for Silentbloc with Hydraulic Cylinder, VW T5, Front Axle

Suitable for the two silentblocs (Ø 40.3 and 60mm) at the front axle wishbone on VW T5 vehicles.

Designed for the quick and safe removal and replacement of the two silentblocs on the specified wishbones. The possibility to easily upgrade the pulling device with parts of the **KL-0039-.. Series** allows for virtually universal applications. For example, the tool can also be used for changing suspension ball joints etc.

Scope of Delivery:

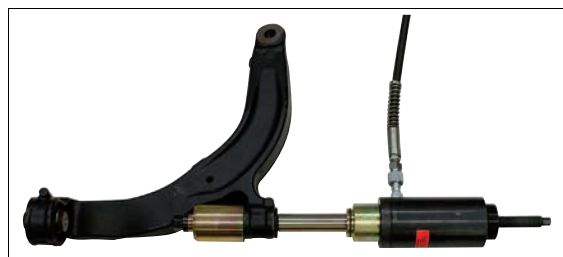
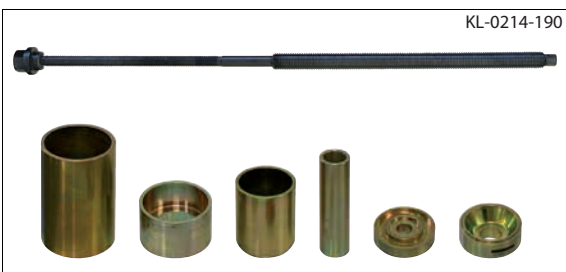
KL-0214-19 Pulling Device for Silentbloc with Hydr. Cyl., VW T5, Front Axle

Part No.	Description	Qty
KL-0214-190	Pulling Device for Silentbloc without Hydraulic Cylinder, VW T5	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery:

KL-0214-190 Pulling Device for Silentbloc, without Hydraulic Cylinder, VW T5

Part No.	Description	Qty
KL-0214-1901	Pressure Piece	1
KL-0214-1902	Support Sleeve (removal)	1
KL-0214-1903	Pressure Piece (installation)	1
KL-0039-1730	Pressure-/Support Sleeve, long, Ø 30mm	1
KL-0039-1772	Pressure-/Support Sleeve, long, Ø 72mm	1
KL-0039-1912	Pull Spindle, M12, with Nut	1



KL-0214-20

Pulling Device with Hydraulic Cylinder, VW Touareg

Designed for suspension strut mount silentblocs as found on VW Touareg front axle wishbones (with solid silentbloc for bore Ø of 46mm).

Enables the quick and safe removal and replacement of suspension strut mount silentblocs without the need for removing the wishbone from the vehicle.

Scope of Delivery:

KL-0214-20 Pulling Device with Hydraulic Cylinder, VW Touareg

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2552	Adaptor, M42x2 to Ø 30mm	1
KL-0214-200	Pulling Device without Hydraulic Cylinder	1

Scope of Delivery:

KL-0214-200 Pulling Device without Hydraulic Cylinder, VW Touareg

Part No.	Description	Qty
KL-0040-2543-5	Pull Spindle, M14 (Length 550mm)	1
KL-0040-2543-2	Shoulder Nut, M14	1
KL-0214-2005	Support Sleeve	1
KL-0214-2006	Support Sleeve	1
KL-0214-2007	Pressure Piece	1


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KL-0214-21

Pulling Device with Hydraulic Cylinder, VW Touareg

Designed for suspension strut mount silentblocs as found on VW Touareg front axle wishbones (split- or solid-type silentbloc, for bore Ø of 46mm).

Enables the quick and safe removal and replacement of suspension strut mount silentblocs without the need for removing the wishbone from the vehicle.

Scope of Delivery:

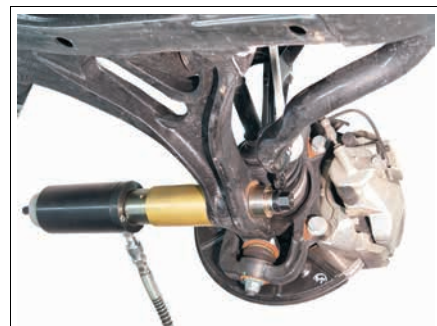
KL-0214-21 Pulling Device with Hydraulic Cylinder, VW Touareg

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2552	Adaptor, M42x2 to Ø 30mm	1
KL-0214-210	Pulling Device without Hydraulic Cylinder	1

Scope of Delivery:

KL-0214-210 Pulling Device without Hydraulic Cylinder, VW Touareg

Part No.	Description	Qty
KL-0040-2543-5	Pull Spindle, M14 (Length 550mm)	1
KL-0040-2543-2	Shoulder Nut, M14	1
KL-0214-2001	Conical Sleeve, Ø 46mm	1
KL-0214-2002	Spring-Loaded Pressure Piece, Ø 46mm	1
KL-0214-2003	Centring Ring, Ø 46mm	1
KL-0214-2004	Centring Ring, Ø 46mm	1
KL-0214-2005	Support Sleeve	1
KL-0214-2006	Support Sleeve	1
KL-0214-2007	Pressure Piece	1





KL-0214-22

Pulling Device with 17t Hydraulic Cylinder, for Double-Type Silentblocs

Application:

Audi A3 (8P1), 05/2003 onwards;
Audi TT (8J3, 8J9) from 08/2006 to 06/2010;
Seat Altea (5P5, 5P5, 5P8), 03/2004 onwards;
Seat Leon (1P1), 05/2005 onwards;
Seat Toledo III (5P2) from 04/2004 to 05/2009;
Škoda Octavia (1Z3, 1Z5) from 02/2004 to 12/2010;
VW Caddy III (2KA, 2KB, 2KH, 2KJ, 2CA, 2CB, 2CH, 2CJ) from 04/2004 to 08/2010;
VW EOS (1F7, 1F8), 06/2006 onwards;
VW Golf Plus (5M1, 521), 01/2005 onwards;
VW Golf V (1K1, 1K5) from 10/2003 to 2009;
VW Golf VI (5K1, AJ5), 10/2008 onwards;
VW Jetta III (1K2) from 08/2005 to 10/2010;
VW Touran (1T1, 1T2, 1T3), 08/2003 onwards;
VW Passat (3C2, 3C5,) from 03/2005 to 06/2010;
VW Passat (363, 365), 08/2010 onwards;
VW Scirocco (137), 05/2008 onwards;
VW Tiguan 5N, 09/2007 onwards.

The **KL-0214-22** pulling device allows the quick and safe removal and installation of assembly carrier double-type silentblocs to be performed in situ on the vehicle. Loosening or removing the assembly carrier from the vehicle as well as follow-up wheel alignments are not necessary.

Advantages:

- Substantial time and cost savings.
- Eliminates the need for releasing and removing the assembly carrier from vehicle.
- Eliminates the need for wheel alignment.
- All components are individually available as spare parts.

Scope of Delivery:

KL-0214-22 Pulling Device with 17t Hydr. Cyl., for Double-Type Silentblocs

Part No.	Description	Qty
KL-0214-220	Pulling Device for Double-Type Silentbloc, without Hydr. Cyl.	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1003	Retaining Adaptor for Hydraulic Cylinder	1

Scope of Delivery:

KL-0214-220 Pulling Device without Hydr. Cyl., for Double-Type Silentbloc

Part No.	Description	Qty
KL-0214-221	Pulling Device without Drive, for Double-Type Silentbloc	1
KL-0039-1912-1	Pull Spindle, M12	1
KL-0039-1912-3	Shoulder Nut, M12 (flat), waf 19mm	1

Scope of Delivery:

KL-0214-221 Pulling Device for Double-Type Silentbloc, without Drive

Part No.	Description	Qty.
KL-0214-2201	Pressure Piece, Ø 89.5mm	1
KL-0214-2202	Spacer Ring, Ø 30mm	1
KL-0214-2203	Setting Plate	1
KL-0214-2204	Conical Sleeve, Ø 90mm	1
KL-0214-2205	Support Sleeve, Ø 92.7mm	1
KL-0214-2207	Clamping Device	1
KL-0214-2206	Clamp with Screw	1

KL-0220-10 K

Fixing Tool Kit, VW Assembly Carrier

Suitable for assembly carriers/subframes found on VW-Audi, Seat and Škoda. For example, fitted to Audi A3 (8P), A4 (8E, 8H), TT (8J); VW EOS (1F), Fox (5Z), Golf Plus (1K), Golf V (1K), Jetta (1K), Passat (3C), Passat CC (357), Polo (9N), Scirocco (137), T5 (7J, 7H, 7E, 7F), Touareg (7C), Touran (1T, 9R); Seat Alhambra (71), Altea (5P), AlteaXL (5P), Ibiza (6J), Ibiza / Córdoba (6L), Leon (1P), León (5F), Toledo (5P), Toledo (KG3).

The tools allow for the professional installation/adjustment of assembly carriers (with fastening screws having an M12x1.5 or M14x1.5 thread). Necessary after maintenance work/repairs where the assembly carrier has been loosened/released, for example, after the replacement of silentblocs, wishbone etc.

Technical Data:

Max. tightening torque:	20Nm
Fixing bolt thread (KL-0220-101):	M12x1.5
Fixing bolt thread (KL-0220-102):	M14x1.5
Length:	M14x1.5
Drive:	6mm (hex socket)

Scope of Delivery:

KL-0220-10 K Fixing Tool Kit, VW Assembly Carrier

Part No.	Description	Qty
KL-0220-101	Fixing Bolt, M12x1.5	4
KL-0220-102	Fixing Bolt, M14x1.5	4
KL-0220-1090	Plastic Storage Case	1



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KL-0043-861 A

Pressing Device with Hydraulic Cylinder

Suitable for VW T4 front axle upper ball joint.

The KL-0043-861 A pressing device enables the specified upper ball joints to be removed and installed within just 30 minutes without the need for removing the upper wishbone from the vehicle.

Advantages:

- Substantial time savings (2-3 hours).
- Simple and precise use of the tool.
- All components are available individually as spare parts.

Scope of Delivery:

KL-0043-861 A Pressing Device with Hydraulic Cylinder, VW T4

Part No:	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
KL-0043-860 A	Pressing Device without Hydraulic Cylinder, VW T4	1

Scope of Delivery:

KL-0043-860 A Pressing Device without Hydraulic Cylinder, VW T4

Part No.	Description	Qty
KL-0043-8610	Press Frame	1
KL-0043-8691 A	Sleeve Set, VW T4	1

Scope of Delivery:

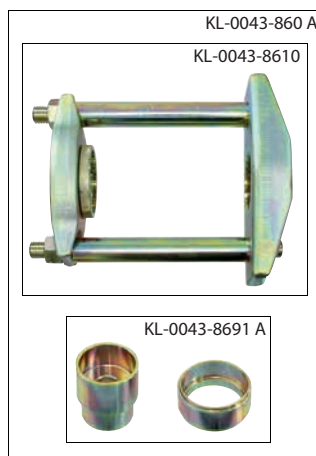
KL-0043-8610 Press Frame

Part No.	Description	Qty
KL-0039-1144	Base Plate, 2 1/4"-14 UNS	1
KL-0039-1144 V	Base Plate, 2 1/4"-14 UNS (reinforced design)	1
KL-0215-4004	Press Frame Rod	2
KL-0049-3004	Hex Nut, M18	4
KL-0043-8601	Adaptor, 2 1/4"-14 UNS to Ø 60mm	1

Scope of Delivery:

KL-0043-8691 A Sleeve Set, VW T4

Part No.	Description	Qty
KL-0043-8661	Lower Sleeve, VW T4	1
KL-0043-8662 A	Upper Sleeve, VW T4	1

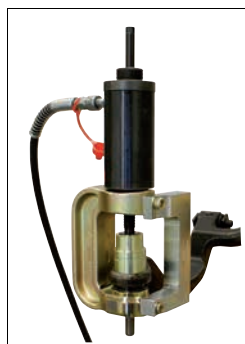
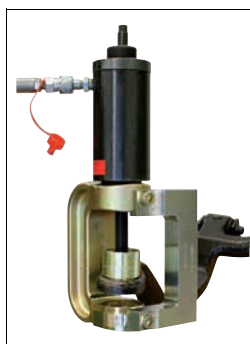




KL-0326-100 A



KL-0326-151



KL-0326-15

Hydraulic Press Tool Set, VW T4

Suitable for the front axle of VW T4, upper ball joint.

The **KL-0326-15** press tool set enables the upper ball joint to be removed and installed within just 30 minutes, without the need for removing the upper wishbone from the vehicle.

Advantages:

- Substantial time savings (2-3 hours)
- Precise and easy to use.
- All components are available individually as spare parts.
- Press frame **KL-0326-1000** is also suitable for use on Mercedes suspension ball joints.

Scope of Delivery:

KL-0326-15 Hydraulic Press Tool Set, VW T4

Part No.	Description	Qty
KL-0326-100 A	Hydraulic Press Frame	1
KL-0326-151	Sleeve Set, VW T4	1

Scope of Delivery:

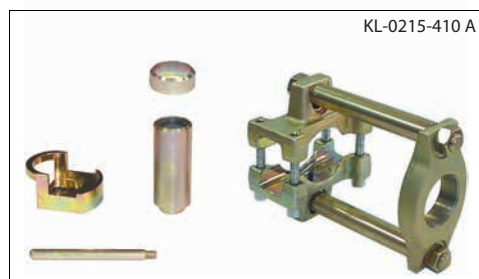
KL-0326-100 A Hydraulic Press Frame, Mercedes

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-ring	1

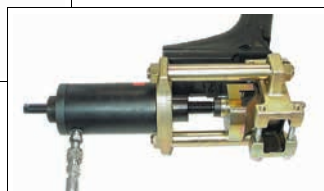
Scope of Delivery:

KL-0326-151 Sleeve Set VW T4

Part No.	Description	Qty
KL-0043-8662 A	Sleeve (upper) VW T4	1
KL-0326-1111	Adaptor Ring 1	1



KL-0215-410 A



KL-0215-41 A

Press Tool Set with Hydr. Cyl., Golf III

Suitable for silentbloc Ø 56mm, VW Golf III rear axle.

The press tool set **KL-0215-41 A** used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25** allows for quick, professional and safe removal and installation of the silentblocs at the rear axle. Even heavily corroded silentblocs can be pressed out and replaced within just a few minutes using this tool.

Scope of Delivery:

KL-0215-41 A Press Tool Set with Hydr. Cyl., Golf III

Part No.	Description	Qty
KL-0215-410 A	Press Tool Set without Drive, Golf III	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1

Scope of Delivery:

KL-0215-410 A Press Tool Set without Drive, Golf III

Part No.	Description	Qty
KL-0215-411	Frame (complete), Golf III	1
KL-0215-0017 A	Pressure Piece (for insertion), Golf III	1
KL-0215-0026 A	Pressure Piece (for extraction), Golf III	1
KL-0215-0027	Support Ring (for extraction), Golf III	1
KL-0039-1712	Guide Pin (long), 12mm	1

KL-0215-43

Press Tool Set, VW-Audi, Rear Axle Trailing Arm

Suitable for Audi A3 (8P), TT (8J); Seat Altea (5P), Leon (1P), Toledo (5P); Škoda Superb (3U), Oktavia (1Z); VW Eos, Golf V, Jetta III, Passat (3C), Tiguan and Touran rear axle trailing arm.

The press tool set **KL-0215-43** enables the professional and accurate removal and replacement of silentblocs on the rear axle trailing arm without the need for removing the latter from the vehicle.

Scope of Delivery: KL-0215-43 Press Tool Set with Hydraulic Cylinder

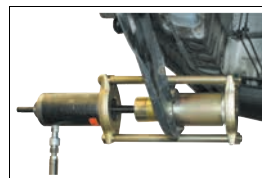
Part No.	Description	Qty
KL-0215-430	Press Tool Set without Hydr. Cyl., VW-Audi Rear Axle Trailing Arm	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery: KL-0215-430 Press Tool Set without Hydraulic Cylinder

Part No.	Description	Qty
KL-0215-431	Sleeve Set, VW-Audi Rear Axle Trailing Arm	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1
KL-0039-1140	Press Frame, short	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1

Scope of Delivery: KL-0215-431 Sleeve Set, VW-Audi Rear Axle Trailing Arm

Part No.	Description	Qty
KL-0039-1778	Pressure/Support Sleeve, long, Ø 78mm	1
KL-0039-1678	Pressure/Support Sleeve, short, Ø 78mm	1
KL-0215-4311	Thrust Piece, Golf V	1



4

KL-0215-52 A

Pulling Device for Silentbloc, VW-Audi, Rear Axle

Suitable for Audi A3; VW Bora, Beetle, Golf IV; Seat Leon, Toledo from 2001 onwards and Škoda Oktavia from 1997 onwards, rear axle.

For the quick, easy removal of the rubber-to-metal silentblocs (**KL-0215-522** with **KL-0040-2500** and **KL-0040-2552**). Can also be used for removing and installing the rubber-to-plastic silentblocs (**KL-0215-520** with **KL-0040-2500** and **KL-0040-2552**) at the rear axle.

Scope of Delivery: KL-0215-52 A Pulling Device for Silentbloc, with Hydr. Cyl.

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0215-520 A	Pulling Device for Silentbloc, without Hydr. Cyl., Audi A3, VW Golf IV rear axle	1

Scope of Delivery: KL-0215-520 A Pulling Device for Silentbloc, without Hydr. Cyl.

Part No.	Description	Qty
KL-0040-2552	Adaptor, M42X2 to Ø 30mm	1
KL-0215-520	Pulling Device for Silentbloc, without Hydraulic Cylinder	1
KL-0215-522	Upgrade Kit for Rubber-to-Metal Silentblocs, without Hydraulic Cylinder	1

Scope of Delivery: KL-0215-520 Pulling Device for Silentbloc, without Hydr. Cyl.

Part No.	Description	Qty
KL-0215-521	Pressure-/Support Sleeve Set (only for rubber-to-plastic silentblocs)	1
KL-0040-2542	Pull Spindle, M12, with Nut	1

Scope of Delivery: KL-0215-521 Pressure-/Support Sleeve Set, VW-Audi, rear axle

Part No.	Description	Qty
KL-0215-5201	Support Sleeve	1
KL-0215-5202	Clamping jaws (pair) with screws	1
KL-0215-5203	Press piece (removal)	1
KL-0215-5204	Support Sleeve (insertion)	1
KL-0215-5205	Press piece (insertion)	1

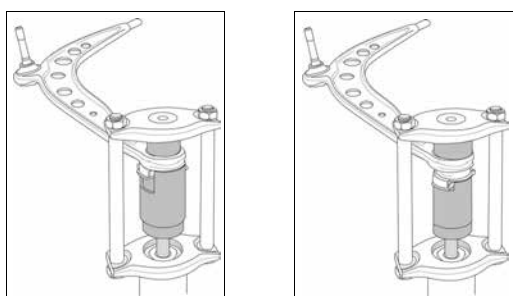
Scope of Delivery: KL-0215-522 Upgrade Kit for Rubber-to-Metal Silentblocs

Part No.	Description	Qty
KL-0215-523	Pressure-/Support Sleeve Upgrade Set	1
KL-0040-2512	Pull Spindle, M20	1
KL-0040-3009	Clamping Nut, M20	1

Scope of Delivery: KL-0215-523 Pressure-/Support Sleeve Upgrade Set

Part No.	Description	Qty
KL-0043-8569	Pressure-/Support Sleeve, short, Ø 44/36mm	1
KL-0215-5221	Pressure Sleeve (removal)	1
KL-0215-5222	Support Sleeve (removal)	1





KL-0039-762

Pressing Device with Hydraulic Cylinder, BMW E36

Designed for the BMW 3 Series (E36), front axle wishbone.

The **KL-0039-762** pressing device enables the quick and trouble-free removal and installation of the specified outer suspension ball joints that are found on the lower wishbone. The removal and replacement of the outer suspension ball joint can also be performed in situ on the vehicle within just a few minutes, with the wishbone in place.

Scope of Delivery:

KL-0039-762 Pressing Device with Hydraulic Cylinder, BMW E36

Part No.	Description	Qty
KL-0039-7620	Pressing Device without Hydraulic Cylinder, BMW E36	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery:

KL-0039-7620 Pressing Device without Hydraulic Cylinder, BMW E36

Part No.	Description	Qty
KL-0039-7623	Sleeve Set, BMW E36	1
KL-0039-1140	Press Frame (lightweight, short)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1

Scope of Delivery:

KL-0039-7623 Sleeve Set, BMW E36

Part No.	Description	Qty
KL-0043-8288-1	Pressure Sleeve for BMW E36	1
KL-0043-8289-1	Support Sleeve for BMW E36	1
KL-0039-1648	Pressure/Support Sleeve, short, Ø 48mm	1
KL-0039-1658	Pressure/Support Sleeve, short, Ø 58mm	1

KL-0515-1

Pulling Device for Silentbloc, BMW

Suitable for the BMW silentbloc on the rear subframe of E30 (3 Series models 1982-1990), E36 Compact / Z3, E28 (5 Series models 1981-1987), E34 (5 Series models 1988-1995), E32 (7 Series models 1986-1994).

Intended for use with mechanical drive. The tool set **KL-0515-1** enables the quick, professional and safe extraction and insertion of tightly fitting silentblocs in situ on the vehicle. With this tool, the removal of the rear subframe from the vehicle is no longer necessary.

Scope of Delivery: KL-0515-1 Pulling Device for Silentbloc, BMW

Part No.	Description	Qty
KL-0515-100	Pulling Device	1
KL-0515-1009	Spindle A	1
KL-0515-1010	Nut, M20	1
KL-0515-1011	Nut, M14	1
KL-0515-1015	Spindle E	1
KL-0035-0012	Axial Bearing	1
KL-0035-0013	Circlip SB42	1
KL-0515-1016	Bearing Insert	1

Scope of Delivery: KL-0515-100 Pulling Device for Silentbloc without drive BMW

Part No.	Description	Qty
KL-0515-1001	Bearing Cover	1
KL-0515-1002	Housing	1
KL-0515-1003	Support Ring S1	1
KL-0515-1004	Support Ring S2	1
KL-0515-1005	Support Ring S3	1
KL-0515-1006	Pressure Piece A1	1
KL-0515-1007	Pressure Piece A2	1
KL-0515-1008	Pressure Piece A3	1
KL-0515-1012	Pressure Piece E1	1
KL-0515-1013	Pressure Piece E2	1
KL-0515-1014	Pressure Piece E3	1

KL-0515-11

Pulling Device for Silentbloc, BMW

Suitable for the silentblocs on the rear subframe of BMW E30 (3 Series 1982-1990), E36 Compact / Z3

Intended for use with mechanical drive. The tool set **KL-0515-11** enables the quick, professional and safe extraction and insertion of tightly fitting silentblocs in situ on the vehicle. Using this tool, the removal of the rear subframe from the vehicle is no longer necessary.

Scope of Delivery:

KL-0515-11 Pulling Device for Silentbloc, BMW

Part No.	Description	Qty
KL-0515-110	Pulling Device without Drive, for Silentbloc, BMW E30	1
KL-0515-1009	Spindle A	1
KL-0515-1010	Nut, M20	1
KL-0515-1011	Nut, M14	1
KL-0515-1015	Spindle E	1
KL-0035-0012	Axial Bearing	1
KL-0035-0013	Circlip SB42	1
KL-0515-1016	Bearing Insert	1

Scope of Delivery:

KL-0515-110 Pulling Device without Drive, for Silentbloc, BMW

Part No.	Description	Qty
KL-0515-1001	Bearing Cover	1
KL-0515-1002	Housing	1
KL-0515-1003	Support Ring S1	1
KL-0515-1006	Pressure Piece A1	1
KL-0515-1012	Pressure Piece E1	1



KL-0515-2

Pulling Device with Hydraulic Cylinder, for Silentbloc, BMW E36

Suitable for BMW E36 (3 Series 1990-1998), rear subframe (except E36 Compact/Z3).

The **KL-0515-2** pulling device allows for the quick and safe removal and replacement of all those silentblocs (also differential silentblocs) that are found on the specified rear subframes.

Using this tool, the removal of the rear subframe from the vehicle is not necessary.

Advantages:

- Substantial time savings can be achieved as there is no need for removing the subframe.
- Accurate removal and insertion of the silentblocs - thanks to the **KL-0040-2500** hydraulic cylinder that comes with the tool kit.

Scope of Delivery:

KL-0515-2 Pulling Device with Hydr. Cylinder, for Silentbloc, BMW E36

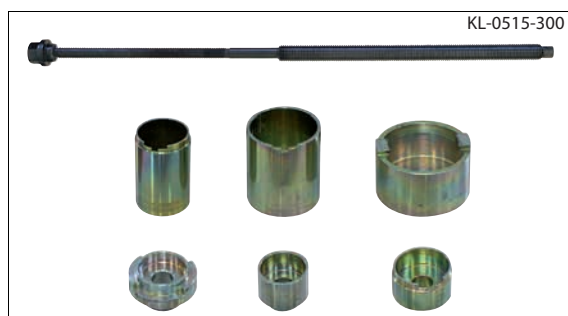
Part No.	Description	Qty
KL-0515-200	Pulling Device without Hydr. Cylinder, for Silentbloc	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery:

KL-0515-200 Pulling Device without Hydr. Cylinder, for Silentbloc, BMW E36

Part No.	Description	Qty
KL-0515-2001	Support Sleeve	1
KL-0515-2002	Pressure Piece	1
KL-0515-2003	Support Sleeve	1
KL-0515-2004	Pressure Piece	1
KL-0515-2005	Support Sleeve	1
KL-0515-2006	Support Sleeve	1
KL-0515-2007	Pressure Piece	1
KL-0515-2008	Support Sleeve	1
KL-0515-2009	Pressure Piece	1
KL-0039-1912-1	Pull Spindle, M12	1
KL-0350-2007	Hex Shoulder Nut, M12	1





KL-0515-3

Pulling Device with Hydraulic Cylinder, BMW, Rear Axle

Suitable for BMW E36, E46 (3 Series) Limousine, Touring and Convertible rear axle trailing arm (not suitable for E36 Compact / Z3).

Silentblocs and joint bushes on the rear axle trailing arm can be extracted and inserted within just a few minutes by using the pulling device **KL-0515-3**. Even corroded/seized silentblocs are no longer an issue. The extraction and insertion of the aluminium silentblocs of the earlier version "I" (E36) as well as of the latest split steel version "II" (E36, E46) are possible. The work can be carried out without having to remove the rear axle trailing arm from the vehicle.

Scope of Delivery:

KL-0515-3 Pulling Device with Hydraulic Cylinder, BMW Rear Axle

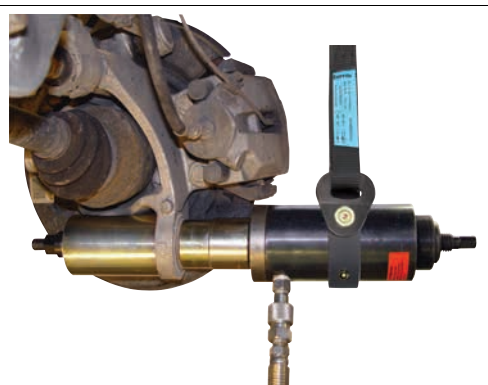
Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0515-300	Pulling Device without Hydraulic Cylinder, BMW Rear Axle	1

Scope of Delivery:

KL-0515-300 Pulling Device without Hydraulic Cylinder for BMW Rear Axle

Part No.	Description	Qty
KL-0515-3001	Support Sleeve ("earlier version" silentbloc)	1
KL-0515-3002	Support Sleeve ("latest version" silentbloc)	1
KL-0515-3003	Pressure Piece	1
KL-0515-3004	Support Sleeve	1
KL-0515-3005	Pressure Piece	1
KL-0515-3006	Support Sleeve (insertion)	1
KL-0040-2542	Pull Spindle, M12, with Nut	1

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KL-0515-4 A

Pulling Device with Hydraulic Cylinder, BMW, Rear Axle

Suitable for BMW rear axle joint bushes; e.g. as installed in BMW 5 Series (E39; E60, E61), X5 (E53) and 7 Series (E38).

Used in conjunction with a hydraulic pump, the **KL-0515-4 A** pulling device allows for the easy, professional and trouble-free extraction and insertion of the lower joint bush on the wheel bearing housing without having to remove the latter from the vehicle.

Advantages:

- Substantial time savings of approx 1-2 hours.
- Tool is easy to use.
- The **KL-0040-2500** hydraulic cylinder (17t) can universally be used on other GEDORE Automotive tools.

Scope of Delivery:

KL-0515-4 A Pulling Device with Hydraulic Cylinder, BMW Rear Axle

Part No.	Description	Qty
KL-0515-400 A	Pulling Device without Hydraulic Cylinder, BMW Rear Axle	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1

Scope of Delivery:

KL-0515-400 A Pulling Device without Hydraulic Cylinder, BMW Rear Axle

Part No.	Description	Qty
KL-0515-4001 B	Support Sleeve (removal)	1
KL-0515-4002 A	Pressure Piece (removal)	1
KL-0515-4003 B	Support Sleeve (installation)	1
KL-0515-4004 A	Pressure Sleeve (installation)	1
KL-0039-1914-5	Pull Spindle, M14 (short design)	1
KL-0039-1914-2	Shoulder Nut, M14	1

KL-0515-50

Pulling Device with Hydraulic Cylinder, BMW E39

Suitable for BMW E39 (5 Series) Limousine and Touring rear subframe.

The pulling device **KL-0515-50** enables the quick and safe removal and installation of the silentblocs at the rear subframe. Using this tool, the removal of the rear subframe from the vehicle is no longer necessary.

Scope of Delivery:

KL-0515-50 Pulling Device with Hydraulic Cylinder, BMW E39

Part No.	Description	Qty
KL-0515-500	Pulling Device without Hydraulic Cylinder, BMW E39	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2590	Safety Belt for Hydr. Cylinder KL-0040-2500	1

Scope of Delivery:

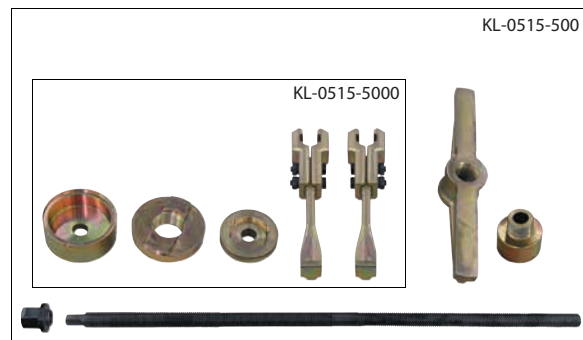
KL-0515-500 Pulling Device without Hydraulic Cylinder, BMW E39

Part No.	Description	Qty
KL-0041-3801	Bridge	1
KL-0515-5002	Adaptor, M42x2 to M34x1.5	1
KL-0040-2545-1	Pull Spindle, M18	1
KL-0040-2545-3	Shoulder Nut, M18	1
KL-0515-5000	Hook/Pressure Piece Set	1

Scope of Delivery:

KL-0515-5000 Hook/Pressure Piece Set

Part No.	Description	Qty
KL-0515-5003	Hook (1 pc) with clamp	2
KL-0515-5004	Pressure Piece (extraction)	1
KL-0515-5005	Pressure Piece (insertion)	1
KL-0515-5006	Support Sleeve (insertion)	1

**4**

KL-0515-501

Upgrade Kit for BMW X5

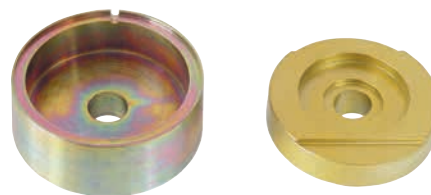
Specially designed for BMW X5.

Used in conjunction with the pulling device **KL-0515-50**, the kit allows for the removal and replacement of the silentblocs at the rear subframe.

Scope of Delivery:

KL-0515-501 Upgrade Kit for BMW X5

Part No.	Description	Qty
KL-0515-5011	Pressure Piece (extraction)	1
KL-0515-5012	Support Sleeve (insertion)	1





KL-0326-10 A

Hydraulic Press Tool Set, Mercedes

Suitable for Mercedes W201 (190 Series), W124 (E-Class), W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) front axle, and W163 (M-Class) front and rear axle.

The **KL-0326-10 A** hydraulic press tool set is designed to press in/press out the suspension ball joints found on the lower wishbone. With some applications, the removal and installation of the suspension ball joint can also be carried out in situ on the vehicle, without having to dismount the wishbone.

Scope of Delivery:

KL-0326-10 A Hydraulic Press Tool Set, Mercedes

Part No.	Description	Qty
KL-0326-100 A	Hydraulic Press Frame	1
KL-0326-112 A	Set of Sleeves (W163/W211/W219/W220/W230)	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm (installation W124, W201)	1
KL-0326-1311	Pressure Ring 3 (removal W124, W201)	1

Scope of Delivery:

KL-0326-100 A Hydraulic Press Frame, Mercedes

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-ring	1

Scope of Delivery:

KL-0326-1000 Press Frame

Part No.	Description	Qty
KL-0326-1001	Press Frame	1
KL-0326-1002 B	Stabilising Bracket	1
KL-0326-1003 B	Cheese Head Screw, M12x20mm	2

Scope of Delivery:

KL-0326-101 A Hydraulic Press Tool Set without Drive, Suspension Ball Joint

Part No.	Description	Qty
KL-0326-1000	Press Frame (without drive and sleeves)	1
KL-0326-112 A	Set of Sleeves (W163/W211/W219/W220/W230)	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm (installation W124/W201)	1
KL-0326-1311	Pressure Ring (removal W124/W201)	1

Scope of Delivery:

KL-0326-102 A Hydraulic Press Tool Set without Drive, Suspension Ball Joint

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0326-112 A	Set of Sleeves (W163/W211/W219/W220/W230)	1

Scope of Delivery:

KL-0326-112 A Sleeve Set, Mercedes W163/W211/W219/W220/W230

Part No.	Description	Qty
KL-0326-1111	Support Ring 1, with O-Ring	1
KL-0326-1211	Support Ring 4, with O-Ring	1
KL-0039-1634	Pressure/Support Sleeve, short, Ø 34mm	1
KL-0039-1642	Pressure/Support Sleeve, short, Ø 42mm	1
KL-0039-1650	Pressure/Support Sleeve, short, Ø 50mm	1
KL-0326-1313 A	Pressure/Support Sleeve, Ø 60/52mm	1

Overview table

Applications:	Hydraulic Press Tool Set	consisting of	
		Hydraulic Press Frame	Sleeve Set
Mercedes W163 (M-Class)	KL-0326-11 A	KL-0326-100 A	KL-0326-111 A
Mercedes W211 (E-Class), W219 (CLS), W220 (S-Class) and W230 (SL)	KL-0326-12 A	KL-0326-100 A	KL-0326-121 A
Mercedes W124, W201 (190er)	KL-0326-13 A	KL-0326-100 A	KL-0326-131 A
Mercedes W211 (E-Class 2002 onwards), W219 (CLS), W220 (S-Class) and W230 (SL) front axle	KL-0326-14	KL-0326-100 A	KL-0326-141

For more Information see Chapter 2, Page 53 to 54.

KL-0326-160 K

Hydraulic Press Tool Set,

without Hydraulic Cylinder, in a Plastic Storage Case

Applicable to: Mercedes W201 (190 Series), W124 (E-Class), W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) and VW T4 (suspension ball joints, front axle) and Mercedes W163 (M-Class) (suspension ball joints, front and rear axle), Mercedes W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) (upper ball joint, front axle).

The **KL-0326-160 K** hydraulic press tool set is designed to be used in conjunction with a hydraulic pump such as the **KL-0215-35 M25** and hydraulic cylinder **KL-0040-2500**, thus enabling lower and upper ball joints to be pressed into and pressed out of the lower wishbone quickly and without any trouble. Removal and installation of the suspension ball joints can sometimes also be carried out in situ on the vehicle within just a few minutes without the need for dismantling the wishbone.

Advantages:

- Enables the quick, easy and professional removal and installation of suspension ball joints.
- This tool set of the GEDORE Automotive Modular System can be further enhanced with additional tools - making it suitable for a wide range of applications.
- All components are available individually as spare parts.

Scope of Delivery:

KL-0326-160 K Hydraulic Press Tool Set, without Hydraulic Cylinder

Part No.	Description	Qty
KL-0326-160 E	Hydraulic Press Tool Set, without Hydr. Cylinder, in a Foam Insert	1
KL-4999-1393	Plastic Storage Case	1

Scope of Delivery:

KL-0326-160 E Hydraulic Press Tool Set, without Hydr. Cylinder, in a Foam Insert

Part No.	Description	Qty
KL-0326-160	Hydraulic Press Tool Set, without Hydraulic Cylinder	1
KL-4999-1319	Foam Insert	1

Scope of Delivery:

KL-0326-160 Hydraulic Press Tool Set, without Hydraulic Cylinder

Part No.	Description	Qty
KL-0326-161	Hydraulic Press Tool Set, without Drive	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1

Scope of Delivery:

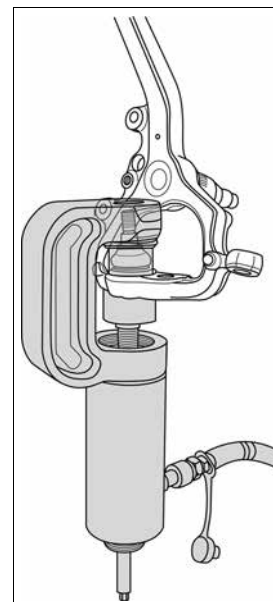
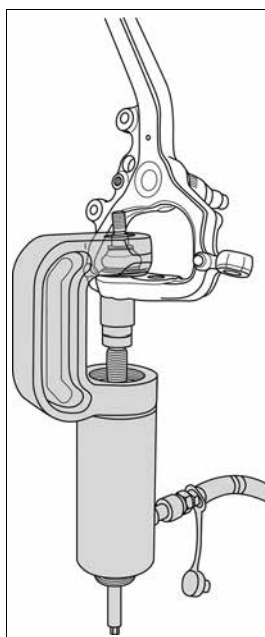
KL-0326-161 Hydraulic Press Tool Set, without Drive

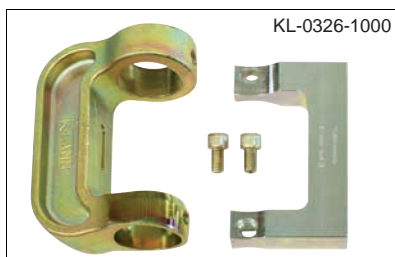
Part No.	Description	Qty
KL-0039-1634	Pressure/Support Sleeve, short, Ø 34/26mm	1
KL-0039-1640	Pressure/Support Sleeve, short, Ø 40/32mm	1
KL-0039-1642	Pressure/Support Sleeve, short, Ø 42/34mm	1
KL-0039-1650	Pressure/Support Sleeve, short, Ø 50/42mm	1
KL-0043-8662 A	Sleeve (top), VW T4	1
KL-0326-1000	Press Frame	1
KL-0326-1111	Adaptor Ring 1, with O-Ring	1
KL-0326-1311	Adaptor Ring 3, with O-Ring	1
KL-0326-1312 A	Adaptor Ring 4	1
KL-0326-1313 A	Pressure/Support Sleeve, Ø 60/52mm	1
KL-0326-1314	Pressure/Support Sleeve, Ø 56/48mm	1
KL-0326-1411	Adaptor Ring 5, with O-Ring	1
KL-0350-5102	Pressure Sleeve	1



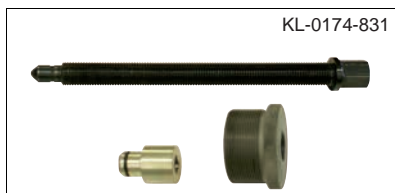
KL-0326-160 E

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KL-0326-1000



KL-0174-831



KL-0326-108

Mechanical Press Frame

Compatible with the sleeve sets of the KL-0326-... Series.

A mechanical alternative to KL-0326-100 A.

The press frame comes with a mechanical drive. Used in conjunction with the corresponding sleeve set, it allows the quick and easy removal and installation of suspension ball joints to be carried out in situ on the vehicle without the need for dismantling the wishbone. THE ideal tool for Mercedes vehicles.

Scope of Delivery: KL-0326-108 Mechanical Press Frame

Part No.	Description	Qty
KL-0326-1000	Press Frame	1
KL-0174-831	Mechanical Drive Set	1

Scope of Delivery: KL-0326-1000 Press Frame

Part No.	Description	Qty
KL-0326-1001	Press Frame	1
KL-0326-1002 B	Stabilising Bracket	1
KL-0326-1003 B	Cheese Head Screw, M12x20mm	2

Scope of Delivery: KL-0174-831 Mechanical Drive Set

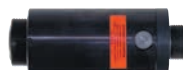
Part No.	Description	Qty
KL-0174-620	Spindle, M20x2x230mm	1
KL-0174-547	Adaptor, 2 1/4"-14 UNS to M20x2	1
KL-0174-853	Thrust Piece for Mechanical Spindle	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



4



KL-0039-7520



KL-0039-7523



KL-0039-752

Pressing Device with Hydraulic Cylinder, Mercedes 190 Series (W201), W124, W129

Suitable for the Mercedes 190 Series (W201) W124 and W129, suspension ball joint at the front lower wishbone.

Used in conjunction with a hydraulic pump such as KL-0215-35 M25, the KL-0039-752 pressing device enables suspension ball joints to be quickly and easily pressed into/ and out of the lower wishbone. Removal and installation of the specified ball joint can be carried out in situ on the vehicle within just a few minutes, without the need for dismantling the wishbone.

Scope of Delivery:

KL-0039-752 Pressing Device with Hydraulic Cylinder

Part-No.	Description	Qty
KL-0039-7520	Pressing Device without Hydraulic Cylinder, Mercedes	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery:

KL-0039-7520 Pressing Device without Hydraulic Cylinder

Part-No.	Description	Qty
KL-0039-7523	Sleeve Set, Mercedes	1
KL-0039-1140	Press Frame (lightweight, short)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350	1

Scope of Delivery:

KL-0039-7523 Sleeve Set, Mercedes 190 Series (W201), W124, W129

Part-No.	Description	Qty
KL-0039-1636	Pressure/Support Sleeve, short, Ø 36mm	1
KL-0039-1658	Pressure/Support Sleeve, short, Ø 58mm	1
KL-0039-1760	Pressure/Support Sleeve, long, Ø 60mm	1

KL-0039-750 (Pat. e.g. US-Patent 7,020,944)

Pressing Device with Hydraulic Cylinder, Mercedes Sprinter/VW LT (2D)

Designed to change suspension ball joints on Mercedes Sprinter (901-904) models from 1995-2006 and on VW LT (2D) models from 1996-2006.

Used in conjunction with the hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the pressing device **KL-0039-750** enables the quick and trouble-free pushing out and pressing in of the suspension ball joints on the lower wishbone. Removal and installation of the ball joints can be performed in situ on the vehicle within a just few minutes, without having to dismantle the wishbone.

Note:

Mercedes Sprinter and VW LT are fitted with two different wishbones with two different suspension ball joints.

Scope of Delivery:

KL-0039-750 Pressing Device with Hydr. Cyl., Mercedes Sprinter/VW LT (2D)

Part-No.	Description	Qty
KL-0039-7500	Pressing Device without Hydraulic Cylinder, Mercedes Sprinter	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery:

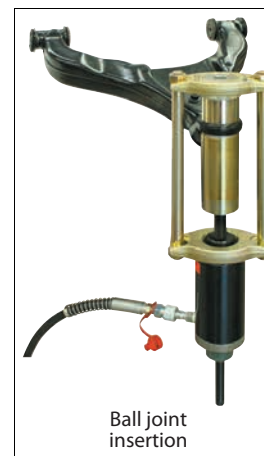
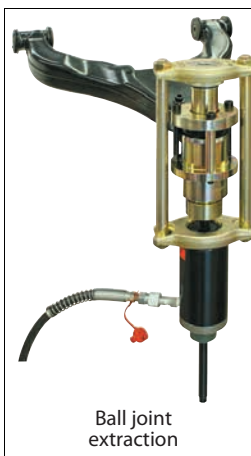
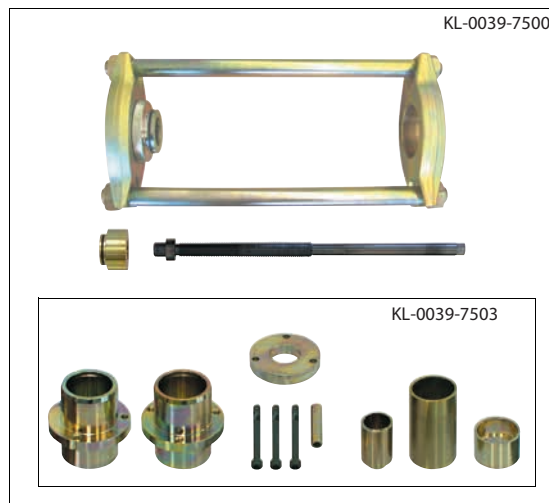
KL-0039-7500 Pressing Device without Hydr. Cyl., Mercedes Sprinter/VW LT (2D)

Part No.	Description	Qty
KL-0039-7503	Sleeve Set, Mercedes Sprinter	1
KL-0039-1140	Press Frame, (lightweight, short)	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1

Scope of Delivery:

KL-0039-7503 Sleeve Set, Mercedes Sprinter/VW LT (2D)

Part No.	Description	Qty
KL-0039-1823	Support Sleeves with Clamping Disc for Mercedes Sprinter	1
KL-0039-1662	Pressure/Support Sleeve, short, Ø 62mm	1
KL-0039-1762	Pressure/Support Sleeve, long, Ø 62mm	1
KL-0039-1824	Pressure Sleeve	1



KL-0039-7535 (Pat. e.g. US-Patent 7,020,944)

Upgrade Kit for KL-0039-750, Mercedes Sprinter (W906)/VW Crafter (2E/2F)

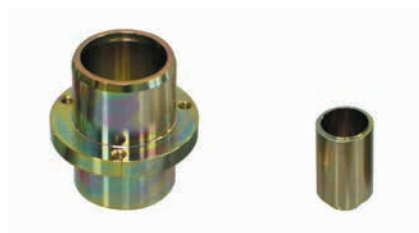
Suitable for Mercedes Sprinter (W906) from 2006 onwards and VW Crafter (2E/2F) from 2006 onwards, suspension ball joints on the front lower wishbone.

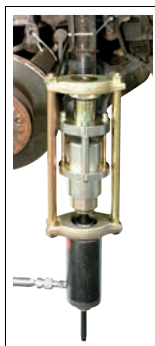
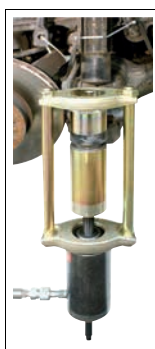
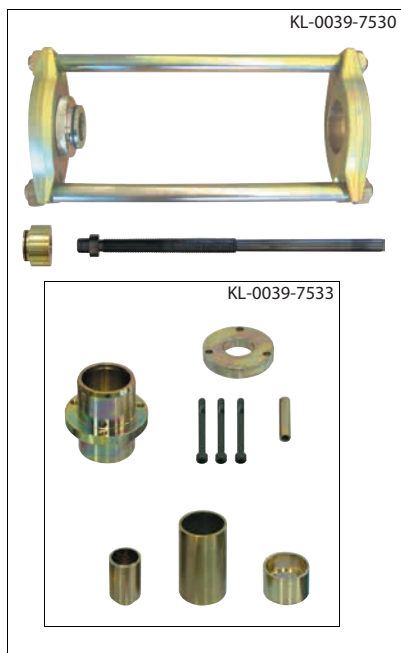
The upgrade kit **KL-0039-7535** enables the pressing device **KL-0039-750** also to be used on Mercedes Sprinter (W906) models from 2006 onwards and VW Crafter (2E/2F) models from 2006 onwards.

Scope of Delivery:

KL-0039-7535 Upgrade Kit for KL-0039-750

Part No.	Description	Qty
KL-0039-1828-1	Support Sleeve for Shoulder Ø 60mm	1
KL-0039-1829	Pressure Sleeve	1





KL-0039-753

(Patented)

Pressing Device with Hydraulic Cylinder, Mercedes Sprinter (W906)/VW Crafter (2E/2F)

Suitable for Mercedes Sprinter (W906) from 2006 onwards and VW Crafter (2E/2F) from 2006 onwards, suspension ball joint on the front lower wishbone.

Used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the **KL-0039-753** pressing device, enables suspension ball joints to be pressed into and pressed out from the lower wishbone quickly and without any trouble. Removal and installation of the suspension ball joints can be carried out in situ on the vehicle.

Scope of Delivery: KL-0039-753 Pressing Device with Hydraulic Cylinder

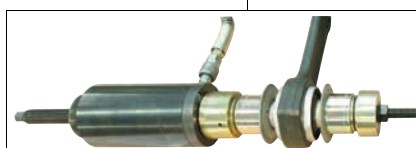
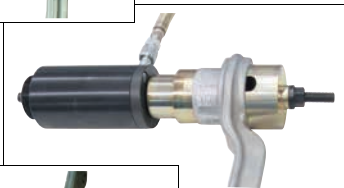
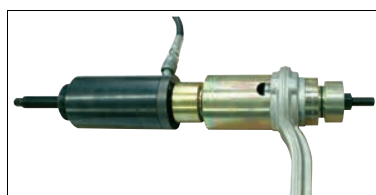
Part No.	Description	Qty
KL-0039-7530	Pressing Device without Hydraulic Cylinder, MB Sprinter	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery: KL-0039-7530 Pressing Device without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-7533	Sleeve Set, Mercedes Sprinter, (W906)/VW Crafter (2E/2F)	1
KL-0039-1140	Press Frame, lightweight, short	1
KL-0039-1002	Retaining Adaptor for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm	1

Scope of Delivery: KL-0039-7533 Sleeve Set

Part No.	Description	Qty
KL-0039-7534	Support Sleeve with Clamping Washer	1
KL-0039-1829	Pressure Sleeve	1
KL-0039-1762	Pressure Sleeve, Ø 62mm, long	1
KL-0039-1662	Support Sleeve, Ø 62mm, short	1



KL-0350-50 B

Pulling Device for Silentbloc, Mercedes W220/W211/W203

Suitable for Mercedes C-Class (W203), E-Class (W211) and S-Class (W220), front axle.

Designed for the fast and safe extraction and insertion of silentblocs at the wishbone and thrust rod (W171, W203, W209 and W211) as well as at the wishbone (W220).

Scope of Delivery: KL-0350-50 B Pulling Device for Silentbloc

Part No.	Description	Qty
KL-0350-500 B	Pulling Device without Hydraulic Cylinder, for Silentbloc	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1

Scope of Delivery: KL-0350-500 B Pulling Device without Hydraulic Cylinder

Part No.	Description	Qty
KL-0350-501 B	Sleeve Set, Mercedes W220/W211/W203 (Silentbloc)	1
KL-0350-502 A	Sleeve Set, Mercedes W220/W211 (Aluminium washers)	1
KL-0039-1914	Pull Spindle, M14, with Nut	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1

Scope of Delivery: KL-0350-501 B Sleeve Set, Silentbloc

Part No.	Description	Qty
KL-0350-5001	Support Sleeve, 80mm	1
KL-0350-5004	Pressure Piece	1
KL-0215-5503	Pressure Sleeve (removal)	1

Scope of Delivery: KL-0350-502 A Sleeve Set (Aluminium Washers)

Part No.	Description	Qty
KL-0039-1650	Pressure/Support sleeve, short, Ø 50mm	2
KL-0350-5003	Pressure Sleeve	1

KL-0350-511 A

Sleeve Set with Adaptors, Mercedes W220/W211

Suitable for Mercedes W220 (S-Class) and W211 (E-Class), front axle.

The ball joint in control arms (W211 - E-Class) or wishbones (W220 - S-Class) can easily and safely be installed and removed by using the **KL-0350-511 A** sleeve set in conjunction with a hydraulic bench press.

Advantages:

- Time savings of approx. 1-3 hours.
- The tool is easy to operate.

Scope of Delivery:

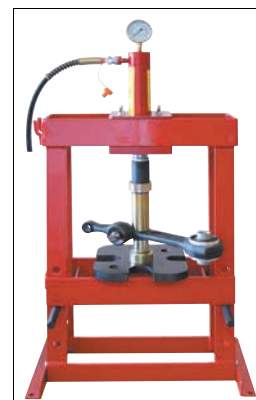
KL-0350-511 A Sleeve Set with Adaptors, Mercedes W220/W211

Part No.	Description	Qty
KL-0350-510 A	Sleeve Set, Mercedes W220/W211	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	2

Scope of Delivery:

KL-0350-510 A Sleeve Set, Mercedes W220/W211

Part No.	Description	Qty
KL-0350-5101	Support Sleeve	1
KL-0350-5102	Pressure Sleeve	1
KL-0039-1640	Pressure/Support Sleeve, short, Ø 40mm	1



KL-0350-1

Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes W202

Suitable for Mercedes W202 (C-Class) and W170 (SLK), front axle.

The **KL-0350-1** pulling device allows both the split-type front silentbloc as well as the solid-type rear silentbloc to be quickly, easily and safely replaced on the front lower wishbone. Removal of the wishbone from the car is not necessary.

The hydraulic cylinder **KL-0040-2500**, used with the appropriate adaptors, makes work easier, especially when silentblocs are very tight-fitting or severely corroded/seized in place.

Scope of Delivery:

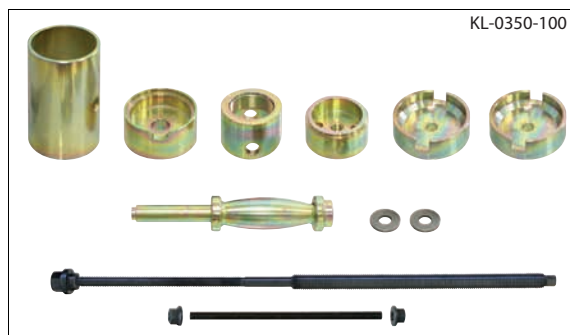
KL-0350-1 Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes W202

Part No.	Description	Qty
KL-0350-100	Pulling Device for Silentbloc (MB W202)	1
KL-0040-2500	Hydraulic Cylinder 17 t	1

Scope of Delivery:

KL-0350-100 Pulling Device for Silentbloc, Mercedes W202

Part No.	Description	Qty
KL-0350-1001	Support Sleeve (removal)	1
KL-0350-1002	Pressure Piece (removal)	1
KL-0350-1003	Pressure Piece (installation)	1
KL-0350-1004	Support Sleeve (installation)	1
KL-0039-1912-1	Pull Spindle, M12	1
KL-0040-2542-2	Shoulder Nut, M12	1
KL-0350-1101	Mandrel	1
KL-0350-1102	Pressure Piece	2
KL-0350-0008	Thread Spindle, M10x230mm	1
KL-0350-0009	Hex Shoulder Nut, M10	2
KL-0350-0010	Disc, Ø 10mm	2





KL-0350-2

Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes W210

Suitable for Mercedes W210 (E-Class) front axle.

For the easy replacement of both the split-type front silentbloc and solid-type rear silentbloc on the front lower wishbone. Removal of the wishbone from the car is not necessary using this tool.

Technical Data:

Max. load capacity of thread spindle:	5t
Max. load capacity of pull spindle:	7t
Max. load capacity of hydraulic cylinder:	17t

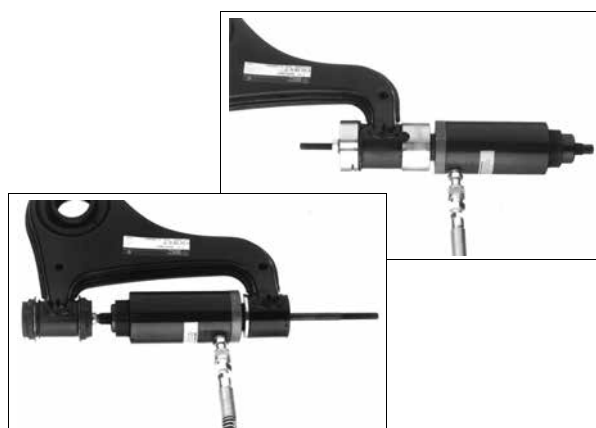
Scope of Delivery: KL-0350-2 Pulling Device with Hydraulic Cylinder, Silentbloc

Part No.	Description	Qty
KL-0350-200	Pulling Device without Hydraulic Cylinder, Silentbloc	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery: KL-0350-200 Pulling Device without Hydr. Cylinder, Silentbloc

Part No.	Description	Qty
KL-0350-2001	Support Sleeve (removal)	1
KL-0350-2002	Set of Supporting Segments (3-pc.)	1
KL-0350-2004	Pressure Piece (removal)	1
KL-0350-2005	Support Sleeve (installation)	1
KL-0350-2006	Pressure Piece (installation)	1
KL-0040-2542-2	Shoulder Nut, M12	1
KL-0039-1912-1	Pull Spindle, M12	1
KL-0350-2102	Guide Sleeve	1
KL-0350-2103	Pressure Piece (removal)	1
KL-0350-2104	Pressure Piece	2
KL-0350-0008	Thread Spindle, M10x230mm	1
KL-0350-0009	Hex Shoulder Nut, M10	2
KL-0350-0010	Disc, Ø 10mm	2
KL-0350-2010	Pressure Piece (removal)	1

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KL-0350-60

Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes Vito/Viano, Rear Axle

Suitable for Mercedes Vito/Viano (W639) from 2003 onwards, rear axle trailing arm.

Silentblocs on the rear axle trailing arm can be removed and installed without any trouble thanks to the pulling device **KL-0350-60** which is used in conjunction with hydraulic pump **KL-0215-35 M25**.

Scope of Delivery: KL-0350-60 Pulling Device with Hydraulic Cylinder, Silentbloc

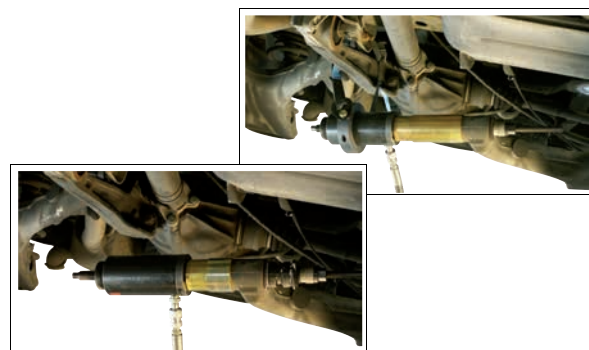
Part No.	Description	Qty
KL-0350-600	Pulling Device without Hydraulic Cylinder	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery: KL-0350-600 Pulling Device without Hydraulic Cylinder

Part No.	Description	Qty
KL-0350-601	Set of Sleeves, Mercedes Vito/Viano, Rear Axle	1
KL-0039-1914	Pull Spindle, M14, with Nut	1

Scope of Delivery: KL-0350-601 Set of Sleeves, Mercedes Vito/Viano, Rear Axle

Part No.	Description	Qty
KL-0039-1764	Pressure-/Support Sleeve (long) Ø 64/56mm	1
KL-0039-1664	Pressure-/Support sleeve (short) Ø 64/56mm	1
KL-0039-1333	Centring Ring, Ø 33mm	1



KL-0352

Pulling Device for Rubber Bushes, Mercedes

Suitable for use on inner rubber bushes as found on the lower wishbone at the rear axle of Mercedes W201 and W124.

The pulling device **KL-0352** allows for the quick and accurate replacement of the inner rubber bushings on the lower rear wishbone. This tool is not intended for use with silentbloc-type bushes (rubber to metal bushes).

Scope of Delivery: KL-0352 Pulling Device for Rubber Bushes, Mercedes

Part No.	Description	Qty
KL-0352-0001	Housing (open)	1
KL-0352-0002	Guide Sleeve	1
KL-0352-0003	Thrust Piece	1
KL-0352-0004	Axial Bearing	1
KL-0016-0006	Circlip SB 26	1
KL-0352-0006	Hex Shoulder Nut	1
KL-0352-0007	Spindle, M12x210mm	1



KL-0043-11 B

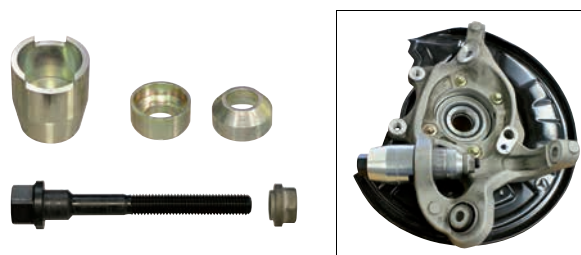
Pulling Device for Joint Bush, Mercedes

Suitable for Mercedes W124, 190 Series (W201), C-Class (W202, W203, W204), CLK (W208, W209), E-Class (W210) and S-Class (W140), rear axle.

The **KL-0043-11 B** pulling device enables the fast, simple and safe removal and installation of the joint bushes that are found on rear axle wheel bearing housings, without the need for removing the latter from the vehicle.

Scope of Delivery: KL-0043-11 B Pulling Device for Joint Bushes, Mercedes

Part No.	Description	Qty
KL-0043-110 A	Housing	1
KL-0043-1102	Spindle	1
KL-0043-1003	Thrust Piece	1
KL-0043-1104	Thrust Piece	1
KL-0043-1105	Shoulder Nut, M14	1



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet 
1 B - Combination Spanner UD-Profil 

KL-0352-1 B

Pulling Device for Joint Bush, Mercedes

Suitable for Mercedes C-Class (W202, W203, W204), CLK (W208, W209), E-Class (W210), W124, W140 and W201, rear axle.

The **KL-0352-1 B** pulling device, which is used in conjunction with a hydraulic pump such as the **KL-0215-35 M25** pump, allows for the fast, simple and safe removal and installation of the joint bushes found at the specified rear axle wheel bearing housings without the need for removing the latter from the vehicle. Even severely seized or corroded joint bushes are no longer an issue using the **KL-0040-2500** Hydr. Cyl. (17t).

Advantages:

- Substantial time savings.
- The tool is easy to operate.
- The 17t hydraulic cylinder **KL-0040-2500** can universally be used on other GEDORE Automotive tools to exert pulling or pushing force.

Technical Data:

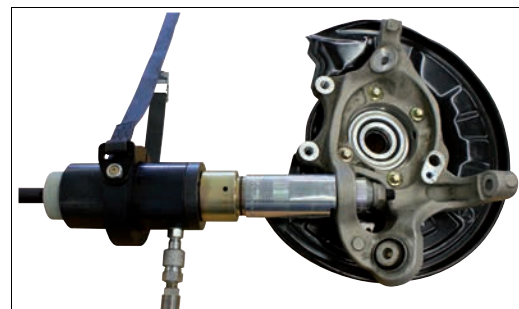
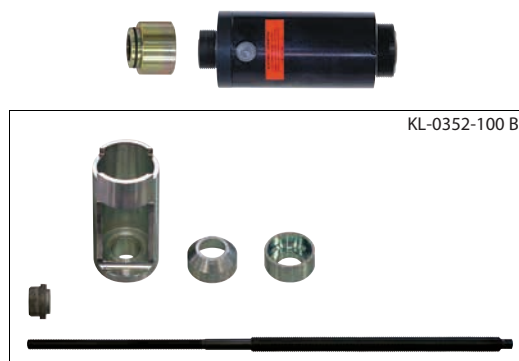
Weight:	7.6kg
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Scope of Delivery: KL-0352-1 B Pulling Device with Hydr. Cyl., Joint Bush

Part No.	Description	Qty
KL-0352-100 B	Pulling Device without Hydraulic Cylinder, Joint Bush, Mercedes	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery: KL-0352-100 B Pulling Device without Hydr. Cyl., Joint Bush

Part No.	Description	Qty
KL-0352-1001	Support Sleeve	1
KL-0043-1003	Pressure Piece	1
KL-0043-1104	Pressure Piece	1
KL-0043-1105	Shoulder Nut, M14	1
KL-0039-1914-1	Pull Spindle, M14	1





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KL-0352-3

Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes W204/W211

Suitable for Mercedes C Class (W204) and E Class (W211), rear axle.

The **KL-0352-3** pulling device is used in conjunction with a hydraulic pump, for example the **KL-0215-35 M26**, thus allowing the easy, quick and safe removal and installation of thrust rod silentblocs on rear axle wheel bearing housings to be performed without the need for removing the latter from the vehicle. Even silentblocs that are very tight-fitting or seized due to corrosion are no longer an issue using the 17t hydraulic cylinder **KL-0040-2500**.

Scope of Delivery:

KL-0352-3 Pulling Device with Hydraulic Cylinder, Silentbloc

Part No.	Description	Qty
KL-0352-300 A	Pulling Device without Hydraulic Cylinder, Silentbloc	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery

KL-0352-300 A Pulling Device without Hydraulic Cylinder, Silentbloc

Part No.	Description	Qty
KL-0352-301 A	Set of Sleeves for Pulling Device, Mercedes W204/W211	1
KL-0039-1912-3	Shoulder Nut, M12 (flat), waf 19mm	1
KL-0039-1912-1	Pull Spindle, M12	1

Scope of Delivery:

KL-0352-301 A Set of Sleeves for Pulling Device, Mercedes W204/W211

Part No.	Description	Qty
KL-0352-3001	Support Sleeve, long, Ø 50mm	1
KL-0352-3002	Pressure Sleeve, short, Ø 38mm	1
KL-0482-2006	Extension	1
KL-0352-3003	Support Sleeve, short, Ø 50mm	1

KL-0357-10

Pulling Device for Trailing Arm Bearing, Mercedes A-Class (W168)

Suitable for Mercedes A-Class (W168), rear trailing arm.

Allows precise extraction and insertion of the inner and outer taper roller bearings and seals.

Scope of Delivery:

KL-0357-10 Pulling Device for Trailing Arm Bearing, Mercedes A-Class (W168)

Part No.	Description	Qty
KL-0357-1001	Mandrel, Ø 16mm for shaft	1
KL-0357-1002	Mandrel, Ø 21mm for plastic sleeve	1
KL-0357-1003	Pressure Disc	1
KL-0357-1004	Pressure Disc	1
KL-0040-3004	Axial Bearing	1
KL-0040-3005	Circlip SB35	1
KL-0352-0007	Spindle, M12x210mm	1
KL-0357-1006	Shoulder Nut, M12	1
KL-0357-1007	Pressure Sleeve	1
KL-0357-101	Collet Chuck with Support Sleeve	1
KL-0357-1016	Clamp Sleeve	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



1 B - Combination Spanner UD-Profil



KL-0356-11

Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes

Suitable for Mercedes W202 (C-Class) and W208 (CLK) rear axle subframe.

The pulling device **KL-0356-11** allows for the fast removal and replacement of **all** the silentblocs found on the rear axle subframe (including differential mounting bushes). Dismantling the rear axle subframe is not necessary.

Advantages:

- Fast - Large time savings of up to 3 hours.
- Safe - No hammer, chisel or similar tools needed.
- Universal - Hydraulic Cylinder **KL-0040-2500** can be used with many other GEDORE Automotive tools.

Scope of Delivery:

KL-0356-11 Pulling Device with Hydraulic Cylinder, Silentbloc, Mercedes

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2552	Adaptor, M42x2 to Ø 30mm	1
KL-0356-110	Pulling Device without Hydraulic Cylinder, Silentbloc	1

Scope of Delivery:

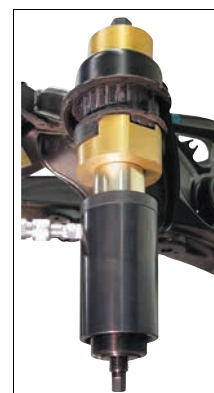
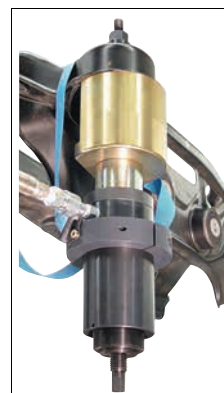
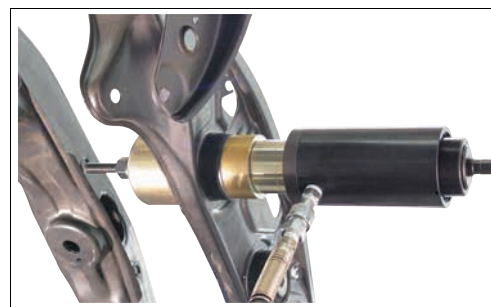
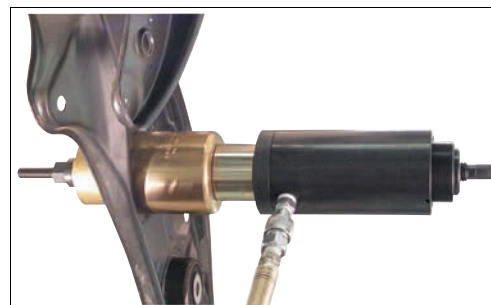
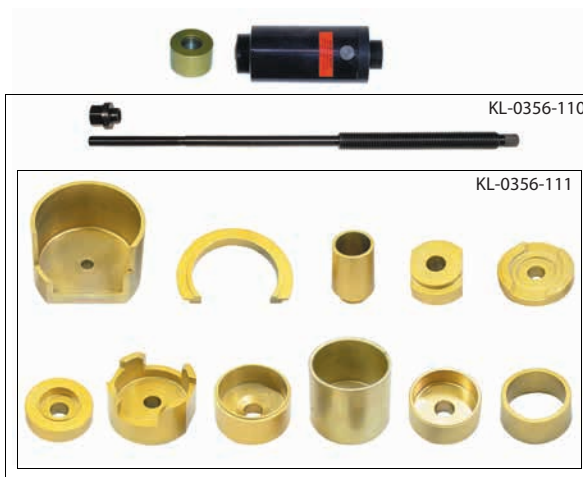
KL-0356-110 Pulling Device without Hydraulic Cylinder, Silentbloc, Mercedes

Part No.	Description	Qty
KL-0040-2542-2	Shoulder Nut, M12	1
KL-0356-111	Set of Sleeves	1
KL-0039-1912-1	Pull Spindle, M12	1

Scope of Delivery:

KL-0356-111 Set of Sleeves, Mercedes

Part No.	Description	Qty
KL-0356-1101	Support Sleeve	1
KL-0356-0005	Adaptor Ring	1
KL-0356-1102	Pressure Sleeve	1
KL-0356-1103	Thrust Piece	1
KL-0356-1104	Thrust Piece	1
KL-0356-1105	Support Plate	1
KL-0356-1106	Thrust Piece	1
KL-0356-1107	Support Sleeve	1
KL-0356-1108	Support Sleeve	1
KL-0356-1109	Pressure Sleeve	1
KL-0355-2002	Support Ring	1





KL-0356-12

Pulling Device with Hydraulic Cylinder, for Silentbloc, Mercedes W210

Suitable for Mercedes E-Class (W210) rear subframe.

The newly developed tool set **KL-0356-12** enables the quick removal and replacement of **all** the silentblocs on the rear axle sub-frame (including differential mounting bushes) without having to remove the rear axle subframe from the vehicle.

Advantages:

- Fast - Large time savings of up to 3 hours.
- Safe - No hammer, chisel or similar tools needed.
- Universal - The 17t hydraulic cylinder **KL-0040-2500** can be used on many other GEDORE Automotive tools.

Note: The use of the safety belt **KL-0040-2590** is always recommended when working with the Hydraulic Cylinder **KL-0040-2500** on the vehicle.

Scope of Delivery: KL-0356-12 Pulling Device with Hydr. Cyl., for Silentbloc

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2552	Adaptor, M42x2 to Ø 30mm	1
KL-0356-120	Pulling Device w/o Hydraulic Cylinder, for Silentbloc	1

Scope of Delivery: KL-0356-120 Pulling Device without Hydraulic Cylinder

Part No.	Description	Qty
KL-0040-2542	Pull Spindle, M12, with Nut	1
KL-0356-121	Set of Sleeves, Mercedes W210	1

Scope of Delivery: KL-0356-121 Set of Sleeves, Mercedes W210

Part No.	Description	Qty
KL-0356-1201	Support Sleeve	1
KL-0356-1202	Pressure Piece	1
KL-0356-1203	Pressure Piece	1
KL-0356-1204	Support Sleeve	1
KL-0356-1205	Support Sleeve	1
KL-0356-1206	Pressure Sleeve	1
KL-0356-1207	Tension Segment	2
KL-0356-1208	Mandrel	1
KL-0356-1209	Pressure Piece	1
KL-0356-1105	Support Disc	1
KL-0356-1108	Support Sleeve	1
KL-0356-1211	Pressure Sleeve	1
KL-0356-1212	Pressure Piece	1



KL-0356-1

Pulling Device, Mercedes

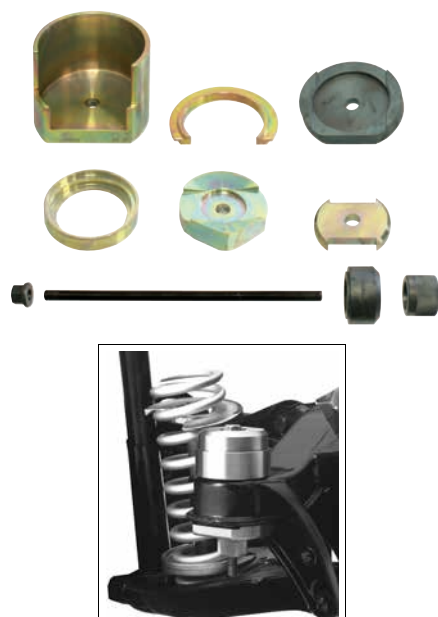
Suitable for Mercedes W124 and W201.

Intended for the replacement of both front and rear rubber bushes on the suspension points of the rear subframe.

Advantage: This tool allows the user to replace rubber bushes in situ on the vehicle without having to remove the rear subframe.

Scope of Delivery: KL-0356-1 Pulling Device, Mercedes

Part No.	Description	Qty
KL-0356-0001	Housing	1
KL-0014-0014	Axial Bearing	2
KL-0356-0004	Circlip SB42	2
KL-0356-0005	Adaptor Ring	1
KL-0350-0008	Thread Spindle, M10x230mm	1
KL-0356-0007	Knurled Nut	1
KL-0356-0008	Bearing Cover (small)	1
KL-0356-0009	Thrust Piece	1
KL-0356-0010	Spacer Ring	1
KL-0356-0011	Pressure Plate	1
KL-0356-0012	Pressure Plate	1
KL-0350-0009	Hex Shoulder Nut, M10	1



KL-0610-14

Pressing Device with Hydraulic Cylinder, Silentbloc, Ford Transit

Suitable for Ford Transit (from 2000 onwards), front axle wishbone.

Designed for the quick and safe removal and installation of front axle wishbone silentblocs (Ø 66mm).

This tool enables even heavily corroded/seized silentblocs to be removed and replaced within just a few minutes.

Scope of Delivery:

KL-0610-14 Pressing Device with Hydraulic Cylinder, Silentbloc, Ford Transit

Part No.	Description	Qty
KL-0610-140	Pressing Device without Hydraulic Cylinder, Silentbloc	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery:

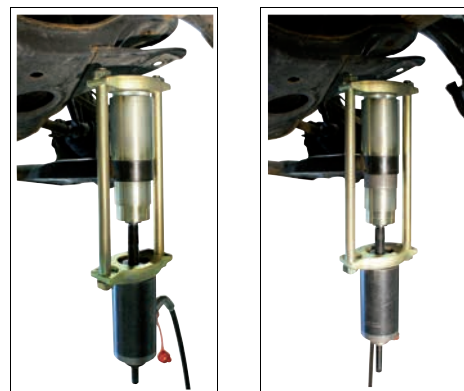
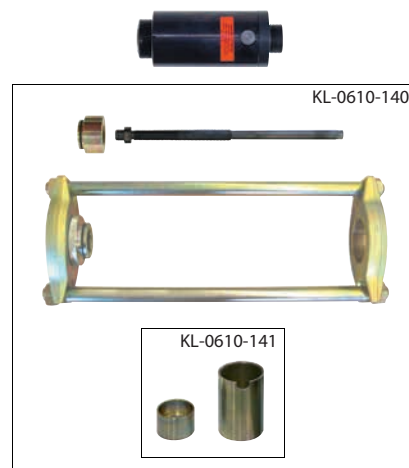
KL-0610-140 Pressing Device without Hydraulic Cylinder, Silentbloc

Part No.	Description	Qty
KL-0610-141	Sleeve Set, Ford Transit (from 2000 onwards)	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1150	Press Frame, lightweight, long	1

Scope of Delivery:

KL-0610-141 Sleeve Set, Ford Transit (from 2000 onwards)

Part No.	Description	Qty
KL-0610-1401	Pressure/Support Sleeve, long, Ø 76mm	1
KL-0610-1402	Pressure/Support Sleeve, short, Ø 65mm	1



KL-0610-12 L

Pressing Device with Hydraulic Cylinder, Silentbloc, Ford Fiesta/Puma

Suitable for Ford Fiesta [IV] (models 1995-2002), KA, Courier and Puma, rear axle.

Designed for the quick and safe removal and installation of the silentblocs found at the rear axle. This tool enables even heavily corroded silentblocs to be pressed out and replaced within just a few minutes.

Scope of Delivery:

KL-0610-12 L Pressing Device with Hydraulic Cylinder, Silentbloc

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0610-120 L	Pressing Device without Hydraulic Cylinder, Silentbloc	1

Scope of Delivery:

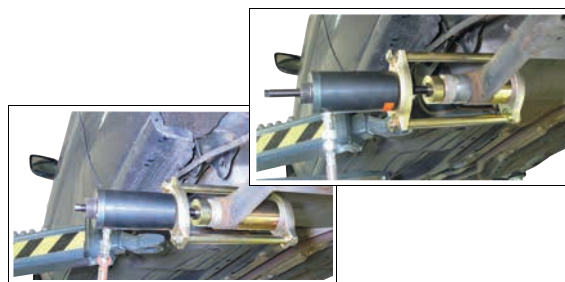
KL-0610-120 L Pressing Device without Hydraulic Cylinder, Silentbloc

Part No.	Description	Qty
KL-0610-121	Sleeve Set, Ford Fiesta	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure spindle with O-Ring, M20x350mm	1
KL-0039-1140	Press Frame, short, lightweight	1

Scope of Delivery:

KL-0610-121 Sleeve Set, Ford

Part No.	Description	Qty
KL-0610-1211	Thrust Piece	1
KL-0039-1672	Pressure-/Support Sleeve, short, Ø 72mm	1
KL-0039-1772	Pressure-/Support Sleeve, long, Ø 72mm	1



KL-0610-15 A

Pressing Device, Ford/Volvo

Suitable for the silentblocs that are found at the rear axle trailing arm of: Ford Galaxy (from 05/2006 onwards), Mondeo (from 2007 onwards), S-Max (from 2006 onwards) and Volvo S60/V60 (134/155), XC 60 (156), S80 (124/144), V70 / XC70 (135/136).

Designed for the quick, safe and professional removal and replacement of the silentblocs that are found on rear axle trailing arms. Removal and installation of the silentblocs can be carried out in situ on the vehicle within just a few minutes, without having to dismount the rear axle trailing arm. The special design and shape of the support ring and pressure sleeve ensure that even seized or heavily corroded silentblocs can be pressed out properly and without any trouble. The tool also facilitates the accurate positioning of the new silentbloc thus ensuring its correct installation.

Note: The **KL-0215-35 M25** hydraulic hand pump (accessory) is needed to drive the hydraulic cylinder **KL-0040-2500**. The hydraulic pressure and necessary force can be checked while operating the pump at pressure gauge **KL-0040-2529** (supplied with the tool set). The pressure gauge features a tonne scale specifically adapted to our **KL-0040-2500** hydraulic cylinder (17t).

Technical Data:

Pressure sleeve outer diameter:	Ø 90mm
Inner length (press frame):	245.5mm
Outer length (press frame):	332mm

Scope of Delivery:

KL-0610-15 A Pressing Device with Hydraulic Cylinder, Silentbloc, Rear Axle

Part No.	Description	Qty
KL-0610-150 A	Pressing Device without Hydraulic Cylinder, Rear Silentbloc	1
KL-0039-1002	Retaining Adaptor with O-Rings	1
KL-0039-1930	Pressure Spindle with O-Ring, M20x350mm	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery:

KL-0610-150 A Pressing Device without Hydraulic Cylinder, Silentbloc, Rear Axle

Part No.	Description	Qty
KL-0610-151 A	Upgrade Kit, Ford/Volvo	1
KL-0039-1144	Base Plate, 2 1/4"-14 UNS	1
KL-0215-4004	Pull Rod	1
KL-0049-3004	Hex Nut, M18	4

Scope of Delivery:

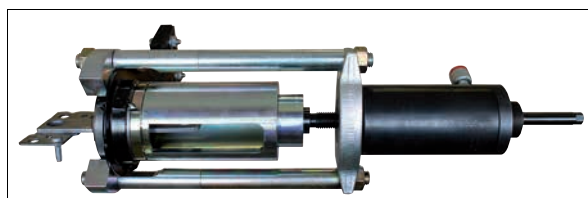
KL-0610-151 A Upgrade Kit, Ford/Volvo

Part No.	Description	Qty
KL-0610-1501-1	Pressure Ring	1
KL-0610-1501-2	Pull Rod Extension	2
KL-0610-1502	Pressure Sleeve, Ford/Volvo	1
KL-0610-1503	Adaptor	1

Accessories for KL-0040-2800

These accessories are needed if the **KL-0040-2800** hydraulic cylinder is to be used as a drive for the **KL-0610-150 A** pressing device for silentbloc.

Part No.	Description
KL-0040-2810	Pressure Spindle, M24
KL-0040-2855	Adaptor, 2 1/4"-14 UNS to 2 3/4"-16 UN
KL-0039-1004	Retaining Adaptor with O-Rings, for Pressure Spindle (Ø 18mm)



KL-0610-13 LA

Pressing Device with Hydraulic Cylinder, Silentbloc, Ford/Mazda/Volvo

Suitable for Ford: Focus I and II, C-MAX, Kuga I, Volvo: C30, S40, V50 (models from 2007 onwards) and Mazda: 3 (BK), 5 (CR19, CW), rear axle trailing arm.

Essential tool for the quick and safe removal and replacement of the silentbloc found at rear axle trailing arms. The removal of the trailing arm from the vehicle is not necessary.

Scope of Delivery:

KL-0610-13 LA Pressing Device with Hydraulic Cylinder, Silentbloc

Part No.	Description	Qty
KL-0610-130 LA	Pressing Device without Hydraulic Cylinder, Silentbloc	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery:

KL-0610-130 LA Pressing Device without Hydraulic Cylinder, Silentbloc

Part No.	Description	Qty
KL-0610-131 A	Set of Sleeves, Ford Focus	1
KL-0039-1002	Retaining Adaptor with O-Rings for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
KL-0039-1140	Press Frame, lightweight, short	1

Scope of Delivery:

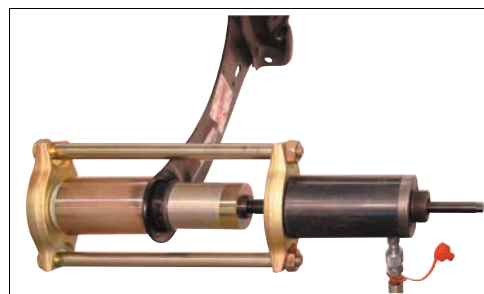
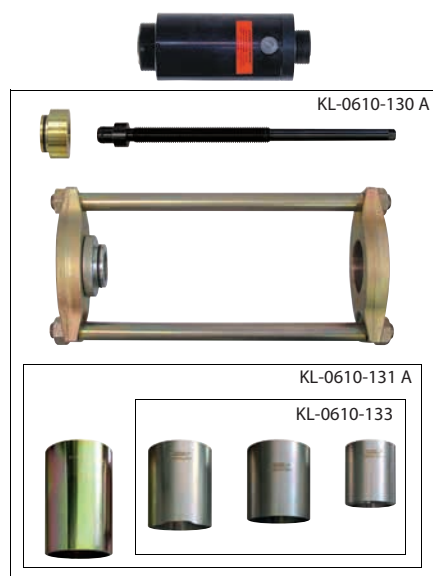
KL-0610-131 A Set of Sleeves, Ford/Mazda/Volvo

Part No.	Description	Qty
KL-0610-133	Upgrade Set of Sleeves, Ford Focus/Mazda 3	1
KL-0039-1774	Pressure/Support Sleeve, long, Ø 74mm	1

Scope of Delivery:

KL-0610-133 Upgrade Sleeve Set, Ford Focus/Mazda 3

Part No.	Description	Qty
KL-0610-1311 A	Pressure/Support Sleeve, Ø 59.3/52mm	1
KL-0610-1331	Pressure/Support Sleeve, Ø 70/66.5mm	1
KL-0610-1332	Pressure/Support Sleeve, Ø 70/62mm	1



KL-0421-2 A

Pulling Device for Ball Joints, Opel/Vauxhall Vectra B

Suitable for Opel/Vauxhall Vectra models from 1995 onwards, rear axle trailing arm.

The pulling device **KL-0421-2 A** enables the removal and installation of the upper and lower ball joint on rear axle trailings arm to be performed within just a few minutes without the need for removing the trailing arm from the vehicle.

Scope of Delivery:

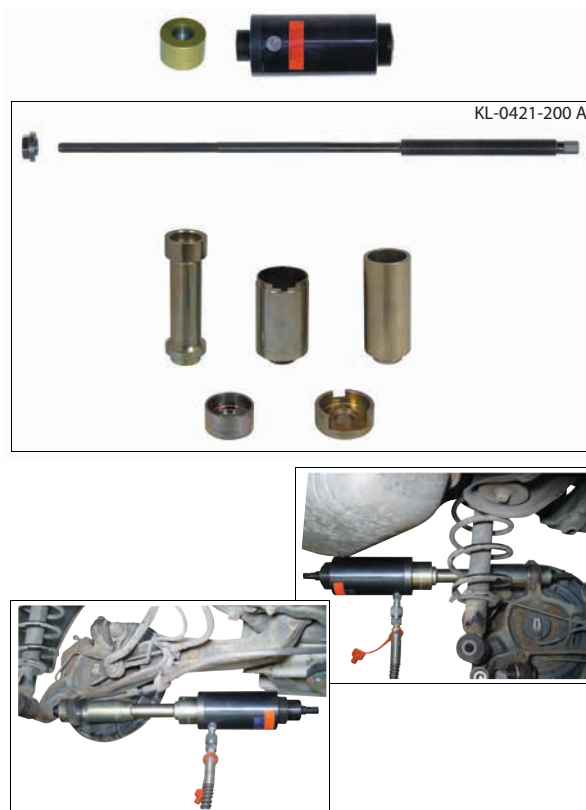
KL-0421-2 A Pulling Device for Ball Joints, Opel/Vauxhall Vectra

Part No.	Description	Qty
KL-0421-200 A	Pulling Device without Hydr. Cyl., for Ball Joints	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2552	Adaptor, M42x2 to Ø 30mm	1

Scope of Delivery:

KL-0421-200 A Pulling Device without Hydr. Cyl., for Ball Joints

Part No.	Description	Qty
KL-0421-2001	Pressure/Support Sleeve, Ø 52/45.5mm	1
KL-0421-2002	Thrust Piece, Ø 44mm	1
KL-0421-2003	Support Sleeve, Ø 54/46mm	1
KL-0421-2004	Pressure/Support Sleeve, Ø 46/40mm	1
KL-0421-2005	Shoulder Nut, M12 (flat)	1
KL-0421-2006	Extension	1
KL-0039-1912-1	Pull Spindle, M12	1





KL-0421-3

Pulling Device with Hydraulic Cylinder

Suitable for Opel/Vauxhall Astra (2003 onwards), Zafira B, rear axle.

Indispensable for the quick and safe removal and replacement of silentblocs on the rear axle, without the need for removing the latter.

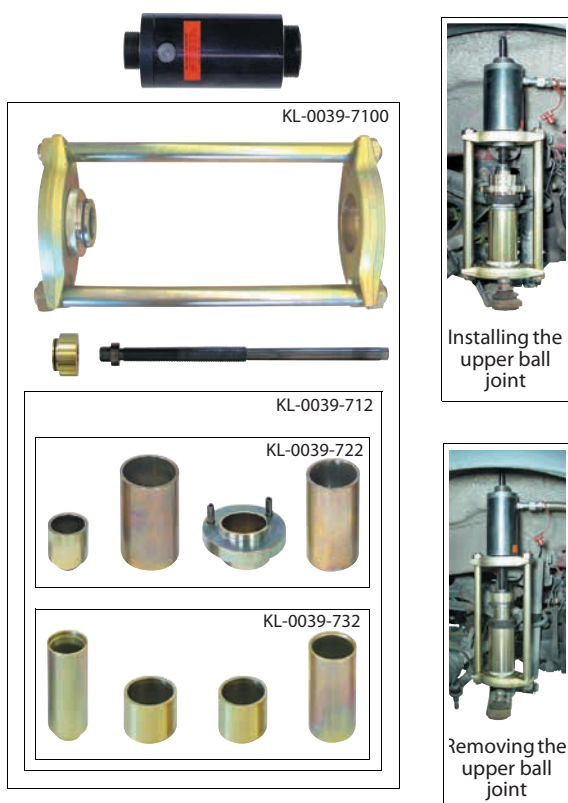
Scope of Delivery: KL-0421-3 Pulling Device with Hydraulic Cylinder, Silentbloc

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0040-2552	Adaptor, M42x2 to Ø 30mm	1
KL-0421-300	Pulling Device without Hydraulic Cylinder, Silentbloc	1

Scope of Delivery: KL-0421-300 Pulling Device without Hydraulic Cylinder

Part No.	Description	Qty
KL-0040-2542	Pull Spindle, M12, with Nut	1
KL-0421-3001	Support Sleeve with Clamping Jaw	1
KL-0421-3002	Thrust Piece	1
KL-0421-3003	Thrust Piece	1
KL-1001-1002	Support Sleeve (short)	1

4



KL-0039-710

Pressing Device with Hydraulic Cylinder, Renault Master II/Vauxhall/Opel Movano I

Suitable for Renault Master II (1998 onwards) and Vauxhall/Opel Movano I (1998 onwards), front axle

Used in conjunction with the hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25**, the pressing device **KL-0039-710** allows for the quick, professional and safe removal and installation of the suspension ball joints on the front upper and lower wishbone. This tool enables even heavily corroded/seized ball joints to be pushed out and replaced within just a few minutes.

The removal of the upper or lower wishbone is not necessary.

Advantages:

- Substantial time savings of approx. 1-2 hours.
- Quick and professional removal/installation of the suspension ball joints.
- Hydraulic Cylinder (17t) **KL-0040-2500** can universally be used on other GEDORE Automotive tools to exert pulling or pushing force.

Scope of Delivery: KL-0039-710 Pressing Device with Hydraulic Cylinder

Part-No.	Description	Qty
KL-0039-7100	Pressing Device without Hydraulic Cylinder	1
KL-0040-2500	Hydraulic Cylinder (17t)	1

Scope of Delivery: KL-0039-7100 Pressing Device without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1140	Press Frame (lightweight, short)	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-712	Sleeve Set, Renault Master II/Vauxhall/Opel Movano I	1

Scope of Delivery: KL-0039-712 Sleeve Set

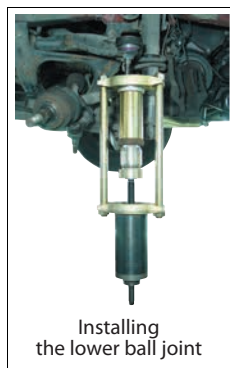
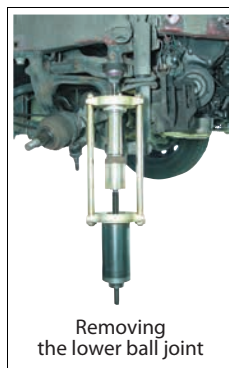
Part-No.	Description	Qty
KL-0039-722	Sleeve Set, Renault Master, Upper Suspension Ball Joint	1
KL-0039-732	Sleeve Set, Renault Master, Lower Suspension Ball Joint	1

Scope of Delivery: KL-0039-722 Sleeve Set, Upper Suspension Ball Joint

Part No.	Description	Qty
KL-0039-1644	Pressure/Support Sleeve, short, Ø 44mm	1
KL-0039-1764	Pressure/Support Sleeve, long, Ø 64mm	1
KL-0039-1820	Support Sleeve for Renault Master	1
KL-0039-1758	Pressure/Support Sleeve, long, Ø 58mm	1

Scope of Delivery: KL-0039-732 Sleeve Set, Lower Suspension Ball Joint

Part-No.	Description	Qty
KL-0039-1821	Pressure/Support Sleeve	1
KL-0039-1658	Pressure/Support Sleeve, short, Ø 58mm	1
KL-0039-1652	Pressure/Support Sleeve, short, Ø 52mm	1
KL-0039-1822	Pressure/Support Sleeve	1



KL-1210-21

Pressing Device, Renault Mégane/Scenic

Designed for Renault Mégane II and Scenic II.

The pressing device **KL-1210-21** used in conjunction with hydraulic pump **KL-0215-35 M25** or **KL-0215-37 M25** enables suspension ball joints to be pressed into and pressed out of the lower wishbone quickly and without any trouble. Removal and installation of the suspension ball joint can be carried out in situ on the vehicle, within a few minutes, with the wishbone in place.

Scope of Delivery: KL-1210-21 Pressing Device with Hydraulic Cylinder

Part No.	Description	Qty
KL-1210-210	Pressing Device without Hydraulic Cylinder, Renault Mégane II	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery: KL-1210-210 Pressing Device without Hydraulic Cylinder

Part No.	Description	Qty
KL-1210-211	Sleeve Set, Renault Mégane II	1
KL-0039-1140	Press Frame, lightweight, short	1
KL-0039-1002	Retaining Adaptor with O-Rings, for cCamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1

Scope of Delivery: KL-1210-211 Set of Sleeves, Renault Mégane/Scenic

Part No.	Description	Qty
KL-0039-1634	Pressure/Support Sleeve, short, Ø 34/26mm	1
KL-0039-1654	Pressure/Support Sleeve, short, Ø 54/46mm	1
KL-0039-1744	Pressure/Support Sleeve, long, Ø 44/36mm	1
KL-0039-1754	Pressure/Support Sleeve, long, Ø 54/46mm	1



KL-1210-30

Pulling Device with 17t Hydraulic Cylinder

Designed for Renault Laguna II rear subframe.

This device enables the quick and safe removal and replacement of silentblocs on rear subframes. With this tool, even severely corroded silentblocs can be pressed out and replaced within just a few minutes.

The fixing unit ensures that silentblocs are aligned accurately into specified positions.

Scope of Delivery: KL-1210-30 Pulling Device with 17t Hydr. Cyl., Silentbloc

Part No.	Description	Qty
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydr. Cyl.	1
KL-1210-300	Pulling Device without Hydr. Cyl., Silentbloc, Renault Laguna	1

Scope of Delivery: KL-1210-300 Pulling Device without Hydr. Cyl., Silentbloc

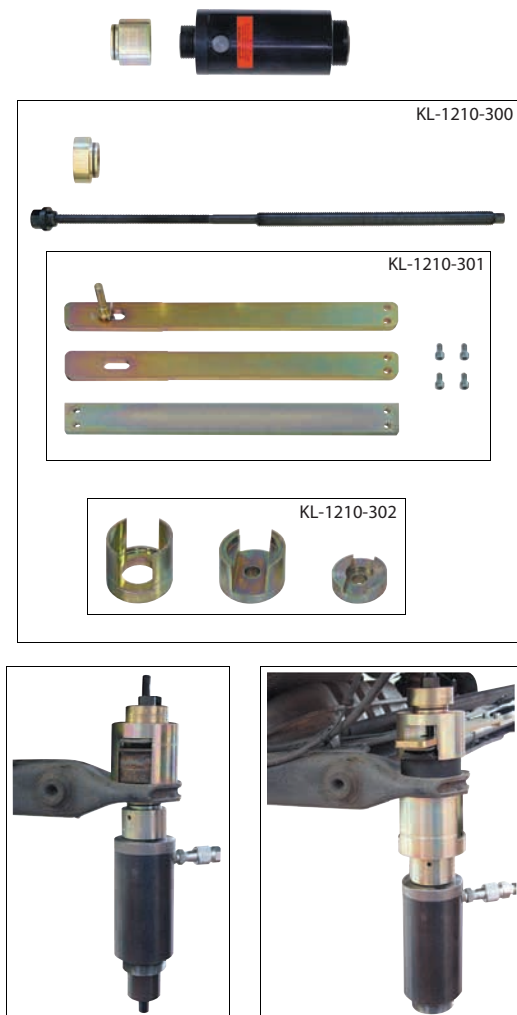
Part No.	Description	Qty
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1912	Pull Spindle, M12, with Nut	1
KL-1210-301	Fixing Unit	1
KL-1210-302	Set of Sleeves	1

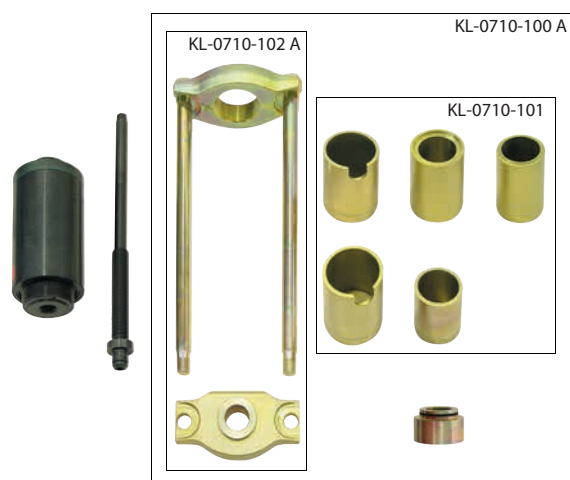
Scope of Delivery: KL-1210-301 Fixing Unit, Renault Laguna

Part No.	Description	Qty
KL-1210-3011	Mounting Rod	1
KL-1210-3012	Fixing Rod	2
KL-1210-3013	Socket Pin, Ø 14.5/12mm	1
KL-1210-3014	Adjusting Washer, Ø 15x21x1mm	1
KL-0040-2511	Cheese Head Screw, M8x16mm	4
KL-0205-2018	Circlip Ring A14	1

Scope of Delivery: KL-1210-302 Set of Sleeves, Renault Laguna

Part No.	Description	Qty
KL-1210-3021	Support Sleeve, long, Ø 88mm	1
KL-1210-3022	Pressure Piece, Ø 76mm	1
KL-1210-3023	Support Sleeve, Ø 88mm	1





KL-0710-10 A

Pressing Device with Hydraulic Cylinder

Suitable for Volvo S60, V70, XC70 (2001 onwards) and S80 (1998 onwards), front axle with silentbloc Ø 48mm and 53mm.

Indispensable for the quick, easy and safe removal and installation of the two silentblocs on lower wishbones. Thanks to this tool, it is not necessary to remove the wishbone completely from the vehicle.

Advantages:

- Substantial time savings of approx. 1-2 hours.
- Professional removal and installation of silentblocs.
- The **KL-0040-2500** hydraulic cylinder (17t) can be used universally on other GEDORE Automotive tools to exert pulling or pushing force.

Scope of Delivery: KL-0710-10 A Pressing Device with Hydr. Cyl., Silentbloc

Part No.	Description	Qty
KL-0710-100 A	Pressing Device without Hydr. Cyl., Silentbloc, Volvo	1
KL-0040-2500	Hydraulic Cylinder, 17t	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1

Scope of Delivery: KL-0710-100 A Pressing Device without Hydr. Cyl., Silentbloc

Part No.	Description	Qty
KL-0710-101	Set of Sleeves, (long), Volvo Wishbone	1
KL-0710-102 A	Press Frame (long), without Drive	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1

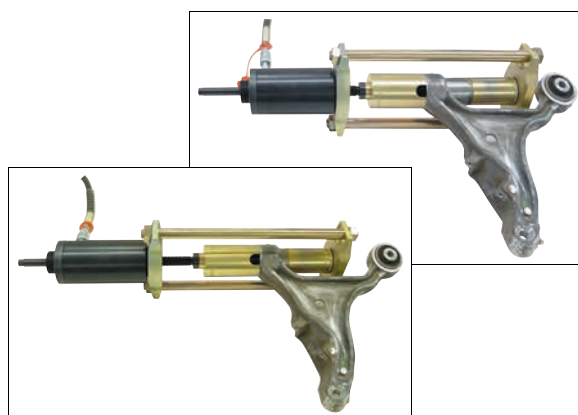
Scope of Delivery: KL-0710-101 Set of Sleeves, Volvo Wishbone

Part No.	Description	Qty
KL-0710-1001	Support Sleeve, 62mm	1
KL-0710-1002	Pressure Sleeve, 56mm	1
KL-0710-1003	Pressure Sleeve, 53mm	1
KL-0710-1004	Support Sleeve, 60mm	1
KL-0710-1005	Pressure Sleeve, 48mm	1

Scope of Delivery: KL-0710-102 A Press Frame (Long Design) without Drive

Part No.	Description	Qty
KL-0039-1144	Base Plate, 2 1/4"-14 UNS	1
KL-0039-1145	Base Plate, 2 1/4"-14 UNS, with Chamfer	1
KL-0039-1105	Adaptor, 2 1/4"-14 UNS to Ø 30mm, with O-Ring	1
KL-0039-1153	Frame Bar, M18, 375mm (long)	2
KL-0049-3004	Hex Nut, M18	4

4



KL-0711-11 L

Pressing Device with Hydraulic Cylinder

Designed for Volvo S40/V40, front axle wishbone.

Allows for the quick and easy removal and replacement of suspension ball joints. The ball joints can be removed and installed in situ on the vehicle within just a few minutes, without having to dismount the wishbone. This tool enables even heavily corroded/seized ball joints to be pushed out and replaced quickly and without any trouble.

Scope of Delivery: KL-0711-11 L Pressing Device with Hydraulic Cylinder

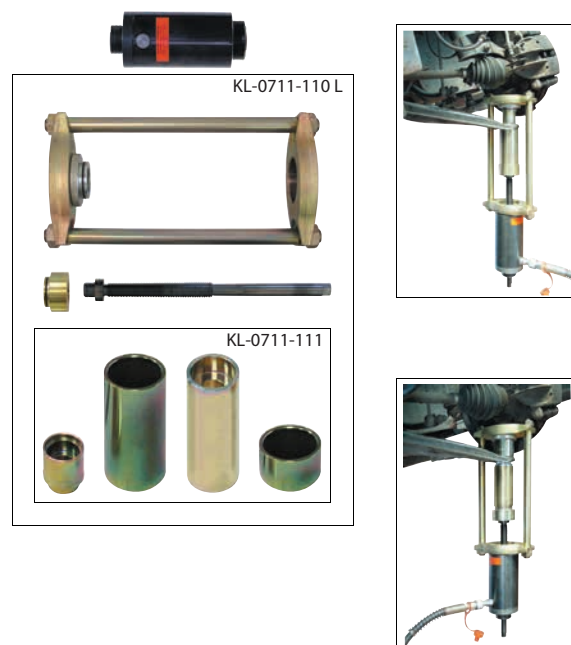
Part No.	Description	Qty
KL-0711-110 L	Pressing Device without Hydraulic Cylinder, Volvo S40/V40	1
KL-0040-2500	Hydraulic Cylinder, 17t	1

Scope of Delivery: KL-0711-110 L Pressing Device without Hydraulic Cylinder

Part No.	Description	Qty
KL-0039-1140	Press Frame, short	1
KL-0711-111	Sleeve Set, Volvo S40/V40	1
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
KL-0039-1930	Pressure Spindle, M20x350mm, with O-Ring	1

Scope of Delivery: KL-0711-111 Set of Sleeves, Volvo S40/V40

Part No.	Description	Qty
KL-0711-1111	Pressure/Support Sleeve, short, Ø 38mm	1
KL-0039-1754	Pressure/Support Sleeve, long, Ø 54mm	1
KL-0039-1750	Pressure/Support Sleeve, long, Ø 50mm	1
KL-0039-1654	Pressure/Support Sleeve, short, Ø 54mm	1



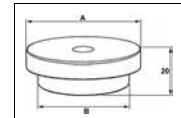
KL-0159-12

Set of Pressure Pieces, with Storage Case

For extracting and inserting bearings, shafts, bushes etc. Used in conjunction with a hydraulic press, pullers or tools of the **KL-0039-910 H** and **KL-0039-930 H** tool sets. The set consists of one mandrel, one plug and 15 pressure pieces and is supplied in a plastic storage case.

Technical Data:

Mounting bore Ø:	20mm
Ø A:	52-80mm in 2mm gradation
Ø B:	50-78mm in 2mm gradation



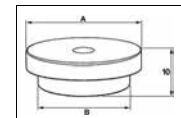
KL-0159-11

Set of Pressure Pieces, with Storage Case

For extracting and inserting bearings, shafts, bushes etc. Used in conjunction with a hydraulic press or any hydraulic press tool set of the **KL-0039-.. Series**. The set consists of one mandrel, one plug and 15 pressure pieces and is supplied in a plastic storage case.

Technical Data:

Mounting bore Ø:	10mm
Ø A:	22-50mm in 2mm gradation
Ø B:	20-48mm in 2mm gradation



4

KL-0215-35 M25

Hydraulic Hand Pump

The **KL-0215-35 M25** hydraulic hand pump is designed to be used as a drive for the hydraulic cylinders **KL-0040-2500** and **KL-0040-170**.

The hydraulic pressure and necessary force can be monitored while operating the pump at pressure gauge **KL-0040-2529** (supplied with the tool set). The pressure gauge features an additional tonne scale specifically adapted to our **KL-0040-2500** hydraulic cylinder (17t).

Technical Data:

Weight:	7.5kg
Max. pressure:	700bar

Note:

A hydraulic hand pump with pressure gauge precisely adapted to the hydraulic cylinder **KL-0040-2200** (10t) or **KL-0040-2800** (28t) available upon request.



Scope of Delivery:

KL-0215-35 M25 Hydraulic Hand Pump

Part No.	Description	Qty
KL-0215-33	Hydraulic Hand Pump (without hose)	1
KL-0215-31	Hydraulic Hose, 1.8m, with Hose-Side Connector	1
KL-0215-322	Cylinder-Side Connector, 1/4" NPT	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2529	Pressure Gauge	1

KL-0215-35

Hydraulic Hand Pump

Like the **KL-0215-35 M25**, however, without Pressure Gauge.



Scope of Delivery:

KL-0215-37 M25 Hydraulic Foot Pump

Part No.	Description	Qty
KL-0215-370	Hydraulic Foot Pump, without Hose	1
KL-0215-371	Hydraulic Hose, 2.5m, with Hose-Side Coupling	1
KL-0215-322	Cylinder-Side Coupling, 1/4" NPT	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2528	Pressure Gauge	1

KL-0215-37 M25 Hydraulic Foot Pump

The **KL-0215-37 M25** hydraulic foot pump is designed to drive our pressing and pulling devices with the **KL-0040-2500** hydraulic cylinder (17t). The hydraulic pressure and necessary force can be monitored while operating the pump at pressure gauge **KL-0040-2528** (supplied with the tool set). The pressure gauge features an additional tonne scale which is specifically adapted to our **KL-0040-2500** hydraulic cylinder (17t).

Advantage:

Both hands free to work.

Technical Data:

Weight:	11kg
Max. Pressure:	700bar

Note:

Hydraulic foot pump with pressure gauge, suitable for the hydraulic cylinder **KL-0040-2200 (10t)** or **KL-0040-2800 (28t)**, available upon request.

KL-0215-37 Hydraulic Foot Pump

Like the **KL-0215-37 M25**, however, without Pressure Gauge.



Scope of Delivery:

KL-0215-36 M25 Hydraulic Pump (Air-Driven)

Part No.	Description	Qty
KL-0215-360	Hydraulic Pump (without Hose)	1
KL-0215-362	Hydraulic Hose, 2.5m, with Hose-Side Coupling	1
KL-0215-322	Cylinder-Side Coupling 1/4" NPT	1
KL-0040-2520	Adaptor 3/8" NPT to 1/4" NPT	1
KL-0040-2529	Pressure Gauge	1

KL-0215-36 M25 Hydraulic Pump (Pneumatic)

The pneumatic hydraulic pump **KL-0215-36 M25** is designed to be used as a drive for hydraulic cylinders.

Compressed air is used to power the hydraulic pump. The pump is operated by a foot pedal with 3 positions - for pumping, holding and releasing.

Advantage:

Both hands free to work.

Technical Data:

Maximum Pressure:	700bar
Operating Pressure:	8-12 bar
Weight:	8kg

KL-0215-36 Hydraulic Pump (Pneumatic)

Like the **KL-0215-36 M25**, however, without Pressure Gauge.

GEDORE WORKSHOP FURNITURE

Intelligently designed - dependable under extreme use

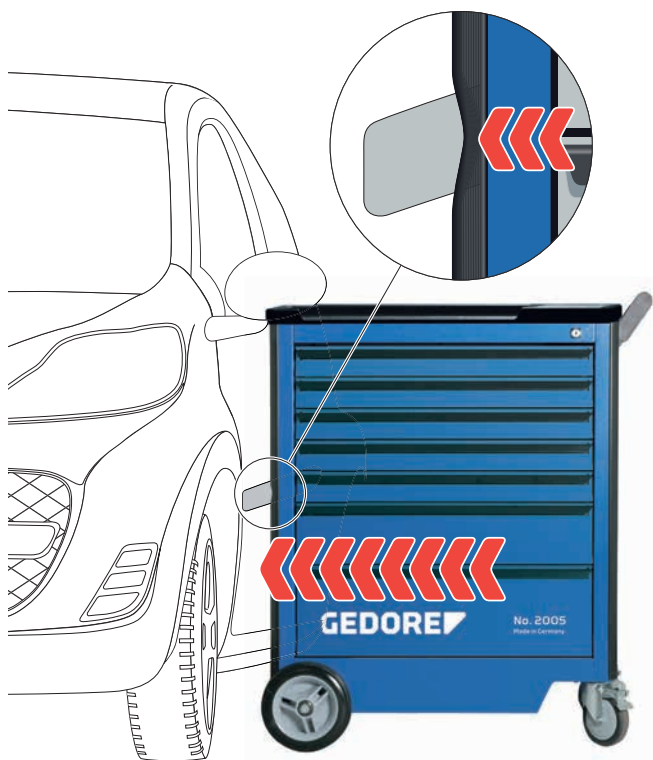


4

Best-possible quality for the highest demands placed

- > Use of the most up-to-date machinery and environmentally-friendly production processes
- > The basis is tightly-controlled and choice sheet steel
- > Experienced and reliable specialists vouch for precision-like processing
- > Stringent quality checks after each production step ensure a constantly high level
- > Best-possible industrial quality for those extreme levels of constant use and conditions subjected to
- > Professional service up to the development of special customised tools
- > Vertical and horizontal forces are calculated with precision
- > Unloaded weight optimisation from a finely-tuned material input
- > Robust, stable 0.88 mm thick sheet steel structure, supporting elements of a 1.00 mm metal thickness, a 2.00 mm metal thickness for the heavy-duty chassis
- > Precision spot welding ensures components stay permanently fixed
- > Tool trolleys have it all with their special GEDORE chassis and GEDORE heavy-duty wheels
- > Durable and highly resilient with stability of the highest-order

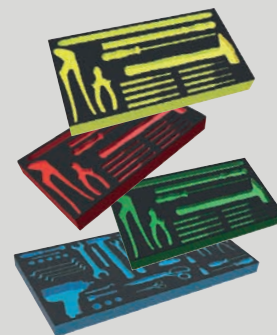
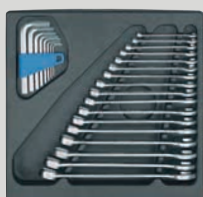
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Form and function perfection

- › Whether mobile or stationary: indispensable aids, in fact, for the rough-and-ready of workshop routine
- › Extremely robust, scratch and impact-resistant, corrosion-proof and easy to care for
- › Durable and highly resilient with stability of the highest-order
- › Numerous models to reflect use and individual requirements
- › Varied, optional accessories available for flexibly extending all the basic models
- › Specific colours (RAL) and outfits on request

GEDORE INDIVIDUAL PRECISE – CUSTOMISED

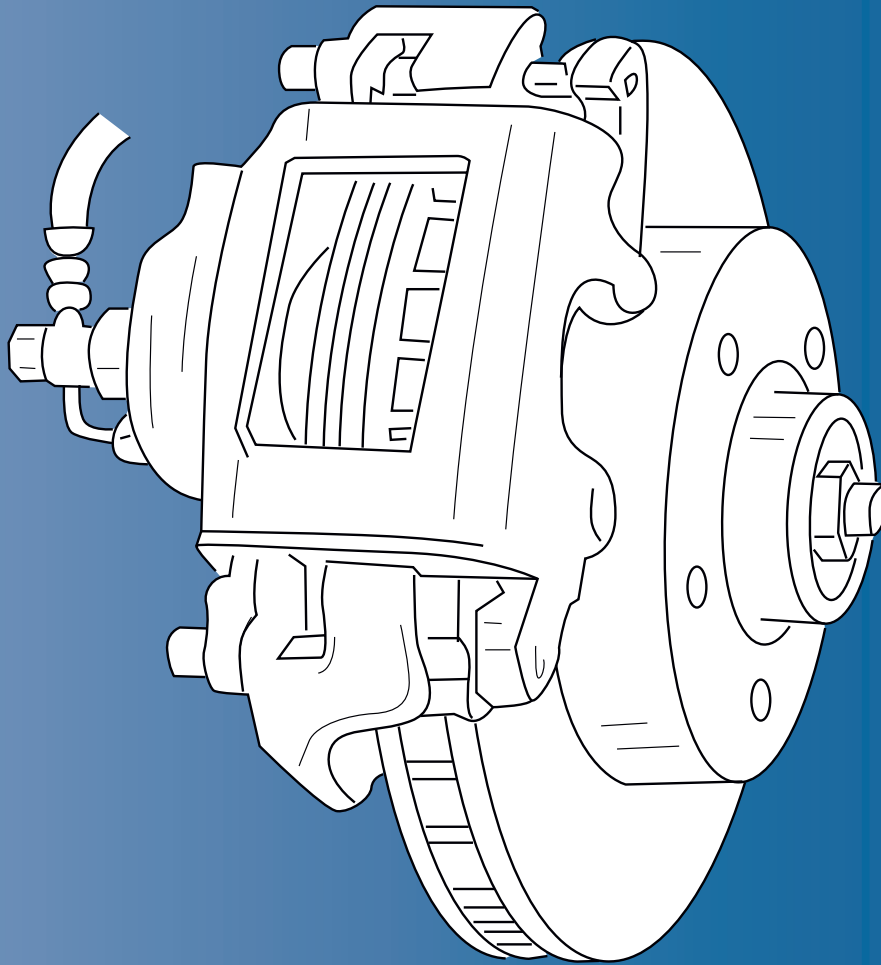


Tidy look, uncluttered and always at hand

- › Ready to be used straight after delivery: simply unpack and screw on the manoeuvring handle
- › Whether a mobile or stationary guardian of tidiness: each tool has its own place here
- › Modular arrangement systems make daily routine that much easier (visual check/tool missing)
- › Compact tool assortments make selection easier
- › Customised equipment/tool sets in module systems and/or trolleys/benches in company design/colours

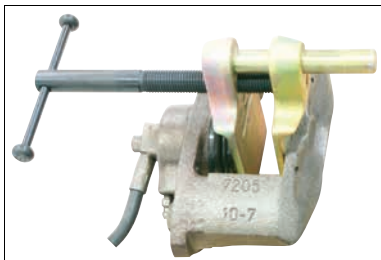
Why not create your perfection in tool orderliness in line with corporate design requests and your process specifications - We look forward to hearing from you!





Brake Service/Repairs

5



KL-0111-1
Calliper Piston Reset Tool (Narrow Design)

Universally applicable to virtually all vehicles.
Intended for floating callipers with single piston and fixed callipers with two pistons. This tool allows the user to quickly and professionally reset the brake piston on brake calliper systems without the risk of damaging the junk ring or piston.

- Advantages:**
- No jamming of the piston during reset.
 - Low expenditure of force needed - thanks to the precise guidance of the tool.
 - High stability and resistance to wear and tear - thanks to the hardened plates and guide pins.
 - High precision of the tool ensures easy use and long service life.

Technical Data:	
Max length of tool:	260mm
Height of tool:	125mm
Usable height of the jaws:	75mm
Width of the jaws:	70mm
Min span:	13mm
Max span:	70mm

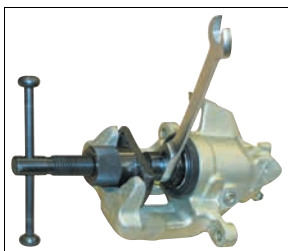


KL-0111-2
Calliper Piston Reset Tool (Wide Design)

Universally applicable to almost all vehicles.
Intended for floating callipers with two pistons and for fixed callipers with four pistons. This tool allows the user to quickly and professionally reset the brake piston on brake calliper systems without the risk of damaging the junk ring or piston.

- Advantages:**
- No jamming of the piston during reset.
 - Low expenditure of force needed - thanks to the precise guidance of the tool.
 - High stability and resistance to wear and tear - thanks to the hardened plates and guide pins.
 - High precision of the tool ensures easy use and long service life.

Technical Data:	
Max length of tool:	260mm
Height of tool:	115mm
Usable height of the jaws:	65mm
Width of the jaws:	100mm
Min span:	13mm
Max span:	70mm



KL-0112-2 A
Brake Piston Push-Back/Wind-Back Kit,
with 4 Adaptors, in a Storage Case

Applicable to: Alfa Romeo, Audi, Daihatsu, Fiat, Ford, Lancia, Jaguar, Mazda, Mini, Mitsubishi, Nissan, Opel/Vauxhall, Peugeot, Renault, Rover, Škoda, Seat, Subaru, Toyota, VW etc.
Universal push-back/wind-back kit for resetting (pushing or winding back, depending on application) brake pistons in floating callipers both with and without integrated parking brake mechanism. Can be used **on right-hand and left-hand threads**. Piston is wound back via the hexagon on the pressure piece.

Scope of Delivery: KL-0112-2 A Brake Piston Push-Back/Wind-Back Kit		
Part No.	Description	Qty
KL-0112-2000	Brake Piston Push-Back/Wind-Back Kit (Basic Device)	1
KL-0112-0005	Adaptor, Size 2	1
KL-0112-0007	Adaptor, Size 1	1
KL-0112-0010	Adaptor, Size 10	1
KL-0112-0016	Adaptor, Size 16, Opel/Vauxhall Astra J	1
KL-0112-2290	Plastic Storage Case	1

KL-0112-21 B

Brake Piston Push-Back/Wind-Back Kit, with 10 Adaptors, Storage Case

Applicable to: Audi, BMW, Citroën, Fiat, Ford, Honda, Mazda, Mitsubishi, Nissan, Opel/Vauxhall, Peugeot, Renault, Seat, Škoda, Subaru, Toyota, VW, etc.

Designed to reset (wind back or push back depending on application) brake pistons in floating callipers, both with or without mechanical parking brake mechanism. Can be used on **right-hand threads as well as on left-hand threads**. The piston is wound back via the hexagon on the pressure piece.

The universal brake piston push-back/wind-back kit KL-0112-21 B stands out for the following features:

Its spindle with handy toggle and a built-in thrust bearing for secure retention of the adaptors.

The spindle enables the controlled reset of the brake piston and correct guidance of the adaptor thanks to the handy toggle. The thrust bearing ensures that the adaptors are securely held in the tool and, thus, professional reset of the brake piston without any risk of damage. The base tool is only intended to position and fix the adaptor during the winding-back process. The reset takes place via the hexagon on the respective adaptor. This technique eliminates the risk of damaging the brake piston spindle and prevents the reset tool from jamming which could be caused by different spindle pitches in the tool and calliper.

Universally applicable to brake systems that need to be reset mechanically.

(A tool for all kinds of brake-resetting techniques)

Resetting brake pistons --- with left-hand thread --- with right-hand thread --- if the piston should not be rotated during the reset process. The adaptors are specifically designed for the respective brake piston application (in profile and outer Ø). This prevents damage to the piston and junk ring while resetting the brake piston. Possibility to update this tool set with additional and specifically designed adaptors for the latest vehicles and braking systems. With this tool kit you are always well-equipped for the current, latest and upcoming vehicle models.

Low overall height, no intermediate adaptors necessary.

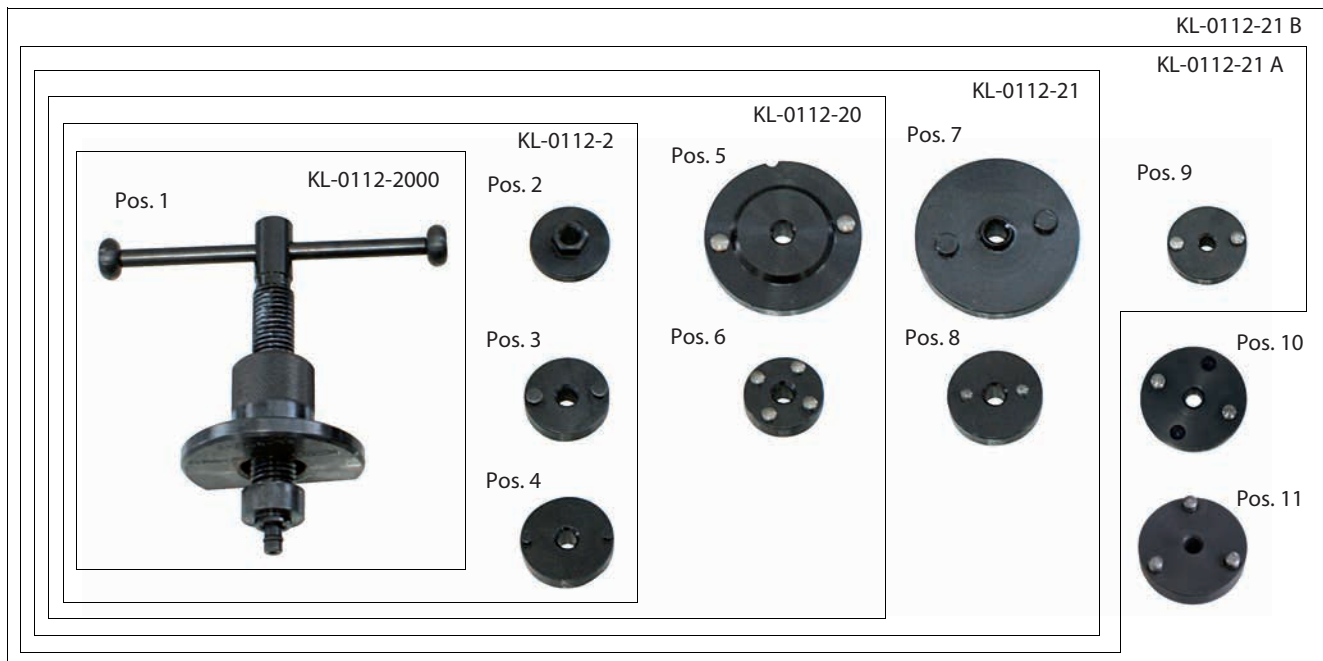
All components are individually available as spare parts.



Scope of Delivery:

KL-0112-21 B Brake Piston Push-Back/Wind-Back Kit

Part No.	Description	Pos.	Qty
KL-0112-2000	Brake Piston Push-Back/Wind-Back Kit (Basic Device)	1	1
KL-0112-0005	Adaptor, Size 2	2	1
KL-0112-0007	Adaptor, Size 1	3	1
KL-0112-0006	Adaptor, Size 6 (12mm hex socket for VW/Audi)	4	1
KL-0112-0008	Adaptor, Size 8 for Citroën XM/BX	5	1
KL-0112-0009	Adaptor, Size 9 for Honda/Saab	6	1
KL-0112-0010	Adaptor, Size 10 for Renault R21 a. Laguna	8	1
KL-0112-0013	Adaptor, Size 13 for Citroën C5	7	1
KL-0112-0015	Adaptor, Size 15 for Peugeot 207, 307, 308	9	1
KL-0112-0016	Adaptor, Size 16 for Astra J	10	1
KL-0112-0017	Adaptor, Size 17 for BMW	11	1
KL-0112-2290	Plastic Storage Case	-	1



Accessories (on demand):

1 B - Combination Spanner UD-Profil



Make	Model	Part-No.
Alfa Romeo	147 (190)	2000 - 2011 KL-0112-0005
	156 (116)	1997 - 2006 KL-0112-0005
	159 (140)	2005 - 2012 KL-0112-0005
Audi	A1 (8X)	2010 - ... KL-0112-0005
	A2 (8Z)	2000 - 2005 KL-0112-0005
	A3 (8L)	1997 - 2003 KL-0112-0005
	A3 (8P)	2003 - 2013 KL-0112-0005
	A4 (8D)	1994 - 2001 KL-0112-0005
	A4 (8E)	2001 - 2005 KL-0112-0005
	A4 (8H)	2005 - 2009 KL-0112-0005
	A6 (4B)	1997 - 2004 KL-0112-0005
	A8 (4D)	1994 - 2003 KL-0112-0005
	TT (8N)	1999 - 2006 KL-0112-0005
Citroën	TT (8J)	2006 - 2014 KL-0112-0005
	Electronic parking brake	2005 - ... KL-0112-0005*
	C3 (A51)	2009 - ... KL-0112-0005
	C4 Picasso (B58)	2006 - 2013 KL-0112-0005
	C5 (X3, X4)	2001 - 2008 KL-0112-0013
	C5 (X7)	2008 - ... KL-0112-0010
Fiat	C6 (X6)	2006 - 2012 KL-0112-0005
	500 (150)	2007 - ... KL-0112-0007
	500L (330)	2013 - ... KL-0112-0016
	Barchetta (183)	1995 - 2005 KL-0112-0007
	Brava (182)	1995 - 2001 KL-0112-0007
	Bravo (182)	1995 - 2001 KL-0112-0007
	Bravo (198)	2007 - 2014 KL-0112-0005
	Coupé (175)	1994 - 2002 KL-0112-0007
	Croma (195)	2005 - 2012 KL-0122-0005
	Freemont (345)	2011 - ... KL-0122-0005
	Marea (185)	1996 - 2002 KL-0112-0007
	Punto (199)	2009 - ... KL-0112-0005
	Scudo (272)	2007 - ... KL-0112-0005
	Stilo (192)	2001 - 2008 KL-0112-0005
	Ulysse (179)	2002 - 2011 KL-0112-0005
Ford	C-Max (22)	2003 - 2011 KL-0112-0010
	Focus (19)	1998 - 2005 KL-0112-0005
	Focus Turnier (19)	1998 - 2005 KL-0112-0005
	Focus (23)	2004 - 2012 KL-0112-0010
	Focus (25)	2011 - ... KL-0112-0005
	Galaxy (54)	2006 - ... KL-0112-0005
	Kuga (46)	2008 - 2013 KL-0112-0005
	Mondeo (36)	1996 - 2000 KL-0112-0005
	Mondeo (38)	2000 - 2007 KL-0112-0007
	Mondeo (39)	2007 - 2014 KL-0112-0005
	Mustang	2015 - ... KL-0112-0005
	S-Max (53)	2006 - ... KL-0112-0005
	Tourneo / Transit (27/83)	2013 - ... KL-0112-0010
	Transit T330 Rear-wheel drive	KL-0112-0005 / KL-0112-0007
Honda	Civic (EM, EP, ES, EU, EV)	2001 - 2006 KL-0112-0009
	Civic (FN, FK)	2006 - 2011 KL-0112-0009
Jaguar	S-Type (X200)	1999 - 2008 KL-0112-0005
	X-Type (X400)	2001 - 2010 KL-0112-0005
	XF-Type (X250)	2008 - ... KL-0112-0005
	XJ-Type (X350)	2003 - 2009 KL-0112-0005
	XJ-Type (351)	2009 - ... KL-0112-0005
	XK-Type (X100)	1996 - 2006 KL-0112-0005
	XK-Type (X150)	2006 - 2014 KL-0112-0005
KIA	Picanto	2004 - 2012 KL-0112-0005
Lancia	Kappa (107, 108)	1995 - 2000 KL-0112-0005
Mazda	3 (BK)	2003 - 2010 KL-0112-0007
	3 (BL)	2009 - 2013 KL-0112-0007
	5 (CR)	2005 - 2011 KL-0112-0010
	6 (GH)	2007 - 2012 KL-0112-0010
	Premacy (CP)	1999 - 2005 KL-0112-0007
Mercedes	Citan (W415)	2012 - ... KL-0112-0005
Mini	One (R50)	2001 - 2007 KL-0112-0010
	One (R56)	2006 - 2013 KL-0112-0007

Make	Model	Part-No.
Mitsubishi	ASX (GA)	2010 - ... KL-0112-0006
	Carisma (DA)	1995 - 2004 KL-0112-0005
	Space-Star (DG)	1998 - 2006 KL-0112-0005
Nissan	Primera (P12)	2001 - 2008 KL-0112-0010
Opel/ Vauxhall	Astra G (T98)	1998 - 2005 KL-0112-0005 (Bosch Sattel)
	Astra G (T98)	1998 - 2005 KL-0112-0010 (Lukas Sattel)
	Astra H (A04)	2004 - 2010 KL-0112-0005 (Bosch Sattel)
	Astra H (A04)	2004 - 2010 KL-0112-0010 (Lukas Sattel)
	Astra J (P10)	2010 - ... KL-0112-0016
	Meriva A (X03)	2003 - 2010 KL-0112-0005 (Bosch Sattel)
	Meriva A (X03)	2003 - 2010 KL-0112-0010 (Lukas Sattel)
	Meriva B (S10)	2010 - ... KL-0112-0016
	Mokka	2012 - ... KL-0112-0016
	Movano (X70)	1999 - 2011 KL-0112-0005 (Bosch Sattel)
	Signum A (Z03)	2003 - 2009 KL-0112-0010 (Lukas Sattel)
	Vectra B (J96)	1995 - 2001 KL-0112-0010 (Lukas Sattel)
	Vectra C (Z02)	2002 - 2009 KL-0112-0005 (Bosch Sattel)
	Vectra C (Z02)	2002 - 2009 KL-0112-0010 (Lukas Sattel)
Peugeot	Zafira A (T98)	1999 - 2005 KL-0112-0005 (Bosch Sattel)
	Zafira A (T98)	1999 - 2005 KL-0112-0010 (Lukas Sattel)
	Zafira B (A05)	2005 - ... KL-0112-0010 (Lukas Sattel)
	207	2006 - 2014 KL-0112-0005
	307	2001 - 2010 KL-0112-0005
	308	2007 - 2013 KL-0112-0005
Renault	407	2004 - 2012 KL-0112-0005
	5008	2009 - ... KL-0112-0005
	508	2010 - ... KL-0112-0016
	Espace (J81)	2002 - ... KL-0112-0010
	Laguna (B/K/S56)	1994 - 2001 KL-0112-0010
	Laguna (B74, K74)	2001 - 2008 KL-0112-0010
	Master (E/H/F/J/U70)	1998 - 2011 KL-0112-0005
	Megane (B/E/L/C/K/G/S84)	2002 - 2010 KL-0112-0005
	Modus (J77, F77)	2004 - 2012 KL-0112-0007
	Scenic (J84)	2003 - 2010 KL-0112-0007
Seat	Traffic (E/F/J83)	2001 - ... KL-0112-0005
	Twingo (C44, G44)	2007 - 2014 KL-0112-0005
	Alhambra (7V)	1995 - 2010 KL-0112-0005
	Altea (5P)	2004 - ... KL-0112-0005
	Exeo (3R)	2009 - 2013 KL-0112-0005
Škoda	Leon (1P)	2006 - 2013 KL-0112-0005
	Leon (5F)	2013 - ... KL-0112-0005
	Toledo (1M)	1999 - 2005 KL-0112-0005
	Toledo (5P)	2005 - 2010 KL-0112-0005
	Electronic parking brake	2005 - ... KL-0112-0005*
	Fabia (6Y)	2000 - 2007 KL-0112-0005
	Fabia (54)	2007 - 2015 KL-0112-0005
	Octavia (1U)	1996 - 2011 KL-0112-0005
Smart	Octavia (1Z)	2004 - 2013 KL-0112-0005
	Roomster (5J)	2006 - ... KL-0112-0005
	Superb (3T)	2008 - ... KL-0112-0005
	Yeti (5L)	2009 - ... KL-0112-0005
	Electronic parking brake	2005 - ... KL-0112-0005*
Smart	ForFour (W454)	2004 - 2006 KL-0112-0007 / KL-0112-0009
Toyota	Yaris	1999 - 2006 KL-0112-0010
	Yaris	2005 - 2011 KL-0112-0010
Volvo	S40 / V50 (544/545)	2004 - 2012 KL-0112-0010
VW	Golf (1J)	1997 - 2006 KL-0112-0005
	Golf (5K, AJ)	2009 - 2014 KL-0112-0005
	Scirocco (137, 138)	2008 - ... KL-0112-0005
	Sharan (7M)	1995 - 2010 KL-0112-0005
	T4 (7D)	1991 - 2003 KL-0112-0005
	T5 (7J/H/E/F)	2004 - ... KL-0112-0005
	Touran (1T, 9R)	2003 - ... KL-0112-0005
	Electronic parking brake	2005 - ... KL-0112-0005*

* Turn adaptor (noses point towards base tool)

KL-0112-22 K

Brake Piston Push-Back/Wind-Back Kit

Suitable for IVECO Daily I, II and III with Twin Wheel Axle.

For resetting the brake piston on rear axle braking systems.
The piston is wound back by turning the hexagon on the pressure piece.

Note:
The modular system enables easy upgrade of the kit with additional adaptors from the **KL-0112-.. Series**, thus allowing for a wider range of vehicle applications.

Technical Data:

Working travel max.:	65mm
Weight:	822g

Scope of Delivery:

KL-0112-22 K Brake Piston Push-Back/Wind-Back Kit

Part No.	Description	Qty
KL-0112-2000	Brake Piston Push-Back/Wind-Back Kit (Basic Device)	1
KL-0112-0014	Adaptor, Size 14 for IVECO Daily	1
KL-0112-2201	Support Plate	1
KL-0112-2290	Plastic Storage Case	1



KL-4041-2430

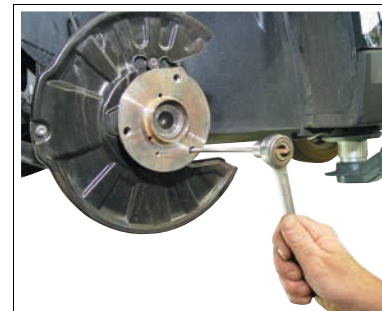
Screwdriver Bit Socket Torx® T30, 200mm, 3/8"

Suitable for Smart fortwo (model 2007 onwards) front axle.

This tool is required for the removal and installation of brake backing plates on steering knuckles.

Technical Data:

Drive:	3/8"
Size:	Torx T30
Length:	200mm



KL-0232-90

Bit Socket, Size (waf) 8mm

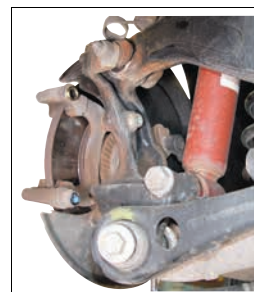
Suitable for Audi A4 models from 2001 onwards.

This tool is intended for the removal and installation of rear brake calliper carriers.

Technical Data:

Size:	8mm
Drive:	3/8"
Length:	24mm

Note:
The professional removal and installation of rear brake calliper carriers/the lower fastening screw is almost impossible without this very short **KL-0232-90** bit socket.



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



1 B - Combination Spanner UD-Profil





KL-4021-3107

Screwdriver Bit Socket,
Size (waf) 7mm, 100mm, 1/2"

Suitable for shock absorber piston rods and brake calliper fastening screws on VW-Audi etc.

Intended for hexagon socket screws.

Technical Data:

Size:	7mm hex
Drive:	1/2"
Overall length:	100mm
Weight:	100g

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-4021-3307

Screwdriver Bit Socket,
Size (waf) 7mm, 140mm, 1/2"

Suitable for shock absorber piston rods and brake calliper fastening screws on VW-Audi etc.

Intended for hexagon socket screws.

Technical Data:

Size:	7mm hex
Drive:	1/2"
Overall length:	140mm
Weight:	125g

5

1/2"



KL-4021-3109

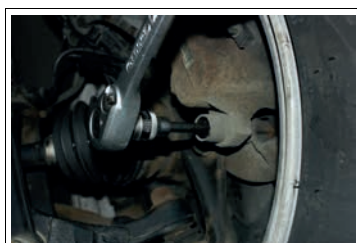
Screwdriver Bit Socket,
Size (waf) 9mm, 100mm, 1/2"

Suitable for BMW X5 (E70), X6 (E71/E72), Gran Turismo (F07), 5 Series (F10); Volvo XC60; Mercedes W164, W251.

The **KL-4021-3109** screwdriver bit socket is needed for the loosening and tightening of brake calliper fastening screws.

Technical Data:

Size (waf):	9mm
Length:	100mm
Drive:	1/2"



KL-4021-3111

Screwdriver Bit Socket,
Size (waf) 11mm, 100mm, 1/2"

Applicable to Mercedes W166.

The **KL-4021-3111** screwdriver bit socket is needed for the loosening and tightening of brake calliper fastening screws.

Technical Data:

Size:	11mm
Profile:	Hex
Drive:	1/2"
Length:	100mm

1/2"



KL-4031-3016

Screwdriver Bit Socket, M16

Suitable for VW Touareg.

The **KL-4031-3016** screwdriver bit socket is needed for the loosening and tightening of brake calliper fastening screws.

KL-0461-10

Pentagon Socket, Opel/Vauxhall

Suitable for the lower brake calliper fastening screw on Smart Fortwo (front axle), and brake callipers on Opel/Vauxhall Astra G, Zafira (rear axle).

Smart: For the removal and installation of the brake calliper on the front axle.

Opel/Vauxhall: For the removal and installation of the guide pin in case it is corroded and the floating calliper is no longer free to slide on the pin. Can also be used to remove the calliper piston.

Technical Data:

Size:	14mm
Drive:	1/2"



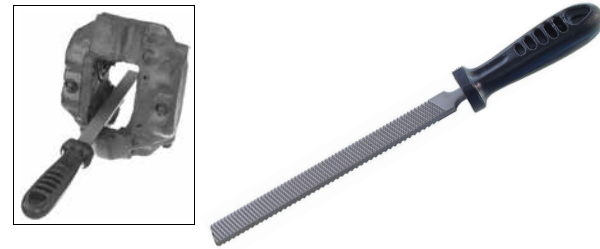
KL-0114-7

Brake Calliper File

For cleaning brake callipers before installing new brake pads. The file features one rough, diagonally milled side with bevelled edges. File blade dimensions: 125x13x5mm.

Technical Data:

Length:	220mm
Weight:	85g



KL-0114-8

Brake Calliper Brush (Steel)

For cleaning brake callipers before installing new brake pads.

Technical Data:

Length:	220mm
Weight:	60g



KL-0114-81

Brass-Wire Brush (Ultra Slim Design)

For cleaning sensitive control units, contacts, engine and brake parts, etc.

Technical Data:

Length:	220mm
Width:	11.7mm
Weight:	60g



KL-0192-7

Circlip Pliers (angled 90°)

For brake callipers and gearboxes, angled 90°.

Technical Data:

Length:	190mm
Leg length:	60mm



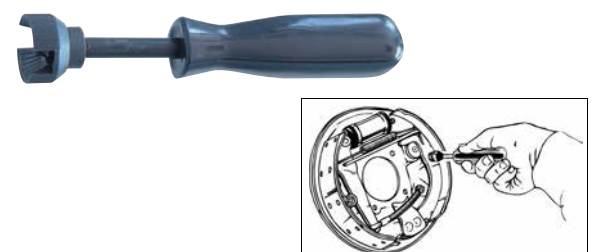
KL-0114-41

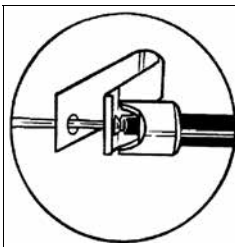
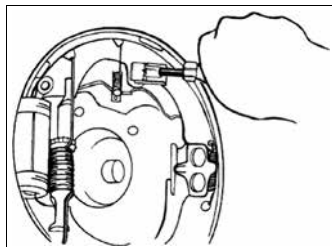
Brake Spring Tool

This tool is intended for the removal and installation of the brake shoe retaining spring on drum brakes. Allows the user to quickly, professionally and safely remove and install brake spring plates for brake spring plate Ø of 13.5-23mm.

Technical Data:

Length:	155mm
Weight:	95g





KL-0114-42 Brake Spring Tool

Suitable for European vehicles with brake shoe retaining clips.

To release the retaining clip, insert the tool tip into the groove, and rotate the handle 90° to allow the clip to be released from the pin.

Technical Data:

Weight:	115g
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KL-0314-1 Brake Spring Tool, Mercedes

Applicable for Mercedes etc.

For the removal and installation of parking brake shoe retaining springs. Suitable for both conical and cylindrical retaining springs.

Technical Data:

Length:	145mm
Weight:	110g

5



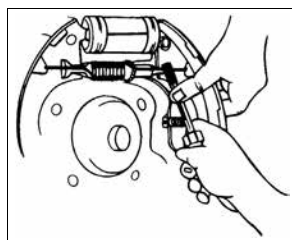
KL-0114-2 Brake Spring Pliers

With flexible jaw.

For riveted and bonded brake linings.

Technical Data:

Length:	317mm
Weight:	340g



KL-0114-9 Brake Spring Tool

Designed to remove and install return springs on drum brakes.

The return spring is engaged into the hook head of the tool and locked by turning the handle. The installation happens by pulling the spring with the tool into the correct position.

Technical Data:

Length:	220mm
Weight:	85g



KL-0114-21 Brake Spring Assembly Hook

Universal application.

Designed to remove and install return springs on drum brake systems.

Technical Data:

Length:	150mm
Weight:	100g

KL-4013-2310

Parking Brake Cable Adjuster Socket

Universally applicable to parking brake cable adjusters from VW-Audi, Seat, Skoda, Opel/Vauxhall, Ford and BMW, with a size of 10mm (waf).

For example, fitted to VW Polo, Golf, Passat; Audi A3, A4, A6, TT; Opel/Vauxhall Adam, Corsa, Astra, Vectra; Ford Fiesta, Focus, Mondeo; BMW 1 Series, 3 Series etc.

Designed to adjust/readjust the parking brake lever travel on parking brake cable adjusters. The long design of the socket featuring a through hole, also allows parking brake cable adjusters with a long threaded shank to be adjusted with ease.



3/8"

Technical Data:

Drive:	3/8"
Size (waf):	10mm
Shank length:	100mm
Overall length:	120mm

KL-0114-990

Set of Abrasive Sleeve Holders with Abrasive Sleeves

These holders with abrasive sleeves are ideal for the quick and easy removal of rust, corrosion and dirt from inner bores. e.g.: bores in floating brake calipers, or mounting bore for ABS Sensors, etc.

Drive can be taken from a hand drill, either directly or with the aid of a flexible shaft.

Scope of Delivery: KL-0114-990 Set of Abrasive Sleeve Holders

Part No.	Description	Qty
KL-0114-91	Abrasive sleeve holder with 50 abrasive sleeves for Ø 16mm	1
KL-0114-92	Abrasive sleeve holder with 50 abrasive sleeves for Ø 18mm	1
KL-0114-93	Abrasive sleeve holder with 50 abrasive sleeves for Ø 22mm	1

Scope of Delivery: KL-0114-91 Abrasive Sleeve Holder with 50 Abrasive Sleeves

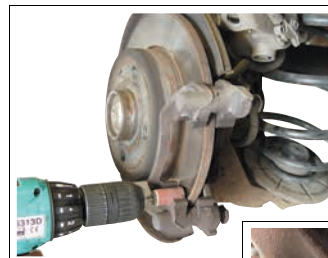
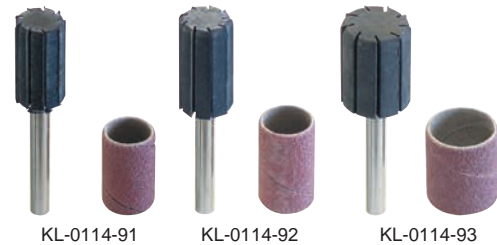
Part No.	Description	Qty
KL-0114-910	Abrasive sleeve holder for Ø 16mm	1
KL-0114-911	Abrasive Sleeve set 80 grit for Ø 16mm (50 pieces)	1

Scope of Delivery: KL-0114-92 Abrasive Sleeve Holder with 50 Abrasive Sleeves

Part No.	Description	Qty
KL-0114-920	Abrasive sleeve holder for Ø 18mm	1
KL-0114-921	Abrasive sleeve set 80 grit Ø 18mm (50 pieces)	1

Scope of Delivery: KL-0114-93 Abrasive Sleeve Holder with 50 Abrasive Sleeves

Part No.	Description	Qty
KL-0114-930	Abrasive sleeve holder for Ø 22mm	1
KL-0114-931	Abrasive Sleeve set 80 grit for 22mm (50 pieces)	1



KL-0114-89 K

Cleaning Tool Set for ABS Sensor

Universally suitable for ABS sensor mounting bores with hole diameters of 10mm, 14mm, 15mm or 18mm; for example:

- Bore hole Ø 10mm: VW Lupo, Passat, T5; Audi A2, A4 from 2001 onwards;
- Bore hole Ø 14mm: BMW E38; Mercedes C-Class (W202, W203), E-Class (W124, W210), S-Class (W140);
- Bore hole Ø 15mm: Mercedes; Ford; Daewoo;
- Bore hole Ø 18mm: Audi A4 until 2001; BMW E36; Mercedes W163; Peugeot Boxer; Renault Clio; VW Golf.

The KL-0114-89 K cleaning tool set allows for the quick, trouble-free and professional cleaning of ABS sensor mounting bores. The fine-toothed swivel head ratchet included in the set enables professional cleaning even in very confined spaces.

Scope of Delivery: KL-0114-89 K Cleaning Tool Set for ABS Sensor

Part No.	Description	Qty
KL-0114-891	Swivel Head Ratchet, 1/4"	1
KL-0114-8921	Drill, Ø 10mm	1
KL-0114-8931	Reamer, Ø 10x150mm	1
KL-0114-8941	Reaming Head, Ø 14x32mm	1
KL-0114-8942	Reaming Head, Ø 15x23mm	1
KL-0114-8943	Reaming Head, Ø 18x23mm	1
KL-0114-8944	Reaming Head, Ø 18x34mm	1
KL-0114-8990	Plastic Storage Case	1



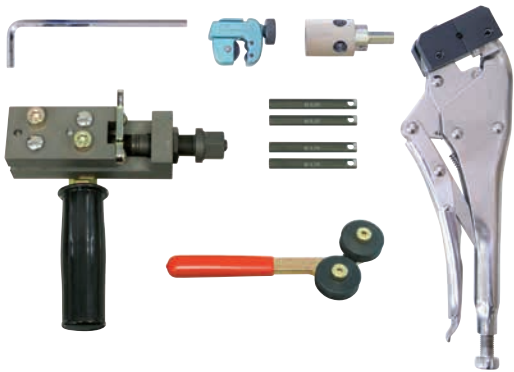


KL-0117-2 KA (Pat. e.g. US-Patented 6,966,210)
Brake Pipe Flaring Tool Kit, with Interchangeable Inserts (Ø 4.75mm and Ø 5.25mm), Peeling Tool, Gripping Pliers

Suitable for the steel, aluminum and copper brake pipes with a pipe Ø of 4.75mm, as well as for the plastic-coated brake pipes used on VW-Audi, Seat, Skoda vehicles with a brake pipe diameter of 5.25mm, as well as for those used on Opel/Vauxhall having a pipe diameter of 5.14mm.

This specially designed tool allows flares to be created according to DIN Standard F on a brake pipe in a vice. It also enables the section repair of a brake pipe to be performed directly on the vehicle (for example after a rear-end collision). No need for removing and reinstalling the power train (engine/gearbox) when this tool is used. The interchangeable clamping jaws with a clamping surface of approximately 65mm ensure the safe retention of the brake pipe without any risk of damaging it.

Delivery:



Application:

- Detach the brake pipe with the pipe cutter.
- Peel away the plastic coating to a determined length while deburring the brake pipe at the same time.
- Press flare F (acc. to DIN standard) onto brake pipe.
- Bend the brake pipe into the correct shape if necessary.

Advantages:

- The brake pipe is securely held in the flaring tool without the risk of deforming the pipe, thanks to the interchangeable clamping jaw inserts.
- Flares are created accurately according to DIN Standard F.
- Ball-bearing-mounted pressure piece.
- Limit stop for accurate length, thus giving exact material specification for the flare.
- Ergonomic handle for flaring directly on the vehicle.
- Built-in holder for clamping into a vice.
- Substantial time and cost savings.
- All components are individually available as spare parts.

Technical Data:

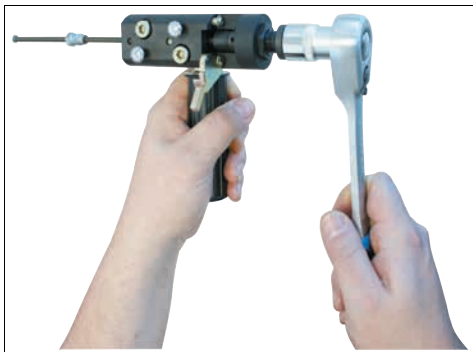
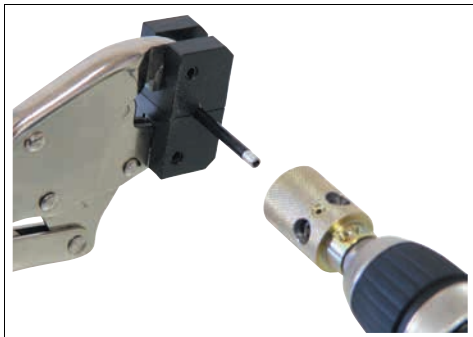
Weight:	3.5kg
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Scope of Delivery:

KL-0117-2 KA Brake Pipe Flaring Tool Kit, with Interchangeable Inserts (Ø 4.75mm and Ø 5.25mm), Peeling Tool, Gripping Pliers

Part No.	Description	Qty
KL-0117-20 A	Brake Pipe Flaring Tool, with Interchangeable Inserts (Ø 4.75mm and Ø 5.25mm)	1
KL-0117-21	Brake Pipe Peeling Tool	1
KL-0117-22	Gripping Pliers with Plastic Clamping Jaws	1
KL-0117-23	Pipe Bending Tool	1
231000	Pipe Cutter 'mini-quick'	1
KL-0117-29	Plastic Storage Case with Insert	1

Application:



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-0117-2 KB

Brake Pipe Flaring Tool Kit, with Interchangeable Insert (Ø 4.75mm)

Suitable for steel, aluminum and copper brake pipes with a pipe Ø of 4.75mm.

For description, see **KL-0117-2 KA**.

The **KL-0117-206** upgrade kit allows you to use the flaring tool also on the plastic-coated brake pipes (Ø 5.25mm) on VW-Audi, Seat, Škoda vehicles.

Scope of Delivery:

KL-0117-2 KB Brake Pipe Flaring Tool Kit with Interchangeable Insert (Ø 4.75mm)

Part No.	Description	Qty
KL-0117-20 B	Brake Pipe Flaring Tool with Interchangeable Insert (Ø 4.75mm)	1
KL-0117-23	Pipe Bending Tool	1
231000	Pipe Cutter 'mini-quick'	1
KL-0117-29	Plastic Storage Case with Insert	1



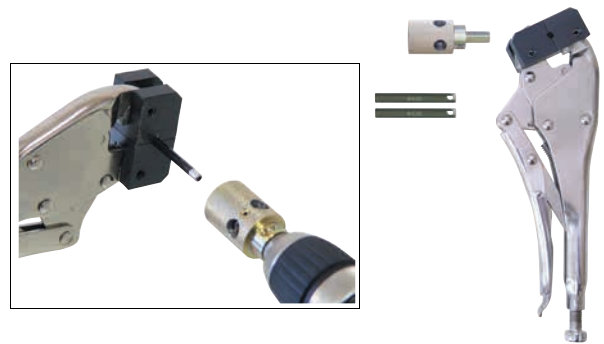
KL-0117-206

Upgrade Kit, (to Pipe Ø 5.25mm)

The **KL-0117-206** upgrade kit enables the brake pipe flaring tool **KL-0117-2 KB** also to be used for the plastic-coated brake pipes found on VW-Audi, Seat, Škoda vehicles with an overall brake pipe diameter of 5.25mm.

Scope of Delivery: KL-0117-206 Upgrade Kit (to Pipe Ø 5.25mm)

Part No.	Description	Qty
KL-0117-2052	Inserts (pair) Ø 5.25mm, interchangeable	1
KL-0117-21	Brake pipe-peeling tool	1
KL-0117-22	Gripping pliers with plastic clamping jaws	1



5

KL-0117-2 KC

(Pat. e.g. US-Patented 6,966,210)

Brake Pipe Flaring Tool Kit, with Interchangeable Insert (Ø 5.25mm), Peeling Tool, and Gripping Pliers

Suitable for the plastic-coated brake pipes used on VW-Audi, Seat and Škoda vehicles with a pipe Ø of 5.25mm.

This specially designed tool kit allows flares to be created according to DIN Standard F on a brake pipe in the vice. It also enables the section repair of a brake pipe to be performed directly on the vehicle (for example after a rear-end collision). For this, the interchangeable inserts Ø 4.75mm **KL-0117-2051** are necessary.

No need for removing and reinstalling the power train (engine/gearbox) when this tool is used.

The interchangeable clamping jaw inserts with a clamping surface of approximately 65mm ensure the safe retention of the brake pipe without any risk of damaging it.

Scope of Delivery: KL-0117-2 KC Brake Pipe Flaring Tool Kit, with Interchangeable Insert (Ø 5.25mm), Peeling Tool, and Gripping Pliers

Part No.	Description	Qty
KL-0117-20 C	Brake Pipe Flaring Tool, with Interchangeable Insert (Ø 5.25mm)	1
KL-0117-21	Brake Pipe Peeling Tool	1
KL-0117-22	Gripping Pliers with Plastic Clamping Jaws	1
KL-0117-23	Pipe Bending Tool	1
231000	Pipe Cutter 'mini-quick'	1
KL-0117-29	Plastic Storage Case with Insert	1



KL-0117-2051

Inserts (Pair) Ø 4.75mm (Interchangeable)





DIN Standard E
Double Flare



Technical Data:

Drive:	19mm
Length:	85mm
Weight:	170g

KL-0117-25

Set of Pressure Pieces for Double Flares to DIN Standard E

This tool set is designed to enable a flare to be produced quickly and accurately according to DIN Standard E. It is used with Brake Pipe-Flaring Tool Kit **KL-0117-20 A**.

Scope of Delivery: KL-0117-25 Set of Pressure Pieces

Part No.	Description	Qty
KL-0117-2501	Pressure Screw	1
KL-0117-251	Pressure Piece 1	1
KL-0117-252	Pressure Piece 2	1



KL-0117-251 Pressure Piece 1

Used for pre-flaring in order to produce a flare according to DIN Standard E.

Technical Data:

Length:	80.5mm
Weight:	50g



KL-0117-252 Pressure Piece 2

Used to finish the creation of a flare according to DIN Standard E.

Technical Data:

Length:	85mm
Weight:	40g



234001 CODE 4505530 Dual Beading Tool

For 4.75-10 mm diameter metric-size pipes, complete in sheet steel case, for brake lines, refrigerant lines, hydraulic and pneumatic pipes with a wall thickness between 0.7 and 1.0 mm. GTW tempered cast body, stove-enamelled in blue, phosphatised steel jaws.

Also available as a set for metric size pipes and inch size pipes (No. 234 013) or for inch-size pipes only (No. 234 002).



231000 CODE 4504560 Miniature Pipe Cutter MINI-QUICK

With tool body in pressure-cast zinc, stove enamelled blue, cutting wheel in chrome-alloyed stainless steel. For Ø of 4-16 mm O.D. tubing.

Especially suitable for barely-accessible places.



KL-0117-24 Inside Deburrer for Brake Lines

Universally suitable for steel, aluminium and copper brake lines with a pipe Ø of from 2-13mm.

Designed for the quick and easy inside deburring of pipes.

Technical Data:

Length:	115mm
Pipeline diameter (inner):	Ø 2-13mm
Weight:	60g

KL-0117-51

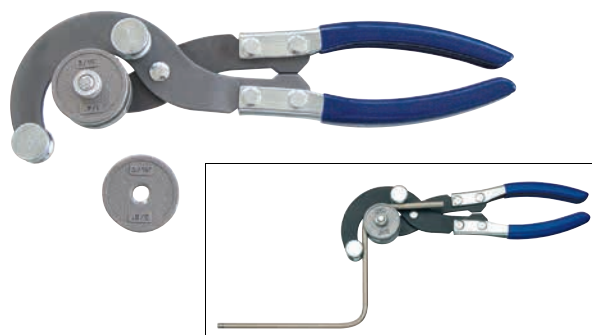
Pipe Bending Pliers

Suitable for copper pipes DIN-EN 1057, non-ferrous metal pipes as well as thin-walled precision steel pipes and brake lines with Ø of from 4.75 to 10mm, (two turnable formers 4.75-6.0mm and 8.0-10.0mm).

Indispensable for the quick and professional bending of brake pipes. Bending up to 90° possible.

Technical Data:

Weight:	530g
Length:	260mm
Pipe diameter:	4.75-10.0mm



KL-0117-23

Pipe Bending Tool

Universally suitable for brake pipes made of steel, aluminium or copper with a pipe diameter of from 4.75mm to 6.0mm.

The compact and handy shape of the tool enables the easy and trouble-free bending of brake pipes even in very confined spaces.

Technical Data:

Pipe diameter:	Ø 4.75 to 6mm
Radius of bend:	15mm
Length:	175mm
Weight:	200g



KL-0117-61

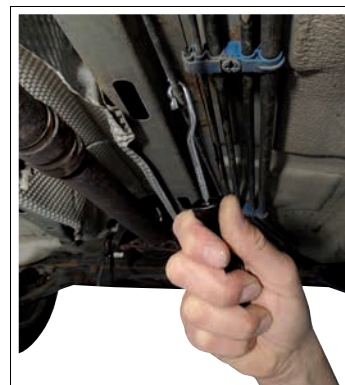
Brake Pipe Corrosion Detection Tool

Universal application.

The tool features three scraper areas which allow for the efficient cleaning as well as easy inspection of brake pipes for corrosion and dirt - even in places that are difficult to access.

Technical Data:

Length:	approx. 175mm
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KL-0121-61 K

Universal Line Clamp Set

Universally suitable for brake, fuel, hydraulic and power steering lines with 5/16", 3/8", 1/2" union nuts and banjo fittings.

Used to seal off opened line connections on brake, fuel, hydraulic and power steering line systems. The universal line clamps are designed to help you prevent any leakage of automotive fluids from opened lines, thus eliminating the risk of contamination of the workplace.

Scope of Delivery:

KL-0121-61 K Universal Line Clamp Set

Part No.	Description	Qty
KL-0121-611	Line Clamp, 5/16"	1
KL-0121-612	Line Clamp, 3/8"	1
KL-0121-613	Line Clamp, 1/2"	1
KL-0121-614	Line Clamp	1
KL-0121-6190	Plastic Storage Case	1



Technical Data:

Size:	5/16", 3/8", 1/2", Banjo-Fitting
Length:	109mm





KL-0114-13
Double-Ended Ring Spanner Set (hex)

For brake bleeder valve.

Scope of Delivery:
KL-0114-13 Double-Ended Ring Spanner Set (hex)

Part No.	Description	Size (waf)
KL-0114-131	Doppel-Ringschlüssel	7x7mm
KL-0114-132	Doppel-Ringschlüssel	8x8mm
KL-0114-133	Doppel-Ringschlüssel	9x9mm
KL-0114-134	Doppel-Ringschlüssel	10x10mm
KL-0114-135	Doppel-Ringschlüssel	11x11mm

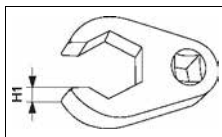
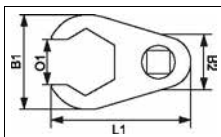


KL-0114-6
Brake Pipe Spanner

Universally applicable.
Used for loosening and tightening screwed brake pipe connections.
Forged design, angled with hexagon and slot.

Size (Hex with slot):	10mm and 11mm
Length:	175mm
Weight:	82g

5



KL-4076-301
Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if these are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

Scope of Delivery:
KL-4076-301 Crowfoot Wrench Set

Part No.	Size (waf)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Opening [O1]	Drive
KL-4076-3017	17mm	49mm	10mm	35mm	27mm	13mm	3/8"
KL-4076-3018	18mm	49mm	10mm	35mm	27mm	14mm	3/8"
KL-4076-3019	19mm	49mm	10mm	36mm	27mm	15mm	3/8"
KL-4076-3022	22mm	57mm	12mm	40mm	32mm	17mm	1/2"
KL-4076-3024	24mm	60mm	12mm	43mm	33mm	19mm	1/2"



KL-0128-31
Dial Gauge Stand with Dial Gauge

Designed to measure the wobble of brake discs. Can also be used for fine-tuning when repairing engines and transmissions. Features: Sturdy measuring rods made of bright steel, fine adjustment of the dial gauge clamp, prismatic base with switchable magnet.

Scope of Delivery:
KL-0128-31 Dial Gauge Stand with Dial Gauge

Part No.	Description	Qty
KL-0128-1	Dial Gauge, Ø 58mm	1
KL-0128-3	Dial Gauge Stand without Dial Gauge	1

KL-0140-40

Frame Micrometer, 0-25mm

Features a clamp ring and ratchet stop. The adjustable concealed spindle is hardened and ground. Comes with heat-insulating pads. Measuring range of from 0-25mm; surfaces chrome-plated.

Technical Data:

Measuring range:	0-25mm
Graduation:	0.5mm
Weight:	350g



KL-0140-41

Frame Micrometer, 25-50mm

Features a clamp ring and ratchet stop. The adjustable concealed spindle is hardened and ground. Comes with heat-insulating pads. Measuring range of from 25-50mm; surfaces chrome-plated.

Technical Data:

Measuring range:	25-50mm
Graduation:	0.5mm
Weight:	500g



KL-0140-32

Vernier Calliper for Brake Drums

Measuring surfaces made of hardened stainless steel, scale and slide manufactured from aluminum profile. Open slide, fixing screw, vernier with parallax-free reading.

Technical Data:

Measuring range:	500mm
Jaw:	250mm
Vernier:	1/20mm
Weight:	1,200g



5

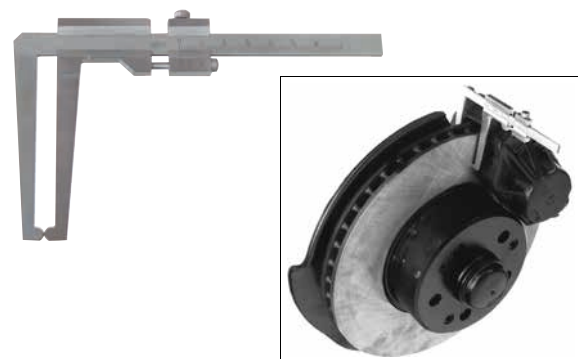
KL-0140-33

Vernier Calliper for Brake Disc

For measuring the thickness of brake discs in situ on the vehicle. The tool is hardened and features a locking screw. Rustproof, matt chrome-plated design.

Technical Data:

Measuring range:	50mm
Jaw:	75mm
Vernier:	1/10mm
Weight:	110g



KL-0140-38

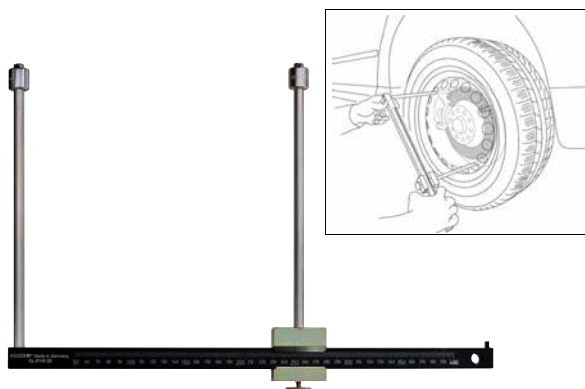
Vernier Calliper for HGV Brake Discs

For measuring the thickness of brake discs in situ on the vehicle. The tool is hardened and features a locking screw. Rustproof, matt chrome-plated design.

Technical Data:

Measuring range:	100mm
Jaw:	120mm
Vernier:	1/10mm
Weight:	240g





KL-0140-29

Vernier Caliper for Brake Discs

Universally suitable.

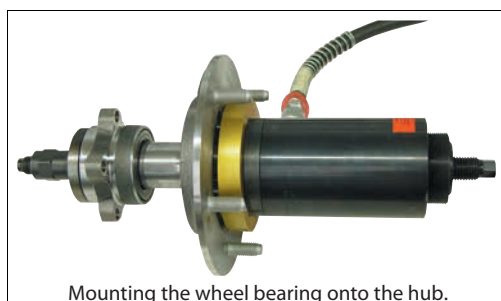
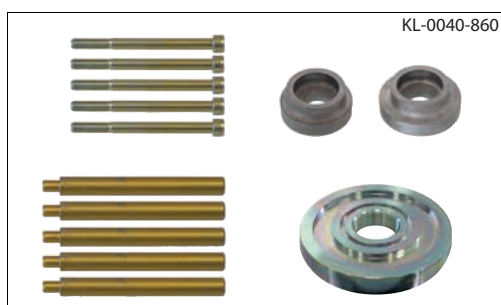
Designed to measure the diameter of brake discs without the need for removing the wheels from the vehicle.

Advantages:

- Allows for quick identification of the brake system.
- Helps to eliminate the risk of ordering wrong brake pads or brake discs.
- Reduces number of returns.
- Allows professional and cost-effective brake-servicing work to be carried out.
- Saves a lot of time.

Technical Data

Span (measuring range):	50-400mm
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Mounting the wheel bearing onto the hub.

KL-0040-86

Wheel Bearing Tool Set with Hydraulic Cylinder (28t), Ford Transit

Suitable for all the Ford Transit models from 2002 onwards equipped with brake disc fastening screws with pitch circle diameter 97.5 and 111mm, as well as for Tourneo front axle on vehicles with front or rear wheel drive.

To replace the specified brake discs or wheel bearings, it is usually necessary to pull out the wheel bearing along with the hub and brake disc from the wheel bearing housing. This tool set allows the removal and installation of the wheel bearing to be carried out in situ on the vehicle within a few minutes, without having to dismount the wheel bearing housing.

Note: A hydraulic pump such as **KL-0215-35 M28** is required to drive the hydraulic cylinder **KL-0040-2800**.

Scope of Delivery:

KL-0040-86 Wheel Bearing Tool Set with Hydraulic Cylinder (28t), Ford Transit

Part No.	Description	Qty
KL-0040-860	Wheel Bearing Tool Set, without Hydraulic Cylinder (28t)	1
KL-0040-2800	Hydraulic Cylinder (28t)	1
KL-0040-2812-1	Pull Spindle, M24x590mm	1
KL-0040-2812-2	Clamping Nut, M24, Ø 42mm	1

Scope of Delivery:

KL-0040-860 Wheel Bearing Tool Set without Hydraulic Cylinder (28t)

Part No.	Description	Qty
KL-0040-8601	Pressure Disc, Ø 77mm	1
KL-0040-8602	Pressure Disc, Ø 68mm	1
KL-0040-8501 A	Pressure Ring	1
KL-0039-1823-4	Cheese Head Screw, M10x120mm	5
KL-0040-8503	Mandrel	5

KL-0040-861

Upgrade Kit, Ford Transit Rear Axle

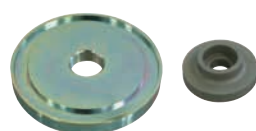
Suitable for Ford Transit (from 2006 onwards) rear axle, with front wheel drive.

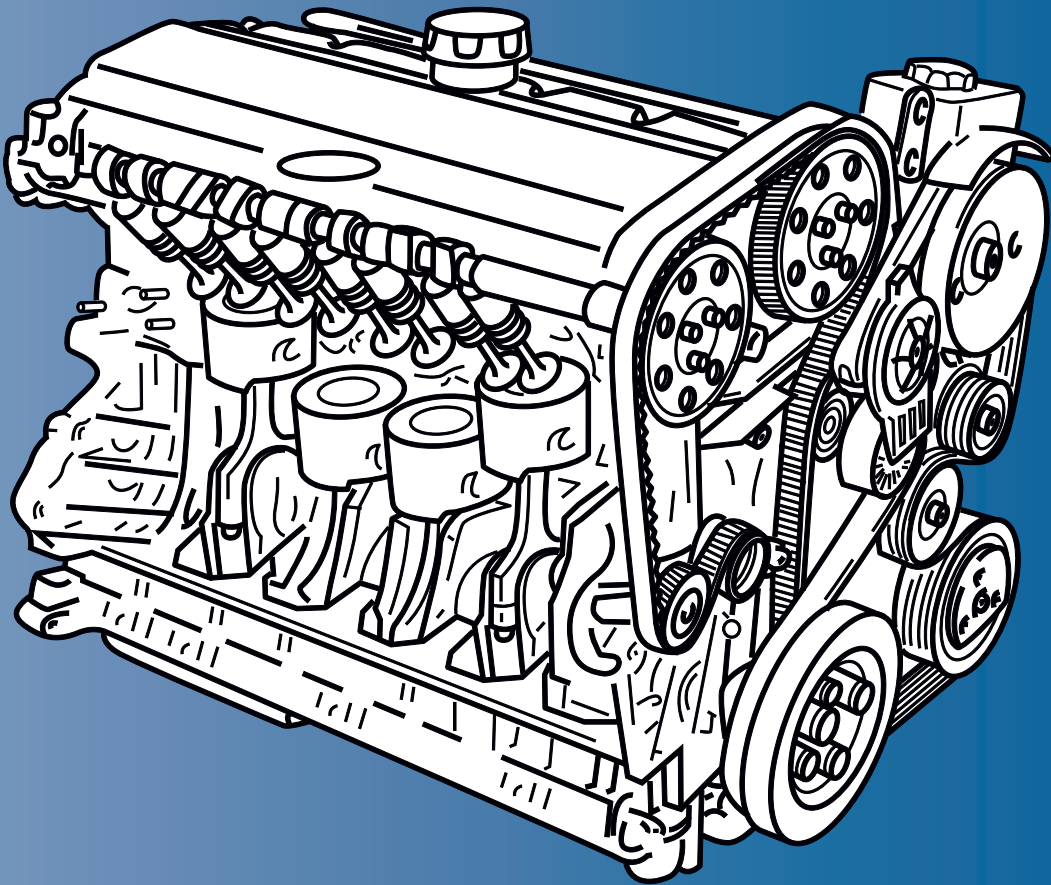
For removing the brake disc from wheel hub bearing units. Used in conjunction with wheel bearing tool set **KL-0040-86**.

Scope of Delivery:

KL-0040-861 Upgrade Kit, Ford Transit Rear Axle

Part No.	Description	Qty
KL-0040-8611	Pressure Disc, Ø 93mm	1
KL-0040-8612	Pressure Ring, Ø 186mm	1





Engine Maintenance/Repairs

6

High-Quality Special Tools...

...durable, safe and innovative



KIS

Klann Information System

The GEDORE/KLANN Information System „KIS“

Almost everyone has at some time experienced problems when it came to converting OEM Tool Numbers to the tool they needed.

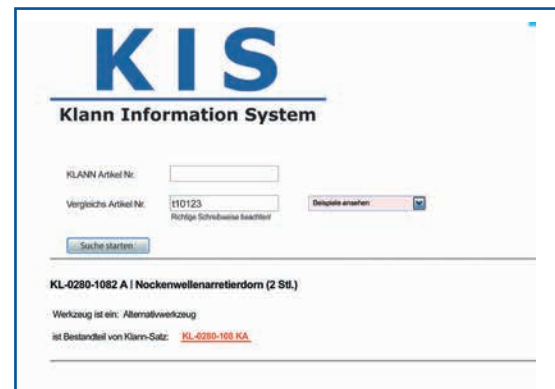
You have the OEM Tool Number from the repair manual and are now looking for the GEDORE/KLANN Special Tool. Converting OEM numbers to GEDORE/KLANN Special Tools has been so far very time-consuming for both garages and wholesalers. In order to solve this problem, we are now offering the Klann Information System „KIS“ on „www.klann-online.de“

This extensive OEM Part Number Data Base is designed to help you find the corresponding GEDORE/KLANN Part Number with ease.

Our system allows garages to quickly and easily identify the GEDORE/KLANN Special Tool they are looking for - for example, for the replacement of a timing belt.

The forward-looking Klann Information System „KIS“ is constantly updated and enhanced with new product ranges, thus always providing the latest information on the full range of the high-quality special tools and services from GEDORE/KLANN.

Easy determination of the right tool for the professional and trouble-free repair thanks to KIS - keeping it simple.



Converting OEM Tool Numbers to GEDORE/KLANN Part Numbers



KIS goes mobile...

For ultimate convenience and accessibility, GEDORE/KLANN now offers you the possibility to take full advantage of the “KIS” information system from the comfort of your mobile phone: quickly and easily convert OEM part numbers to GEDORE/KLANN specialist tools - wherever you are and whenever you need it.

Chapter 6 Overview

6.1 Cooling System

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6.2 Fuel System

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6.3 Cylinder Head / Engine Block

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6.4 Injection System

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6.5 Glow Plugs / Spark Plugs

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6.6 Engine Timing / Valve Train

Vehicle manufacturer-specific pages:

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VW-Audi, Seat, ŠkodaPage 6.6-05 to 6.6-29
BMWPage 6.6-29 to 6.6-37
MercedesPage 6.6-37 to 6.6-41
Ford.Page 6.6-42 to 6.6-51

Opel / VauxhallPage 6.6-51 to 6.6-64
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Honda, Rover.Page 6.6-88 to 6.6-89
Jap. vehiclesPage 6.6-89 to 6.6-92
VolvoPage 6.6-93 to 6.6-96
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6.7 Accessory Belt Drive System

Page 6.7-01 to 6.7-19

6.8 Oil System

Page 6.8-01 to 6.8-14

6.9 Exhaust System

Page 6.9-01 to 6.9-04



KL-0124-65 K Universal Cooling System Pressure Tester

Universally applicable to passenger cars and HGVs with coolant filler necks having an inner Ø of 28-36mm.

The universal **KL-0124-65 K** Cooling System Pressure Tester allows for the quick and easy pressure testing of cooling systems for leaks. The universal adaptor that comes with the kit ensures an airtight seal at the interface to the coolant/coolant filler neck and replaces more than 20 vehicle-specific radiator cap adaptors for passenger cars and HGVs.

Scope of Delivery:

KL-0121-20 Set of Hose Clamps (4-Piece Set)

Part No.	Description	Qty
KL-0124-651	Pump with Pressure Gauge	1
KL-0124-652	Universal Adaptor	1
KL-0124-653	Safety Belt	1
KL-0124-6590	Plastic Storage Case	1



6

KL-0284-8 Holding Tool

Applications: VW Polo, Golf, Passat and Audi A4, etc.

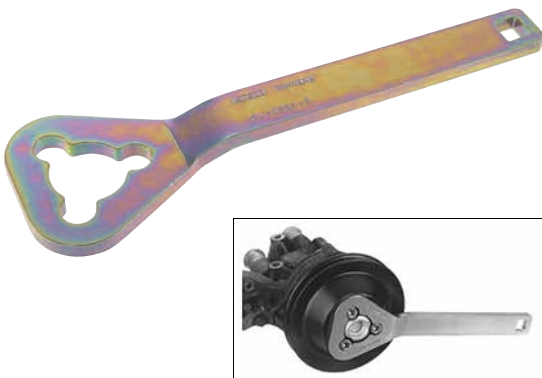
Designed to counter-hold the pulley on the power steering pump. For example necessary when loosening and tightening the fastening screws on the pulley.

Advantages:

- The 1/2" drive in the tool handle enables the tool to be extended, for example by a ratchet.
- Facilitates the loosening of stubborn fastening screws on the pulley.

Technical Data:

Length:	Height:	Inner Ø:	Screw retaining Ø:	Weight:
250mm	17mm	31mm	14mm	450g



KL-0284-11

Water Pump Holding Tool

Applications: VW-Audi etc.

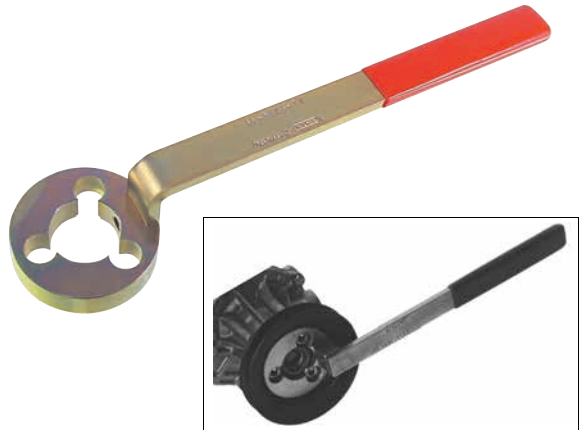
Designed to counter-hold **deep-drawn** water pump pulleys that are used when an air conditioning system is installed. For example necessary when loosening and tightening the fastening screws on the pulley.

Advantages:

- Safe locking of the water-pump pulley via the fastening screws.
- Facilitates the loosening of stubborn fastening screws on the water pump pulley.

Technical Data:

Length:	Height:	Inner Ø:	Screw retaining Ø:	Weight:
300mm	40mm	31mm	14mm	450g



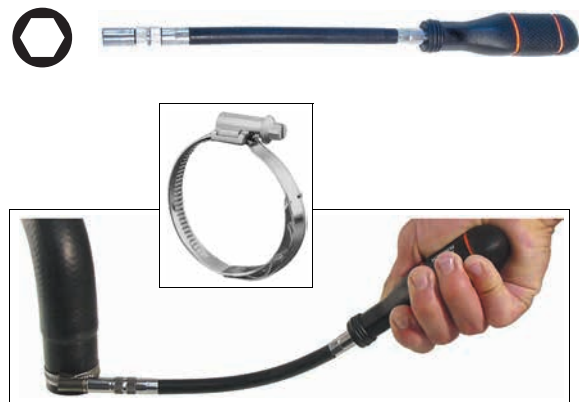
KL-0121-82

Hose Clamp Screwdriver, Size 6/7mm (waf)

For the quick and easy loosening and tightening of worm-drive hose clamps with size (waf) 6mm and 7mm - e.g. those used on fuel lines, oil coolers, radiator hoses and heater hoses. Even hose clamps that are hard to access can be reached without any problems thanks to the long, flexible shank of the tool.

Technical Data:

Size (waf):	6/7mm
Screwdriver overall length:	325mm
Shank length:	205mm
Weight:	160g



KL-0121-90

Hose Clamp Pliers

Intended for use on Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW, etc.

For the tightening of ear clamps (Oetiker System) on axle boots, radiator and fuel hoses.

Advantages:

- No damage to the ear clamps.
- No damage to the hoses.
- Thanks to the special design of the tool, the clamp head is being flattened while tightening the clamp. An important feature for applications where space is at a premium.

Technical Data:

Length:	240mm
Weight:	492g



KL-0121-93

Hose Clamp Pliers

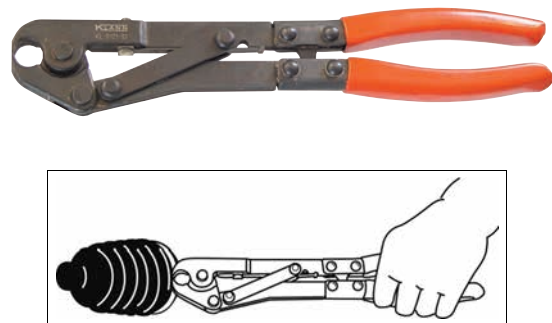
Suitable for use on Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW etc.

Efficient transmission of force and 2 working stages.

For the tightening of ear clamps (Oetiker System) on axle boots, radiator and fuel hoses.

Technical Data:

Length:	280mm
Weight:	475g





KL-0121-24

Hose Clamp Pliers (Angled 90°) with Ratchet Locking Mechanism

Suitable for Alfa Romeo, Audi, Citroën, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.

Designed for the replacement of fuel line, oil line, radiator and water hoses which are not retained by „Jubilee Type“ clips, but by reusable, self-tensioning hose clips. Special design of the pliers allows hose clips to be securely and safely gripped and held.

The hose clamp pliers enable the following clamps to be opened: Norma, ABA (AWAB), MIKALOR, MUBEA with Ø of from 18-53mm.

Technical Data:

Clamp Ø:	18-53mm
Length:	225mm
Clamp Angle:	90°
Weight:	403g

6



KL-0121-22

Hose Clamp Pliers (Straight Design) with Ratchet Locking Mechanism

Suitable for Alfa Romeo, Audi, Citroën, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.

Designed for the replacement of fuel line, oil line, radiator and heater hoses which are not retained by „Jubilee Type“ clips, but by reusable, self-tensioning hose clips. Special design of the pliers allows the hose clips to be securely and safely gripped and held.

The hose clamp pliers enable the following clamps to be opened: Norma, ABA (AWAB), MIKALOR, MUBEA with Ø of from 18-53mm.

Technical Data:

Clamp Ø:	18-53mm
Length:	273mm
Weight:	390g



KL-0121-23

Hose Clamp Pliers (Angled 110°), with Ratchet Locking Mechanism

Suitable for Alfa Romeo, Audi, Citroën, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.

Designed for the replacement of fuel line, oil line, radiator- and water hoses which are not retained by „Jubilee Type“ clips, but by reusable, self-tensioning hose clips. The special design of the pliers ensure that hose clips are safely gripped and securely held. The hose clamp pliers enable the following clamps to be opened: Norma, ABA (AWAB), MIKALOR, MUBEA with Ø of from 18-53mm.

Technical Data:

Clamp Ø:	18-53mm
Length:	285mm
Clamp Angle:	110°
Weight:	425g

KL-0121-21

Hose Clamp Pliers with Remote Operation (Bowden Cable with Flexible Tube)

With automatic locking ratchet.

Designed for the replacement of fuel lines, oil lines, radiator and water hoses, which are not retained by „Jubilee“ type clips, but by reusable, self-tensioning hose clips. The special design of the pliers ensure that hose clips are safely gripped and securely held.

Due to the possibility of pre-adjustment, the flexible tube ensures that even positions that are hard to access can be reached quickly and without any trouble.

Technical Data:

Clamp Ø:	18-53mm
Weight:	450g
Length:	225mm



KL-0121-2101

Bowden Cable with Flexible Tube (Spare)

KL-0121-2101



KL-0121-25

Hose Clamp Pliers with Remote Operation, Ratchet Locking Mechanism

Suitable for Alfa Romeo, Audi, Citroën, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.

This tool is designed to open self-tensioning hose clips, for example when replacing fuel line, oil line, radiator and heater hoses.

Remote operation enables even hard-to-access areas to be reached quickly and without any trouble. The special design of the pliers ensures that hose clips are safely gripped and securely held.

Technical Data:

Clamp Ø:	18-53mm
Length:	225mm
Clamp Angle:	90°
Weight:	403g

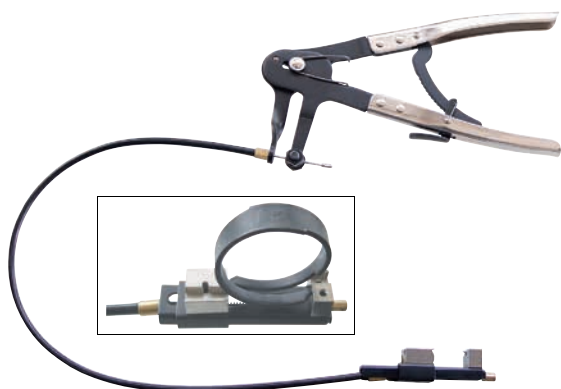


KL-0121-2501

Bowden Cable (Spare)

KL-0121-2501





KL-0121-1811



KL-0121-181 Hose Clamp Pliers with Remote Operation

Suitable for VW-Audi vehicles.

With automatic locking ratchet.

The pliers allow the user to quickly and easily open the newly developed turbo hose clips without damaging or, even worse, destroying them. Without the use of this tool it is almost impossible to open a hose clip without damaging the hose. Thanks to their remote operation, the pliers are particularly suitable for areas with difficult access, such as the charge air hose coupling under the battery box on VW Passat 2.0 TDI. The removal of the battery box is not necessary.

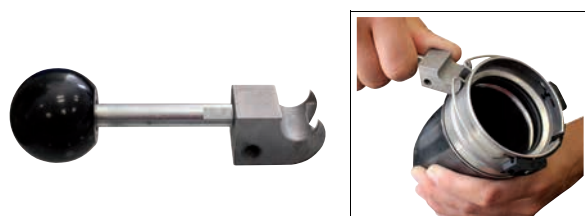
Advantages:

- Universal application.
- The tool is easy to operate.
- Does not damage the hose.

Technical Data:

Length:	240mm
Weight:	650g

KL-0121-1811 Bowden Cable (Spare)



KL-0124-59 Removal Tool for HENN® Clamps

Universally suitable for HENN® clamps as found on coolant hoses/charge air hoses. Installed, for example, in the following vehicles: VW-Audi, Seat, Škoda, BMW, Peugeot, Citroën, Dacia, Fiat, Ford, Kia, Lexus, Mazda, Mercedes, Nissan, Opel/Vauxhall, Porsche, Renault, Toyota, Volvo etc.

Designed for the professional loosening/opening of HENN® Clamps as found on coolant hoses/charge air hoses in passenger cars. An indispensable tool when removing/installing coolant hoses/charge air hoses etc.



KL-0284-821



KL-0284-822 A



KL-0284-823



KL-0284-82 K Water Pump Tool Set, VW T5/Touareg

Applications:

- **VW Transporter T5 (from 2004 onwards) 2.5 TDI (engine: AXE, AXD, BNZ)**
- **VW Touareg (from 2003 onwards) 2.5 TDI (engine: BAC, BPE)**

The tool set **KL-0284-82 K** is designed to turn the crankshaft, for example to TDC position, to counter-hold the crankshaft, for example when loosening the crankshaft central screw or the water pump sprocket fastening screw. It can also be used for the removal/extraction of the water pump sprocket and the water pump.

Advantages:

- Easy and quick extraction of the water pump.
- Accurate and professional working.
- Substantial time savings.

Technical Data:

Weight:	1.4kg
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Scope of Delivery: KL-0284-82 K Water Pump Tool Set, VW T5/Touareg

Part No.	Description	Qty
KL-0284-821	Water Pump Sprocket Puller; to remove the water pump sprocket when removing the water pump.	1
KL-0284-822 A	Water Pump Puller. Required for removing the water pump.	1
KL-0284-823	Key for Rotating the Crankshaft, VW. Designed to rotate/counter-hold the crankshaft. Necessary when setting the engine shafts to TDC position, and when loosening the sprocket fixing screw, for example, on the water pump.	1
KL-0284-8290	Plastic Storage Case (empty)	1

KL-0121-20

Set of Hose Clamps (4-Piece Set)

Used to clamp/close hoses during repairs.

For fuel, brake and water lines with Ø of from 10-45mm.

Scope of Delivery:

KL-0121-20 Set of Hose Clamps (4-Piece Set)

Part No.	Description	Qty
KL-0121-1	Clamp for Hose Ø of up to 10mm	1
KL-0121-2	Clamp for Hose Ø of up to 15mm	1
KL-0121-3	Clamp for Hose Ø of up to 24mm	1
KL-0121-4	Clamp for Hose Ø of up to 45mm	1



KL-0121-10

Set of Hose Clamps (3-Piece Set)

Used to clamp/close hoses during repairs.

For fuel, brake and water lines.

Scope of Delivery:

KL-0121-10 Set of Hose Clamps (3-Piece Set)

Part No.	Description	Qty
KL-0121-1	Clamp for Hose Ø of up to 10mm	1
KL-0121-2	Clamp for Hose Ø of up to 15mm	1
KL-0121-3	Clamp for Hose Ø of up to 24mm	1



KL-0121-511

Hose Clamp Pliers

With automatic locking ratchet. (Release of the locking mechanism takes place automatically when opening the pliers; unlocking the ratchet is not necessary.)

Thanks to the special design of the flexible clamping jaws, damage to the hose is avoided during the clamping process.

For the quick and easy clamping of hoses such as water hoses, fuel lines etc. with Ø of up to approx. 35mm.

Technical Data:

Weight:	334g
Length:	245mm
For hose Ø:	of up to approx. 35mm



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KL-0121-70

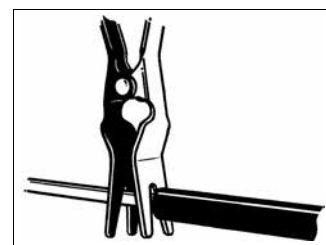
Hose Removal Pliers

Designed for the quick removal (loosening) of fuel, air and water hoses featuring a diameter of from 4mm to 13mm.

The gunmetal-finish jaw of the pliers cramps the metal tube while the hose is being easily pushed off by the bright-finish jaw.

Technical Data:

Length:	200mm
Weight:	227g





KL-0121-26

Hose Clamp Pliers with Ratchet Locking Mechanism

Suitable for Alfa Romeo, Citroën, Fiat, Ford, Hyundai, Lancia, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Škoda, Toyota, Volvo, etc. especially required for the new clips on fuel lines on VW-Audi vehicles.

For the removal and installation of fuel lines, oil lines, radiator hoses and heater hoses fitted with space-saving, re-usable, self-clamping spring hose clips. The special design of the pliers ensures that the hose clips are safely gripped and securely held. The following makes of hose clips require these pliers: Norma, ABA (AWAB), MIKALOR and MUBEA etc.



KL-0121-28

Hose Clamp Pliers (angled 90°), with Ratchet Locking Mechanism

Suitable for Alfa Romeo, Citroën, Fiat, Ford, Hyundai, Lancia, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Škoda, Toyota, Volvo, etc. especially required for the new clips on fuel lines on e.g. VW-Audi vehicles.

For the removal and installation of fuel lines, oil lines, radiator hoses and heater hoses fitted with space-saving, re-usable, self-clamping spring hose clips. The special design of the pliers ensures that the hose clips are safely gripped and securely held. 90° angled pliers with laterally offset retaining slots.

Following makes of hose clips require these pliers: Norma, ABA (AWAB), MIKALOR and MUBEA etc.

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KL-0121-29

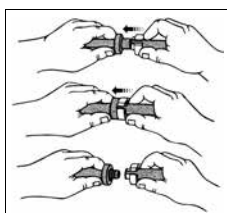
Hose Clamp Pliers with Ratchet Locking Mechanism

Suitable for Alfa Romeo, Citroën, Fiat, Ford, Hyundai, Lancia, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Škoda, Toyota, Volvo, etc. especially required for the new clips on fuel lines on VW-Audi.

For the removal and installation of fuel lines, oil lines, radiators hoses and heater hoses fitted with space-saving, re-usable, self-clamping spring hose clips. The special design of the pliers ensures that hose clips are securely gripped and safely held.

Pliers with vertically mounted retaining slots.

Following makes of hose clips require these pliers: Norma, ABA (AWAB), MIKALOR and MUBEA etc.



KL-0121-36

Set of Release Clips

Suitable for Chrysler, Ford, GM, Opel/Vauxhall, Saab, VW etc.

The release clips of the KL-0121-36 set are designed to unlock the CLIC spring lock couplings on air-conditioning systems and fuel lines.

The couplings of different sizes are to be unlocked from the front side.

Sizes: 7.9mm (5/16"), 9.5mm (3/8"), 12.7mm (1/2"), 15.9mm (5/8"), 19mm (3/4"), 22.2mm (7/8").

KL-0121-94 Hose Clamp Pliers

For CLIC clips.

Suitable for Audi, Citroën, Fiat, Mercedes, Opel/Vauxhall, Peugeot, Renault, VW etc.

Used to open and close the reusable hose clamp types CLIC and CLIC-R (Caillau/Serflex).

Technical Data:

Weight:	270g
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KL-0121-340 Set of 3 Fuel Line Pliers

Pliers designed to open connectors on fuel lines. Suitable for Chrysler, Chevrolet, Citroën, Fiat, Ford, Opel/Vauxhall, Peugeot, Pontiac, Renault, VW etc.

On fuel lines connected by "snap-fit" connections, the connectors can be released using pliers **KL-0121-32** for Ø 8mm, and **KL-0121-33** for Ø 10mm fuel lines. (The release segments are to be found on the reverse side of the connector in the axis of the line).

For connectors on Opel/Vauxhall, GM, Fiat, etc. where the release segments are activated from the side, the **KL-0121-34** pliers (2 tips 6.5x6mm) are required.

Technical Data:

	KL-0121-32	KL-0121-33	KL-0121-34
Fuel Line Ø:	8mm	10mm	GM/Opel/Vauxhall
Length:	110mm	110mm	115mm
Weight:	75g	75g	70g

Scope of Delivery: KL-0121-340 Set of 3 Fuel-Line Pliers

Part no.	Description	Qty
KL-0121-32	Fuel Line Pliers, for Ø 8mm	1
KL-0121-33	Fuel Line Pliers, for Ø 10mm	1
KL-0121-34	Fuel Line Pliers, for GM/Opel/Vauxhall	1



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KL-0121-37 Fuel Line Pliers

Suitable for Opel/Vauxhall, Fiat, GM, VW etc.

For loosening the quick-release connections on fuel feed pipe lines where the unlocking segments can be reached from the side.

Technical Data:

Weight:	190g
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KL-0192-22 Safety Clip Pliers

Suitable for VW-Audi, e.g.: Audi A3, VW Golf IV vehicles fitted with a petrol engine.

Used to release fuel line connectors. Indispensable, for example, when changing the fuel filter.

Suitable for Mercedes W124, W140 and W202.

For the installation of the retaining clips securing the chrome strip on the bumper of Mercedes W124, W140 and W202.

For this purpose, the pliers are equipped with special clip retaining notches.

Technical Data:

Length:	210mm
Weight:	200g



KL-0121-38 Fuel Line Pliers

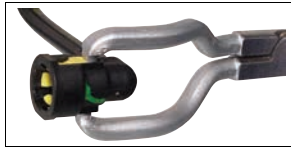
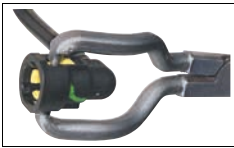


Suitable for VW-Audi, Fiat, GM, Opel/Vauxhall, Mercedes etc., e.g. Mercedes M-Class with petrol engine.

This tool is used for unlocking and locking fuel line connectors on fuel filters. Required when replacing a fuel filter or during engine repairs.

To open the locking: Pull the unlocked connector backwards with the pliers.

To close the locking: Slide the connector forwards with the pliers to lock.



Technical Data:

Length:	225mm
Weight:	170g

KL-0511-50 Disconnect Tool for Leakage Fuel Line



Applicable to the BMW M57 (D306D2, D306D3, D306D4, D306D5, D30T2) 6-cylinder Diesel engines. As installed in BMW 3 Series (E90, E91, E92, E93); 5 Series (E60, E61); 6 Series (E63, E64); 7 Series (E65, E66); X3 (E83); X5 (E70) and X6 (E71).

Indispensable tool to professionally disconnect the leakage fuel line from injectors. Improper removal methods, for example, by using a pair of pliers, may cause damage to the leakage fuel line resulting in the entire line in the engine compartment to be replaced.

6

KL-0482-42 B Diesel Suction Pump with 70cm Hose, Opel/Vauxhall



**Suitable for use on Opel/Vauxhall 2.0 and 2.2 Ecotec Diesel engines with VP 44 injection pump.
(Engine codes: X20DTL, X20DTH, X22DTH)**

This pump is needed to bleed the fuel system if the latter has been opened, for example, for a fuel filter replacement or for an engine repair.



KL-0482-420 B



KL-0482-420 B Hose, 700mm

The 700mm hose **KL-0482-420 B** upgrades the **KL-0482-42 A** diesel suction pump to the **KL-0482-42 B** version.

KL-0124-41 K

Pressure- and Vacuum Hand Pump

Universally applicable. Allows for the quick and easy checking of pressure- and vacuum systems as well as for the extraction of liquids such as fuels, brake fluids etc. (e.g. when bleeding the brake).

Especially required for checking the following:

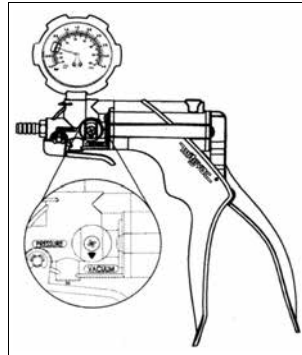
Fuel-System, Vacuum Diaphragm, Vacuum Sensor, Exhaust Gas Recirculation Valve, Fuel Pressure Regulator, Vacuum Modulator on, e.g., Automatic Transmission, Brake Booster, Turbo Charger Valves, Fuel Pump Diaphragm, Leak Tightness on Lines etc.

Technical Data:

Vacuum measuring range:	from 0-1.0 bar
Pressure measuring range:	from 0-4.0 bar
Display:	Pressure gauge
Max. volume of drain bottle:	500ml
Weight:	1.4kg

Scope of Delivery: KL-0124-41 K Pressure- and Vacuum Hand Pump

Part No.	Description	Qty
KL-0124-4100	Hand Pump with Pressure Gauge	1
KL-0124-4101	Bleeding Adaptor Set	1
KL-0124-4102	Vacuum Cap Set	1
KL-0124-4103	Diagnostic Adaptor Set	1
KL-0124-4104	Drain Bottle set	1
KL-0124-4105	Hose (2 pieces)	1
KL-0124-4106	Hose Connector	1
KL-0124-4190	Plastic Storage Case	1



KL-0121-75

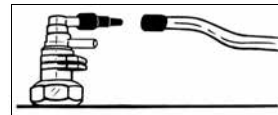
Set of Vacuum Line Plugs

Universally suitable for pressure, vacuum and fuel lines.

The pairs of plugs of this set are used for sealing off pressure-/vacuum- and fuel lines. The different pairs of plugs are colour-coded for easy line identification after repairs. The set contains 48 different adaptors of from 3.2mm (1/8") to 12.7mm (1/2").

Technical Data:

Weight:	200g
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6

KL-0121-61 K

Universal Line Clamp Set

Universally suitable for brake, fuel, hydraulic and power steering lines with 5/16", 3/8", 1/2" union nuts and banjo fittings.

Used to seal off opened line connections on brake, fuel, hydraulic and power steering line systems. The universal line clamps are designed to help you prevent any leakage of automotive fluids from opened lines, thus eliminating the risk of contamination of the workplace.

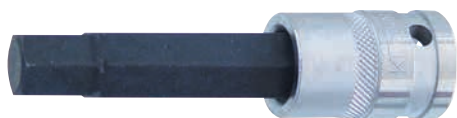
Technical Data:

Size:	5/16", 3/8", 1/2", Banjo-Fitting
Length:	109mm

Scope of Delivery: KL-0121-61 K Universal Line Clamp Set

Part No.	Description	Qty
KL-0121-611	Line Clamp, 5/16"	1
KL-0121-612	Line Clamp, 3/8"	1
KL-0121-613	Line Clamp, 1/2"	1
KL-0121-614	Line Clamp	1
KL-0121-6190	Plastic Storage Case	1





1/2"

KL-4021-3113

Screwdriver Bit Socket, Size (waf) 13mm, 100mm, 1/2"

Applicable to the 4-Cylinder TDI Pumpe Düse (unit injector) engines as found in VW-Audi, Seat, Škoda vehicles.

The special socket **KL-4021-3113** allows for the quick and trouble-free loosening and tightening of the central retaining bolt on fuel cooling units - necessary, for example, when replacing the fuel filter. This special socket may also be used to remove and install the brass inserts on injector valves in Audi petrol engines from 1990 onwards.

Technical Data:

Drive:	1/2"
Profile:	Hex.
Length:	100mm
Size:	13mm



KL-0120-80

Fuel Tank Sensor Spanner Set (adjustable)

Universal application.

For loosening and tightening the plastic lock ring of the fuel sensor on fuel tanks.

Scope of Delivery: KL-0120-80 Fuel Tank Sensor Spanner Set (adjustable)

Part No.	Description	Range:	Drive:
KL-0120-801	Fuel Tank Sensor Spanner, Ø 80-120mm	80-120mm	24mm
KL-0120-802	Fuel Tank Sensor Spanner, Ø 110-170mm	110-170mm	24mm



1/2"



KL-0122-56

Fuel Filter Socket, Size (waf) 27mm

Suitable for the Citroën, Peugeot, Fiat and Ford 2.0 HDI Diesel engines as found in: Citroën C4, C5, C8, Jumpy; Peugeot 307, 308, 407, 508, 607, 807, Expert; Fiat Scudo, Ulysse; Ford C-Max, Focus, Galaxy, Kuga, S-Max.

This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

Technical Data:

Drive (square):	1/2"
Length:	85mm
Size:	27mm



3/8"



KL-0122-701

Fuel Filter Socket, Ø 109mm

Suitable for the Peugeot, Citroën, Fiat, Lancia, Suzuki vehicles equipped with either a 2.0 or 2.2 HDI Diesel engine such as: Peugeot 206, 307, 406, 607, 807; Citroën C5, C8, Berlingo, Jumpy, Xsara; Fiat Scudo, Ulysse; Lancia Phedra, Zeta; Suzuki Vitara, Grand Vitara I.

This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

Technical Data:

Profile:	Ø 109mm
Drive (square):	3/8"

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm



KL-0122-702

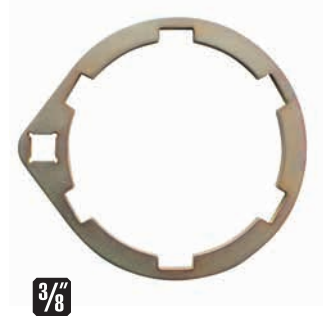
Fuel Filter Socket, Ø 82mm

Suitable for Volvo Diesel vehicles equipped with fuel filter cartridge such as S60, S80, V70, XC70, XC 90, with 2.4 D or 2.4 D5 engines.

This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

Technical Data:

Drive:	3/8"
Internal Ø:	82mm
Ribs:	6 ribs



KL-0122-608

Fuel Filter Socket, Ø 109mm

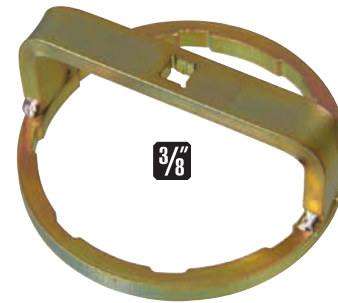
Suitable for Peugeot, Citroën, Renault, Fiat and Lancia etc.

For Fuel Filter with Ø 109mm and 8 Ribs.

This fuel filter socket is required to remove and install the fuel filter cap when replacing the fuel filter cartridge.

Technical Data:

Drive (square):	3/8"
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KL-0122-610

Fuel Filter Socket, Ø 109mm, 6 Ribs

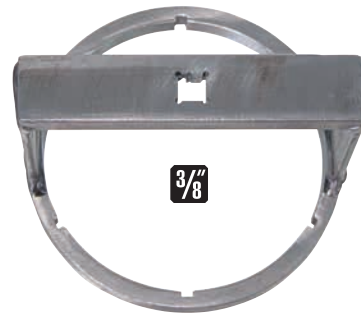
Suitable for Fiat 1.3, 1.9 JTD and Opel/Vauxhall 2.0 Diesel engines: Antara (from 2007 onwards), Insignia (from 2009 onwards). Engine code : A 20 DTJ, Z 20 DMH.

For fuel filters with Ø 109mm and 6 ribs.

This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

Technical Data:

Drive (square):	3/8"
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6

KL-0289-10

Fuel Filter Cap Installation Tool

Suitable for the VW-Audi, Seat and Škoda Diesel vehicles fitted with a UFI fuel filter unit.

Very useful tool allowing for the torsion-free mounting of fuel filter caps on fuel filters; required, for example, after changing the fuel filter cartridge.

The fuel filter cap installation tool is designed to press the fuel filter cap evenly and in a torsion-free manner into the seal seat in the fuel filter housing. Then, the fuel filter can be fixed according to the manufacturer's instructions.

Scope of Delivery:

KL-0289-10 Fuel Filter Cap Installation Tool

Part No.	Description	Qty
KL-0289-102	Spindle with T-Handle	1
KL-0289-101	Base Tool	1
KL-0289-103	Thrust Piece	1



Note: If a fuel filter cap is inserted into the seal seat in the fuel filter housing without the use of our special tool but by means of the fastening screws, there is a risk that the fuel filter cap is subjected to torsional stress during installation which could lead to leakage in the fuel filter unit.



KL-0123-61 K Fuel Filter Bleeding Tool Kit

Universal application.

Designed to enable easy bleeding of fuel systems; for example, after changing the fuel filter or having performed maintenance work on the fuel system.

Thanks to the adaptors included in the kit, the bleeding tool is compatible with and can quickly be connected to virtually any common fuel system.

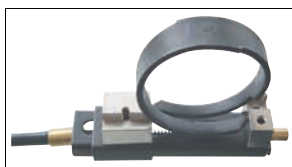
The clear hose of the fuel filter bleeding tool (suction side) allows the user to visually check for air bubbles during the bleeding process.

Scope of Delivery:

KL-0123-61 K Fuel Filter Bleeding Tool Kit

Part No.	Description	Qty
KL-0123-6101	Adaptor Hose, 8mm, 1m long	1
KL-0123-6102	Hand Pump with Hoses, 0.5m	1
KL-0123-4811-1	Adaptor SAE, 8x20mm (red)	1
KL-0123-4812-1	Adaptor SAE, 8x30mm (yellow)	1
KL-0123-4813-1	Adaptor SAE, 9.5x20mm (grey)	1
KL-0123-4814-1	Adaptor SAE, 10x20mm (green)	1
KL-0123-4815-1	Adaptor SAE, 10x30mm (blue)	1
KL-0123-4816-1	Adaptor NG8 Type 246 (white)	1
KL-0123-4817-1	Adaptor, Ø 6mm (light blue)	1
KL-0123-4818-1	Adaptor, Ø 8mm (pink)	1
KL-0123-4819-1	Adaptor, Ø 10mm (purple)	1
KL-0123-4820-1	Adaptor, 11.8x25mm (brown)	1
KL-0123-4821-1	Adaptor NG12 Type 246 (orange)	1
KL-0123-4822-1	Adaptor, Ø 12mm (black)	1
KL-0123-6190	Plastic Storage Case with Insert	1

6



KL-0121-1811



KL-0121-181 Hose Clamp Pliers with Remote Operation

Suitable for VW-Audi vehicles.

With automatic locking ratchet.

The pliers allow the user to quickly and easily open the newly developed turbo hose clips without damaging or, even worse, destroying them.

Without the use of this tool it is almost impossible to open a hose clip without damaging the hose.

Thanks to their remote operation, the pliers are particularly suitable for areas with difficult access, such as the charge air hose coupling under the battery box on VW Passat 2.0 TDI. The removal of the battery box is not necessary.

Advantages:

- Universal application.
- The tool is easy to operate.
- Does not damage the hose.

Technical Data:

Length:	240mm
Weight:	650g

KL-0121-1811 Bowden Cable (Spare)

KL-0124-59

Removal Tool for HENN® Clamps

Universally suitable for HENN® clamps as found on coolant hoses/charge air hoses. Installed, for example, in the following vehicles: VW-Audi, Seat, Škoda, BMW, Peugeot, Citroën, Dacia, Fiat, Ford, Kia, Lexus, Mazda, Mercedes, Nissan, Opel/Vauxhall, Porsche, Renault, Toyota, Volvo etc.

Designed for the professional loosening/opening of HENN® Clamps as found on coolant hoses/charge air hoses in passenger cars. An indispensable tool when removing/installing coolant hoses/charge air hoses etc. The handle of the tool can be unscrewed and repositioned by 90 degrees. This allows even HENN® Clamps which are difficult to access to be loosened/opened with ease.



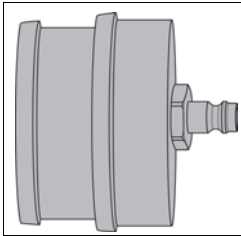
KL-0124-51 K

Test Tool Kit for Charge-Air Systems

Universally suitable for charge-air systems that are sealed with hose clamps.

The **KL-0124-51 K** test tool kit is designed to quickly, professionally and safely check charge-air systems for leaks. The sealing- and adaptor plugs allow the complete charge-air system to be squeezed off and pressurized with the aid of a tyre inflator. Seal tightness checks can then be performed by means of a leak detector spray, but leaks can also be detected by leak-generated noises or a drop in pressure. Any leakage on connections, tubes, hoses, charge-air coolers or turbochargers can quickly and easily be detected and localised using this tool. The special design of the plugs ensure that they are securely held in place throughout the whole leak-checking procedure. All the plugs from this kit are made of solid special material and, as a result, feature an excellent slip-resistant surface. They are specifically designed to accurately fit the respective connectors of the vehicle charge-air systems. All plugs are equipped with a safety bead which ensures that the plug is securely held in the hose even if there is still oil residue in it. Compact shape with fewer stages for ease of use and safety have been given top priority in the design of these plugs making them particularly suitable for narrow designs or for charge-air hoses with strong bending - there, where conventional plugs won't fit.

The kit is composed of 6 pairs of plugs (2-stage, with safety bead) with diameters Ø 35/40mm, Ø 45/50mm, Ø 55/60mm, Ø 55/60mm, Ø 65/70mm, Ø 75/80mm, Ø 85/90mm, a pressure relief valve, an extension tube (for narrow designs), a hose clamp driver with flexible shaft (waf 6/7mm), and is supplied in a plastic storage case.



Advantages:

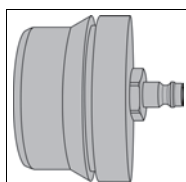
- Made of solid special material.
- Safety bead and slip-resistant surface ensure a secure fit.
- Compact design.
- Universal application.
- Composition of the kit proven very useful in practice.
- All components are available individually as spare parts.

Scope of Delivery:

KL-0124-51 K Test Tool Kit for Charge-Air Systems

Part No.	Description	Qty
KL-0124-5135	Pair of Sealing/Adaptor Plugs, Ø 35/40mm	1
KL-0124-5145	Pair of Sealing/Adaptor Plugs, Ø 45/50mm	1
KL-0124-5155	Pair of Sealing/Adaptor Plugs, Ø 55/60mm	1
KL-0124-5165	Pair of Sealing/Adaptor Plugs, Ø 65/70mm	1
KL-0124-5175	Pair of Sealing/Adaptor Plugs, Ø 75/80mm	1
KL-0124-5185	Pair of Sealing/Adaptor Plugs, Ø 85/90mm	1
KL-0124-511	Pressure Relief Valve, 1.3bar	1
KL-0124-512	Extension Hose	1
KL-0124-513	Adapter Hose Kit (3-pc.)	1
KL-0121-82	Hose Clamp Screwdriver, 6/7mm (waf)	1
KL-0124-5190	Plastic Storage Case	1





KL-0124-52 K Test Tool Kit for Charge-Air Systems

Universally suitable for charge-air systems equipped with air tubes/hoses that are connected by means of a click system as can be found in new generation vehicles.

The **KL-0124-52 K** test kit is designed to quickly, professionally and safely check charge-air systems for leaks. The sealing- and adaptor plugs allow the complete charge-air system to be squeezed off and pressurized with the aid of a tyre inflator. Seal tightness checks can then be performed by means of a leak detector spray, but leaks can also be detected by leak-generated noises or a drop in pressure. Any leakage on connections, tubes, hoses, charge-air coolers or turbochargers can quickly and easily be detected and localised using this tool kit.

The special design of the plugs ensure that they are securely held in place throughout the whole leak-checking procedure. All the plugs from this kit are made of solid special material and specifically designed to accurately fit the connectors of the respective vehicle charge-air system. The kit is composed of 6 pairs of plugs (NW26, NW32, NW40, NW45, NW50, NW55), a pressure relief valve, an extension hose (for narrow designs), and is supplied in a plastic storage case.

Advantages:

- Made of solid special material.
- Safety bead and slip-resistant surface ensure a secure fit.
- Compact design.
- Universal application.
- Composition of the kit proven very useful in practice.
- All components are available individually as spare parts.

Scope of Delivery: KL-0124-52 K Test Tool Kit for Charge-Air Systems

Part No.	Description	Qty
KL-0124-5226	Pair of Sealing/Adaptor Plugs, Ø 26mm	1
KL-0124-5232	Pair of Sealing/Adaptor Plugs, Ø 32mm	1
KL-0124-5240	Pair of Sealing/Adaptor Plugs, Ø 40mm	1
KL-0124-5245	Pair of Sealing/Adaptor Plugs, Ø 45mm	1
KL-0124-5250	Pair of Sealing/Adaptor Plugs, Ø 50mm	1
KL-0124-5255	Pair of Sealing/Adaptor Plugs, Ø 55mm	1
KL-0124-511	Pressure Relief Valve, 1.3bar	1
KL-0124-512	Extension Hose	1
KL-0124-5290	Plastic Storage Case	1

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KL-0286-20 Socket Wrench Set, (waf 10mm) for Pressure Capsule with Charge Pressure Actuator Position Sensor, VW

Suitable for the pressure capsule with charge pressure actuator position sensor at the exhaust gas turbocharger fitted to 2.0 Common Rail Diesel engines. For example found in: Golf VI (5K), Golf Plus (52), Jetta (1K), Passat (3C), Passat CC (35), Scirocco (13), Eos (1F), Tiguan (5N), Transporter T5 (from 2010 upwards, 7J, 7H, 7G, 7F) and Audi A3 (8P).

This tool set is designed for the professional loosening, adjustment and tightening of the control rod when removing/installing the pressure capsule along with the charge pressure actuator position sensor.

Note: If the control rod is not loosened, adjusted and tightened correctly, there is a risk of damage to the pressure capsule.

Technical Data:

Width across flats (KL-0286-2001):	10mm
Width across flats (KL-0286-2002):	10/12mm
Length (KL-0286-2001):	50mm
Length (KL-0286-2002):	144x55mm
Drive:	1/4"

Scope of Delivery: KL-0286-20 - Socket Wrench Set, (waf 10mm)

Part No.	Description	Qty
KL-0286-2001	Socket (waf 10mm)	1
KL-0286-2002	Combination Spanner (bent design), waf 10/12mm	1



KL-0123-31 K

Fuel Return Flow Test/Diagnosis Kit

Universally suitable for vehicles fitted with high-pressure injectors whose fuel return lines are individually accessible.

The **KL-0123-31 K** Fuel Return Flow Test/Diagnosis Kit is designed for the professional measurement of the fuel return flow, return pressure and, optionally, the return flow temperature in a closed circuit. It allows the user to perform up to five important measurements/checks simultaneously: the absolute fuel return volume per injector (ml/min), the comparison of the return flow volume of up to six injectors at the same time, the return flow pressure (0-6bar), any formation of air bubbles in the return flow, and optionally, the return flow temperature.

Advantages:

- Short installation time, thanks to a confusion-proof coupling system.
- Designed for virtually all Bosch-, Siemens-, Denso- and Delphi injection systems (also Piezo).
- In conjunction with an engine diagnostic device, also long-term testing at several rotational speeds and engine temperatures are possible.
- Pressure gauge and analogue temperature sensor (accessories) connectable.

Scope of Delivery:

KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit (Passenger Cars)

Part No.	Description	Qty
KL-0123-3100	Fuel Return Flow Tester, 6 Cylinders, 2-40 ml/min	1
KL-0123-3101	Adaptor Hose Set (2-pc.), 70cm	6
KL-0123-3105	Pressure Gauge, 0-16bar	1
KL-0123-3111	Adaptor (Pair), Bosch Piezo & Continental	6
KL-0123-3112	Adaptor (Pair), Bosch Solenoid Valve and Siemens/VDO	6
KL-0123-3113	Adaptor (Pair), Bosch Solenoid Valve (2nd Generation)	4
KL-0123-3114	Adaptor (Pair), Denso	4
KL-0123-3115	Adaptor (Pair), Delphi I	4
KL-0123-3116	Adaptor (Pair), Delphi II	4
KL-0123-3192	Foam Insert	1
KL-0123-3193	Plastic Storage Box	10
KL-0123-3191	Plastic Storage Case	1



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KL-0123-3102

Analogue Temperature Sensor, 0 to +120°C

A useful complement to our KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit.



KL-0123-3104

Pressure Gauge, -1 to 0 bar

A useful complement to our KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit.



KL-0123-310

Extension Hose Set (12-pc.), 140cm

Compatible with the KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit.

Designed to extend the adaptor hoses of the **KL-0123-31 K** Fuel Return Flow Test/Diagnosis Kit.

Technical Data:

Hose Length:	140cm
Connection:	Coupling nipple





KL-0123-41 K

Low-Pressure Circuit Test/Diagnosis Kit, Passenger Cars

Universally suitable for Common-Rail Diesel engines.

The **KL-0123-41 K** Low-Pressure Circuit Test/Diagnosis Kit allows for the professional testing of the low pressure circuit (measurement of the forward delivery and return pressure). The following basic tests can be performed quickly and easily to check for:

- delivery of fuel from the tank, • air bubbles in the fuel system, • fuel contamination.

These measurements/tests can be carried out both while the vehicle is stationary and while driving.

Scope of Delivery: KL-0123-41 K Low-Pressure Circuit Test/Diagnosis Kit

Part No.	Description	Qty
KL-0123-4201	Adaptor Hose, 6mm, 2m long	2
KL-0123-4203	Pressure Gauge (-1 to 5 bar), with Fitting and Protective Cap	1
KL-0123-4204	Pressure Gauge (-1 to 15 bar), with Fitting and Protective Cap	1
KL-0123-4205	T-Connector, SAE, 8 x 20mm (red)	1
KL-0123-4206	T-Connector, SAE, 8x30mm (yellow)	1
KL-0123-4207	T-Connector, SAE, 9.5x20mm (grey)	1
KL-0123-4208	T-Connector, SAE, 10x20mm (green)	1
KL-0123-4209	T-Connector, SAE, 10x30mm (blue)	1
KL-0123-4210	T-Connector, NG8 Type 246 (white)	1
KL-0123-4211	T-Connector, Ø 6mm (brown)	1
KL-0123-4212	T-Connector, Ø 8mm (orange)	1
KL-0123-4213	T-Connector, Ø 10mm (purple)	1
KL-0123-4214	T-Connector, 11.8x25mm (light-blue)	1
KL-0123-4192	Foam Insert	1
KL-0123-4191	Plastic Storage Case	1

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KL-0123-44 K

High-Pressure Circuit Test/Diagnosis Kit, Passenger Cars

Universally applicable to Common Rail Diesel engines.

The **KL-0123-44 K** high-pressure circuit test/diagnosis kit for passenger cars allows for quick, easy and safe pressure testing the high-pressure circuit (forward delivery) of Common Rail Diesel engines with a maximum working pressure of up to 2500 bar. The digital high-pressure gauge, the special high-pressure hoses and adaptors that come with the kit, allow for accurate pressure tests of the high-pressure circuit in a closed loop between rail and injector, as well as identifying the minimum/maximum pressure value. A special feature of the kit is the 2.5m long cable, which is connected to the pressure gauge, making it possible to test the pressure also during a test drive. The flexible hoses enable pressure measurements to be made even in areas that are difficult to access.

Technical Data:

Max. admissible pressure:	2,500bar
Measuring range (High-Pressure Gauge):	0-2,500bar
High-pressure line (angle):	45°, 90°, 135°, 180°
High-pressure hose (length):	0.6m

Scope of Delivery: KL-0123-44 K High-Pressure Circuit Test/Diagnosis Kit

Part No.	Description	Qty
KL-0123-441	High-Pressure Hose, 0.6m; M14x1.5 IG	2
KL-0123-442	Measuring Cable with Connector Plug	1
KL-0123-443	Set of High-Pressure Lines (4-pc.); M12x1.5 IG to M14x1.5 IG; 45°/90°/135°/180°	1
KL-0123-4401	High-Pressure T-Connector, 9/16" IG	1
KL-0123-4402	High-Pressure Diesel Adaptor, M14x1.5 AG to 9/16" AG	2
KL-0123-4403	High-Pressure Adaptor, 9/16" AG to 9/16" AG	1
KL-0123-4404	Pressure Sensor, 0-2500bar; 9/16" IG; 4-20mA	1
KL-0123-4405	Inspection Certificate according to DIN EN 10204-3.1	1
KL-0123-4406	Digital High-Pressure Gauge	1
KL-0123-4407	High-Pressure Thread Adaptor, M12x1.5 to M14x1.5	2
KL-0123-4408	High-Pressure Thread Adaptor, M14x1.5 to M14x1.5	2
KL-0123-4492	Foam Insert	1
KL-0123-4491	Plastic Storage Case	1

KL-0123-48 K

Fuel System Cleaning/Diagnostic Kit, with Auxiliary Tank

Universally suitable for vehicles with suction pump.

The **KL-0123-48 K** Fuel System Cleaning/Diagnostic Kit with Auxiliary Tank is designed for the quick, easy and professional operation of the engine in a separate circuit with the vehicle fuel tank disconnected. Necessary for the detection and diagnosis of faults between the tank and, for example, fuel filter, high-pressure pump etc. The kit also allows for the professional cleaning of the injection system with a specific fuel/cleaning fluid mixture.

Scope of Delivery: KL-0123-48 K Fuel System Cleaning/Diagnostic Kit

Part No.	Description	Qty
KL-0123-4800	Auxiliary Tank (10l)	1
KL-0123-4801	Adaptor Hose, 8mm, 4m long	2
KL-0123-4802	Hand-Operated Diaphragm Pump with Plug Fitting	1
KL-0123-4811	Adaptor Set (3-piece), SAE 8x20mm (red)	1
KL-0123-4812	Adaptor Set (3-piece), SAE 8x30mm (yellow)	1
KL-0123-4813	Adaptor Set (3-piece), SAE 9.5x20mm (grey)	1
KL-0123-4814	Adaptor Set (3-piece), SAE 10x20mm (green)	1
KL-0123-4815	Adaptor Set (3-piece), SAE 10x30mm (blue)	1
KL-0123-4816	Adaptor Set (3-piece), NG8 Type 246 (white)	1
KL-0123-4817	Adaptor Set (3-piece), Ø 6mm (brown)	1
KL-0123-4818	Adaptor Set (3-piece), Ø 8mm (orange)	1
KL-0123-4819	Adaptor Set (3-piece), Ø 10mm (purple)	1
KL-0123-4820	Adaptor Set (3-piece), 11.8x25mm (light-blue)	1
KL-0123-4821	Adaptor Set (3-piece) NG12 Type 246 (pink)	1
KL-0123-4822	Adaptor Set (3-piece), Ø 12mm (black)	1
KL-0123-4892	Foam Insert	1
KL-0123-4291	Plastic Storage Case	1



KL-0123-53 K

Test/Diagnosis Kit 3 for Urea Dosage/Injection Systems

Universally suitable for use on Common Rail Diesel engines as found in passenger cars and light goods vehicles equipped with a Denoxtronic 3.1, 5 or 5.1 urea dosage/injection system from Bosch; as fitted to VW-Audi, BMW, Mazda, Mercedes, Mitsubishi etc.

Used in conjunction with an appropriate diagnostic tester, the **KL-0123-53 K** Test/Diagnosis Kit 3 allows for the quick, trouble-free and professional checking of the injection volume, injection pressure, spray pattern, as well as for various visual inspections. It is also designed to rinse the complete system with water, as well as bleed the systems when refilling with (AdBlue®) urea solution. The oil test paper is used to detect any mineral oil contaminations in the AdBlue® fluid.

Scope of Delivery: KL-0123-53 K Test/Diagnosis Kit 3

Part No.	Description	Qty
KL-0123-5301	Pressure Control Unit, -1 up to 15bar	1
KL-0123-5302	Extension Hose, 2m	1
KL-0123-5303	Adaptor (for rinsing), 6.3x20mm	1
KL-0123-5304	Oil Test Paper	1
KL-0123-5305	Table Scale, 0-1200g	1
KL-0123-5306	Refractometer, AdBlue, with Accessory	1
KL-0123-5307	Reservoir with Retention Feature, Denoxtronic 3.1; 5; 5.1	1
KL-0123-5308	Test Paper, Ø 90mm (100 Units)	1
KL-0123-5309	Extension Cable, 2m	1
KL-0123-5310	Coolant-Connecting Hose	1
KL-0123-5392	Foam Insert	1
KL-0123-5391	Plastic Storage Case	1



Technical Data:

Pressure Control Unit: -1 up to 15bar

KL-0123-500

Hand Pump for Urea Solution

Universal application.

The hand pump for urea solution, with a filling capacity of up to 1.5 litres, allows for the contamination-free transfer of urea solutions (AdBlue®) from a container into a vehicle-side urea tank. The pump is also suitable for the suction cleaning of contaminated urea solutions from the tank. The transparent design and graduated scale of the hand pump allow for the precise dosing of the urea solution. The mechanical shut-off valve on the pump prevents any spillage of the urea solution during transfer.



Technical Data:

Filling capacity: 1.5l

KL-0125-1 A

(Universal)

Universal Valve Spring Compressor

Suitable for the cylinder heads (1-12 cylinder engines - two-valve to four-valve technology) on in-line engines or V-type engines.

The **KL-0125-1 A** valve spring compressor allows for the replacement of valve stem seals, both with the cylinder head removed or in situ on the vehicle.

The retaining flanges are rotatable on the spindles, so that they can be affixed to the cylinder head transversally or in parallel relative to the camshaft axis as necessary.

The correct position of the adjusting bar can be achieved by turning the adjusting spindles on the left- and right-hand side, thus obtaining the correct angle for compressing the valve spring.

The special design of the tool allows for variable adjustment making the compressor suitable for use on virtually any engine with up to 12 cylinders.

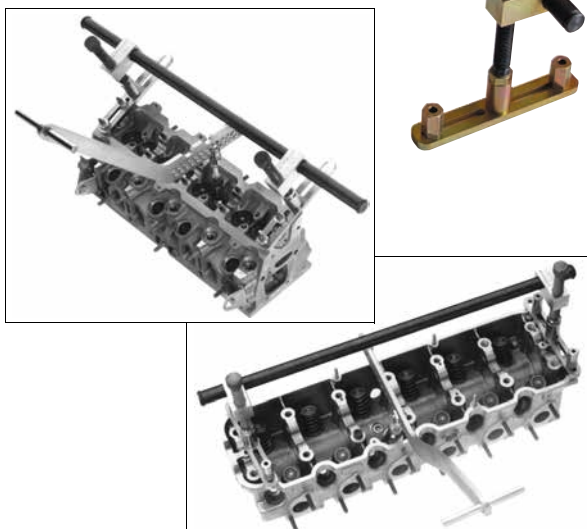
Advantages:

- Substantial job time savings - thanks to the possibility of repairing both the valve stem seals and valve springs in-situ on the vehicle without the need to remove the cylinder head.
- Universal application - thanks to different installation and adjustment possibilities.

Scope of Delivery:

KL-0125-1 A Universal Valve Spring Compressor

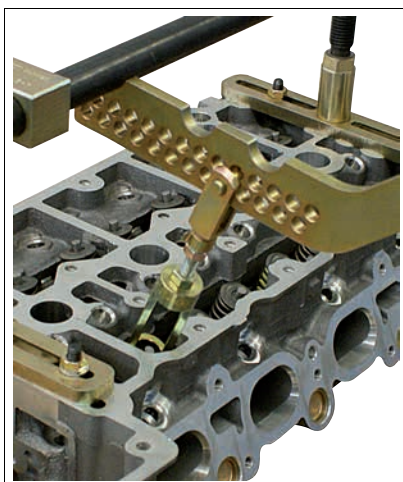
Part No.	Description	Qty
KL-0125-100	Stand	2
KL-0125-1006	Rod	1
KL-0125-1007	O-Ring, Ø 17x4mm	2
KL-0125-1008	Pressure Lever	1
KL-0125-1009	Set Screw, M8x5	1
KL-0125-1010-A	Fork Head with Folding Spring Bolt, M8x32mm	1
KL-0125-1011	Nut	4
KL-0125-1015	Pressure Piece (standard), 34mm	1
KL-0035-0003	Hex Nut, M8	2



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KL-0125-....

Pressure Pieces for KL-0125-1 A



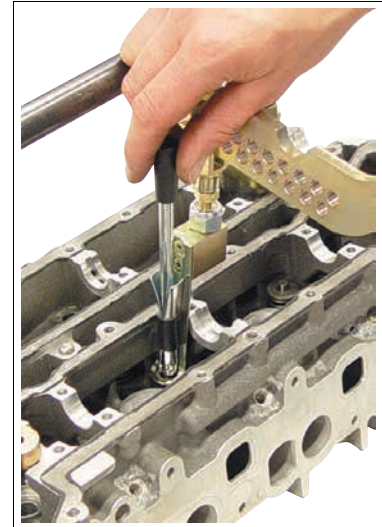
Part No.	Description	Application	Outer Ø
KL-0125-1035	Pressure Piece	Peugeot/Citroën HDI	21mm
KL-0125-1033	Pressure Piece	Opel/Vauxhall, Seat, VW-Audi	24mm
KL-0125-1034	Pressure Piece	Hyundai	25mm
KL-0125-1022	Pressure Piece	Toyota, Ford 16V	28mm
KL-0125-1023	Pressure Piece	Nissan	30mm
KL-0125-1021	Pressure Piece	Toyota	31mm
KL-0125-1024	Pressure Piece	Opel/Vauxhall, Peugeot	32mm
KL-0125-1025	Pressure Piece	Renault 19 and Clio	33mm
KL-0125-1015	Pressure Piece	BMW, VW, Peugeot Diesel	34mm
KL-0125-1026	Pressure Piece	Renault, Mazda, Peugeot 106, Mercedes M102, M104	35mm
KL-0125-1027	Pressure Piece	Fiat	37mm
KL-0125-1028	Pressure Piece	Peugeot, Citroën	38mm
KL-0125-1031	Pressure Piece	Mercedes OM 601, 602, 603	40mm
KL-0125-1029	Pressure Piece	Ford	42mm
KL-0125-1030	Pressure Piece	Fiat Diesel	44mm

KL-0125-1032	Pressure Piece (open)	BMW-M40	34mm
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KL-0125-61..

Pressure Pieces

Part No.	Description	Application	Outer Ø
KL-0125-6121	Pressure Piece	Peugeot/Citroën HDI	21mm
KL-0125-6122	Pressure Piece	Mercedes, Smart	22mm
KL-0125-6124	Pressure Piece	VW-Audi, Seat, Smart, Opel/Vauxhall	24mm
KL-0125-6125	Pressure Piece	Hyundai	25mm
KL-0125-6126	Pressure Piece	Mercedes, VW	26mm
KL-0125-6128	Pressure Piece	Toyota, Ford	28mm
KL-0125-6130	Pressure Piece	Nissan	30mm
KL-0125-6131	Pressure Piece	Toyota	31mm
KL-0125-6132	Pressure Piece	Opel/Vauxhall; Peugeot	32mm



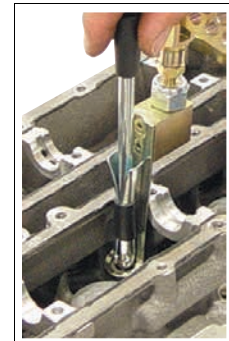
KL-0125-60

Valve Collet Assembly Tool Set

For installing valve collets.

Re-installing valve collets with three grooves can be difficult if space is restricted, valve springs are located deep inside the cylinder head or valve springs are recessed deeply into bucket tappet guides.

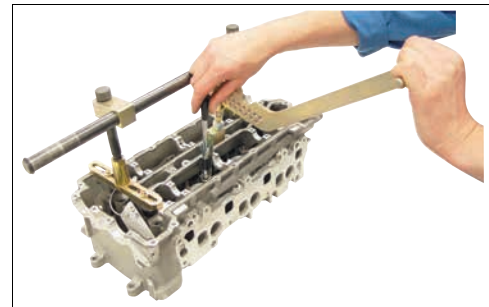
The new **KL-0125-6.. Series** of valve collets assembly tools, together with the matching pressure pieces from the **KL-0125-61.. Series** and the **KL-0125-1 A** valve spring compressor, makes the installation of single- and three-groove valve collets safe and easy, whether the cylinder head is on the engine or removed. This is particularly important if valve stem seals have to be renewed without removing the cylinder head from the vehicle.



Scope of Delivery:

KL-0125-60 Valve Collet Assembly Tool Set

Part No.	Description	Application	Ø
KL-0125-601	Valve Collet Assembly Tool, Ø 5mm	Opel/Vauxhall, VW-Audi	5mm
KL-0125-602	Valve Collet Assembly Tool, Ø 6mm	Smart, VW-Audi	6mm
KL-0125-603	Valve Collet Assembly Tool, Ø 7.8mm	Mercedes	7,8mm



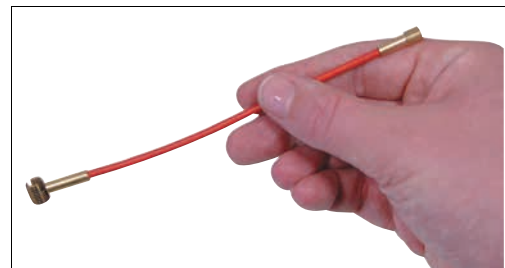
KL-0126-221

Magnetic Valve Collet Lifter (flexible)

With this flexible mini magnetic lifter, metallic objects can be removed even from the smallest crack. The **KL-0126-221** magnetic lifter is particularly suitable for lifting/removing valve collets.

Technical Data:

Length:	200mm
Weight:	6g
Magnet-Ø 3 mm power:	150g
Magnet-Ø 4 mm power:	270g





KL-0127-1

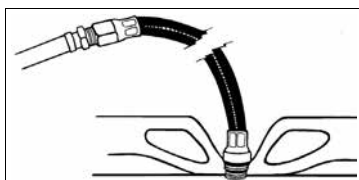
Compressed Air Adaptor

For connecting to spark plug thread holes.

The compressed air adaptor allows compressed air to be applied to the cylinder being repaired. This is required to keep the valves up and closed during replacement of the valve stem oil seals with the cylinder head in place.

Technical Data:

Connection Threads:	M12x1.25 and M14x1.25
Length:	170mm



KL-0127-20

Compressed Air Hose, M14x1.25/M18x1.5

For connecting to spark plug thread holes.

This flexible hose allows compressed-air supply into the determined cylinder even under confined space conditions. This is required to keep the valves up and closed during replacement of the valve stem oil seals without removal of the cylinder head.

Technical Data:

Connection Threads:	M14x1.25 and M18x1.5
Length:	305mm
Compressed Air side:	1/4"-18 NPT
Weight:	120g



Technical Data:

Connection thread:	M8x1
Length:	178mm
Tube:	Ø 12x80mm

KL-1383-118

Compressed Air Adaptor for Glow Plug Bore

Universally applicable to Citroën, Fiat, Ford, Lancia, Mercedes, Opel/Vauxhall, Suzuki, Volvo etc.

(Engine Codes: 169 A1.000, 188 A8.000, 188 A9.000, 199 A2.000, 199 A3.000, 199 A9.000, 199 B1.000, 199 B4.000, 223 A9.000, 263 A2.000, A13DTC, D13A, DT17, DT20, FD4, OM639, OM640, OM642, OM651, Y13DT, Z13DT, Z13DTH, Z13DTJ)

With the aid of the **KL-1383-118** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.



KL-0369-55 B

Compressed Air Adaptor for Glow Plug Bore

Universally applicable to, e.g., BMW, Mercedes, Chrysler, Opel/Vauxhall, Nissan, Renault etc.

With the aid of the **KL-0369-55 B** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

Technical Data:

Thread:	M10x1
Length:	178mm
Pipe Ø:	15x110mm



Technical Data:

Connection Thread:	M10x1.25
Length:	207mm
Tube Ø:	15mm

KL-0186-1631

Compressed Air Adaptor

for M10x1.25 Glow Plug Bore, Toyota/Lexus

Universally applicable to Diesel engines e.g. Opel/Vauxhall (A17DTJ, A17DTC, A17DTE, A17DTS); Toyota and Lexus (1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND]) etc.

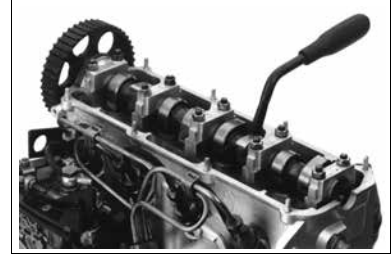
With the aid of the **KL-0186-1631** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

KL-0280-3

Valve Depressor, VW-Audi

Suitable for use on the VW-Audi 4-cylinder engines from 1983 onwards and all other 5- and 6-cylinder engines with bucket tappets.

Intended for valve timing. Used in conjunction with valve shim pliers KL-0280-1.



KL-0281-2

Valve Spring Compressor

Suitable for use on VW-Audi engines from 1.3 onwards, until model year 1993.

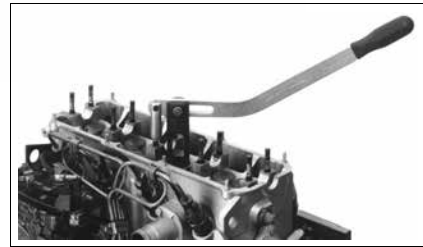
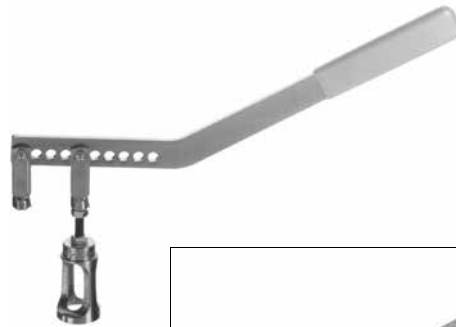
Provided with a fork head for 8mm cylinder head studs. Suitable for the removal and installation of valve springs.

Pressure piece KL-0125-1015, metal design.

Scope of Delivery:

KL-0281-2 Valve Spring Compressor

Part No.	Description	Qty
KL-1381-2003	Lever with Safety Handle	1
KL-0125-1010-A	Fork Head with Folding Spring Bolt, M8x32mm	2
KL-0125-1009	Set Screw, M8x50mm	1
KL-0035-0003	Hex Nut, M8	2
KL-0125-1015	Pressure Piece (standard), 34mm	1



KL-0281-2001

Fork Head, for 7mm Studs

Applicable to VW Polo, (Golf II und III) with a 1.4 or 1.6 engine.



6

KL-1381-2

Valve Spring Compressor, Peugeot

Intended for use on Peugeot.

For valve springs with a bucket tappet Ø of 38mm.

The valve depressor enables the removal and installation of valve springs both with the cylinder head being removed or installed.

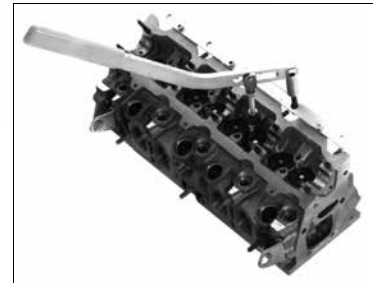
The pressure pieces are interchangeable to fit the respective bucket tappet Ø.

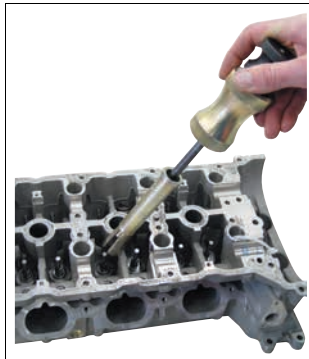
Please see tool KL-0125-1 A.

Scope of Delivery:

KL-1381-2 Valve Spring Compressor, Peugeot

Part No.	Description	Qty
KL-1381-2001	Bar	1
KL-1381-2002	Hex Screw, M6x20mm	3
KL-1381-2003	Lever with Safety Handle	1
KL-1381-2005	Hex screw M8x60mm	1
KL-0125-1010	Fork Head with Folding Spring Bolt, M8x16mm	2
KL-1381-2006	Set Screw, M8x60mm	1
KL-0035-0003	Hex Nut, M8	2
KL-0125-1028	Pressure Piece, 38mm, Peugeot	1





KL-0049-13

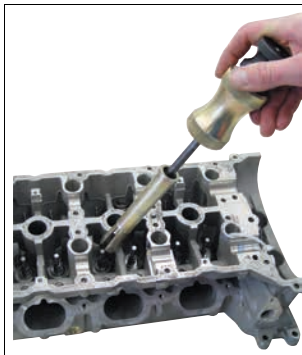
Slide Hammer Puller for Valve Stem Seals

For Valve Stem Sealing Rings. Applicable to bucket tappets with diameters of from 23mm-26mm (e.g. Audi engines with 5 valves per cylinder).

The **KL-0049-13** slide hammer puller for valve stem sealing rings can be used universally. The special design of the tool allows even stuck valve stem oil seals to be removed quickly and easily, without any risk of damage to the bucket tappets of the cylinder head.

Scope of Delivery: KL-0049-13 Slide Hammer Puller for Valve Stem Seals

Part No.	Description	Qty
KL-0049-130	Collet Chuck for Valve Stem Seals (small)	1
KL-0049-100	Slide Hammer Puller (Base Tool)	1
KL-0049-1205	Plastic Sleeve	1



KL-0049-12

Slide Hammer Puller for Valve Stem Seals

For Valve Stem Sealing Rings.

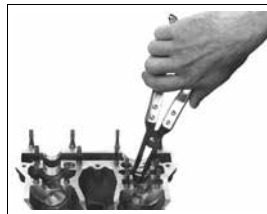
Applicable to bucket tappets with diameters of from 26mm upwards.

The **KL-0049-12** slide hammer puller for valve stem sealing rings can be used universally. The special design of the tool allows even stuck valve stem oil seals to be removed quickly and easily, without any risk of damage to the bucket tappets of the cylinder head.

Scope of Delivery: KL-0049-12 Valve Stem Seal Slide Hammer Puller

Part No.	Description	Qty
KL-0049-120	Collet Chuck for Valve Stem Seals	1
KL-0049-100	Slide Hammer Puller (Base Tool)	1
KL-0049-1205	Plastic Sleeve	1

6



KL-0126-61

(Universal)

Removal Pliers for Valve Stem Seals (ultra long design)

For Valve Stem Sealing Rings

The special long, slim design of the pliers allows for quick, easy and safe removal of valve stem oil seals, even from engines with 4-valve cylinder heads.



KL-0125-71



KL-0125-70

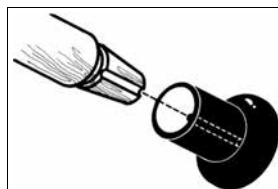
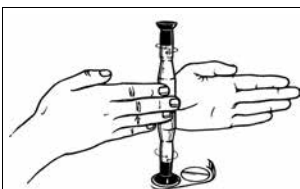
KL-0125-71

Valve Lapper Tool, Ø 29/35mm

Used for hand lapping valves. The tool is equipped with two suction cups in different sizes designed to hold and rotate the valves for lapping operations.

Technical Data:

For valve head Ø:	29/35mm
Length:	225mm
Weight:	60g



KL-0125-70

Valve Lapper Tool, Ø 16/21mm

Technical Data:

For valve head Ø:	16/21mm
Length:	210mm
Weight:	25g

KL-0126-43

Piston Ring Pliers

Suitable for most passenger cars and vans.

Designed to remove and install piston rings with size of 1.2-6.3mm.

Technical Data:

Weight:	115g
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KL-0181-1

Stud Tool, 3/8"

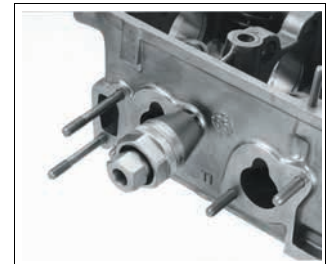
(Universal)

Universal tool, infinitely adjustable.

Designed to screw in and unscrew studs with diameter of 6-12mm.

Advantages:

- Infinitely adjustable.
- Suitable for use in very limited space conditions.
- Also suitable for screws with rusted or stripped threads.
- Also suitable for screws with undersize.



Technical Data:

Drive:	3/8"
Clamping range:	6-12mm
Weight:	450g

KL-0140-60

Precision Straightedge, 500 mm

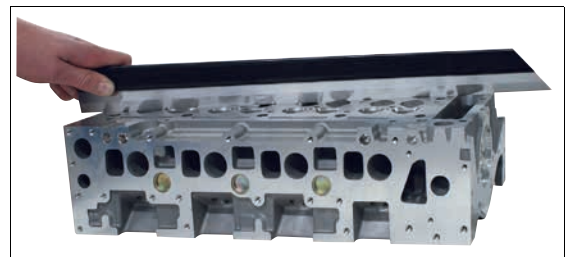
Suitable for cylinder heads with up to 4 cylinders.

Edges hardened, ground, lapped, with heat shield.

Technical Data:

Length:	500mm
Quality Description:	Stainless steel
Cross section:	40x7mm
Weight:	960g

Accessory: **KL-0140-6101** Wooden case for precision straightedge



KL-0140-61

Precision Straightedge, 600mm

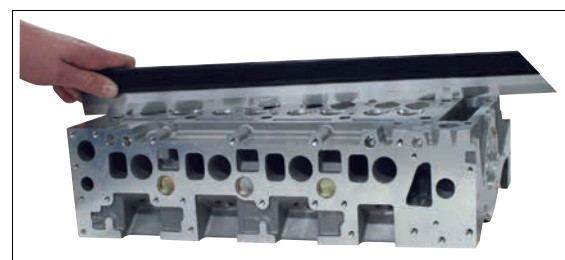
Suitable for Cylinder Heads with up to 6 cylinders.

Edges hardened, ground, lapped, with heat shield.

Technical Data:

Length:	600mm
Quality Description:	Stainless steel
Cross section:	40x7mm
Weight:	1,200g

Accessory: **KL-0140-6101** Wooden case for Precision straightedge





KL-0128-31

Dial Gauge Stand with Dial Gauge

Designed to measure the wobble of brake discs. Can also be used for fine-tuning when repairing engines and transmissions. Features: Sturdy measuring rods made of bright steel, fine adjustment of the dial gauge clamp, prismatic base with switchable magnet.

Scope of Delivery:

KL-0128-31 Dial Gauge Stand with Dial Gauge

Part No.	Description	Qty
KL-0128-1	Dial Gauge, Ø 58mm	1
KL-0128-3	Dial Gauge Stand without Dial Gauge	1



KL-0128-1

Dial Gauge, Ø 58mm

Spindle and clamping shank made of stainless steel, design and measurement accuracy according to DIN 878-A.

Technical Data:

Dial graduation:	0.01mm
Measuring range:	10mm
Housing Ø:	58mm
1 pointer revolution:	1mm
Clamping shank Ø:	8mm



KL-0128-3

Dial Gauge Stand without Dial Gauge

Sturdy measuring rods made of bright steel, dial gauge holder with fine adjustment, prismatic base with switchable magnet.

6



1/2"

Technical Data:

Size:	11mm
Profile:	Hex
Drive:	1/2"
Length:	100mm

KL-4021-3111

Screwdriver Bit Socket, Size (waf) 11mm, 100mm, 1/2"

Applicable to VW-Audi, Seat, Škoda engines.

The **KL-4021-3111** bit socket allows for the removal and installation of the plastic insert for injector valves on VW-Audi petrol engines.



1/2"

Technical Data:

Drive:	1/2"
Profile:	Hex.
Length:	100mm
Size:	13mm

KL-4021-3113

Screwdriver Bit Socket, Size (waf) 13mm, 100mm, 1/2"

Applicable to the 4-Cylinder TDI Pumpe Düse (unit injector) engines as found in VW-Audi, Seat, Škoda vehicles.

The special socket **KL-4021-3113** allows for the quick and trouble-free loosening and tightening of the central retaining bolt on fuel cooling units - necessary, for example, when replacing the fuel filter. This special socket may also be used to remove and install the brass inserts on injector valves in Audi petrol engines from 1990 onwards.

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-4046-362

Socket Set, Torx®, long, 1/2"

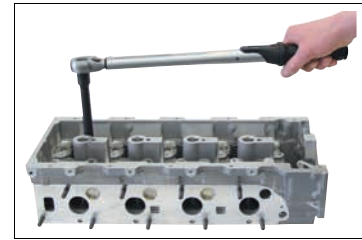
Applicable to BMW, Mercedes CDI engines, etc.

These Torx® Sockets in extended length with a built-in magnet enable the loosening and tightening of cheese-head screws with external Torx® profiles.

Scope of Delivery:

KL-4046-362 Socket Set, Torx® E10 / E12 / E14 / E18, long, 1/2"

Part No.	Torx®	Drive	Length	Weight
KL-4046-3610	E10	1/2"	150mm	200g
KL-4046-3612	E12	1/2"	150mm	225g
KL-4046-3614	E14	1/2"	150mm	250g
KL-4046-3618	E18	1/2"	150mm	415g



® = registered trademark of Acument Intellectual Properties, LLC. USA

KL-4076-301

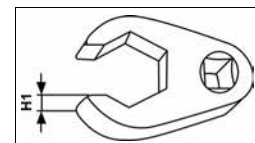
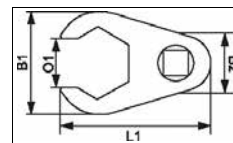
Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if these are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

Scope of Delivery:

KL-4076-301 Crowfoot Wrench Set

Part No.	Size (waf)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Opening [O1]	Drive
KL-4076-3017	17mm	49mm	10mm	35mm	27mm	13mm	3/8"
KL-4076-3018	18mm	49mm	10mm	35mm	27mm	14mm	3/8"
KL-4076-3019	19mm	49mm	10mm	36mm	27mm	15mm	3/8"
KL-4076-3022	22mm	57mm	12mm	40mm	32mm	17mm	1/2"
KL-4076-3024	24mm	60mm	12mm	43mm	33mm	19mm	1/2"



KL-4076-302

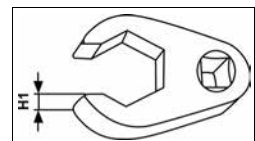
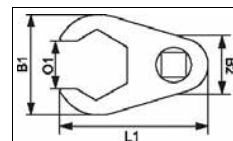
Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if they are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

Scope of Delivery:

KL-4076-302 Crowfoot Wrench Set

Part No.	Size (waf)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Opening [O1]	Drive
KL-4076-3027	27mm	62mm	12mm	48mm	34mm	23mm	1/2"
KL-4076-3030	30mm	68mm	12mm	52mm	37mm	24mm	1/2"
KL-4076-3032	32mm	72mm	13mm	56mm	39mm	26mm	1/2"



KL-4076-401

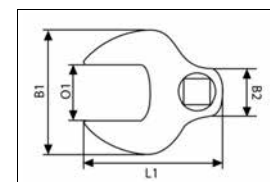
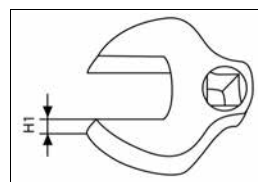
Crowfoot Wrench Set

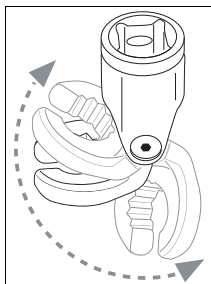
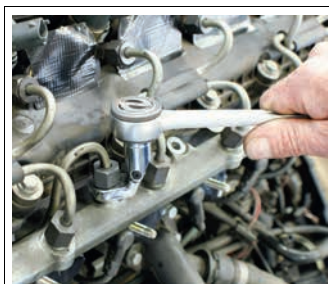
The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if they are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

Scope of Delivery:

KL-4076-401 Crowfoot Wrench Set

Part No.	Size (waf) [O1]	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Weight	Drive
KL-4076-3036	36mm	81mm	12mm	75mm	29mm	280g	1/2"
KL-4076-3041	41mm	89mm	13mm	88mm	30mm	380g	1/2"
KL-4076-3046	46mm	91mm	13mm	92mm	32mm	400g	1/2"





KL-4075-321 K

Flexible Crowfoot Socket Wrench Set

Universally suitable for screwed pipe connections, for example, on brake systems, injection systems etc.

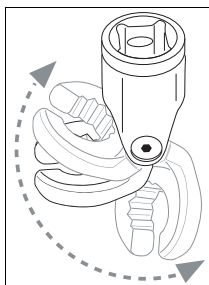
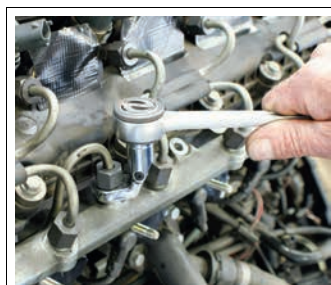
These tools are required for the loosening and tightening of screwed pipe connections. Thanks to the special design of the wrenches, even screw connections that are difficult to access can be reached quickly and without any trouble.

Technical Data:

Profile:	Double Hex
Drive:	3/8"

Scope of Delivery: KL-4075-321 K Flexible Crowfoot Socket Wrench Set

Part No.	Description	Qty
KL-4075-3214	Flexible Crowfoot Socket Wrench, Size (waf) 14mm, bi-hex, 3/8"	1
KL-4075-3216	Flexible Crowfoot Socket Wrench, Size (waf) 16mm, bi-hex, 3/8"	1
KL-4075-3217	Flexible Crowfoot Socket Wrench, Size (waf) 17mm, bi-hex, 3/8"	1
KL-4075-3218	Flexible Crowfoot Socket Wrench, Size (waf) 18mm, bi-hex, 3/8"	1
KL-4075-3219	Flexible Crowfoot Socket Wrench, Size (waf) 19mm, bi-hex, 3/8"	1
KL-4074-3190	Plastic Storage Case	1



KL-4074-311 KA

Flexible Crowfoot Socket Wrench Set

Universally suitable for screwed pipe connections, for example, on brake systems, injection systems etc.

These tools are required for the loosening and tightening of screwed pipe connections. Thanks to the special design of the wrenches, even screw connections that are difficult to access can be reached quickly and without any trouble.

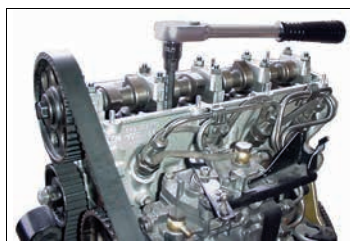
Technical Data:

Profile:	Hex
Drive:	3/8"

Scope of Delivery: KL-4074-311 KA Flexible Crowfoot Socket Wrench Set

Part No.	Description	Qty
KL-4074-3111	Flexible Crowfoot Socket Wrench, Size (waf) 11mm, hex, 3/8"	1
KL-4074-3112	Flexible Crowfoot Socket Wrench, Size (waf) 12mm, hex, 3/8"	1
KL-4074-3114	Flexible Crowfoot Socket Wrench, Size (waf) 14mm, hex, 3/8"	1
KL-4074-3116	Flexible Crowfoot Socket Wrench, Size (waf) 16mm, hex, 3/8"	1
KL-4074-3117	Flexible Crowfoot Socket Wrench, Size (waf) 17mm, hex, 3/8"	1
KL-4074-3118	Flexible Crowfoot Socket Wrench, Size (waf) 18mm, hex, 3/8"	1
KL-4074-3119	Flexible Crowfoot Socket Wrench, Size (waf) 19mm, hex, 3/8"	1
KL-4074-3190	Plastic Storage Case	1

6



Technical Data:

Drive:	1/2"
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KL-4051-331 B

Screwdriver Bit Socket Set RIBE®, 1/2", 8-piece

Suitable for FIAT engines with RIBE® screws.

For loosening and tightening RIBE® screws on cylinder head valve drive housings etc.

Scope of Delivery: KL-4051-331 B Screwdriver Bit Socket Set RIBE®, 1/2", 8-piece

Part No.	Description	Qty
KL-4051-3007	Screwdriver Bit Socket RIBE® M7, 55mm, 1/2"	1
KL-4051-3008	Screwdriver Bit Socket RIBE® M8, 55mm, 1/2"	1
KL-4051-3311	Screwdriver Bit Socket RIBE® M10, 140mm, 1/2"	1
KL-4051-3312	Screwdriver Bit Socket RIBE® M12, 140mm, 1/2"	1
KL-4051-3313	Screwdriver Bit Socket RIBE® M13, 140mm, 1/2"	1
KL-4051-3314	Screwdriver Bit Socket RIBE® M14, 140mm, 1/2"	1
KL-4051-3406	Screwdriver Bit Socket RIBE® M6, 200mm, 1/2"	1
KL-4051-3408	Screwdriver Bit Socket RIBE® M8, 200mm, 1/2"	1

* = registered trademark of Richard Bergner GmbH & Co. KG

KL-4051-3310

Screwdriver Bit Socket, RIBE® M10

Ideal to remove and re-tighten cylinder head retaining bolts on **VW-Audi engines** with RIBE® similar profile.


Technical Data:

Drive:	1/2"
Length:	140mm
Weight:	100g

KL-4031-3309

Screwdriver Bit Socket XZN-M9, 140mm, 1/2"

Applicable to: Japanese passenger cars such as Daihatsu, Toyota fitted with petrol engines etc.

Ideal for slackening and tightening cylinder head bolts, e.g. on Japanese passenger car engines with XZN M9 thread profile.



KL-0369-10

Hex Socket, Size (waf) 22mm

Suitable for diesel engines from: VW-Audi, BMW, Ford, Opel/Vauxhall, Rover, Mercedes, Seat, Volvo, etc.

The special cut-out hex socket allows for the removal/installation of diesel injectors without damaging the fuel return tubes.


Technical Data:

Size:	22mm
Drive:	1/2"

KL-0511-1

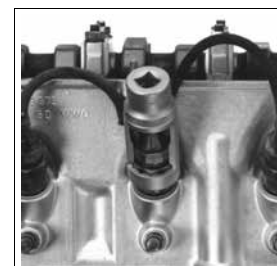
Diesel Injector Bi-Hex Socket, Size (waf) 27mm

Applicable to: BMW (e.g. M21, M41, M51) as well as to Ford, VW, and Mercedes Diesel engines.

Specifically cut-out bi-hex socket for removing and installing diesel injectors without damaging the fuel return tubes.

Technical Data:

Size (bi-hex):	27mm
Drive:	1/2"



KL-0511-2

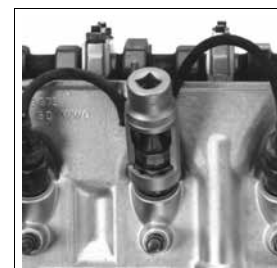
Diesel Injector Bi-Hex Socket, Size (waf) 28mm

Applicable to: Alfa Romeo; Chrysler; Rover; MAN 2.5 TD

Specifically cut-out bi-hex socket for removing and installing diesel injectors without damaging the fuel return tubes.

Technical Data:

Size (bi-hex):	28mm
Drive:	1/2"



KL-0511-3

Diesel Injector Bi-Hex Socket, Size (waf) 21mm

Applicable to the TwinCam Diesel engines on:

Ford Mondeo (10/2000 - 02/2007) 2.0 DI, -TDCi, -TDDi (engine code: D5BA, D6BA, FMBA, HJBA, HJBB, HJBC, N7BA, SDBA); 2.2 TDCi (engine code: QJBA, QJBB, QJBC, QJBD);

Ford Transit (01/2000 - 05/2006) 2.0 DI, -TDCi (engine code: ABFA, D3FA, F3FA, F4FA); 2.4 DI, -TDCi (engine code: D2FA, D2FB, D2FE, D4FA, H9FA)

Jaguar X-Type (07/2003 - 10/2005) (engine code: R4-X404)



Specifically cut-out socket allows for the quick and trouble-free removal and installation of screwed diesel injectors (waf 21mm) without any risk of damage to the fuel return tubes.

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet





KL-0379-10

Bolts for Subframe, Smart

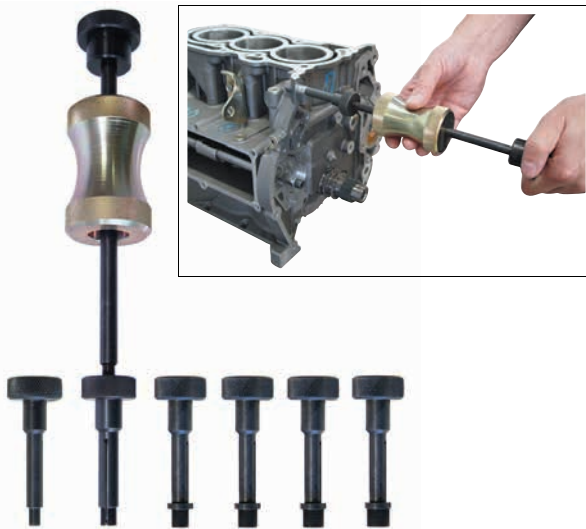
Applicable to Smart Fortwo (450).

The bolts are used to secure the subframe against further dropping when the latter needs to be lowered. Necessary when performing work on the engine, e.g. on starter motors, turbochargers etc.

Once the subframe has been supported (for example by means of a transmission jack) the original bolts can be replaced with our **KL-0379-10 - bolts for subframe**. This will enable the safe and correct lowering of the subframe by approx. 20cm.

Scope of Delivery: KL-0379-10 Bolts for Subframe, Smart

Part No.	Description	Qty
KL-0379-1001	Bolt (Length 300mm)	2
KL-0379-1002	Bolt (Length 260mm)	2
KL-0379-1003	Washer, Ø 12mm	4



KL-0181-80

Guide Sleeve Puller

Allows guide sleeves to be pulled out and knocked in without incurring any damage. The puller works on the principle of an internal collet chuck.

In engine and gearbox engineering, so-called guide sleeves are used for the accurate fixing of the housing halves. These guide sleeves, however, should not be installed or removed with tongs or a hammer.

Scope of Delivery: KL-0181-80 Guide Sleeve Puller

Part No.	Description	Qty
KL-0181-800	Slide Hammer Puller	1
KL-0181-8005	Collet Chuck for internal Ø of 5mm	1
KL-0181-8006	Collet Chuck for internal Ø of 6mm	1
KL-0181-8007	Collet Chuck for internal Ø of 7mm	1
KL-0181-8008	Collet Chuck for internal Ø of 8mm	1
KL-0181-8009	Collet Chuck for internal Ø of 9mm	1
KL-0181-8010	Collet Chuck for internal Ø of 10mm	1

6



KL-0178-21 K

Seal Ring Installation Kit

Applicable to virtually all VW-Audi engines.

This tool enables the quick and professional installation of sealing rings on the crankshaft and camshaft without the need for dismantling the engine.

Scope of Delivery: KL-0178-21 K Seal Ring Installation Kit

Part No.	Description	Qty
KL-0178-211	Housing	1
KL-0178-2120	Guide Sleeve, Ø 10.5mm	1
KL-0178-2121	Guide Sleeve, Ø 12.5mm	1
KL-0178-2122	Guide Sleeve, Ø 14.5mm	1
KL-0178-2123	Guide Sleeve, Ø 16.5mm	1
KL-0178-2124	Guide Sleeve, Ø 18.5mm	1
KL-0178-2131	Pressure Ring, Ø 32mm	1
KL-0178-2132	Pressure Ring, Ø 35mm	1
KL-0178-2133	Pressure Ring, Ø 37mm	1
KL-0178-2141	Conical Sleeve, Ø 32mm	1
KL-0178-2142	Conical Sleeve, Ø 35mm	1
KL-0178-2143	Conical Sleeve, Ø 35mm	1
KL-0178-2144	Conical Sleeve, Ø 35mm	1
KL-0178-2145	Conical Sleeve, Ø 37mm	1
KL-0178-2190	Plastic Storage Case	1

KL-0178-32

Seal Ring Removal Kit

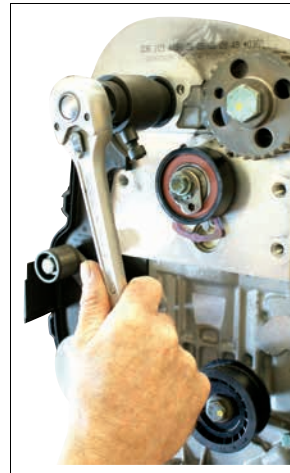
Universally suitable for shaft seals with inner diameter of 27mm, 32mm and 35mm; for example those on crankshafts, camshafts and intermediate shafts used on VW-Audi, Seat and Škoda engines.

The tool enables the easy and professional removal of seal rings from engine shafts such as crankshaft, camshaft or intermediate shaft without the need for dismantling the engine.

Scope of Delivery:

KL-0178-32 Seal Ring Removal Kit

Part No.	Description	Qty
KL-0178-321	Seal Removal Tool, Ø 27mm	1
KL-0178-322	Seal Removal Tool, Ø 32mm	1
KL-0178-323	Seal Removal Tool, Ø 35mm	1



KL-0178-30 K

Installation Kit for Sealing Flanges with Integrated Sender Wheel

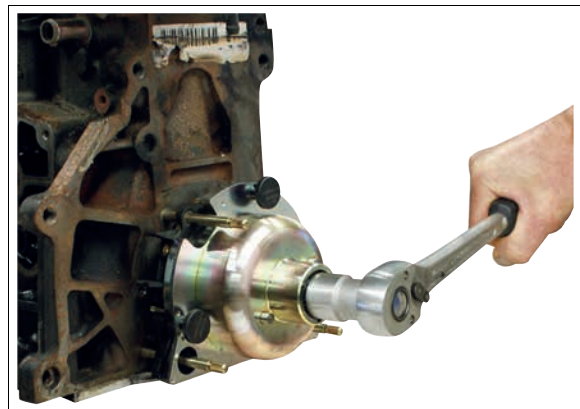
Applicable to VW-Audi, Seat, Škoda and Mitsubishi petrol and diesel engines; e.g. 1.0, 1.4, 1.4 16V, 1.4 FSI, 1.6 16V, 1.6 FSI, 1.9 TDI, 2.0 TDI, 2.0 TDI 16V, 2.0 SDI, 2.0 DI-D on Audi (A2, A3); VW (Polo, Golf IV/V/Plus, Passat); Seat (Arosa, Ibiza, Leon); Škoda (Fabia, Octavia) and Mitsubishi (Grandis, Outlander).

Essential tool for the quick and professional installation of crankshaft sealing rings with integrated sender wheel (gearbox side).

Scope of Delivery:

KL-0178-30 Installation Kit for Sealing Flanges with Integrated Sender Wheel

Part No.	Description	Qty
KL-0178-3010	Housing with Nut	1
KL-0178-3020	Pressure Plate	1
KL-0178-3030	Flange with Spindle	1
KL-0178-3040	Guide Bolt, Ø 7mm	3
KL-0178-3050	Guide Bolt, Ø 8mm	3
KL-1681-111	Adaptor (M14x1.25) for TDC Positioning	1
KL-0128-1	Dial Gauge, Ø 58mm	1
KL-0178-3090	Plastic Storage Case	1



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KL-0282-50

Puller for Timing Belt Sprocket (Crankshaft)

Suitable for use on VW-Audi 4 and 5-cylinder engines.

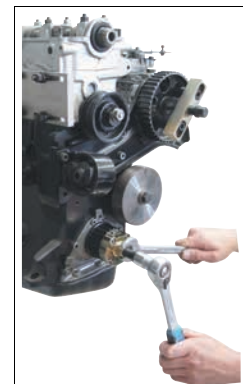
Designed to remove the crankshaft timing belt sprocket.

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



1 B - Combination Spanner UD-Profile





KL-0282-39

Puller Tool Set, Pumpe-Düse (Unit Injector)

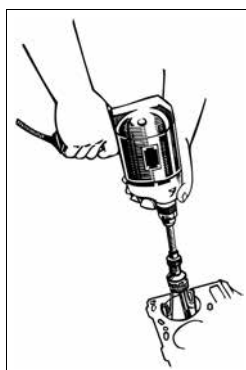
Applicable to the VW-Audi, Ford, Seat, Škoda 3- and 4-cylinder (1.2, 1.4, 1.6, 1.9 and 2.0 litre) TDI Pumpe-Düse (unit injector) engines as installed in: VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3, A4, A5, A6, Q5, TT; Seat Altea, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Oktavia, Praktik, Roomster, Superb, Yeti.

(Engine codes: CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CEGA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHF, CFJA, CGLA, CGLB, CJAA, CJCA, CJC, CLCA, CLCB, CLJA, CLLA, CMEA)

This tool set is designed for the easy and professional removal of camshaft hubs. It is required, for example, when replacing the cylinder head gasket on 1.9 litre engines, when removing and replacing the camshaft, and for the repair of engines/cylinder heads. The **KL-0282-391** reaction wrench enables the camshaft hub fixing screw to be loosened and tightened correctly. The **KL-0282-392** puller allows for the accurate removal of the camshaft hub from the camshaft taper.

Scope of Delivery: KL-0282-39 Puller Tool Set, Pumpe-Düse (Unit Injector)

Part No.	Description	Qty
KL-0282-391	Counter-Holding Tool	1
KL-0282-392	Puller for Camshaft Hub	1



KL-0199-12

Cylinder-Honing Tool, Ø 51-175mm

Comes with interchangeable hone stones and a flexible drive shaft to fit electric drills. The hone arms are self-spreading and tensioning. Suitable for tubes, bores, cylinders, bearing housings, etc.

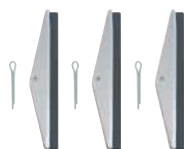
Technical Data:

Hone Tool:	Cylinder Ø: 51-175mm	Weight: 570g
Hone Stone:	Length: 100mm	

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Technical Data:

Dimension:	11x100mm
Weight:	57g

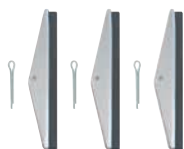


KL-0199-125

Cylinder Hone Set (3 Stones)

Technical Data:

Measure:	11x100mm
Weight:	57g

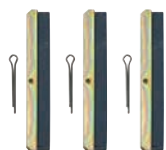


KL-0199-126

Cylinder Hone Set, hard (3 Stones)

Technical Data:

Dimension:	9x76mm
Weight:	57g



KL-0199-121

Cylinder Hone Set, 3 Stones (for old version)

Technical Data:

Dimension:	9x76mm
Weight:	57g



KL-0199-122

Cylinder Hone Set, hard, 3 Stones (for old version)

KL-0126-..

Piston Ring Compressors

Infinitely adjustable, made of special spring steel.

KL-0126-44

Piston Ring Compressor, Ø 57-125mm

Technical Data:

Height:	39mm
Ø:	57-125mm
Weight:	170g

KL-0126-45

Piston Ring Compressor, Ø 40-75mm

Technical Data:

Height:	52mm
Ø:	40-75mm
Weight:	115g

KL-0126-46

Piston Ring Compressor, Ø 57-125mm

Technical Data:

Height:	89mm
Ø:	57-125mm
Weight:	315g

KL-0126-47

Piston Ring Compressor, Ø 90-175mm

Technical Data:

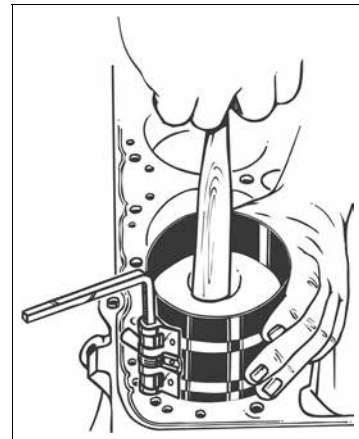
Height:	89mm
Ø:	90-175mm
Weight:	400g

KL-0126-48

Piston Ring Compressor, Ø 90-175mm

Technical Data:

Höhe:	178mm
Ø:	90-175mm
Weight:	765g





KL-0186-14 K

(German Utility Model)

Injector Nozzle Puller Set (Universal), with Accessories

Universally applicable to Diesel engines with injector nozzle connection thread M14x1.5 (external thread) or M17x1 (internal thread); for example:

- Mercedes: OM611, OM612, OM613, OM628**, OM629**, OM639, OM640, OM642**, OM646, OM646 EVO, OM647, OM648
- Peugeot, Citroën, Fiat, Lancia, Suzuki: DV6* [16V]
- Ford: 1.6 TDCi (G8DA, G8DB, HHDA, HJA, HHJB)
- VW-Audi: 2.5, 2.7 and 3.0 V6 Tdi
- Volvo: 1.6 D (D4164T), 2.2 D
- Mazda: Y6 (DV6* [16V])

*Note: Not suitable for Euro 5 [8V] engines.

**Note: V-engines might require the removal of the engine due to space constraints.

The injector nozzle puller **KL-0186-14 K** enables the removal of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without the need for dismantling the cylinder head.

The special extraction bridge and pull spindle allow the user to extract the injector nozzle quickly and easily.

The extraction bridge is supported either by the support bolts that are screwed into the locating bores for the valve cover screws (M6) or by the support bars that are positioned on an even surface on the cylinder head. The spacer nuts allow the supporting surfaces to be levelled out, as well as the support bolts in bore holes with insufficient depth to be adjusted correctly.

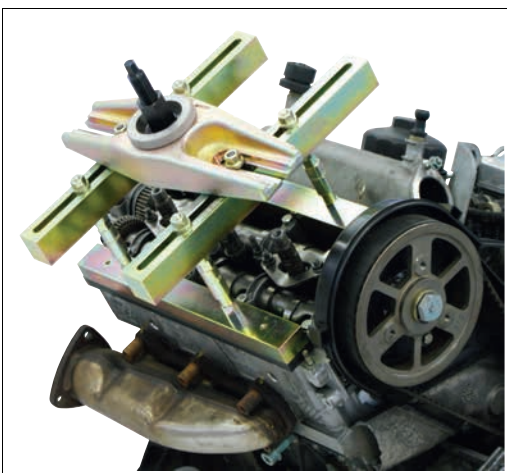
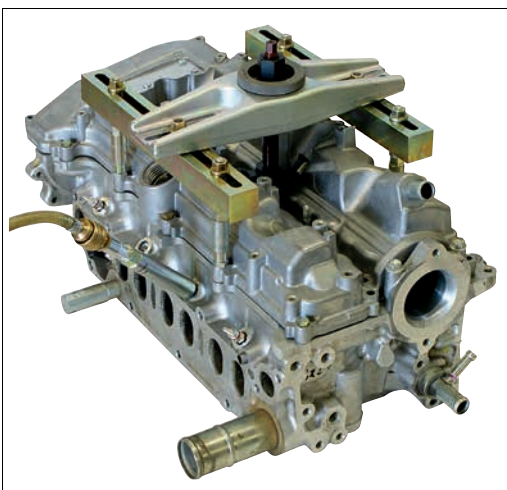
Note:

Thanks to the various upgrade kits, which are available separately as accessories, the injector nozzle puller is also suitable for use on many other Common Rail Diesel engines such as PSA 2.7 and 3.0 Hdi (DT17, DT20), Fiat Ducato and Iveco 2.3, 2.4 and 3.0 JTD, Mercedes CDI (OM651), Renault, Nissan, Opel/Vauxhall 2.2, 2.5 and 3.0 dci (G9T, G9U and ZD3), as well as Toyota 2.2 (2AD-FHV, 2AD-FTV).

Scope of Delivery:

KL-0186-14 K Injector Nozzle Puller Set (Universal), with Accessories

Part No.	Description	Qty
KL-0186-121	Extraction Bridge without Spindle	1
KL-0583-1005	Pull Spindle, M17x1, 200mm long	1
KL-0186-1215	Shoulder Nut, M16x1.5	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm long	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-0186-122	Support Bar Set	1
KL-0186-1251	Spacer Nut Set, 5mm	1
KL-0186-1252	Spacer Nut Set, 10mm	1
KL-0186-1253	Spacer Nut Set, 15mm	1
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0186-1290	Plastic Storage Case	1

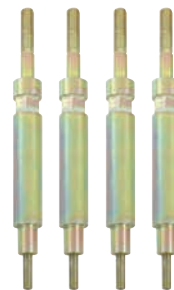


KL-0186-1233

Set of Support Bolts, M6, 145mm

Applicable to VW-Audi, Seat, Škoda 2.0 TDI (CFFB) Common Rail Diesel engines and Opel/Vauxhall 2.0 CDTi, VCDi (Z 20 DM, Z 20 DMH, Z 20 S) Common Rail Diesel engines. Installed, for example, in: VW Golf VI (5K), Eos (1F), Sharan (7N), Passat V (3C), Passat VI (36), Jetta (16), Passat CC (35), Tiguan (5N); Audi A3 (8P), Q3 (8U); Seat Alhambra (71); Škoda Superb II (3T); Opel/Vauxhall Antara, Chevrolet Captiva, Nubria estate car and Lacetti etc.

The **KL-0186-1233** support bolt set upgrades the injector nozzle puller set **KL-0186-14 K** by making it also suitable for use on the above mentioned engines.



KL-0186-1240

Set of Support Bolts, M6, 170mm

Applicable to the BMW 1.6, 2.0 (N47) and 3.0 (N57), as well as MINI 1.6 and 2.0 (N47) Common Rail Diesel engines. For example, fitted to: BMW 1 Series (E81, E82, E87, E88; F20, F21), 2 Series (F22), 3 Series (E90, E91, E92, E93; F30, F31; F34), 4 Series (F32), 5 Series (E60, E61; F10, F11; F07), 6 Series (F06, F12, F13), 7 Series (F01, F02, F04), X1 (E84), X3 (E83; F25), X5 (E70; F15), X6 (71, E72), and MINI Clubman (R55), Clubvan (R55), Countryman (R60), Paceman (R61), Coupé (R58), Roadster (R59) etc.

The **KL-0186-1240** support bolt set upgrades the **KL-0186-14 K** injector nozzle puller set by making it also suitable for use on the above mentioned engines.



KL-0186-170

(Patented)

Upgrade Kit for KL-0186-14 K

Applicable to Mercedes (OM651), Chevrolet (Z20DMH, Z20D1) and Opel/Vauxhall (Z22DMH) Diesel engines; as installed, for example, in: Mercedes C-Class (W204/S204 from 2007 onwards), E-Class (W212 from 2009 onwards), E-Class Coupé/Convertible (W207/C207 from 2009 onwards), GLK (X204 from 2008 onwards) and Sprinter II (906 from 2006 onwards); Chevrolet Cruze (J300), Orlando (J309) and Opel/Vauxhall Antara (L07).

The **KL-0186-170** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.

Scope of Delivery: KL-0186-170 Upgrade Kit for KL-0186-14 K (to form KL-0186-17 K)

Part No.	Description	Qty
KL-0186-1233	Set of Support Bolts, M6, 145mm long	1
KL-0186-1711	Pull Spindle, M18, 145mm long	1
KL-0369-420	Injector Nozzle Puller	1
KL-0369-511 A	Screw Tap, M7, with Drill Bit	1



KL-0186-210

Upgrade Kit for KL-0186-14 K

Renault/Nissan/Opel/Vauxhall

Applicable to the following Diesel engines: Renault / Nissan / Opel/Vauxhall 2.0 dCi (engine code M9R), 2.2 dCi (engine code G9T), 2.5 dCi (engine code G9U) and 3.0 dCi (engine code P9X*, ZD3).

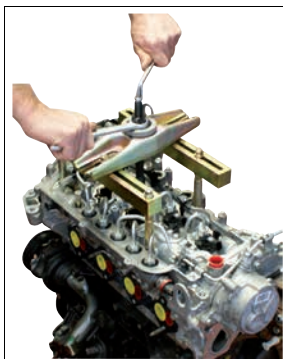
***Note:** V-engines might require the removal of the engine due to lack of space.

The **KL-0186-210** tool kit is designed to upgrade the **KL-0186-14 K** injector nozzle puller set so that it also covers the above mentioned engines

Scope of Delivery: KL-0186-210 Upgrade Kit for KL-0186-14 K (to form KL-0186-21 K)

Part No.	Description	Qty
KL-0186-1234	Set of Support Bolts, M6, 113.5mm and 153.5mm	1
KL-0186-1236	Set of Support Bolts, M6	1
KL-0186-1235-2	Set Screw, M6x25mm	4
KL-0186-1255	Spacer Nut, M8	4
KL-0583-1032	Pull Spindle, M14x1.5, 200mm	1
KL-0186-1611 H	Pull Spindle, M20x1, 250mm	1





KL-0186-200

Upgrade Kit for KL-0186-14 K

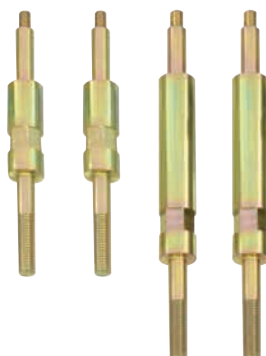
Renault, Nissan, Opel/Vauxhall

Applicable to Renault, Nissan and Opel/Vauxhall 2.0 dci Diesel engines (engine code M9R). Injector nozzles with fuel line connection at the top.

The **KL-0186-200** tool kit is designed to upgrade the **KL-0186-14 K** injector nozzle puller set so that it also covers the above mentioned engines.

Scope of Delivery: KL-0186-200 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1236	Set of Support Bolts, M6	1
KL-0583-1032	Pull Spindle, 200mm long	1



KL-0186-1234

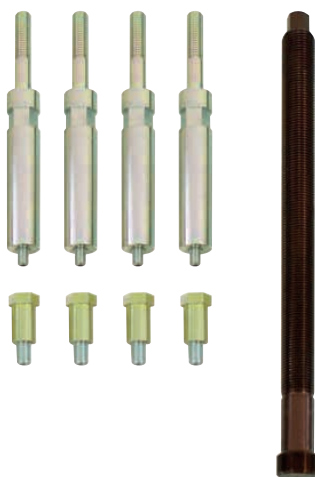
Set of Support Bolts, M6 (113.5mm and 153.5mm)

Applicable to Renault, Nissan, Opel/Vauxhall 2.2 and 2.5 dCi Diesel engines (engine code: G9T and G9U) e.g. Renault: Avantage, Espace III, Espace IV, Laguna II, Master II, Master III, Traffic II, Vel Satis; Nissan: Interstar, Primastar and Opel/Vauxhall Movano, Vivaro.

The **KL-0186-1234** support bolt set upgrades the injector nozzle puller set **KL-0186-14 K** by making it also suitable for use on the above mentioned engines.

Scope of Delivery: KL-0186-1234 Set of Support Bolts M6 (113.5mm and 153.5mm)

Part No.	Description	Qty
KL-0186-1234-1	Support Bolt, 113.5mm	2
KL-0186-1234-2	Support Bolt, 153.5mm	2



KL-0186-190

Upgrade Kit for KL-0186-14 K

Renault, Nissan, Opel/Vauxhall

Applicable to Renault, Nissan, Opel/Vauxhall 3.0 Common Rail Diesel engines (engine code: ZD3); e.g. fitted to Renault: Master (II and III), Master Maxi; Nissan: Cabstar (III), Interstar, Patrol (III), Patrol GR (II), Terano and Opel/Vauxhall: Movano (II). As well as for Renault 3.0 V6 Common Rail Diesel engines (engine code P9X*) e.g. fitted to Renault: Espace (IV), Vel Satis.

***Note:** V-engines might require the removal of the engine due to space constraints.

The **KL-0186-190** tool kit is designed to upgrade the **KL-0186-14 K** injector nozzle puller set so that it also covers the above mentioned engines.

Scope of Delivery: KL-0186-190 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1238	Set of Support Bolts, M6	1
KL-0186-1255	Spacer Nut, M8	4
KL-0186-1611 H	Pull Spindle, M20x1, 250mm	1



KL-0186-130

Upgrade Kit for KL-0186-14 K

(1.9, 2.3, 2.4, 3.0 JTD)

Applicable to Fiat Ducato, Citroën Relay/Jumper III, Peugeot Boxer III and Iveco 2.3, 2.4 and 3.0 JTD / HDI Common Rail Diesel engines (Engine Codes: F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE3481D, F1CE3481DM, F1CE3481E, F1CE3481N] also Euro 5), as well as Alfa Romeo 1.9 JTD (Engine code: 937A5.000).

The **KL-0186-130** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.

Scope of Delivery: KL-0186-130 Upgrade Kit (1.9, 2.3, 2.4, 3.0 JTD)

Part No.	Description	Qty
KL-0186-1232	Support Bolt Set, M8 (4-piece)	1
KL-0583-1032	Pull Spindle, M14x1.5, 200mm long	1
KL-0186-1261	Set of Spacer Nuts, 10mm (4-piece)	1

KL-0186-132

Upgrade Kit for KL-0186-14 K in conjunction with KL-0186-130

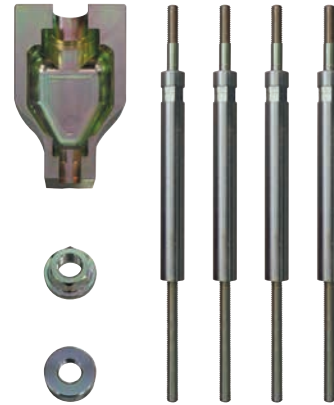
Applicable to the Fiat Ducato 3.0 JTD (Euro 5), Citroën Relay/Jumper III and Peugeot Boxer III 3.0 HDI (Euro 5) Common Rail Diesel engines.

(Engine codes: F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N])

The **KL-0186-132** upgrade kit is used in conjunction with the injector nozzle puller set **KL-0186-14 K** and upgrade kit **KL-0186-130** to allow the removal of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without the need for dismantling the cylinder head.

The injector can be extracted in one piece quickly and easily using the special puller claw and the **KL-0583-1032 pull spindle** (supplied with **KL-0186-130**). The injector needs to be opened for this purpose.

Procedure: Unscrew injector top part, dismantle nozzle, screw in pull spindle, mount special puller claw, unscrew valve cover screws (4 screws) and replace with special support bolts, mount extraction bridge and screw on shoulder nut. Extract nozzle by turning the shoulder nut.



Scope of Delivery: KL-0186-132 Upgrade Kit for KL-0186-13 KA

Part No.	Description	Qty
KL-0186-1232 L	Set of Support Bolts M8, 180mm	1
KL-0186-1321	Special Injector Puller Claw	1
KL-0186-1322	Knurled Nut	1
KL-0186-1323	Hex Nut	1

KL-0186-230

Upgrade Kit for KL-0186-14 K

Applicable to Ford, Fiat, Citroën and Peugeot 2.2 Diesel engines. Installed, for example, in: Ford Transit (from 2006 onwards), Tourneo; Fiat Ducato (from 2006 to 2012), Citroën Relay/Jumper III and Peugeot Boxer III. (Engine codes: 4HM, 4HU, 4HV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

The **KL-0186-230** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.



Scope of Delivery: KL-0186-230 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1233	Set of Support Bolts, M6, 145mm	1
KL-1383-1022	Special Socket, Size (waf) 25mm, 1/2" drive	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-0186-2201	Special Insert	1
KL-0186-1611	Pull Spindle, M20x1, 145mm long	1



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KL-0186-150 A

Upgrade Kit (PSA HDI) for KL-0186-14 K

Applicable to PSA 2.7 (DT17) and 3.0 (DT20) Hdi Diesel engines.

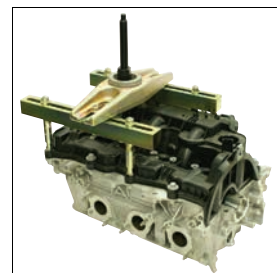
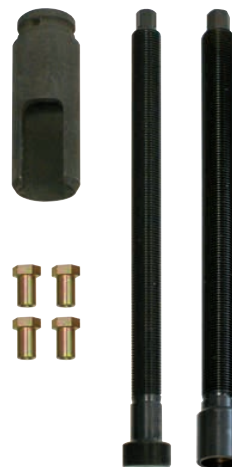
The **KL-0186-150 A** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.

Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

Scope of Delivery: KL-0186-150 A Upgrade Kit (PSA HDI) for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1254	Set of Spacer Nuts, 20mm	1
KL-1383-1113 H	Pull Spindle, M14x1.25, 240mm long	1
KL-1383-1021 H	Pull Spindle, M25x1, 240mm long	1
KL-1383-1022	Special Socket, Size (waf) 25mm, 1/2" drive	1





Technical Data:

Connection thread of pull spindle KL-0583-1032:	M14x1.5
Connection thread of pull spindle KL-0186-1612:	M16x1
Connection thread of pull spindle KL-0186-1611:	M20x1

KL-0186-1610 B

Upgrade Kit for KL-0186-14 K

Suitable for the Toyota, Lexus, Mini 1.4, 2.0, 2.2, 2.5 and 3.0 Common Rail Diesel engines as found in the following vehicles: Lexus IS; Mini One (R50); Toyota Auris, Avensis, Corolla Verso/CombiVan, Dyna, Hiace, Hiace/PowerVan, Hilux, IQ, Landcruiser/Prado, RAV4, Verso, Verso/Sportsvan, Yaris. (Engine codes: 1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND])

Used in conjunction with the **KL-0186-14 K** universal injector nozzle puller set with accessories, the **KL-0186-1610 B** upgrade kit enables the removal of very tight-fitting/seized injector nozzles to be performed directly on the vehicle without having to dismount the cylinder head.

The special extraction bridge and the pull spindle allow the user to extract the injector nozzle quickly and easily. The injector nozzle needs to be opened for this.

Procedure: Unscrew injector top part, disassemble remains of injector, screw in pull spindle, unscrew valve cover screws (4 screws), mount extraction bridge, screw on shoulder nut. Extract injector by turning the shoulder nut.

Scope of Delivery: KL-0186-1610 B Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0583-1032	Pull Spindle, M14x1.5, 200mm long	1
KL-0186-1611	Pull Spindle, M20x1, 145mm long	1
KL-0186-1612	Pull Spindle, M16x1, 145mm long	1
KL-0186-2201	Special Insert	1
KL-4417-17	Crowfoot Wrench, Size (waf) 17mm	1
KL-0186-1235-2	Set Screw, M6x25mm	4



KL-0040-170 A

Hydraulic Cylinder, 17t (short design), with Shoulder Nut M16x1.5 and Safety Belt

Designed for the controlled extraction of very tight-fitting/seized injector nozzles. The tool is used in conjunction with a special pull spindle, a GEDORE Automotive injector nozzle puller with extraction bridge, and a GEDORE Automotive hydraulic pump with pressure gauge.

The **KL-0040-1700** hydraulic cylinder along with the special pull spindle (part no. ending with H) is placed onto the extraction bridge instead of the mechanical drive. The special pressure gauge (**KL-0040-2529** or **KL-0040-2528**) of the hydraulic pump (**KL-0215-35 M25** or **KL-0215-37 M25**) allows the applied force to be monitored during the extraction process. By fastening the **KL-0040-1790** safety belt (supplied with the kit) to the vehicle and to the hydraulic cylinder **KL-0040-1700**, the latter is prevented from falling.

Note: The injector nozzle pullers **KL-0369-46 K** and **KL-1383-10 K** additionally require the use of spacer ring **KL-0040-1751**.

Technical Data:

Maximum admissible force:	170KN (17t)
Maximum stroke:	15mm
Maximum oil volume:	41cm ³
Maximum oil pressure:	700bar
Piston area:	27cm ²
Cylinder outer diameter:	79mm
Cylinder overall height, (piston retracted):	89mm
Cylinder overall height, (piston extended):	104mm
Through-hole in tubular piston	Ø 16.5mm
Hydraulic fluid connection:	3/8"-18 NPT
Weight:	2.7kg

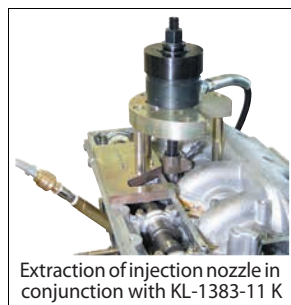
Scope of Delivery: KL-0040-170 A Hydraulic Cylinder, 17t (short design)

Part No.	Description	Qty
KL-0040-1700	Hydraulic Cylinder, 17t (short design)	1
KL-0040-1741-2	Shoulder Nut, M16x1.5	1
KL-0040-1790	Safety Belt	1

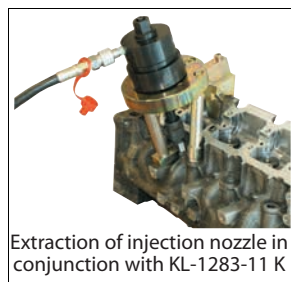
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Extraction of injection nozzle in conjunction with KL-0583-10 K



Extraction of injection nozzle in conjunction with KL-1383-11 K



Extraction of injection nozzle in conjunction with KL-1283-11 K



Extraction of injection nozzle in conjunction with KL-1383-11 K

KL-0040-175 B

Hydraulic Drive Tool Kit with Safety Belt

This tool kit enables the controlled extraction of very tight-fitting/seized injector nozzles. It is used in conjunction with the injector nozzle puller set **KL-0186-14 K** and a hydraulic pump equipped with a GEDORE Automotive pressure gauge.

The hydraulic cylinder with shoulder nut **KL-0040-170 A** together with a special pull spindle (part no. ending with H) is placed onto the extraction bridge instead of the mechanical drive. The special pressure gauge **KL-0040-2529/KL-0040-2528** of the hydraulic pump **KL-0215-35 M25/KL-0215-37 M25** allows the applied force to be monitored during the extraction process. The **KL-0040-1790** safety belt included in the kit is fixed to the vehicle and to the **KL-0040-1700** hydraulic cylinder to secure the latter against falling.

Technical Data: KL-0040-170 A

Maximum admissible force:	170KN (17t)
Maximum stroke:	15mm
Maximum oil volume:	41cm ³
Maximum oil pressure:	700bar
Piston area:	27cm ²
Cylinder outer diameter:	79mm
Cylinder overall height, (piston retracted):	89mm
Cylinder overall height, (piston extended):	104mm
Through hole in tubular piston:	Ø 16.5mm
Hydraulic oil connection:	3/8"-18NPT
Weight:	2.7kg

Technical Data: KL-0583-1005 HA

Connection thread:	M17x1
Length:	315mm

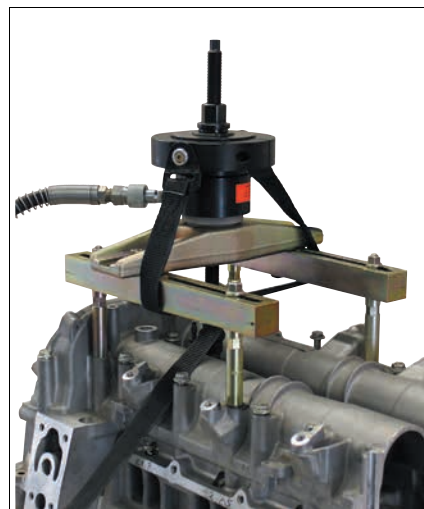
Technical Data: KL-0583-1032 H

Connection thread:	M14x1.5
Length:	315mm

Scope of Delivery:

KL-0040-175 B Hydraulic Drive Tool Kit with Safety Belt

Part No.	Description	Qty
KL-0040-170 A	Hydraulic Cylinder, 17t (short design)	1
KL-0583-1005 HA	Pull Spindle, M17x1, with Nut, 315mm long	1
KL-0583-1032 H	Pull Spindle, M14x1.5, 315mm long	1



6

KL-0215-35 M25

Hydraulic Hand Pump

The **KL-0215-35 M25** hydraulic hand pump is designed to be used as a drive for the hydraulic cylinders **KL-0040-2500** and **KL-0040-170**.

The hydraulic pressure and necessary force can be monitored while operating the pump at pressure gauge **KL-0040-2529** (supplied with the tool set). The pressure gauge features an additional tonne scale specifically adapted to our **KL-0040-2500** hydraulic cylinder (17t).

Technical Data:

Weight:	7.5kg
Max. pressure:	700bar

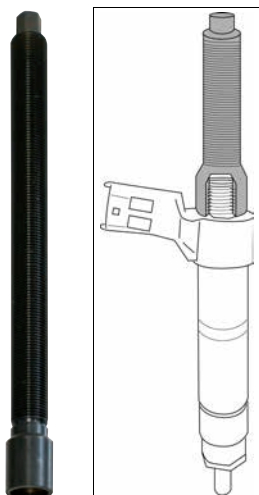
Note: A hydraulic hand pump with pressure gauge precisely adapted to the hydraulic cylinder **KL-0040-2200** (10t) or **KL-0040-2800** (28t) available upon request.

Scope of Delivery:

KL-0215-35 M25 Hydraulic Hand Pump

Part No.	Description	Qty
KL-0215-33	Hydraulic Hand Pump (without hose)	1
KL-0215-31	Hydraulic Hose, 1.8m, with Hose-Side Connector	1
KL-0215-322	Cylinder-Side Connector, 1/4" NPT	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2529	Pressure Gauge	1





KL-1383-1113 H Pull Spindle, M14x1.5

Suitable for injection nozzles with an M14x1.5 external thread.

Technical Data:

Connection thread:	M14x1.5
Length:	240mm

KL-0583-1032 H Pull Spindle, M14x1.5

Suitable for injector nozzles with an M14x1.5 external thread.

Technical Data:

Connection thread:	M14x1.5
Length:	315mm



Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	240mm

Scope of Delivery: KL-0369-4606 HA Pull Spindle M17x1 with Nut

Part No.	Description	Qty
KL-0369-4606-1 H	Pull Spindle, M17x1, 240mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

KL-0369-4606 HA Pull Spindle, M17x1 with Nut M27x1, 240mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in Alfa Romeo, BMW, Fiat, Mercedes, PSA (DW10) and Renault Diesel engines.

The pull spindle is required if the KL-0040-1700 hydraulic cylinder is to be used as a drive for the KL-0369-46 K, KL-1283-11 K, KL-1283-13 K, KL-1383-11 K, KL-1383-14 K and KL-1683-10 K injector nozzle pullers.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	132mm

Scope of Delivery: KL-0369-4606 A Pull Spindle, M17x1 with Nut

Part No.	Description	Qty
KL-0369-4606-1	Pull Spindle, M17x1, 132mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

KL-0369-4606 A Pull Spindle, M17x1, with Nut, M27x1, 132mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in Alfa Romeo, BMW, Fiat, Mercedes, PSA (DW10) and Renault Diesel engines.

The pull spindle upgrades our KL-0369-46 K, KL-1283-11 K, KL-1283-13 K, KL-1383-11 K and KL-1683-10 K tools sets so that these can also be used with very tight-fitting/seized injector nozzles. The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	315mm

Scope of Delivery: KL-0583-1005 A Pull Spindle M17x1 with Nut

Part No.	Description	Qty
KL-0583-1005-1 H	Pull Spindle, M17x1, 315mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

KL-0583-1005 HA Pull Spindle M17x1 with Nut M27x1, 315mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in PSA (DW10), BMW, Fiat, Mercedes Diesel engines.

The pull spindle is required if the KL-0040-170 A hydraulic cylinder is to be used as a drive for the injector nozzle pullers KL-0583-10 K and KL-0186-14 K respectively (in conjunction with the vehicle-specific upgrade kits KL-0186-1234, KL-0186-130, KL-0186-190, KL-0186-210).

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.

KL-0583-1005 A

Pull Spindle, M17x1, with Nut, M27x1, 200mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in PSA (DW10), BMW, Fiat, Mercedes Diesel engines.

The pull spindle complements the injector nozzle pullers **KL-0583-10 K** and **KL-0186-14 K** respectively (in conjunction with the vehicle-specific upgrade kits **KL-0186-1234**, **KL-0186-130**, **KL-0186-190**, **KL-0186-210**) making these suitable for use also on very tight-fitting/seized injector nozzles. The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	200mm

Scope of Delivery: KL-0583-1005 A Pull Spindle M17x1 with Nut

Part No.	Description	Qty
KL-0583-1005-1	Pull Spindle, M17x1, 200mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

KL-0186-1711 H

Pull Spindle, M18

The pull spindle is needed if the **KL-0040-170 A** hydraulic cylinder is to be used as a drive for the injector nozzle puller **KL-0186-14 K** in conjunction with the vehicle-specific upgrade kit **KL-0186-170**.



Technical Data:

Connection thread:	M18
Length:	250mm



KL-0186-1611 HA

Pull Spindle, M20x1 with 2 M25 Nuts, 250mm long

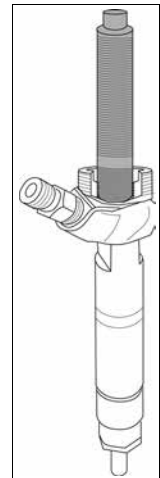
Suitable for injector nozzles equipped with an M20x1 internal thread, such as DENSO injectors. Installed in Renault Relay/Jumper III, Jumper; Fiat Ducato (250), Linea (110), Bravo (198), Doblo (263); Ford Transit; Isuzu D-Max / Rodeo, N-Series; Mazda 3, 5, 6, MPV; Mitsubishi L200, Pajero / Montero; Nissan X-Trail, Promera, Almera, Primera, Navara, Pathfinder; Opel/Vauxhall Astra H, Astra J, Combo, Corsa D, Meriva B, Insignia, Zafira B, Signum, Vectra C; Peugeot Boxer III; Renault Vel Satis, Espace; Saab 9-5; Toyota Avensis, Corolla Verso, RAV 4 III, Land Cruiser 90, Hiace IV, Hilux II, Hilux III, Dyna, Previa 1.6, 1.7, 2.2, 2.5 and 3.0 Common Rail Diesel engines.

The pull spindle is required if the **KL-0040-170 A** hydraulic cylinder is to be used as a drive for the universal **KL-0186-14 K** injector nozzle puller set in conjunction with the respective vehicle-specific upgrade kit **KL-0186-1610 A** or **KL-0186-220**.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/seized injector nozzles to be extracted with ease.



(Engine codes: 198A3.000, 1KD-FTV, 2AD-FT, 2KD-FTV, 4D56, 4HM, 4HU, 4HV, 4JJ1, 4JK1, 4M41, 6DE1, A16FDH, A16FDL, A17DT, A17DTC, A17DTJ, A17DTR, CD-FTV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FA, P8FB, P9X, PGFA, PGFB, QVFA, QWFA, RF5C, RF-DI, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA, YD22, YD25.)



Technical Data:

Connection thread:	M20x1
Union nut (KL-0186-1611-2):	M25x0.5
Union nut (KL-0186-1611-3):	M25x0.75
Length:	250mm

Scope of Delivery: KL-0186-1611 HA Pull Spindle M20x1 with 2 Nuts

Part No.	Description	Qty
KL-0186-1611-1 H	Pull Spindle M20x1	1
KL-0186-1611-2	Union Nut M25x0.5	1
KL-0186-1611-3	Union Nut M25x0.75	1

KL-0186-1611 A

Pull Spindle, M20x1, with 2 Nuts M25, 145mm long

For application, see KL-0186-1611 HA.

(Engine codes: 198A3.000, 1KD-FTV, 2AD-FT, 2KD-FTV, 4D56, 4HM, 4HU, 4HV, 4JJ1, 4JK1, 4M41, 6DE1, A16FDH, A16FDL, A17DT, A17DTC, A17DTJ, A17DTR, CD-FTV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FA, P8FB, P9X, PGFA, PGFB, QVFA, QWFA, RF5C, RF-DI, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA, YD22, YD25.)

The pull spindle upgrades the universal injector nozzle puller set **KL-0186-14 K** (in conjunction with the respective vehicle-specific upgrade kit **KL-0186-1610 A** or **KL-0186-220**) by making it suitable for use also on very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



Technical Data:

Connection thread:	M20x1
Union nut (KL-0186-1611-2):	M25x0.5
Union nut (KL-0186-1611-3):	M25x0.75
Length:	145mm

Scope of Delivery: KL-0186-1611 A Pull Spindle M20x1, with 2 Nuts

Part No.	Description	Qty
KL-0186-1611-1	Pull Spindle, M20x1, 145mm long	1
KL-0186-1611-2	Union Nut, M25x0.5	1
KL-0186-1611-3	Union Nut, M25x0.75	1



KL-0186-1612 H

Pull Spindle, M16x1, 260mm long

Suitable for injector nozzles with an M16x1 internal thread, such as Denso injectors. Installed in Toyota Diesel engines.

The pull spindle is required if the **KL-0040-170 A** hydraulic cylinder is to be used as a drive for the injector nozzle puller **KL-0186-14 K** in conjunction with the vehicle-specific upgrade kit **KL-0186-1610 B**.



KL-1383-1021 H

Pull Spindle, M25x1

Technical Data:

Connection thread:	M25x1
Length:	240mm

Suitable for injector nozzles with an M25x1 internal thread such as Siemens injectors. Installed in PSA Diesel engines (DW10) etc.

The pull spindle is needed if the **KL-0040-170 A** hydraulic cylinder is to be used as a drive for the **KL-1383-14 K** injector nozzle puller set.



KL-1383-1221 H

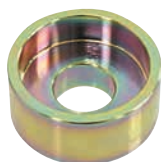
Pull Spindle, M27x1

Technical Data:

Connection thread:	M27x1
Length:	240mm

Suitable for injector nozzles having an M27x1 internal thread. For example, Siemens injectors as installed in PSA Diesel engines (DW10) etc.

This pull spindle is needed if the **KL-0040-170 A** hydraulic cylinder is to be used as a drive for the injector nozzle pullers **KL-1383-12 K** and **KL-1383-14 K** respectively.

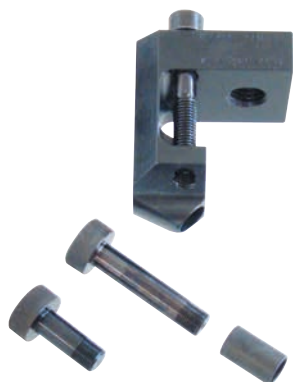


KL-0040-1751

Spacer Ring

This tool is needed if the hydraulic cylinder **KL-0040-170 A** is to be used as a drive for the injector nozzle puller **KL-0369-46 K** and **KL-1383-10 K** respectively.

6



KL-0186-100 (Patented)

Injector Nozzle Puller for M12x1, without Slide Hammer, VW-Audi/BMW/Mercedes/PSA

Applicable to the following Diesel engines: VW-Audi, Seat, Škoda (CFHA, CFJA, CFFB, CAYC); BMW (M47/M57); Mercedes (OM611, OM612, OM613, OM646, OM647, OM648) and PSA (DW10).

This puller allows for the professional extraction of injectors without having to open or dismantle them. A slide hammer such as **KL-0369-4100** (1.5kg) or **KL-0049-300** (4.8kg) is needed to operate the tool.

An indispensable tool when changing a timing chain or removing the valve cover/replacing the valve cover seal.

The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M12x1) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

Scope of Delivery: KL-0186-100 Injector Nozzle Puller for M12x1, without Slide Hammer, VW-Audi/BMW/Mercedes/PSA

Part No.	Description	Qty
KL-0186-1001	Injector Nozzle Puller Base Body for M12x1	1
KL-0186-1002	Special Screw, M12x1	1
KL-0186-1003	Special Screw, M12x1 (long)	1
KL-0186-1004	Sleeve	1

KL-0186-101

(Patented)

Injector Nozzle Puller for M12x1,
with Slide Hammer (1.5kg),
VW-Audi/BMW/Mercedes/PSA

Applicable to the following Diesel engines: VW-Audi, Seat, Škoda (CFHA, CFJA, CFFB, CAYC); BMW (M47/M57); Mercedes (OM611, OM612, OM613, OM646, OM647, OM648) and PSA (DW10).

This puller allows for the professional extraction of injectors without having to open or dismantle them.

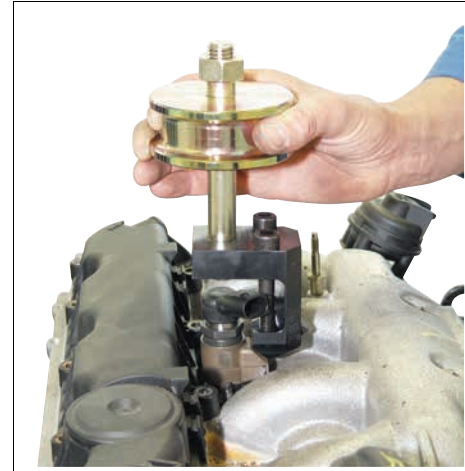
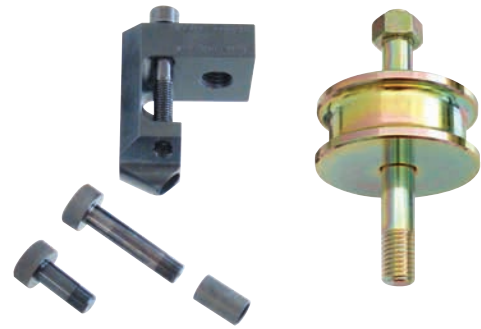
An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M12x1) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

Scope of Delivery: KL-0186-101 Injector Nozzle Puller for M12x1,
with Slide Hammer 1.5kg, VW-Audi/BMW/Mercedes/PSA

Part No.	Description	Qty
KL-0186-100	Injector Nozzle Puller for M12x1, without Slide Hammer	1
KL-0369-4100	Slide Hammer Base Tool, 1.5kg	1



KL-0186-102

(Patented)

Injector Nozzle Puller for M12x1,
with Slide Hammer (4.8kg),
VW-Audi/BMW/Mercedes/PSA

Applicable to the following Diesel engines: VW-Audi, Seat, Škoda (CFHA, CFJA, CFFB, CAYC); BMW (M47 / M57); Mercedes (OM611, OM612, OM613, OM646, OM647, OM648) and PSA (DW10).

This puller allows for the professional extraction of injectors without having to open or dismantle them.

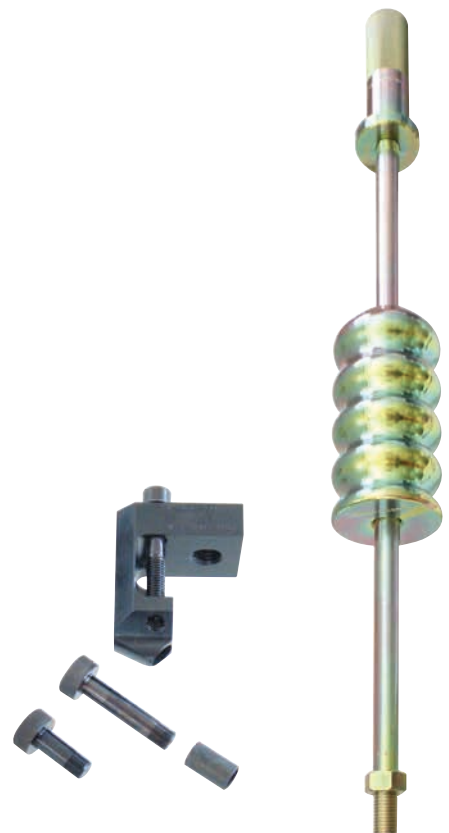
An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

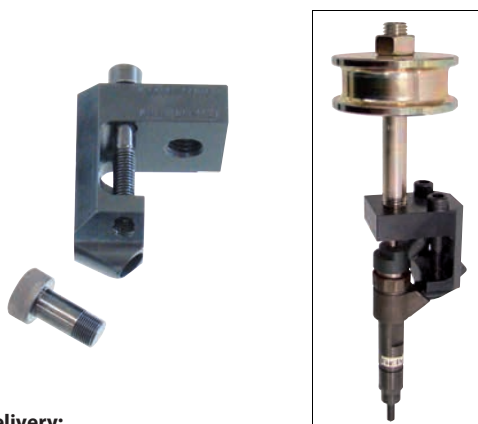
The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M12x1) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

Scope of Delivery: KL-0186-102 Injector Nozzle Puller for M12x1,
with Slide Hammer 4.8kg, VW-Audi/BMW/Mercedes/PSA

Part No.	Description	Qty
KL-0186-100	Injector Nozzle Puller for M12x1, without Slide Hammer	1
KL-0049-300	Slide Hammer Base Tool, 4.8kg	1





Scope of Delivery:

KL-0186-110 Injector Nozzle Puller without Slide Hammer

Part No.	Description	Qty
KL-0186-1101	Injector Nozzle Puller Base Body for M14x1.5	1
KL-0186-1102	Special Screw, M14x1.5	1

KL-0186-110

(Patented)

Injector Nozzle Puller for M14x1.5, without Slide Hammer, VW/Fiat/IVECO

Applicable to Fiat 2.8 JTD Diesel engines; e.g. Ducato, IVECO Daily and VW 2.0 TDI Common Rail engines (first and second generation) e.g. Golf 6, Tiguan, Touran (engine code CFFB) etc.

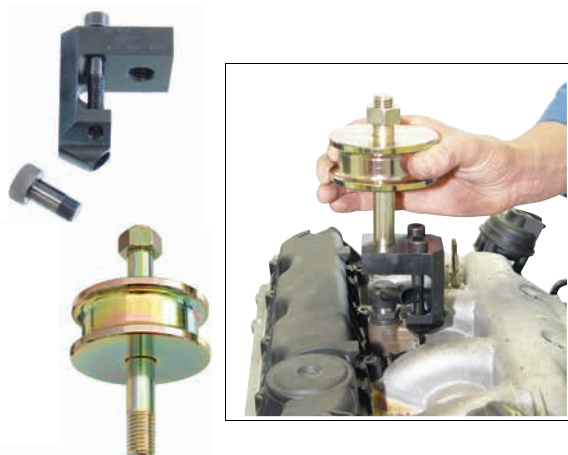
This tool enables the professional removal of injection nozzles without having to open or dismantle them. The slide hammer **KL-0369-4100** (1.5kg) or **KL-0049-300** (4.8kg) is needed to operate the tool.

An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M14x1.5) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

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Scope of Delivery: KL-0186-111 Injector Nozzle Puller

Part No.	Description	Qty
KL-0186-110	Injector Nozzle Puller for M14x1.5	1
KL-0369-4100	Slide Hammer Base Tool, 1.5kg	1

KL-0186-111

(Patented)

Injector Nozzle Puller for M14x1.5, with Slide Hammer (1.5kg), VW/Fiat/IVECO

Applicable to the Fiat 2.8 JTD Diesel engines; e.g. Ducato, IVECO Daily, and VW 2.0 TDI Common Rail engines (first and second generation) as fitted to Golf 6, Tiguan, Touran (Engine code CFFB) etc.

This tool enables the professional removal of injection nozzles without having to open or dismantle them.

An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M14x1.5) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

KL-0186-112

(Patented)

Injector Nozzle Puller for M14x1.5 with Slide Hammer (4.8kg), VW/Fiat/IVECO

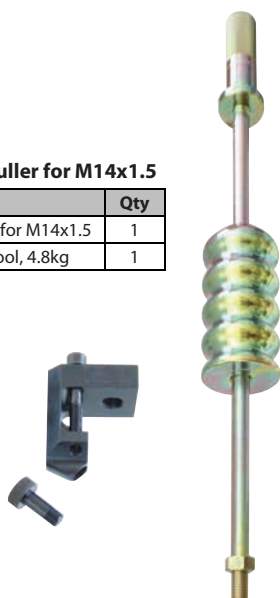
Applicable to the Fiat 2.8 JTD Diesel engines; e.g. Ducato, IVECO Daily, and VW 2.0 TDI Common Rail engines (first and second generation) as fitted to Golf 6, Tiguan, Touran (Engine code CFFB) etc.

This tool enables the professional removal of injection nozzles without having to open or dismantle them.

An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M14x1.5) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.



Scope of Delivery:

KL-0186-112 Injector Nozzle Puller for M14x1.5

Part No.	Description	Qty
KL-0186-110	Injector Nozzle Puller for M14x1.5	1
KL-0049-300	Slide Hammer Base Tool, 4.8kg	1

KL-0186-31 K (Patented)

Injector Nozzle Puller Set, without Drive

Universally suitable for injector nozzles having an M16x1, M17x1, M18, M20x1, M25x1, M27x1 internal thread Ø, as well as with external thread Ø M14x1.5.

The injector nozzle puller set is designed for the extraction of injector nozzles that are only slightly stuck/seized in place. It is used in conjunction with slide hammer puller **KL-0369-411** or **KL-0369-412**.

The tool set includes various special sockets and pull spindles, to allow virtually any common injector nozzle to be dismantled and removed.

Procedure:

Unscrew injector nozzle top part and threaded ring. Depending on the injector nozzle design, screw pull spindle either into or onto the injector. Then, screw slide hammer puller **KL-0369-411** or **KL-0369-412** (accessory) onto pull spindle. Remove injector nozzle by operating the slide hammer.

Scope of Delivery:

KL-0186-31 K Injector Nozzle Puller Set, without Drive

Part No.	Description	Qty
KL-0186-1611 A	Pull Spindle, M20x1; with 2 Union Nuts, M25	1
KL-0186-1612	Pull Spindle, M16x1, 145mm	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm	1
KL-0369-4606 A	Pull Spindle, M17x1; with Union Nut M27x1	1
KL-1383-1021	Pull Spindle, M25x1, 132mm	1
KL-1383-1221	Pull Spindle, M27x1, 127mm	1
KL-0186-1711	Pull Spindle, M18, 145mm	1
KL-4417-17	Crowfoot Wrench, Size (waf) 17mm	1
KL-1383-1022	Special Socket, Size (waf) 25mm	1
KL-1383-1222 A	Special Socket, Size (waf) 27mm	1
KL-0369-461 A	Special Socket, Size (waf) 29mm	1
KL-1283-103	Special Socket, Size (waf) 30mm	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0186-2201	Special Insert	1
KL-0369-420	Injector Nozzle Puller	1
KL-0369-4111	Injector Nozzle Puller Adaptor, M18 to M16x1.5	1
KL-0186-3190	Plastic Storage Case	1



Technical Data:

Pull spindles for external thread:	M14x1.5
Pull spindles for internal thread:	M16x1, M17x1, M18, M20x1, M25x1, M27x1
Union nuts:	M27x1, M25x0.5, M25x0.75

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KL-1383-1113

Pull Spindle, M14x1.5

Suitable for injection nozzles with an M14x1.5 external thread, e.g. Bosch or Delphi injector nozzles as installed in Mercedes, PSA and VW Diesel engines; e.g. engine codes: OM629, OM642, OM646; DV4 DW12 and CBD etc.



Technical Data:

Connecting thread injector nozzle:	M14x1.5
Connecting thread slide hammer:	M16x1.5
Length:	127mm

KL-0369-4606 A

Pull Spindle, M17x1, with Nut, M27x1, 132mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in Alfa Romeo, BMW, Fiat, Mercedes, PSA (DW10) and Renault Diesel engines.

The pull spindle upgrades our **KL-0369-46 K**, **KL-1283-11 K**, **KL-1283-13 K**, **KL-1383-11 K** and **KL-1683-10 K** tools sets so that these can also be used with very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	132mm

Scope of Delivery:

KL-0369-4606 A Pull Spindle, M17x1, with Nut, M27x1

Part No.	Description	Qty
KL-0369-4606-1	Pull Spindle, M17x1, 132mm long	1
KL-0369-4606-2	Union Nut, M27x1	1



Technical Data:

Connecting thread injector nozzle:	M25x1
Connecting thread slide hammer:	M16x1.5
Length:	127mm

KL-1383-1021

Pull Spindle, M25x1

Suitable for injection nozzles with M25x1 internal thread, such as Siemens injector nozzles fitted to PSA Diesel engines (DW10) etc.

Note:

Special socket **KL-1383-1022** is required to remove the nozzle head.



Technical Data:

Connecting thread injection nozzle:	M27x1
Connecting thread slide hammer:	M16x1.5
Length:	127mm

KL-1383-1221

Pull Spindle, M27x1

Suitable for injection nozzles with M27x1 internal thread, such as Siemens injector nozzles fitted to PSA Diesel engines (DW10) etc.

Note:

Special socket **KL-1383-1222** is required to remove nozzle head.



KL-0369-411

Injector Nozzle Puller with Slide Hammer (4.8kg)

This tool is designed for the extraction of injection nozzles which are only slightly seized in place. It is used in conjunction with the pull spindle **KL-0369-4606** (external connection thread M17x1), **KL-1383-1021** (external connection thread M25x1), **KL-1383-1221** (external connection thread M27x1) or **KL-1383-1113** (internal connection thread M14x1.5).

Consists of slide hammer puller **KL-0049-300** and adaptor **KL-0369-4111**.

Technical Data:

Connection thread:	M16x1.5
Overall length:	710mm
Hammer weight:	4.8kg



KL-0369-412

Injector Nozzle Puller with Slide Hammer (1.5kg)

This tool is designed for the extraction of injection nozzles which are only slightly seized in place. It is used in conjunction with the pull spindle **KL-0369-4606** (external connection thread M17x1), **KL-1383-1021** (external connection thread M25x1), **KL-1383-1221** (external connection thread M27x1) or **KL-1383-1113** (internal connection thread M14x1.5).

Consists of slide hammer **KL-0369-4100** and adaptor **KL-0369-4111**.

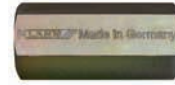
Technical Data:

Connecting thread:	M16x1.5
Overall length:	195mm
Hammer weight:	1.5kg

KL-0186-3101

Adaptor, M16 to M16x1.5

The **KL-0186-3101** adaptor is designed to be used in conjunction with a slide hammer puller (accessory) having an **M16** retaining thread and a **GEDORE Automotive** pull spindle such as **KL-0186-1611 A**, **KL-0186-1612**, **KL-1383-1113**, **KL-0369-4606 A**, **KL-1383-1021**, **KL-1383-1221**, **KL-0186-1711** etc. It, thus, allows for the extraction of injector nozzles that are only slightly stuck/seized in place.



Technical Data:

Adaptor:	M16 to M16x1.5
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KL-0186-3102

Adaptor, M22x2 to M16x1.5

The **KL-0186-3102** adaptor is designed to be used in conjunction with a slide hammer puller (accessory) having an **M22x2** retaining thread and a **GEDORE Automotive** pull spindle such as **KL-0186-1611 A**, **KL-0186-1612**, **KL-1383-1113**, **KL-0369-4606 A**, **KL-1383-1021**, **KL-1383-1221**, **KL-0186-1711** etc. It, thus, allows for the extraction of injector nozzles that are only slightly stuck/seized in place.



Technical Data:

Adaptor:	M22x2 to M16x1.5
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KL-0186-3103

Adaptor, M22x2 to M18

The **KL-0186-3103** adaptor is designed for the extraction of injector nozzles that are only slightly seized in place. It is used in conjunction with a slide hammer having an **M22x2** retaining thread (available as accessory) and the **GEDORE Automotive** injector nozzle puller **KL-0186-100** or **KL-0186-110** respectively.



KL-1383-1022

Special Socket, Size (waf) 25mm, 1/2" Drive

Necessary to loosen/unscrew the nozzle head, e.g. on Siemens injector nozzles as installed in 2.0 DW10 HDI engines etc.

Technical Data:

Size (waf):	25mm
Drive:	1/2"
Length:	100mm



KL-1383-1222 A

Special Socket, Size (waf) 27mm



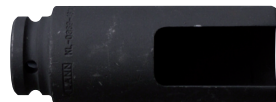
KL-0369-461 A

Special Socket, Size (waf) 29mm, 1/2" Drive

Necessary to loosen/unscrew the nozzle head, e.g. on Bosch injector nozzles as found in CDI and HDI engines etc.

Technical Data:

Size (waf):	29mm
Drive:	1/2"
Length:	100mm



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet





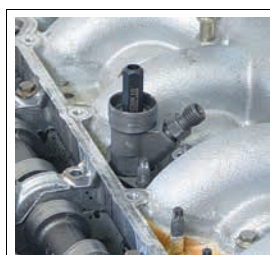
KL-1283-103

Special Socket,
Size (waf) 30mm, 1/2" Drive

Necessary to loosen/unscrew the nozzle top part, e.g. on Bosch injector nozzles installed in Renault, Nissan 1.9 F9Q engines etc.

Technical Data:

Size (waf):	30mm
Drive:	1/2"
Length:	100mm



KL-0369-4505 A

Special Bit Insert, Size (waf) 10mm

Necessary to remove the threaded ring, e.g. on Bosch injector nozzles installed in CDI and HDI engines etc.

Technical Data:

Size (waf):	10mm
Drive:	10mm
Length:	38mm

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KL-0283-60 K

Injector Nozzle Puller Set, VW

Suitable for use on VW-Audi Diesel engines e.g.:

- 1.4 SDI / TDI
- 1.9 D / SDI / TDI / TDI (PD)
- 2.0 TDI SDI / TDI (PD)
- 2.0 TDI (PD 4-Valve)
- 2.0 TDI (Common Rail)
- 2.5 TDI
- 2.5 TDI (PD)
- 2.8 TDI (PD)
- 2.7 / 3.0 TDI (Common Rail)
- 4.2 TDI (Common Rail)

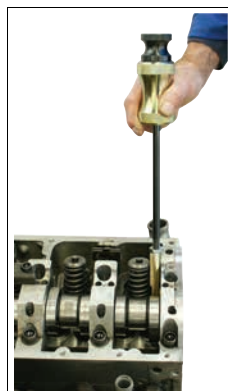
This tool allows for the quick and professional extraction of injector nozzles and unit-injector (PD) elements from Diesel engines.

Advantage:

- Its special composition makes this VW injector nozzle puller set the ideal tool for garages and workshops.
- Substantial time savings and professional working.

Scope of Delivery: KL-0283-60 K Injector Nozzle Puller Set, VW

Part No.	Description	Qty
KL-0283-6011	Injector Nozzle Puller Adaptor, VW	1
KL-0283-6012	Injector Nozzle Puller Adaptor, M14x1.5	1
KL-0283-6013	Injector Nozzle Puller Adaptor, M10	1
KL-0283-6014	Injector Nozzle Puller Adaptor, VW	1
KL-0283-602	Injector Nozzle Puller, without Slide Hammer, VW PD 2.0 16V	1
KL-0049-101	Slide Hammer (base tool)	1
KL-0049-1003	Hex Nut, M10	1
KL-0283-6090	Plastic Storage Case	1



KL-0283-600 K

Injector Nozzle Puller Set without Slide Hammer, VW

Suitable for use on VW-Audi Diesel engines e.g.:

- 1.4 SDI / TDI
- 1.9 D / SDI / TDI / TDI (PD)
- 2.0 TDI SDI / TDI (PD)
- 2.0 TDI (PD 4-Valve)
- 2.0 TDI (Common Rail)
- 2.5 TDI
- 2.5 TDI (PD)
- 2.8 TDI (PD)
- 2.7 / 3.0 TDI (Common Rail)
- 4.2 TDI (Common Rail)

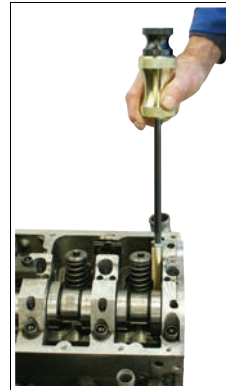
This tool is designed for the quick and professional extraction of injector nozzles and unit-injector (PD) elements from Diesel engines. Set is used in conjunction with slide hammer KL-0049-100.

Advantage:

- Substantial time savings and professional working.

Scope of Delivery: KL-0283-600 K Injector Nozzle Puller Set without Slide Hammer

Part No.	Description	Qty
KL-0283-6011	Injector Nozzle Puller Adaptor, VW	1
KL-0283-6012	Injector Nozzle Puller Adaptor, M14x1.5	1
KL-0283-6013	Injector Nozzle Puller Adaptor, M10	1
KL-0283-6014	Injector Nozzle Puller Adaptor, VW	1
KL-0283-602	Injector Nozzle Puller without Slide Hammer, VW PD 2.0 16V	1
KL-0283-6090	Plastic Storage Case	1



KL-0283-601 K

Injector Nozzle Puller Set (small set), VW

Suitable for use on VW-Audi Diesel engines e.g.:

- 1.4 SDI / TDI
- 1.9 D / SDI / TDI / TDI (PD)
- 2.0 TDI SDI / TDI (PD)
- 2.0 TDI (Common Rail)
- 2.5 TDI
- 2.5 TDI (PD)
- 2.8 TDI (PD)
- 2.7 / 3.0 TDI (Common Rail)
- 4.2 TDI (Common Rail)

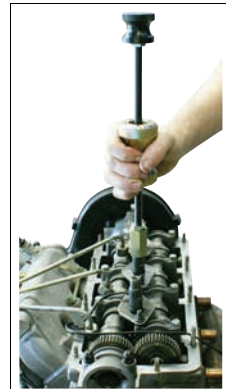
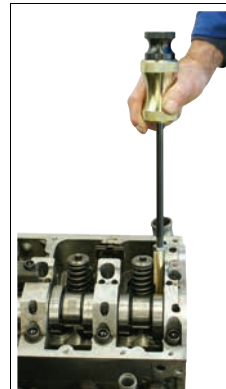
This tool is designed for the quick and professional extraction of injection nozzles from Diesel engines.

Advantage:

- Substantial time savings and professional working.

Scope of Delivery: KL-0283-601 K Injector Nozzle Puller Set (small set), VW

Part No.	Description	Qty
KL-0283-6011	Injector Nozzle Puller Adaptor, VW	1
KL-0283-6012	Injector Nozzle Puller Adaptor, M14x1.5	1
KL-0283-6013	Injector Nozzle Puller Adaptor, M10	1
KL-0283-6014	Injector Nozzle Puller Adaptor, VW	1
KL-0049-101	Slide Hammer Base Tool	1
KL-0049-1003	Hex Nut, M10	1
KL-0283-6090	Plastic Storage Case	1





KL-0283-602

Injector Nozzle Puller
without Slide Hammer, VW PD 2.0 16V

Suitable for use on 2.0 TDI (PD, 4-valve) Diesel engines.

This tool is required for the quick and professional extraction of unit-injector (PD) elements.



KL-0283-61

Dial Gauge Stand,
with Dial Gauge (Ø 58mm)

Required for adjusting the unit-injector (PD) elements.

Scope of Delivery:

KL-0283-61 Dial Gauge Stand, with Dial Gauge (Ø 58mm)

Part No.	Description	Qty
KL-0500-502	Dial Gauge Stand	1
KL-0128-1	Dial Gauge (Ø 58mm)	1

6



KL-0186-14 K

(German Utility Model)

Injector Nozzle Puller Set (Universal),
with Accessories

For Description, please refer to Chapter 6.4-01.



KL-0186-1233

Set of Support Bolts, M6, 145mm

Applicable to VW-Audi, Seat, Škoda 2.0 TDI (CFFB) Common Rail Diesel engines and Opel/Vauxhall 2.0 CDTi, VCDi (Z 20 DM, Z 20 DMH, Z 20 S) Common Rail Diesel engines. Installed, for example, in: VW Golf VI (5K), Eos (1F), Sharan (7N), Passat V (3C), Passat VI (36), Jetta (16), Passat CC (35), Tiguan (5N); Audi A3 (8P), Q3 (8U); Seat Alhambra (71); Škoda Superb II (3T); Opel/Vauxhall Antara, Chevrolet Captiva, Nubria estate car and Lacetti etc.

The **KL-0186-1233** support bolt set upgrades the injector nozzle puller set **KL-0186-14 K** by making it also suitable for use on the above mentioned engines.

KL-0049-2009

Adaptor, M14 to M14x1.5

Intended for use with slide hammer **KL-0049-200**, to dismount the injector at **e.g. VW-Audi TDI and BMW (e.g. M47) engines**.



KL-0049-200

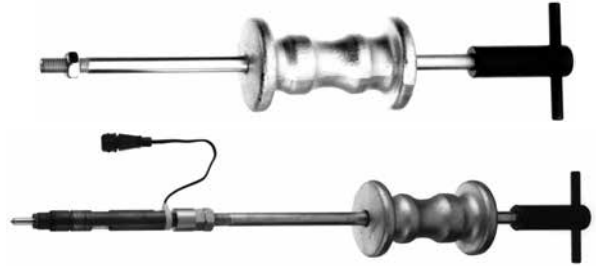
Slide Hammer Base Tool, 2.35kg

Universal application.

Intended for pulling or driving out the most different components. Used in conjunction with the respectively appropriate adaptor.

Scope of Delivery: KL-0049-200 Slide Hammer Base Tool, 2.35kg

Part No.	Description	Qty
KL-0049-2001	Pull Rod for KL-0049-2	1
KL-0049-2002	Hammer Weight, 2.4 kg	1
KL-0049-2004	Hex Nut, M14	1
KL-0049-2006	T-Handle (metal)	1



Technical Data:

Hammer Weight:	2.35kg
Length:	480mm

KL-0511-4

Special Socket (waf 17mm)

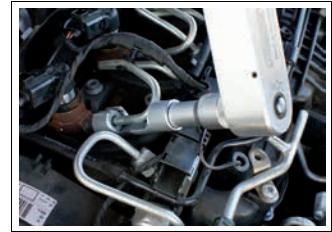
Universally suitable for the union nuts on high-pressure fuel lines in VW-Audi, Seat, Škoda Common Rail Diesel engines as found in: VW: Polo (6R); Golf (1K), (5K, AJ); Passat (3C); Audi: A1 (8X); A3 (8P); A4 (8K), A6 (4F); A8 (4E); Seat: Ibiza (6J); Leon (1P); Škoda: Fabia II (54); Oktavia II (1Z).

Specifically cut-out socket (waf 17mm) designed to facilitate the correct loosening and tightening of the union nuts that are found on high-pressure fuel lines of Common Rail Diesel engines.



Technical Data:

Overall length:	78mm
Cut-out length:	41mm
Drive:	3/8"
Dimension:	17mm



KL-0583-10 K

(German Utility Model)

Injector Nozzle Puller Set, BMW

Suitable for use on BMW Common Rail Diesel engines e.g.: M47TU, M57 and M57TU.

The **KL-0583-10 K** injector nozzle puller enables the removal of very tight-fitting/seized injection nozzles to be performed in situ on the vehicle without having to remove the cylinder head. The set also includes all the necessary tools for the cleaning of injector nozzle locating bores and seal seats.

The special extraction bridge and the pull spindle allow the user to extract the injector nozzle quickly and easily. (For this purpose, the injection nozzle needs to be opened.) The use of the compressed air adaptor prevents impurities from entering the combustion chamber during the cleaning process.

Procedure:

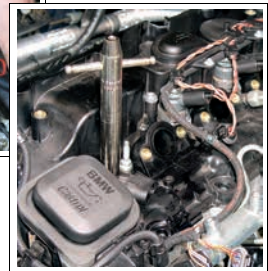
Unscrew nozzle head, screw in pull spindle, unscrew valve cover screws (4 screws), mount extraction bridge and screw on shoulder nut. Then, pull out injector nozzle by turning the shoulder nut.

Technical Data:

Weight:	7.2kg
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Scope of Delivery: KL-0583-10 K Injector Nozzle Puller Set, BMW

Part No.	Description	Qty
KL-0583-101	Puller (base tool)	1
KL-0583-102	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore M10x1	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0583-1090	Plastic Storage Case	1





Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	200mm

Scope of Delivery: KL-0583-1005 A Pull Spindle M17x1 with Nut

Part No.	Description	Qty
KL-0583-1005-1	Pull Spindle, M17x1, 200mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

KL-0583-1005 A

Pull Spindle, M17x1, with Nut, M27x1, 200mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in PSA (DW10), BMW, Fiat, Mercedes Diesel engines.

The pull spindle complements the injector nozzle pullers **KL-0583-10 K** and **KL-0186-14 K** respectively (in conjunction with the vehicle-specific upgrade kits **KL-0186-1234**, **KL-0186-130**, **KL-0186-190**, **KL-0186-210**) making these suitable for use also on very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.

KL-0583-103 A

Upgrade Kit, BMW

Designed for the BMW Turbo Diesel engine M47.

The upgrade kit is used in conjunction with the injector nozzle puller set **KL-0583-10 K**, thus allowing for the professional and precise removal of the specified injector nozzles. The **KL-0186-501** extension is specially designed for use on very deep-seated injector nozzles.

Note:

When using the **KL-0186-501** extension, the T-handle of the extension and the T-handle of cleaning tool **KL-0186-104** need to be interchanged.

Scope of Delivery: KL-0583-103 A Upgrade Kit, BMW

Part No.	Description	Qty
KL-0583-1031 A	Cleaning Tool for Injector Nozzle Seat	1
KL-0583-1032	Pull Spindle, 200mm long, for M14x1.5	1

KL-0583-104

Upgrade Kit,
Land Rover Freelander 2.0 TD4

The **KL-0583-104** kit upgrades the injector nozzle puller set **KL-0583-10 K** by making it also suitable for use on Land Rover Freelander 2.0 TD4 vehicles.

Scope of Delivery: KL-0583-104 Upgrade Kit, Landrover Freelander 2.0 TD4

Part No.	Description	Qty
KL-0583-1041	Socket Pin, 155mm long, with Set Screw	2
KL-0583-1042	Socket Pin, 180mm long, with Set Screw	2
KL-0583-1005 H	Pull Spindle, M17x1, 315mm long	1



KL-0511-50

Disconnect Tool for Leakage Fuel Line

Applicable to the BMW M57 (D306D2, D306D3, D306D4, D306D5, D30T2) 6-cylinder Diesel engines. As installed in BMW 3 Series (E90, E91, E92, E93); 5 Series (E60, E61); 6 Series (E63, E64); 7 Series (E65, E66); X3 (E83); X5 (E70) and X6 (E71).

Indispensable tool to professionally disconnect the leakage fuel line from injectors. Improper removal methods, for example, by using a pair of pliers, may cause damage to the leakage fuel line resulting in the entire line in the engine compartment to be replaced.



KL-0057-1

Socket for Pre-Combustion Chamber Engines

Suitable for use on Mercedes engines OM615, OM616 and OM617.

Used for unscrewing diesel pre-chamber threaded lock rings.

Scope of Delivery: KL-0057-1 Socket for Pre-Combustion Chamber Engines

Part No.	Description	Qty
KL-0057-0001	Screw	1
KL-0057-0002	Nut (with pins)	1



Technical Data:

Drive: 1/2"



KL-0369-3

Multi-Spline Socket for Pre-Combustion Chamber

Mercedes engines OM601, OM602, OM603 OM604, OM605 and OM606.

Used for removing Diesel pre-chamber threaded lock rings.

Technical Data:

Drive: 1/2"



KL-0049-25

Slide Hammer Puller for Pre-Combustion Chamber

Applicable to Mercedes engines OM615, OM616, OM617, OM601, OM602, OM603, OM604, OM605 and OM606.

Designed to remove stuck Diesel pre-combustion chambers.

Scope of Delivery:

KL-0049-25 Slide Hammer Puller for Pre-Combustion Chamber

Part No.	Description	Qty
KL-0049-2001	Pull Rod for KL-0049-2	1
KL-0049-2002	Hammer Weight, 2.4kg	1
KL-0049-2004	Hex Nut, M14	1
KL-0049-2006	T-Handle (metal)	1
KL-0049-2008	Adaptor, M14 to M12	1
KL-0369-4	Puller Bolt for Pre-Combustion Chamber, Mercedes	1



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KL-0369-11

Cleaning Tool for Injector Nozzle Holder Seat

Applicable to Mercedes Diesel engines OM601, OM602, OM603, OM604, OM605 and OM606

Indispensable for the quick and professional cleaning of the pre-combustion chamber sealing surface of the injector nozzle holder seat.

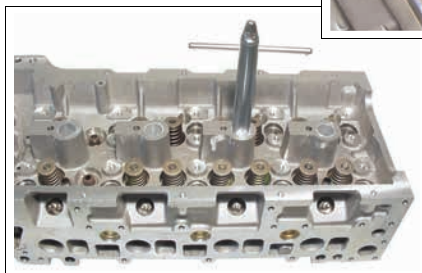
Technical Data:

Length:	218mm
Cleaning tool Ø:	33mm

Scope of Delivery: KL-0369-11 Cleaning Tool for Injector Nozzle Holder Seat

Part No.	Description	Qty
KL-0369-1101	Housing	1
KL-0369-1102	Milling Spindle (Drive 1/2")	1
KL-0369-1103	End Milling Cutter, Ø 33mm	1
KL-0369-1104	Cheese-Head Screw, M8x20mm	1
KL-0369-1105	Washer, Ø 8x21mm	1
KL-0369-1106	Circlip	1
KL-0369-1107	Protection Sleeve	1





KL-0369-45 K

Injector Nozzle Tool Set, Mercedes CDI

Applicable to Mercedes CDI engines OM611, OM612, OM613, OM628, OM646*, OM647, OM648 etc. (*not suitable for OM646 EVO)

The injector nozzle tool set **KL-0369-45 K** (composed of injector nozzle puller **KL-0369-41**, injector nozzle puller **KL-0369-45**, cleaning tool **KL-0369-20 A**, compressed-air adaptor **KL-0369-55 A**, screw tap **KL-0369-51**, and plastic storage case **KL-0369-4590**) enables the professional removal of injector nozzles.

The injector nozzle puller with slide hammer **KL-0369-41** is designed for the removal of injection nozzles which are only slightly seized in place without having to dismantle them. The injector nozzle puller with pull spindle **KL-0369-45** enables the removal of very tight-fitting or stuck injector nozzles to be performed directly on the vehicle. It is not necessary to remove the cylinder head from the vehicle using either of the pullers. The cleaning tool **KL-0369-20 A** allows the injection nozzle mounting hole, the nozzle seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation. By screwing the compressed air adaptor **KL-0369-55 A** into the glow plug bore and injecting air into the combustion chamber, impurities are prevented from entering the latter.

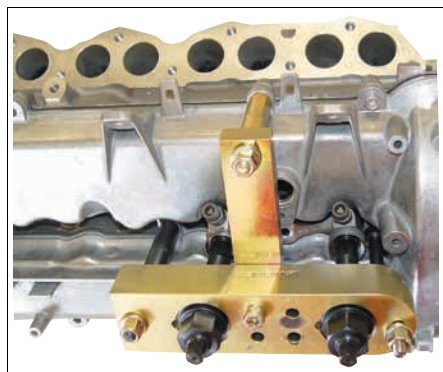
The screw tap with drill bit **KL-0369-51** is used for recutting and cleaning the tapped hole for the nozzle holder. This procedure is important before re-installing the injector nozzle.

Scope of Delivery:

KL-0369-45 K Injector Nozzle Tool Set, Mercedes CDI

Part No.	Description	Qty
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-41	Injector Nozzle Puller with Slide Hammer	1
KL-0369-45	Injector Nozzle Puller with Pull Spindle	1
KL-0369-51	Screw Tap, M6, with Drill Bit	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore M10x1	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-4590	Plastic Storage Case	1

6



KL-0369-46 K

Injector Nozzle Puller, Mercedes CDI

Applicable to Mercedes CDI engines OM668, e.g. A-Class

The **KL-0369-46 K** injector nozzle puller allows the extraction of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without having to remove the cylinder head.

On A-Class engines, the removal of injector nozzles is particularly difficult, since on these engines always two injector nozzles are held by one retaining clip. This means, that if one of the injector nozzles has to be removed, the second one needs be pulled out at the same time.

By using the special extraction bridge and the two pull spindles, the injector nozzles can be removed quickly and easily.

Procedure for the removal of injector nozzles:

Unscrew top part of injector nozzles by means of the special sockets included in the set. Screw pull spindles into injector nozzles, place pre-assembled extraction bridge onto valve cover and screw on shoulder nuts. Remove injector nozzles by evenly turning the shoulder nuts.

Scope of Delivery:

KL-0369-46 K Injector Nozzle Puller, Mercedes CDI

Part No.	Description	Qty
KL-0369-460 K	Injector Nozzle Puller Upgrade Kit	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1

KL-0369-4606 A

Pull Spindle, M17x1, with Nut, M27x1, 132mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in Alfa Romeo, BMW, Fiat, Mercedes, PSA (DW10) and Renault Diesel engines.

The pull spindle upgrades our **KL-0369-46 K**, **KL-1283-11 K**, **KL-1283-13 K**, **KL-1383-11 K** and **KL-1683-10 K** tools sets so that these can also be used with very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	132mm

Scope of Delivery:

KL-0369-4606 A Pull Spindle, M17x1, with Nut, M27x1

Part No.	Description	Qty
KL-0369-4606-1	Pull Spindle, M17x1, 132mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

KL-0186-170

(Patented)

Upgrade Kit for KL-0186-14 K

Applicable to Mercedes (OM651), Chevrolet (Z20DMH, Z20D1) and Opel/Vauxhall (Z22DMH) Diesel engines; as installed, for example, in: Mercedes C-Class (W204/S204 from 2007 onwards), E-Class (W212 from 2009 onwards), E-Class Coupé/Convertible (W207/C207 from 2009 onwards), GLK (X204 from 2008 onwards) and Sprinter II (906 from 2006 onwards); Chevrolet Cruze (J300), Orlando (J309) and Opel/Vauxhall Antara (L07).

The **KL-0186-170** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.

Scope of Delivery:

KL-0186-170 Upgrade Kit for KL-0186-14 K (to form KL-0186-17 K)

Part No.	Description	Qty
KL-0186-1233	Set of Support Bolts, M6, 145mm long	1
KL-0186-1711	Pull Spindle, M18, 145mm long	1
KL-0369-420	Injector Nozzle Puller	1
KL-0369-511 A	Screw Tap, M7, with Drill Bit	1



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KL-0369-41

Injector Nozzle Puller with Slide Hammer

Applicable to Mercedes CDI engines OM611, OM612, OM613, OM628, OM646*, OM647, OM648 etc. (*not suitable for OM646 EVO)

The puller is designed for the extraction of injector nozzles which are only slightly seized in place, without having to dismantle them or having to remove the cylinder head from the vehicle.

Its special design enables the puller to be supported additionally by the steel ball in the valve cover. This will prevent the puller from tilting during the loosening process.

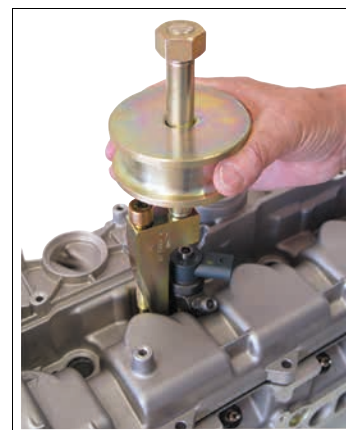
Technical Data:

Overall length:	250mm
Fork opening:	12mm

Scope of Delivery:

KL-0369-41 Injector Nozzle Puller with Slide Hammer, Mercedes

Part No.	Description	Qty
KL-0369-410	Injector Nozzle Puller without Slide Hammer, Mercedes	1
KL-0369-4103	Pull Rod, M18	1
KL-0369-4104	Slide Hammer, 1.5kg	1
KL-0049-3004	Nut, M18	1





Technical Data:

Total Length:	200mm
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KL-0369-42

(Patented)

Injector Nozzle Puller with 1.5kg Slide Hammer, Mercedes

Applicable to Mercedes CDI engines OM651 (Vehicles: C-Class (W/S204) 2007-, E-Class (W 212) 2009-, E-Class Coupe / Convertible (A/C 207) 2009-, GLK (X204) 2008- and Sprinter II (906) 2006-).

The puller allows for the extraction of only slightly seized injector nozzles without having to remove the cylinder head from the vehicle. (Note: The injector nozzle cannot be dismantled)

Thanks to the special design of the puller, the injector nozzle can be fixed via the holder in the fork head. This prevents the puller from tilting during the removal process and ensures, at the same time, optimum power transmission.

Scope of Delivery: KL-0369-42 Injector Nozzle Puller with 1.5kg Slide Hammer

Part No.	Description	Qty
KL-0369-420	Injector Nozzle Puller	1
KL-0369-4100	Slide Hammer Puller Base Tool, 1.5kg	1



Technical Data:

Overall length:	150mm
Drive:	24mm

KL-0369-45

Injector Nozzle Puller with Pull Spindle

Applicable to Mercedes CDI engines OM611, OM612, OM613, OM646*, OM647 and OM648 etc. (*except OM646 EVO)

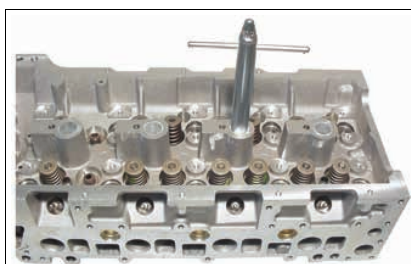
Allows the removal of very tight-fitting or stuck injector nozzles to be performed in situ on the vehicle, without the need for disassembling the cylinder head.

Procedure:

Unscrew nozzle head, screw in pull spindle, insert support rings, push support sleeve over the spindle and screw on shoulder nut. Then, remove nozzle by turning shoulder nut.

Scope of Delivery: KL-0369-45 Injector Nozzle Puller with Pull Spindle

Part No.	Description	Qty
KL-0369-4501	Support Sleeve	1
KL-0369-4606	Pull Spindle, M17x1, 132mm long	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4504	Support Ring	1
KL-0021-0006	Axial Bearing	1
KL-0040-3005	Circlip SB35	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-0014-0030	Molybdenum Disulphide Paste	1



Technical Data:

Drive:	T-Handle
Length:	261mm
Cleaning tool Ø:	7.5/17/19.1mm

KL-0369-20 A

Cleaning Tool for Injector Nozzle Seat, Common Rail Diesel Engines

Applicable to Common Rail Diesel engines:

- Mercedes OM611, OM612, OM613, OM639, OM640, OM642, OM646, OM647, OM648, OM651, OM668, Smart R660
- PSA 2.7 HDI / engine: DT17 and 3.0 HDI engine: DT20
- Chrysler 2.5 crd / engine: OM664
- Toyota 3.0 D-4D / engine: 1 KD-FTV
- Toyota 2.2 D-4D / engine: 2 AD-FHV, 2 AD-FTV
- Lexus 2.2 Diesel / engine: 2 AD-FHV

In a single operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seat, and the small aperture leading to the combustion chamber.

Important procedure before reinstalling an injector nozzle in order to prevent leakage between the cylinder head and the injector.

KL-0369-54

Compressed Air Adaptor Kit, M8x1, M9x1, M10x1 and M10x1.25

Universally suitable for use on glow plug mounting bore threads M8x1, M9x1, M10x1 and M10x1.25, as found in Alfa Romeo, BMW, Chrysler, Citroën, Fiat, Ford, Lancia, Lexus, Mercedes, Nissan, Opel/Vauxhall, Renault, Saab, Suzuki, Toyota, Volvo, etc.

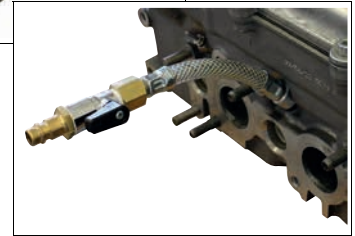
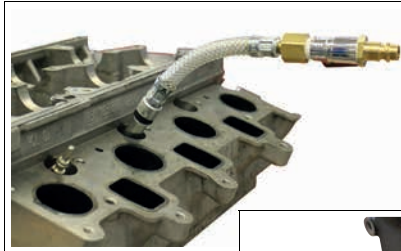
With the aid of the compressed air adaptor (in conjunction with the corresponding thread adaptor if necessary), which is to be screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter. The compressed air adaptor features a flexible hose allowing access even to glow plug bores that are hard to reach.

Technical Data:

Connection thread:	M8x1 / M9x1 / M10x1 / M10x1.25
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Scope of Delivery: KL-0369-54 Compressed Air Adaptor Kit

Part No.	Description	Qty
KL-0369-540	Compressed Air Adaptor, M10x1, with Flexible Hose	1
KL-0369-541	Thread Adaptor, M10x1 to M8x1	1
KL-0369-542	Thread Adaptor, M10x1 to M10x1.25	1
KL-0369-543	Thread Adaptor, M10x1 to M9x1	1



KL-0369-55 B

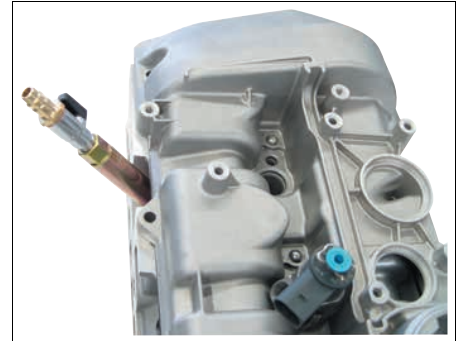
Compressed Air Adaptor for Glow Plug Bore

Universally applicable to, e.g., BMW, Mercedes, Chrysler, Opel/Vauxhall, Nissan, Renault etc.

With the aid of the **KL-0369-55 B** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

Technical Data:

Thread:	M10x1
Length:	178mm
Pipe Ø:	15x110mm



6

KL-0369-462 K

Cleaning Tool with Compressed Air Adaptor, for Injector Nozzle Seat

Applicable to Mercedes CDI engines OM611, OM612, OM613, OM646, OM647, OM648 and OM668. (not suitable for OM646 EVO)

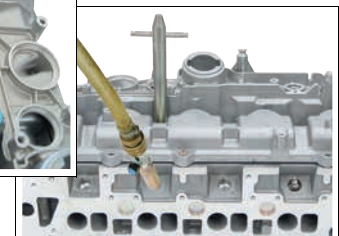
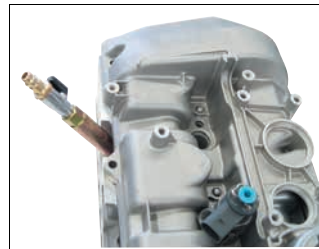
In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

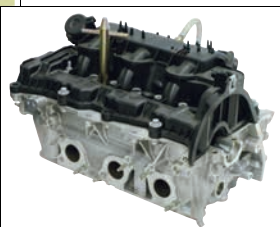
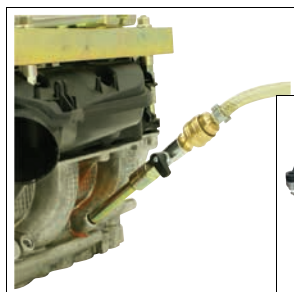
Impurities can be prevented from entering the combustion chamber by screwing the compressed air adaptor **KL-0369-55 A** into the glow plug bore hole and injecting air into the combustion chamber.

Scope of Delivery:

KL-0369-462 Cleaning Tool with Compressed Air Adaptor

Part No.	Description	Qty
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seal Seat	1
KL-0369-55 B	Compressed Air Adaptor for M10x1 Glow Plug Bore	1
KL-1383-1329	Plastic Storage Case	1





KL-1383-132 K

Cleaning Tool Set with Compressed Air Adaptor, for Injector Nozzle Seat

Applicable to: Mercedes: OM639, OM640, OM642, OM651; PSA: 2.7 HDI engine: DT17, 3.0 HDI engine: DT20

The special design of the cleaning tool **KL-0369-20 A** allows the injector nozzle mounting hole, the nozzle seal seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation.

Impurities can be prevented from entering the combustion chamber by screwing the compressed air adaptor **KL-1383-118** into the glow plug bore hole and injecting air into the combustion chamber.

Scope of Delivery: KL-1383-132 K Cleaning Tool Set with Compressed Air Adaptor, for Injector Nozzle Seat, Mercedes/PSA

Part No.	Description	Qty
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore M8x1	1
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-1329	Plastic Storage Case	1



KL-0369-59

Puller for Sealing Ring

Universally suitable for sealing rings with an internal diameter of 4-16mm, e.g. injector nozzle sealing rings as found in Diesel engines on BMW, Mercedes, PSA etc.

The **KL-0369-59** puller is designed for the professional removal of sealing rings; for example of those located between the injector nozzle and cylinder head.

To remove the sealing ring, screw the tapered tip of the tool into the ring, then pull it out with the aid of the slide hammer.

Technical Data:

Slide hammer weight:	0.9kg
Length:	385mm
For sealing ring internal Ø:	4-16mm



KL-0369-51 A

Screw Tap, M6, with Drill Bit, Mercedes

Applicable to Mercedes CDI engines OM611, OM612, OM613, OM646*, OM647 and OM648 etc. (*except OM646 EVO)

For re-tapping and cleaning the threaded bore hole in which the injection nozzle holder is fixed. These are indispensable work steps before installing/re-installing an injector.

Technical Data:

Length:	100mm
Thread:	M6



KL-0369-511 A

Screw Tap, M7, with Drill Bit with Spiral Grooves, Mercedes

Applicable to Mercedes OM651 CDI engines.

For re-tapping and cleaning the threaded bore hole in which the injection nozzle holder is fixed. These are indispensable work steps before installing/re-installing an injector.

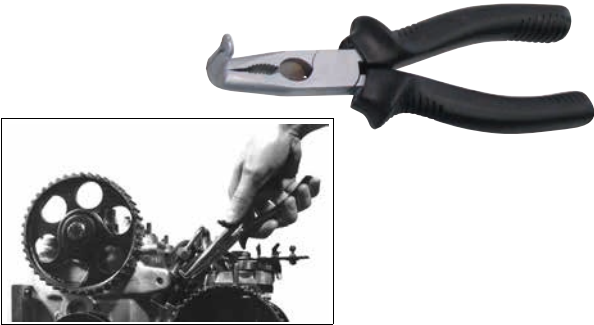
Technical Data:

Length:	100mm
Thread:	M7

KL-0192-23

Fuel Return Line Pliers

Ideal for use on Mercedes OM601, OM602, OM603 and VW Audi vehicles where the injection nozzles are located very deep in the cylinder head.
For removing fuel return lines from injector nozzles on Diesel engines.



KL-0489-10

Injector Nozzle Puller with Slide Hammer, Opel/Vauxhall

Applicable to Opel/Vauxhall Diesel engines, e.g. 2.2.
The injector nozzle puller **KL-0489-10** enables the removal of tightly fitting injectors within just a few minutes.

Technical Data:

Slide Hammer Weight:	0.9kg
Connecting thread (injector nozzle):	M17x0.75
Length:	185mm

Scope of Delivery: KL-0489-10 Injector Nozzle Puller with Slide Hammer

Part No.	Description	Qty
KL-0049-100	Slide Hammer Puller Base Tool	1
KL-0489-1001	Adaptor, M10 to M17x0.75	1



KL-1683-103

Cleaning Tool for Injector Nozzle Seat

Applicable to Common Rail Diesel engines on Opel/Vauxhall, Fiat, Lancia, Suzuki 1.3 JTD, 1.3 CDTi, 1.3 JTD, 1.3 DDIs / engine: Z13DT, 188A9.000.
In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.
Indispensable procedure before re-installing/installing an injection nozzle to avoid leakage between cylinder head and injector nozzle.



Technical Data:

Drive:	T-handle
Length:	261mm
Cleaning tool Ø:	7.5/17/17.6mm

KL-0186-51

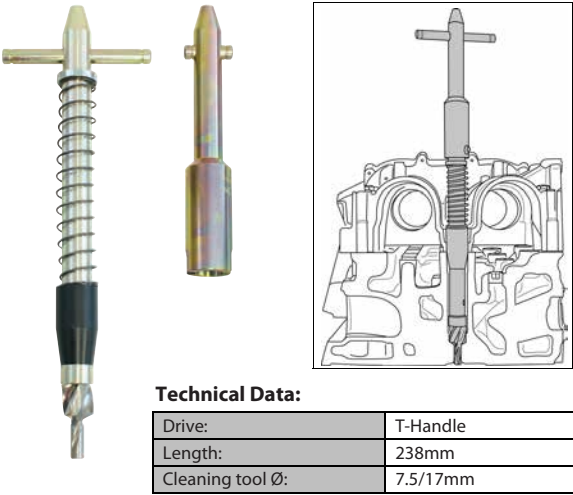
Cleaning Tool Set for Injector Nozzle Seat

(German Utility Model)

Suitable for use on the Fiat 2.3 JTD, 2.8 JTD and 3.0 JTD Diesel engines with conical injector nozzle seat.
The cleaning tool enables the quick and professional cleaning of conical injector nozzle seats.
Indispensable working step before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle.
The spring-loaded centring cone sleeve ensures accurate guidance of the cleaning tool in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble.

Scope of Delivery: KL-0186-51 Cleaning Tool Set for Injector Nozzle Seat

Part No.	Description	Qty
KL-0186-511	Cleaning Tool for Injector Nozzle Seat	1
KL-0186-501	Extension	1



Technical Data:

Drive:	T-Handle
Length:	238mm
Cleaning tool Ø:	7.5/17mm



KL-0186-14 K [German Utility Model]

Injector Nozzle Puller Set (Universal), with Accessories

For Description, please refer to Chapter 6.4-01.



KL-0186-130

Upgrade Kit for KL-0186-14 K (1.9, 2.3, 2.4, 3.0 JTD)

Applicable to Fiat Ducato, Citroën Relay/Jumper III, Peugeot Boxer III and Iveco 2.3; 2.4 and 3.0 JTD / HDI Common Rail Diesel engines (Engine Codes: F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE3481D, F1CE3481DM, F1CE3481E, F1CE3481N] also Euro 5), as well as Alfa Romeo 1.9 JTD (Engine code: 937A5.000).

The **KL-0186-130** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.

Scope of Delivery: KL-0186-130 Upgrade Kit (1.9, 2.3, 2.4, 3.0 JTD)

Part No.	Description	Qty
KL-0186-1232	Support Bolt Set, M8 (4-piece)	1
KL-0583-1032	Pull Spindle, M14x1.5, 200mm long	1
KL-0186-1261	Set of Spacer Nuts, 10mm (4-piece)	1



KL-0186-132

Upgrade Kit for KL-0186-14 K in conjunction with KL-0186-130

Applicable to the Fiat Ducato 3.0 JTD (Euro 5), Citroën Relay/Jumper III and Peugeot Boxer III 3.0 HDI (Euro 5) Common Rail Diesel engines. (Engine codes: F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N])

The **KL-0186-132** upgrade kit is used in conjunction with the injector nozzle puller set **KL-0186-14 K** and **upgrade kit KL-0186-130** to allow the removal of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without the need for dismantling the cylinder head.

The injector can be extracted in one piece quickly and easily using the special puller claw and the **KL-0583-1032 pull spindle** (supplied with **KL-0186-130**). The injector needs to be opened for this purpose.

Procedure: Unscrew injector top part, dismantle nozzle, screw in pull spindle, mount special puller claw, unscrew valve cover screws (4 screws) and replace with special support bolts, mount extraction bridge and screw on shoulder nut. Extract nozzle by turning the shoulder nut.

Scope of Delivery: KL-0186-132 Upgrade Kit for KL-0186-13 KA

Part No.	Description	Qty
KL-0186-1232 L	Set of Support Bolts M8, 180mm	1
KL-0186-1321	Special Injector Puller Claw	1
KL-0186-1322	Knurled Nut	1
KL-0186-1323	Hex Nut	1



KL-0186-1233

Set of Support Bolts, M6, 145mm

Applicable to VW-Audi, Seat, Škoda 2.0 TDI (CFFB) Common Rail Diesel engines and Opel/Vauxhall 2.0 CDTi, VCDi (Z 20 DM, Z 20 DMH, Z 20 S) Common Rail Diesel engines. Installed, for example, in: VW Golf VI (5K), Eos (1F), Sharan (7N), Passat V (3C), Passat VI (36), Jetta (16), Passat CC (35), Tiguan (5N); Audi A3 (8P), Q3 (8U); Seat Alhambra (71); Škoda Superb II (3T); Opel/Vauxhall Antara, Chevrolet Captiva, Nubria estate car and Lacetti etc.

The **KL-0186-1233** support bolt set upgrades the injector nozzle puller set **KL-0186-14 K** by making it also suitable for use on the above mentioned engines.

KL-1683-10 K

Injector Nozzle Puller Set, Fiat/Opel/Vauxhall/Suzuki

Suitable for use on Fiat, Opel/Vauxhall, Suzuki 1.3 Common Rail Diesel engines.
(engine code: A13DTE, Z13 DT, etc.)

This tool set enables the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle.

The removal of injector nozzles from this type of engines is particularly difficult due to the fact that always two injector nozzles are held by one retaining clip. This means, that when removing one of the injector nozzles, the second one needs to be pulled out at the same time.

The injector nozzles can quickly and easily be removed using the special extraction bridge and the two pull spindles.

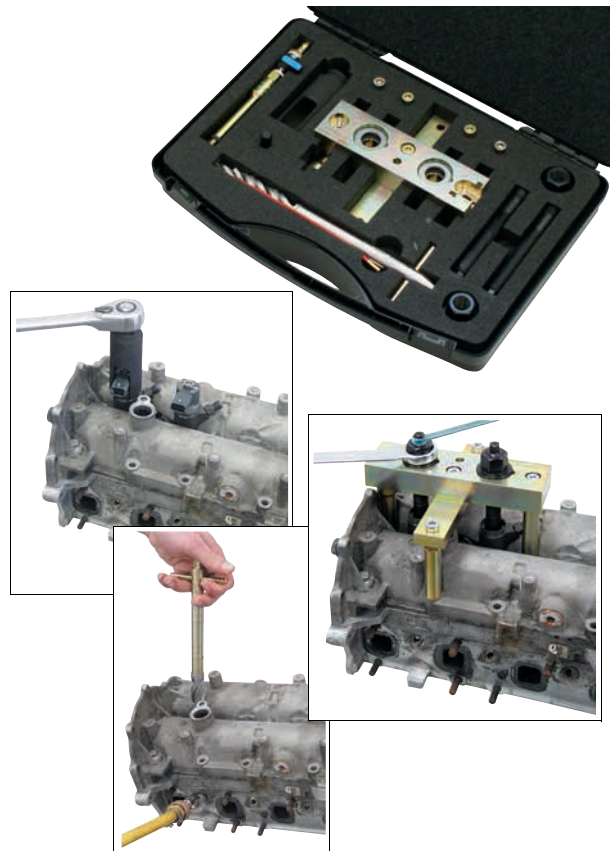
Procedure for the removal of the injector nozzles:

Unscrew injection nozzle heads with the special socket included in the set. Screw pull spindles into the injector nozzles, place pre-assembled extraction bridge onto the valve cover and screw on shoulder nuts. Pull out nozzles by evenly turning the shoulder nuts. By injecting compressed air into the combustion chamber impurities are prevented from entering the latter.

Scope of Delivery:

KL-1683-10 K Injector Nozzle Puller Set, Fiat/Opel/Vauxhall/Suzuki

Part No.	Description	Qty
KL-1683-105	Extraction Bridge with Spindle	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-1383-118	Compressed Air Adaptor for Glow Plug Bore M8x1	1
KL-1683-103	Cleaning Tool for Injector Nozzle Seat	1
KL-1683-1090	Plastic Storage Case	1



6

KL-0186-110

(Patented)

Injector Nozzle Puller without Slide Hammer, for M14x1.5, VW / Fiat / IVECO

Applicable to Fiat 2.8 JTD Diesel engines; e.g. Ducato, IVECO Daily and VW 2.0 TDI Common Rail engines (first and second generation) e.g. Golf 6, Tiguan, Touran (engine code CFFB) etc.

This tool enables the professional removal of injection nozzles without having to open or dismantle them. The slide hammer **KL-0369-4100** (1.5kg) or **KL-0049-300** (4.8kg) is needed to operate the tool.

An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

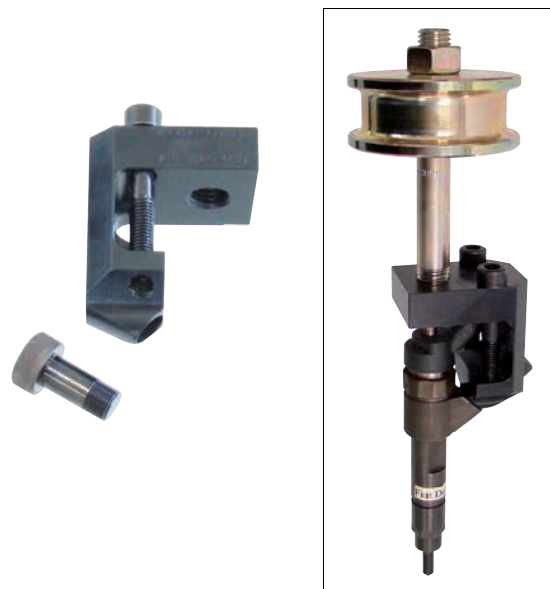
The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M14x1.5) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

Scope of Delivery:

KL-0186-110 Injector Nozzle Puller without Slide Hammer, for M14x1.5

Part No.	Description	Qty
KL-0186-1101	Injector Nozzle Puller Base Body for M14x1.5	1
KL-0186-1102	Special Screw, M14x1.5	1





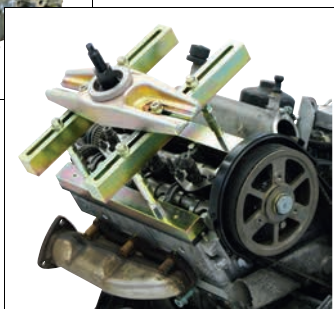
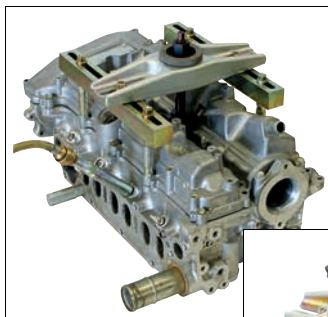
KL-0186-14 K [German Utility Model] Injector Nozzle Puller Set (Universal), with Accessories

Universally applicable to Diesel engines with injector nozzle connection thread M14x1.5 (external thread) or M17x1 (internal thread); for example:

- Mercedes: OM611, OM612, OM613, OM628**, OM629**, OM639, OM640, OM642**, OM646, OM646 EVO, OM647, OM648
- Peugeot, Citroën, Fiat, Lancia, Suzuki: DV6* [16V])
- Ford: 1.6 TDCi (G8DA, G8DB, HHDA, HJA, HHJB)
- VW-Audi: 2.5, 2.7 and 3.0 V6 Tdi
- Volvo: 1.6 D (D4164T), 2.2 D
- Mazda: Y6 (DV6* [16V])

*Note: Not suitable for Euro 5 [8V] engines.

**Note: V-engines might require the removal of the engine due to space constraints.



The injector nozzle puller **KL-0186-14 K** enables the removal of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without the need for dismantling the cylinder head.

The special extraction bridge and pull spindle allow the user to extract the injector nozzle quickly and easily.

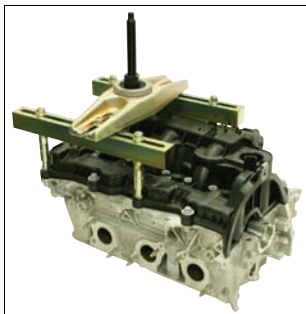
The extraction bridge is supported either by the support bolts that are screwed into the locating bores for the valve cover screws (M6) or by the support bars that are positioned on an even surface on the cylinder head. The spacer nuts allow the supporting surfaces to be levelled out, as well as the support bolts in bore holes with insufficient depth to be adjusted correctly.

Note:

Thanks to the various upgrade kits, which are available separately as accessories, the injector nozzle puller is also suitable for use on many other Common Rail Diesel engines such as PSA 2.7 and 3.0 Hdi (DT17, DT20), Fiat Ducato and Iveco 2.3, 2.4 and 3.0 JTD, Mercedes CDI (OM651), Renault, Nissan, Opel/Vauxhall 2.2, 2.5 and 3.0 dci (G9T, G9U and ZD3), as well as Toyota 2.2 (2AD-FHV, 2AD-FTV).

For Scope of Delivery, see Page 6.4-01

6



KL-0186-150 A Upgrade Kit (PSA HDI) for KL-0186-14 K

Applicable to PSA 2.7 (DT17) and 3.0 (DT20) Hdi Diesel engines.

The **KL-0186-150 A** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.

Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

Scope of Delivery:

KL-0186-150 A Upgrade Kit (PSA HDI) for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1254	Set of Spacer Nuts, 20mm	1
KL-1383-1113 H	Pull Spindle, M14x1.25, 240mm long	1
KL-1383-1021 H	Pull Spindle, M25x1, 240mm long	1
KL-1383-1022	Special Socket, Size (waf) 25mm, 1/2" drive	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



1 B - Combination Spanner UD-Profile



KL-1383-14 K

Injector Nozzle Puller Set, PSA 1.4, 1.6, 2.0 8V HDI

Applicable to Peugeot, Citroën and Fiat 1.4 8V (DV4 - Euro 4 and Euro 5), 1.6 8V (DV6 - Euro 5) and 2.0 8V HDI (DW10) Diesel engines. As installed in Citroën C1, C2, C3, C4, C5, C8, DS3, DS4, Berlingo, Evasion, Jumper, Jumper II, Jumpy, Xantia, Xsara; Peugeot 107, 206, 207, 306, 307, 308, 406, 508, 607, 806, 807, 1007, 3008, 5008, Boxer, Boxer II, Expert, Partner and Fiat Ducato, Scudo, Ulysse etc.

An indispensable tool set for the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle. The **KL-1383-14 K** injector nozzle puller set allows for the accurate extraction of very tight-fitting injector nozzles as well as for the professional cleaning of the injector nozzle bore and seal seat. The removal of the cylinder head is not necessary.

The special pull spindle with union nut is specifically designed for use on the above mentioned vehicles to ensure safe and accurate support of the puller tools, even if injectors are very tight-fitting or seized in place.

The use of the special pull spindle with additional union nut will facilitate the extraction of even the most stubborn injectors.

- The injector nozzle needs to be opened for this.

Procedure for Injector Nozzle Removal:

Unscrew injector nozzle top part by means of the special socket included in the set. Screw pull spindle into injector nozzle, and, if using the pull spindle with union nut, additionally screw union nut onto the injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly turning shoulder nut. Make sure that no impurities can enter the combustion chamber by injecting compressed air into the latter.

Scope of Delivery:

KL-1383-14 K Injector Nozzle Puller Set, PSA 1.4, 1.6, 2.0 8V HDI

Part No.	Description	Qty
KL-1383-140 K	Injector Nozzle Puller Set, PSA 1.4, 1.6, 2.0 8V HDI	1
KL-0186-50	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-118	Compressed Air Adaptor for Glow Plug Bore M8x1	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore M10x1	1

Scope of Delivery:

KL-1383-140 K Injector Nozzle Puller Set, PSA 1.4, 1.6, 2.0 8V HDI

Part No.	Description	Qty
KL-1383-1400	Base Tool	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-1383-1221	Pull Spindle, M27x1, 127mm long	1
KL-0369-4606 A	Pull Spindle, M17x1, 132mm long, with Union Nut	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4505 A	Special Bit Insert, (waf) 10mm	1
KL-0369-461 A	Special Socket, (waf) 29mm, 1/2" drive	1
KL-1383-1022	Special Socket, (waf) 25mm, 1/2" drive	1
KL-1383-1222 A	Special Socket, (waf) 27mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-1383-1490	Plastic Storage Case with Insert	1

Scope of Delivery:

KL-1383-1400 Base Tool

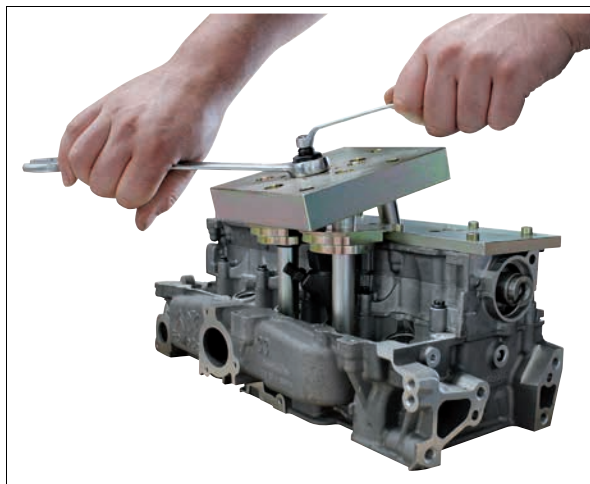
Part No.	Description	Qty
KL-1383-1401	Plate	1
KL-1383-1402	Base Plate (assembled)	1
KL-1383-1403	Socket Pin, Ø 20x120mm	2
KL-1383-1404	Support Bolt, DV4/DV6	1
KL-1383-1405	Support Bolt, DW10	2
KL-1383-1406	Support, DW10	1
KL-0055-0012	Cheese Head Screw, M6x25mm	8
KL-1283-1016	Cheese Head Screw, M8x30mm	2
KL-5501-3019	Cheese Head Screw, M10x25mm	1
KL-1383-1407	Support Disc	2



(Engine codes: DV4C, DV4TD, DV4TED, DV6C, DV6CTED, DV6DTEd, DW10ATED, DW10TD, DW10UTD, 8HR, 8HT, 8HX, 8HZ, 9HF, 9HL, 9HP, 9HR, RHS, RHV, RHY, RHZ)

Note:

Be sure to read and observe the injector nozzle manufacturer's instructions and specifications before starting to re-install an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.





Technical Data:

External Ø (sleeve):	28.3mm
Length (sleeve):	150mm
Length (guide cone):	54mm

KL-1383-30

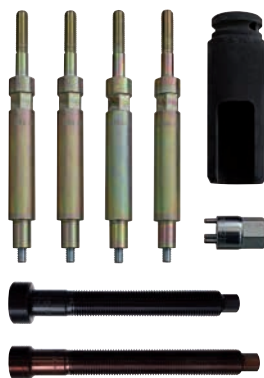
Seal Ring Installation Tool DV6 (16V)

Applicable to PSA 1.6 16V (DV6) Diesel engines. For example, fitted to Peugeot: 1007, 2008, 206 CC, 207, 207 CC, 208, 3008, 301, 307, 308, 308 CC, 4008, 407, 5008, 508, Expert III, Partner I, Partner II, Partner III; Citroën: Berlingo, Berlingo II, Berlingo III, C2, C3 I, C3 II, C3 III, C3 Picasso, C4, C4 II, C4 Picasso, C4 Picasso II, C4 Grand Picasso, C4 Grand Picasso II, C4 Sedan, C4 Aircross, C5 II, C5 III, C-Elysee, Dispatch, Jumpy III, DS3, DS3 Convertible, DS4, DS5, Xsara Picasso; Fiat: Scudo; Volvo: C30, S40, S80, V50, V70; Ford: C-Max, Fiesta, Focus, Focus C-Max, Fusion; Mazda: 2, 3, 5 and Suzuki: SX4, SX4 Classic. (Engine codes: DV6, G8DA, G8DB, HHDA, HJA, HHJB, D4164T, Y6, 9HX.)

This tool allows the user to quickly and professionally press the shaft seal into the injector location hole. The guide cone included in the kit ensures that the shaft seal is press-fitted in a straight line.

Scope of Delivery: KL-1383-30 Seal Ring Installation Tool DV6 (16V)

Part No.	Description	Qty
KL-1383-3001	Guide Cone	1
KL-1383-3002	Sleeve	1



KL-0186-230

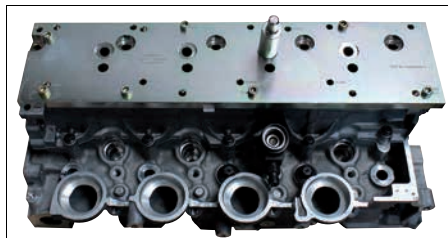
Upgrade Kit to KL-0186-14 K

Applicable to Ford, Fiat, Citroën and Peugeot 2.2 Diesel engines. Installed, for example, in: Ford Transit (from 2006 onwards), Tourneo; Fiat Ducato (from 2006 to 2012), Citroën Relay/Jumper III and Peugeot Boxer III. (Engine codes: 4HM, 4HU, 4HV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

The **KL-0186-230** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.

Scope of Delivery: KL-0186-230 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1233	Set of Support Bolts, M6, 145mm	1
KL-1383-1022	Special Socket, Size (waf) 25mm, 1/2" drive	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-0186-2201	Special Insert	1
KL-0186-1611	Pull Spindle, M20x1, 145mm long	1



Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. Screw pull spindle into injector nozzle, and, if using the pull spindle with union nut, additionally screw union nut onto the injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.

KL-1383-141 K

Injector Nozzle Puller Set, PSA 2.0 8V HDI

Applicable to Peugeot, Citroën und Fiat 2.0 8V HDI (DW10) Diesel engines; as installed in Citroën C4, C5, C8 Berlingo, Evasion, Jumper, Jumper II, Jumpy, Xantia, Xsara; Peugeot 206, 306, 307, 406, 607, 806, Boxer II, Expert, Partner and Fiat Ducato, Scudo, Ulysse etc. (Engine codes: DW10ATED, DW10TD, DW10UTD, RHS, RHZ, RHY, RHV)

An indispensable tool set for the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle. The **KL-1383-141 K** injector nozzle puller set allows for the accurate extraction of very tight-fitting/stuck injector nozzles. The removal of the cylinder head is not necessary. The special pull spindle with union nut is specifically designed for use on the above mentioned vehicles to ensure safe and accurate support of the puller tools, even if injectors are very tight-fitting or seized in place. The use of the special pull spindle with additional union nut will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this.

Note: Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

Scope of Delivery: KL-1383-141 K Injector Nozzle Puller Set, PSA 2.0 8V HDI

Part No.	Description	Qty
KL-1383-1400	Base Tool	1
KL-1383-1221	Pull Spindle, M27x1, 127mm long	1
KL-0369-4606 A	Pull Spindle, M17x1, 132mm long, with union nut	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4505 A	Special Bit Insert, (waf) 10mm	1
KL-0369-461 A	Special Socket, (waf) 29mm, 1/2" drive	1
KL-1383-1222 A	Special Socket, (waf) 27mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-1383-1490	Plastic Storage Case with Insert	1

KL-1383-142 K

Injector Nozzle Puller Set, PSA 1.4 8V HDI

Applicable to Peugeot and Citroën 1.4 8V (DV4 - Euro 4 and Euro 5) Diesel engines; as installed in Citroën C1, C2, C3, DS3, Xsara, and Peugeot 107, 206, 207, 307 1007 etc. (Engine codes: DV4C, DV4TD, DV4TED, 8HR, 8HT, 8HX, 8HZ)

An indispensable tool set for the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle. The **KL-1383-142 K** injector nozzle puller set allows for the accurate extraction of very tight-fitting or stuck injector nozzles. The removal of the cylinder head is not necessary. The special pull spindle with union nut is specifically designed for use on the above mentioned vehicles to ensure safe and accurate support of the puller tools, even if injectors are very tight-fitting or seized in place. The use of the special pull spindle with additional union nut will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this.

Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. Screw pull spindle into injector nozzle, and, if using the pull spindle with union nut, additionally screw union nut onto the injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.

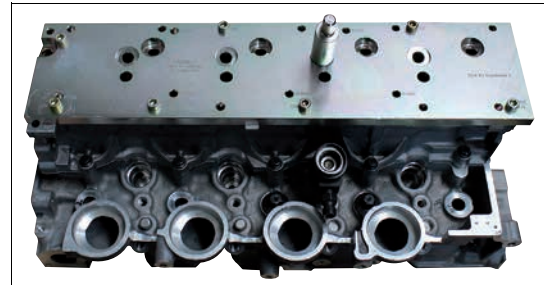
Scope of Delivery: KL-1383-142 K Injector Nozzle Puller Set, PSA 1.4 8V HDI

Part No.	Description	Qty
KL-1383-1400	Base Tool	1
KL-0369-4606 A	Pull Spindle, M17x1, 132mm long, with Union Nut	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4505 A	Special Bit Insert, (waf) 10mm	1
KL-0369-461 A	Special Socket, (waf) 29mm, 1/2" Drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-1383-1490	Plastic Storage Case with Insert	1



Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.



KL-1383-143 K

Injector Nozzle Puller Set, PSA 1.6 8V HDI

Applicable to Peugeot and Citroën 1.6 8V (DV6 - Euro 5) Diesel engines; as installed in Citroën C3, C4, C5, DS3, DS4, Berlingo, and Peugeot 207, 308, 508, 3008, 5008, Partner etc. (Engine codes: DV6C, DV6CTED, DV6DTE, 9HF, 9HL, 9HP, 9HR)

An indispensable tool set for the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle. The **KL-1383-143 K** injector nozzle puller set allows for the accurate extraction of very tight-fitting or stuck injector nozzles. The removal of the cylinder head is not necessary. The special pull spindle with union nut is specifically designed for use on the above mentioned vehicles to ensure safe and accurate support of the puller tools, even if injectors are very tight-fitting or seized in place. The use of the special pull spindle with additional union nut will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this.

Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. Screw pull spindle into injector nozzle, and, if using the pull spindle with union nut, additionally screw union nut onto the injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.

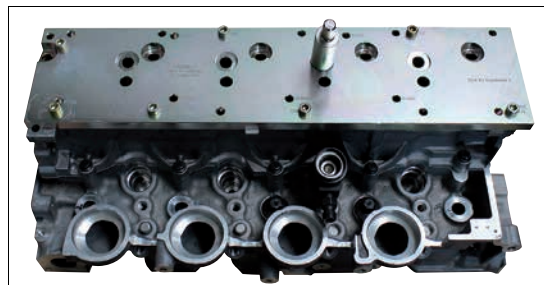
Scope of Delivery: KL-1383-143 K Injector Nozzle Puller Set, PSA 1.6 8V HDI

Part No.	Description	Qty
KL-1383-1400	Base Tool	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-0369-4606 A	Pull Spindle, M17x1, 132mm long, with Union Nut	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4505 A	Special Bit Insert, (waf) 10mm	1
KL-0369-461 A	Special Socket, (waf) 29mm, 1/2" Drive	1
KL-1383-1022	Special Socket, (waf) 25mm, 1/2" Drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-1383-1490	Plastic Storage Case with Insert	1



Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.





KL-1383-11 KA

Injector Nozzle Puller Set, PSA 2.0 HDi + 2.2 HDi

Applicable to PSA 2.0 (110bhp, 135bhp) [DW10] and 2.2 [DW12] HDI TwinCam engines as found in Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot, Suzuki, Volvo etc.

This really useful tool set allows for the professional removal of very tight-fitting/stuck injector nozzles, without the need for dismantling the cylinder head.

The **KL-1383-11 KA** injector nozzle puller set is designed for the accurate extraction of very tight-fitting injector nozzles, as well as for the cleaning of the injector nozzle bore and seal seat.

The removal of the cylinder head is not necessary.

The extraction bridge is specifically designed for the above mentioned vehicles in order to ensure safe and accurate support of the puller tools, even if injectors are stuck or seized in place.

The special pull spindle with additional union nut (to be used on DW10 engines) will facilitate the extraction of even the most stubborn injectors.

The injector nozzle needs to be opened for this. (engines: DW10)

Note: Be sure to read and observe the injector nozzle manufacturer's directions and specifications before attempting to re-install an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. (DW10): Screw pull spindle into injector, and, if using the pull spindle with union nut, additionally screw union nut onto injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly turning shoulder nut. Inject compressed air into the combustion chamber in order to prevent impurities from entering the latter.

Scope of Delivery:

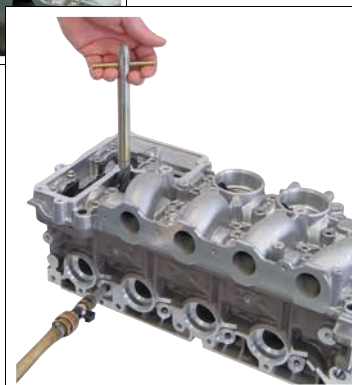
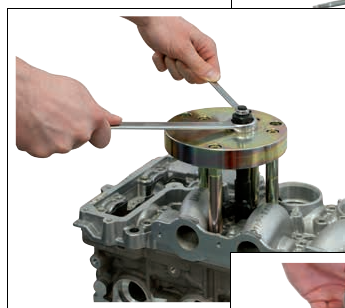
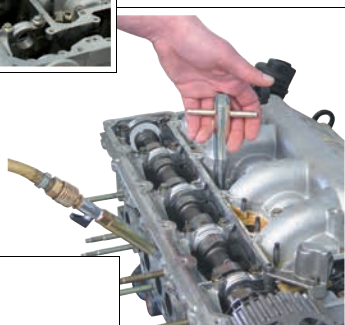
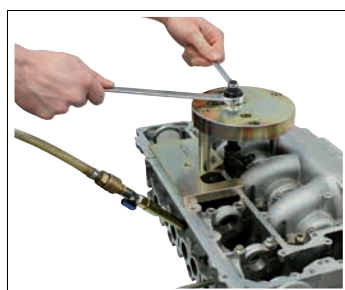
KL-1383-11 KA Injector Nozzle Puller Set, PSA 2.0 HDi + 2.2 HDi

Part No.	Description	Qty
KL-1383-118	Compressed Air Adaptor for Glow Plug Bore M8x1	1
KL-1383-119	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-104	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore M10x1	1
KL-1383-110 KA	Injector Nozzle Puller Set, Peugeot/Citroën 2.0 HDi + 2.2 HDi	1
KL-1383-1119	Plastic Storage Case	1

Scope of Delivery:

KL-1383-110 KA Injector Nozzle Puller Set, Peugeot/Citroën 2.0 HDi + 2.2 HDi

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm long	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	2
KL-1383-1115	Support Bolt, Ø 8.9mm	2
KL-1383-1116	Support Bolt, Ø 16x89.5mm	1
KL-1383-1131	Brace Support Bolt, Ø 16x73.5mm	2
KL-1383-1001	Supporting Plate	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-1383-1022	Special Socket, size (waf) 25mm, 1/2" drive	1
KL-0369-4505 A	Special Bit Insert, size (waf) 10mm	1
KL-0369-4606 A	Pull Spindle, M17x1, with Union Nut M27x1	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-1283-1016	Cheese Head Screw, M8x30mm	4
KL-0014-0030	Molybdenum Disulphide Paste 50g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-1119	Plastic Storage Case	1



KL-1383-113 KA

Injector Nozzle Puller Set, PSA 2.0 HDI

Applicable to PSA 2.0 (110bhp, 135bhp) [DW10] TwinCam engines such as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

This indispensable tool set allows for the professional removal of very tight-fitting injector nozzles, without the need for dismantling the cylinder head. The injector nozzle puller **KL-1383-113 KA** enables accurate extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle bore and seal seat. The removal of the cylinder head is not necessary. The special design of the extraction bridge ensures safe and accurate support of the puller tools, even if injectors are severely stuck or seized in place. The special pull spindle with additional union nut (to be used on DW10 engines) will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this. (engines: DW10)

Scope of Delivery: KL-1383-113 KA Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	1
KL-1383-1131	Brace Support Bolt, Ø 16x73.5mm	2
KL-1383-1001	Support Plate	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-1383-1022	Special Socket, waf 25mm; 1/2" Drive	1
KL-1383-104	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-4606 A	Pull Spindle, M17x1, with Nut, M27x1, 132mm long	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" Drive	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore	1
KL-1283-1016	Cheese Head Screw, M8x30mm	3
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-1383-1119	Plastic Storage Case	1



Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. (DW10): Screw pull spindle into injector, and, if using the pull spindle with union nut, additionally screw union nut onto injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut. Impurities can be prevented from entering the combustion chamber by injecting compressed air into the latter.

KL-1383-114 KA

Injector Nozzle Puller Set, PSA 2.0 HDI

Applicable to PSA 2.0 (110bhp, 135bhp) [DW10] TwinCam engines such as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

This indispensable tool set allows for the professional removal of very tight-fitting injector nozzles, without the need for dismantling the cylinder head. The injector nozzle puller **KL-1383-114 KA** enables accurate extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle bore and seal seat. The removal of the cylinder head is not necessary. The special design of the extraction bridge ensures safe and accurate support of the puller tools, even if injectors are severely stuck or seized in place. The special pull spindle with additional union nut (to be used on DW10 engines) will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this. (engines: DW10)

Scope of Delivery: KL-1383-114 KA Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	1
KL-1383-1131	Brace Support Bolt, Ø 16x73.5mm	2
KL-1383-1001	Support Plate	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-1383-1022	Special Socket, waf 25mm; 1/2" Drive	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-4606 A	Pull Spindle, M17x1, with Nut, M27x1, 132mm long	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" Drive	1
KL-1283-1016	Cheese Head Screw, M8x30mm	3
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-1119	Plastic Storage Case	1



Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. (DW10): Screw pull spindle into injector, and, if using the pull spindle with union nut, additionally screw union nut onto injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.



KL-1383-12

Injector Nozzle Puller with Slide Hammer (4.8 kg), PSA 2.0

Applicable to PSA 2.0 (90bhp) [DW10 TD] HDI single-camshaft engines as installed in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

This tool is designed for the removal of tightly fitting injection nozzles.

Scope of Delivery:

KL-1383-12 Injector Nozzle Puller with Slide Hammer (4.8 kg), PSA 2.0

Part No.	Description	Qty
KL-1383-121	Pull Spindle Set, M17x1 [for Bosch injector nozzles]	1
KL-1383-122	Pull Spindle Set, M27x1 [for Siemens injector nozzles]	1
KL-0369-411	Injector Nozzle Puller with 4.8kg Slide Hammer (without Pull Spindle)	1



Technical Data:

Drive:	T-Handle
Length:	261mm
Cleaning tool Ø:	7.5/17mm

KL-1383-104

Cleaning Tool for Injector Nozzle Seat, Peugeot/Citroën/Fiat/Lancia/Suzuki

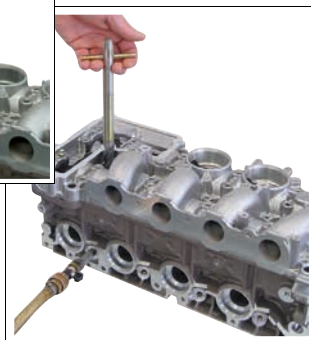
Applicable to 2.0 HDI, 2.0 JTD Common Rail Diesel engines on Peugeot, Citroën, Fiat, Lancia, Suzuki; engine code: DW10

- Mercedes; engine code: OM646 EVO
- Renault, Nissan, Vauxhall/Opel 2.2 DTI, CDTI, CDI; engine code: G9T
- Renault, Nissan, Vauxhall/Opel 2.5 DTI, CDTI, CDI; engine code: G9U

The special design of this cleaning tool enables the injection nozzle bore, the seal seat and the injector channel to be cleaned in one single operation.

Important! Before any re-installation/installation of an injector, it is essential to clean the seal seat in the cylinder head from deposits such as carbon deposits in order to prevent leakage between cylinder head and injector.

6



KL-1383-111 K

Injector Nozzle Puller Set, PSA 2.2 HDI

Applicable to PSA 2.2 [DW12] HDI TwinCam engines such as Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.

Indispensable for the professional removal of very tight-fitting/stuck injector nozzles without removal of the cylinder head from the vehicle. The injector nozzle puller **KL-1383-111 K** enables the accurate extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle bore and injector seal seat. The removal of the cylinder head is not necessary. The special design of the extraction bridge ensures safe and accurate support, even if the injector nozzles are extremely tight-fitting or seized in place.

Procedure of injector nozzle removal:

Screw pull spindle onto the injector nozzle, place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut. Impurities can be prevented from entering the combustion chamber by injecting compressed air into the latter.

Scope of Delivery: KL-1383-111 K Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm long	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	2
KL-1383-1115	Support Bolt, Ø 8.9mm	2
KL-1383-1116	Support Bolt, Ø 16x89.5mm	1
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore	1
KL-1383-119	Cleaning Tool for Injector Nozzle Seat	1
KL-1283-1016	Cheese Head Screw, M8x30	4
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-1383-1119	Plastic Storage Case	1

KL-1383-112 K

Injector Nozzle Puller Set Peugeot / Citroën 2.2 HDi

Applicable to PSA 2.2 [DW12] HDI TwinCam engines such as Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.

Allows for the professional removal of very tight-fitting injector nozzles without removing the cylinder head from the vehicle.

The injector nozzle puller **KL-1383-112 K** enables the accurate extraction of very tight-fitting injector nozzles. Removal of the cylinder head is not necessary.

The special design of the extraction bridge ensures safe and accurate support, even if the injector nozzles are extremely tight-fitting/seized in place.

Procedure of the injector nozzle removal:

Screw pull spindle onto the injector nozzle, place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.

Scope of Delivery:

KL-1383-112 K Injector Nozzle Puller Set Peugeot / Citroën 2.2 HDi

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm long	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	2
KL-1383-1115	Support Bolt, Ø 8.9mm	2
KL-1383-1116	Support Bolt, Ø 16x89.5mm	1
KL-1283-1016	Cheese Head Screw, M8x30	4
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-1383-1119	Plastic Storage Case	1



KL-1383-119

Cleaning Tool for Injector Nozzle Seat, Peugeot/Citroën/Fiat/Lancia

Applicable to the 2.2 HDi, 2.2 JTD Common Rail Diesel engines DW12 on Peugeot, Citroën, Fiat, Lancia.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injector nozzle to avoid leakage between cylinder head and injector nozzle.



Technical Data:

Drive:	T-handle
Length:	275mm
Cleaning tool Ø:	7.5/17/19.6mm

KL-1383-1311

Cleaning Tool for Injector Nozzle Seat, PSA 1.6

Applicable to 1.6 PSA Common Rail Diesel engines on

- Fiat 1.6 HDi; engine code: DV6, 9HX, 9HY, 9HZ
- Ford 1.6 TDCi; engine code: G8DA, G8DB, HHDA, HHJA, HHJB
- Volvo 1.6 D; engine code: D4164T
- Mazda 1.6 D; engine code: Y6

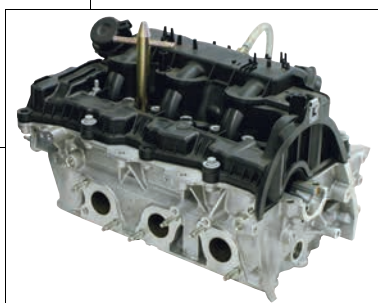
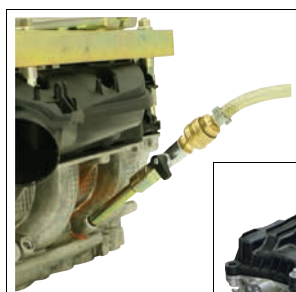
In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injector nozzle to avoid leakage between cylinder head and injector nozzle.



Technical Data:

Drive:	T-handle
Length:	295mm
Cleaning tool-Ø:	7.5/17/17.6/18.7mm



KL-1383-131 K

Cleaning Tool for Injector Nozzle Seat, with Compressed Air Adaptor, PSA/Ford/Volvo/Mazda

Applicable to:

- PSA, Fiat 1.6 16V HDI engines: DV6, 9HX, 9HY, 9HZ
- Ford 1.6 16V TDCi engines: G8DA, G8DB, HHDA, HHJA, HHJB
- Volvo 1.6 16V D engines: D4164T
- Mazda 1.6 16V D engines: Y6

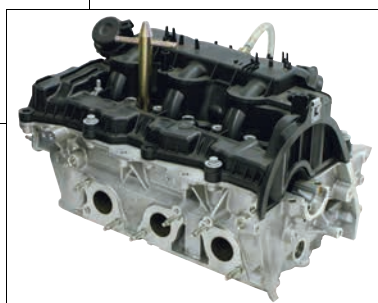
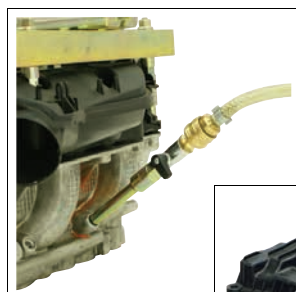
The special design of the cleaning tool **KL-1383-1311** allows the injector nozzle mounting hole, the nozzle seal seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation. Impurities can be prevented from entering the combustion chamber by screwing the compressed air adaptor **KL-1383-118** into the glow plug bore hole and injecting air into the combustion chamber.

Scope of Delivery:

KL-1383-131 K Cleaning Tool for Injector Nozzle Seat

Part No.	Description	Qty
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore	1
KL-1383-1311	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-1329	Plastic Storage Case	1

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KL-1383-132 K

Cleaning Tool Set for Injector Nozzle Seat, with Compressed Air Adaptor, Mercedes/PSA

Applicable to: Mercedes: OM639, OM640, OM642, OM651; PSA: 2.7 HDI engine: DT17, 3.0 HDI engine: DT20.

The special design of the cleaning tool **KL-0369-20 A** allows the injector nozzle mounting hole, the nozzle seal seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation.

Impurities can be prevented from entering the combustion chamber by screwing the compressed air adaptor **KL-1383-118** into the glow plug bore hole and injecting air into the combustion chamber.

Scope of Delivery:

KL-1383-132 K Cleaning Tool Set for Injector Nozzle Seat

Part No.	Description	Qty
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore M8x1	1
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-1329	Plastic Storage Case	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



1 B - Combination Spanner UD-Profile



KL-1683-30 K

Injector Clamp Screw Drill-Out Tool Kit, Citroën, Peugeot, Fiat, Iveco 2.3, 3.0 HDI/JTD/HPI

Suitable for use on Citroën and Peugeot 3.0 HDI, as well as Fiat and Iveco 2.3, 3.0 JTD/HPI Common Rail Diesel engines; for example, as fitted to: Citroën Relay/Jumper III; Peugeot Boxer III; Fiat Ducato and Iveco Daily. (Engine codes: F1AE0481A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481F, F1CE0481H, F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE 0481D, F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N])

The **KL-1683-30 K** injector clamp screw drill-out tool kit enables the accurate removal respectively drilling out of torn-off screws that hold the injector clamp in place, as well as re-cutting the original M8x1.25 thread.

It also allows the user to repair a damaged M8x1.25 injector clamp screw retaining thread by drilling it up to M10x1.25. Then, the new injector clamp screw along with a threaded sleeve (M10x1.25 to M8x1.25) can be screwed into the cylinder head.

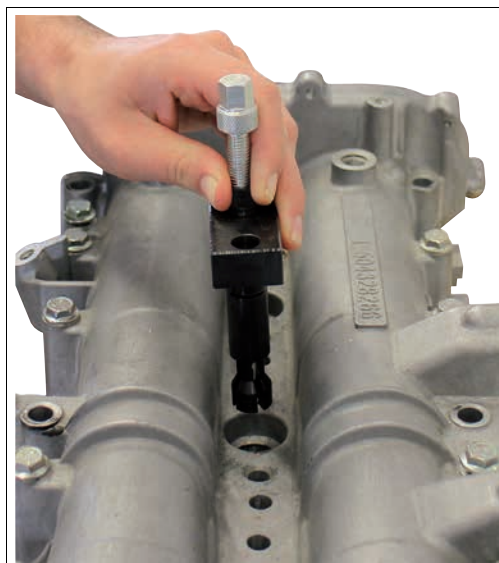
Technical Data:

For clamp screw thread:	M8x1.25
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Scope of Delivery:

KL-1683-30 K Injector Clamp Screw Drill-Out Tool Kit

Part No.	Description	Qty
KL-1683-300	Base Tool	1
KL-1683-3011	Drill Sleeve, Ø 6.8mm	1
KL-1683-3012	Pilot Drill, Ø 6.8mm	1
KL-1683-3021	Drill Sleeve, Ø 10.1mm	1
KL-1683-3022	Re-Bore Drill, Ø 10.1mm	1
KL-1683-3032	Screw Tap, M8	1
KL-1683-3041	Drill Sleeve, Ø 9.1mm	1
KL-1683-3042	Pilot Drill, Ø 9.1mm	1
KL-1683-3052	Screw Tap, M10x1.25	1
KL-1683-3053	Set of Threaded Sleeves, M8	1
KL-0181-53	Stud Remover/Installer, M8	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1683-3090	Plastic Storage Case	1



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KL-1683-300

Base Tool

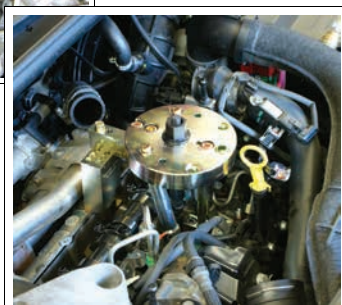
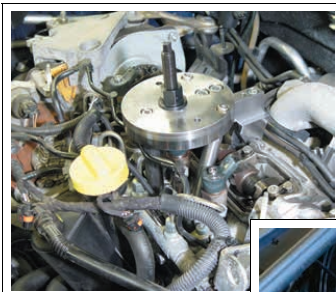
Suitable for use on Citroën and Peugeot 3.0 HDI, as well as Fiat and Iveco 2.3, 3.0 JTD/HPI Common Rail Diesel engines; for example, as fitted to Citroën Relay/Jumper III; Peugeot Boxer III; Fiat Ducato and Iveco Daily. (Engine codes: F1AE0481A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481F, F1CE0481H, F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE 0481D, F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N])

Scope of Delivery:

KL-1683-300 Base Tool

Part No.	Description	Qty
KL-1683-3003	Knurled Screw	1
KL-1683-3001	Setting Gauge for Drill	1
KL-1683-3002	Collet Chuck	1
KL-0117-2105	Set Screw, M5x6	2





KL-1283-13 K

Injector Nozzle Puller Set, Renault/Dacia/Nissan/Opel/Vauxhall/Suzuki

Suitable for 1.5 dCi (engine code: K9K) and 1.9 dCi (engine code: F9Q) Common Rail Diesel engines. As found in Renault, Dacia, Nissan, Opel/Vauxhall, Suzuki, etc.

This puller set enables the professional extraction of very tight-fitting injector nozzles as well as the cleaning of the injector nozzle bore hole and seal seat, without having to remove the cylinder head from the vehicle. The extraction bridge is specifically designed for the above mentioned vehicles in order to ensure safe and accurate support of the tool, even if injectors are very tight-fitting or seized in place. Alternatively, the **KL-0040-170** hydraulic cylinder (17t) in conjunction with a special pull spindle and a hydraulic pump such as **KL-0215-35 M25** can be used instead of the mechanical drive. The injector nozzle puller set **KL-1283-11 K** (1.9 dCi; F9Q) and of injector nozzle puller set **KL-1283-12 K** (1.5 dCi; K9K).

Scope of Delivery: KL-1283-13 K Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1283-115	Extraction Bridge with Spindle, 1.9 dCi	1
KL-1283-112	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-55 B	Compressed Air Adaptor for M10x1 Glow Plug Bore	1
KL-1283-103	Special Socket, Size (waf) 30mm, 1/2" drive	1
KL-1283-1211	Support Plate	1
KL-1283-1212	Support Bolt with Pin	1
KL-1283-1213	Shaped Piece	1
KL-1383-1113	Pull Spindle M14x1.5, 132mm long	1
KL-1283-122	Cleaning Tool for Injector Nozzle Seat	1
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1283-1290	Plastic Storage Case	1

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KL-1283-11 K

Injector Nozzle Puller Set, 1.9 dCi

Suitable for 1.9 dCi engines (engine code: F9Q) e.g. in Renault, Nissan, Opel/Vauxhall, Suzuki, etc.

For the professional removal of very tight-fitting injection nozzles without the need for dismounting the cylinder head.

The **KL-1283-11 K** injector nozzle puller set allows for the precise extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle mounting bore and seat.

It is not necessary to remove the cylinder head from the vehicle.

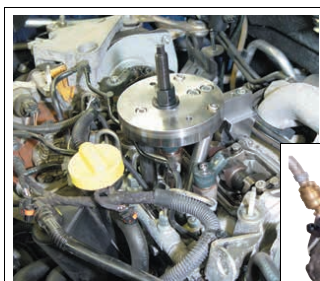
The special shape of the extraction bridge ensures safe and precise support of the tool even if the injector nozzles are extremely stuck/tight-fitting.

Injector nozzle removal:

Unscrew injector nozzle top part with the special socket included in the set. Screw pull spindle into injector nozzle, place pre-assembled base tool onto the cylinder head and screw on shoulder nut. Pull out nozzle by turning the shoulder nut. The supply of compressed air into the combustion chamber prevents impurities from entering the latter.

Scope of Delivery: KL-1283-11 K Injector Nozzle Puller Set, 1.9 dCi

Part No.	Description	Qty
KL-1283-115	Extraction Bridge with Spindle, 1.9 dCi	1
KL-1283-112	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-55 B	Compressed Air adaptor for M10x1 Glow Plug Bore	1
KL-1283-103	Special Socket, Size (waf) 30mm, 1/2" drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1283-1190	Plastic Storage Case	1



KL-1283-110 K

Injector Nozzle Puller Set, Renault 1.9 dCi

Suitable for 1.9 dCi engines (engine code: F9Q) as found in Renault, Nissan, Opel/Vauxhall, Suzuki, etc.

An indispensable tool set for the professional removal of very tight-fitting injector nozzles without the need for dismantling the cylinder head.

The **KL-1283-110 K** injector nozzle puller allows for the precise extraction of very tight-fitting injector nozzles. It is not necessary to remove the cylinder head from the vehicle using this tool.

The extraction bridge is specifically designed for the above mentioned vehicles in order to ensure safe and accurate support of the tool, even if injectors are very tight-fitting or seized in place.

Procedure for injector nozzle removal:

Unscrew injector nozzle top part with the special socket included in the set. Screw pull spindle into injector nozzle, place pre-assembled base tool onto cylinder head and screw on shoulder nut. Pull out nozzle by evenly turning the shoulder nut.

Scope of Delivery:

KL-1283-110 K Injector Nozzle Puller Set, Renault 1.9 dCi

Part No.	Description	Qty
KL-1283-115	Extraction Bridge with Spindle, 1.9 dCi	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-1283-103	Special Socket, Size (waf) 30mm, 1/2" Drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1283-1190	Plastic Storage Case	1



KL-1283-12 K

Injector Nozzle Puller Set, Renault/Dacia/Nissan/Opel/Vauxhall/Suzuki

Suitable for 1.5 dCi (engine code: K9K) Common Rail-Diesel engines.

As found in Renault, Dacia, Nissan, Opel/Vauxhall, Suzuki, etc.

For the professional removal of very tight-fitting injector nozzles without the need for dismantling the cylinder head.

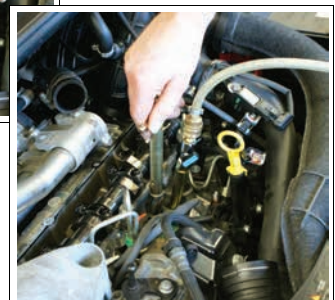
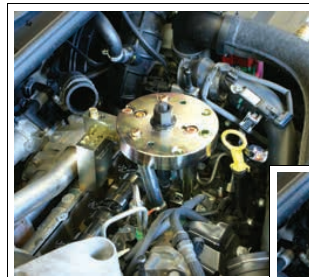
The **KL-1283-12 K** injector nozzle puller set allows for the precise extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle mounting bore and seal seat.

Removal of the cylinder head from the vehicle is not necessary. The special design of the extraction bridge ensures safe and accurate support, even if the injector nozzles are extremely tight-fitting or seized in place.

Scope of Delivery:

KL-1283-12 K Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1283-125	Extraction Bridge with Spindle, 1.5 dCi	1
KL-1283-122	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-55 B	Compressed Air Adaptor for M10x1 Glow Plug Bore	1
KL-0014-0030	Molybdenum Disulphide Paste, 50 g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1283-1290	Plastic Storage Case	1





KL-0186-14 K

(German Utility Model)

Injector Nozzle Puller Set (Universal), with Accessories

For description, please refer to Chapter 6.4-01.

KL-0186-220

Upgrade Kit for KL-0186-14 K

Suitable for the Opel/Vauxhall, Saab and Fiat 1.3*, 1.6, 1.7 and 2.0 Common Rail Diesel engines, as found in Opel/Vauxhall (1.3*, 1.6, 1.7 and 2.0 engines) Agila, Insignia, Combo, Corsa C, Corsa D, Meriva A, Mokka, Astra H, Astra J, Meriva B, Zafira A, Zafira B, Tigra B; Fiat (1.3* and 1.6 engines) Punto (188), Idea (135), Doblo (223), Linea (110), Bravo (198), Doblo (263); Saab (2.0 Motor) 9-5 (9650).

The KL-0186-220 tool kit is designed to upgrade the KL-0186-14 K injector nozzle puller so that it also covers the above mentioned engines.

Scope of Delivery:

KL-0186-220 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1232	Set of Support Bolts, M8, 120mm	1
KL-0186-1238	Set of Support Bolts, M6, 145mm	1
KL-0186-1239	Set of Support Bolts, M7, 132.5mm	1
KL-0186-1261	Set of Spacer Nuts, 10mm	1
KL-1383-1222 A	Special Socket, Size (waf) 29mm	1
KL-0186-2201	Special Insert	1
KL-0186-1611	Pull Spindle, M20x1mm, 145mm long	1

(Engine codes: Opel/Vauxhall: Z13DT*, Z13DTH*, Z13DTC*, Z13DTJ*, A13DTE, A16FDH, A16FDL, A17DT, A17DTC, A17DTJ, A17DTR, A20DT, A20DTC, A20DTH, A20DTJ, A20DTR; Fiat: 188A9.000*, 198A3.000; Saab: A20DTH, A20DTR)

*Note: With 1.3 litre engines, always two injector nozzles need to be extracted simultaneously. (see KL-1683-10 K)

KL-0186-210

Upgrade Kit for KL-0186-14 K

Renault / Nissan / Opel/Vauxhall 2.0, 2.2, 2.5, 3.0 dCi

Applicable to the following Diesel engines: Renault / Nissan / Opel/Vauxhall 2.0 dCi (engine code M9R), 2.2 dCi (engine code G9T), 2.5 dCi (engine code G9U) and 3.0 dCi (engine code P9X*, ZD3).

The KL-0186-210 tool kit is designed to upgrade the KL-0186-14 K injector nozzle puller set so that it also covers the above mentioned engines.

Scope of Delivery:

KL-0186-210 Upgrade Kit for KL-0186-14 K (to form KL-0186-21 K)

Part No.	Description	Qty
KL-0186-1234	Set of Support Bolts, M6, 113.5mm and 153.5mm	1
KL-0186-1236	Set of Support Bolts, M6	1
KL-0186-1235-2	Set Screw, M6x25mm	4
KL-0186-1255	Spacer Nut, M8	4
KL-0583-1032	Pull Spindle, M14x1.5, 200mm	1
KL-0186-1611 H	Pull Spindle, M20x1, 250mm	1

*Note: V-engines might require the removal of the engine due to lack of space.

KL-0186-190

Upgrade Kit for KL-0186-14 K, Renault/Nissan/Opel/Vauxhall

Applicable to Renault, Nissan, Opel/Vauxhall 3.0 Common Rail Diesel engines (engine code: ZD3); e.g. fitted to Renault: Master (II and III), Master Maxi; Nissan: Cabstar (III), Interstar, Patrol (III), Patrol GR (II), Terano and Opel/Vauxhall: Movano (II).

As well as for Renault 3.0 V6 Common Rail Diesel engines (engine code P9X*) e.g. fitted to Renault: Espace (IV), Vel Satis.

***Note:** V-engines might require the removal of the engine due to space constraints.

The **KL-0186-190** tool kit is designed to upgrade the **KL-0186-14 K** injector nozzle puller set so that it also covers the above mentioned engines.

Scope of Delivery:

KL-0186-190 Upgrade Kit for KL-0186-14 K (to form KL-0186-19 K)

Part No.	Description	Qty
KL-0186-1238	Set of Support Bolts, M6	1
KL-0186-1255	Spacer Nut, M8	4
KL-0186-1611 H	Pull Spindle, M20x1, 250mm	1



KL-0186-200

Upgrade Kit for KL-0186-14 K, Renault/Nissan/Opel/Vauxhall

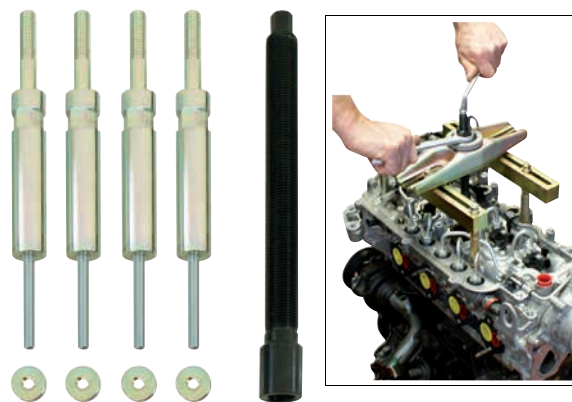
Applicable to Renault, Nissan and Opel/Vauxhall 2.0 dci Diesel engines (engine code M9R). Injector nozzles with fuel line connection at the top.

The **KL-0186-200** tool kit is designed to upgrade the **KL-0186-14 K** injector nozzle puller set so that it also covers the above mentioned engines.

Scope of Delivery:

KL-0186-200 Upgrade Kit for KL-0186-14 K (to form KL-0186-20 K)

Part No.	Description	Qty
KL-0186-1236	Set of Support Bolts, M6	1
KL-0583-1032	Pull Spindle, 200mm long	1



KL-0186-202

Upgrade Kit for KL-0186-14 K (in conjunction with KL-0186-200)

Suitable for Renault, Nissan and Opel/Vauxhall 2.0 CDTi (M9R) Common Rail Diesel engines as found, e.g., in: Renault Espace/Grand Espace IV, Koleos, Laguna II, Laguna III, Latitude, Megane II, Megane III, Scenic/Grand Scenic II, Scenic/Grand Scenic III, Trafic II, Vel Satis; Nissan Primastar, Qashqai I, Qashqai II, X-Trail and Opel/Vauxhall Vivaro-A.

The **KL-0186-202** upgrade kit is used in conjunction with the **KL-0186-14 K** injector nozzle puller set as well as upgrade kit **KL-0186-200**, thus allowing the removal of very tight-fitting/stuck injectors to be performed in situ on the vehicle without the need for removing the cylinder head. The injector can be extracted in one piece quickly and with ease using the special puller claw and the **KL-0583-1032** pull spindle (supplied with **KL-0186-200**). The injector nozzle needs to be opened for this.

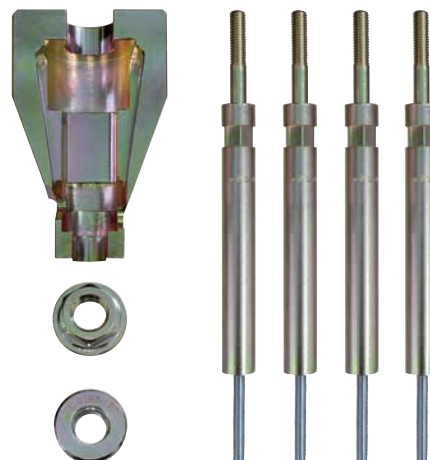
Procedure:

Screw pull spindle onto injector nozzle, mount special puller claw. Unscrew valve cover screws (4 screws) and replace with special support bolts. Mount extraction bridge and screw on shoulder nut. Extract injector nozzle by turning shoulder nut.

KL-0186-202 H Upgrade Kit with Hydraulic Cylinder (17t, short design) for KL-0186-14 K, in conjunction with KL-0186-200.

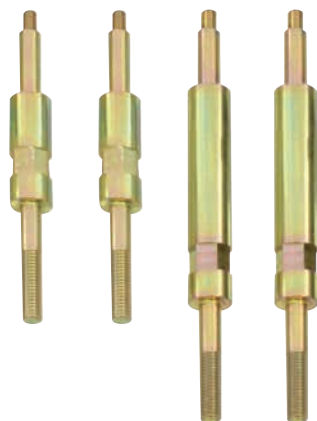
Like the **KL-0186-202**, however, supplied with:

KL-0040-170 A Hydraulic Cylinder, 17t (short design), with Shoulder Nut M16x1.5 and Safety Belt and **KL-0583-1032 H** Pull Spindle, M14x1.5x315mm.



Scope of Delivery: KL-0186-202 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1236 L	Set of Support Bolts, M6, 170mm	1
KL-0186-2021	Puller Claw	1
KL-0186-1323	Hex Nut	1
KL-0186-1322	Knurled Nut	1



KL-0186-1234

Set of Support Bolts, M6 (113.5mm and 153.5mm)

Applicable to Renault, Nissan, Opel/Vauxhall 2.2 and 2.5 dCi Diesel engines (engine code: G9T and G9U) e.g. Renault: Avantime, Espace III, Espace IV, Laguna II, Master II, Master III, Traffic II, Vel Satis; Nissan: Interstar, Primastar and Vauxhall/Opel Movano, Vivaro.

The **KL-0186-1234** support bolt set upgrades the injector nozzle puller set **KL-0186-14 K** by making it also suitable for use on the above mentioned engines.

Scope of Delivery:

KL-0186-1234 Set of Support Bolts M6 (113.5mm and 153.5mm)

Part No.	Description	Qty
KL-0186-1234-1	Support Bolt, 113.5mm	2
KL-0186-1234-2	Support Bolt, 153.5mm	2



KL-1283-112

Cleaning Tool for Injector Nozzle Seat, Renault/Nissan/Opel/Vauxhall/Suzuki/Mitsubishi

Suitable for the Common Rail Diesel engines F9Q on Renault, Nissan, Opel/Vauxhall, Suzuki, Mitsubishi 1.9 dTi, 1.9 dCi, 1.9 CDTi, 1.9 Di, 1.9 DDis, 1.9 Di-D.

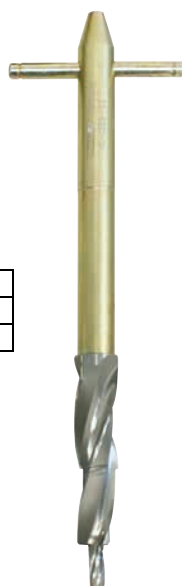
In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.

Technical Data:

Drive:	T-handle
Length:	245mm
Cleaning tool Ø:	7.5/17.4/19mm

6



KL-1283-122

Cleaning Tool for Injector Nozzle Seat, Renault/Suzuki/Nissan/Dacia

Suitable for the Common Rail Diesel engines K9K on Renault, Suzuki, Nissan, Dacia 1.5 dCi, 1.5 DDis.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.

Technical Data:

Drive:	T-handle
Length:	265mm
Cleaning tool Ø:	7.5/17/20.1mm

KL-0186-14 K (German Utility Model)

Injector Nozzle Puller Set (Universal), with Accessories

For description, please refer to Chapter 6.4-01.



KL-0186-1610 B

Upgrade Kit for KL-0186-14 K

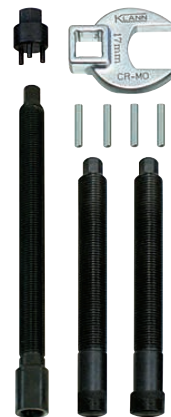
Suitable for the Toyota, Lexus, Mini 1.4, 2.0, 2.2, 2.5 and 3.0 Common Rail Diesel engines as found in the following vehicles: Lexus IS; Mini One (R50); Toyota Auris, Avensis, Corolla Verso/CombiVan, Dyna, Hiace, Hiace/PowerVan, Hilux, IQ, Landcruiser/Prado, RAV4, Verso, Verso/Sportsvan, Yaris. (Engine codes: 1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND])

Used in conjunction with the **KL-0186-14 K** universal injector nozzle puller set with accessories, the **KL-0186-1610 B** upgrade kit enables the removal of very tight-fitting/seized injector nozzles to be performed directly on the vehicle without having to dismount the cylinder head.

The special extraction bridge and the pull spindle allow the user to extract the injector nozzle quickly and easily. The injector nozzle needs to be opened for this.

Procedure:

Unscrew injector top part, disassemble remains of injector, screw in pull spindle, unscrew valve cover screws (4 screws), mount extraction bridge, screw on shoulder nut. Extract injector by turning the shoulder nut.



Technical Data:

Connection thread of pull spindle KL-0583-1032:	M14x1.5
Connection thread of pull spindle KL-0186-1612:	M16x1
Connection thread of pull spindle KL-0186-1611:	M20x1

Scope of Delivery:

KL-0186-1610 B Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0583-1032	Pull Spindle, M14x1.5, 200mm long	1
KL-0186-1611	Pull Spindle, M20x1, 145mm long	1
KL-0186-1612	Pull Spindle, M16x1, 145mm long	1
KL-0186-2201	Special Insert	1
KL-4417-17	Crowfoot Wrench, Size (waf) 17mm	1
KL-0186-1235-2	Set Screw, M6x25mm	4

KL-0186-1611 A

Pull Spindle, M20x1, with 2 Nuts M25, 145mm long



Suitable for injector nozzles equipped with an M20x1 internal thread, such as DENSO injectors. Installed in Renault Relay/Jumper III, Jumper; Fiat Ducato (250), Linea (110), Bravo (198), Doblo (263); Ford Transit; Isuzu D-Max / Rodeo, N-Series; Mazda 3, 5, 6, MPV; Mitsubishi L200, Pajero / Montero; Nissan X-Trail, Promera, Almera, Primera, Navara, Pathfinder; Opel/Vauxhall Astra H, Astra J, Combo, Corsa D, Meriva B, Insignia, Zafira B, Signum, Vectra C; Peugeot Boxer III; Renault Vel Satis, Espace; Saab 9-5; Toyota Avensis, Corolla Verso, RAV 4 III, Land Cruiser 90, Hiace IV, Hilux II, Hilux III, Dyna, Previa 1.6, 1.7, 2.2, 2.5 and 3.0 Common Rail Diesel engines.

(Engine codes: 198A3.000, 1KD-FTV, 2AD-FT, 2KD-FTV, 4D56, 4HM, 4HU, 4HV, 4JJ1, 4JK1, 4M41, 6DE1, A16FDH, A16FDL, A17DT, A17DTC, A17DTJ, A17DTR, CD-FTV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FA, P8FB, P9X, PGFA, PGFB, QVFA, QWFA, RF5C, RF-DI, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA, YD22, YD25.)

The pull spindle upgrades the universal injector nozzle puller set **KL-0186-14 K** (in conjunction with the respective vehicle-specific upgrade kit **KL-0186-1610 A** or **KL-0186-220**) by making it suitable for use also on very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.

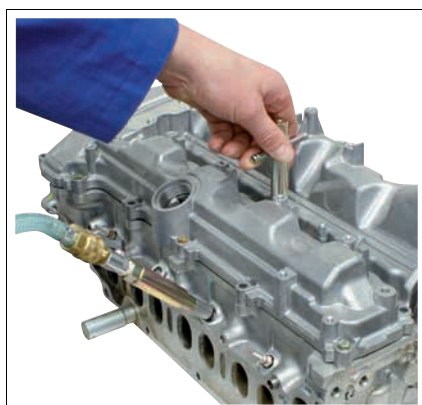
Technical Data:

Connection thread:	M20x1
Union nut (KL-0186-1611-2):	M25x0.5
Union nut (KL-0186-1611-3):	M25x0.75
Length:	145mm

Scope of Delivery:

KL-0186-1611 A Pull Spindle M20x1, with 2 Nuts M25,

Part No.	Description	Qty
KL-0186-1611-1	Pull Spindle, M20x1, 145mm long	1
KL-0186-1611-2	Union Nut, M25x0.5mm	1
KL-0186-1611-3	Union Nut, M25x0.75mm	1



KL-0186-163 K

Injector Nozzle Seat Cleaning Tool, with Compressed Air Adaptor, Toyota

Suitable for the Toyota, Lexus, Mini 1.4, 2.0, 2.2, 2.5 and 3.0 Common-Rail Diesel engines as found in the following vehicles: Lexus IS; Mini One (R50); Toyota Auris, Avensis, Corolla Verso/CombiVan, Dyna, Hiace, Hiace/PowerVan, Hilux, IQ, Landcruiser/Prado, RAV4, Verso, Verso/Sportsvan, Yaris.

(Engine codes: 1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND])

The special design of the **KL-0369-20 A** cleaning tool allows the injector mounting bore, the nozzle seal seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation.

With the aid of the **KL-0186-1631** compressed air adaptor, which is to be screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

Scope of Delivery:

KL-0186-163 K Injector Nozzle Seat Cleaning Tool, with Compressed Air Adaptor

Part No.	Description	Qty
KL-0186-1631	Compressed Air Adaptor for Glow Plug Bore, M10x1.25	1
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-1329	Plastic Storage Case	1

6



KL-0186-70 K

Fuel Injector Sleeve Removal Tool

Universally suitable for Diesel engines having an injector nozzle seal seat Ø of 15mm; as fitted to: Alfa Romeo, BMW, Chevrolet, Chrysler, Fiat, Ford, Hyundai, Iveco, Mazda, Mercedes, Opel/Vauxhall, PSA, Renault, Toyota and Volvo.

The **KL-0186-70 K** fuel injector sleeve removal tool is designed to be used in conjunction with an injector nozzle puller set of the **KL-0186-...**, **KL-0369-...**, **KL-0583-...**, **KL-1283-...**, **KL-1383-...** or **KL-1683-...** Series and the **KL-0040-170 A** hydraulic cylinder (with safety belt), thus allowing for the precise removal of the injector sleeve if injectors are broken off. No need for removing the cylinder head. This is an essential tool if a seized injector nozzle breaks during removal and the injector sleeve remains stuck in the cylinder head. The use of the special pull spindle **KL-0186-7051 H** (included in the kit), allows the user to extract the complete injector sleeve quickly and with ease.

Procedure:

Disassemble the remains of the broken-off injector, cut a thread into injector sleeve, screw in pull spindle, pull out injector sleeve with the aid of the corresponding injector nozzle puller set.

Scope of Delivery:

KL-0186-70 K Fuel Injector Sleeve Removal Tool

Part No.	Description	Qty
KL-0186-701	Nozzle Needle Removal Tool	1
KL-0186-702	Nozzle Needle Removal Tool	1
KL-0186-703	Nozzle Needle Removal Tool	1
KL-0186-704	Screw Tap, 7/16-20UNC, with Holder	1
KL-0186-501	Extension	1
KL-0186-7051 H	Pull Spindle, 7/16-20UNF	1
KL-0186-7043	Rubber-Coated Annular Magnet	2
KL-0126-221	Flexible Magnetic Lifter	1
KL-0186-7090	Plastic Storage Case	1

Technical Data:

Maximum load capacity of the pull spindle:	5t
Nozzle needle removal tool (max. torque):	15 Nm
Nozzle needle removal tool (length):	150 mm
Screw tap:	7/16-20 UNF
Screw tap length:	240mm
Pull spindle (connection thread for extraction bridge):	M16x1.5
Pull spindle (connection thread for injector nozzle):	7/16-20 UNF
Pull spindle length:	480mm

KL-0186-221 K (German Utility Model) Injector Seat Cleaning Tool, with Compressed Air Adaptors

Compressed air adaptor M10x1 – universally suitable for M10x1 glow plug bores as found on: BMW, Mercedes, Chrysler, Opel/Vauxhall, Nissan, Renault etc.

Compressed air adaptor M8x1 – universally suitable for M8x1 glow plug bores as found on: Citroën, Fiat, Ford, Lancia, Mercedes, Opel/Vauxhall, Suzuki, Volvo etc.

Cleaning Tool - universally suitable for engines having an injector nozzle seat Ø of 17mm such as:

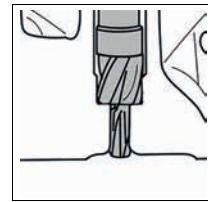
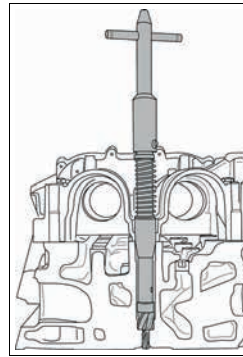
- Mercedes: OM611, OM612, OM613, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM668
- Peugeot: DT17, DT20, DV4, DV6, DW10, DW12
- Citroën: DV4
- Renault: F9Q, G9T, G9U, K9K
- BMW: M47, M47TU, M57, M57TU
- Opel/Vauxhall: Z13DT
- Ford: G8DA, G8DB, HHDA, HHJA, HHJB
- Volvo: D4164T
- Mazda: Y6
- Toyota: 2.2 (2AD-FTV) and 3.0 (1KD-FTV)
- Land Rover: Freelander TD4 (M47D)

The tool allows for the quick and professional cleaning of injector nozzle seats. This is an important operation to be carried out before installing/re-installing an injector in order to avoid leakage between cylinder head and injector nozzle. The spring-loaded centring cone sleeve ensures that the cleaning tool is accurately guided in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble. With the aid of the **KL-0369 55 B** or the **KL-1383-118** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

Scope of Delivery:

KL-0186-221 K Injector Seat Cleaning Tool, with Compressed Air Adaptors

Part No.	Description	Qty
KL-0186-50	Cleaning Tool (universal) for Injector Nozzle Seat	1
KL-0369-55 B	Compressed Air Adaptor for 10x1 Glow Plug Bore	1
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore	1
KL-1383-1329	Plastic Storage Case	1



Technical Data:

Drive:	T-handle
Length:	238mm
Cleaning tool Ø:	7.3/17mm
Connection thread:	M10x1
Length:	178mm
Tube Ø:	15x110mm
Connection thread:	M8x1
Length:	178mm
Tube Ø:	12x80mm

Accessory: Extension **KL-0186-501** for very deep-seated injector nozzles.

KL-0186-50 B (German Utility Model) Cleaning Tool (Universal) for Injector Nozzle Seat

Universally suitable for the VW-Audi, Seat, Škoda, Citroën, BMW, Ford, Land Rover, Mazda, Mercedes, Opel/Vauxhall, Peugeot, Renault, Toyota, Volvo Diesel engines having an injector nozzle seat Ø of 17mm.

(Engine codes: VW-Audi/Seat/Škoda: AXD, BAY, BLE, BNZ, BNM, BNV, BKC, BWF, BXE, BLS; Mercedes: OM611, OM612, OM613, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM668; Peugeot: DT17, DT20, DV4, DV6, DW10, DW12; Citroën: DV4; Renault: F9Q, G9T, G9U, K9K; BMW: M47, M47TU, M57, M57TU; Opel/Vauxhall: Z13DT; Ford: G8DA, G8DB, HHDA, HHJA, HHJB; Volvo: D4164T; Mazda: Y6; Toyota: 1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND]; Land Rover: TD4, M47D)

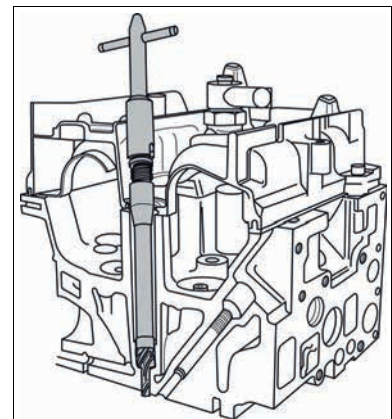
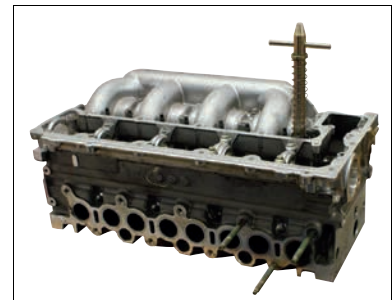
The tool allows for the quick and professional cleaning of injector nozzle seats. Before installing/re-installing an injector nozzle, it is absolutely necessary to clean the seal seat in order to avoid leakage between the cylinder head and injector nozzle. The spring-loaded centring cone sleeve ensures that the cleaning tool is accurately guided in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble.

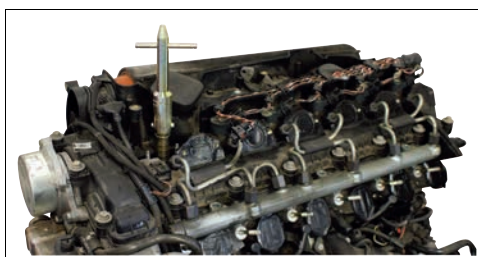
Technical Data:

Drive:	T-Handle
Length:	238mm
Cleaning tool Ø:	7.3/17mm

Accessory:

The drive extension **KL-0186-501** for extremely deep-seated injector nozzles is available as accessory.





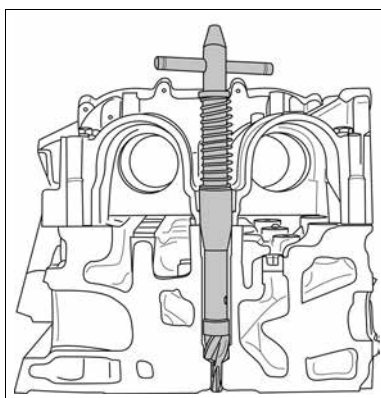
KL-0186-501

Extension (150mm)

The **KL-0186-501** extension is specially designed for very deep-seated injector nozzles. It is used in conjunction with the universal cleaning tool **KL-0186-50** or the **KL-0186-511**.

Technical Data:

Drive:	T-Handle
Length:	150mm



KL-0186-52

[German Utility Model]

Cleaning Tool for Injector Nozzle Seat, VW

Universally suitable for the VW-Audi, Seat, Škoda 2.0 TDI Pumpe-Düse (unit injector) engines having a conical injector nozzle seat Ø of 17mm, as found on VW: Caddy III, Eos, Golf Plus, Golf V, Golf VI Variant, Jetta, Passat, Passat Variant, Touran; Audi: A3; Seat: Altea, Leon, Toledo III; Škoda: Octavia, Superb. (Engine code: BMM)

The cleaning tool enables the quick and professional cleaning of conical injector nozzle seats.

This is an indispensable working step before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle.

The spring-loaded centring cone sleeve ensures accurate guiding of the cleaning tool in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble.

Technical Data:

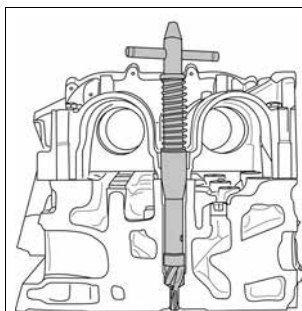
Drive:	T-Handle
Length:	238mm
Cleaning tool Ø:	7.5/17mm

6



Technical Data:

Drive:	T-Handle
Length:	238mm
Cleaning tool Ø:	7.5/17mm



KL-0186-53 K

[German Utility Model]

Cleaning Tool Set (Universal)

for Injector Nozzle Seat

Universally suitable for the VW-Audi, Seat, Škoda, Citroën, BMW, Ford, Land Rover, Mazda, Mercedes, Opel/Vauxhall, Peugeot, Renault, Toyota, Volvo Diesel engines having a plane injector nozzle seat Ø of 17mm; also suitable for use on the VW-Audi, Seat, Škoda 2.0 TDI Pumpe-Düse (unit injector) engines having a conical injector nozzle seat Ø of 17mm.

(Engine codes: VW-Audi/Seat/Škoda: AXD, BAY, BLE, BNZ, BNM, BMM, BNV, BKC, BWF, BXE, BLS; Mercedes: OM611, OM612, OM613, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM668; Peugeot: DT17, DT20, DV4, DV6, DW10, DW12; Citroën: DV4; Renault: F9Q, G9T, G9U, K9K; BMW: M47, M47TU, M57, M57TU; Opel/Vauxhall: Z13DT; Ford: G8DA, G8DB, HHDA, HHJA, HHJB; Volvo: D4164T; Mazda: Y6; Toyota: 2AD-FTV, 1KD-FTV; Land Rover: TD4, M47D)

The cleaning tool set enables the quick and professional cleaning of both plane and conical injector nozzle seats. Proper and thorough cleaning is essential before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle. The spring-loaded centring cone sleeve ensures accurate guidance of the cleaning tool in the injector nozzle bore, thus enabling both the plane and the conical seal seat to be cleaned properly and without any trouble.

Note: The cleaning tool set includes the **KL-0186-52** cleaning tool.

Scope of Delivery: KL-0186-53 K Cleaning Tool Set (Universal)

Part No.	Description	Qty
KL-0186-50 B	Cleaning Tool for Injector Nozzle Seat	1
KL-0186-5202	Cleaning Head, Ø 7.5/17 mm	1
KL-1383-1329	Plastic Storage Case	1

KL-0583-102

Cleaning Tool for Injector Nozzle Seat, BMW

Suitable for BMW Common-Rail Diesel engines M47TU, M57 and M57TU.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. Indispensable procedure before re-installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.



Technical Data:

Drive:	T-handle
Length:	296mm
Cleaning tool Ø:	7.5/17/23.7mm

KL-0583-1031 A

Cleaning Tool for Injector Nozzle Seat, BMW

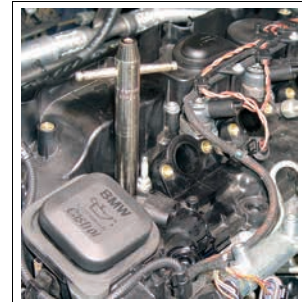
Suitable for the BMW M47 Common Rail Diesel engines.

In a single operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. This is important before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle. The **KL-0186-501** extension is specifically designed for very deep-seated injector nozzles.

Note: When using the **KL-0186-501** extension, the T-handle of the extension and the T-handle of cleaning tool **KL-0186-104** need to be interchanged.

Scope of Delivery: KL-0583-1031 A Cleaning Tool for Injector Nozzle Seat, BMW

Part No.	Description	Qty
KL-1383-104	Cleaning Tool for Injector Nozzle Seat	1
KL-0186-501	Extension	1



Technical Data:

Drive:	T-handle
Length of cleaning tool:	290mm
Length of cleaning tool with extension:	370mm
Cleaning tool Ø:	7.5/17mm

KL-0369-20 A

Cleaning Tool for Injector Nozzle Seat, Common Rail Diesel Engines

Applicable to Common Rail Diesel engines:

Mercedes OM611, OM612, OM613, OM639, OM640, OM642, OM646, OM647, OM648, OM651, OM668, Smart R660

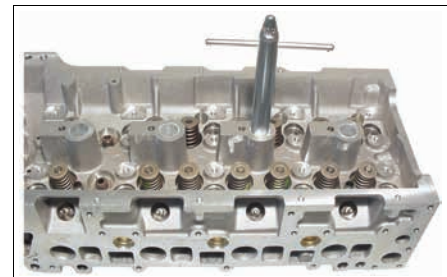
PSA 2.7 HDI / engine: DT17 and 3.0 HDI engine: DT20

Chrysler 2.5 crd / engine: OM664

Toyota 3.0 D-4D / engine: 1 KD-FTV; Toyota 2.2 D-4D / engine: 2 AD-FHV, 2 AD-FTV

Lexus 2.2 Diesel / engine: 2 AD-FHV

In a single operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seat, and the small aperture leading to the combustion chamber. Important procedure before reinstalling an injector nozzle in order to prevent leakage between the cylinder head and the injector.



Technical Data:

Drive:	T-Handle
Length:	261mm
Cleaning tool Ø:	7.5/17/19.1mm

KL-0186-51

(German Utility Model)

Cleaning Tool Set for Injector Nozzle Seat

Suitable for use on the Fiat 2.3 JTD, 2.8 JTD and 3.0 JTD Diesel engines with conical injector nozzle seat.

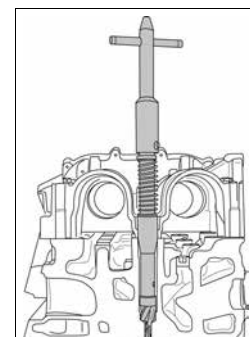
The cleaning tool enables the quick and professional cleaning of conical injector nozzle seats.

Indispensable working step before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle.

The spring-loaded centring cone sleeve ensures accurate guidance of the cleaning tool in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble.

Scope of Delivery: KL-0186-51 Cleaning Tool Set for Injector Nozzle Seat

Part No.	Description	Qty
KL-0186-511	Cleaning Tool for Injector Nozzle Seat	1
KL-0186-501	Extension	1



Technical Data:

Drive:	T-Handle
Length:	238mm
Cleaning tool Ø:	7.5/17mm



Technical Data:

Drive:	T-handle
Length:	261mm
Cleaning tool Ø:	7.5/17/17.6mm

KL-1683-103

Cleaning Tool for Injector Nozzle Seat

Applicable to Common Rail Diesel engines on Opel/Vauxhall, Fiat, Lancia, Suzuki 1.3 JTD, 1.3 CDTi, 1.3 JTD, 1.3 DDIs / engine: Z13DT, 188A9.000.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injection nozzle to avoid leakage between cylinder head and injector nozzle.



Technical Data:

Drive:	T-handle
Length:	245mm
Cleaning tool Ø:	7.5/17.4/19mm

KL-1283-112

Cleaning Tool for Injector Nozzle Seat, Renault/Nissan/Opel/Vauxhall/Suzuki/Mitsubishi

Suitable for the Common Rail Diesel engines F9Q on Renault, Nissan, Opel/Vauxhall, Suzuki, Mitsubishi 1.9 dTi, 1.9 dCi, 1.9 CDTi, 1.9 Di, 1.9 DDIs, 1.9 Di-D.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. Indispensable procedure before re-installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.



Technical Data:

Drive:	T-handle
Length:	265mm
Cleaning tool Ø:	7.5/17/20.1mm

KL-1283-122

Cleaning Tool for Injector Nozzle Seat, Renault/Suzuki/Nissan/Dacia

Suitable for the Common Rail Diesel engines K9K on Renault, Suzuki, Nissan, Dacia 1.5 dCi, 1.5 DDIs.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. Indispensable procedure before re-installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.

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Technical Data:

Drive:	T-Handle
Length:	261mm
Cleaning tool Ø:	7.5/17mm

KL-1383-104

Cleaning Tool for Injector Nozzle Seat, Peugeot/Citroën/Fiat/Lancia/Suzuki

Applicable to 2.0 HDI, 2.0 JTD Common Rail Diesel engines on Peugeot, Citroën, Fiat, Lancia, Suzuki; engine code: DW10; Mercedes, engine code: OM646 EVO; Renault, Nissan, Vauxhall/Opel 2.2 DTI, CDTI, CDI, engine code: G9T; Renault, Nissan, Vauxhall/Opel 2.5 DTI, CDTI, CDI, engine code: G9U.

The special design of this cleaning tool enables the injection nozzle bore, the seal seat and the injector channel to be cleaned in one single operation.

Important! Before any re-installation/installation of an injector, it is essential to clean the seal seat in the cylinder head from deposits such as carbon deposits in order to prevent leakage between cylinder head and injector.



Technical Data:

Drive:	T-handle
Length:	275mm
Cleaning tool Ø:	7.5/17/19.6mm

KL-1383-119

Cleaning Tool for Injector Nozzle Seat, Peugeot/Citroën/Fiat/Lancia

Applicable to the 2.2 HDI, 2.2 JTD Common Rail Diesel engines DW12 on Peugeot, Citroën, Fiat, Lancia.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. Indispensable procedure before re-installing/installing an injector nozzle to avoid leakage between cylinder head and injector nozzle.

KL-1383-1311

Cleaning Tool for Injector Nozzle Seat, PSA 1.6

Applicable to 1.6 PSA Common Rail Diesel engines on:

- Fiat 1.6 HDI; engine code: DV6, 9HX, 9HY, 9HZ
- Ford 1.6 TDCi; engine code: G8DA, G8DB, HHDA, HHJA, HHJB
- Volvo 1.6 D; engine code: D4164T
- Mazda 1.6 D; engine code: Y6

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injector nozzle to avoid leakage between cylinder head and injector nozzle.



Technical Data:

Drive:	T-handle
Length:	295mm
Cleaning tool-Ø:	7.5/17/17.6/18.7mm

KL-1383-118

Compressed Air Adaptor for M8x1 Glow Plug Bore

Universally applicable to Citroën, Fiat, Ford, Lancia, Mercedes, Opel/Vauxhall, Suzuki, Volvo etc., (Engine Codes: 169 A1.000, 188 A8.000, 188 A9.000, 199 A2.000, 199 A3.000, 199 A9.000, 199 B1.000, 199 B4.000, 223 A9.000, 263 A2.000, A13DTC, D13A, DT17, DT20, FD4, OM639, OM640, OM642, OM651, Y13DT, Z13DT, Z13DTH, Z13DTJ)

With the aid of the **KL-1383-118** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.



Technical Data:

Connection thread:	M8x1
Length:	178mm
Tube:	Ø 12x80mm

KL-0369-55 B

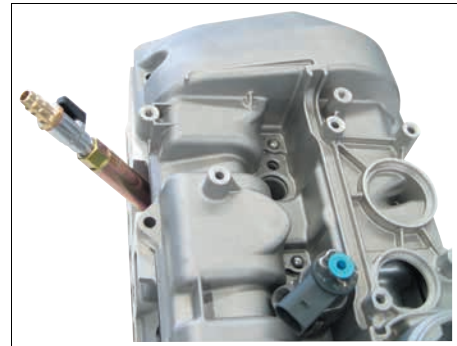
Compressed Air Adaptor for Glow Plug Bore

Universally applicable to, e.g., BMW, Mercedes, Chrysler, Opel/Vauxhall, Nissan, Renault etc.

With the aid of the **KL-0369-55 B** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

Technical Data:

Thread:	M10x1
Length:	178mm
Pipe Ø:	15x110mm



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KL-0186-1631

Compressed Air Adaptor for M10x1.25 Glow Plug Bore, Toyota/Lexus

Universally applicable to Diesel engines e.g. Opel/Vauxhall (A17DTJ, A17DTC, A17DTE, A17DTS); Toyota and Lexus (1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND]) etc.

With the aid of the **KL-0186-1631** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.



Technical Data:

Connection Thread:	M10x1.25
Length:	207mm
Tube Ø:	15mm



Scope of Delivery:

KL-0132-56 KA Glow Plug Tool Set (Universal)

Part No.	Description	Qty
KL-0132-56 EA	Glow Plug Tool Set (Universal), in a Foam Insert	1
KL-0132-5691	Plastic Storage Case	1

KL-0132-56 KA

Glow Plug Tool Set (Universal)

Universally applicable to Diesel engines having either an M8x1 or M10x1 glow plug retaining thread. The ideal tool set for Mercedes (OM639, OM640, OM642, OM651) // Fiat, Citroën, Peugeot, IVECO 2.3 JTD/HDI, 3.0 JTD/HDI, as well as Fiat, Alfa, Lancia 1.3 JTD Common Rail Diesel engines. (F1A, F1C, F30 DT, 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000) and VW-Audi 2.5, 2.7, 3.0 V6 TDI engines.

The universal **KL-0132-56 KA** glow plug tool set enables the accurate removal, respectively drilling out, of damaged glow plugs and re-tapping the original M8x1 and M10x1 thread. It also allows the user to repair a damaged glow plug retaining thread by drilling it up to M10x1 or M12x1 respectively. Then, the new glow plug along with a threaded sleeve can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter. Glow plugs or glow tubes/elements seized in the glow plug channel can be extracted quickly and easily with the aid of the puller that comes with the tool set.

Scope of Delivery: **KL-0132-56 EA Glow Plug Tool Set (Universal), in a Foam Insert**

Part No.	Description	Qty
KL-0369-201 A	Glow Plug Removal Tool, Mercedes	1
KL-0369-202	Glow Plug Removal Tool, M8x1	1
KL-0132-5502	Pilot Drill, Ø 7.1mm for M8x1	1
KL-0132-5503	Screw Tap, M8x1	1
KL-0283-7003	Guide Sleeve, Ø 13mm	1
KL-0132-5201	Guide Sleeve for Mercedes	1
KL-0132-5504	Guide Sleeve for Fiat JTD	1
KL-0132-5505	Guide Sleeve for Mercedes/Fiat	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-1383-2042	Set of Threaded Sleeves, M10x1, 26mm long (10-piece)	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0283-7050	Puller (Base Tool)	1
KL-1383-2052	Puller Bolt, 1/4"-20 UNC, 185mm long	1
KL-1383-2242	Puller Bolt No. 12-24 UNC, 165mm long	1
KL-0369-2510 A	Holder, M8x1, with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm	1
KL-0369-2522 A	Reamer, Ø 5.2mm	1
KL-0369-2610 A	Holder, M9x1, with Set Screw	1
KL-0369-2710 A	Holder, M10x1, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1
KL-0369-2740 A	Holder, M10x1 with Set Screw	1
KL-0369-2810 A	Holder, M10x1.25, with Set Screw	1
KL-0369-2910 A	Holder, M12x1.25, with Set Screw	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1683-2061	Pilot Drill, Ø 9.1mm for M10x1	1
KL-1683-2062	Screw Tap, M10x1	1
KL-4007-2510	Adaptor for Power Drill, 3/8"	1
KL-1683-2063	Set of Threaded Sleeves, M8x1, 13mm long	1
KL-0369-306	Tool Holder, with Square Socket 2.4-5.5mm	1
KL-0369-9001	Glow Plug Socket with Joint, Size (waf) 8mm, long	1
KL-0369-9002	Glow Plug Socket with Joint, Size (waf) 9mm, long	1
KL-0369-9003	Glow Plug Socket with Joint, Size (waf) 10mm, long	1
KL-0369-9004	Glow Plug Socket with Joint, Size (waf) 12mm, long	1
KL-0369-9005	Glow Plug Socket with Joint, Size (waf) 14mm, long	1
KL-0369-9006	Glow Plug Socket with Joint, Size (waf) 16mm, long	1
KL-1383-2241	Screw Tap No. 12-24 UNC	1
KL-0369-3056	Screw Tap, 1/4"-20 UNC	1
KL-0049-100	Slide Hammer Puller Base Tool	1
KL-1683-2051	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1683-2052	Screw Tap, M8x1	1
KL-0283-7031 A	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032 A	Screw Tap, M12x1	1
KL-0132-5501	Puller Bolt No. 12-24 UNC, for Slide Hammer Puller	1
KL-0132-5202	Puller Bolt, 1/4"-20 UNC, for Slide Hammer Puller	1
KL-0369-3052	Shoulder Nut	1
KL-0132-5692	Foam Insert	1

KL-0132-56 EA



KL-0132-55 K

Glow Plug Tool Set (Universal), M8x1

Suitable for glow plug thread M8x1, e.g. on Mercedes OM639, OM640, OM642, OM651 and Fiat 1.3 JTD, 2.3 JTD, 3.0 JTD.

The universal glow plug tool set **KL-0132-55 K** enables the quick and easy drilling out of damaged or broken-off glow plugs.

The glow plug, respectively the top part of the glow plug, is drilled out or drilled up with the aid of the pilot drill. Next, the original thread is recut and cleaned by means of the special screw tap. The residual glow plug body can then be extracted using the screw tap or a puller bolt in conjunction with a slide hammer puller such as the **KL-0049-100**.

The tool set also contains two special guide sleeves for Fiat JTD and Mercedes CDI engines. These sleeves ensure precise alignment and guidance as well as accurate drilling depth.

Scope of Delivery:

KL-0132-55 K Glow Plug Tool Set (Universal), M8x1

Part-No.	Description	Qty
KL-0132-5501	Puller Bolt No. 12-24 UNC for Slide Hammer Puller	1
KL-0132-5502	Pilot Drill, Ø 7.1 mm, for M8x1	1
KL-0132-5503	Screw Tap M8x1	1
KL-0132-5504	Guide Sleeve for Fiat JTD	1
KL-0132-5505	Guide Sleeve for Mercedes	1
KL-0369-306	Tool Holder with Square Socket	1
KL-1383-2241	Screw Tap No.12-24 UNC	1
KL-4007-2510	Adaptor for Power Drill, 3/8"	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0132-5590	Plastic Storage Case	1



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KL-0132-61 K

Glow Plug Tool Set (Universal), M9x1

Universally suitable for use on the Alfa, Fiat, Lancia, Opel/Vauxhall and Saab 1.9 as well as 2.4 D/TiD/JTD/JTDM/CDTI Diesel engines having an M9x1 glow plug retaining thread.

For example, fitted to Alfa 147, 156, 159, 166, GT; Opel/Vauxhall Astra H, Astra V, Signum, Vectra C, Zafira; Saab 9-3; Fiat Croma, Stilo; Lancia Thesis etc.

(Engine codes: 192A5.000, 841G.000, 841H.000, 937A5.000, 939A2.000, 939A3.000, 939A8.000, Z19DTH, Z19DTJ)

The universal **KL-0132-61 K** glow plug tool set enables the quick and easy drilling out of damaged or broken-off glow plugs.

The glow plug, respectively the glow plug top connector, is drilled out/drilled up with the aid of the pilot drill. Next, the original thread is re-tapped and cleaned with the special screw tap. Then, the remains of the glow plug can be removed using either the screw tap or the puller bolt in conjunction with a slide hammer puller such as **KL-0049-100**.





KL-0132-52 K

Glow Plug Tool Set (Universal), M10x1

Suitable for use on M10x1 glow plug threads; e.g. as found in VW-Audi, Mercedes, Opel/Vauxhall, Peugeot, Renault etc.

The universal glow plug tool set **KL-0132-52 K** enables the quick and easy drilling out of damaged or broken-off glow plugs.

The glow plug, respectively the glow plug top connector, is drilled out or drilled up with the aid of the pilot drill. Next, the original thread is recut and cleaned by means of the special tap. The residual glow plug body can then be extracted using the screw tap or a puller bolt in conjunction with a slide hammer puller such as **KL-0049-100**.

The tool set also contains two special guide sleeves for VW Audi V6 TDI and Mercedes CDI engines. These sleeves ensure precise alignment and guidance as well as accurate drilling depth.

Scope of Delivery:

KL-0132-52 K Glow Plug Tool Set (Universal), M10x1

Part No.	Description	Qty
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-0283-7003	Guide Sleeve, Ø 13mm	1
KL-0132-5201	Guide Sleeve, for Mercedes	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-3056	Screw Tap, 1/4"-20 UNC, with Drill Bit	1
KL-0132-5202	Puller Bolt, 1/4"-20 UNC, for Slide Hammer Puller	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0132-5290	Plastic Storage Case	1



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KL-0132-62 K

Glow Plug Tool Set (Universal), M10x1.25

Universally applicable to the Opel/Vauxhall, Mazda, Ford, Hyundai, Honda, Kia, Mini, Nissan and Toyota 1.4-3.0 D/DI/DTI/TD/CRDi/CDTi Diesel engines having an M10x1.25 glow plug retaining thread. For example, fitted to Opel/Vauxhall Astra G, Astra H, Combo, Corsa C, Meriva, Signum, Vectra C; Mazda 626 II, 626 III, 626 IV, MPV I, B-Serie; Ford Ranger; Hyundai Accent, Getz, Matrix; Honda Civic VI; Kia Besta, Pregio, K2700; Mini One D; Nissan Serena, Terrano II, Vanette; Toyota Yaris, Corolla etc. (Engine codes: 1ND, 1ND-TV, 4EE-2, CD23, D4FA, LD23, MD25Ti, R2, RF OHC, RF46, RF-CX, RF-N, TD27T, WL, WL-T, Y17DT, Y17DTL, Y30DT, Z17DTL, Z30DT)

The universal **KL-0132-62 K** glow plug tool set enables the quick and easy drilling out of damaged or broken-off glow plugs.

The glow plug, respectively the glow plug top connector, is drilled out/drilled up with the aid of the pilot drill. Next, the original thread is re-tapped and cleaned with the special screw tap. Then, the remains of the glow plug can be removed using either the screw tap or the puller bolt in conjunction with a slide hammer puller such as **KL 0049-100**.

KL-0049-100

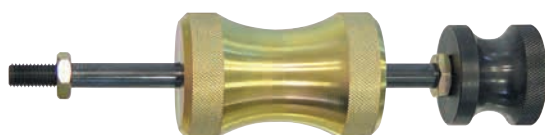
Slide Hammer Puller (Base Tool)

This tool is designed to extract tight-fitting and seized components such as glow plugs, spindles etc. It is used in conjunction with the respective corresponding adaptors or puller bolts.

Scope of Delivery:

KL-0049-100 Slide Hammer Puller (Base Tool)

Part No.	Description	Qty
KL-0049-1503	Pull Rod	1
KL-0049-1012	Handle	1
KL-0049-1013	Hammer Weight	1
KL-0049-1003	Hex Nut, M10	2



KL-0369-300 A

Roller-Type Stud Removal Socket

The socket is used to twist the electrode top connector/protruding central electrode off the glow plug.

Technical Data:

For electrode Ø:	2.5-4.5mm
Length:	70mm

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible Ratchet

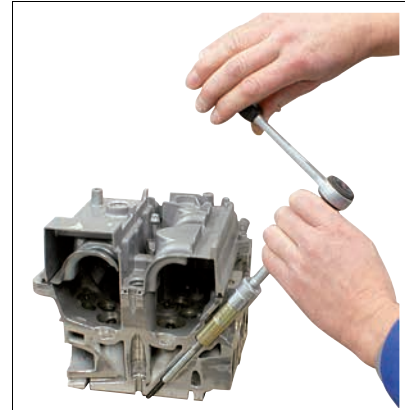


DMK 100 CODE:2641232

Torque Wrench Dremaster 20-100Nm



7 R - Combination Ratchet Spanner



KL-0283-70 K

Glow Plug Tool Set, VW-Audi

Suitable for use on M10x1 glow plug threads as found in VW-Audi 2.5, 2.7 and 3.0 V6 TDI engines.

(Engine codes: AFB, AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC, BPP, BSG, ASB, BKN, BKS, BMK, BNG, BUN, BUG)

The **KL-0283-70 K** glow plug tool set is designed for the quick, accurate and professional drilling out of damaged or torn-off glow plugs. Set also includes tools for recutting, cleaning and the repair of glow plug retaining threads as well as for the cleaning of glow plug bores.

First, the glow plug top part is drilled out or drilled up by means of the pilot drill. Next, the original thread is recut and cleaned using the special screw tap. If glow plug retaining threads are damaged, these can be drilled up to M12x1 with the aid of the special oversize screw tap.

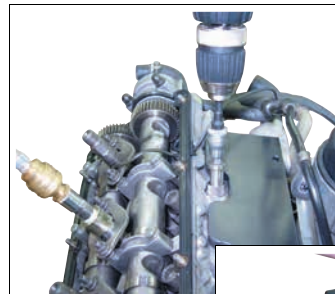
The centring/guide sleeves included in this tool set, ensure accurate and correct centring and guidance as well as the exact drilling depth whilst drilling out and during the thread repair. The remaining glow plug body is then extracted with the puller.

Finally the glow plug bore hole, the seal seat and the small aperture leading to the combustion chamber can be cleaned with the reamer.

Scope of Delivery:

KL-0283-70 K Glow Plug Tool Set, VW-Audi

Part No.	Description	Qty
KL-0283-7001	Cover Plate	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0283-7002	Guide Sleeve, Ø 13mm, long	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-0283-7003	Guide Sleeve, Ø 13mm	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0283-704	Compressed Air Adaptor for Injection Nozzle Bore	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0283-705	Puller Tool for Glow Plug Body	1
KL-0283-7061	Cleaning Tool (long)	1
KL-0283-7062	Cleaning Tool (short)	1
KL-0283-7063	Guide Sleeve for Cleaning Tool	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0283-7090	Plastic Storage Case	1





KL-0283-70-1 K

Upgrade Kit (TDI) for KL-0369-30 K
(to form KL-0283-70 K), VW-Audi

The KL-0283-70-1 K tool kit is designed to upgrade the KL-0369-30 K glow plug tool set so that this also covers the VW-Audi V6 TDI engines.

Scope of Delivery: KL-0283-70-1 K Upgrade Kit (TDI)

Part No.	Description	Qty
KL-0283-7001	Cover Plate	1
KL-0283-7002	Guide Sleeve, Ø 13mm, long	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-0283-7003	Guide Sleeve, Ø 13mm	1
KL-0283-704	Compressed Air Adaptor for Injector Nozzle Bore	1
KL-0283-7050	Puller (Base Tool)	1
KL-0283-7052	Support Seeve	1
KL-0283-7061	Cleaning Tool (long design)	1
KL-0283-7062	Cleaning Tool (short design)	1
KL-0283-7063	Guide Sleeve for Cleaning Tool	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0283-7090	Plastic Storage Case	1



KL-0369-34 KA

Glow Plug Tool Upgrade Kit, Mercedes

Applicable to Mercedes CDI engines with either M8x1 or M10x1 glow plug retaining threads. (Engine codes: OM611, OM612, OM613, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM668)

The KL-0369-34 KA upgrade kit is used in conjunction with the universal glow plug tool set KL-0132-56 KA, thus, allowing for the accurate removal, respectively drilling out, of damaged glow plugs and re-tapping the original M8x1 and M10x1 thread. It also allows the user to repair a damaged glow plug retaining thread by drilling it up to M10x1 or M12x1 respectively.

Then, the new glow plug along with a threaded sleeve can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air is injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

With the aid of the puller that comes with the KL-0132-56?KA tool set, glow plugs or glow tubes/elements that are stuck/seized in the glow plug channel can be pulled out quickly and with ease.

Scope of Delivery:

KL-0369-34 KA Glow Plug Tool Upgrade Kit, Mercedes

Part No.	Description	Qty
KL-0369-34 EA	Glow Plug Tool Upgrade Kit, Mercedes, in a Foam Insert	1
KL-0132-5691	Plastic Storage Case	1



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Scope of Delivery: KL-0369-34 EA Glow Plug Tool Upgrade Kit, Mercedes, in an Foam Insert

Part No.	Description	Qty
KL-0369-3071	Guide Sleeve, Ø 17x75mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3081	Retaining Sleeve for Ø 17mm	1
KL-0369-3171	Guide Sleeve, Ø 13x75mm	1
KL-0369-3172	Guide Sleeve, Ø 13x60mm	1
KL-0369-3173	Guide Sleeve, Ø 13x12mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3311	Base Plate	1
KL-0369-3312	Special Screw, M7	3
KL-0369-3313	Setting Bolt	1
KL-0369-3321	Guide Sleeve for Milling Cutter	1
KL-0369-3331	Guide Sleeve for Drill	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-3361	Guide Sleeve for Reamer	1
KL-0369-3362	Reamer, Ø 7/4.8mm	1
KL-0369-3341	Guide Sleeve for Puller	1
KL-0369-3221	Base Plate with Inclined Bore	1
KL-0369-3222	Special Nut	3
KL-0369-3231	Guide Sleeve for Drill	1
KL-0369-3241	Reamer, Ø 5.8mm	1
KL-0369-3242	Guide Sleeve for Reamer, Ø 5.8mm	1
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-3031 A	Base Body	1
KL-0369-3041	Guide Sleeve for Reamer	1
KL-0369-3042 A	Reamer	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode	1
KL-0369-3492	Foam Insert	1

KL-0369-30 K

Glow Plug Tool Set, Mercedes CDI

Suitable for use on the Mercedes CDI engines OM611, OM612, OM613, OM646, OM646 EVO, OM647 and OM648 etc.

Designed for the accurate and professional removal of seized glow plugs without removing the cylinder head from the vehicle.

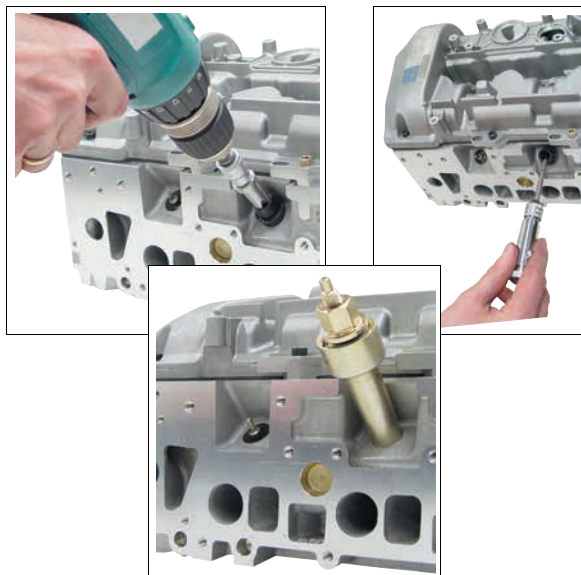
The **KL-0369-30 K** glow plug tool set enables the accurate removal respectively drilling out of damaged glow plugs, as well as re-tapping the original M10x1 thread. It also allows the user to repair a damaged glow plug retaining thread M10x1 by drilling it up to M12x1. Then, the new glow plug along with a threaded sleeve (M12x1 to M10x1) can be screwed into the cylinder head.

Glow plugs or glow tubes/elements seized in the glow plug channel can properly be extracted with the aid of the puller that comes with the tool set.

Scope of Delivery:

KL-0369-30 K Glow Plug Tool Set, Mercedes CDI

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-303	Installation/Removal Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-2013	Collet Chuck	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1



KL-0369-31 K

Glow Plug Tool Set, CDI

Suitable for use on the Mercedes CDI engines OM611, OM612, OM613, OM646, OM646 EVO, OM647 and OM648 etc.

Designed for the accurate and professional removal of seized glow plugs without removing the cylinder head from the vehicle.

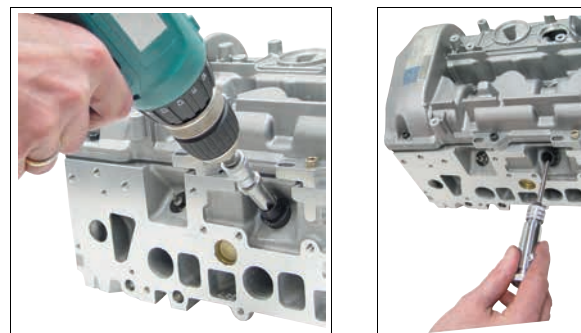
The glow plug tool set **KL-0369-31 K** enables the accurate removal/drilling out of damaged glow plugs as well as recutting the original M10x1 thread.

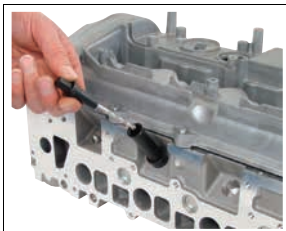
Glow plugs or glow plug elements seized in the glow plug channel can be extracted with the aid of the puller included in the tool set.

Scope of Delivery:

KL-0369-31 K Glow Plug Tool Set, CDI

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1 thread	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-303	Mounting/Dismounting Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-4007-2510	Adaptor for Power Drill, 3/8" Square Socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1





KL-0369-307 K

Milling Cutter Kit for Glow Plug Electrode, Mercedes

Suitable for use on Mercedes CDI engines OM611, OM612, OM613, OM646, OM646 EVO, OM647 and OM648.

This kit complements our glow plug tool sets **KL-0369-30 K** and **KL-0369-31 K**. The milling cutter is used in conjunction with our **KL-0369-30 K/ KL-0369-31 K** tool sets, thus allowing for the professional milling off of the centre electrode from torn-off glow plugs.

Scope of Delivery: KL-0369-307 K Milling Cutter Kit for Glow Plug Electrode

Part No.	Description	Qty
KL-0369-3071	Guide Sleeve, Ø 17x75mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3031 A	Base Body, 75mm long	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3079	Plastic Storage Case	1

KL-0369-317 K

Milling Cutter Kit for Glow Plug Electrode, Mercedes

Suitable for use on Mercedes CDI engines with an M8x1 or M10x1 glow plug retaining thread, e.g.: OM611, OM612, OM613, OM639, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM651 and OM668.

Once the top connector has been separated from the glow plug with the aid of the **KL-0369-300** roller-type stud removal socket (included in tool sets **KL-0369-30K / KL-0369-31 K**), the remaining centre electrode can be milled off with the **KL-0369-317 K** milling cutter.

The residual glow plug tube with heating element can then be removed/drilled out using the **KL-0369-30 K / -31 K** tool set (with OM611, OM612, OM613, OM646, OM646 EVO, OM647, OM648), the **KL-0369-32 K** tool set (with OM668) or the **KL-0132-55 K** tool set (with OM639, OM640, OM642, OM651).

Scope of Delivery: KL-0369-317 K Milling Cutter Kit for Glow Plug Electrode

Part No.	Description	Qty
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-0369-3071	Guide Sleeve, Ø 17x75mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3081	Retaining Sleeve for Ø 17mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3171	Guide Sleeve, Ø 13x75mm	1
KL-0369-3172	Guide Sleeve, Ø 13x60mm	1
KL-0369-3173	Guide Sleeve, Ø 13x12mm	1
KL-0369-3031 A	Base Body, 75mm long	1
KL-0369-3079 A	Plastic Storage Case	1



Technical Data:

Weight:	0.6kg
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Technical Data:

Length:	240mm
Weight:	290g

KL-0369-56 B

Compressed Air Adaptor, M10x1

Suitable for use on Mercedes CDI engines: OM611, OM612, OM613, OM646, OM646 EVO, OM647, OM648 etc.

With the aid of this adaptor, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter (piston of the cylinder to be repaired on TDC position, valves are closed).

The tool is needed when drilling out broken off glow plugs or when repairing glow plug retaining threads.

The built-in control valve ensures the correct supply of compressed air.

KL-0369-30-1 K

Upgrade Kit (CDI) for KL-0369-32 K

(to form KL-0369-30 K), Mercedes

The KL-0369-30-1 K tool kit upgrades the KL-0369-32 K glow plug tool set by making it also suitable for use on the Mercedes CDI engines OM 611, 612, 613, 646, 646 EVO, 647, 648 etc.

Scope of Delivery:

KL-0369-30-1 K Upgrade kit (CDI) for KL-0369-32 K (to form KL-0369-30 K)

Part No.	Description	Qty
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-303	Installation/Removal Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-2013	Collet Chuck	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1



KL-0369-30-2 K

Upgrade Kit (CDI) for KL-0369-33 K

(to form KL-0369-30 K), Mercedes

The KL-0369-30-2 K tool kit upgrades the KL-0369-33 K glow plug tool set by making it also suitable for use on the Mercedes CDI engines OM 611, 612, 613, 646, 646 EVO, 647 and 648 etc.

Scope of Delivery:

KL-0369-30-2 K Upgrade Kit (CDI) for KL-0369-33 K (to form KL-0369-30 K)

Part No.	Description	Qty
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0369-303	Installation/Removal Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-2013	Collet Chuck	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1



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KL-0369-30-3 K

Upgrade Kit (CDI) for KL-0283-70 K

(to form KL-0369-30 K), Mercedes

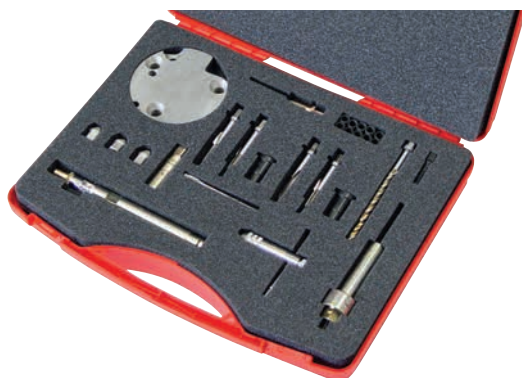
The KL-0369-30-3 K tool kit upgrades the KL-0283-70 K glow plug tool set by making it also suitable for use on the Mercedes CDI engines OM 611, 612, 613, 646, 646 EVO, 647 and 648 etc.

Scope of Delivery:

KL-0369-30-3 K Upgrade Kit (CDI) for KL-0283-70 K (to form KL-0369-30 K)

Part No.	Description	Qty
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-303	Installation/Removal Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-2013	Collet Chuck	1
KL-0369-3050	Puller (Base Tool)	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1





KL-0369-32 K

Glow Plug Tool Set, Mercedes CDI

Suitable for use on Mercedes CDI engines OM668 as found in A-Class.

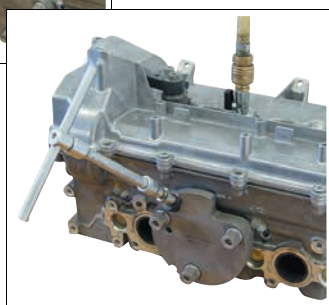
Designed for the professional removal of seized, corroded or broken-off glow plugs. The kit also includes all the necessary tools to repair glow plug retaining threads without the need for removing the cylinder head from the vehicle.

The **KL-0369-32 K** glow plug tool set enables broken-off glow plugs to be drilled out accurately and the original M10x1 internal thread to be recut. It also allows the user to repair a damaged M10x1 glow plug retaining thread by drilling it up to M12x1. The new glow plug along with a threaded sleeve (M12x1 to M10x1) can then be screwed into the cylinder head.

Scope of Delivery:

KL-0369-32 K Glow Plug Tool Set, Mercedes CDI

Part No.	Description	Qty
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-322	Base Plate with Nuts	1
KL-0369-3231	Guide Sleeve for Drill	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-324	Cleaning Tool Kit for Glow Plug Channel	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3290	Plastic Storage Case	1



6



KL-0369-320 K

Glow Plug Tool Set, Mercedes A-Class

Suitable for use on Mercedes CDI engines OM668 as found in A-Class etc.

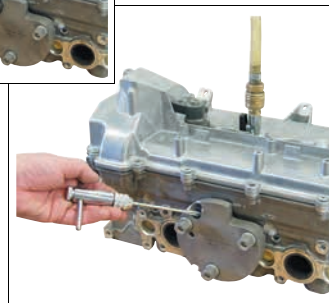
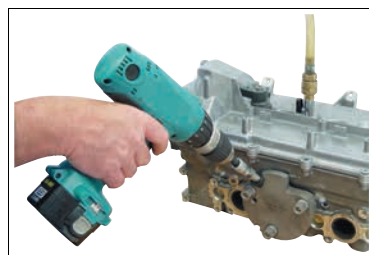
Indispensable for the accurate and professional removal of seized or broken-off glow plugs without the need to remove the cylinder head from the vehicle.

The glow plug tool set **KL-0369-320 K** enables the accurate drilling out of broken glow plugs as well as recutting and cleaning the original M10x1 thread. Glow plugs or glow plug bodies seized in the glow plug channel can be extracted with the puller that comes with the tool set.

Scope of Delivery:

KL-0369-320 K Glow Plug Tool Set, Mercedes A-Class

Part No.	Description	Qty
KL-0369-322	Base Plate with Nuts	1
KL-0369-3231	Guide Sleeve for Drill	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1 thread	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-324	Cleaning Tool Kit for Glow Plug Channel	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-4007-2510	Adaptor for Power Drill, 3/8", square socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3290	Plastic Storage Case	1



KL-0369-308 K

Milling Cutter Kit for Glow Plug Electrode, Mercedes

Suitable for use on the following Diesel engines: Mercedes A-Class 1.7 CDI, Fiat Ducato 2.3/3.0 JTD, Peugeot Boxer III 3.0 HDI, Citroën Relay/Jumper III 3.0 HDI and Iveco Daily 2.3/3.0 JTD.

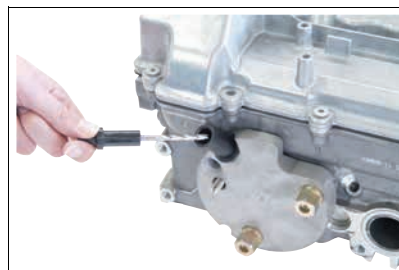
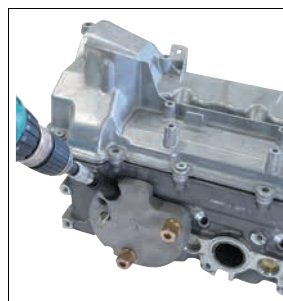
(Engine codes: OM668, F1AE 0481, F1CE 0481, F1CE 3481, F30DTE)

The milling cutter kit complements our **KL-0369-32 K** glow plug tool set. The tool is designed to mill off the centre electrode from torn-off glow plugs. It is used in conjunction with the glow plug tool set **KL-0369-32 K**.

Scope of Delivery:

KL-0369-308 K Milling Cutter Kit for Glow Plug Electrode, Mercedes

Part No.	Description	Qty
KL-0369-3071	Guide Sleeve, Ø 17x76mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3081	Retaining Sleeve for Ø 17mm	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3079	Plastic Storage Case	1



KL-0369-32-1 K

Upgrade Kit (CDI) for KL-0369-30 K

The **KL-0369-32-1 K** tool kit upgrades the **KL-0369-30 K** glow plug tool set by making it also suitable for use on CDI engines OM668 as found in Mercedes A-Class-etc.

Scope of Delivery:

KL-0369-32-1 K Upgrade Kit (CDI) for KL-0369-30 K

Part No.	Description	Qty
KL-0369-322	Base Plate with Nuts	1
KL-0369-3231	Guide Sleeve for Drill	1
KL-0369-3241	Reamer, Ø 5.8mm	1
KL-0369-3242	Guide Sleeve for Reamer, Ø 5.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3290	Plastic Storage Case	1



6

KL-0369-32-2 K

Upgrade Kit (CDI) for KL-0369-33 K (to form KL-0369-32 K)

The **KL-0369-32-2 K** tool kit upgrades the **KL-0369-33 K** glow plug tool set by making it also suitable for use on CDI engines OM668 as found in Mercedes A-Class-etc.

Scope of Delivery:

KL-0369-32-2 K Upgrade Kit (CDI) for KL-0369-33 K (to form KL-0369-32 K)

Part No.	Description	Qty
KL-0369-322	Base Plate with Nuts	1
KL-0369-3231	Guide Sleeve for Drill	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-3241	Reamer, Ø 5.8mm	1
KL-0369-3242	Guide Sleeve for Reamer, Ø 5.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3290	Plastic Storage Case	1





KL-0369-202

Glow Plug Removal Tool, M8x1

Universally applicable to Diesel engines having an M8x1 glow plug retaining thread and a glow plug size of 8mm waf.

Particularly useful, for example, on Mercedes: OM642, OM651, OM640; Fiat / Lancia / Opel/Vauxhall 1.3 JTD / CDTi; PSA: 2.2 (DW12), 1.4 (DV4 8V), 1.6 (DV6 8V + 16V), 2.7 (DT17) and VW 2.5 TDI.

The tool is designed for pulling out glow plugs that have been unscrewed, but are still stuck in their bore hole in the cylinder head.

Technical Data:

Drive:	waf 19/6mm
Length:	135mm



KL-0369-33 K

Glow Plug Tool Set, M8x1, Mercedes

Suitable for use on Mercedes CDI Diesel engines OM640 and OM642 with M8x1 glow plug thread.

The KL-0369-33 K glow plug tool set allows for the quick, accurate and professional drilling out of damaged or snapped-off glow plugs. The set also includes tools for the recutting, cleaning and repair of glow plug retaining threads as well as for the cleaning of glow plug bores.

First, the glow plug/top connector is drilled out/drilled up by means of the pilot drill. Next, the original thread is recut with the aid of the screw tap and cleaned. If glow plug retaining threads are damaged, these can be drilled up to M10x1 using the special re-bore tap.

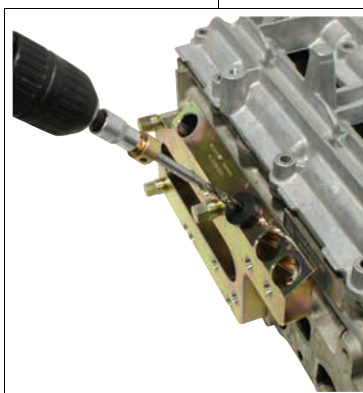
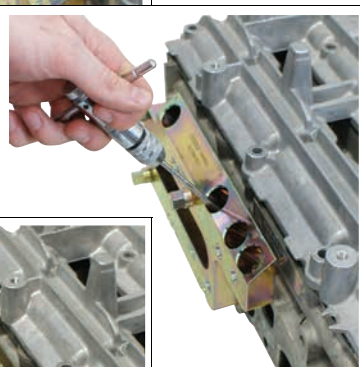
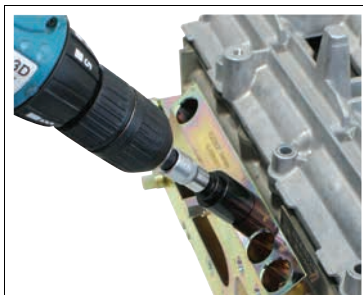
The use of the centring/guide sleeves in conjunction with the base plate ensures accurate and correct centring and guidance as well as the exact drilling depth when drilling out/repairing the thread. The remainder of the glow plug can be extracted with the puller.

Finally, the glow plug bore, the sealed seat, and the glow plug channel (the small aperture leading to the combustion chamber) are cleaned with the cleaning tool.

Scope of Delivery:

KL-0369-33 K Glow Plug Tool Set, M8x1, Mercedes

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0369-3311	Base Plate	1
KL-0369-3312	Special Screw, M7	3
KL-0369-3313	Setting Bolt	1
KL-0369-3321	Guide Sleeve for Milling Cutter	1
KL-4007-2510	Adaptor for Power Drill, 3/8", square socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare Milling Cutter)	1
KL-0369-3331	Guide Sleeve for Drill	1
KL-1383-2231	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1383-2232	Screw Tap, M8x1	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-1383-2234	Set of Threaded Sleeves M8x1, 16mm long (10 units)	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-334	Puller for Glow Plug Body	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-3361	Guide Sleeve for Cleaning Tool	1
KL-0369-3362	Cleaning Tool, Ø 7/4.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3390	Plastic Storage Case	1



KL-0369-330 K

Glow Plug Tool Set, M8x1, Mercedes

Suitable for use on Mercedes CDI Diesel engines OM640 and OM642 with M8x1 glow plug thread.

The glow plug tool set **KL-0369-330 K** enables the quick, accurate and professional drilling out of damaged or snapped-off glow plugs. The set also includes tools for recutting and cleaning glow plug retaining threads as well as for the cleaning of glow plug bores.

First, the glow plug/top connector is drilled out/drilled up by means of the pilot drill. Next, the original thread is recut with the aid of the screw tap and cleaned.

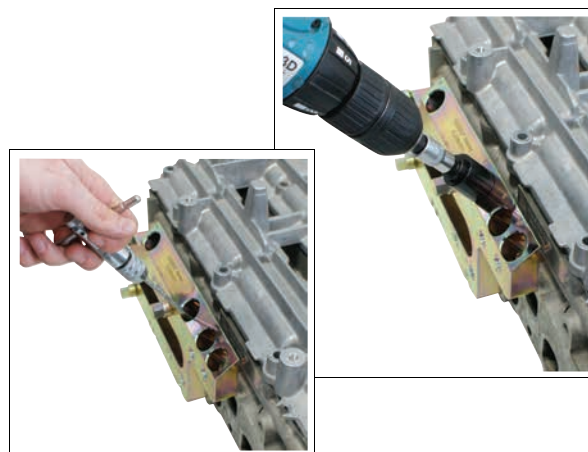
The use of the centring/guide sleeves in conjunction with the base plate ensures accurate and correct centring and guidance as well as the exact drilling depth when drilling out/repairing the thread. The remainder of the glow plug can be extracted with the puller.

Then, the glow plug bore, the sealed seat, and the glow plug channel (the small aperture leading to the combustion chamber) are cleaned with the cleaning tool.

Scope of Delivery:

KL-0369-330 K Glow Plug Tool Set, M8x1, Mercedes

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0369-331	Base Tool	1
KL-0369-3321	Guide Sleeve for Milling Cutter	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-0369-3331	Guide Sleeve for Drill	1
KL-1383-2231	Pilot Drill, Ø 7.1 mm for M8x1	1
KL-1383-2232	Screw Tap, M8x1	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-334	Puller for Glow Plug Body	1
KL-0369-3361	Guide Sleeve for Cleaning Tool	1
KL-0369-3362	Cleaning Tool, Ø 7/4.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3390	Plastic Storage Case	1



KL-0369-33-1 K

Upgrade Kit (CDI)

for KL-0369-30 K/KL-0369-32 K

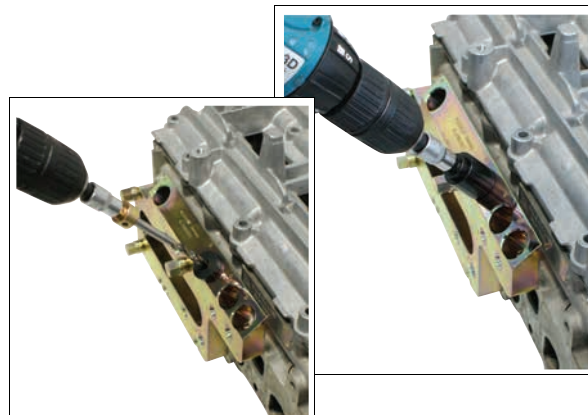
Applicable to Mercedes CDI Diesel engines OM640 and OM642 with M8x1 glow plug thread.

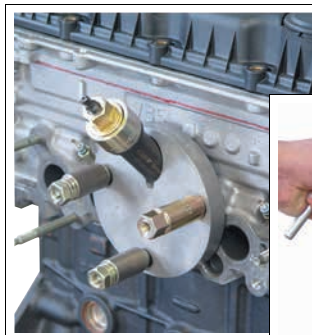
The **KL-0369-33-1 K** upgrade kit is designed to complement our glow plug tool sets **KL-0369-30 K** and **KL-0369-32 K** making these suitable for use also on Mercedes CDI Diesel engines OM640 and OM642 with M8x1 glow plug thread.

Scope of Delivery:

KL-0369-33-1 K Upgrade Kit (CDI) for KL-0369-30 K/KL-0369-32 K

Part No.	Description	Qty
KL-0369-331	Base Tool	1
KL-0369-3321	Guide Sleeve for Milling Cutter	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-0369-3331	Guide Sleeve for Drill	1
KL-1383-2231	Pilot Drill, Ø 7.1 mm for M8x1	1
KL-1383-2232	Screw Tap, M8x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-0369-334	Puller for Glow Plug Body	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-3361	Guide Sleeve for Cleaning Tool	1
KL-0369-3362	Cleaning Tool, Ø 7/4.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3390	Plastic Storage Case	1





KL-1383-20 K

Glow Plug Tool Set, PSA 2.0

Suitable for use on the PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines, as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo vehicles etc.

The **KL-1383-20 K** glow plug tool set is indispensable for the accurate removal and drilling out of damaged glow plugs and for retapping the original M10x1 thread. It also allows for the repair of a damaged M10x1 glow plug retaining thread by drilling it up to M12x1. The new glow plug along with a threaded sleeve (M12x1 to M10x1) can then be screwed into the cylinder head.

Scope of Description:

KL-1383-20 K Glow Plug Tool Set, PSA 2.0

Part No.	Description	Qty
KL-1383-201	Compressed Air Adaptor for Injector Nozzle Bore Ø 17.1mm	1
KL-1383-202	Base Plate with Nuts	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2041	Guide Sleeve for Drill	1
KL-1383-2042	Set of Threaded Sleeves, M10x1, 26mm long (10-piece)	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-1383-205	Puller Kit for Glow Plug Body	1
KL-1383-206	Cleaning Tool Set for Glow Plug Channel	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-2090	Plastic Storage Case	1

6



KL-1383-21 K

Glow Plug Tool Set, Peugeot/Citroën

Suitable for use on PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

The **KL-1383-21 K** glow plug tool set is indispensable for the accurate removal and drilling out of damaged glow plugs and retapping the original M10x1 thread. The new glow plug along with a threaded sleeve (M12x1 to M10x1) can then be screwed into the cylinder head.

Scope of Delivery:

KL-1383-21 K Glow Plug Tool Set, Peugeot/Citroën

Part No.	Description	Qty
KL-1383-202	Base Plate with Nuts	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2041	Guide Sleeve for Drill	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1 thread	1
KL-0283-7022	Screw Tap, M10x1	1
KL-1383-205	Puller Kit for Glow Plug Body	1
KL-1383-206	Cleaning Tool Kit for Glow Plug Channel	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-2090	Plastic Storage Case	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 100 CODE:2641232

Torque Wrench Dremaster 20-100Nm



7 R - Combination Ratchet Spanner



KL-0369-309 K

Guide Sleeve Set, PSA

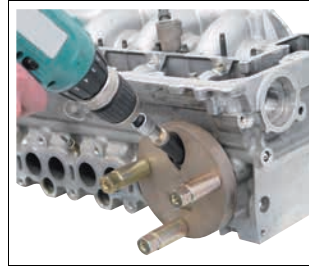
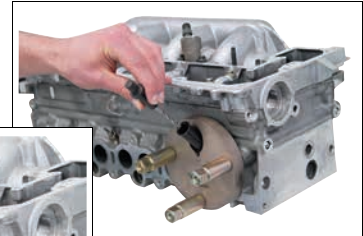
Applicable to PSA 2.0 (110bhp, 135bhp) [DW10] HDI TwinCam engines as found in Peugeot, Citroën etc.

This set complements our glow plug tool sets **KL-1383-20 K** and **KL-1383-21 K**. The guide sleeve set allows the user to mill off the central electrode from broken-off glow plugs. It is used in conjunction with the glow plug tool set **KL-1383-20 K** or **KL-1383-21 K**.

Scope of Delivery:

KL-0369-309 K Guide Sleeve Set, PSA

Part No.	Description	Qty
KL-0369-3071	Guide Sleeve, Ø 17x76mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3081	Retaining Sleeve for Ø 17mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3079	Plastic Storage Case with Insert	1



KL-1383-20-1 K

Upgrade Kit for KL-1383-22 K to form KL-1383-20 K, PSA 2.0

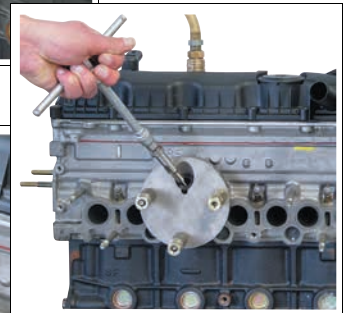
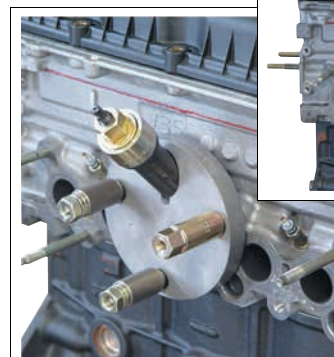
Suitable for use on the PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

The **KL-1383-20-1 K** upgrade kit is designed to complement our **KL-1383-22 K** glow plug tool set, making it suitable also for use on the PSA 2.0 (110bhp, 135bhp) HDI Diesel engines as installed in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc. (engine code: DW10).

Scope of Delivery:

KL-1383-20-1 K Upgrade Kit for KL-1383-22 K to form KL-1383-20 K, PSA 2.0

Part No.	Description	Qty
KL-1383-201	Compressed Air Adaptor for Injector Nozzle Bore, Ø 17.1mm	1
KL-1383-202	Base Plate with Nuts	1
KL-1383-2041	Guide Sleeve for Drill	1
KL-1383-2042	Set of Threaded Sleeves M10x1, 26mm long (10 units)	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-1383-2051	Guide Sleeve for Puller	1
KL-1383-2052	Puller Bolt, 1/4"-20 UNC, 185mm long	1
KL-0369-3050	Puller (Base Tool)	1
KL-0369-3056	Screw Tap, 1/4"-20 UNC, with Drill Bit	1
KL-1383-2061	Cleaning Tool, Ø 5.8mm	1
KL-1383-2062	Guide Sleeve for Cleaning Tool (Ø 5.8mm)	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-2090	Plastic Storage Case	1





KL-1383-22 K

(Patented)

Glow Plug Tool Set, PSA 2.2

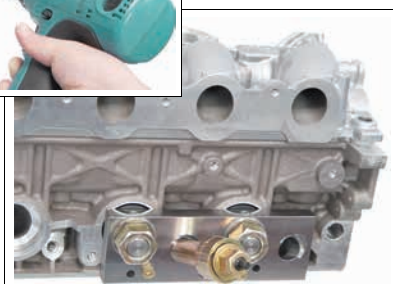
Suitable for use on PSA 2.2 16V [DW12] HDI Diesel engines as found in Peugeot, Citroën, Ford, Fiat, Lancia, Jaguar etc.

The **KL-1383-22 K** glow plug tool set enables the accurate removal respectively drilling out of damaged glow plugs, as well as re-tapping the original M8x1 thread. It also allows the user to repair a damaged M8x1 glow plug retaining thread by drilling it up to M10x1. Then, a new glow plug along with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor that comes with the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Scope of Delivery:

KL-1383-22 K Glow Plug Tool Set, PSA 2.2

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1383-221	Base Plate with Bolt	1
KL-1383-2221	Guide Sleeve (long) for Milling Cutter	1
KL-1383-2222	Guide Sleeve for Milling Cutter	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2233	Guide Sleeve for Drill	1
KL-1383-2231	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1383-2232	Screw Tap, M8x1	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-1383-224	Puller Tool for Glow Plug Body	1
KL-1383-225	Compressed Air Adaptor for Injection Nozzle Bore, PSA 2.2	1
KL-1383-2261	Guide Sleeve for Cleaning Tool	1
KL-1383-2262	Cleaning Tool, Ø 6.8/5.2mm	1
KL-1383-2290	Plastic Storage Case	1



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KL-1383-22-1 K

(Patented)

Upgrade Kit (HDI) for KL-1383-20 K, PSA 2.2

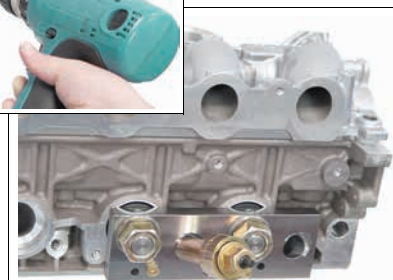
Suitable for use on PSA 2.2 16 V [DW12] HDI Diesel engines as found in Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.

The **KL-1383-22-1 K** tool kit upgrades our **KL-1383-20 K** glow plug tool set so that it also covers the PSA 2.2 16V [DW12] HDI Diesel engines installed in Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.

Scope of Delivery:

KL-1383-22-1 K Upgrade kit (HDI) for KL-1383-20 K, PSA 2.2

Part No.	Description	Qty
KL-1383-221	Base Plate with Bolts	1
KL-1383-2221	Guide Sleeve (long) for Milling Cutter	1
KL-1383-2222	Guide Sleeve for Milling Cutter	1
KL-1383-2231	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1383-2233	Guide Sleeve for Drill	1
KL-1383-2232	Screw Tap, M8x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-1383-2241	Screw Tap, No.12-24 UNC, with Drill Bit	1
KL-1383-2242	Puller Bolt, No.12-24 UNC, 165mm long	1
KL-0283-7050	Puller (Base Tool)	1
KL-1383-225	Compressed Air Adaptor for Injector Nozzle Bore, PSA 2.2	1
KL-1383-2261	Guide Sleeve for Cleaning Tool	1
KL-1383-2262	Cleaning Tool, Ø 6.8/5.2mm	1
KL-1383-2290	Plastic Storage Case	1



KL-1383-291 K

Thread Cleaning Kit for Glow Plug Retaining Thread M8x1

Suitable for use on PSA 2.2 16V (DW12) and Fiat 2.3 (F1A); 3.0 (F1C, F30 DT) JTD/ HDI Diesel engines as installed in Citroën, Peugeot, Ford, Fiat, Jaguar, Lancia, IVECO etc.

The **KL-1383-291 K** thread cleaning kit enables the removal/drilling out of damaged glow plugs as well as retapping the original M8x1 retaining thread.

Scope of Delivery:

KL-1383-291 K Thread Cleaning Kit for Glow Plug Retaining Thread M8x1

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-4007-2510	Adaptor for Power Drill, 3/8"	1
KL-1683-2051	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1683-2052	Screw Tap, M8x1	1
KL-1383-2241	Screw Tap, 12-24 UNC, with Drill Bit	1
KL-0132-5501	Puller Bolt, No. 12-24 UNC, for Slide Hammer Puller	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0132-5590	Plastic Storage Case	1



KL-1683-20-2 K

Upgrade Kit for KL-1383-291 K to form KL-1683-20 K

Suitable for use on Fiat 2.3 (F1A) and 3.0 (F1C, F30 DT) JTD/HDI Diesel engines as found in Fiat Ducato, IVECO Daily, Citroën Jumper, Peugeot Boxer.

The **KL-1683-20-2 K** upgrade kit is designed to be used with the **KL-1383-291 K** thread cleaning kit, thus enabling the precise removal/drilling out of damaged glow plugs and re-tapping the original M8x1 thread. It also allows for the repair of damaged M8x1 glow plug retaining threads by drilling up to M10x1. Then, a new glow plug along with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Scope of Delivery:

KL-1683-20-2 K Upgrade Kit for KL-1383-291 K to form KL-1683-20 K

Part No.	Description	Qty
KL-1683-2012	Centring Sleeve	1
KL-1683-201	Base Fitting Strip, 2.3 JTD	1
KL-1683-202	Base Fitting Strip, 3.0 JTD	1
KL-1683-2031	Guide Sleeve for Milling Cutter	1
KL-1683-2032	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1683-2041	Guide Sleeve for Drill	1
KL-1683-2061	Pilot Drill, Ø 9.1mm for M10x1	1
KL-1683-2062	Screw Tap, M10x1	1
KL-1383-2234	Set of Threaded Sleeves M8x1, 16mm long (10-piece)	1
KL-0283-7050	Puller (Base Tool)	1
KL-1683-2071	Support Sleeve for Puller	1
KL-0369-3052	Shoulder Nut	1
KL-1383-2242	Puller Bolt, No. 12-24 UNC, 165mm long	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-1683-2081	Guide Sleeve for Reamer	1
KL-1683-2082	Reamer, Ø 6.9/4.9mm	1
KL-1683-2090 A	Plastic Storage Case	1



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Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



7 R - Combination Ratchet Spanner





KL-1383-292 K

Thread Cleaning Kit for Glow Plug Retaining Thread M10x1

Suitable for use on PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

The **KL-1383-292 K** thread cleaning kit enables the removal/drilling out of damaged glow plugs as well as re-tapping the original M10x1 thread.

Scope of Delivery:

KL-1383-292 K Thread Cleaning Kit for Glow Plug Retaining Thread M10x1

Part No.	Description	Qty
KL-4007-2510	Adaptor for Power Drill, 3/8", Square	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-3056	Screw Tap, 1/4"-20 UNC, with Drill Bit	1
KL-0132-5202	Puller Bolt, 1/4"-20 UNC for Slide Hammer Puller	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0132-5590	Plastic Storage Case	1

KL-1383-22-2 K

(Patented)

Upgrade Kit for KL-1383-291 K to form KL-1383-22 K

Suitable for use on PSA 2.2 16V [DW12] HDI Diesel engines as installed in Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.

The **KL-1383-22-2 K** upgrade kit is designed to be used with the **KL-1383-291 K** thread cleaning kit, thus enabling the precise removal/drilling out of damaged glow plugs and re-tapping the original M8x1 thread. It also allows for the repair of damaged M8x1 glow plug retaining threads by drilling up to M10x1. Then, a new glow plug along with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, compressed air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Scope of Delivery:

KL-1383-22-2 K Upgrade Kit for KL-1383-291 K to form KL-1383-22 K

Part No.	Description	Qty
KL-1383-221	Base Plate with Bolts	1
KL-1383-2221	Guide Sleeve (long) for Milling Cutter	1
KL-1383-2222	Guide Sleeve for Milling Cutter	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2233	Guide Sleeve for Drill	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10 units)	1
KL-1383-2242	Puller Bolt, No.12-24 UNC, 165mm long	1
KL-0369-3052	Shoulder Nut	1
KL-0283-7050	Puller (Base Tool)	1
KL-1383-225	Compressed Air Adaptor for Injector Nozzle Bore	1
KL-1383-2261	Guide Sleeve for Reamer	1
KL-1383-2262	Reamer, Ø 6.8/5.2mm	1
KL-1383-2290	Plastic Storage Case	1

KL-1383-20-2 K

Upgrade Kit for KL-1383-292 K to form KL-1383-20 K

Suitable for use on PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

The **KL-1383-20-2 K** upgrade kit is designed to be used with the **KL-1383-292 K** thread cleaning kit, thus enabling the precise removal and drilling out of damaged glow plugs and re-tapping the original M10x1 thread. It also allows for the repair of damaged M10x1 glow plug retaining threads by drilling up to M12x1. The new glow plug along with a threaded sleeve (M12x1 to M10x1) can then be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Scope of Delivery: KL-1383-20-2 K Upgrade Kit for KL-1383-292 K

Part No.	Description	Qty
KL-1383-201	Compressed Air Adaptor for Injector Nozzle Bore Ø 17.1mm	1
KL-1383-202	Base Plate with Nuts	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2041	Guide Sleeve for Drill	1
KL-1383-2042	Set of Threaded Sleeves, M10x1, 26mm long	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3050	Puller (Base Tool)	1
KL-1383-2051	Guide Sleeve for Puller Tool	1
KL-1383-2052	Puller Bolt, 1/4"-20 UNC, 185mm long	1
KL-1383-206	Cleaning Tool Set for Glow Plug Channel	1
KL-1383-2090	Plastic Storage Case	1



KL-1383-24 K

(Patented)

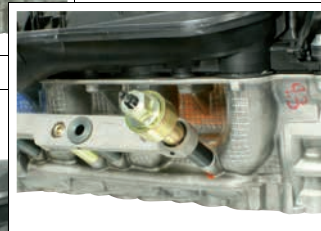
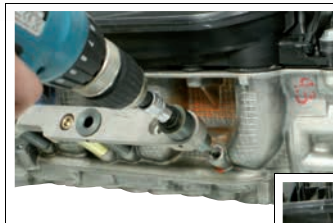
Glow Plug Tool Set, PSA 2.7 HDI and 3.0 HDI

Suitable for use on PSA 2.7 HDI and 3.0 HDI V6 Diesel engines as fitted to: Citroën C5, C6 [engine codes: DT17TED (UHZ), DT17TED4 (UHZ), DT20C]; Peugeot 407, 607 [engine codes: DT17TED (UHZ), DT17TED4 (UHZ)]; Jaguar S-Type, XJ [engine codes: 7B, 7G, AJ-V6D]; and Land Rover Discovery III, Range Rover Sport [engine code: 276DT].

The **KL-1383-24 K** glow plug tool set enables the accurate removal/drilling out of damaged glow plugs and recutting the original M8x1 thread. It also allows the user to repair a damaged M8x1 glow plug retaining thread by drilling it up to M10x1. Then, a new glow plug together with a threaded sleeve (M10x1 to M8x1) is screwed into the cylinder head. Impurities are prevented from entering the combustion chamber by using the suction device for cleaning tool that comes with the kit.

Scope of Delivery: KL-1383-24 K Glow Plug Tool Set, PSA 2.7 HDI and 3.0 HDI

Part No.	Description	Qty
KL-1383-241	Base Fitting Strip with Sleeves	1
KL-1383-246	Glow Plug Tube Puller	1
KL-1383-248	Cleaning Tool Set with Bellows	1
KL-1383-247	Suction Device for Cleaning Tool	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-4007-2510	Adaptor for Power Drill, 3/8", square	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2421	Guide Sleeve (long) for Milling Cutter	1
KL-1383-2422	Guide Sleeve (short) for Milling Cutter	1
KL-1383-2431	Guide Sleeve for Drill	1
KL-1383-2451	Pilot Drill, Ø 9.1mm for M10x1	1
KL-1383-2452	Screw Tap, M10x1	1
KL-1383-2441	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1383-2442	Screw Tap, M8x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-1383-2490	Plastic Storage Case	1





KL-1683-20 K

Glow Plug Tool Set, Fiat 2.3 JTD and 3.0 JTD

Suitable for use on Fiat 2.3 (F1A) and 3.0 (F1C, F30 DT) JTD/HDI Common Rail Diesel engines with an M8x1 glow plug retaining thread as fitted to Fiat Ducato, IVECO Daily, Citroën Jumper, Peugeot Boxer.

The **KL-1683-20 K** glow plug tool set enables the accurate removal/drilling out of damaged glow plugs and re-tapping the original M8x1 thread. It also allows the user to repair a damaged M8x1 glow plug retaining thread by drilling it up to M10x1. Then, a new glow plug together with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Technical Data:

For glow plug thread:	M8x1
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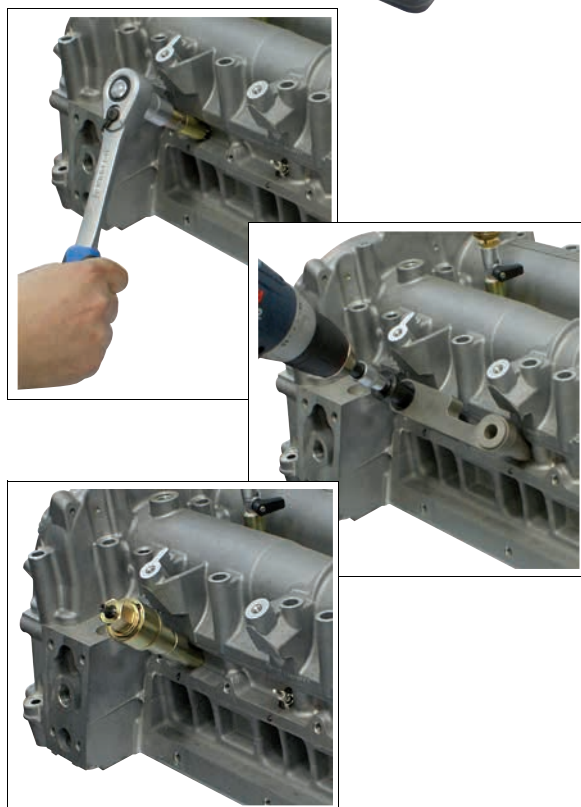
Scope of Delivery: KL-1683-20 K Glow Plug Tool Set, Fiat 2.3 JTD and 3.0 JTD

Part No.	Description	Qty
KL-1683-200 K	Glow Plug Tool Set, Fiat 2.3 JTD and 3.0 JTD	1
KL-1683-2031	Guide Sleeve for Milling Cutter	1
KL-1683-2032	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1683-2061	Pilot Drill, Ø 9.1mm for M10x1	1
KL-1683-2062	Screw Tap, M10x1	1
KL-1683-2063	Set of Threaded Sleeves, M8x1, 13mm long (10-pc.)	1
KL-0369-56 B	Compressed Air Adaptor for injector Nozzle Bore, CDI	1
KL-0126-221	Flexible Magnetic Lifter	1

Scope of Delivery: KL-1683-200 K Glow Plug Tool Set, Fiat 2.3 JTD and 3.0 JTD

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1683-2012	Centring Sleeve	1
KL-1683-201	Base Fitting Rail, 2.3 JTD	1
KL-1683-202	Base Fitting Rail, 3.0 JTD	1
KL-4007-2510	Adaptor for Power Drill, 3/8"	1
KL-1683-2041	Guide Sleeve for Drill	1
KL-1683-2051	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1683-2052	Screw Tap M8x1	1
KL-0369-306	Tool Holder with Square Socket, 2.4 - 5.5mm	1
KL-1683-207	Puller Kit for Glow Plug Body	1
KL-1683-2081	Guide Sleeve for Cleaning Tool	1
KL-1683-2082	Cleaning Tool, Ø 6.9/4.9mm	1
KL-1683-2090 A	Plastic Storage Case	1

6



KL-1683-21-1

Upgrade Kit for KL-1683-20 K

Suitable for use on Fiat, Alfa and Lancia 1.3 JTD (Euro 4) Common Rail Diesel engines having an M8x1 glow plug retaining thread, as fitted to:

Fiat 500/500C, Doblo, Doblo Cargo, Doblo Work Up, Fiorino, Grande Punto, Idea, Linea, Panda, Punto, Qubo, Punto Evo, Qubo, Strada Pick-up; Alfa MiTo and Lancia Musa, Ypsilon. (Engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000)

The **KL-1683-21-1** upgrade kit is designed to complement the glow plug tool set **KL-1683-20 K** so that the latter also covers the applications of the **KL-1683-21 K** glow plug tool set (Fiat 1.3 JTD).

Scope of Delivery: KL-1683-21-1 Upgrade Kit for KL-1683-20 K

Part No.	Description	Qty
KL-1683-211	Base Plate	1
KL-1683-2112	Guide Sleeve	2
KL-1683-212	Reamer, Ø 6.9/4.9mm	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



7 R - Combination Ratchet Spanner



KL-1683-21 K

Glow Plug Tool Set, Fiat 1.3 JTD

Suitable for use on Fiat, Alfa and Lancia 1.3 JTD (Euro 4) Common Rail Diesel engines having an M8x1 glow plug retaining thread, as fitted to: Fiat 500/500C, Doblo, Doblo Cargo, Doblo Work Up, Fiorino, Grande Punto, Idea, Linea, Panda, Punto, Punto Evo, Qubo, Strada Pick-up; Alfa MiTo and Lancia Musa, Ypsilon. (Engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000)

The **KL-1683-21 K** glow plug tool set enables the accurate removal/drilling out of damaged glow plugs and re-tapping the original M8x1 thread. It also allows the user to repair a damaged M8x1 glow plug retaining thread by drilling it up to M10x1. Then, a new glow plug together with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Technical Data:

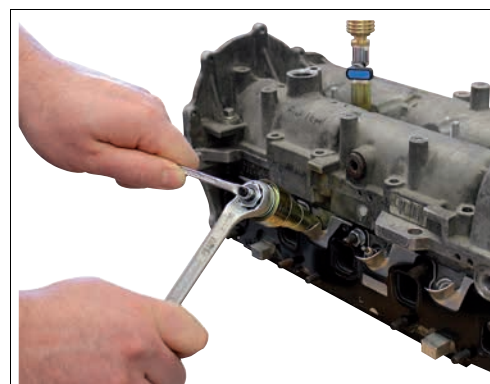
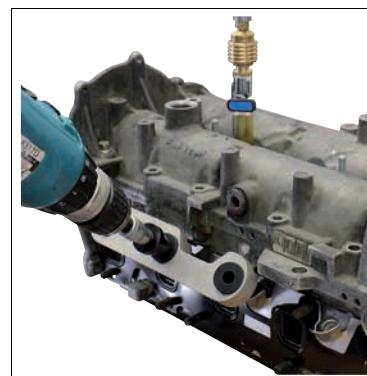
For glow plug thread:	M8x1
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Scope of Delivery: KL-1683-21 K Glow Plug Tool Set, Fiat 1.3 JTD

Part No.	Description	Qty
KL-1683-210 K	Glow Plug Tool Set, Fiat 1.3 JTD	1
KL-1683-2032	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1683-2031	Guide Sleeve for Milling Cutter	1
KL-1683-2061	Pilot Drill, Ø 9.1mm for M10	1
KL-1683-2062	Screw Tap, M10x1	1
KL-1683-2063	Set of Threaded Sleeves M8x1, 13mm long, (10-pc.)	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1

Scope of Delivery: KL-1683-210 K Glow Plug Tool Set, Fiat 1.3 JTD

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1683-2112	Guide Sleeve	2
KL-1683-211	Base Plate	1
KL-1683-2041	Guide Sleeve for Drill	1
KL-4007-2510	Adaptor for Power Drill 3/8"	1
KL-1683-2051	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1683-2052	Screw Tap, M8x1	1
KL-0369-306	Tool Holder with Square Socket	1
KL-1683-207	Puller Kit for Glow Plug Body	1
KL-1683-2081	Guide Sleeve for Reamer	1
KL-1683-212	Reamer, Ø 6.9/4.9mm	1
KL-0126-221	Flexible Magnetic Lifter	1
42 KEL 2,5	Hex Socket Key, Size (waf) 2.5mm	1
KL-1683-2090 A	Plastic Storage Case	1



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KL-1683-20-1

Upgrade Kit for KL-1683-21 K

Suitable for use on Fiat 2.3 (F1A) and 3.0 (F1C, F30 DT) JTD/HDI Common Rail Diesel engines having an M8x1 glow plug retaining thread as fitted to Fiat Ducato, IVECO Daily, Citroën Jumper, Peugeot Boxer.

The **KL-1683-20-1** is designed to upgrade the **KL-1683-21 K** glow plug tool set (Fiat 1.3 JTD) so that the latter also covers the applications of the **KL-1683-20 K** glow plug tool set (2.3 JTD and 3.0 JTD).

Scope of Delivery: KL-1683-20-1 Upgrade Kit for KL-1683-21 K

Part No.	Description	Qty
KL-1683-201	Base Fitting Strip, 2.3 JTD	1
KL-1683-202	Base Fitting Strip, 3.0 JTD	1
KL-1683-2012	Centring Sleeve	1
KL-1683-2082	Cleaning Tool, Ø 6.9/4.9mm	1





Technical Data:

Size (waf):	8, 9, 10, 12, 14, 16mm
Drive:	3/8"
Length:	85mm
Weight:	560g

KL-0369-900 KA

Set of Glow Plug/Spark Plug Sockets With Joint (8-Piece)

Universal application.

An indispensable tool set for the professional and damage-free removal and installation of spark plugs, glow plugs as well as 'PSG' glow plugs (pressure sensor glow plugs). The sockets are provided with a retaining rubber on the inside designed to prevent the spark plug/glow plug from dropping. The long and slim design of the jointed sockets allows even deep-seated glow plugs/spark plugs that are difficult to reach to be removed quickly and with ease.

Using a conventional socket risks damaging the 'PSG' glow plug during removal/installation. When removing/installing 'PSG' glow plugs, protective caps (included in the tool set) must always be used in order to protect the plug connector against dirt and electrostatic charging.

Scope of Delivery: KL-0369-900 KA Set of Glow Plug/Spark Plug Sockets

Part No.	Description	Qty
KL-0369-9001	Glow Plug Socket with Joint, Size (waf) 8mm, long	1
KL-0369-9002	Glow Plug Socket with Joint, Size (waf) 9mm, long	1
KL-0369-9003	Glow Plug Socket with Joint, Size (waf) 10mm, long	1
KL-0369-9004	Glow Plug Socket with Joint, Size (waf) 12mm, long	1
KL-0369-9005	Spark Plug Socket with Joint, Size (waf) 14mm, long	1
KL-0369-9006	Spark Plug Socket with Joint, Size (waf) 16mm, long	1
KL-0369-9007	Glow Plug Socket with Joint, Size (waf) 12mm, for 'PSG' Glow Plug	1
KL-0369-9007-10	Protective Cap for 'PSG' Glow Plug	5
KL-0369-9090 A	Plastic Storage Case	1



Note:

When removing/installing 'PSG' glow plugs, protective caps must always be used in order to protect the plug connector against dirt and electrostatic charging. These caps can be ordered separately as accessories (KL-0369-9007-10 Set of Protective Caps).

Technical Data:

Drive:	3/8"
Size (waf):	12mm

KL-0369-9007

Glow Plug Socket with Joint, Size (waf) 12mm, for 'PSG' Glow Plug

Applicable to VW-Audi, Seat, Škoda and Opel/Vauxhall Common Rail Diesel engines with 'PSG' glow plugs (BERU PSG001, PSG002, PSG004). For example, fitted to Audi A1 (8X), A3 (8V), A4 (8K), A5 (8T, 8F), A6 (4G), A7 (4G), A8 (4H), Q3 (8U), Q7 (4L); VW Beetle (5C), Golf Sportsvan (AM), Golf VI (5K, AJ), Golf VII (5G, BE, BA), Jetta III (1K), Jetta IV (162), Passat (3G), Polo (6R, 6C), Scirocco (137, 138), Touareg (7L), Touareg (7P), XL1; Seat Leon (5F); Škoda Fabia III (NJ), Octavia III (5E); Opel/Vauxhall Insignia (G06), Astra J (P10).

An indispensable tool for the professional and damage-free removal and installation of 'PSG' glow plugs (pressure sensor glow plugs). The socket is provided with a retaining rubber on the inside designed to prevent the 'PSG' glow plug from dropping. Using a conventional socket risks damaging the 'PSG' glow plug during removal/installation.



Technical Data:

Drive:	3/8"
Length:	63mm

KL-4013-2108

Socket, Size (waf) 8mm

Suitable for use on VW-Audi 2.0 TDI engines (engine code: BKP, etc.) as found in VW Passat 3C.

Designed to remove and install glow plugs. On 2.0 TDI engines with engine code BKP, etc., the glow plug is fitted on the top in the cylinder head under the valve cover. For this type of glow plugs, a conventional articulated socket cannot be used as it will touch the camshaft.



Technical Data:

Drive:	3/8"
Length:	63mm

KL-4013-2110

Socket, Size (waf) 10mm

Suitable for use on 1.5 dCi engines (engine code: K9K) fitted to Renault, Dacia, Nissan.

Designed to remove and install glow plugs.

Accessories (on demand):

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm

4549-05 CODE:1545140

Torque Wrench TORCOFIX K 3/8" 5-50Nm



KL-0369-201 A

Glow Plug Removal Tool, Mercedes

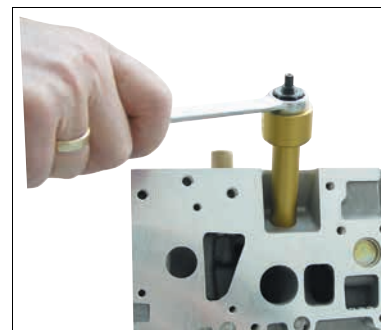
Universally applicable to Diesel engines having an M10x1 glow plug retaining thread and glow plugs with size (waf) of 10mm.

The ideal tool for, e.g., Mercedes CDI engines OM611, OM612, OM613, OM646*, OM647 and OM648 etc. (*except OM646 EVO)

For extracting glow plugs that have been loosened, but are still stuck in their bore holes.

Technical Data:

Length:	135mm
Drive:	waf 19mm



KL-0132-53 K

Thread Repair Kit for Glow Plug Thread M8x1

For example, applicable to VW-Audi, BMW, Mercedes, Nissan, Renault etc.

If the thread in the cylinder head is damaged, special threaded inserts (internal thread M8x1) can be inserted with the aid of the thread repair kit KL-0132-53 K.

Scope of Delivery:

KL-0132-53 K Thread Repair Kit for Glow Plug Thread M8x1

Part No.	Description	Qty
KL-0132-5301	Thread Cleaning Tool, M8x1	1
KL-0132-5304	Threaded Inserts, M8x1, 10mm long (10 pieces)	1
KL-0132-5302	Special Drill for Threaded Inserts, M8x1	1
KL-0132-5303	Special Tap for Threaded Inserts, M8x1	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



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KL-0132-51 K

Thread Repair Kit for Glow Plug Thread M10x1

For example, applicable to VW-Audi, BMW, Mercedes, Nissan, Renault etc.

If the thread in the cylinder head is damaged, special threaded inserts (internal thread M10x1) can be inserted with the aid of the thread repair kit KL-0132-51 K.

Technical Data:

Size (waf):	8, 9, 10, 12, 14, 16mm
Drive:	3/8"
Length:	80mm
Weight:	560g

Scope of Delivery:

KL-0132-51 K Thread Repair Kit for glow plug thread M10x1

Part No.	Description	Qty
KL-0132-511-1	Thread Cleaning Tool, M10x1	1
KL-0132-512 A	Threaded Inserts, M10x1, Length 10mm (10 pieces)	1
KL-0132-513-1	Special Drill for Threaded Inserts, M10x1	1
KL-0132-514-1	Special Tap for Threaded Inserts, M10x1	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1





KL-0132-54 K Thread Repair Kit for Glow Plug Thread M10x1.25

This tool set allows for the fast and easy cleaning or repair of glow plug threads on aluminium cylinder heads.

Dirty threads can be cleaned and re-tapped using our thread cleaning tool. Damaged threads can be drilled up with the aid of the special drill. Then, a new M12x1.25 thread is cut for retaining threaded inserts with an M10x1.25 internal thread.

Technical Data:

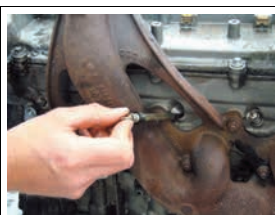
Drive:	3/8"
For glow plug thread:	M10x1.25

Scope of Delivery:

KL-0132-54 K Thread Repair Kit for Glow Plug Thread M10x1.25

Part No.	Description	Qty
KL-0132-5401	Thread Cleaning Tool, M10x1.25	1
KL-0132-5402	Special Drill for Threaded Inserts, M10x1.25	1
KL-0132-5403	Special Tap for Threaded Inserts, M10x1.25	1
KL-0132-5404	Threaded Inserts, M10x1.25, 10mm long (10 pcs)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1

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KL-0132-5 K Thread Repair Kit for Glow Plug Thread M12x1.25

For example, applicable to VW-Audi, Mercedes, Toyota etc.

If the thread in the cylinder head is damaged, special threaded inserts (internal thread M12x1.25) can be inserted with the aid of the thread repair kit **KL-0132-5 K**.

Scope of Delivery:

KL-0132-5 K Thread Repair Kit for Glow Plug Thread M12x1.25

Part No.	Description	Qty
KL-0132-501-1	Special Drill for Threaded Inserts, M12x1.25	1
KL-0132-502-1	Special Tap for Threaded Inserts, M12x1.25	1
KL-0132-412	Threaded Inserts, 12x1.25, Length 11mm (10 pieces)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



KL-0132-41 K Thread Repair Kit for Spark Plug Thread M12x1.25

This thread repair kit is intended for the repair of spark plug threads on aluminium cylinder heads. Using the special tap that comes with the kit, the damaged thread can be drilled out and a new M14x1.25 thread can be recut at the same time to retain threaded inserts with an internal thread of M12x1.25.

Scope of Delivery:

KL-0132-41 K Thread Repair Kit for Spark Plug Thread M12x1.25

Part No.	Description	Qty
KL-0132-411-1	Special Tap (for M12x1.25)	1
KL-0132-412	Threaded Inserts, M12x1.25, Length 11mm (10 pieces)	1
KL-0132-413	Threaded Inserts, M12x1.25, Length 17.5mm (10 pieces)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1

KL-0132-42 K

Thread Repair Kit for Spark Plug Thread M14x1.25

This thread repair kit is intended for the repair of spark plug threads on aluminium cylinder heads.

Using the special tap that comes with the kit, the damaged thread can be drilled out and a new M16x1.25 thread can be recut at the same time for retaining threaded inserts with an interna thread of M14x1.25.

Scope of Delivery:

KL-0132-42 K Thread Repair Kit for Spark Plug Thread M14x1.25

Part No.	Description	Qty
KL-0132-421-1	Special Tap for M14x1.25	1
KL-0132-422	Threaded Inserts, M14x1.25, Length 11mm (10 pieces)	1
KL-0132-423	Threaded Inserts, M14x1.25, Length 17.5mm (10 pieces)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



KL-0132-590 KA

Thread Repair Kit

Applicable to glow plug threads M10x1 and M12x1.25 as well as for oil sump plug thread M14x1.5 and M16x1.5; also suitable for injector nozzle fixing screw thread M6.

This tool set is indispensable for the quick and easy cleaning/repair of threads on aluminium cylinder heads and aluminium oil sumps.

Field of application: Aluminium Cylinder Head:

Glow plug thread: The dirty thread M10x1 is cleaned and recut using the thread cleaning tool.

The damaged thread is drilled up by means of the special drill. Then, with the aid of the special tap, a new thread with M12x1 or M14x1.25 is cut to retain the threaded inserts with an internal thread of M10x1 or M12x1.25.

Injector nozzle fixing screw thread: The M6 threaded inserts are screwed into the injector nozzle fixing screw thread that has been drilled up to M8x1 for the repair.

Field of application: Aluminium Oil Sump:

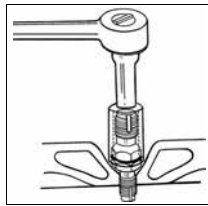
With the aid of the special tap (M14x1.5 or M16x1.5), the old thread is drilled out and a new thread is being cut at the same time to retain the sump screw plug.

Scope of Delivery:

KL-0132-590 KA Thread Repair Kit

Part No.	Description	Qty
KL-0132-583	Set of Threaded Sleeves, M6, 20mm long (10-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" Drive	1
KL-0132-481-1	Special Tap for M14x1.5	1
KL-0132-482	Set of Sump Screw Plugs (5-pc.)	1
KL-0132-484	Set of Sealing Rings (Aluminium), Ø 15x20x1.3mm (5-pc.)	1
KL-0132-4901	Special Tap for M16x1.5	1
KL-0132-4902	Set of Sump Screw Plugs, M17x1.5 (5-pc.)	1
KL-0132-4903	Set of Sealing Rings (Aluminium), Ø 24x17.1x1.5mm (5-pc.)	1
KL-0132-501-1	Special Drill for Threaded Inserts, M12x1.25	1
KL-0132-502-1	Special Tap for Threaded Inserts, M12x1.25	1
KL-0132-412	Threaded Inserts, M12x1.25x11 (10 units)	1
KL-0132-511-1	Thread Cleaning Tool, M10x1	1
KL-0132-512 A	Threaded Inserts, M10x1x10 (10 units)	1
KL-0132-513-1	Special Drill for Threaded Inserts, M10x1	1
KL-0132-514-1	Special Tap for Threaded Inserts, M10x1	1
KL-0132-5990	Plastic Storage Cse	1

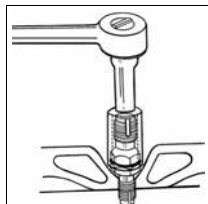




KL-0127-2206

Screw Tap

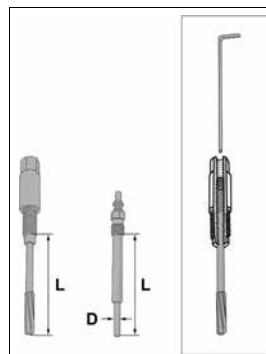
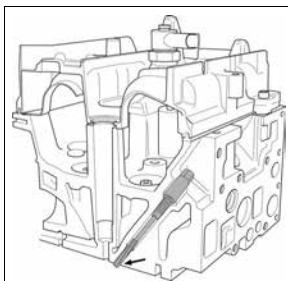
Designed to clean glow plug threads with dimensions M10x1.0 and M12x1.25.



KL-0127-2207

Screw Tap

Designed to clean spark plug threads with dimensions M14x1.25 and M18x1.5.



KL-0369-25 KA

(Patented)

Reamer Set (adjustable)

for Glow Plug Aperture, in a Plastic Storage Case

Universally suitable for use on Diesel engines with either an M8x1, M9x1 or M10x1 glow plug thread. The ideal tool set for BMW 1.6 and 2.0 Diesel engines. For example, fitted to BMW 1 Series (E81/E82/E87/E88), 3 Series (E90/E91/E92/E93), 5 Series (E60/E61/F10), X1 (E84), X3 (E83); MiniHatch (R56), Countryman (R60), Clubman (R55), Coupé (R58).

This tool set is designed to clean glow plug apertures and glow plug retaining threads. Thanks to the possibility to combine the different holders (glow plug retaining threads) with the necessary reamers (glow plug aperture Ø) and to precisely adjust the length of the reamers as needed, this tool set is virtually universal in its field of application, since the reamers can always be accurately adapted to the respective engine type. Coking deposits are carefully and effectively removed from glow plug retaining threads and glow plug apertures - thanks to the special design of the tool and the cleaning groove in the holder.

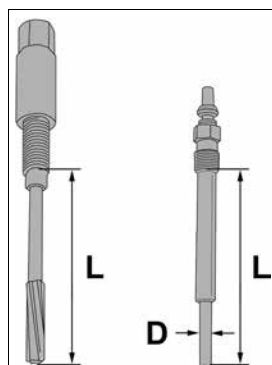
Technical Data:

Weight:	400g
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Scope of Delivery: KL-0369-25 KA Reamer Set (adjustable) for Glow Plug Aperture

Part No.	Description	Qty
KL-0369-2510 A	Holder, M8x1, with Set Screw	1
KL-0369-2610 A	Holder, M9x1, with Set Screw	1
KL-0369-2710 A	Holder, M10x1, with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm (Glow plug Ø D = Ø 4.0mm)	1
KL-0369-2522 A	Reamer, Ø 5.2mm (Glow plug Ø D = Ø 4.4mm)	1
KL-0369-2732 A	Reamer, Ø 5.8mm (Glow plug Ø D = Ø 5.0mm)	1
KL-0369-2590	Plastic Storage Case	1

(Engine codes: N47; N47 C16K1; N47 C16U1; N47 C20K1; N47 C20U1; N47 D20A; N47 D20C; N47 D20D; N47 D20K0; N47 D20K1; N47 D20O0; N47 D20O1; N47 D20U0; N47 D20U1; N47S D20B; N47S D20D; N47S D20T0; N47T D20K1; N47T D20O1; N47T D20U1)



KL-0369-251 A

(Patented)

Reamer, Ø 4.8mm, with Holder, M8x1 (adjustable)

Suitable for use on the following Diesel engines: Fiat, Alfa Romeo, Lancia 2.3 JTD (F1AE0481C), 1.3 D/JTD (188A9.000, 169 A1.000, 188 A8.000, 188 A9.000, 199 A2.000, 199 A3.000, 199 A9.000, 199 B1.000, 199 B4.000, 223 A9.000, 263 A2.000); Opel/Vauxhall 1.3 (Z13DT, A13DTC, D13A, Y13DT, Z13DT, Z13DTH, Z13DTJ); Mercedes (OM642, OM640); Smart (OM639); Ford 1.3 TDCi (FD4); Volvo 2.4 D (D 5244 T2); VW AG 2.0 TDI (AZV, BKD, BDJ); PSA 2.7 HDI (DT 17) and Suzuki 1.3 DDiS (Z13DT, D13A, Z13DTJ).

Scope of Delivery: KL-0369-251 A Reamer, Ø 4.8 mm, with Holder, M8x1

Part No.	Description	Qty
KL-0369-2510 A	Holder, M8x1, with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm	1

Technical Data:

Length L:	70-108mm
D measured (at the glow plug):	Ø 4.0mm

KL-0369-252 A (Patented)

Reamer, Ø 5.2mm, with Holder, M8x1 (adjustable)

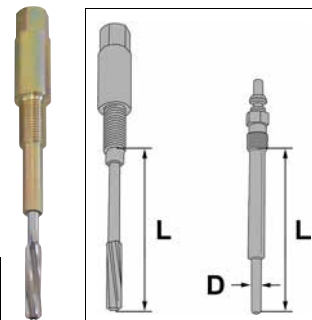
For example, suitable for use on the following Diesel engines: PSA 1.4 HDI (DV4), PSA 1.6 HDI (DV6), PSA 2.2 HDI (DW12), Ford 1.6 (F6J).

Scope of Delivery: KL-0369-252 A Reamer, Ø 5.2mm, with Holder, M8x1

Part No.	Description	Qty
KL-0369-2510 A	Holder, M8x1, with Set Screw	1
KL-0369-2522 A	Reamer, Ø 5.2mm	1

Technical Data:

Length L:	50-83mm
D measured (at glow plug):	Ø 4.4mm



KL-0369-261 A (Patented)

Reamer, Ø 4.8mm, with Holder, M9x1 (adjustable)

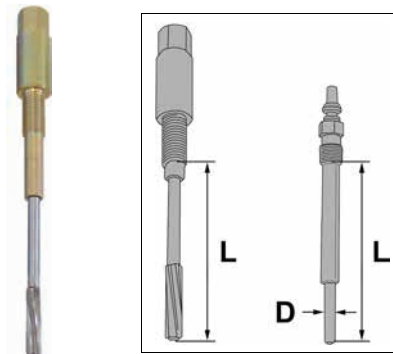
For example, suitable for use on the following Diesel engines: Alfa Romeo, Fiat, Lancia, Opel/Vauxhall, Saab 1.6, 1.9, 2.0 and 2.4. (Engine codes: 192 A5.000, 198 A2.000, 198 A3.000, 198 A5.000, 198 A6.000, 198 A8.000, 250 A1.000, 263 A1.000, 263 A3.000, 263 A4.000, 350 A2.000, 350 A2.000, 350 A3.000, 841 G.000, 841 H.000, 844 A1.000, 844 A2.000, 844 A2.000, 937 A5.000, 939 A2.000, 939 A3.000, 939 A8.000, 939 B3.000, 939 B4.000, 939 B5.000, 940 A3.000, 940 A4.000, 940 A5.000, 955 A3.000, 955 A4.000, A16FD, A16FDH, A16FDL, A19DTR, A20ATJ, A20DT, A20DTC, A20DTH, A20DTL, A20DTR, D20AA, Y20DTJ, Z19DTH, Z19DTR, Z20DTJ)

Scope of Delivery: KL-0369-261 A Reamer, Ø 4.8mm, with Holder, M9x1

Part No.	Description	Qty
KL-0369-2610 A	Holder, M9x1 with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm	1

Technical Data:

Length L:	70-108mm
D measured (at glow plug):	Ø 4.0mm



KL-0369-271 A (Patented)

Reamer, Ø 4.8mm, with Holder, M10x1 (adjustable)

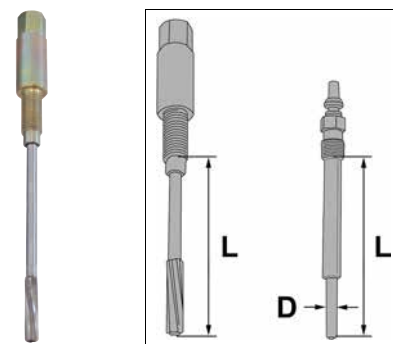
For example, suitable for use on the following VW-Audi Diesel engines: 2.7 TDI V6 (BPP, BSG), 3.0 TDI V6 (BKN, BKS, BMK, BNG, BUN, BUG); and BMW Diesel engines: 1.6 and 2.0. For example, fitted to BMW 1 Series (E81/E82/E87/E88), 3 Series (E90/E91/E92/E93), 5 Series (E60/E61/F10), X1 (E84), X3 (E83); MiniHatch (R56), Countryman (R60), Clubman (R55), Coupé (R58). (Engine codes: N47; N47 C16K1; N47 C16U1; N47 C20K1; N47 C20U1; N47 D20A; N47 D20C; N47 D20D; N47 D20K0; N47 D20K1; N47 D20O0; N47 D20O1; N47 D20U0; N47 D20U1; N47S D20B; N47S D20D; N47S D20T0; N47T D20K1; N47T D20O1; N47T D20U1)

Scope of Delivery: KL-0369-271 A Reamer, Ø 4.8mm, with Holder, M10x1

Part No.	Description	Qty
KL-0369-2710 A	Holder, M10x1, with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm	1

Technical Data:

Length L:	60-105mm
D measured (at glow plug):	Ø 4.0mm



KL-0369-272 A (Patented)

Reamer, Ø 5.2mm, with Holder, M10x1 (adjustable)

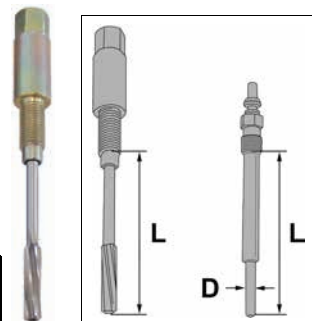
Suitable for use on the following Diesel engines: PSA 2.0 HDI (DW10 [110 bhp, 135 bhp]).

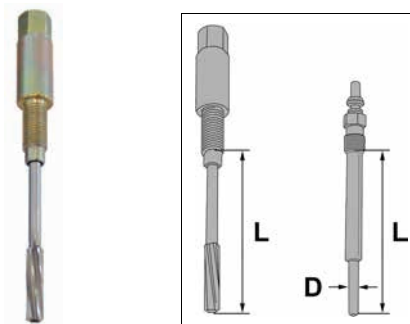
Scope of Delivery: KL-0369-272 A Reamer, Ø 5.2mm, with Holder, M10x1

Part No.	Description	Qty
KL-0369-2710 A	Holder, M10x1 with Set Screw	1
KL-0369-2522 A	Reamer, Ø 5.2mm	1

Technical Data:

Length L:	41-83mm
D measured (at glow plug):	Ø 4.4mm





Technical Data:

Length L:	40-85mm
D measured (at glow plug):	Ø 5.0mm

KL-0369-273 A

(Patented)

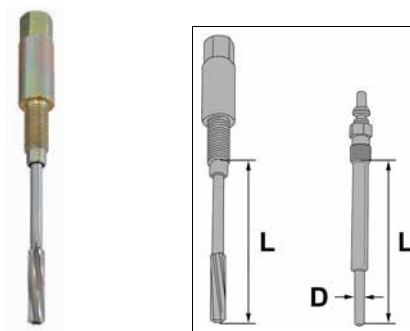
Reamer, Ø 5.8mm, with Holder, M10x1 (adjustable)

For example, suitable for use on the following Diesel engines: VW-Audi 2.5 TDI V6 (AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC, AFB), 3.0 TDI V6 (ASB); Mercedes CDI (OM611, OM612, OM613, OM646, OM647, OM648, OM668), Alfa Romeo, BMW, Fiat, Lancia 1.9 JTD (182B4.000), 2.4 JTD (839A5.000).

Scope of Delivery:

KL-0369-273 A Reamer, Ø 5.8mm, with Holder, M10x1 (adjustable)

Part No.	Description	Qty
KL-0369-2710 A	Holder, M10x1, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1



Technical Data:

Length L:	40-85mm
D measured (at glow plug):	Ø 5.0mm

KL-0369-274 A

(Patented)

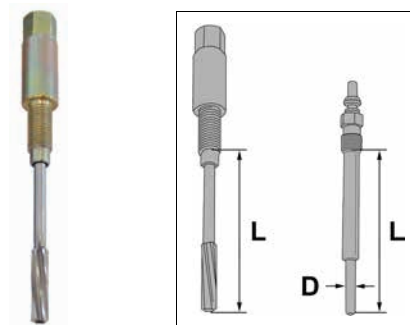
Reamer, Ø 5.8mm, with Holder, M10x1 (adjustable)

For example, suitable for use on the following Diesel engines: Alfa Romeo, Fiat, Lancia 1.9 JTD (AR32302, AR37101, 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188B2.000, 182B4.000, 192A3.000, 192A9.000, 192A1.000, 223A7.000, 937A2.000, 937A7.000, 939A1.000, 939A7.000) and 2.4 JTD (AR32501, 185A6.000, 838A8.000, 839A5.000, 839A6.000, 841C.000, 841G.000); Vauxhall/Opel 1.9 CDTi (Z19DT).

Scope of Delivery:

KL-0369-274 A Reamer, Ø 5.8mm, with Holder, M10x1 (adjustable)

Part No.	Description	Qty
KL-0369-2740 A	Holder, M10x1, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1



Technical Data:

Length L:	40-85mm
D measured (at glow plug):	Ø 5.0mm

KL-0369-281 A

(Patented)

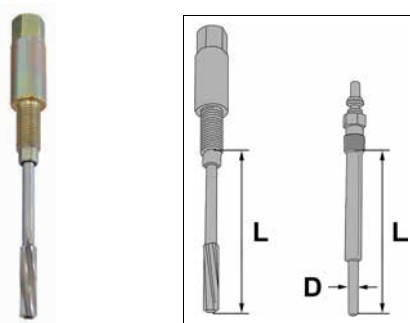
Reamer, Ø 5.8mm, with Holder, M10x1.25 (adjustable)

Suitable for use on the following Diesel engines as found in Opel/Vauxhall (4EE-2, A17DTJ, A17DTC, A17DTE, A17DTS, Y17DT, Y17DTL, Z17DTL, Y30DT, Z30DT); Ford (WL, WL-T); Honda (D4FA); Hyundai (D4FA); Kia (R2); Mini (1ND); Mazda (RF46, RF-N, RF-CX, RF OHC, MD25TI); Nissan (CD23, LD23, TD27T); Toyota (1ND, 1ND-TV).

Scope of Delivery:

KL-0369-281 A Reamer, Ø 5.8mm, with Holder, M10x1.25 (adjustable)

Part No.	Description	Qty
KL-0369-2810 A	Holder, M10x1.25, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1



Technical Data:

Length L:	40-85mm
D measured (at glow plug):	Ø 5.0mm

KL-0369-291 A

(Patented)

Reamer, Ø 5.8mm, with Holder, M12x1.25 (adjustable)

Suitable for use on the following Diesel engines: Opel/Vauxhall 2.5 D/TD (8140.27.2500; 8140.27.2510; S9U 714; S84 770; 8140.67.2500; 8140.67.2550; 8140.67.2580; S8U 750; S8U 758; S8U 752; S8U 770; S8U 780; S8U 782) and Renault 1.9 D (F8Q 620; F8Q 624; F8Q 640; F8Q 682).

Scope of Delivery:

KL-0369-291 A Reamer, Ø 5.8mm, with Holder, M12x1.25 (adjustable)

Part No.	Description	Qty
KL-0369-2910 A	Holder, M12x1.25, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1

KL-0369-15

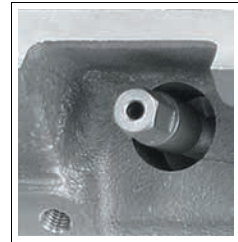
Reamer

Suitable for use on the Mercedes CDI engines OM611, OM612, OM613, OM628, OM646*, OM647, OM648 etc. (*not suitable for OM646 EVO) and Smart CDI engine (R660) with M10x1 glow plug thread.

Used for cleaning the bore hole between the glow element and the combustion chamber. Important if the engine is difficult to start.

Technical Data:

Drive:	10mm
Reamer Ø:	6mm



KL-0369-13

Reamer for Glow Plug Channel

Suitable for use on the Mercedes 4-valve engines OM604, OM605, OM606 with M12x1.25 glow plug thread size.

This tool is designed to ream and clean the bore between the glow element and the pre-combustion chamber.

Technical Data:

Drive:	13mm
Reamer Ø:	7mm



KL-0369-24

Glow Plug Bore Cleaning Brush Set

Universally suitable.

for Diesel engines having a glow plug bore thread M8x1, M10x1 or M10x1.25 and a glow plug channel Ø of 4mm, 4.4mm or 5mm.

For cleaning the glow plug bore thread and the small aperture leading to the combustion chamber.



Scope of Delivery: KL-0369-24 Glow Plug Bore Cleaning Brush Set

Part No.	Description	Qty
KL-0369-2448	Glow Plug Bore Cleaning Brush, Ø 4.8mm	1
KL-0369-2452	Glow Plug Bore Cleaning Brush, Ø 5.2mm	1
KL-0369-2458	Glow Plug Bore Cleaning Brush, Ø 5.8mm	1
KL-0369-2468	Glow Plug Bore Cleaning Brush, Ø 6.8mm	1
KL-0369-2485	Glow Plug Bore Cleaning Brush, Ø 8.5mm	1

6

KL-0369-18

Glow Plug Connector Pliers (Straight Design)

For example, suitable for use on Mercedes, BMW, VW-Audi etc.

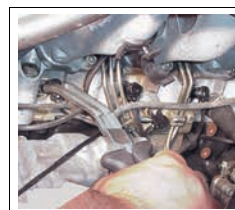
Designed to remove stubborn and hard-to-reach glow plug connectors installed on the latest-generation engines.



KL-0369-19

Glow Plug Connector Pliers (Angled Design)

Designed to remove stubborn and hard-to-reach glow plug connectors as installed on the latest-generation engines.



KL-0193-10 A

Pliers for Protection Cap

Suitable for use on VW-Audi, Seat, Škoda vehicles equipped with 2.0 Common Rail Diesel engines. (Engine codes: DBAA, CBBB, CBAB, CBBA, CDBD, CBD, CBAC, CBDA)

Intended for the removal of stuck and hard-to-reach glow plug connectors.





KL-0127-800 K

Ignition Coil Puller Set (4-piece)

Suitable for use on VW/Audi petrol injection engines.

These tools are used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

Scope of Delivery:

KL-0127-800 K Ignition Coil Puller Set (4-piece)

Part No.	Description	Qty
KL-0127-81	Ignition Coil Puller	1
KL-0127-82	Ignition Coil Puller	1
KL-0127-83	Ignition Coil Puller	1
KL-0127-84	Ignition Coil Puller	1
KL-0127-8090	Plastic Storage Case	1

KL-0127-81 Ignition Coil Puller

Suitable for use on 1.4 and 1.6 16V petrol injection engines.

Engine codes: AZD, BCA, BCB; e.g. in VW Bora, Golf, New Beetle etc.

This tool is used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

Technical Data:

Length:	137mm
Weight:	145g
Opening width:	26.3mm

KL-0127-82 Ignition Coil Puller

Suitable for use on 6-cylinder (4V) and 5-cylinder petrol injection engines as found in VW Bora, Golf, Passat, Sharan, Touareg, Phaeton and T5.

This tool is used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

Technical Data:

Length:	134mm
Weight:	130g
Opening width:	18mm

KL-0127-83 Ignition Coil Puller

Suitable for use on 1.8 Turbo petrol injection engines.

Engine codes: ARZ, AQA, AUM, AUQ; e.g. Audi A3, TT and VW Bora, Golf etc.

This tool is used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

Technical Data:

Length:	50mm
Weight:	85g
Opening width:	38mm

KL-0127-84 Ignition Coil Puller

Suitable for use on 8- and 12-cylinder petrol injection engines as found in VW Passat and Phaeton.

This tool is used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

Technical Data:

Length:	118mm
Weight:	134g
Opening width:	35.5mm

6

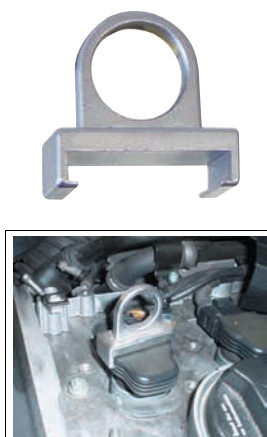
KL-0127-81



KL-0127-82



KL-0127-83



KL-0127-84



KL-0127-86

Ignition Coil Puller

Suitable for use on VW-Audi, Seat and Škoda 1.2, 1.4, 1.8, as well as 2.0 FSI / TSI / TFSI petrol engines as fitted to: VW Beetle (5C), Eos (1F), Golf SV/Sportsvan (AM), Golf VI (5K, AJ), Golf VII (5G, BE, BA), Jetta (162), Passat VI (36), Passat CC (357), Polo V (6R, 6C), Sharan (7N), Tiguan (5N); Audi A1 (8X), A3 (8P), Q3 (8U), TT (8J); Seat Alhambra (71), Leon (5F); Škoda Octavia II (1Z), Octavia III (5E), Superb II (3T) etc. (Engine codes: CHPA, CHZD, CJSB, CJXB, CJXC, CJZA, CJZB, CMBA, CPTA, CPVA, CPVB, CPWA, CUKA, CUKB, CWVA, CXCA, CXSA, CXSB, CYVA, CYVB, CZCA, CZDA, CZEa, CCZA, CHPA, CJSB, CJZA, CJZB, CMBA, CPTA, CPVA, CPVB, CPWA, CXSA, CYVA, CYVB, CZDA, CZEa)

This tool is designed to remove and install ignition coils with final output stage.



KL-0127-41

Spark Plug Socket, Size (waf) 14mm

Suitable for use on Renault Clio 1.2 16V; Twingo 1.2 16V etc.

Technical Data:

Size (waf):	14mm
Drive:	3/8"
Length:	230mm



KL-0127-42

Jointed Spark Plug Socket, Size (waf) 14mm

Suitable for Renault Clio 1.2 16V; Twingo 1.2 16V etc.

Technical Data:

Length:	80mm
Socket size:	14mm
Drive:	3/8"
Weight:	100g



KL-0127-43

Spark Plug Socket, Size (waf) 14mm

Suitable for use on BMW 3 Series (E90 [N53B]); Citroën C5 (HPI); Peugeot 207 (1.6 16V), 406 (HPI); Mini One (1.4) etc.

Technical Data:

Length:	90mm
Size (waf):	14mm
Drive:	3/8"



KL-0127-44

Spark Plug Socket, Size (waf) 14mm

Suitable for Citroën C5 (HPI); Peugeot 207, 308 (1.6 16V); 406 (HPI); Mini One 1.4 etc.

Technical Data:

Length:	250mm
Size (waf):	14mm
Drive:	3/8"



Accessories (on demand):

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm

4549-05 CODE:1545140 - Torque Wrench TORCOFIX K 3/8" 5-50Nm





Technical Data:

Length:	92mm
Size (waf):	14mm
Drive:	3/8"

KL-0127-48

Spark Plug Socket with Joint, Size (waf) 14mm

Universally suitable for use on spark plugs having a 14 mm hex and bi-hex profile.

Essential tool for BMW vehicles equipped with an N43 engine; e.g. BMW 1 Series (E81 / E87 [N43B]), 3 Series (E90 [N43B]) and 5 Series (E60 [N43B]); etc.

This tool is designed for the removal and installation of spark plugs having a bi-hex profile size (waf) of 14mm. The swivel head allows for easy access also to spark plugs that are difficult to reach. The socket features a rubber insert ensuring firm grip and safe retention of the spark plug, thus facilitating greatly their installation.



3/8"

KL-0127-45

Spark Plug Socket, Size (waf) 16mm

Technical Data:

Length:	90mm
Size (waf):	16mm
Drive:	3/8"



3/8"

KL-0127-46

Spark Plug Socket, Size (waf) 16mm

Technical Data:

Length:	250mm
Size (waf):	16mm
Drive:	3/8"

6



3/8"

KL-4015-2016

Spark Plug Socket, Size (waf) 16mm

Technical Data:

Length:	65mm
Size (waf):	16mm
Drive:	3/8"



3/8"

KL-4015-2021

Spark Plug Socket, Size (waf) 21mm

Technical Data:

Length:	65mm
Size (waf):	21mm
Drive:	3/8"

Accessories (on demand):

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm



4549-05 CODE:1545140 - Torque Wrench TORCOFIX K 3/8" 5-50Nm



KL-0127-7

Spark Plug Connector Pliers

Applicable to VW, Audi, Opel/Vauxhall, Porsche etc.

Forged and with offset jaws for pulling off and putting on spark plug connectors, specifically designed for heat protection connectors.



KL-0127-5

Spark Plug Connector Pliers

Applicable to virtually any vehicle.

With 30° angled sleeve jaws, designed for the careful and safe removal of spark plug connectors having a silicon coating.



KL-0127-71

Spark Plug Connector Pliers

Universal application. The ideal tool for Ford vehicles.

Forged and with offset gripping jaws (curved at 87°) for pulling off or putting on spark plug connectors, specifically designed for heat protection connectors.

Technical Data:

Length:	250mm
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KL-0127-6

Spark Plug Connector Pliers

Applicable to virtually any vehicle.

The pliers feature 10° angled, long clamping jaws. Grooves in the jaws prevent the pliers from slipping off. Long pliers shanks enable also deep-seated spark plug connectors to be pulled off, and additionally offer extended safety distance to the hot engine.





KL-0127-92

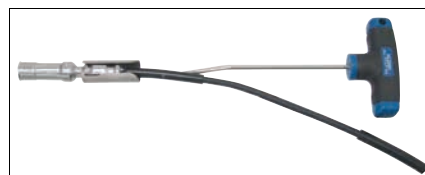
Spark Plug Connector Puller

Applicable to metal spark plug connectors on VW-Audi, Mercedes, Smart etc.

Indispensable tool for removing and installing hard-to-reach spark plug connectors.

Technical Data:

Length:	300mm
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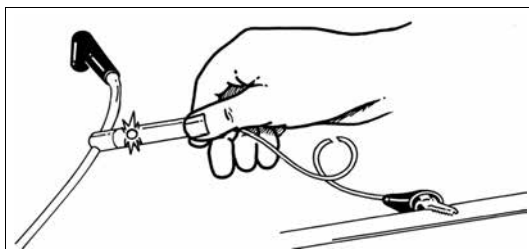
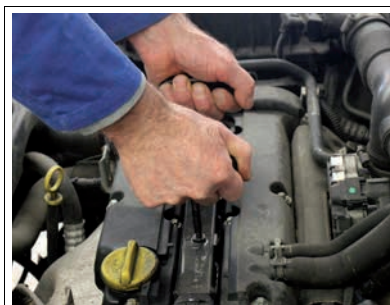
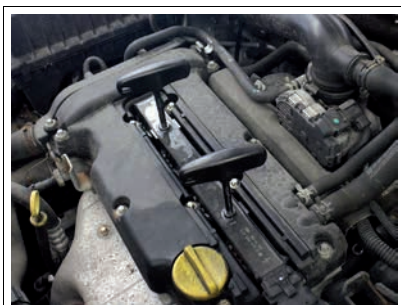


KL-0127-85

Ignition Module Remover (2-pc.)

Suitable for use on Opel/Vauxhall 3- and 4-cylinder fuel injection petrol engines as installed in: Opel/Vauxhall Agila-A, Astra-F, Astra-G, Astra-H, Astra-J, Calibra, Combo, Corsa-B, Corsa-C, Corsa-D, Frontera-A, Frontera-B, Insignia, Meriva-A, Meriva-B, Omega-B, Signum, Tigra-A, Tigra-B, Vectra-B, Vectra-C, Zafira-A, Zafira-B. (Engine codes: LDD, LDE, LLU, LUH, LUJ, 2HO, A10XEP, A14NEL, A14NET, A14XER, X14NZ, X14SZ, X14XE, A16LET, A16XER, X16SZR, X16XE, X16XEL, A18XER, X18XE, X20SE, X20XEV, X22SE, X22XE, Y22SE, Z10XEP, Z12XE, Z12XEP, Z14XE, Z14XEL, Z14XEP, Z16LEL, Z16LER, Z16LET, Z16XE, Z16XER, Z16YNG, Z18XE, Z18XER, 20LEH, Z20LER, C22SEL)

Designed to remove/put back in place the ignition module found on Opel/Vauxhall fuel injection petrol engines.



KL-0127-39

Ignition Wire Tester

Allows you to quickly locate faulty ignition wires.

In order to check the ignition wire, the tester is placed directly on the insulation. Enables testing the ignition wire without having to pierce the insulation. Thus, contact with the current-carrying lead is eliminated. Light flashes indicate correct functioning of the ignition wire.

Technical Data:

Weight:	85g
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KL-0180-106 K

Locking Tool Set

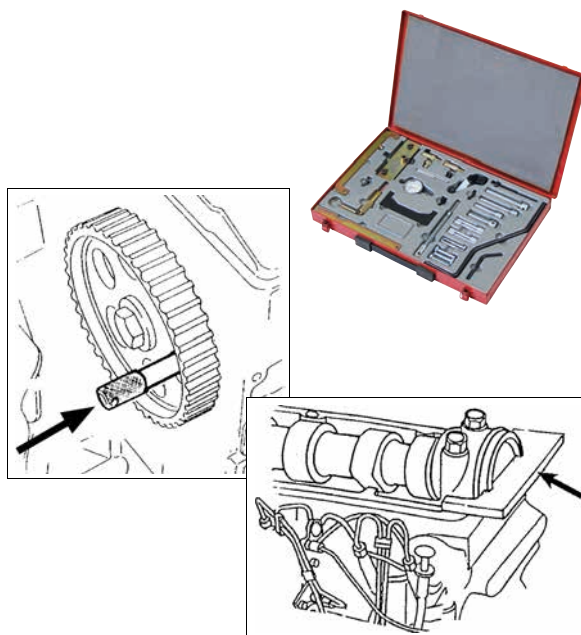
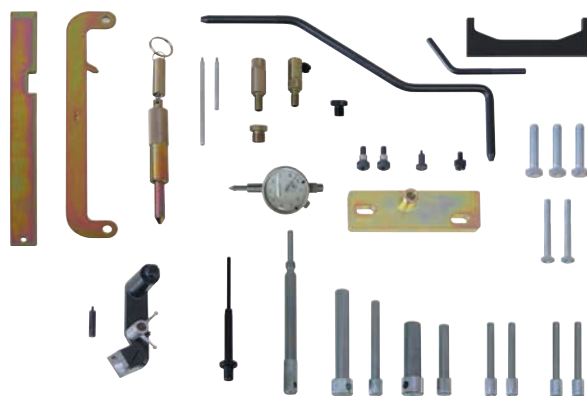
Universally applicable, e.g. to:

- Audi: 1.9 ID / TDI (1Y, 1Z, AAZ, AHU, AFN, AFF & AVG engines)
- Citroën/Peugeot: 1.4 D, 1.7 D / TD, 1.8 D / TD, 1.9 D / TD, 2.1 and 2.2 I TD (TUD & XUD engines)
- Fiat/FSO: 1.9 D / TD (PSA engines)
- Ford: 1.6 D, 1.8 D / TD (88-02), 1.9 TDi (-00); LDV /Mazda: (PSA & Ford engines)
- Rover: Metro, 114D, 218/418SD, Maestro & Montego 2.0 D
- Seat: 1.3 D, 1.4 D, 1.7 Sdi, 1.9 D Turbo, 1.9 SDi / TDi (MN, 1W, AAZ, AEY, AFN, AHU, AKW & AVG engines)
- Škoda: Felicia 1.9 D (AEF engine)
- Vauxhall/Opel: 1.6 D, 1.7 D / DR / DTL+ Isuzu engines 1.5 D - 3.1 TD
- Volkswagen: 1.6 D, 1.7 D, 1.9 DT, 1.9 SDi / Tdi and 2.4 D (MN, 1W, 1Y, 1Z, AEY, AFN, AHB, AHU, AKW, ALE, AHH, AZZ, AVG, ACL and ACT engines)
- Volvo: 240, 740, 760, 940, 960D / Turbo
- Bosch VE, Diesel Kiki, Nippondenso and CAV/ RotoDiesel injection pumps.

Very useful tool set for locking/positioning engine shafts such as camshaft, crankshaft and injection pump shaft, as well as for adjusting the injection pump.

Scope of Delivery: KL-0180-106 K Locking Tool Set

Part No.	Description	Qty
KL-0129-210	Adjustment Tool for Bosch VE Injection Pump	1
KL-0482-210	Camshaft Setting Plate	1
KL-0129-200	Adjustment Tool Kit for Lucas CAV Injection Pump	1
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0481-8	TDC-Setting Tool for Crankshaft/Flywheel	1
KL-0481-9	Locking Pin for Crankshaft	1
KL-0128-0	Dial Gauge, Ø 40mm	1
KL-1480-15	Locking Pin, angled, Ø 7.8mm	1
KL-1480-11	Locking Pin, angled, Ø 6mm	1
KL-1480-18 S	Hex Bolt, M8x40 (3 units)	1
KL-0481-611	Hex Bolt, M6x50 (2 units)	1
KL-0280-9	Setting Gauge	1
KL-0680-10	Locking Pin for Crankshaft, long	1
KL-0680-14 A	Locking Pin, Ø 6mm (2 pcs.)	1
KL-1780-101	Locking Pin, Ø 6.6mm (2 pcs.)	2
KL-0680-12 A	Locking Pin, Ø 9.5mm	1
KL-0280-801	Locking Pin, Ø 15.5mm	1
KL-0680-111	Locking Pin, Ø 8.3mm	1
KL-0680-131	Locking Pin, Ø 12.7mm	1
KL-0180-1069	Storage Case with Insert	1



6

KL-0129-1 A

Tool Set for Fuel Injection Pump

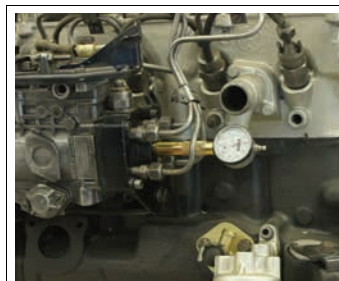
The **KL-0129-1 A** tool set is designed to adjust the **BOSCH VE fuel injection pump** found in Diesel vehicles.

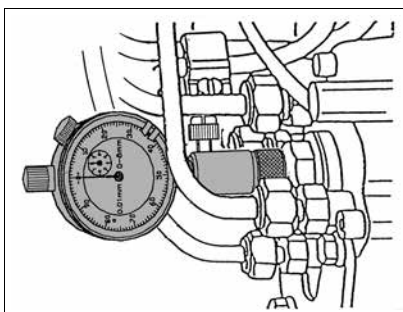
Advantages:

- Accurate adjustment of the BOSCH VE injection pump.
- Tool is easy to use.
- Suitable for use on all the Diesel vehicles equipped with a BOSCH VE fuel injection pump.

Scope of Delivery: KL-0129-1 A Tool Set for Fuel Injection Pump

Part No.	Description	Qty
KL-0129-10	Adaptor, 35mm, M8x1	1
KL-0129-11	Adaptor, 65mm, M8x1	1
KL-0129-12	Adaptor, 120mm, M8x1	1
KL-0129-13	Adaptor, M12x1.25, for VW-Audi TDI	1
KL-0129-14	Adaptor, 85mm, M10x1	1
KL-0128-0	Dial Gauge, Ø 40mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-9	Setting Gauge	1
KL-0129-1020	Plastic Storage Case	1





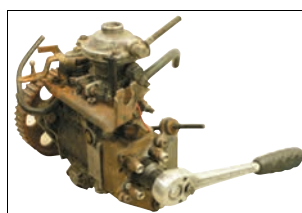
KL-0129-210 A Adjustment Tool for Bosch VE Diesel Injection Pump

Suitable for use on Bosch VE injection pumps.

Designed to adjust the start-of delivery-setting of Diesel injection pumps.
For example, included in tool set **KL-0180-106 K**.

Scope of Delivery: KL-0129-210 A Adjustment Tool

Part No.	Description	Qty
KL-0129-10	Adaptor, 35mm	1
KL-0129-11	Adaptor, 65mm, M8x1	1
KL-0129-13	Adaptor, M12x1.25	1
KL-0129-2105 A	Adaptor, M10x1 to M8x1	1



Technical Data:

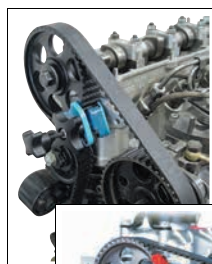
Size (waf):	24mm
Length:	38mm
Drive:	1/2"
Weight:	130g

KL-0129-22 Socket (3-point), 24mm (waf), for VE-Injection Pump

Suitable for use on VE Diesel injection pumps, for example Bosch, Delphi etc.

Designed for the removal and installation of the distributor plunger screw plug on the high-pressure pump.

6



KL-0180-2 K Locking Tool Set 'Multi-/Uni-Lock'

(Universal)

Universally applicable tool set for locking timing belt sprockets such as camshaft sprockets (TwinCam and single camshaft engines) injection pump sprockets, etc.

Scope of Delivery: KL-0180-2 K Locking Tool Set 'Multi-/Uni-Lock'

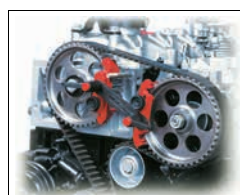
Part No.	Description	Qty
KL-0180-20	Locking Tool	1
KL-0180-201 A	Rail (extended design)	1
KL-0180-21	Locking Tool	1
KL-0180-2090	Storage Case	1

KL-0180-20 Locking Tool

Universally adjustable and applicable tool. Suitable for use on timing belt sprockets with a clearance of approximately 5-60mm.

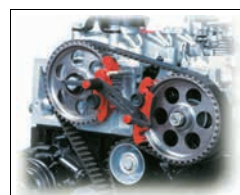
Intended for use on TwinCam engines (e.g. Citroën, Fiat, Ford, Honda, Hyundai, Lancia, Mazda, Mitsubishi, Nissan, Opel/Vauxhall, Peugeot, Renault, Rover, Saab, Subaru, Toyota, Volvo etc.) and on Diesel engines for locking the camshaft relative to the injection pump sprocket (e.g. VW-Audi, Ford, Seat, Škoda, etc.).

Simply insert the **KL-0180-20** locking tool into the engine shaft timing belt sprockets to ensure their correct position relative to the crankshaft when replacing a timing belt or performing an engine repair.



KL-0180-201 A Rail (extended design)

Designed to be used with the **KL-0180-20** locking tool on timing belt sprockets with a clearance of approx. 60-125mm; e.g. when locking the injection pump sprocket relative to the camshaft.



KL-1681-11 K

TDC Position Tool Kit,

VW-Audi/Seat/Škoda/Alfa Romeo/Fiat/Porsche

Universally applicable to vehicles with either an M12x1.25 or M14x1.25 spark plug thread; such as VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3; Seat Alhambra, Altea, Cordoba, Ibiza, Leon, Toledo; Škoda Fabia, Octavia, Roomster, Superb, Yeti; Alfa Romeo 147, 156, 166, GT, GTV, Spider; Fiat Doblo, Fiorino, Marea, Multipla, Palio, Panda, Punto, Qubo, Stilo; Lancia Lybra, Thesis. (Engine codes: 161.05, 182B6.000, 183A1.000, 185A8.000, 188A4.000, 192A2.000, 322.05, 324.05, 361.01, 362.01, 839A7.000, 841A.000, 841D.000, 841E.000, 841L.000, 932A.000, 932A2.000, 936A.000, 936A6.000, 937A1.000, AXU, BAG, BKG, BLF, BLG, BLN, BLP, BMY, BTS, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CDGA, CKMA, KFT, KVF)

This tool is necessary to determine the TDC position on No.1 cylinder.

Scope of Delivery: KL-1681-11 K TDC Position Tool Kit

Part No.	Description	Qty
KL-1681-111	Adaptor, M14x1.25, for TDC Positioning	1
KL-1681-112	Adaptor, M12x1.25, for TDC Positioning	1
KL-0128-0	Dial Gauge, Ø 40mm	1
KL-1681-1190	Plastic Storage Case	1



KL-0180-100 KA

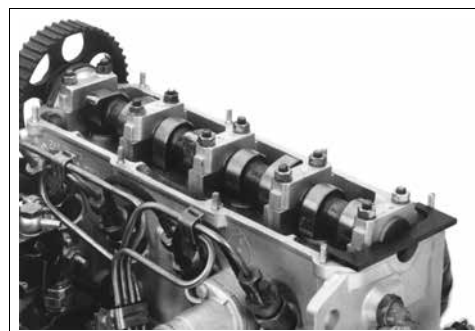
Universal Locking Pin Set for Engine Shafts (in a Storage Case)

Applicable to: VW-Audi, BMW, Citroën, Ford, Peugeot, Renault, etc.
Designed for the locking of engine shafts.

Indispensable tool set when replacing the timing belt, removing or installing the injection pump, etc. (correct timing). In order to obtain correct positioning of engine shafts such as camshaft and pump shaft relative to the crankshaft, it is decisive to insert the correct locking pins into the crankcase, camshaft sprocket, injection pump sprocket and flywheel, as well as to insert the KL-0280-9 setting gauge into the camshaft slot. Only this way can optimum engine power be achieved and damage to the engine prevented.

Scope of Delivery: KL-0180-100 KA Universal Locking Pin Set

Part No.	Description	Qty
KL-0280-10	Locking Pin, (Audi V6)	1
KL-0280-8	Locking Pin, Ø 15.5mm (VW-Audi, Seat)	1
KL-0280-9	Setting Gauge (VW-Audi, Seat)	1
KL-0580-10	Locking Pin, Ø 11.8/8mm (BMW)	1
KL-0580-11	Locking Pin, Ø 9.9mm (BMW)	1
KL-0680-10	Locking Pin for Crankshaft (Ford)	1
KL-0680-11 A	Locking Pin, Ø 8.3mm (Renault, Ford)	1
KL-0680-12 A	Locking Pin, Ø 9.5mm (Ford)	1
KL-0680-13 A	Locking Pin, Ø 12.9mm (Ford)	1
KL-0680-14 A	Locking Pin, Ø 6mm (Ford)	2
KL-1280-10	Locking Pin, Ø 8/12mm (Renault)	1
KL-1280-11	Hex Screw, M5x50 (Renault)	2
KL-1280-12	Hex Screw, M7x50 (Renault)	3
KL-1380-10	Locking Pin A, Ø 8mm (Peugeot)	1
KL-1380-11	Locking Pin B, Ø 9.5mm (Peugeot)	1
KL-1380-12	Locking Pin C, Ø 6mm (Peugeot)	1
KL-1382-1	Adjuster for Timing Belt Tensioner (Peugeot)	1
KL-1480-10	Locking Pin (angled), Ø 6.8mm (Peugeot)	1
KL-1480-11	Locking Pin (angled), Ø 6mm (Peugeot)	1
KL-1480-12	Locking Pin, Ø 6mm, short (Peugeot)	2
KL-1480-13	Locking Pin, M8/Ø 6.7mm, (Citroën, Peugeot)	1
KL-1480-14	Locking Pin, Ø 10/8mm (Peugeot)	1
KL-1480-15	Locking Pin (angled), Ø 7.8mm (Citroën, Peugeot)	1
KL-1480-16	Locking Pin, Ø 6mm, long (Peugeot)	2
KL-1480-17	Hex Screw, M8x30mm (Peugeot)	2
KL-1480-18	Hex Screw, M8x40mm (Peugeot)	1
KL-0180-1020	Plastic Storage Case	1





KL-0180-30 B

Retaining Pin Set, Ø 0.8-2.6mm

Universally applicable to VW-Audi, Seat, Škoda; Ford, Opel/Vauxhall, Mitsubishi, Chevrolet, Peugeot, Saab, Suzuki, Volvo, etc.

Designed to lock the automatic timing belt tensioner when replacing a timing belt.

Consists of:

Key fob with ring and 8x retaining pins with Ø 0.8mm; Ø 1.2mm; Ø 1.4mm; Ø 1.5mm; Ø 1.7mm; Ø 1.9mm, Ø 2.4mm, Ø 2.6mm.



KL-0180-3030 Retaining Pin, Ø 3.0mm

Universal application.

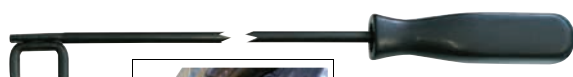
Can be used, for example, for locking the automatic timing belt tensioner when replacing a timing belt.



KL-0180-3033 Retaining Pin, Ø 3.3mm

Universal application.

Can be used, for example, for locking the automatic timing belt tensioner when replacing a timing belt.



KL-0183-21

Belt Mounting Tool

Universal application.

This tool is essential for the easy and trouble-free positioning of a V-ribbed belt on the pulleys. Specifically designed for use in confined spaces.

Technical Data:

Overall length:	720mm
Weight:	330g

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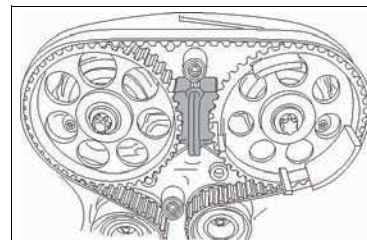
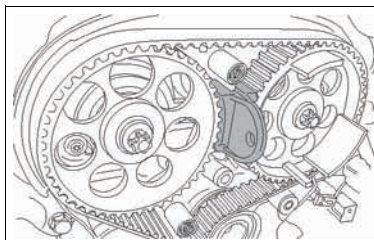


KL-0180-105 KA

Locking Tool Set, Ford / Honda / Land Rover / Mazda / Rover/Opel/Vauxhall 16V

Suitable for use on the 1.25, 1.4, 1.6, 1.7, 1.8, 2.0, 2.2 and 2.3 16V TwinCam (DOHC) petrol engines as fitted to: Ford (Zetec) Fiesta, Puma & Focus (1.25, 1.4 1.6 and 1.7 16V), Escort/Orion (1.6i and 1.8i), Mondeo (1.6, 1.8 and 2.0 16V [-98]); Honda Civic, Accord, Prelude, Integra & Shuttle (1.6, 2.0, 2.2 and 2.3); Land Rover Discovery (2.0 MPI), Freelander (1.8i 16V); Mazda 121 (1.25 16V); Rover Metro, Gta/Gti, 114, 214, 216, 218, 414, 416, MGF, 220, 420, 618, 620, 623, 820/ Vitesse (92-), 25, 45; Vauxhall/Opel (EcoTec) Corsa, Tigra, Meriva, Astra, Cavalier, Calibra, Vectra, Omega, Frontera & Sintra (1.4, 1.6, 1.8, 2.0 and 2.2 16V).

Designed for the locking/positioning of camshaft, balance shaft and crankshaft. An indispensable tool set when replacing a timing belt or performing an engine repair.



Scope of Delivery: KL-0180-105 KA Locking Tool Set

Part No.	Description	Qty
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-1780-105 A	Locking Tool for Camshafts	1
KL-1780-106 A	Locking Tool for Camshafts	1
KL-0482-313 A	Locking Tool for Camshafts	1
KL-0482-314 A	Locking Tool for Camshafts	1
KL-0482-301	Locking Tool for Camshafts	1
KL-0482-302	Locking Tool for Camshafts	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	2
KL-1780-103 A	Locking Pin, Ø 6.7mm	2
KL-1780-107 A	Locking Pin, Ø 8mm	1
KL-4990-2001	Plastic Storage Box, 53x107x1mm	1
KL-4990-1103	Plastic Storage Case	1

Mobile Modular Workstation „MODULO Engine“

Universally suitable for repairs to petrol and Diesel engines as found in passenger cars.

The following example of the Mobile Modular Workstation „MODULO Engine“ shows the ideal composition of tool modules for the mobile workplace with all the tools needed to ensure fast, organised and cost-effective repairs and maintenance work to engines can be carried out. This versatile „MODULO Engine“ comes equipped with tool kits for stuck injector nozzles, broken-off glow plugs and damaged spark plug threads. The modules also include timing/locking tools both for chain-driven and belt-driven engines, alternator combination sockets, counter-holding tools etc.

Possible equipment of the: Mobile Modular Workstation „Modulo Engine“

Part No.	Description	Qty
KL-0132-56 E	Glow Plug Tool Set (Universal), in a Foam Insert	1
KL-0184-011 E	Counter-Hold Tool Kit, in a Foam Insert	1
KL-0186-14 E	Injector Nozzle Puller Set (Universal), in a Foam Insert	1
KL-0186-141 E	Injector Nozzle Puller Upgrade Kit, in a Foam Insert	1
KL-0186-142 E	Hydraulic Cylinder 17t (Short Design), with Pull Spindles	1
KL-0284-184 E	Alternator and Belt Tool Set, in a Foam Insert	1
KL-0369-34 E	Glow Plug Tool Upgrade Kit, Mercedes, in a Foam Insert	1
KL-4999-1202	Drawer Divider, 100mm (with Rivets)	2
KL-4999-1203	Drawer Divider, 60mm (with Rivets)	2
KL-4999-121	Workshop Trolley/Workbench (without tools)	1



KL-0280-701 K

Locking Tool Set, VW 1.2, 1.4, 1.6, 1.9 TDI

Applicable to VW-Audi, Seat, Škoda and Ford vehicles equipped with either a 1.2, 1.4, 1.6 or 1.9 Common Rail or Pumpe-Düse (unit injector) Diesel engine such as VW Lupo, Polo, Fox, Golf, Passat; Audi A1, A2, A3; Seat Arosa, Ibiza, Cordoba; Škoda Fabia II, Roomster, Praktik; Ford Galaxy etc.

(Engine codes: AMF, ANU, ANY, ASZ, ASZ1, ATL, AUY, AYZ, BAY, BHC, BMS, BNM, BNV, BWB, CAYA, CAYB, CAYC, CAYD, CAYE, CFWA)

Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. The kit also includes tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0280-701 K Locking Tool Set, VW 1.2, 1.4, 1.6, 1.9 TDI

Part No.	Description	Qty
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-19	Locking Tool	1
KL-0280-2201 A	Locking Pin (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4031-3610	Screw Driver Bit Socket, XZN-M10	1
KL-4031-3114	Screw Driver Bit Socket, XZN-M14, 100mm	1
KL-0280-7029	Plastic Storage Case	1



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Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm





(Engine codes: AJM, AMF, ANU, ANY, ARL, ASZ, ASZ1, ATD, ATL, AUY, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, AYZ, AZV, BAY, BDJ, BDK, BGW, BHC, BHW, BJB, BKC, BKD, BKE, BKP, BLB, BLS, BLT, BMA, BMM, BMN, BMP, BMR, BMS, BMT, BNA, BNM, BNV, BPW, BPX, BPZ, BRB, BRC, BRD, BRE, BRF, BRM, BRR, BRS, BRT, BRU, BSS, BST, BSU, BSV, BSW, BTB, BUK, BUY, BUZ, BVA, BVB, BVE, BVF, BVG, BVH, BVK, BWB, BWV, BXE, BXF, BXJ, CAAA, CAAB, CAAC, CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCHA, CDBA, CDCA, CEGA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFWA, CGLA, CGLB, CGLC, CGLD, CJAA, CJCA, CJC, CKTB, CKTC, CKUB, CKUC, CLCA, CLCB, CLJA, CLLA, CMEA)

KL-0280-702 K

Locking Tool Set, VW 1.2-2.0 TDI

Applicable to VW-Audi, Seat, Škoda and Ford vehicles equipped either with a 1.2, 1.4, 1.6, 1.9 or 2.0 Common Rail or Pumpe-Düse (unit injector) Diesel engine. Engines fitted to: VW Beetle, Caddy, Crafter, Fox, Golf, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran, Transporter T5; Audi A1, A2, A3, A4, A5, Q5, A6, TT; Seat Alhambra, Altea, Arosa, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Fabia II, Octavia II, Roomster, Superb, Superb II, Yeti and Ford Galaxy etc.

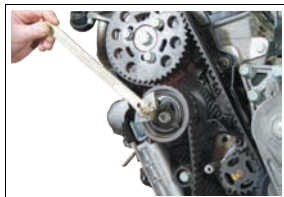
Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. The kit also includes tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-702 K Locking Tool Set, VW 1.2-2.0 TDI

Part No.	Description	Qty
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, pin Ø 5mm	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-19	Locking Tool	1
KL-0280-20	Locking Tool, 2.0 TDI, PD	1
KL-0280-2201 A	Locking Tool (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0280-221	Locking Pin (angled), Ø 4mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-0284-92	Tensioner Pulley Spanner (waf 16mm)	1
KL-0286-11	Guide Pin Set	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4031-3610	Screw Driver Bit Socket, XZN-M10	1
KL-4031-3114	Screw Driver Bit Socket, XZN-M14, 100mm	1
KL-0280-7029	Plastic Storage Case	1

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(Engine codes: 1X, 1Z, AAZ, ABL, AEY, AFN, AGD, AGP, AGR, AHB, AHF, AHG, AHU, AJM, AKU, AKW, ALE, ALH, AMF, ANU, ANY, AQM, ARL, ASV, ASX, ASY, ASZ, ATD, ATJ, ATL, AUY, AVB, AVF, AVG, AVQ, AWX, AXB, AXC, AXR, AYZ, AZV, BAY, BDJ, BDK, BHC, BJB, BKC, BKD, BKE, BLB, BLS, BMM, BMN, BMS, BNA, BNM, BNV, BPW, BRB, BRC, BRD, BRE, BRF, BRM, BRU, BSU, BTB, BUY, BVA, BVF, BVG, BVK, BWB, BXE, BXF, CAYB, CAYC, MF)

KL-0280-62 K

Locking Tool Set, VW-Audi/Seat/Škoda

Applicable to VW-Audi 1.2, 1.4, 1.6, 1.9 and 2.0 TDI / TDI PD / TDI CR, 3- and 4-cylinder Diesel engines as installed in: VW Beetle, Bora, Caddy, Eos, Fox, Golf/Vento, Jetta, Lupo, Passat, Polo, Sharan, Touran, Transporter; Audi A2, A3, A4, A6; Seat Alhambra, Altea, Cordoba, Ibiza, Leon, Toledo; Škoda Fabia, Octavia, Superb.

This tool set is designed for the locking and/or positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. It can also be used to lock/position pulley tensioners and to adjust the timing belt tensioner. The guide pins included in the set are required to pull the front-end carrier forwards. As a result, the removal of the front-end carrier is no longer necessary.

Scope of Delivery: KL-0280-62 K Locking Tool Set, VW-Audi/Seat/Škoda

Part No.	Description	Qty
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-19	Locking Tool, 1.2, 1.4, 1.9 TDI PD	1
KL-0280-20	Locking Tool, 2.0 TDI PD	1
KL-0280-2201 A	Locking Pin angled, Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-91	Setting Gauge for Camshaft	1
KL-0284-91	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-0286-11	Guide Pin Set for Front-End Carrier, VW-Audi	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-0280-6290	Plastic Storage Case	1

KL-0282-39

Puller Tool Set, Pumpe-Düse (Unit Injector)

Applicable to the VW-Audi, Ford, Seat, Škoda 3- and 4-cylinder (1.2, 1.4, 1.6, 1.9 and 2.0 litre) TDI Pumpe-Düse (unit injector) engines as installed in: VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3, A4, A5, A6, Q5, TT; Seat Altea, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Oktavia, Praktik, Roomster, Superb, Yeti. (Engine codes: CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CEGA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHF, CFJA, CGLA, CGLB, CJAA, CJCA, CJCB, CLCA, CLCB, CLJA, CLLA, CMEA)

This tool set is designed for the easy and professional removal of camshaft hubs. It is required, for example, when replacing the cylinder head gasket on 1.9 litre engines, when removing and replacing the camshaft, and for the repair of engines/cylinder heads. The **KL-0282-391** reaction wrench enables the camshaft hub fixing screw to be loosened and tightened correctly. The **KL-0282-392** puller allows for the accurate removal of the camshaft hub from the camshaft taper.

Scope of Delivery: KL-0282-39 Puller Tool Set, Pumpe-Düse (Unit Injector)

Part No.	Description	Qty
KL-0282-391	Counter-Holding Tool	1
KL-0282-392	Puller for Camshaft Hub	1



KL-4031-3610

Screwdriver Bit Socket, XZN-M10

Suitable for use on VW-Audi, Seat, Škoda vehicles equipped with a 1.2, 1.6 or 2.0 TDI Common Rail engine. (Engine codes: CAAA, CAAB, CAAC, CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBBB, CCHA, CDCA, CDBA, CEGA, CFCA, CFFA, CFFB, CFFD, CFGB, CFHA, CFHC, CFHD, CFHE, CFHF, CFJA, CFWA, CGLA, CGLB, CGLC, CGLD, CJCA, CJCB, CKTB, CKTC, CKUB, CKUC, CLCA, CLCB, CLJA, CLLA)

This socket is designed to loosen and tighten the fastening screws of the high pressure fuel pump sprocket (toothed timing belt) on Audi A3. The tool is required when replacing a timing belt or for engine repairs. Socket can also be used to install and remove the exhaust gas recirculation tube (EGR tube) on VW Tiguan.



3/8"

Technical Data:

Size (waf):	XZN-M10
Drive:	3/8"

KL-0280-703 K

Locking Tool Set, VW 1.7, 1.9, 2.4 SDI/TDI

Applicable to VW-Audi, Seat and Škoda vehicles equipped with a 1.7, 1.9 or 2.4 SDI/TDI engine such as VW Lupo, Bora, Golf, Beetle, Caddy, Fox, Polo, Golf IV Convertible, Caddy, T4 (2.4); Audi A3; Seat Arosa, Leon, Toledo, Ibiza und Škoda Octavia, Fabia etc. (Engine codes: 1Y, ABL, AEY, AGP, AGR, AHF, AJA, AKU, ALH, AQM, ASV, ASY, AVG, AYQ)

Designed for the locking/positioning of engine shafts such as camshaft and injection pump shaft. The kit also includes tools to lock/position and adjust the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-703 K Locking Tool Set, VW 1.7, 1.9, 2.4 SDI/TDI

Part No.	Description	Qty
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-91	Setting Gauge for Camshaft	1
KL-0280-93	Setting Gauge for Camshaft	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1

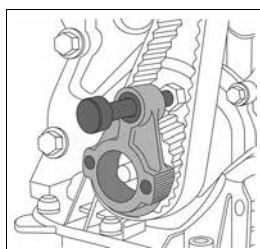


Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet

DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm





KL-0280-706 K

Locking Tool Set, VW 1.6/2.0 TDI

Applicable to VW-Audi, Seat and Škoda vehicles fitted with either a 1.6 or 2.0 Common Rail Diesel engine.

For example: VW Golf VII (5G, BE); Audi A3 (8V), A4 (8K), A5 (8T, 8F), A6 (4G), Q5 (8R); Seat Leon (5F) and Škoda Octavia III (5E) etc.

(Engine codes: CKFB, CKFC, CLHA, CLHB, CNHA, CNHC, CRBC, CRBD, CRFA, CRFC, CRKA, CRKB, CRLB, CRMB, CRVA, CRVC, CSUA, CSUB, CUNA, CUPA)

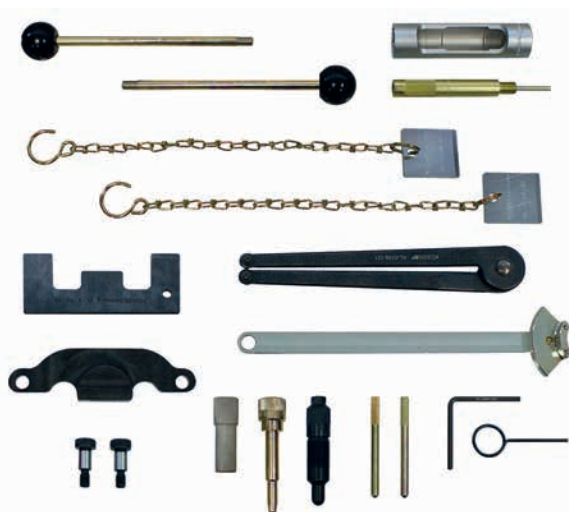
For the locking of camshaft, crankshaft, high-pressure pump, timing belt tensioner and auxiliary drive belt tensioner (V-ribbed belt). An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0280-706 K Locking Tool Set, VW 1.6/2.0 TDI

Part No.	Description	Qty
KL-0280-2201 A	Locking Pin (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, size (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-7061	Locking Tool for Crankshaft	1
KL-0280-7062	Locking Tool Set for Camshaft	1
KL-1480-16	Locking Pin, Ø 6mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1003	Plastic Storage Case	1

6



KL-0280-704 K

Locking Tool Set, VW 1.7-2.5 SDI/TDI

Applicable to VW-Audi, Seat and Škoda vehicles equipped with either a 1.7, 1.9, 2.4 or 2.5 SDI/TDI engine such as VW Beetle, Bora, Caddy, Crafter, Fox, Golf IV Convertible, Golf, LT, Lupo, Passat, Polo, Transporter T4; Audi A3, A6 Allroad, A4, A6; Seat Arosa, Ibiza, Leon, Toledo and Škoda Octavia, Fabia, Superb etc.

(Engine codes: 1Y, ABL, ACV, AEY, AFB, AGP, AGR, AGX, AHD, AHF, AHY, AJA, AJT, AKE, AKN, AKU, ALH, ANJ, APA, AQM, ASV, ASY, AUF, AVG, AVR, AXG, AXL, AYC, AYM, AYQ, AYY, BAU, BBE, BBF, BCZ, BDG, BDH, BFC, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB)

Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. The kit includes also tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0280-704 K Locking Tool Set, VW 1.7-2.5 SDI/TDI

Part No.	Description	Qty
KL-0129-14	Adaptor, 85mm, M10x1	1
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2601	Locking Pin, Ø 16/10/7.5mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-91	Setting Gauge for Camshaft	1
KL-0280-92	Setting Gauge for Camshaft	1
KL-0280-93	Setting Gauge for Camshaft	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-0286-11	Guide Pin Set	1
KL-0369-10	Hex Socket, Size (waf) 22mm	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1

KL-0280-102 A

Locking Tool Set, VW-Audi/Ford/Seat/Škoda

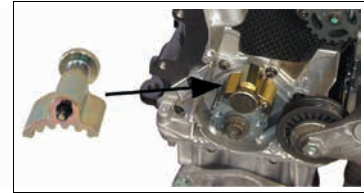
Applicable to vehicles equipped with a 3- or 4-cylinder (1.2, 1.4, 1.6, 1.9 or 2.0) TDI Pumpe-Düse engine (PD=unit injector) such as VW Amarok, Beetle, Bora, Caddy, Crafter, Eos, Golf, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran, Transporter T5; Audi A1, A2, A3, A4, A5, A6, Q5, TT; Seat Alhambra, Altera, Arosa, Cordoba, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Octavia, Praktik, Roomster, Superb, Yeti; Ford Galaxy; Mitsubishi Grandis, Outlander.

(Engine codes: ANY, AJM, AMF, ANU, ANY, ARL, ASZ, ASZ1, ATD, ATJ, ATL, AUY, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, AYZ, AZV, BAY, BDJ, BDK, BGW, BHC, BHW, BJB, BKC, BKD, BLB, BLS, BLT, BMM, BMN, BMP, BMR, BMT, BNA, BNM, BNV, BPZ, BRD, BRE, BRF, BRM, BRR, BRS, BRU, BST, BSU, BSV, BSW, BSY, BTB, BUY, BVA, BVF, BVG, BVK, BWB, BXE, CAAA, CAAB, CAAC, CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCHA, CDBA, CDCA, CEGA, CFCA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFWA, CGLA, CGLB, CGLC, CGLD, CJAA, CJCA, CJC, CKTB, CKTC, CKUB, CKUC, CLCA, CLCB, CLJA, CLLA, CMEA)

Designed for the locking of crankshaft and automatic timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-102 A Locking Tool Set, VW-Audi/Ford/Seat/Škoda

Part No.	Description	Qty
KL-0280-19	Locking Tool, 1.2, 1.4, 1.9 TDI/PD	1
KL-0280-16	Holding Tool	1



Technical Data:

Weight:	320g
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Note:

The expanding mandrel ensures that the tool is securely locked in the housing borehole.

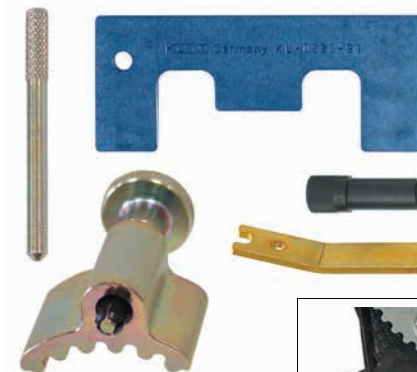
KL-0280-106 A

Locking Tool Set, VW-Audi

Universal Diesel tool set designed to lock/position engine shafts such as camshaft, crankshaft as well as the injection pump sprocket when replacing a timing belt or during engine repairs.

Scope of Delivery: KL-0280-106 A Locking Tool Set, VW-Audi

Part No.	Description	Use
KL-0280-8	Locking Pin, Ø 15.5mm	For locking the injection pump sprockets; applicable to VW-Audi, Seat, Škoda, etc.
KL-0280-16	Holding Tool	For locking the timing belt tensioner in the starting position; applicable to VW-Audi, Ford, Seat, Škoda TDI PD (unit injector) engines.
KL-1480-16	Locking Pin, Ø 6x60mm	For locking the injection pump sprocket; applicable to VW-Audi, Seat, Škoda, 1.9 D / SD / SDI / TD / TDI and 2.5 TDI. For positioning camshafts; suitable for VW-Audi, Ford, Seat, Škoda TDI PD-engines.
KL-0280-19	Locking Tool for Crankshaft	For locking the crankshaft; applicable to VW-Audi, Ford, Seat, Škoda 3- and 4-Cyl. TDI PD (unit injector) engines e.g. 1.2, 1.4, 1.9 and 2.0 (crankshaft sprocket with marking left to the locking screw).
KL-0280-91	Setting Gauge for Camshaft	For locking the camshafts; applicable to VW-Audi, Seat, Škoda 1.9 D / SD / SDI / TD / TDI engines Ford 1.6 D, 1.9 TD / TDI engines. Volvo Diesel-engines D24, D24T, D24TIC etc.



KL-0280-20

Locking Tool with Expanding Collet, Crankshaft, VW-Audi

Applicable to VW-Audi, Seat, Škoda 1.9 and 2.0 TDI engines with oval crankshaft timing belt sprocket as found in Audi A3, A4, A6, VW Polo, Golf, Caddy, Passat, Touran, Transporter etc.

(Engine codes: ASZ, ATD, AVQ, AXB, AXC, AXR, AZV, BDJ, BDK, BJB, BKC, BKD, BKE, BLB, BLS, BLT, BMA, BMM, BMN, BMP, BMR, BMT, BNA, BPW, BRB, BRC, BRD, BRE, BRF, BRM, BRR, BRS, BRT, BRU, BSS, BST, BSU, BUZ, BVA, BVE, BVF, BVG, BVH, BXE, BXF, BXJ etc.)

The tool is used for locking the crankshaft in position.

Necessary when replacing a timing belt or during engine repairs.



Scope of Delivery: KL-0280-20 Locking Tool

Part No.	Description	Qty
KL-0280-2001	Base Body	1
KL-0280-1902	Threaded Sleeve with Pins	1
KL-0280-1903	Knurled Screw	1



KL-0280-9

Setting Gauge, VW-Audi/Ford/Seat/Škoda/Volvo

Applicable to VW-Audi, Seat, Škoda, Ford, Volvo 1.9 and 2.5 Diesel engines as found in VW LT, Crafter.

(Engine codes: 1Y, ABL, ACV, AEY, AGP, AGR, AGX, AHD, AHF, AHY, AJA, AJT, AKU, ALH, ANJ, APA, AQM, ASV, ASY, AUF, AVG, AVR, AXG, AXL, AYC, AYQ, AYY, BBE, BBF, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB)

This tool is designed to lock/position the camshaft. Necessary when replacing a timing belt or during an engine repair.



KL-0280-103

Locking Tool Set, VW-Audi/Seat/Škoda

Applicable to VW- Audi, Seat, Škoda 4-cylinder 1.9 TDI/SDI engines (except PD). Ideal for VW Golf (IV 1.9 TDI [110 bhp] with aluminium valve cover.

Designed to lock engine shafts such as camshaft and injection pump shaft when replacing a timing belt or performing an engine repair.

The **KL-0280-103** tool set enables the replacement of the timing belt without having to remove the aluminium valve cover or the intake manifold.

Technical Data:

Weight:	400g
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Note:

The valve cover seal has been vulcanised to the valve cover and can, therefore, only be replaced along with the valve cover. The seal is not available individually.

Scope of Delivery:

KL-0280-103 Locking Tool Set, VW-Audi/Seat/Škoda

Part No.	Description	Use
KL-0280-93	Setting Gauge for Camshaft	for locking camshafts without having to remove the aluminium valve cover or the intake manifold. Applicable to VW-Audi, Seat, Škoda 4-cyl. 1.9 TDI/SDI engines (except PD). Ideal for 1.9 TDI (110 bhp) with aluminium valve cover as found in VW Golf (IV).
KL-1480-16	Locking Pin, Ø 6x60mm	for locking the injection pump sprocket. Applicable to VW-Audi, Seat, Škoda, 1.9 D/SD/SDI/TD/TDI engines. For positioning the camshaft. Suitable for VW-Audi, Ford, Seat, Škoda TDI PD-engines.



6



KL-0282-40

Camshaft Sprocket Removal Drift

Applicable to VW/Audi 4-cylinder 1.9 TDI engines (110 bhp)

Designed to remove the camshaft sprocket from the camshaft taper. The special shape of the drift (filler neck in direction of impact) ensures that the impact force is delivered in the correct axial direction onto the front part of the camshaft sprocket.

Technical Data:

Weight:	210g
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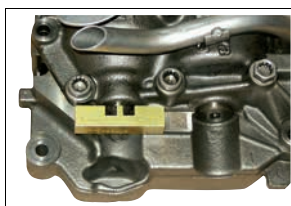
KL-0280-625

Locking Tool for Balance Shaft, VW-Audi

Applicable to VW-Audi 2.0 TDI PD (unit injector) Diesel engines.

(Engine codes: AZV, BDK, BHW, BKD, BMM, BMN, GAHA, GAHB, GAGA and GAGB)

This tool is used to lock the balance shaft when removing/installing a balance shaft module.



KL-0184-021

Counter-Holding Tool, VW

Applicable to VW-Audi (2.4 and 2.5 litre) 4- and 5-cylinder engines, both with and without vibration damper; as found on: VW Crafter, T4.

(Engine codes: AJA, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB)

This tool is designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

An indispensable tool when replacing timing belts, sealing rings or flywheels, as well as for engine repairs.

Scope of Delivery: KL-0184-021 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0210	Counter-Holding Tool (base tool with adaptor)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	3
KL-0184-0103	Folding Spring Bolt	4

Scope of Delivery: KL-0184-0210 Counter-Holding Tool (Base Tool with Adaptor)

Part No.	Description	Qty
KL-0184-0211	Counter-Holding Tool (Base Tool)	1
KL-0284-6101	Adaptor	1
KL-0284-6102	Special Cheese Head Screw	4
KL-0284-6106	Cheese Head Screw, M8x65mm	4
KL-0284-62	Hex Socket	1



Technical Data:

Overall length (assembled tool):	1.8m
Length of extension tube:	400mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm
Drive of hex socket:	1/2"

KL-0280-105

Locking Tool Set, VW-Audi

Applicable to VW-Audi 2.5 TDI V6 and Audi A8 3.3 TDI V8 engines.
(Engine codes: AFB, AKE, AKF, AKN, AMY, BAU, BCZ, BFC, BDG, BDH).

Designed for the locking of camshafts and crankshaft.

Indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-105 Locking Tool Set, VW-Audi

Part No.	Description	Qty
KL-0280-92	Setting Gauge for Camshafts	2
KL-0280-10	Locking Pin for Crankshaft	1



KL-0280-25 K

Locking Tool Set, VW-Audi 2.5 TDI V6

Applicable to the VW-Audi 2.5 TDI V6 Diesel engines.
(Engine Codes: AFB, AKE, AKF, AKN, AMY, BAU, BCZ, BFC, BDG, BDH)

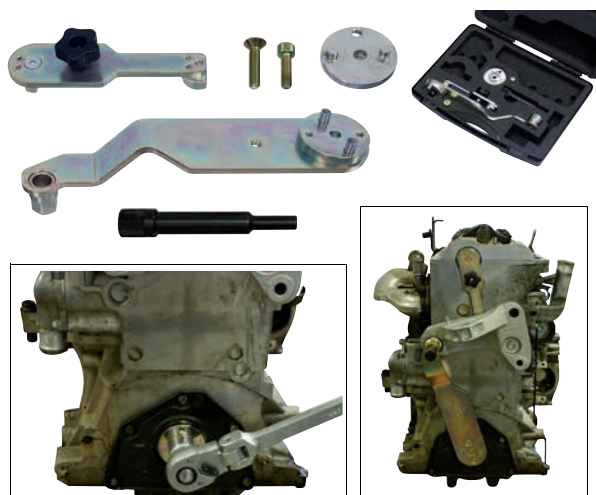
This tool set is designed to lock/position engine shafts such as camshafts, injection pump shaft and crankshaft. It can also be used for locking and adjusting the timing belt tensioner while replacing a timing belt or during an engine repair.

The guide pins included in the set are required to pull the front carrier forwards. As a result, the removal of the front carrier is no longer necessary.

Scope of Delivery: KL-0280-25 K Locking Tool Set, VW-Audi 2.5 TDI V6

Part No	Description	Use
KL-0280-10	Locking Pin	For locking the crankshaft.
KL-0280-92	Setting Gauge (2 units)	For locking the camshafts.
KL-0286-11	Guide Pin Set for Front-End Carrier	When changing a timing belt or during an engine repair it is necessary to pull the front carrier on the guide pins forwards. As a result, the removal of the front carrier is no longer required.
KL-1480-16	Locking Pin, Ø 6x60mm	For locking the injection pump sprocket.
KL-0180-3012	Retaining Pin, Ø 1.2mm	For locking the automatic timing belt tensioner.
KL-0369-10	Hex Socket, 22mm (waf)	For tightening the tensioner of the injection pump pulley.
KL-0280-2501	Locking Pin, Ø 4.4mm	For locking the V-ribbed belt tensioner tool.





KL-0280-27 KA Locking Tool Set, VW

Suitable for use on VW vehicles equipped with either a 2.5 or 4.9 TDI engine such as VW Phaeton, Touareg, Transporter T5. (Engine codes: AJS, AXE, AXD, AYH, BAC, BKW, BLE, BLJ, BLK, BNZ, BPC, BPD, BPE, BWF)

This tool set is designed to rotate the crankshaft as well as to lock and position camshaft and crankshaft.

Scope of Delivery: KL-0280-27 KA Locking Tool Set, VW

Part No.	Description	Qty
KL-0280-271	Locking Tool for Crankshaft	1
KL-0280-272	Locking Pin, Ø 16/10.3mm	1
KL-0280-273	Locking Tool for Camshaft	1
KL-0284-823	Key for Rotating the Crankshaft	1
KL-0280-2990	Plastic Storage Case	1



KL-0280-270 K Upgrade Kit to KL-0280-27 KA

Suitable for use on VW vehicles equipped with either a 2.5 or 4.9 TDI Pumpe-Düse (unit injector) Diesel engine such as VW Phaeton, Touareg, Transporter T5. (Engine codes: AJS, AXD, AXE, AYH, BAC, BKW, BLE, BLJ, BLK, BNZ, BPC, BPD, BPE, BWF)

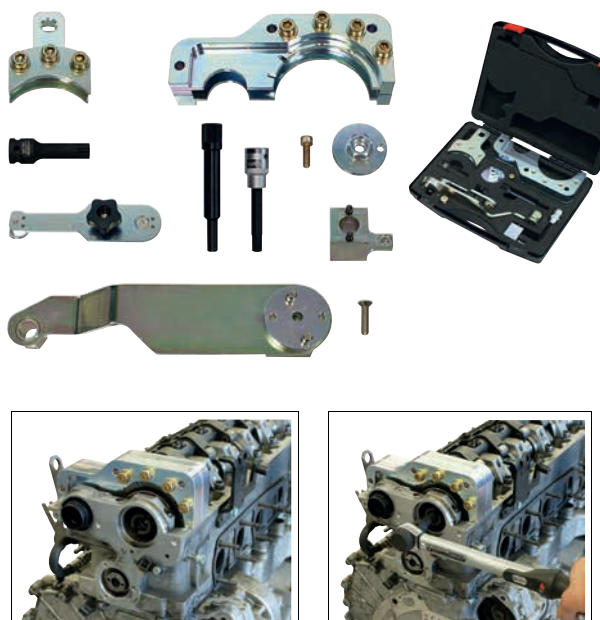
The **KL-0280-270 K** upgrade kit in conjunction with the **KL-0280-27 KA** tool set covers the same field of application as the locking tool set **KL-0280-29 KA**.

Designed to rotate the crankshaft as well as for the locking/positioning of camshaft and crankshaft. The kit also includes tools to pre-tension and lock the gear train when setting the timing on the engine.

Scope of Delivery: KL-0280-270 K Upgrade Kit to KL-0280-27 KA

Part No.	Description	Qty
KL-0280-291	Pre-Tensioning Tool	1
KL-0280-292	Holding Tool	1
KL-0280-293	Adjustment Tool	1
KL-4031-3516	Screwdriver Bit Socket, XZN-M16	1
KL-4031-3110	Screwdriver Bit Socket, XZN-M10	1
KL-0280-2990	Plastic Storage Case	1

6



KL-0280-29 KA Locking Tool Set, VW Transporter/Touareg

Suitable for use on VW vehicles equipped with either a 2.5 or 4.9 TDI engine such as VW Phaeton, Touareg, Transporter T5. (Engine codes: AJS, AXE, AXD, AYH, BAC, BKW, BLE, BLJ, BLK, BNZ, BPC, BPD, BPE, BWF)

Very useful tool set for the locking/positioning of camshaft and crankshaft. Also includes tools to pre-tension and lock the gear train when setting the timing on the engine, as well as a key for rotating the crankshaft. An indispensable tool set when performing an engine repair.

Scope of Delivery: KL-0280-29 KA Locking Tool Set, VW Transporter/Touareg

Part No.	Description	Qty
KL-0280-291	Pre-Tensioning Tool	1
KL-0280-292	Holding Tool	1
KL-0280-293	Adjustment Tool	1
KL-0280-273	Locking Tool for Camshaft	1
KL-0284-823	Key for Rotating the Crankshaft	1
KL-0280-271	Locking Tool for Crankshaft	1
KL-0280-272	Locking Pin, Ø 16/10.3mm	1
KL-4031-3516	Screwdriver Bit Socket, XZN-M16	1
KL-4031-3110	Screwdriver Bit Socket, XZN-M10	1
KL-0280-2990	Plastic Storage Case	1

KL-4031-3516

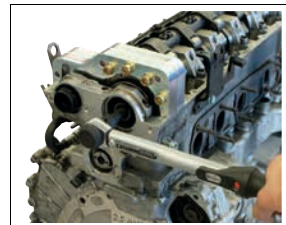
Screwdriver Bit Socket, xZN-M16, 78mm, 1/2"

Suitable for use on:

- VW Transporter (from 2004 onwards) 2.5 TDI (engine: AXD, AXE, BLJ, BNZ, BPC)
- VW Touareg (model 2003) 2.5 TDI (engine: BAC, BLK, BPD, BPE)

Designed for the loosening/tightening of camshaft sprocket fastening screws.
Reinforced design, however, not suitable for use with an impact wrench.

1/2"



KL-0280-94

Setting Gauge for Camshaft, VW-Audi

Suitable for use on VW/Audi 5-cylinder 2.5 TDI Diesel engines; e.g. LT, T4.

This setting gauge allows the user to lock the camshaft without having to remove the valve cover.

An indispensable tool when replacing a timing belt or performing an engine repair.



Technical Data:

Weight: 680g



KL-0280-705 KA

Locking Tool Set, VW, from 2.7 to 4.2 TDI

Suitable for use on VW-Audi vehicles equipped with either a 2.7, 3.0, 4.0 or 4.2 TDI Common Rail engine such as VW Touareg, Phaeton and Audi A4, A5 Coupé/Convertible, A6, A7, A8, Q5, Q7 etc.

The tool set is designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. It also includes tools to lock, position and adjust the timing belt tensioner.

An indispensable tool kit when replacing a timing belt or performing an engine repair.



Scope of Delivery: KL-0280-705 KA Locking Tool Set, VW from 2.7 to 4.2 TDI

Part No.	Description	Qty
KL-0280-10	Locking Pin, Audi V6	1
KL-1480-16	Locking Pin, Ø 6mm, long	2
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, Ø 3mm (5-piece set)	1
KL-0280-7053	Crankshaft Turning Tool	1
KL-0280-7054	Set of Locking Pins (2-piece set)	1
KL-0280-7055	Camshaft Turning Adaptor	1
KL-0280-7056	Adaptor for Chain Sprocket	1
KL-0280-7057	Set of Retaining Pins, Ø 3.3mm (2-piece set)	1
KL-0280-7058	Locking Pin, Ø 5mm, Ø 6mm	1
KL-0280-7050	Locking Tool for High-Pressure Pump Sprocket	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1



(Engine codes: ASB, ASE, BKN, BKS, BMK, BMZ, BNG, BPP, BSG, BTR, BUG, BUN, BVN, CAMA, CAMB, CANA, CANB, CANC, CAND, CAPA, CASA, CASB, CASC, CATA, CCFA, CCFC, CLA, CCMA, CCWA, CCWB, CDSB, CDTA, CDTB, CDUC, CDYA, CDYB, CDYC, CEXA, CGKA, CGKB, CJGA, CJGC, CJMA, CKVB, CKVC, CLAA, CLAB, CLZB, CRCA)

KL-0280-290 K

Upgrade Kit for KL-0280-29 KA

Applicable to VW 4.9 and 5.0 TDI Pumpe-Düse (unit injector) Diesel engines as found in VW Phaeton and Touareg etc.

(Engine codes: AJS, AYH, BKW, BLE, BWF, CBWA)

The KL-0280-290 K upgrade kit is designed to be used with the locking tool set KL-0280-29 K or the KL-0280-29 KA so as to widen their range of application to cover also the VW Phaeton and Touareg 4.9 and 5.0 TDI engines. Very useful tool set for turning the crankshaft and for the locking/positioning of camshaft and crankshaft. Also includes tools to pre-tension and lock the gear train when setting the timing on the engine.

Scope of Delivery: KL-0280-290 K Upgrade Kit for KL-0280-29 KA

Part No.	Description	Qty
KL-0280-2901	Locking Tool for Camshaft	1
KL-0280-2902	Locking Tool for Crankshaft	1
KL-0280-2903	Guide Pin Set	1
KL-4990-1107	Plastic Storage Case	1





KL-0280-61 KA

Locking Tool Set, VW-Audi/Seat/Škoda

Suitable for use on vehicles equipped with either a 1.2, 1.4, 1.9 or 2.0 TDI 3- or 4-cylinder Diesel engine; 1.2 3-cylinder petrol engine; 1.4, 1.6, 1.8 or 1.8 Turbo petrol engine; 1.4 or 1.6 FSI petrol engine; such as VW Beetle, Bora, Caddy, Eos, Fox, Golf, Jetta, Lupo, Passat, Polo, Sharan, Touran, Transporter; Audi A2, A3, A4, A6, A8, RS4, S3, S4, TT; Škoda Fabia, Octavia, Superb; Seat Alhambra, Altea, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo.

(Engine codes: 1X, 1Y, 1Z, AAZ, ABL, ACK, ACY, AFB, AFK, AEB, AEG, AEH, AEY, AFB, AFN, AGA, AGB, AGE, AGD, AGN, AGP, AGR, AGU, AHB, AHF, AHG, AHL, AHT, AHU, AHW, AHY, AJG, AJH, AJK, AJL, AJM, AJQ, AJT, AJV, AKE, AKL, AKN, AKQ, AKU, AKW, ALE, ALF, ALH, ALT, ALW, ALZ, AMB, AMF, AMK, AML, AMM, AMX, ANA, ANB, ANU, ANY, APC, APE, APF, APG, APK, APP, APR, APS, APT, APU, APX, APY, APZ, AQA, AQD, AQM, AQQ, AQX, ARC, ARE, ARJ, ARL, ARM, ARN, ARR, ARX, ARY, ARZ, ASJ, ASM, ASN, ASV, ASX, ASY, ASZ, ATD, ATJ, ATL, ATN, ATX, ATZ, AUA, AUB, AUF, AUM, AUQ, AUR, AUS, AUY, AVB, AVE, AVF, AVG, AVJ, AVQ, AVU, AVY, AWC, AWT, AWX, AWY, AXB, AXC, AXG, AXL, AXP, AXR, AXU, AXW, AXX, AYC, AYM, AYP, AYQ, AYZ, AZD, AZH, AZJ, AZL, AZM, AZQ, AZR, AZV, BAD, BAG, BAM, BAU, BAY, BBG, BBJ, BBU, BBY, BBZ, BCA, BCB, BCZ, BDG, BDH, BDJ, BDK, BDV, BES, BEX, BFB, BFC, BFQ, BGB, BGD, BGU, BHC, BHD, BJB, BJX, BKC, BKD, BKE, BKG, BKV, BKY, BLB, BLF, BLN, BLP, BLS, BLZ, BMB, BMD, BME, BMM, BMN, BMS, BNA, BNM, BNV, BPG, BPJ, BPW, BPY, BRB, BRC, BRD, BRE, BRF, BRM, BRU, BSE, BSF, BSU, BTB, BUD, BUL, BUY, BVA, BVF, BVG, BVK, BWA, BWB, BWE, BXE, BXF, BXW, BYK)

This set of tools is designed for the locking/positioning of engine shafts such as camshafts, injection pump shafts and crankshafts. It also includes tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0280-61 KA Locking Tool Set, VW-Audi/Seat/Škoda

Part No.	Description	Qty
KL-0180-30 B	Retaining Pin Set , Ø 0.8-2.6mm	1
KL-0280-1081 B	Locking Pin for Camshafts	1
KL-0280-1082 B	Locking Pin for Camshafts	2
KL-0280-1083 A	Locking Pin for Crankshaft	1
KL-0280-16	Holding Tool	1
KL-0280-17	Locking Tool for Camshaft, VW-Audi	1
KL-0280-19	Locking Tool for Crankshaft, 1.2, 1.4 and 1.9 TDI/PD	1
KL-0280-20	Locking Tool for Crankshaft, 1.9 and 2.0 TDI/PD	1
KL-0280-2201 A	Locking Pin (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, 6mm (waf)	1
KL-0280-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-6013 A	Clamping Screw with Sleeve	1
KL-0280-6021 A	Setting Gauge for Camshaft	1
KL-0280-6022	Locking Screw for Crankshaft	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0280-6103	Locking Pin, Ø 8mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-91	Setting Gauge for Camshaft	1
KL-0280-93	Setting Gauge for Camshaft	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm long	1
KL-0286-11	Guide Pin Set for Front-End Carrier	1
KL-1480-16	Locking Pin, Ø 6mm, long	2
KL-1681-111	Adaptor, M14x1.25, for TDC Positioning	1
KL-0280-6190	Plastic Storage Case	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet

DMK 200 CODE:2641240

Torque Wrench Dremaster 40-200Nm



KL-0282-31

Reaction Wrench

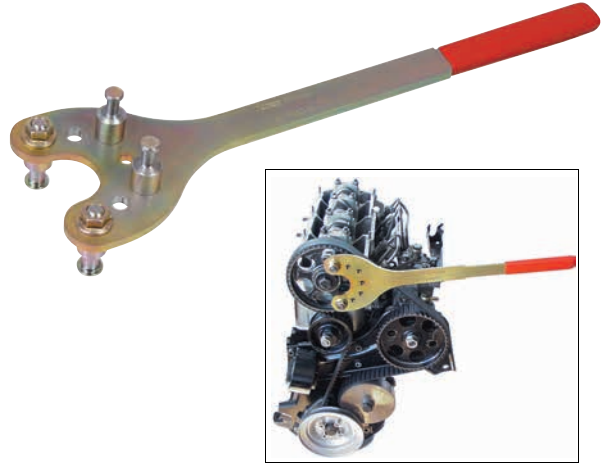
(420mm long, adjustable)

Suitable for use on perforated timing belt sprockets with a hole Ø not smaller than 12mm, as found in VW-Audi, Seat, Fiat, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Isuzu, Japanese vehicles, etc.

With interchangeable pins and different hole pitches. Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating; for example, when loosening the central fastening screw. Due to the different pin Ø and hole pitches, this wrench is almost universal in its range of application.

Technical Data:

Pitch between pins:	45-75mm
Pin Ø:	12mm and 16mm
Pin height:	61mm
Overall tool length:	420mm



KL-0282-35 B

Reaction Wrench Set

(470mm long, adjustable)

Universally suitable for use on perforated timing belt sprockets with a hole Ø not smaller than 6.5mm as found in: VW-Audi, Seat, Škoda, Alfa, Fiat, Lancia, Dacia, MG, Nissan, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Suzuki, Isuzu, Japanese vehicles, etc.

Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating, for example, when loosening/tightening the central fastening bolt. Thanks to the different interchangeable pins and the adjustable lever allowing for variable adjustments to hole diameters and pitches, this tool is nearly universally applicable.

Scope of Delivery:

KL-0282-35 B Reaction Wrench Set (470mm long, adjustable)

Part No.	Description	Qty
KL-0282-35	Reaction Wrench (adjustable)	1
KL-0282-311	Set of Pins, Ø 18mm	1
KL-0282-312	Set of Pins, Ø 7.5mm	1
KL-0282-313	Set of Pins, Ø 6mm	1



Technical Data:

Pitch between pins:	from 14mm to 130mm
Pin Ø:	6mm, 7.5mm, 12mm, 18mm
Pin height:	25mm/42mm
Overall tool length:	470mm

KL-0284-10

Adjustment Tool for Timing Belt Tensioner

Suitable for VW-Audi engines.

Designed to be used for adjusting the tension of the timing belt. The tool can be operated from a variety of angles - depending on the space available.



Technical Data:

Drive:	3/8" or by a mandrel
Length:	47mm
Depth:	32.5mm
Ø	4.0/6.0mm
Weight:	70g

KL-0284-91 A

Adjustment Tool for Timing Belt Tensioner, VW-Audi, Seat, Škoda

Applicable to VW-Audi, Seat, Škoda 1.6, 1.9 and 2.0 litre petrol and Diesel engines.

Designed to be used for adjusting the tension of the timing belt. The adjustable multi-position head of the tool allows the tensioner pulley to be operated even in confined spaces.



(Engine codes: AAC, AEG, AEH, AGR, AHF, AKL, AKS, ALH, ALZ, APF, APK, AQY, ASV, ASY, ASZ, ATD, ATM, AVQ, AVU, AWA, AWF, AWG, AXA, AXB, AXC, AXR, AXW, AXX, AYD, AZG, AZH, AZJ, AZL, AZM, AZV, BDK, BEH, BFQ, BFS, BGB, BGU, BHD, BHZ, BJB, BKC, BKD, BKP, BLR, BLB, BLR, BLS, BLT, BLX, BLY, BMA, BMB, BMM, BMN, BMP, BMR, BMT, BNA, BPG, BPJ, BPY, BRD, BRE, BRF, BRM, BRT, BRU, BSE, BSF, BSU, BSX, BUL, BUZ, BVA, BVE, BVF, BVG, BVH, BVX, BVY, BVZ, BWA, BWA1, BWE, BWJ, BWT, BXE, BYD, BYK, BZC, CCSA, CDLA, CDLB, CDLC, CDLD, CDLF, CDMA, CHGA, CMXA)



Technical Data:

Size (waf):	30mm
Length:	332mm

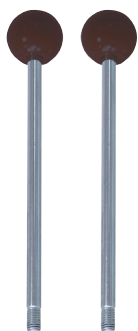
KL-0284-171

Adjustment Tool

for Timing Belt Tensioner, Size (waf) 30mm

Applicable to the VW, Seat and Škoda 1.0, 1.2 and 1.4 TSI petrol engines as fitted to VW Golf VI Convertible, Golf VII, Golf Sportsvan, Jetta, Polo, up!; Seat Leon, Mii and Škoda Citigo. (Engine codes: CAVA, CAVD, CAXA, CHPA, CHYA, CHYB, CJZA, CJZB, CJZC, CJZD, CMBA, CPGA, CPTA, CPVA, CPVB, CPWA, CRJA, CTHD, CXSA, CYVA, CYVB, CZCA, CZDA, CZEK)

For tensioning and relieving the tension on the automatic timing belt tensioner.



Technical Data:

Length:	190mm
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KL-0286-11

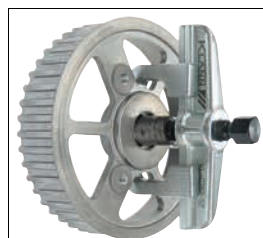
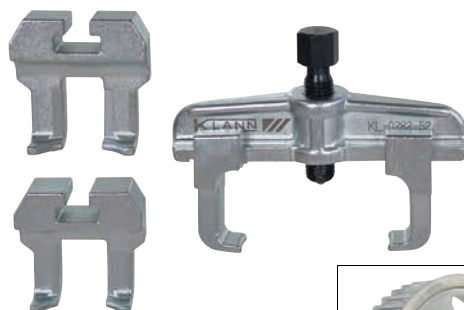
Guide Pin Set

for Front-End Carrier, VW-Audi

Applicable to VW-Audi A4, A5, A6, A8, Q5, S6, Passat (3B), T5, Touareg; Seat Exeo; Škoda Superb.

When replacing a timing belt or performing an engine repair on the specified vehicles, these guide pins are used to pull the front-end carrier forwards. As a result, the removal of the front-end carrier is no longer necessary.

Note: VW T5 vehicles require the use of 4 guide pins.



Technical Data:

Drive:	17mm
Max. pulling width:	100mm
Max. pulling height:	38mm
Max. load capacity:	2t
Weight:	1.3kg

KL-0282-52 K

Puller for Timing Belt Sprockets, vw-Audi

Applicable to VW-Audi; e.g. Audi A4, A6, A8 and VW Passat etc. equipped with either a 4-, 6- or 8-cylinder engine. (Engine codes: AFB, AGA/AJG, AGR, AHF, AJK, AKE, AKN, ALF, ALH, ALW, AML, AMM, AMX, APS, AQH, AQM, ARE, ARJ, ASM, ASV, ASY, AVP, AXQ, AYM, AYQ, BAU, BBG, BCY, BCZ, BDG, BDH, BDV, BES, BFC, BFL, BFM, BGH, BGJ, BHX, BJJ, BJK, BJL, BJM, BRV, CEBA, CEBB, CECA, CECB)

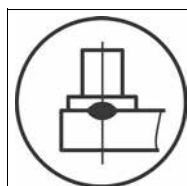
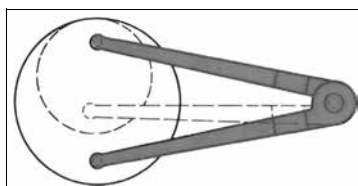
The puller **KL-0282-52 K** is particularly suitable for removing 5- and 6-spoke camshaft sprockets. A selection of hooks is included in the kit to make the puller almost universal in its range of application.

Scope of Delivery: KL-0282-52 K Puller for Timing Belt Sprockets, VW-Audi

Part No.	Description	Qty
KL-0282-52	Puller for Timing Belt Sprockets	1
KL-0282-5290	Plastic Storage Case	1

Scope of Delivery: KL-0282-52 Puller for Timing Belt Sprockets, VW-Audi

Part No.	Description	Qty
KL-0282-5201	Bridge	1
KL-0282-5202	Spindle	1
KL-0282-5203	Single Hook	2
KL-0282-5204	Double Hook, 18mm	1
KL-0282-5205	Double Hook, 23mm	1



KL-0149-131

Pin-Type Face Spanner,

Ø 14-100mm, Pin Ø 5mm

Applicable to VW-Audi, Fiat etc.

Designed to remove the pre-tension ring when installing a new SAC (Self-Adjusting Clutch) on Audi, Fiat etc.

Technical Data:

Ø:	14-100mm
Pin Ø:	5mm
Pin height:	6mm
Overall length:	215mm
Weight:	300g

KL-0284-92

Tension Pulley Spanner, Size (waf) 16mm

Universal application. Particularly useful on VW-Audi 1.9 and 2.0 TDI engines.
(Engine codes: ASZ, ATD, AXA, AXR, BLS, BLT, BMT, BPX, BUK, BXJ)

This tool is designed to pre-tension the auxiliary belt tensioner when the removal and installation of the belt is to be performed in situ on the vehicle. THE ideal spanner for use in areas where space is at a premium.

Technical Data:

Size (waf):	16mm
Length:	295mm

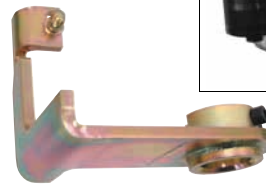


KL-0280-12

Locking Tool for Crankshafts, VW-Audi

Applicable to VW-Audi engines; e.g. 2.5 5-cylinder Diesel engines as installed in VW T4. (Engine codes: ACV, AET, AGX, AHD, AHY, AJT, ANJ, APA, APL, AUF, AVR, AVT, AXG, AXL, AYC, AYY, BBE, BBF)

Designed to lock the crankshaft (crankshaft pulley) when loosening or tightening the central retaining screw (for example when replacing a timing belt).



KL-0284-17

Adjuster for Timing Belt Tensioner, Size (waf) 32mm

Suitable for use on the VW-Audi 2.4 and 2.5 5-cylinder TDI engines as found in Audi A6, VW T4, also applicable for Volvo etc.

(Engine codes: ACV, AET, AGX, AHD, AHY, AJA, AJT, ANJ, APA, APL, AUF, AVR, AVT, AXG, AXL, AYC, AYY, BBE, BBF, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB)

For tensioning and relieving the tension on the automatic timing belt tensioner pulley.



Technical Data:

Length:	175mm
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KL-0284-14

Torx® Universal Joint Socket T45

Applicable to VW-Audi vehicles, ideal for use on:

- VW Golf (III) - petrol engines as from 85 kW (115bhp) onwards and all Diesel engines.
- Audi 80, A4 - petrol engines with 85 kW (115bhp) and double fan.
- Audi 80, A4 - Diesel engines with double fan.

Designed to loosen the timing belt tensioner clamping screw on toothed belt drives.



KL-0126-10

Timing Belt Tension Test Gauge

Ideal for use on VW-Audi, Ford, Opel/Vauxhall, etc.

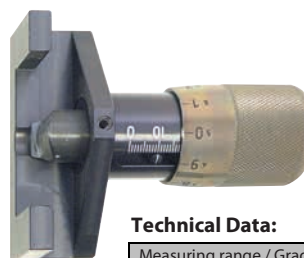
Mechanical control

The **KL-0126-10** belt tension test gauge enables controlled adjustment of the belt pre-tension on combustion engines.

The tool is applicable to any vehicle with available specifications and data of admitted belt deflexion in mm at a specified force in N or kp.

Advantages:

- Easy to use.
- Compact metal-based design.
- Controlled adjustment of the pre-tension of the timing belt.
- Double reading possibility (on front and rear side).



Technical Data:

Measuring range / Graduated scale:	0-20mm
Graduation of the scale:	in mm
Measurement method:	mechanical (spring)
360° revolution of adjusting knob:	1mm
Graduation of adjusting knob (Nonius):	1/10mm
Load capacity of the piston by the spring force at 1 revolution of the adjusting knob:	10 N (1 kp)
Weight:	344g



Advantages:

- No damage to the vibration damper.
- Substantial time savings.

KL-0282-51

Puller for Vibration Damper

Suitable for use on VW 5-cylinder engines with ribbed V-belt; e.g. T4, LT etc.

Designed for the removal of the vibration damper with the timing belt sprocket being pushed back at the same time. This puller is absolutely indispensable if the shoulder of the crankshaft sprocket is seized up in the vibration damper.

The tool can also be used with the engine installed in the vehicle.



KL-0280-766 K

Locking Tool Set, VW 1.0

Applicable to VW, Seat and Škoda 1.0 (3-cylinder) petrol engines as fitted to VW Polo, up!; Seat Mii, and Škoda Citigo. (Engine codes: CHYA, CHYB, CPGA)

For the locking/positioning of camshafts, crankshaft and timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-766 K Locking Tool Set, VW 1.0

Part No.	Description	Qty
KL-0284-171	Adjustment Tool for Timing Belt Tensioner, Size (waf) 30mm	1
KL-0280-7661	Locking Tool for Camshaft	1
KL-0280-7662	Locking Tool for Camshaft Sprockets	1
KL-0280-6022 A	Locking Screw for Crankshaft	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1

KL-0280-108 KB

Locking Tool Set, VW 3-Cylinder Engines, VW-Audi/Seat/Škoda

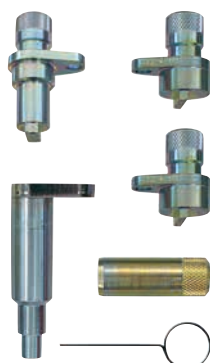
Applicable to VW, Seat, Škoda 1.0, 1.2 6V and 1.2 12V 3-cylinder petrol engines both with SingleCam and TwinCam as found in VW Polo, Fox; Seat Arosa, Ibiza, Cordoba and Škoda Fabia, Roomster etc.

This tool set is designed for the locking of camshafts, crankshaft and timing chain tensioner. Indispensable tools when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-108 KB Locking Tool Set, VW 3-Cylinder

Part No.	Description	Qty
KL-0280-1081 B	Locking Pin for Camshaft	1
KL-0280-1082 B	Locking Pin for Camshaft	2
KL-0280-1083 A	Locking Pin for Crankshaft	1
KL-0280-1084 B	Locking Pin, Ø 18mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-1089	Plastic Storage Case	1

6



(Engine codes: AHT, AWY, AZQ, BBM, BMD, BME, BXV, BZG, CEVA, CGPA, CGPB, CHFA, CHFB)

Technical Data:

Weight: 600 g

KL-0280-767 K

Locking Tool Set, VW 1.2/1.4 TSI/FSI

Applicable to VW-Audi, Seat, Škoda vehicles with either a 1.2 or 1.4 TSI/FSI petrol engine; e.g.: Audi A1 (8X), A3 (8V); VW Golf VII (5G, BE), Golf SV/Sportsvan (AM), Polo V (6R, 6C); Seat Leon (5F), Ibiza (6J); Škoda Octavia III (5E).

For locking the camshafts, crankshaft and auxiliary drive belt tensioner (V-ribbed belt). The set also includes special tools to position the timing belt tensioner and push against the timing belt to ease the insertion of the camshaft locking tool. An indispensable tool set when replacing a timing belt or timing chain, and when performing an engine repair.

Scope of Delivery: KL-0280-767 K Locking Tool Set, VW 1.2/1.4 TSI/FSI

Part No.	Description	Qty
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-6022 A	Fixing Screw for Crankshaft	1
KL-0284-171	Adjustment Tool for Timing Belt Tensioner, Size (waf) 30mm	1
KL-0280-7671	Locking Tool, Camshaft	1
KL-0280-7672	Locking Tool, Camshaft	1
KL-0280-7673	Special Tool for Camshaft	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1



(Engine codes: CHPA, CJZA, CJZB, CJZC, CJZD, CMBA, CPTA, CPVA, CPVB, CPWA, CXSA, CYVA, CYVB, CZCA, CZDA, CZEI)

KL-0280-602 KC

Locking Tool Set, VW-Audi

Applicable to VW-Audi 1.2 TSI/TFSI, 1.4 FSI / TSI / TFSI and 1.6 FSI petrol engines; as installed in VW Polo, Golf, Golf Plus, Touran; Audi A3; Škoda Octavia; Seat Altera, Ibiza, Leon.

(Engine codes FSI: AXU, BAG, BKG, BLF, BLN, BLP, BMY, BTS; TSI: CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CBZB, CBZC, CDGA, CKMA, BLG, BMY, BWK; TFSI: CAVG, CAXA, CAXC, CBZA)

This tool set is used for the locking and positioning of camshafts, crankshaft and timing chain tensioner.

Necessary for checking and adjusting the camshaft timing, for example, when replacing a timing chain or during an engine repair.

Scope of Delivery:

KL-0280-602 KC Locking Tool Set, VW-Audi

Part No.	Description	Qty
KL-0280-6021 A	Setting Gauge for Camshaft	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-1681-111	Adaptor (M14x1.25) for TDC Positioning	1
KL-0280-6022	Locking Screw for Crankshaft	1
KL-0280-6023	Locking Pin for Camshaft	1
KL-0280-6029 A	Platic Storage Case	1



KL-0184-022

Counter-Holding Tool, VW

Universal application.

Essential tool for the VW-Audi, Seat, and Škoda 1.2, 1.4 and 1.6 litre petrol engines with 2- or 4-valve technology as well as for Škoda 1.9 SDI Diesel engines.

Installed in: VW Beetle, Bora, Caddy/Caddy Maxi, Eos, Fox, Golf, Golf Plus, Golf VI Cabrio, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A2, A3, A3 Convertible; Seat Alhambra, Altea/Altea XL, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo; Škoda Fabia, Fabia II, Octavia II, Octavia/Octavia Tour, Praktik, Roomster, Superb II, Yeti.

(Engine codes: AFK, AHW, APE, AQQ, ARR, ASY, AUA, AUB, AUS, AVY, AWY, AXP, AXU, AZD, AZQ, BAD, BAG, BBM, BBY, BBZ, BCA, BCB, BKG, BKY, BLF, BLG, BLN, BLP, BMD, BME, BMY, BTS, BUD, BWK, BXW, BZG, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CBZA, CBZB, CDGA, CGGA, CGGB, CGPA, CGPB, CHFA, CHFB, CKMA, CMAA)

This tool is designed to counter-hold pulleys, timing belt sprockets etc.

It is required when loosening/tightening the fastening screw.

The locking takes place either via the pins (Ø 11.5mm) which engage the holes of the pulleys/timing belt sprockets, or by fixing the counter-holding tool to the crankshaft timing belt sprocket by means of the M8 bolts.

Thanks to its special length of 704mm, this tool allows even very tight-fitting or stubborn fastening screws to be loosened with ease.

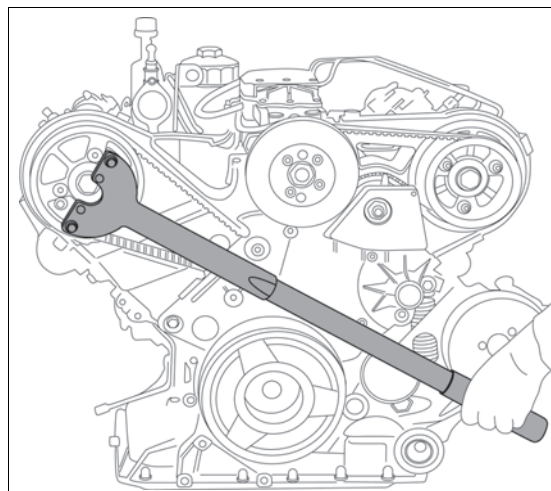
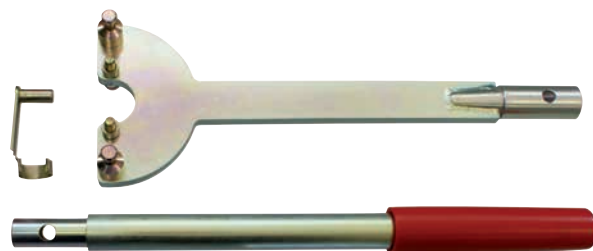
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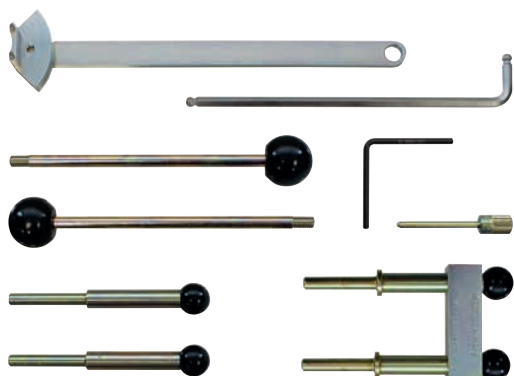
Overall length (of assembled tool):	704mm
Length of base tool:	351mm
Length of extension tube with protective handle:	403mm
Pin Ø:	11.5mm
Pin pitch:	99.5mm
Pin height:	31.5mm
Bolt thread:	M8
Bolt pitch:	45.5mm
Bolt height:	18mm

Scope of Delivery:

KL-0184-022 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0220	Counter-Holding Tool (Base Tool with Bolts)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1





KL-0280-751 K

Locking Tool Set, VW 1.4 and 1.6 16V

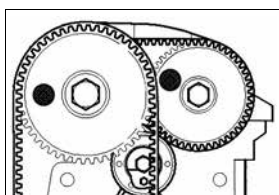
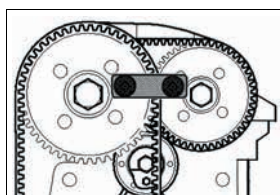
Suitable for use on VW-Audi, Seat and Škoda vehicles equipped with either a 1.4 16V or 1.6 16V petrol engine; such as Audi A2, A3, A4; VW Beetle, Bora, Caddy, Fox, Golf, Golf Plus, Jetta, Lupo, Passat, Polo, Touran; Seat Altea, Arosa, Cordoba, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Fabia II, Octavia II, Roomster etc. (Engine codes: 1F, AEE, AEH, AEX, AFK, AHW, AKL, AKS, AKV, ALM, ALZ, AME, APE, APF, APQ, AQQ, AQW, ARR, AUA, AUB, AUD, AUS, AVU, AVY, AXP, AYD, AZD, AZE, AZF, BAD, BAH, BBY, BBZ, BCA, BCB, BFQ, BFS, BGU, BKR, BKY, BLM, BSE, BSF, BUD, BXW, CCSA, CGGA, CGGB, CHGA, CMAA, CMXA)

Designed for the locking/positioning of camshafts, timing belt tensioners and auxiliary drive belt tensioners (Ribbed V-belt).

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-751 K Locking Tool Set, VW 1.4 and 1.6 16V

Part No.	Description	Qty
KL-0280-21	Locking Pin Set, VW-Audi (2-pc)	1
KL-0280-17	Locking Tool for Camshaft, VW-Audi	1
KL-0280-2202 A	Special Hexagon Socket Key, Size (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, VW-Audi, Seat, Škoda	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0286-11	Guide Pin Set for Front-End Carrier (2-pc)	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



KL-0280-63 K

Locking Tool Set, VW-Audi

Applicable to VW-Audi 1.4 16V, 1.4 FSI, 1.6, 1.6 16V, 1.6 FSI, 1.8 Turbo, 1.8 Turbo 20V, TFSI, 2.4, 2.7 Turbo and 2.8 petrol engines; as can be found on VW Beetle, Bora, Caddy, Eos, Golf, Jetta, Lupo, Passat, Polo, Sharan, Touran; Audi A3, A4, A6, A8, RS4, S3, S4, TT; Škoda Fabia, Oktavia, Superb; Seat Alhambra, Altera, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo.

(Engine codes: AEB, AEG, AEH, AFK, AGA, AGB, AGE, AGN, AGU, AHL, AHW, AJG, AJH, AJK, AJL, AJQ, AKL, AKQ, ALF, ALG, ALT, ALW, ALZ, AMB, AMK, AML, AMM, AMX, ANA, ANB, APC, APE, APF, APG, APK, APP, APR, APS, APT, APU, APX, APY, APZ, AQA, AQD, AQQ, AQX, AQY, ARC, ARE, ARJ, ARM, ARN, ARR, ARX, ARY, ARZ, ASJ, ASM, ATM, ATN, ATZ, AUA, AUB, AUM, AUQ, AUR, AUS, AVJ, AVU, AVY, AWA, AWC, AWT, AXP, AXU, AXW, AXX, AYD, AYP, AZD, AZH, AZJ, AZL, AZM, AZR, BAD, BAG, BAM, BBG, BBU, BBY, BBZ, BCA, BCB, BDV, BEH, BES, BEX, BFB, BFQ, BFS, BGB, BGU, BHD, BJX, BKG, BKY, BLF, BLN, BLP, BLR, BLX, BLY, BLZ, BMB, BPG, BPJ, BPY, BSE, BSF, BUD, BUL, BVX, BVY, BVZ, BWA, BWE, BWJ, BWT, BXW, BYK)

Tool set for the locking/positioning of engine shafts such as camshafts and crankshaft. It can also be used to lock/position and adjust the timing belt tensioner as well as to lock the ribbed V-belt tensioning element. The guide pins included in the set are required to pull the front-end carrier forwards. As a result, the removal of the front-end carrier is no longer necessary.

Scope of Delivery: KL-0280-63 K Locking Tool Set, VW-Audi

Part No.	Description	Qty
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, pin Ø 5mm	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-16	Holding Tool	1
KL-0280-17	Locking Tool for Camshaft, VW-Audi	1
KL-0280-21	Locking Tool for Camshaft, (2 pcs.)	1
KL-0280-221	Locking Pin (angled), Ø 4mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-6013 A	Tension Screw with Sleeve	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6103	Locking Pin, Ø 8mm	1
KL-0284-91	Tensioner Spanner, VW-Audi	1
KL-0286-11	Guide Pin Set for Front-End Carrier, VW-Audi	1
KL-0280-6390	Plastic Storage Case	1

KL-0280-17

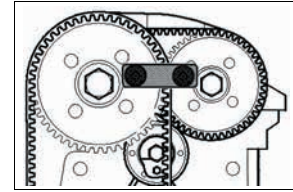
Locking Tool for Camshaft, VW-Audi

Applicable to VW-Audi, Seat, Škoda 1.4 and 1.6 petrol engines, as found in VW Lupo, Polo, Golf, Bora; Audi A2 etc.

(Engine codes: AFK, AHW, APE, AQQ, ARR, AUA, AUB, AUS, AVY, AXP, AZD, BBY, BBZ, BCA, BCB, BKY, BUD, BXW, CGGA, CGGB, CMAA etc.)

Designed to lock both camshaft sprockets in place.

Required when replacing a timing belt or during an engine repair.



Technical Data:

Weight:	340g
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KL-0280-21

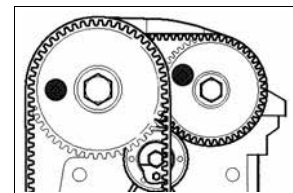
Locking Pin Set, VW-Audi

Applicable to VW-Audi 1.4 and 1.6 petrol engines as found in VW Lupo, Polo, Golf (IV), Bora; Audi A2.

(Engine codes: AHW, APE, AQQ, ARR, AUA, AUB, AVY, AZD, BAD, BBY, BBZ, BCA, BBC, BKY, BUD etc.)

Designed to lock both camshaft sprockets in place.

Required when replacing a timing belt or during an engine repair.



Technical Data:

Weight:	160g
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KL-0184-023

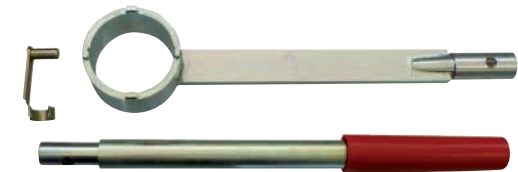
Counter-Holding Tool, VW

Applicable to VW 1.4 16V and 1.6 16V petrol engines; as installed in VW Beetle, Bora, Caddy/Caddy Maxi, Golf, Lupo, Polo.

This tool is used to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw.

Scope of Delivery: KL-0184-023 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0230	Counter-Holding Tool (base tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1



Technical Data:

Overall length (of assembled tool):	739mm
Length of extension tube with protective handle:	403mm
Length of base tool:	386mm

(Engine codes: AHW, APE, AQQ, ARC, ARR, ATN, AUA, AUB, AUS, AVY, AZD, BBY, BBZ, BCA, BCB, BKY, BUD)

KL-0280-601 A

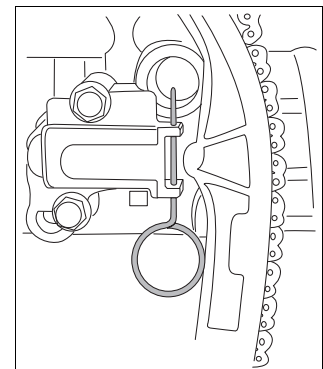
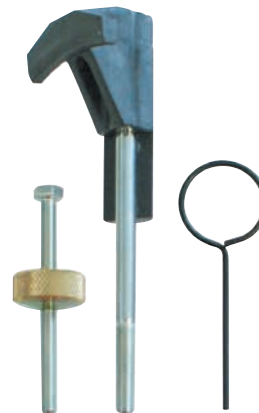
Locking Tool Set, VW-Audi/Seat/Škoda

Suitable for use on VW-Audi, Seat, Škoda 1.8 and 1.8 T TwinCam petrol engines (engine codes: ADR, AEB, AFY, AGN, AGU, AJH, AJL, AJP, AJQ, AMK, ANB, APG, APP, APT, APU, APX, APY, AQA, AQX, ARG, ARX, ARY, ARZ, AUM, AUQ, AVC, AWC, AWP, AWU, AWV, AYP and BAM) as well as 2.4, 2.7 and 2.8 V6 petrol engines (engine code: AGA, AGB, AGE, AJG, AJK, ALF, ALG, ALW, AML, AMM, AMX, APC, APR, APS, APZ, AQD, ARE, ARJ, ARN, ASJ, ASM, AZA, AZR, BDV and BES); as found in Audi A3, A4, A6, TT, S3; Seat Ibiza, Cordoba, Leon, Toledo, Alhambra; Škoda Octavia; VW Beetle, Golf, Bora, Passat, Sharan.

This tool set is designed to adjust camshaft timing chains and timing belt tensioners. It is required when changing a timing belt or a timing chain, and for engine repairs.

Scope of Delivery: KL-0280-601 A Locking Tool Set, VW-Audi/Seat/Škoda

Part No.	Description	Qty
KL-0280-6011 A	Holding Tool for Timing Chain Tensioner	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-6013 A	Tension Screw with Sleeve	1





(Engine codes: AAC, AEG, AGN, AGU, AJQ, AKR, ALT, AMB, AMK, APG, APK, APP, APT, APY, AQA, AQY, ARX, ARY, ARZ, ATM, AUM, AUQ, AVC, AVJ, AWC, AWF, AWG, AWT, AWU, AXA, AZG, AZH, AZJ, AZL, AZM, BAM, BBX, BEH, BEX, BFB, BFV, BJX, BKV, BLZ, BSX, BVP, BVR, CFMA)

KL-0280-752 K

Locking Tool Set, VW 1.8 and 2.0

Applicable to VW-Audi, Seat and Škoda vehicles equipped with either a 1.8 or 2.0 petrol engine; such as VW Beetle, Bora, Caddy, Golf IV Cabrio, Golf, Passat, Polo, Sharan, Touran, Transporter T4, Transporter T5; Audi A3/S3, A4, A6, TT; Seat Alhambra, Cordoba, Exeo, Ibiza, Leon, Toledo and Škoda Fabia, Octavia, Superb etc.

Designed to be used for the locking/positioning of camshafts and crankshaft, as well as for tensioning/relieving the tension on ribbed V-belts. An indispensable tool set when replacing a timing belt or timing chain, and during engine repairs.

Scope of Delivery: KL-0280-752 K Locking Tool Set

Part No.	Description	Qty
KL-0280-7521	Hex Screw, M5x60mm, with Nut	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-16	Holding Tool	1
KL-0280-2202 A	Special Hexagon Socket Key, Size (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6011 A	Holding Tool for Timing Chain Tensioner	1
KL-0280-6013 A	Tension Screw with Sleeve	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6103	Locking Pin, Ø 8mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, VW-Audi, Seat, Škoda	1
KL-0284-92	Tension Pulley Spanner (waf 16mm)	1
KL-0286-11	Guide Pin Set for Front-End Carrier	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1

6



(Engine codes: BYT, BZB, CABA, CABB, CABD, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CGYA)

KL-0280-762 K

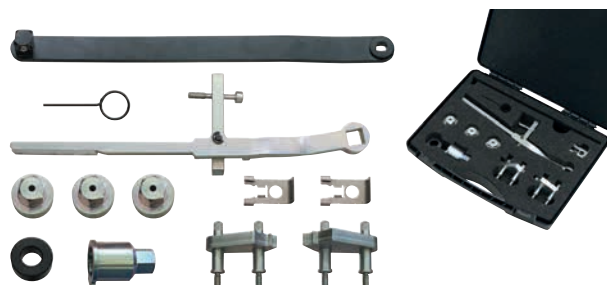
Locking Tool Set, VW 1.8 and 2.0 TFSI/TSI

Applicable to VW-Audi vehicles equipped with either a 1.8 or 2.0 TFSI/TSI petrol engine such as: Audi A3, A4, A5, Q5, TT; VW Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan; Seat Altea, Exeo, Leon, Toledo; Škoda Octavia II, Superb II, Yeti.

Designed for the locking/positioning of camshafts, as well as for the locking of the timing chain tensioner. The kit also includes tools for the removal and installation of the 4/3-way central valve found in camshaft phasing units. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-762 K Locking Tool Set, VW 1.8 and 2.0 TFSI/TSI

Part No.	Description	Qty
KL-0280-7621	Locking Tool for Camshaft (2 units)	1
KL-0280-7622	Removal/Installation Tool Set for Cam Phaser Central Valve (3-piece set)	1
KL-0280-7623	Pressure Piece	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-7639	Plastic Storage Case	1



(Engine codes: BYT, BZB, CABA, CABB, CABD, CADA, CAEA, CAEB, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CGYA, CJEB, CJSB)



KL-0280-763 K

Locking Tool Set, VW 1.8 and 2.0 TFSI/TSI

Applicable to VW-Audi vehicles equipped with either a 1.8 or 2.0 TFSI/TSI petrol engine such as: Audi A3, A4, A5, Q5, TT; VW Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan; Seat Altea, Exeo, Leon, Toledo; Škoda Octavia II, Superb II, Yeti.

Designed for the locking/positioning of camshafts, as well as for the locking of the timing chain tensioner. The kit also includes tools for the removal and installation of the 4/3-way central valve found in camshaft phasing units. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-763 K Locking Tool Set, VW 1.8, 2.0 TFSI / TSI

Part No.	Description	Qty
KL-0280-7622	Removal/Installation Tool Set for Cam Phaser Central Valve (3-piece set)	1
KL-0280-7623	Pressure Piece	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-7621	Locking Tool for Camshaft (2 units)	1
KL-0280-7631	Mounting Lever	1
KL-0280-7632	Locking Tool for Chain Tensioner	1
KL-0280-7633	Camshaft-Turning Tool	1
KL-0280-7639	Plastic Storage Case	1

KL-0184-025

Counter-Holding Tool, VW

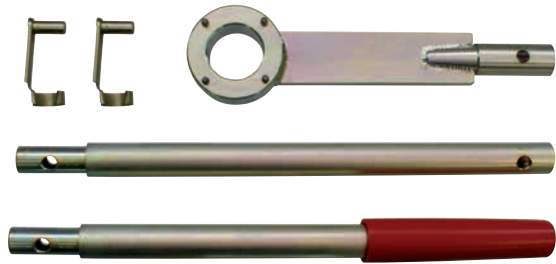
Applicable to VW-Audi, Seat, Škoda vehicles equipped with either a 1.8 or 2.0 TSI/TFSI engine; such as VW Golf, Eos, Jetta, Passat, Passat CC, Scirocco, Sharan, Tiguan; Audi A3, A4, A5, Q5, TT; Seat Toledo, Altea/Altea XL, Exeo, Leon; Škoda Octavia II, Superb II, Yeti.

(Engine codes: BYT, BZB, CABA, CABB, CABD, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CGYA)

For counter-holding the crankshaft vibration damper while loosening and tightening the crankshaft central screw.

Scope of Delivery: KL-0184-025 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0250	Counter-Holding Tool (Base Tool with Pins)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	1
KL-0184-0103	Folding Spring Bolt	2



Technical Data:

Length of assembled tool:	980mm
Length of base tool:	276mm
Length of extension tube:	400mm
Length of extension tube with protective handle:	403mm

KL-0280-765 K

Locking Tool Set, VW 2.0

Applicable to VW-Audi vehicles equipped with a 2.0 TFSI / FSI / TSI petrol engine; such as Audi A3, A4, A6, S3, TT; VW Eos, Golf, Jetta, Passat, Scirocco, Touran; Seat Altea, Exeo, Leon, Toledo; Škoda Octavia II.

(Engine codes: AWA, AXW, AXX, BGB, BHD, BHZ, BLR, BLX, BLY, BMB, BPG, BPJ, BPY, BUL, BVX, BVY, BVZ, BWA, BWA1, BWE, BWJ, BWT, BYD, BYK, BZC, CDLA, CDLB, CDLC, CDLF, CDMA)

Designed for the locking/positioning of camshafts, as well as of the timing belt-, ribbed V-belt- and timing chain tensioners. The kit also includes tools to loosen/tighten camshaft phasing units. An indispensable tool set when replacing a timing belt/timing chain or performing an engine repair.

Scope of Delivery: KL-0280-765 K Locking Tool Set, VW 2.0

Part No.	Description	Qty
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-221	Locking Pin (angled), Ø 4mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-6013 A	Tension Screw with Sleeve	1
KL-0280-7651	Locking Tool for Camshaft	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner	1
KL-0286-11	Guide Pin Set	1
KL-4051-3010	Screwdriver Bit Socket	1
KL-0280-7659	Plastic Storage Case	1



6

KL-0280-753 K

Locking Tool Set, VW 2.3 20V

Suitable for use on VW and Seat vehicles equipped with a 2.3 VR5 petrol engine; such as VW Beetle, Bora, Golf, Passat; Seat Toledo, LT etc.

(Engine codes: AGL, AGZ, AQN, AZX)

Designed for the locking/positioning of camshafts, as well as of the timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-753 K Locking Tool Set, VW 2.3 20V

Part No.	Description	Qty
KL-0280-951 A	Setting Gauge for Camshafts, VW-Audi	1
KL-0280-7531	Locking Pin, Ø 6mm	1
KL-0280-7532	Wedge	1
KL-0280-7533	Open End Spanner, Size (waf) 29mm	1
KL-4990-1107	Plastic Storage Case	1





(Motorcode:

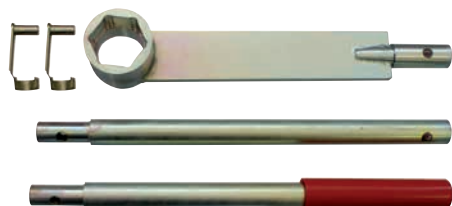
AES, AGZ, AQN, AUE, AYL, AZX, BDE, BHE, BHT, BSB, BTE etc.)

KL-0280-951 A

Setting Gauge for Camshafts, VW-Audi

Suitable for use on VW-Audi 2.3, 2.8, 2.9, 3.2 and 6.0 litre petrol engines as found in VW Golf, Bora, Vento, Corrado, Passat, Sharan, Transporter; Seat Leon, Toledo, Alhambra; Ford Galaxy.

This tool is designed for the locking/positioning of camshafts. It is required when changing timing chains and for engine repairs.



(Engine codes: AGZ, AQN, AUE, AXZ, AYL, AYT, AZZ, BAA, BAN, BAP, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHK, BHL, BHT, BJN, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BRN, BRP, BSB, BTE, BTT, BUB, BWS, CBRA)

Technical Data:

Length of assembled tool:	1.06m
Length of extension tube with protective handle:	403mm
Length of extension tube:	400mm
Length of base tool:	361mm

KL-0184-024

Counter-Holding Tool, VW

Applicable to VW-Audi, Seat vehicles, and Ford Galaxy equipped with either a 2.3, 2.8, 3.2, 3.6, 4.0 or 6.0 litre engine; such as VW Beetle, Bora, Sharan, Eos, Golf, Touareg, Transporter T5, Passat CC, Passat, Phaeton; Audi A3, A8, Q7, TT; Seat Alhambra, Leon, Toledo; Ford Galaxy.

Designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

Scope of Delivery: KL-0184-024 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0240	Counter-Holding Tool (base tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	1
KL-0184-0103	Folding Spring Bolt	2

KL-0280-764 K

Locking Tool Set, VW-Audi 2.4

Applicable to Audi vehicles equipped with a 2.4 petrol engine such as Audi A6, A6 Quattro etc. (Engine code: BDW)

Designed for the locking/positioning of camshafts, timing chain tensioner and crankshaft. The kit also includes tools to counter-hold, loosen/tighten camshaft sprockets /the camshaft phasing unit. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-764 K Locking Tool Set, VW-Audi 2.4

Part No.	Description	Qty
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, Pin, Ø 5mm	1
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, (5-piece set)	1
KL-0280-7561	Camshaft Locking Tool Set	1
KL-0280-7562	Locking Pin, M14x1.5	1
KL-0280-7593	Socket Insert, XZN-M14	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1

KL-0280-754

Locking Tool Set, VW 2.4, 2.7 and 2.8 30V

Suitable for use on VW-Audi and Škoda vehicles equipped with either a 2.4, 2.7 or 2.8 litre V6 petrol engine with 30 valves; such as VW Passat; Audi A4, A6, A6 Allroad etc.

Designed for the locking of camshafts, crankshaft and timing belt/V-ribbed belt tensioners. The kit also includes a tool to counter-hold the pulley when removing/installing the Viscous fan. An indispensable tool set when changing a timing belt/cam timing chain or performing an engine repair.

Scope of Delivery: KL-0280-754 Locking Tool Set, VW 2.4, 2.7 and 2.8 30V

Part No.	Description	Qty
KL-0280-7540 K	Locking Tool Set, VW 2.4, 2.7 and 2.8 30V	1
KL-0280-13	Locking Tool, Audi	1



(Engine codes: AGA, AJG, AJK, ALF, ALW, AML, AMM, AMX, APS, ARE, ARJ, ASM, BBG, BDV, BES)

KL-0280-7540 K

Locking Tool Set, VW 2.4, 2.7 and 2.8

Application as KL-0280-754; however the set does not include the KL-0280-13 locking tool for camshafts.

Scope of Delivery: KL-0280-7540 K Locking Tool Set, VW 2.4, 2.7 and 2.8

Part No.	Description	Qty
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6011 A	Holding Tool for Timing Chain Tensioner	1
KL-0286-11	Guide Pin Set for Front-End Carrier	1
KL-0280-7541	Crowfoot Wrench, Size (waf) 32mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



KL-0280-130

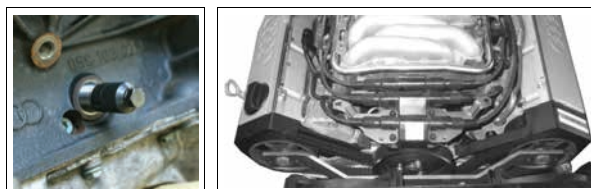
Locking Tool Set, Audi 2.4, 2.7, 2.8 V6

Suitable for use on vehicles equipped with either a V6 2.4, 2.7 or 2.8 (5-valve) VW-Audi petrol engine; such as Audi A4, A6; VW Passat; Škoda Superb. (Engine codes: AGA, AJG, AJK, ALF, ALG, ALW, AML, AMM, AMX, APS, ARE, ARJ, ASM, BBG, BDV, BES)

Designed for the locking of engine shafts such as camshafts and crankshaft. This tool set is required when replacing a timing belt or during an engine repair.

Scope of Delivery: KL-0280-130 Locking Tool Set Audi 2.4, 2.7, 2.8 V6

Part No.	Description	Application:
KL-0280-13	Locking Tool Audi V6 30V	Audi V6 2.4, 2.7 and 2.8 (5-valve) petrol engines. Engine codes: ALF, AMM, BDV
KL-0280-10	Locking Pin, Audi V6	VW-Audi V6 petrol engines and V6/V8 Diesel engines. (engine codes: ABC, AKE)



KL-0280-756 K

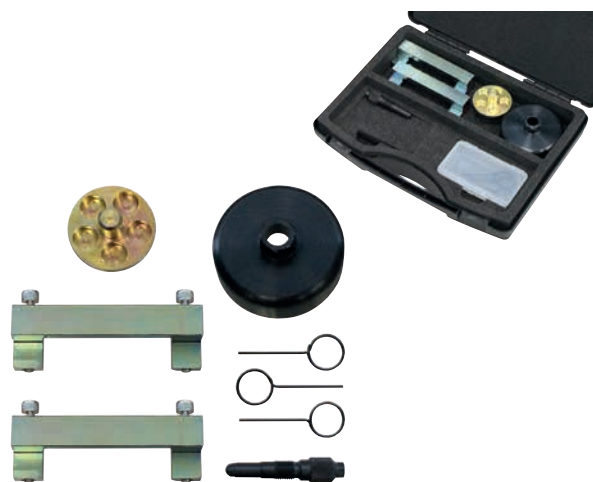
Locking Tool Set, 2.5 TFSI

Suitable for use on VW-Audi vehicles equipped with a 2.5 5-cylinder TFSI petrol engine; such as Audi TT, RS3 etc. (Engine codes: CEPA, CEPB)

This tool set is designed for the locking/positioning of camshafts, crankshaft and timing chain tensioner. Also includes a tool to pre-tension the timing chain. An indispensable tool kit when changing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-756 K Locking Tool Set, 2.5 TFSI

Part No.	Description	Qty
KL-0280-7562	Locking Pin, M14x1.5	1
KL-0280-7561	Locking Tool Set for Camshaft	1
KL-0280-7565	Tool for Timing Chain	1
KL-0280-7563	Adaptor for Crankshaft	1
KL-0280-7564	Retaining Pin Set, Ø 3mm (3-pc.)	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



KL-0280-11

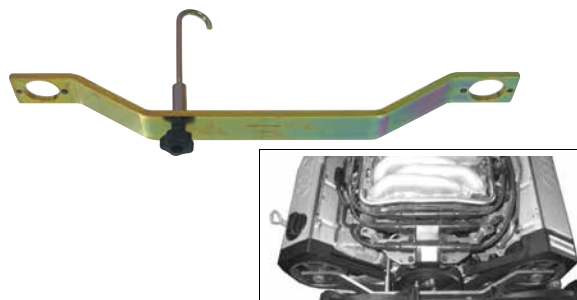
Locking Tool, Audi 2.6 V6

Applicable to Audi 2.6 V6 petrol engines with 2 valves per cylinder. (Engine code: ABC)

Designed to lock the camshafts when, for example, replacing a timing belt or performing an engine repair.

Technical Data:

Weight:	1.9kg
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KL-0280-759 K

Locking Tool Set, VW 2.8, 3.0, 3.2 V6 FSI

Suitable for use on VW-Audi vehicles equipped with either a 2.8, 3.0 or 3.2 V6 FSI petrol engine; such as VW Touareg and Audi A4, A5, Q5, A6, A6 allroad, A8 etc. (Engine codes: BDX, CAJA, CALA, CALB, CCAA, CCDA, CCEA, CGEA, CJB)

Designed for the locking/positioning of camshafts, crankshaft, balance shaft and timing chain tensioner. An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0280-759 K Locking Tool Set, VW 2.8, 3.0, 3.2 V6 FSI

Part No.	Description	Qty
KL-0280-7591	Locking Tool for Camshafts (2-pc.)	1
KL-0280-7592	Guide Pin Set (2-pc.)	1
KL-0280-7593	Socket Insert, XZN-M14	1
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, Ø 3mm (5-pc.)	1
KL-0280-7053	Crankshaft-Turning Tool	1
KL-0280-7562	Locking Pin, M14x1.5	1
KL-0280-6103	Locking Pin, Ø 8mm	1
KL-0149-131	Pin-Type Face Spanner, Ø14-100mm, pin Ø 5mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1

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KL-0280-755 K

Locking Tool Set, VW 2.8, 3.2, 4.0 and 6.0

Applicable to VW-Audi, Seat and Ford Galaxy 2.8, 3.2 VR6, 4.0 W8 and 6.0 W12 petrol engines as found in: VW Bora, Sharan, Eos, Golf, Transporter T4, Transporter T5, Passat, Phaeton, Touareg; Audi A3, TT, A8; Seat Alhambra, Leon, and Ford Galaxy etc.

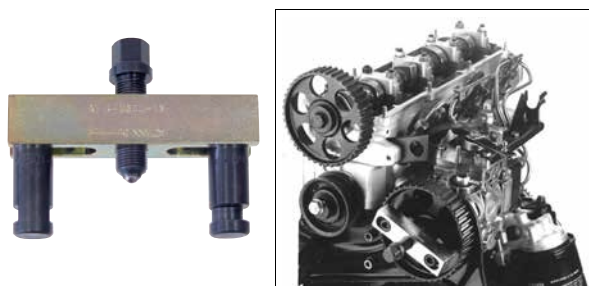
(Engine codes: AES, AUE, AYL, AYT, AZZ, BAA, BAN, BAP, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHT, BJN, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BRN, BRP, BSB, BTE, BTT, BUB, CBRA)

Professional tool set for the locking/positioning of camshafts, crankshaft and timing chain tensioner. Indispensable when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0280-755 K Locking Tool Set, VW 2.8, 3.2, 4.0 and 6.0

Part No.	Description	Qty
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-951 A	Setting Gauge for Camshafts, VW-Audi	1
KL-0280-7551	Camshaft Alignment Tool (2-piece set)	1
KL-0280-7552	Chain Tensioner-Holding Tool	1
KL-4990-1107	Plastic Storage Case	1



KL-0282-1

Puller for Timing Belt Sprocket

Universally suitable for use on all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm.

Note: The hole Ø must not be smaller than 20mm.

THE ideal tool for VW-Audi, Seat, Škoda, etc.

Designed to remove timing belt sprockets. Can be used, for example, for removing the injection pump sprocket from a distributor-type fuel injection pump.

Technical Data:

Pitch circle Ø:	70-100mm
Hole Ø (min.):	20mm
Drive:	waf 17mm

KL-0280-23 KA

Locking Tool Set, VW-Audi

Applicable to VW-Audi 3.0 V6 TwinCam petrol engines as found in Audi A4, A6, A8. (Engine codes: ASN, AVK, BBJ)

This tool set is designed for the locking/positioning of engine shafts such as camshafts and crankshaft. Also includes tools to lock, position and adjust the timing belt tensioner.

An indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0280-23 KA Locking Tool Set, VW-Audi

Part No.	Description	Qty
KL-0280-231	Setting Gauge for Camshafts (Pair)	1
KL-0280-232	Locking Pin for Crankshaft	1
KL-0280-233	Adjustment Tool for Camshaft Sprocket	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner VW-Audi	1
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm	1
KL-0286-11	Guide Bolt Set	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-2390 A	Plastic Storage Case	1



KL-0284-12

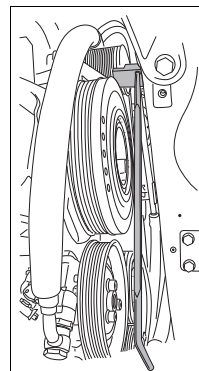
Tensioner Tool (Ribbed V-Belt)

Suitable for use on ribbed V-belts as found in VW Polo, Golf, Passat, T4 and Audi. (Engine codes: ASN, BBJ)

The **KL-0284-12** tensioner tool enables the automatic tensioner pulley to be released when replacing a ribbed V-belt.

Advantage:

The lever head attachment is reversible/interchangeable.



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KL-0280-757 K

Locking Tool Set, Audi 3.2 FSI

Applicable to Audi 3.2 FSI V6 petrol engines as found in Audi A4, A6, A8 etc. (Engine codes: AUK, BKH, BPK)

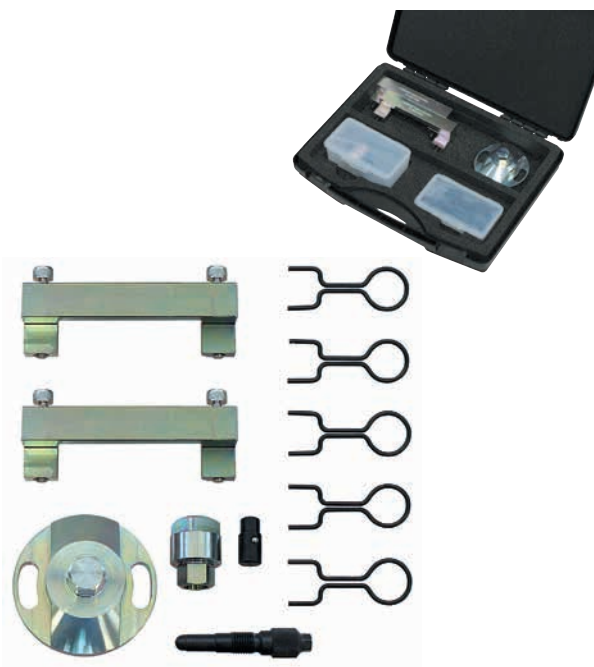
This set includes all the tools needed for the locking/positioning of camshafts and crankshaft, as well as for the locking of the timing chain tensioner.

An indispensable tool kit when replacing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0280-757 K Locking Tool Set, Audi 3.2 FSI

Part No.	Description	Qty
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, Ø 3mm (5-pc)	1
KL-0280-7053	Crankshaft-Turning Tool	1
KL-0280-7562	Locking Pin, M14x1.5	1
KL-0280-7561	Locking Tool Set for Camshaft	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1





KL-0280-758 K

Locking Tool Set, vw 3.2 and 3.6 VR6 FSI

Suitable for use on VW-Audi and Škoda vehicles equipped either with a 3.2 or 3.6 VR6 FSI petrol engine;

such as VW Passat, Touareg, Eos; Audi Q7 and Škoda Superb etc.

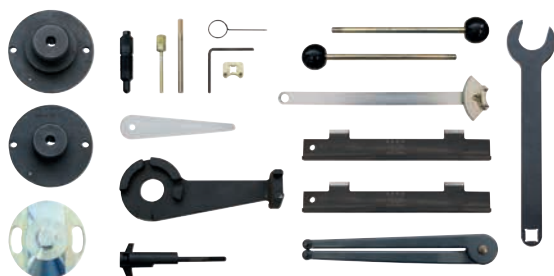
(Engine code: AXZ, BHK, BHL, BWS, CDVA)

Designed for the locking/positioning of camshafts and chain drive sprockets for high-pressure pump. The set also includes tools to lock the auxiliary drive belt tensioner (ribbed V-belt) in position. Indispensable tool kit when replacing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0280-758 K Locking Tool Set, VW 3.2 and 3.6 VR6 FSI

Part No.	Description	Qty
KL-0280-7582	Setting Plate	1
KL-0280-7551	Camshaft Alignment Tool Set (2-piece)	1
KL-0280-7583	Setting Tool for Fixing Drive Chain Sprockets	1
KL-0280-7581	Locking Pin (angled), Ø 4.9mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1



KL-0280-760

Locking Tool Set, vw 3.7/4.2 FSI

Suitable for use on VW-Audi vehicles equipped with either a 3.7 or 4.2 V8 FSI petrol engine;

such as VW Touareg, Phaeton and Audi S4, A6/S6/RS6, Allroad, S8 etc.

(Engine codes: ABZ, AHC, AKG, AKH, ANK, AQH, AQJ, ARS, ASG, AVP, AWN, AXQ, BAS, BAT, BBD, BBK, BCY, BFL, BFM, BGH, BGJ, BHF, BHX, BRV)

This tool set is designed for the locking/positioning of engine shafts such as camshafts and crankshaft. The kit also includes tools to lock/position and adjust the timing belt tensioner and the hall-effect sensor encoder wheel, as well as for the removal/installation of the Visco fan. Indispensable tool set when replacing a timing belt/timing chain or performing an engine repair.

Scope of Delivery:

KL-0280-760 Locking Tool Set, VW 3.7/4.2 FSI

Part No.	Description	Qty
KL-0280-7600 K	Locking Tool Set, VW 3.7/4.2 FSI	1
KL-0280-2401 A	Locking Tool for Camshaft	1

Scope of Delivery:

KL-0280-7600 K Locking Tool Set, VW 3.7 and 4.2 FSI

Part No.	Description	Qty
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, pin Ø 5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2402 A	Adjustment Tool for Timing Belt Tensioner	1
KL-0280-6011 A	Holding Tool for Timing Chain Tensioner	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0286-11	Guide Pin Set for Front-End Carrier, VW-Audi	1
KL-0280-7053	Crankshaft-Turning Tool	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-0280-7541	Crowfoot Wrench, Size (waf) 32mm	1
KL-0280-7532	Wedge	1
KL-0280-7601	Adjustment Tool for Camshaft	1
KL-0280-7602	Locking Tool for Camshaft (2 pcs)	1
KL-0280-7603	Locking Tool for Camshaft (2 pcs)	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



KL-0280-24 A

Locking Tool Set, VW-Audi 3.7 and 4.2

Suitable for use on VW-Audi 3.7 and 4.2 V8 petrol engines as found in Audi A6, S6, A8; VW Touareg, Phaeton.

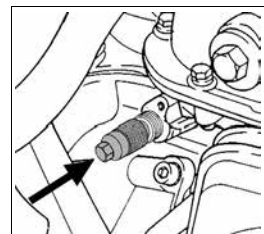
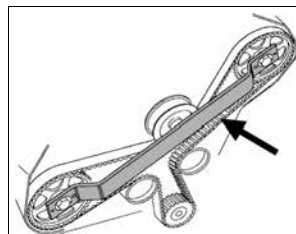
(Engine codes: ABZ, AKC, ANK, AQF, AQG, AQJ, ARS, ARU, ASG, AUW, AVN, AWN, AXQ, BGH, BGJ und BHX)

This tool set is designed for the locking/positioning of engine shafts such as camshafts and crankshafts. The kit also includes tools for locking/positioning and adjusting the timing belt tensioner.

It is required when replacing a timing belt or during an engine repair.

Scope of Delivery: KL-0280-24 A Locking Tool Set, VW-Audi 3.7 and 4.2

Part No.	Description	Qty
KL-0280-2401 A	Locking Tool for Camshaft	1
KL-0280-2402 A	Adjuster for Timing Belt Tensioner	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0180-3017	Retaining Pin, Ø 1.7mm	1



KL-0280-761 K

Locking Tool Set, VW-Audi 4.2, 5.0, 5.2 FSI

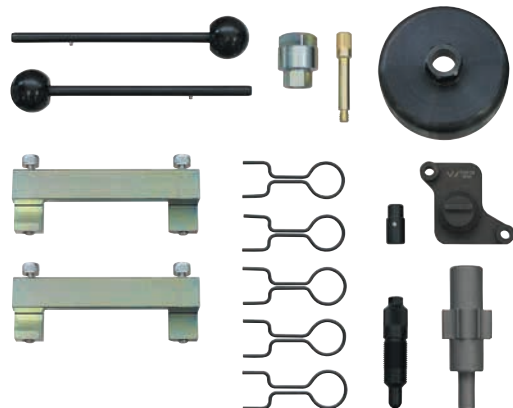
Applicable to VW-Audi vehicles equipped with either a 4.2 V8 FSI, 5.0 or 5.2 V10 FSI petrol engine such as VW Touareg; Audi RS4, RS6, S5 Coupé/Convertible, A6/ S6, Allroad, A8/S8, Q7, R8 etc.

(Engine codes: BAR, BNS, BSM, BUH, BUJ, BVJ, BXA, BYH, CAUA, CDRA)

The set is designed for the locking/positioning of camshafts, balance shaft, crankshaft, and timing chain tensioner. Also includes a tool to rotate the crankshaft. An indispensable tool kit when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-761 K Locking Tool Set, VW-Audi 4.2, 5.0, 5.2 FSI

Part No.	Description	Qty
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-7592	Guide Pin Set (2-piece set)	1
KL-0280-7565	Tool for Timing Chain	1
KL-0280-7561	Locking Tool Set for Camshaft	1
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, Ø 3mm (5-piece set)	1
KL-0280-7612	Crankshaft-Rotating Tool	1
KL-0280-7611	Locking Tool for Balance Shaft	1
KL-0280-7613	Locking Pin, M8	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1



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KL-0580-711 K

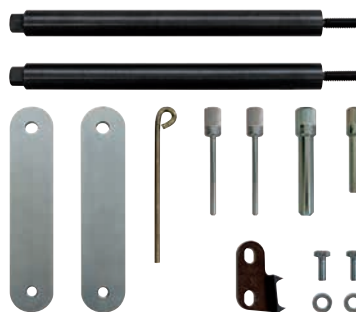
Locking Tool Set, Mini

Suitable for use on Mini 1.4 and 1.6 engines; as found in Mini Clubman, One D, Cooper D. (Engine codes: W16D16 (9HZ), W16D16U0, W17D14)

Designed for the locking/positioning of camshaft, crankshaft, high-pressure pump and flywheel. Kit also contains a tool to lock the auxiliary drive belt tensioner (ribbed V-belt). An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0580-711 K Locking Tool Set, Mini

Part No.	Description	Qty
KL-0580-7110	Support Guide Kit	1
KL-0580-7113	Locking Tool for Flywheel	1
KL-0680-2203 A	Locking Pin, Ø 8mm	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0580-1201	Retaining Pin	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1





KL-0580-82 KB

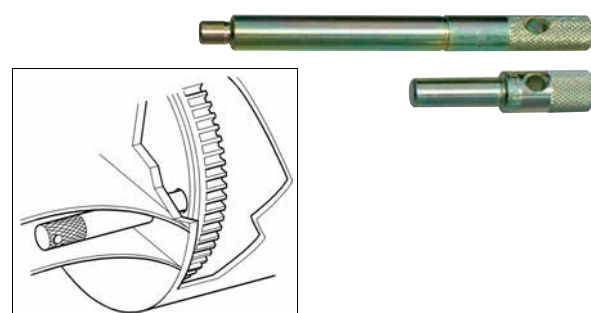
Locking Tool Set, BMW

Applicable to vehicles equipped with either a 1.6, 2.0 or 3.0 BMW engine such as BMW 1 Series, 3 Series, 5 Series, 7 Series, X1, X3, X5, X6; Mini Clubman, Countryman, Cooper D, Cooper SD, One D. (Engine codes: N47, N47-C16K1, N47-C16U1, N47-C20K1, N47-C20U1, N47-D20A, N47-D20C, N47-D20D, N47-D20K0, N47-D20K1, N47-D20O0, N47-D20O1, N47-D20U0, N47-D20U1, N47S-D20B, N47S-D20D, N47S-D20T0, N47T-D20K1, N47T-D20O1, N47T-D20U1, N57-D30A, N57-D30A0, N57-D30O0, N57-D30O1, N57-D30T0, N57-D30U0)

Designed for the locking/positioning of camshafts and crankshaft. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0580-82 KB Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-824 B	Locking Tool for Crankshaft	1
KL-4041-3160	Screwdriver Bit Socket, T60	1
KL-0580-1201	Retaining Pin	1
KL-0580-821 A	Locking Pin for Flywheel	1
KL-0580-822 A	Locking Tool for Camshaft	1
KL-0580-823 A	Turning Tool for Crankshaft Pulley	1
KL-0580-8290 A	Plastic Storage Case with Insert	1



KL-0580-100

Locking Tool Set, BMW

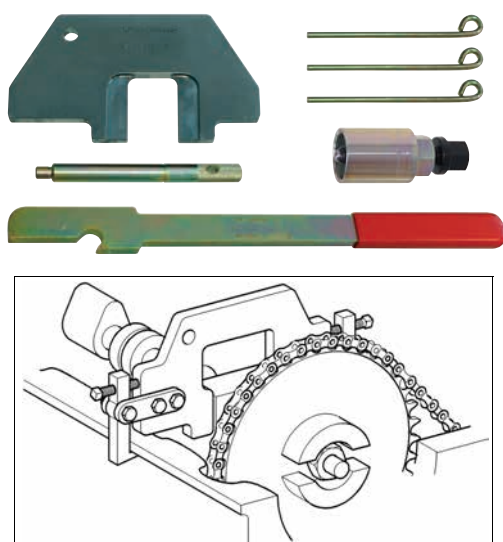
Applicable to BMW 4-cylinder diesel engines (M41), 6-cylinder diesel engines 2.5 (M51) as well as Opel/Vauxhall Omega 2.5 TD.

Designed to lock the flywheel and injection pump sprocket when replacing a timing chain or during an engine repair.

Scope of Delivery: KL-0580-100 Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-10	Locking Pin, Ø 11.8/8mm	1
KL-0580-11	Locking Pin, Ø 9.9mm	1

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KL-0580-101

Locking Tool Set, BMW

Applicable to BMW 1.7 4-cylinder and 2.5 6-cylinder Diesel engines as found in BMW 3 Series (E36), 5 Series (E34/39), 7 Series; Opel/Vauxhall Omega; Land Rover, Range Rover. (Engine codes: 256T, M41, M51)

This tool set is designed for the locking of camshaft and crankshaft, as well as for the tensioning and locking of cam chain tensioners. The kit also includes a tool for the removal of injection pump sprockets.

Technical Data:

Weight:	3.0kg
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Scope of Delivery: KL-0580-101 Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-2	Puller for Injection Pump Sprocket, BMW/Opel/Vauxhall	1
KL-0580-6	Locking Tool (M41/M51, camshaft)	1
KL-0580-10	Locking Pin, Ø 11.8/8mm (flywheel)	1
KL-0580-15	Tensioner Tool, Timing Chain, BMW	1
KL-0580-1201	Retaining Pin, Ø 4mm (chain tensioner)	3
KL-0580-1090	Plastic Storage Case	1



KL-0580-2

Puller for Injection Pump Sprocket

Application: BMW 4-cylinder Diesel engines (M41), 6-cylinder Diesel engines 2.5 (M51), also Opel/Vauxhall Omega 2.5 TD.

For loosening the injection pump sprocket from the shaft when dismantling an injection pump.

KL-0580-7 KB

Locking Tool Set, BMW

Applicable to BMW 2.0 4-cylinder Diesel engines (M47), 2.5 and 3.0 6-cylinder Diesel engines (M51, M57) as found in BMW 1 Series, 3 Series, 5 Series, 6 Series, 7 Series, X3, X5, X6.

(Engine codes: 204D4, 256D2, 306D2, 306D3, 306D4, 306D5, D30T2, YD30T2)

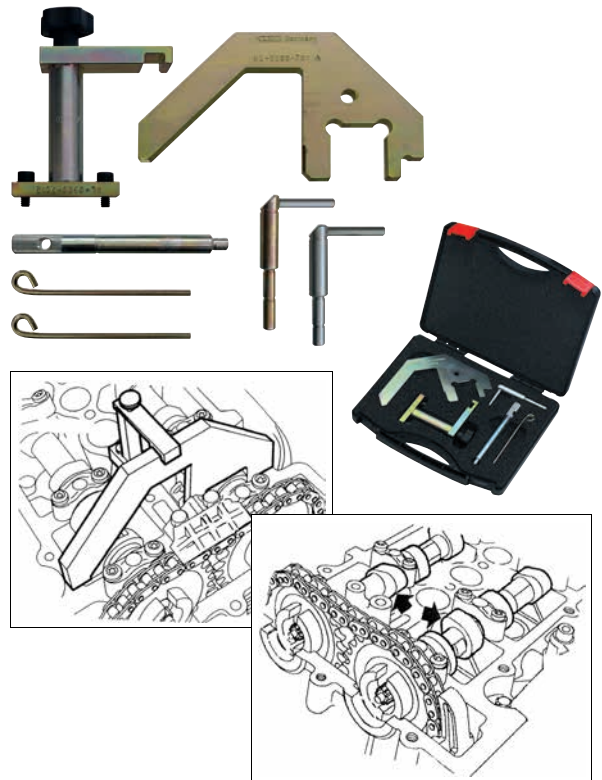
Designed for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as of the flywheel and timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Note: For turning the crankshaft, the KL-0580-823 A crankshaft tool (accessory) is needed.

Scope of Delivery:

KL-0580-7 KB Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-10	Locking Pin	1
KL-0580-1201	Retaining Pin	2
KL-0580-701 A	Locking Plate	1
KL-0580-702 A	Holder for Locking Plate	1
KL-0580-703 B	Locking Pin, Ø 8mm	1
KL-0580-704 B	Locking Pin, Ø 8.25/8mm	1
KL-0580-7090 A	Plastic Storage Case with Insert	1



KL-0580-21

Puller for Injection Pump Sprocket, BMW

Applicable to BMW M47, M47R, M47TU, M51, M57, M57TU engines. (204D1, 204D3/TD4, 256D1, 306D1, 306D1/TD6, Y25DT)

Tool for fixing the injection pump sprocket and pushing out the injection pump shaft. Necessary when removing an injection pump.

Scope of Delivery:

KL-0580-21 Puller for Injection Pump Sprocket, BMW

Part No.	Description	Qty
KL-0580-2101	Housing	1
KL-0580-2102	Spindle, M18x1.5, with O-Ring	1
KL-0580-2103	Pressure Piece	1
KL-0580-2104	Threaded Sleeve	1



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KL-0580-22

Injection Pump Removal Tool

Applicable to BMW vehicles equipped with either an N47, N47S, N47T or N57 engine, e.g. E90.

Tool for fixing the injection pump sprocket when removing the injection pump.

Scope of Delivery:

KL-0580-22 Injection Pump Removal Tool

Part No.	Description	Qty
KL-0580-2201	Threaded Sleeve	1
KL-0580-2202	Drive (waf) 20/12mm	1



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm





KL-0580-712 K Locking Tool for Flywheel

Applicable to BMW, Mini 1.4, 1.6, 1.8, 2.0, 2.5, 3.0 petrol and Diesel engines (M47T2, M47TU, M57T2, M57TU, M67, N45, N45T, N46, N46T, N51, N52, N53, N54, W17) as fitted to e.g. BMW 1 Series, 3 Series, 5 Series, 6 Series, 7 Series, X1, X3, X5, X6, Z4 and Mini One D.

(Engine codes: N43 B16A/AA, N43 B16AA, N43 B16AA/OO, N43 B20A, N43 B20A/AA, N43 B20AA, N43 B20AY, N43 B20K0, N45 B16A, N45 B20AA, N45T B16AC, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2, N52 B25A, N52 B25AE, N52 B25AF, N52 B25BE, N52 B25O1, N52 B30A, N52 B30AF, N52K B25A, N52K B25A/O1, N52K B25AE, N52K B30A, N52K B30A/O1, N52K B30AE, N52K B30AF, N53 B25A, N53 B30A, N53 B30A/OO, N54 B30A, N54 B30A/AA, W17D14)

The tool is needed to lock the flywheel while loosening/tightening the crankshaft central screw.

Scope of delivery:

KL-0580-712 K Locking Tool for Flywheel

Part No.	Description	Qty
KL-0580-712	Locking Tool for Flywheel	1
KL-4990-1003	Plastic Storage Case	1



KL-0580-8133 A Counter-Holding Tool for Crankshaft

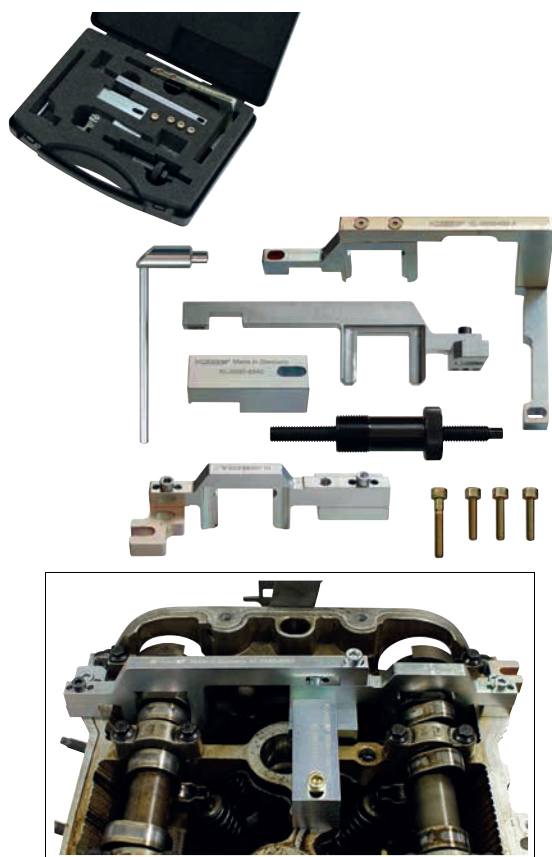
Applicable to BMW and Mini 1.4, 1.6, 1.8 and 2.0 petrol engines.

(Engine codes: N12, N14, N16, N18, N40, N42, N45, N45T, N46, N46T)

This tool is designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

For example, included in tool set **KL-0580-813 KB**.

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KL-0580-83 KA Locking Tool Set, BMW 1.4 and 1.6 16V

Applicable to Mini 1.4 and 1.6 litre engines (engine codes: N12, N14, N16) and PSA engines (engine codes: EP3, EP3C, EP6, EP6C, EP6CDT, EP6DT, EP6DTE, EP6DTS) as installed in Mini Cooper (R55, R56), Mini Cooper S (R55, R56), Mini One (R56), Citroën C4, C4 Picasso and Peugeot 207, 308.

Designed to be used for locking/positioning camshafts and crankshaft as well as for adjusting the VANOS adjustment units. Kit also includes a tool to pre-tension the timing chain tensioner.

An indispensable tool set when replacing a timing chain, removing and installing VANOS adjustment units or performing engine repairs.

Scope of Delivery:

KL-0580-83 KA Locking Tool Set, BMW 1.4 and 1.6 16V

Part No.	Description	Qty
KL-0580-831 A	Locking Pin for Flywheel	1
KL-0580-832 A	Locking Tool for Camshaft	1
KL-0580-833 A	Locking Tool for Camshaft	1
KL-0580-834 A	Locking Tool for Camshaft	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8390 A	Plastic Storage Case	1

KL-0580-44 KA

Locking Tool Set, BMW N40 and N45

Applicable to BMW 1.6 (N40 / N45) TwinCam petrol engines.

Fitted to BMW 1 Series (E81/E87) and 3 Series (E46/E90).

(Engine codes: N40 B16A, N45 B16A, N45T B16AC)

Tool set for the locking/positioning of camshafts and crankshaft, as well as for pre-tensioning the timing chain tensioner. The kit also includes a tool to adjust the VANOS adjustment units. Indispensable kit when replacing a timing chain, removing and installing VANOS adjustment units or performing an engine repair.

For accessories, please see **KL-0580-813 KB**.

Scope of Delivery: KL-0580-44 KA Locking Tool Set, BMW N40 and N45

Part No.	Description	Qty
KL-0580-441 A	Locking Tool for Camshaft (inlet)	1
KL-0580-442 A	Locking Tool for Camshaft (exhaust)	1
KL-0580-443 A	Setting Gauge (Vanos)	1
KL-0580-8111 A	Retaining Pin for Flywheel	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8115-3 A	Knurled Screw	1
KL-0580-4490 A	Storage Case with Insert	1



KL-0580-813 KC

Locking Tool Set, BMW

Application: 1.6, 1.8 and 2.0 TwinCam petrol engines. For example, fitted to BMW 1 Series (E81, E82, E87, E88), 3 Series (E46, E90, E91, E92, E93), 5 Series (E60, E61), X1 (E84), X3 (E83), Z4 (E85, E86). (Engine codes: N40 B16A, N42 B18A, N42 B20A, N45 B16A, N45T B16AC, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2)

Very useful tool set for locking/positioning balance shafts, locking the timing chain tensioner, as well as for holding the crankshaft in position while loosening/tightening the crankshaft central screw.

For accessories, please see **KL-0580-44 KA, KL-0580-810 KA**.

Scope of Delivery: KL-0580-813 KC Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-8131 A	Alignment/Locking Tool for Balance Shaft	1
KL-0580-8132 A	Setting Gauge for Balance Shaft	1
KL-0580-8133 A	Counter-Holding Tool for Crankshaft	1
KL-0580-8134 A	Support for Counter-Holding Tool	1
KL-0580-1201	Retaining Pin, Ø 4mm	1
KL-0580-8111 A	Locking Pin for Flywheel	1
KL-0580-7513	Alignment/Locking Tool for Balance Shaft	1
KL-0580-8139 A	Plastic Storage Case	1



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KL-0580-751 K

Locking Tool Set, BMW

Applicable to 1.6 and 2.0 BMW engines; as found in BMW 1 Series, 3 Series, 5 Series.

(Engine codes: N43-B16A, N43-B16AA, N43-B16O0, N43-B20A, N43-B20AA, N43-B20AY, N43-B20K0, N43-B20U0)

These tools are used for the locking/positioning of engine shafts such as camshafts, crankshaft, balance shaft and camshaft sensor wheels, as well as for pre-tensioning the timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0580-751 K Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-7513	Alignment/Locking Tool for Balance Shaft	1
KL-0580-7512	Locking Tool for Camshaft Sensor	1
KL-0580-7511	Locking Tool for Camshaft	1
KL-0580-1201	Retaining Pin	2
KL-0580-8111 A	Locking Pin for Flywheel	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-7519	Plastic Storage Case	1





KL-0580-752 K Locking Tool Set, Mini

Applicable to Mini 1.6 petrol engines as found in Mini One, Cooper and Cooper S. (Engine codes: W10B16AA, W10B16BA, W11B16AA)

Designed for the locking/positioning of camshafts. Kit also contains tools to pre-tension the timing chain tensioner and to support the engine. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0580-752 K Locking Tool Set, Mini

Part No.	Description	Qty
KL-0580-7521	Pre-Tensioning Tool for Timing Chain	1
KL-0580-7522	Locking Tool for Camshaft	1
KL-0580-7523	Retaining Tool	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



KL-0580-754 K Belt Tool Set, Mini

Suitable for use on Mini One and Cooper S 1.6 petrol engines. (Engine codes: W10, W11)

Designed for the tensioning, releasing and locking of V-ribbed belt tensioners.

Scope of Delivery:

KL-0580-754 K Belt Tool Set, Mini

Part No.	Description	Qty
KL-0580-7541	Adjustment Tool for V-ribbed Belt Tensioners	1
KL-0580-7542	Adjustment Tool for V-ribbed Belt Tensioners	1
KL-0580-7543	Retaining Pin, Ø 4mm	1
KL-0580-7544	Retaining Pin, Ø 4.5mm	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1

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KL-0580-810 KA Locking Tool Set

Applicable to BMW 1.8 and 2.0 TwinCam (DOHC) petrol engines as fitted to: BMW 1 Series (E87), 3 Series (E46/E90/E91), 5 Series (E60 / E61), X1 (E84), X3 (E83) and Z4 (E85).

(Engine codes: N42 B18A, N42 B20A, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2)

This tool set is used for the locking/positioning of engine shafts such as camshafts and crankshaft as well as for the alignment of the VANOS Adjustment Unit.

It is required when replacing a timing chain, for the removal and replacement of camshafts and VANOS Adjustment Units, and for engine repairs.

Scope of Delivery:

KL-0580-810 KA Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-8111 A	Retaining Pin for Flywheel	1
KL-0580-8112 A	Camshaft Rotation Tool	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8114 A	Setting Gauge (Vanos)	1
KL-0580-8115 A	Locking Tool for Camshaft	1
KL-0580-8121 A	Torsion Spring Removal/Installation Tool	1
KL-0580-8122 A	Locking Tool for Camshaft	1
KL-0580-8123 A	Locking Tool for Camshaft	1
KL-0580-8124 A	Clips (8 units)	1
KL-0580-8125 A	Holding Tool for Bearing Bracket	1
KL-0580-8190	Plastic Storage Case	1



KL-0580-811 KA

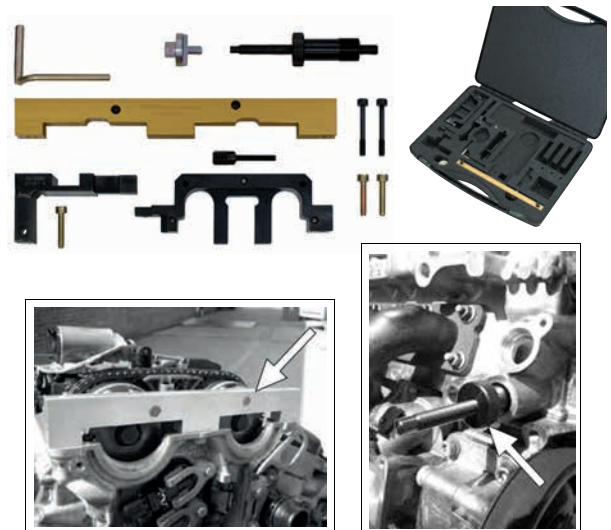
Locking Tool Set, BMW

Applicable to BMW 1.8 and 2.0 TwinCam (DOHC) petrol engines, e.g. as found in: BMW 1 Series (E87), 3 Series (E46/E90/E91), 5 Series (E60/E61), X1 (E84), X3 (E83) and Z4 (E85). (Engine codes: N42 B18A, N42 B20A, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2)

This tool set is used for checking/setting the camshaft timing, as well as for the removal, installation, and alignment of VANOS Adjustment Units.

Scope of Delivery: KL-0580-811 KA Locking Tool Set ,BMW

Part No.	Description	Qty
KL-0580-8111 A	Retaining Pin for Flywheel	1
KL-0580-8112 A	Camshaft Rotation Tool	1
KL-0580-8113 A	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8114 A	Setting Gauge (VANOS)	1
KL-0580-8115 A	Locking Tool for Camshaft	1
KL-0580-8190	Storage Case with Insert	1



KL-0580-812 KA

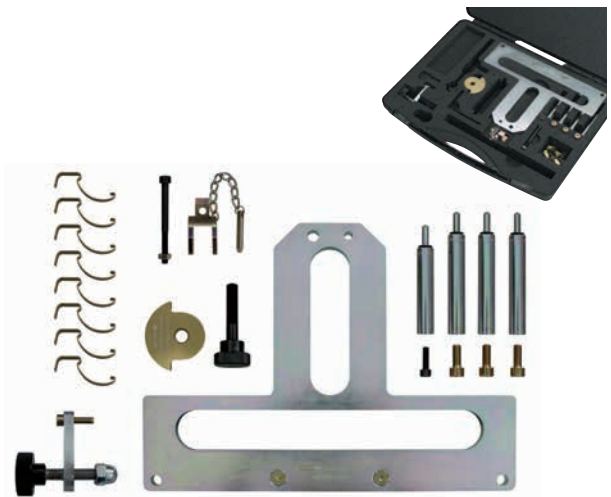
Locking Tool Set, BMW

Applicable to BMW 1.8 and 2.0 TwinCam (DOHC) petrol engines as found in: BMW 1 Series (E87), 3 Series (E46/E90/E91), 5 Series (E60/E61), X1 (E84), X3 (E83) and Z4 (E85). (Engine codes: N42 B18A, N42 B20A, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2)

This tool set is designed to be used in conjunction with the KL-0580-811 KA for the removal and installation of camshafts.

Scope of Delivery: KL-0580-812 KA Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-8121 A	Torsion Spring Removal/Installation Tool	1
KL-0580-8122 A	Locking Tool for Camshaft	1
KL-0580-8123 A	Locking Tool for Camshaft	1
KL-0580-8124 A	Clips (8 units)	1
KL-0580-8125 A	Holding Tool for Bearing Bracket	1
KL-0580-8190	Storage Case with Insert	1



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KL-0580-43 KA

Locking Tool Set, BMW

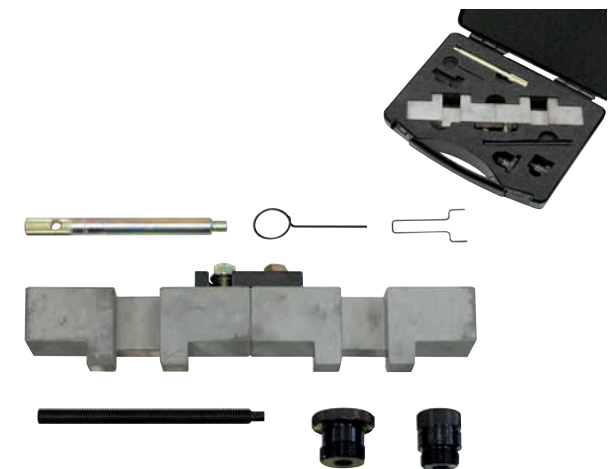
Applicable to BMW 4- and 6-cylinder TwinCam (DOHC) engines M42, M44, M50, M52, M52TU, M54 and M56 with VANOS System.

This tool set is designed to be used for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as for pre-tensioning the timing chain when adjusting the camshaft timing. It is required, for example, when replacing a timing chain, removing/installing a VANOS System, or during an engine repair.

For accessories, please see KL-0580-41 KA, KL-0580-42 KA.

Scope of Delivery: KL-0580-43 KA Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-431 A	Pre-Tensioning Tool for Timing Chain, BMW	1
KL-0580-432 A	Retaining Pins for Chain Tensioner	1
KL-0580-4	Locking Tool, BMW M42 and M50	1
KL-0580-10	Locking Pin, Ø 11.8/8mm	1
KL-0580-4390	Plastic Storage Case	1



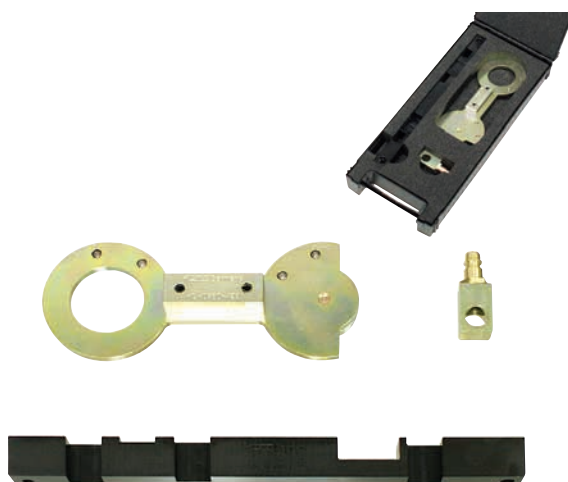
KL-0580-41 A

Adjusting Wrench, BMW

Applicable to BMW 4- and 6-cylinder TwinCam (DOHC) engines M42, M44, M50 and M52 with VANOS system.

Required when removing and installing VANOS units with diaphragm spring.





KL-0580-42 KA

Tool Set for BMW Double-VANOS

Applicable to BMW TwinCam (DOHC) petrol engines M52TU, M54 und M56 (206S4, 226S1, 256S4, 256S5, 286S2, 306S3) as found in 3 Series (E46, Z3); 5 Series (E39, E60, E61); 7 Series (E38, E65, E66); X3 (E83); X5 (E53); Z4 (E85).

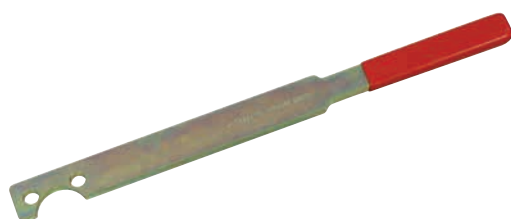
This tool set allows for the trouble-free and professional removal and installation of Double-VANOS Adjustment Units.

For accessories, please see **KL-0580-43 KA**.

Scope of Delivery:

KL-0580-42 KA Tool Set for BMW Double-VANOS

Part No.	Description	Qty
KL-0580-421	Compressed Air Adaptor	1
KL-0580-422	Setting Gauge (VANOS)	1
KL-0580-423	Mounting Plate	1
KL-0580-4290 A	Plastic Storage Case	1



KL-0582-1

Holding Tool for Viscous Fan, BMW

Suitable for use on BMW engines, e.g. M20 and M30.

Designed to counter-hold the fan shaft when removing the viscous fan.

Technical Data:

Hole pitch:	38mm
Weight:	500g



KL-0582-2

Holding Tool for Viscous Fan, BMW

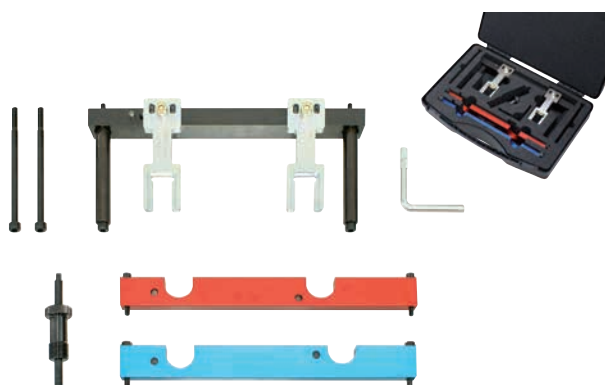
Suitable for use on BMW engines, e.g. M10, M20, M21, M30, M50, M51, M52, M52TU, M54, M56, M70, M73, S14 and S38.

Designed to counter-hold the fan shaft when removing the viscous fan.

Technical Data:

Hole pitch:	44,5mm
Weight:	400g

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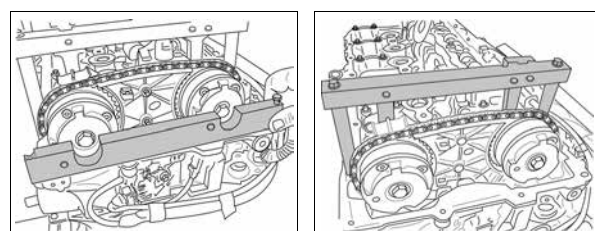
KL-0580-45 KA

Locking Tool Set, BMW N51, N52, N52K, N53, N54 and N55

Suitable for use on BMW 2.5, 3.0 and 3.5 litre petrol engines with Valvetronic (Engine codes: N51, N52, N52K, N55) or with direct injection (Engine codes: N53, N54) as found in 1 Series (E81 / E82 / E87); 3 Series (E90 / E91 / E92 / E93); 5 Series (E60 / E61); 6 Series (E63 / E64); 7 Series (E65 / E66); X3 (E83); X5 (E70); Z4 (E85 / E86).

This tool set is designed to be used for the locking/positioning of camshafts and crankshaft, as well as for pre-tensioning the timing chain tensioner. It also includes a tool for adjusting the VANOS adjustment units.

An indispensable tool set when replacing a timing chain, removing/installing VANOS adjustment units and during engine repairs.



Scope of Delivery:

KL-0580-45 K Locking Tool Set, BMW N51, N52, N52K, N53, N54 and N55

Part No.	Description	Qty
KL-0580-451 A	Locking Pin for Flywheel	1
KL-0580-452 A	Locking Tool for Camshafts	1
KL-0580-453 A	Setting Gauge (Vanos), blue	1
KL-0580-454 A	Setting Gauge (Vanos), red	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-4590 A	Plastic Storage Case with Insert	1

KL-0580-753 K

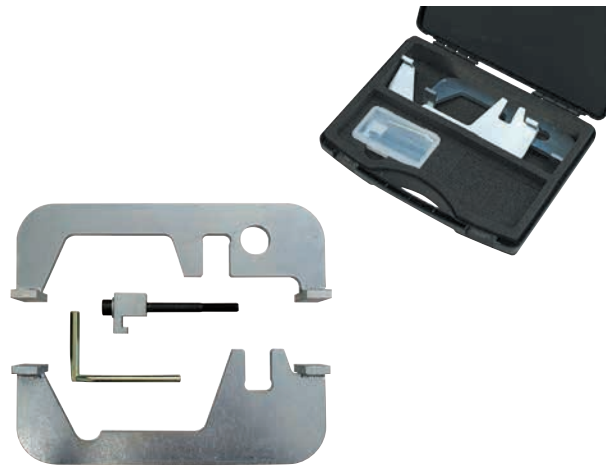
Locking Tool Set, BMW

Applicable to BMW 3.6, 4.0, 4.4, 4.8 and 6.0 litre engines as found in BMW 5 Series, 6 Series, 7 Series, X5. (Engine codes: N62-B36A, N62-B40A, N62-B44A, N62-B48A, N62-B48B, N73-B60A)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as for locking the flywheel. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0580-753 K Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-8111 A	Retaining Pin for Flywheel	1
KL-0580-7531	Locking Tool for Inlet Camshaft	1
KL-0580-7532	Locking Tool for Exhaust Camshaft	1
KL-0580-7533	Cam Tool Holder	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



KL-0123-1 A

Reaction Wrench, Size (waf) 32mm

Designed to counter-hold the viscous clutch drive shaft when removing/installing the viscous clutch on **BMW and Ford** vehicles.



Technical Data:

Size (waf):	32mm
Length:	280mm
Height:	11mm
Weight:	340g

KL-0380-701 K

Locking Tool Set, Mercedes OM651

Applicable to Mercedes-Benz vehicles with a 2.1 litre as well as Jeep vehicles with a 2.2 litre Common Rail Diesel engine. Engines fitted, for example, to: Mercedes-Benz C-Class (W204), E-Class (W207, W212), GLK (X204), CLS (W218) and Sprinter (W906); as well as Jeep Compass (MK) etc.

(Engine codes: OM 651.911, 651.912, 651.913, 651.916, 651.924, 651.925, 651.955, 651.956, 651.957, 651.961 and 651)

For locking camshafts and balance shafts, as well as for positioning/turning the crankshaft. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0380-701 K Locking Tool Set, Mercedes OM651

Part No.	Description	Qty
KL-0380-7011	Locking Tool, Balance Shaft	1
KL-0380-7012	Locking Tool Set, Camshaft	1
KL-0380-7013	Turning Tool, Crankshaft	1
KL-4990-1107	Plastic Storage Case	1



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KL-0380-7010 K

Locking Tool Set, Mercedes OM651

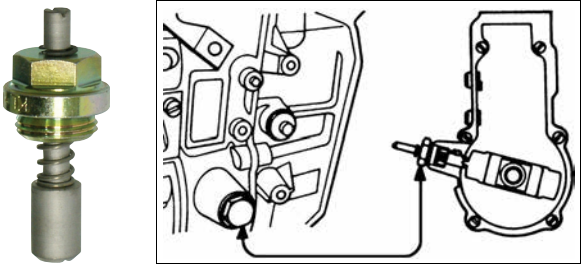
Applicable for Mercedes vehicles with a 2.1 litre, as well as Jeep vehicles with a 2.2 litre Common Rail Diesel engine. Engines fitted to, e.g.: Mercedes C-Class (W204), E-Class (W207, W212), GLK (X204), CLS (W218) and Sprinter (W906), as well as to Jeep Compass (MK) etc. (Engine codes: OM 651.911, 651.912, 651.913, 651.916, 651.924, 651.925, 651.955, 651.956, 651.957, 651.961 and 651)

For locking the camshafts as well as for positioning/turning the crankshaft. An indispensable tool kit when changing a timing chain or performing an engine repair.

Scope of Delivery: KL-0380-7010 K Locking Tool Set, Mercedes OM651

Part No.	Description	Qty
KL-0380-7012	Locking Tool Set, Camshaft	1
KL-0380-7013	Turning Tool, Crankshaft	1
KL-4990-1107	Plastic Storage Case	1





KL-0343-3 Locking Screw

Suitable for use on Mercedes engines OM601, OM602 and OM603.

The injection pump locking screw allows the injection pump (VE pump) to be removed without loss of pump timing.



KL-0343-5 Locking Screw

Suitable for use on Mercedes engines OM602, OM604, OM605 and OM606 with Lucas Injection Pump.

The injection pump locking screw allows the injection pump to be removed without the loss of pump timing.

Technical Data:

Weight:	27g
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KL-0363-50 K Locking Tool Set, Mercedes

Applicable to Mercedes petrol engines M102, M103, M104, M111, M112, M113, M137, M155, M156, M272, M273, as well as Diesel engines OM601, OM602, OM603, OM605, OM606, OM611, OM612, OM613, OM629, OM642.

Designed for the locking/positioning of camshafts and for locking the flywheel. An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0363-50 K Locking Tool Set, Mercedes

Part No.	Description	Qty
KL-0363-501	Locking Device for Flywheel	1
KL-0363-502	Locking Device for Flywheel	1
KL-0384-10	Locking Tool	2
KL-0363-5090	Plastic Storage Case	1



KL-0384-10 Locking Tool, Mercedes

Applicable to Mercedes-Benz A-, B-, C-, CLC-, CLK-, CLS-, E-, G-, GL-, M-, R-, S-, SLK-, V-Class, Sprinter, Vito and Viano vehicles equipped with either a petrol engine (Engine codes: M104, M111, M112, M119, M120, M272, M273) or a Diesel engine with 4-valve-technology.

(Engine codes: OM605, OM606, OM611, OM612, OM613, OM614, OM628, OM629, OM640, OM642, OM643, OM646, OM646 EVO, OM647, OM648, OM649)

Designed to lock the camshafts when removing the cylinder head.

Technical Data:

Ø:	5.8/6.0mm
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KL-0312

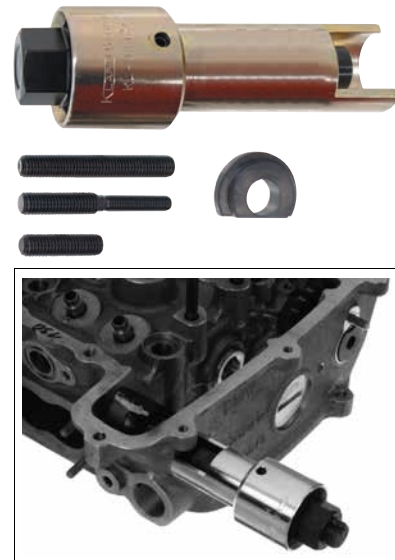
Puller for Chain Slider Bolts, Mercedes/BMW

Applicable to chain slider bolts on Mercedes and BMW; the kit includes puller bolts and adaptor disc.

Scope of Delivery:

KL-0312 Puller for Chain Slider Bolts, Mercedes/BMW

Part No.	Description	Qty
KL-0312-100	Puller (base tool with spindle)	1
KL-0312-0010	Puller Bolt, M6x30mm	1
KL-0312-0011	Puller Bolt, M8x30mm	1
KL-0312-0012	Puller Bolt, M8x60mm	1
KL-0312-0013	Adaptor Disc	1



KL-0312-2

Puller for Chain Slider Bolts, Mercedes/BMW

Applicable to chain slider bolts on Mercedes and BMW; the kit includes puller bolts and adaptor disc.

This short version is required for repairs where the radiator has not to be removed from the vehicle.

Scope of Delivery:

KL-0312-2 Puller for Chain Slider Bolts, Mercedes/BMW

Part No.	Description	Qty
KL-0312-200	Puller (base tool)	1
KL-0312-0010	Puller Bolt, M6x30mm	1
KL-0312-0011	Puller Bolt, M8x30mm	1
KL-0312-0012	Puller Bolt, M8x60mm	1
KL-0312-0013	Adaptor Disc	1



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KL-0380-7101

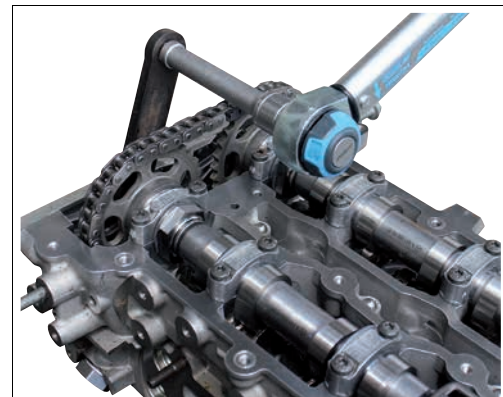
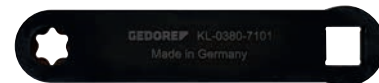
External Hexalobular Socket, E14-1/2"

Suitable for use on Mercedes vehicles with a 2.1 litre, as well as Jeep vehicles with a 2.2 litre (OM651) Common Rail Diesel engine.

Engines fitted to: Mercedes C-Class (W204), E-Class (W207, W212), GLK (X204), CLS (W218) and Sprinter (W906), as well as Jeep Compass (MK) etc.

(Engine codes: OM651, 651.911, 651.912, 651.913, 651.916, 651.924, 651.925, 651.955, 651.956, 651.957, 651.961)

For the professional loosening/tightening of fastening screws (with Torx E14 profile) found at camshaft sprockets. The tool is used in conjunction with a 1/2" reversible ratchet or a 1/2" torque wrench. The external hexalobular socket is provided with an engraved torque conversion formula allowing the user to easily recalculate the necessary torque (due to the extended leverage) when tightening the fastening screw. Indispensable when changing a timing chain or performing engine repairs.





Advantages:

- Ensures neat separation of the old timing chain.
- Ensures safe and correct assembly of the new chain joint.
- Ensures correct riveting of the new timing chain.

KL-0340-22 K

Timing Chain Master Tool Kit, Mercedes

Applicable to: Mercedes M102, M112, M113, M271, M272, OM628, OM642, OM651, OM668 and Opel/Vauxhall petrol and Diesel engines with Simplex or Duplex timing chain.

As installed in: Mercedes A-Class (W168), B-Class (W246), C-Class (W202, W203, W204), E-Class (W207, W210, W211, W212), G-Class (W460, W461, W463), R-Class (W251), S-Class (W220, W221), CLS (W218, W219), CLK (W208, W209), SL (W129, W230), SLK (W170, W171, W172), ML (W163, W164, W166), GL (X164), GLK (X204), Sprinter (W906), Vaneo (W414), Viano (W639), Vito (W639), 190 (W201), 200-300 (W123), 200-500 / E (W124).

This timing chain tool kit allows for the quick and neat separation, pulling in and riveting of Simplex timing chains as well as of Duplex timing chains with the centre plate pressed-on as found in Mercedes engines.

Scope of Delivery:

KL-0340-22 K Timing Chain Master Tool Kit, Mercedes

Part No.	Description	Qty
KL-0340-20 A	Breaker Tool for Timing Chain	1
KL-0340-203	Clipping Punch, Ø 4mm (2 pieces)	1
KL-0340-205	Clipping Punch, Ø 3mm (2 pieces)	1
KL-0340-211	Riveting Tool (base tool)	1
KL-0340-2201	Multi Thrust Piece 1	1
KL-0340-2202	Multi Thrust Piece 2	1
KL-0340-2203	Centring Pin, M5	2
KL-0340-221	Assembly Insert Kit A	1
KL-0340-222	Assembly Insert Kit B	1
KL-0340-223	Assembly Insert Kit C	1
KL-0340-224	Assembly Insert Kit D	1
KL-0340-225	Assembly Insert Kit E	1
KL-0340-226	Assembly Insert Kit F	1
KL-0340-2090	Plastic Storage Case	1

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KL-0340-23 K

Timing Chain Base Tool Kit, Mercedes

Applicable to: Mercedes M271, OM651 and Opel/Vauxhall petrol and Diesel engines with Simplex timing chain.

As installed in: Mercedes B-Class (W246), C-Class (W203, W204), E-Class (W211, W212, W207), M-Class (W166), S-Class (W221), CLS (C218), CLK (W209), SLK (W171, W172), GLK (X204), Sprinter (W906), Viano (W639) and VITO (W639).

This timing chain tool kit allows for the quick and neat separation, pulling in and riveting of the Simplex timing chains that are found in Mercedes engines.

Advantages:

- Ensures neat separation of the old timing chain.
- Ensures safe and correct assembly of the new chain joint.
- Ensures correct riveting of the new timing chain.

Scope of Delivery:

KL-0340-23 K Timing Chain Tool Kit, Mercedes

Part No.	Description	Qty
KL-0340-20 A	Breaker Tool for Timing Chain	1
KL-0340-203	Clipping Punch, Ø 4mm (2 pieces)	1
KL-0340-205	Clipping Punch, Ø 3mm (2 pieces)	1
KL-0340-211	Riveting Tool (base tool)	1
KL-0340-2201	Multi Thrust Piece 1	1
KL-0340-2202	Multi Thrust Piece 2	1
KL-0340-2203	Centring Pin, M5	2
KL-0340-222	Assembly Insert Kit B	1
KL-0340-226	Assembly Insert Kit F	1
KL-0340-2090	Plastic Storage Case	1

KL-0340-224

Assembly Insert Kit D

For example, included in tool set **KL-0340-22 K**.



KL-0340-9

Universal Mounting Device for Timing Chain

Suitable for use on Mercedes and Opel/Vauxhall petrol and Diesel engines both with Simplex and Duplex timing chains.

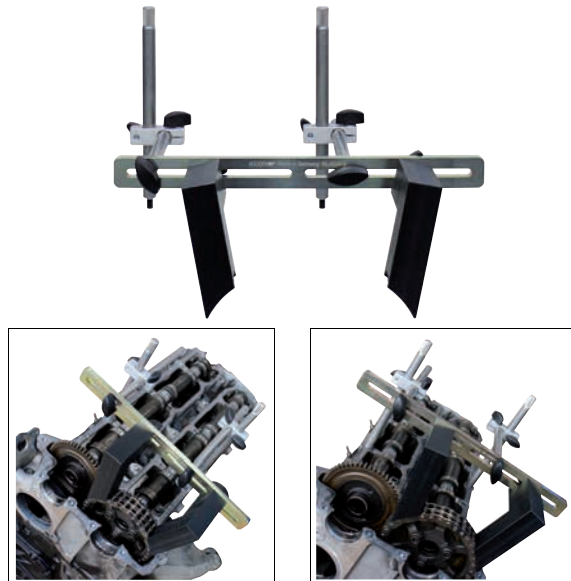
The special design of the mounting device prevents skipping a tooth during assembly, thus allowing the mechanic to carry out the professional installation of the new timing chain single-handedly - quickly and without any trouble.

Advantages:

- Substantial time savings, only one mechanic will be needed to do the job.
- Risk of dropping the chain or skipping a tooth is eliminated.
- Even more time savings possible, as on some vehicles removing the radiator, fan clutch etc. is not necessary.

Scope of Delivery: KL-0340-9 Universal Mounting Device for Timing Chain

Part No.	Description	Qty
KL-0340-91	Supporting Rod	2
KL-0340-92	Base Tool	1



KL-0380-752 K

Locking Tool Set, Mercedes

Applicable to Mercedes-Benz 1.6 and 1.8 petrol engines as found in: C-, CLC-, CLK-, E-, SLK-Class and Sprinter vehicles. (Engine code: M271)

For locking/positioning the camshafts and timing chain tensioning rail. Can also be used to install the plug on the timing case cover of the chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0380-752 K Locking Tool Set, Mercedes

Part No.	Description	Qty
KL-0380-7521	Locking Tool for Camshaft	1
KL-0380-7522	Wedge for Tensioning Rail	1
KL-0380-7523	Installation Mandrel for Chain Tensioner	1
KL-4990-1107	Plastic Storage Case	1



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KL-0380-751 K

Locking Tool Set, Mercedes

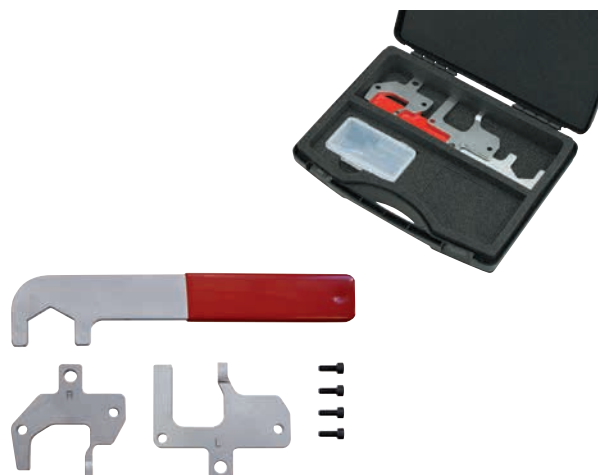
Applicable to Mercedes-Benz 2.4, 2.6, 2.8, 3.2, 3.7, 4.3, 5.0 and 5.4 litre petrol engines as found in:

C-, CL-, CLK-, CLS-, E-, G-, M-, R-, S-, SL-, SLK-Class, Viano, Vito. (Engine codes: M112, M113)

For locking and/or positioning camshafts. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0380-751 K Locking Tool Set, Mercedes

Part No.	Description	Qty
KL-0380-7511	Camshaft Spanner	1
KL-0380-7512	Locking Tool for Camshaft	1
KL-0380-7513	Locking Tool for Camshaft	1
KL-1280-2401-6	Cheese Head Screw, M6x14mm	4
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



KL-1682-43 KA Locking Tool Set, 1.3 JTD

Applicable to Fiat 1.3 16V Common Rail Diesel engines as fitted to:

- Alfa Romeo, Fiat, Lancia JTD Multi-Jet (engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000, 843A2.000)
- Ford TDCi Duratorq (engine code: FD4)
- Opel/Vauxhall CDTi (engine codes: A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Y13DT, Y13DTH, Z13DT, Z13DTE, Z13DTH, Z13DTI, Z13DTJ, Z13DTR)
- Suzuki DDiS (engine codes: D13A, Z13DT, Z13DTJ)
- Subaru (engine code: Z13DT)
- Citroën, Peugeot (engine code: F13DTE5 (FHZ))

This tool set is designed to counter-hold the crankshaft while loosening or tightening the crankshaft central screw. It also includes tools to lock/position engine shafts such as camshaft and crankshaft when replacing a timing chain or during an engine repair.

Scope of Delivery: KL-1682-43 KA Locking Tool Set, 1.3 JTD

Part No.	Description	Qty
KL-0482-450 A	Locking Tool for Camshaft (2 pieces)	1
KL-1682-434 A	Locking Pin, Ø 8mm	1
KL-0482-451 A	Locking Pin for Crankshaft, Ø 6mm	1
KL-1682-435	Counter-Holding Tool Set, Crank/Cam	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-1682-432 A	Holding Tool for Timing Chain Tensioner	1
KL-1682-4390 A	Plastic Storage Case	1

KL-0680-220 B Set of Locking Pins, Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDiS; Toyota 1.0 VVT, 1.4 Di, 1.4 HDi; Volvo 1.6 D Diesel engines.

(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTED, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

KL-1381-30 Tensioner Tool with Retaining Pin

Applicable to PSA (Citroën, Peugeot), Fiat and Ford 1.4 und 1.6 litre Diesel engines as found in: Citroën Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4 II, C4 Picasso/Grand Picasso, C5 III, DS3, Berlingo III, DS4, DS3, DS4, Xsara II, Xsara Picasso and Peugeot Partner III, 206, 207, 207 CC, 308, 308 CC, 508, 3008, 5008. (Engine codes: DV4, DV6)

Facilitates the tensioning and locking of V-ribbed belt tensioners.

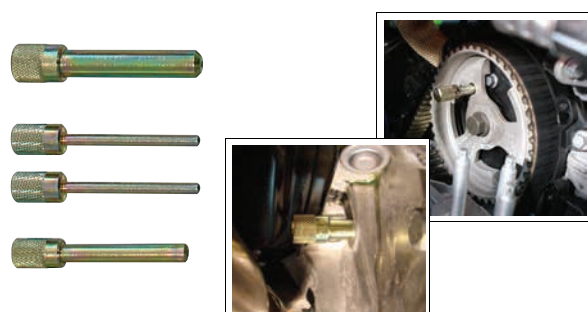
This tool allows for the removal/installation of the V-ribbed belt in situ on the vehicle even in very limited space conditions.

Technical Data:

Length of tension lever:	465mm
Ø of retaining pin:	4.2mm

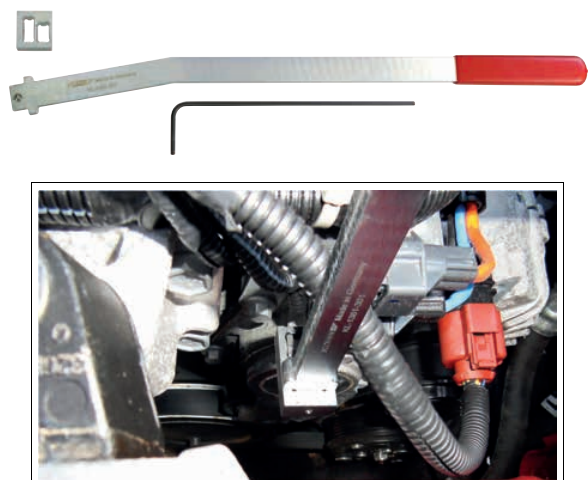
Scope of Delivery: KL-1381-30 Tensioner Tool with Retaining Pin

Part No.	Description	Qty
KL-1381-3021	Retaining Pin (angled), Ø 4.2mm	1
KL-1383-301	Tension Lever with Base Body	1



Scope of Delivery: KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1



KL-0680-262 A

Tensioner Tool, Ford

Applicable to Ford 1.4, 1.6, 2.0, 2.2 TDDi / TDCi Duratorq Diesel engines as installed in Ford Mondeo (2000-2007), Focus; Mazda2, Mazda3.

(Engine codes: F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

The tensioner tool KL-0680-262 A is required to pretension the tensioner when removing/installing the auxiliary belt.



KL-0280-701 K

Locking Tool Set, VW 1.2, 1.4, 1.6, 1.9 TDI

Applicable to VW-Audi, Seat, Škoda and Ford vehicles equipped with either a 1.2, 1.4, 1.6 or 1.9 Common Rail or Pumpe-Düse (unit injector) Diesel engine such as VW Lupo, Polo, Fox, Golf, Passat; Audi A1, A2, A3; Seat Arosa, Ibiza, Cordoba; Škoda Fabia II, Roomster, Praktik; Ford Galaxy etc.

(Engine codes: AMF, ANU, ANY, ASZ, ASZ1, ATL, AUY, AYZ, BAY, BHC, BMS, BNM, BNV, BWB, CAYA, CAYB, CAYC, CAYD, CAYE, CFWA)

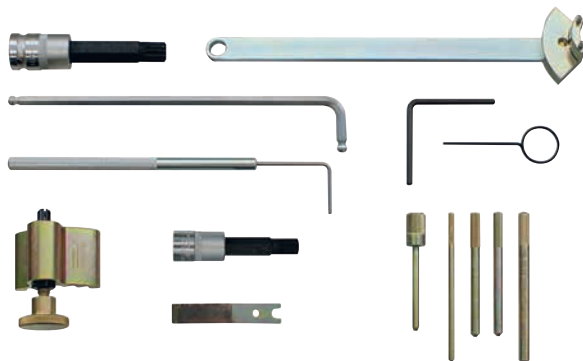
Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. The kit also includes tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0280-701 K Locking Tool Set, VW 1.2, 1.4, 1.6, 1.9 TDI

Part No.	Description	Qty
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-19	Locking Tool	1
KL-0280-2201 A	Locking Pin (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4031-3610	Screw Driver Bit Socket, XZN-M10	1
KL-4031-3114	Screw Driver Bit Socket, XZN-M14, 100mm	1
KL-0280-7029	Plastic Storage Case	1



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KL-0680-21 KA

Locking Tool Set, Ford TDCi

Applicable to Ford 2.0, 2.2, 2.4, 3.2 litre 16V TDDi/TDCi/Di Diesel engines as found in Mondeo, Transit (2001-2004) etc.

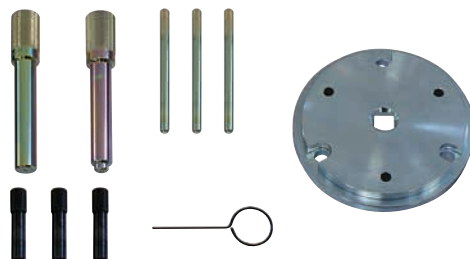
(Engine codes: 244DT, ABFA, BG, D2FA, D2FB, D3FA, D4FA, D5BA, D6BA, DOFA, F3FA, F4FA, F1FA, FMBA/B, FXFA, H9FA, H9FB, HEFA, HJBA, HJBB, HJBC, HJBE, JXFA, N7BA, N7BB, P8FA, PHFA, QJBA, QJBB, QJBC, QJBD, QVFA, QWFA, SAFA)

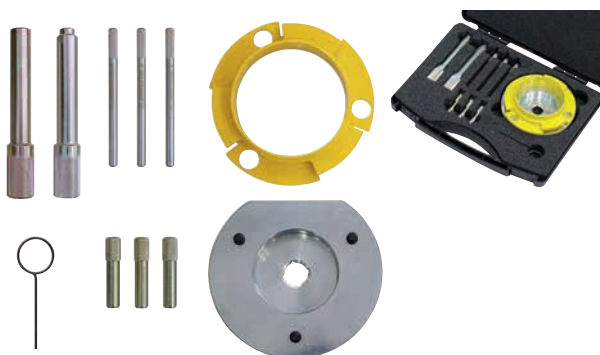
Indispensable tool set for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing chain or during an engine repair. The kit also includes a tool to remove/install the injection pump.

Scope of Delivery:

KL-0680-21 KA Locking Tool Set, Ford TDCi

Part No.	Description	Qty
KL-0680-2100 A	Injection Pump Removal/Installation Tool	1
KL-0680-210 A	Locking Pin Set, Ford 2.0/2.4 TDCi	1
KL-0680-2190 A	Plastic Storage Case	1





(Engine codes: 244DT, ABFA, BG, D2FA, D2FB, D3FA, D4FA, D5BA, D6BA, DOFA, F3FA, F4FA, F5FA, FMBA/B, FXFA, H9FA, H9FB, HEFA, HFFA, HJBA, HJBB, HJBC, HJBE, JXFA, N7BA, N7BB, P8FA, PHFA, QJBA, QJBB, QJBC, QJBD, QVFA, QWFA, SAFA)

KL-0680-21 KB

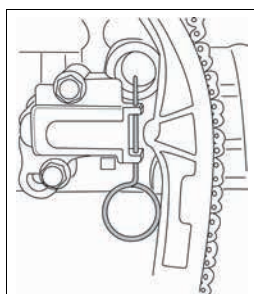
Locking Tool Set, Ford 2.0/2.4 TDCi

Applicable to Ford, Land Rover and Jaguar 2.0, 2.2, 2.4 and 3.2 TDDi/TDCi/Di Diesel engines. For example, fitted to: Ford Focus, Mondeo, Transit; Land Rover Defender and Jaguar X-Type.

For the locking/positioning of camshafts, injection pump shaft and crankshaft. An indispensable tool set when changing timing chains, performing engine repairs, as well as when removing/installing injection pumps.

Scope of Delivery: KL-0680-21 KB Locking Tool Set, Ford 2.0/2.4 TDCi

Part No.	Description	Qty
KL-0680-2101 A	Locking Pin, Ø 14mm	1
KL-0680-2102 A	Locking Pin, Ø 14 / 10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	3
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-0680-2100 B	Injection Pump Removal/Installation Tool	1
KL-0680-2190 A	Plastic Storage Case	1



KL-0680-210 A

Locking Pin Set, Ford 2.0/2.4 TDCi

Applicable to Ford 2.0/2.4 16V TDDi/TDCi engines as installed in Mondeo, Transit (2001-2004) etc.

(Engine codes: FMBA/B, D5BA, ABFA, D3FA, F3FA, D2FA, D4FA, F4FA)

This set is used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing timing chains or during engine repairs.

Scope of Delivery: KL-0680-210 A Locking Pin Set, Ford 2.0/2.4 TDCi

Part No.	Description	Qty
KL-0680-2101 A	Locking Pin, Ø 14mm	1
KL-0680-2102 A	Locking Pin, Ø 14/10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	3
KL-0180-3019	Retaining Pin, Ø 1.9mm	1

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KL-0680-211

Reaction Wrench, Ford

Suitable for use on Ford 2.2, 2.4 and 3.2 Diesel engines as found in Transit.

(Engine codes: FXFA, H9FA, H9FB, JXFA, P8FA, PHFA, QVFA, QWFA, SAFA)

This tool is designed to counter-hold the crankshaft pulley while loosening and tightening the crankshaft screws.



(Engine codes: 4HU (P22DTE), 4HV (P22DTE), CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

KL-0680-701 K

Locking Tool Set, Ford, Fiat, PSA 2.2

Applicable to Ford, Fiat, Citroën and Peugeot 2.2 litre Common Rail Diesel engines. For example, fitted to: Ford Transit, Fiat Ducato, Citroën Relay/Jumper III and Peugeot Boxer III.

For locking the crankshaft and camshaft, as well as for aligning the engine front cover when installing it. The set also includes the necessary tool to remove/install crankshaft seal rings. An indispensable tool set when replacing timing chains or performing engine repairs.

Scope of Delivery: KL-0680-701 K Locking Tool Set, Ford, Fiat, PSA 2.2

Part No.	Description	Qty
KL-0680-7011	Locking Tool, Crankshaft	1
KL-0680-7012	Cap for Crankshaft	1
KL-0680-7013	Turning Tool for Injection Pump	1
KL-0680-2102 A	Locking Pin, Ø 14/10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1007	Plastic Storage Case	1

KL-0680-103 A

Locking Pin Set for Crankshaft, Ford

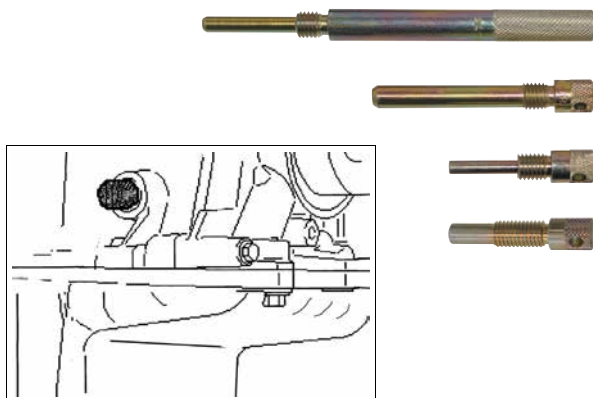
Applicable to Ford 1.25, 1.4, 1.6, 1.7, 1.8, 2.0 litre petrol engines, and 1.8 litre Diesel engines.

The pins are used for locking the crankshaft when replacing the timing belt or during engine repairs.

Scope of Delivery:

KL-0680-103 A Locking Pin Set for Crankshaft, Ford

Part No.	Description	Qty
KL-0680-10	Locking Pin for Crankshaft, Ø 6mm	1
KL-0680-16 A	Locking Pin for Crankshaft, Ø 7.9mm	1
KL-0680-17	Locking Pin for Crankshaft, Ø 5mm	1
KL-0680-18	Locking Pin for Crankshaft, Ø 7.95mm	1



KL-0680-25 A

Locking Tool Kit for Crankshaft, Ford

Applicable to Ford 1.25, 1.4, 2.0, 2.3 and 1.6 litre Ti-VCT TwinCam Duratec petrol engines, and 1.6, 1.8, 2.0, 2.2 litre TDi/TDdi/TDCi as well as 2.0 litre TDCi Diesel engines as installed in Ford Fiesta/Courier, Focus/C-Max, Tourneo Connect, Mondeo, S-Max, Galaxy, Transit Connect; Volvo.

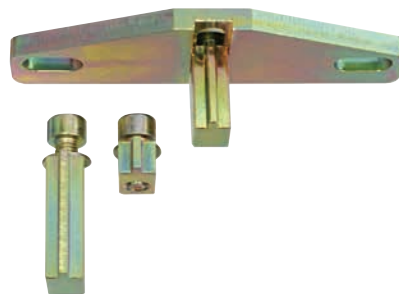
(Engine codes: AZBA, AZBC, AZWA, BHDA/B, BHPA, C9DA/B, C9DC, D4204T, E5FA, E5FC, E5SA, E5SB, F9DA/B, FFBA, FFDA, FFWA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, HCPA, HCPB, HXDA, HXJA, HXJB, IQDA/B, IQDB, IXDA, JQDA/B, JTBA/B, JTDA/B, KGBA, KHBA, KKDA, KKDB, KLBA, KNBA, LPBA, P7PA, P9PA, P9PB, PNBA, PNDA, Q4BA, QJBA, QXBA, QXBB, QXWA, QXWB, QYBA, QYWA, R2PA, R3PA, RHBA, RTJA, RTJB, RWPA, RWPC, SIDA, SNJA, SNJB, SPJA, SPJC, STJA, STJB, T1BA/B/C, TXBA, TXDA, TXDA/B, TXDB, TXWA, TYBA, TYDA, TYWA, TZJA, UFBA, UFDA, UFDB, UFWA, UKBA, UKDA, UKDB, UKWA, ZVSA)

This tool is designed to counter-hold the flywheel while loosening/tightening the crankshaft pulley fastening screws. It can also be used for locking/positioning the crankshaft when replacing the timing belt or during engine repairs.

Scope of Delivery:

KL-0680-25 A Locking Tool Kit for Crankshaft, Ford

Part No.	Description	Qty
KL-0680-2501 A	Adaptor, 2.0 TDCi	1
KL-0680-2502 A	Adaptor, 1.6 Ti-VCT	1
KL-0680-1058 A	Holding Tool for Flywheel with Adaptor, 1.8 Diesel	1



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KL-0680-20 A

Vibration Damper Installation/Removal Tool, Ford/Mazda

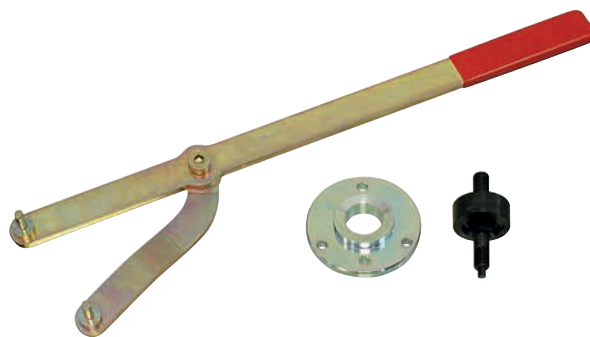
Applicable to Ford Zetec engines as found in Ford Fiesta 1.25, 1.4, 1.6 16V, Puma 1.4, 1.6, 1.7 16V, Focus 2.2, Galaxy 2.0, 2.3, Transit 2.3 and Mazda 121 1.25 16V. (Engine codes: E5FA, E5FC, E5SA, E5SB, QJBA, ZVSA etc.)

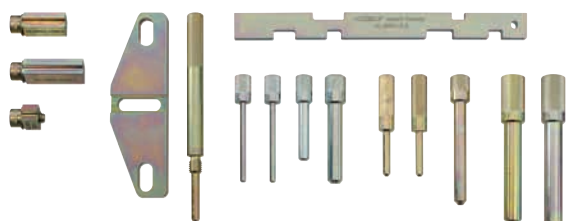
Designed for the removal and installation of vibration dampers. Required for engine repairs or when replacing a timing belt.

Scope of Delivery:

KL-0680-20 A Vibration Damper Installation/Removal Tool, Ford/Mazda

Part No.	Description	Qty
KL-0680-201 A	Reaction Wrench with Pin, Ø 7.5mm	1
KL-0680-202 A	Extraction Plate for Crankshaft Vibration Damper	1
KL-0680-203 A	Installation Tool for Crankshaft Pulley	1





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(Engine codes: 224DT, 4AB, 4BA, 4BB, 4BC, 4CA, 4CB, 4CC, 4DA, 4EA, 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4GF, 4HA, 4HB, 4HC, 4HD, 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, ABFA, ALDA, ABOA, AOBC, AODA, AODB, AODE, AOWA, AOWB, AZBA, AZBC, ATWA, BG, BHDA/B, BHPA, BP, C9DA/B, C9DC, CDBB, CGBA/B, CJBA/B, CSDA, CSDB, D2FA, D2FB, D3FA, D4FA, D4162T, D4164T, D4204T, D5BA, D6BA, DOFA, DV4C, DV4TD, DV4TED, DV4TED4, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6C, DV6DTEd, DV6DU, DV6ETEd, DV6TED4, DV6TED4BU, DV6TUD4, DV6UTED4, E5FA, E5FC, E5SA, E5SB, EDBA/C, EDBB, EDBD, EDDB, EDDC, EDDD, EDDF, EYDB, EYDC, EYDD/E, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F3FA, F4FA, F6JA, F6JB, F6JC, F6JD, F8JA, F8JB, F9DA/B, FE, FFBA, FFDA, FFWA, FIFA, FMBA/B, FP, FS, FUJA, FUJB, FXFA, FXJA/B, FYJA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, G8DA, G8DB, G8DD, GPDA, GZ, GZFA, GZFB, GZFC, H9FA, H9FB, HCPA, HCPB, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, HJBA, HJBB, HJBC, HJBE, HMDA, HXDA, HXJA, HXJB, IQDA/B, IQDB, IXDA, JQDA/B, JTBA/B, JTDA/B, JXFA, KGBA, KHBA, KKDA, KKDB, KL, KLBA, KNBA, L1L, L1N/Q, L3, L5, L8, LF, LPBA, MZ-CD 1.6, MZR 1.8, N4JB, N7BA, N7BB, NGB, NGC, NGD, P7PA, P8FA, P9PA, P9PB, PHFA, PNBA, PNDA, Q4BA, Q7DA, QJBA, QJBB, QJBC, QJBD, QQDA, QQDB, QQDC, QVFA, QWFA, QXBA, QXBB, QXWA, QXWB, QYBA, QYWA, R2PA, R3PA, RFD, RFK, RFS, RHBA, RKF, RKH, RKJ, RKK, RTE, RTF, RTH, RTJ, RTJA, RTJB, RTK, RVA, RWPA, RWPC, SAFA, SEBA, SEWA, SIDA, SNJA, SNJB, SPJA, SPJC, STJA, STJB, SYDA, T1BA/B/C, TBBA, TBBB, TBWA, TBWB, TNBA, TXBA, TXDA, TXDA/B, TXDB, TXWA, TYBA, TYDA, TYWA, TZJA, UFBA, UFDA, UFD B, UFWA, UKBA, UKDA, UKDB, UKWA, Y6, YF, ZVSA)

KL-0680-28 K

Universally applicable to Ford, PSA (Citroën, Peugeot), Land Rover, Jaguar, Mazda, Volvo 1.4, 1.6 HDi (PSA) and 1.4, 1.6 TDCi (Ford) and 1.6 TDi, 1.8 TDi/TDdi/TDCi, 2.0, 2.4 16V TDdi/TDCi Diesel engines as found in Citroën Berlingo, C1, C2, C3, C4, C5, Dispatch, DS3, DS4, Jumpy, Nemo, Xsara; Fiat Scudo; Ford C-Max, Cougar, Courier, Escort, Fiesta, Focus, Fusion, Galaxy, Kuga, Maverick, Mondeo, Orion, S-Max, Tourneo, Transit; Jaguar X-Type, Land Rover Defender; LDV Convoy; Mazda 2, 3, 323, 5, 6, E-Series, MPV, MX-5, Premacy, Tribute, Xedos 9; Peugeot 107, 206, 207, 307, 308, 407, 508, 1007, 3008, 5008, Bipper, Expert, Partner; Volvo C30, S40, S60, S80, V50, V70.

This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft, and injection pump shaft as well as of the timing belt tensioner. Essential tools when replacing timing belts or performing engine repairs.

Scope of Delivery:

KL-0680-28 K Locking Tool Set, Ford

Part No.	Description	Use/Application
KL-0180-30 B	Retaining Pin Set, 0.8-2.6mm	For locking the automatic timing belt tensioner when replacing a timing belt. Consists of: Key fob with ring and 6 retaining pins with Ø 0.8mm, Ø 1.2mm, Ø 1.4mm, Ø 1.5mm, Ø 1.7mm, Ø 1.9mm, Ø 2.4mm, Ø 2.6mm.
KL-0680-10	Locking Pin for Cranksahft, Ø 6mm	1.8 D / TD / Tddi / TDCi Diesel engines. Engine code: BHDA/B, BHPA, C9DA/B/C, F9DA/B, HCPA, KKDA, RFA, RFK, RFL, RFN, RTC, RTJ, RTK.
KL-0680-1058 A	Locking Tool for Flywheel, with Adaptor	1.8 D / TD / TDCi Diesel engines. Engine code: RTN, RTQ, RTP, BHDB, BHPA, C9DA, C9DB, C9DC, F9DA, F9DB, FFBA, FFDA, FFWA, G6DA, G6DB, G6DC, HPCA, HPCB, P7PA, P9PA, QYBA, QYWA, R2PA, R3PA, RWPA, KKDA.
KL-0680-11 A	Locking Pin for Camshaft, Ø 8.3mm	2.5 D / TD / TCI Diesel engines. Engine code: 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4HB, 4HC.
KL-0680-12 A	Locking Pin for Injection Pump, Ø 9.5mm	1.8 D / TD and 2.5 DI / Turbo / TCI Diesel engines. Engine code: 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4HB, 4HC, RFD, RFK, RFN, RKD, RTC, RTH, RTJ, RTK, RVA.
KL-0680-13 A	Locking Pin for Flywheel, Ø 12.9mm	2.5 DI / Turbo / TCI Diesel engines. Engine code: 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4HB, 4HC.
KL-0680-14 A	Locking Pin for Camshaft and Injection Pump, Ø 6mm (2 units)	1.8 D / TD Diesel engines. Engine code: C9DC, RFA, RFD, RFK, RFL, RFN, RTC, RTH, RTJ, RTK.
KL-0680-15 A	Setting Gauge for Camshafts	1.25, 1.4, 1.6, 1.7, 1.8, 2.0 TwinCam petrol engines, and 1.8 D / TD Diesel engines. Engine code: C9DC, MHA, RFA, RFD, RFK, RFL, RFN, RTC, RTH, RTJ, RTK, Zetec DHA/DHB.
KL-0680-16 A	Locking Pin for Crankshaft, Ø 7.9mm	1.6, 1.8, 2.0 16V petrol engines. Engine code: L1F, L1J, NGA, RKA, RKB, Zetec.
KL-0680-17	Locking Pin for Crankshaft, Ø 5mm	1.25, 1.4, 1.6, 1.7 16V petrol engines. Engine code: Zetec DHA, DHB, DHC, DHF, DHE, DHF, DHG, FHA, FHE, L1T, L1V, MHA.
KL-0680-18	Locking Pin for Crankshaft, Ø 7.95mm	Ford petrol engines (1.25 Zetec-SE Sigma, 1.4 Duratec-16V Sigma, 1.6 Duratec-16V Sigma, 2.0 Duratec-RS Zetec, 1.4 Zetec-SE Sigma, 1.6 Zetec-SE Sigma, 2.0 Duratec-ST Zetec) Engine code: F8JA, F8JB, FUJA, FXDA/C, FXDB/D, FXJA, FXJB, FYDA/C, FYDB/D, FYDH, FYJA, FYJB, HWDA, HXDA.
KL-0680-2101 A	Locking Pin for Flywheel, Ø 14mm	Ford 2.0/2.4 16V TDCi engines.
KL-0680-2102 A	Locking Pin for Flywheel, Ø 13.5/9.5mm	Ford 2.0/2.4 16V TDDi engines.
KL-0680-2103 A	Locking Pin for Camshafts and Injection Pump, Ø 6mm	Ford 2.0/2.4 16V TDDi/TDCi engines. Engine code: FMBA/B, D5BA, ABFA, D3FA, F3FA, D2FA, D4FA, F4FA.
KL-0680-2201 A	Locking Pin for Flywheel, Ø 11mm	1.4, 1.6 HDi (PSA) and 1.4, 1.6 TDCi (Ford) engines. Engine code: 8HV, 8HW, 8HX, 9HX, 9HZ DV4TD, DV4TED4, DV6ATED4, DV6TED4 and F6JA, F6JB, F6JC, G8DA, G8DB, HHDA.
KL-0680-2202 A	Locking Pin for Crankshaft and Injection Pump, Ø 4.5mm	Application as KL-0680-2201 A.
KL-0680-2203 A	Locking Pin for Camshaft, Ø 7.5mm	Application as KL-0680-2201 A, + 2.0 and 2.2.
KL-0680-2501 A	Adaptor 2.0 TDCi for KL-0680-1058 A	Engine code: AZWA, G6DA, G6DB, G6DC, QXWA.
KL-0680-2502 A	Adaptor 1.6 Ti-VCT for KL-0680-1058 A	Engine code: HXDA.
KL-0680-2890	Plastic Storage Case	

KL-0680-100 B

Locking Tool Set, Ford

Applicable to Ford 1.6, 1.8, 2.0 and 2.5 litre petrol and Diesel engines as found in Ford Cougar, Escort, Fiesta, Focus, Maverick, Mondeo, Orion, Tourneo, Transit; Mazda Tribute; LDV Convoy.

(Engine codes: 4AB, 4BA, 4BB, 4BC, 4CA, 4CB, 4CC, 4EA, 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4GF, 4HA, 4HB, 4HC, 4HD, ALDA, EAB, EDBA/C, EDBB, EDBD, EDDB, EDDC, EDDD, EDDF, EYDL, EYPA, EYPC, NGB, NGC, NGD, RFD, RFK, RFS, RKF, RKH, RKJ, RKK, RTE, RTF, RTH, RTJ, RTK, RVA, YF)

The correct position of the engine shafts such as camshaft and injection pump shaft relative to the crankshaft (accurate timing adjustment) is absolutely essential when replacing a timing belt or during an engine repair.

Only then will the optimal engine power be achieved and engine failure be prevented.

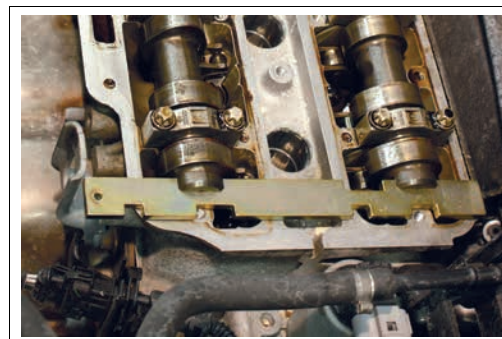
Technical Data:

Part No.	Length		Handle Ø	Thread	Weight
KL-0680-100 B	-	-	-	-	0.4kg
KL-0680-10	150mm	6.0mm	12mm	M10	-
KL-0680-11 A	80mm	8.3mm	15mm	-	-
KL-0680-12 A	95mm	9.5mm	15mm	-	-
KL-0680-13 A	100mm	12.9mm	15mm	-	-
KL-0680-14 A	75mm	6.0mm	12mm	-	-
KL-0680-16 A	80mm	7.9mm	-	M10	-

Scope of Delivery:

KL-0680-100 B Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-10	Locking Pin for Crankshaft	1
KL-0680-11 A	Locking Pin, Ø 8.3mm	1
KL-0680-12 A	Locking Pin, Ø 9.5mm	1
KL-0680-13 A	Locking Pin, Ø 12.9mm	1
KL-0680-14 A	Locking Pin, Ø 6mm	2
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-16 A	Locking Pin for Crankshaft	1



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KL-0184-061

Reaction Wrench, Ford

Applicable to Ford, Mazda, Volvo 1.3, 1.5, 1.6, 1.8, 2.0 and 2.3 litre engines; as installed in Ford Focus/C-Max, Mondeo, S-Max, Galaxy; Mazda 2, 3, 5, 6, CX-7, MX-5; Volvo C30, S40, V50, V70, S80.

(Engine codes: B4184S11, B4184S8, B4204S3, B4204S4, L3 Turbo, LF, LF (MZR DISI), MZ-CD 1.6 (Y6), MZR 1.3 (ZJ), MZR 1.5 (ZY), MZR 1.8 (L8), MZR 2.0 (LF), ZJ, ZY)

This tool is designed to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw. It is required when replacing timing belts and for engine repairs.

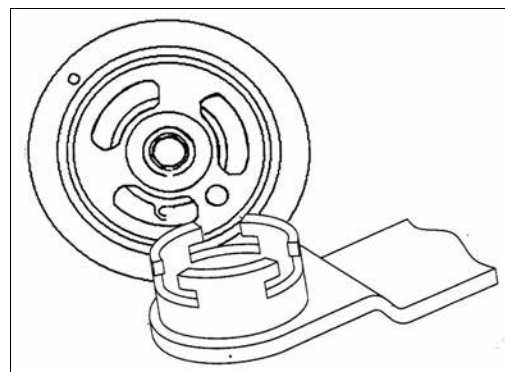
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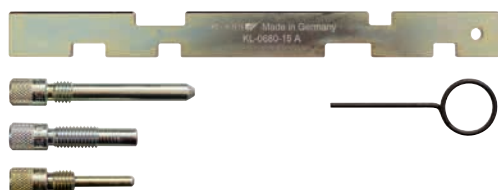
Overall length (of assembled tool):	754mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm

Scope of Delivery:

KL-0184-061 Reaction Wrench, Ford

Part No.	Description	Qty
KL-0184-0610	Reaction Wrench (Base Tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1





KL-0680-27 A Locking Tool Set, Ford

Applicable to Ford and Mazda 1.25, 1.4, 1.6, 1.7, 1.8, 2.0, 2.3 and 2.5 litre TwinCam Duratec petrol engines (timing belt/timing chain), as installed in: Ford C-Max, Courier, Cougar, Fiesta, Fusion, Focus, Galaxy, Maverick, Mondeo, Puma, S-Max, Tourneo Connect and Transit Connect; Mazda 121, 2, 3, 323, 5, 6, MPV, Tribute and Xedos 9.

(Engine codes: ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, BP, CDBB, CGBA/B, CHBA/B, CJBA/B, CSDA, CSDB, E5FA, E5FC, E5SA, E5SB, EDDB, EDDC, EDDD, EDDF, EYDB, EYDC, EYDD/E, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F8JA, F8JB, FE, FP, FS, FUJA, FUJB, FXJA, FXJA/B, FYJA, FYJB, FYJC, GZ, GZFA, GZFB, GZFC, HMDA, KL, L3, L5, L8, LF, MZR 1.8 (L8), N4JB, Q7DA, QQDA, QQDB, QQDC, SEBA, SEWA, SYDA, TBBA, TBBB, TBWA, TBWB, TNBA, YF, ZVSA)

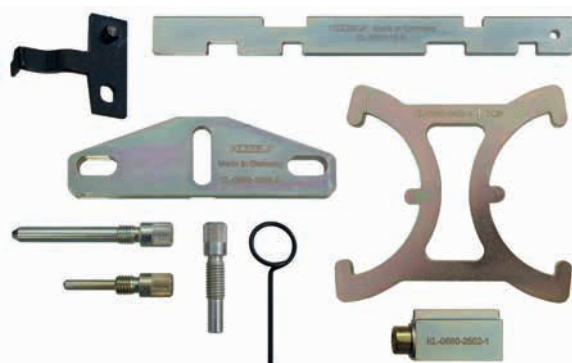
This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft and the timing belt tensioner. It is required when replacing timing belts/timing chains and for engine repairs.

Scope of Delivery:

KL-0680-27 A Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-16 A	Locking Pin for Crankshaft	1
KL-0680-18	Locking Pin for Crankshaft	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1

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KL-0680-24 KB Locking Tool Set, Ford

Applicable to Ford 1.25, 1.4, 1.6, 1.8, 2.0, 2.3 and 2.5 litre petrol engines as found in Ford C-Max, Fiesta, Fusion, Focus, Galaxy, Ka, Maverick, Mondeo, S-Max, Tourneo Connect, Transit Connect; Mazda 2, 3, 323, 5, 6, E-Series, MPV, MX-5, Premacy, Tribute, Xedos 9; Volvo C30, S40, S60, S80, V40, V50, V60, V70.

(Engine codes: ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, ASDA, ASDB, B4164S2, B4164S3, B4164T, B4164T2, B4164T3, BP, CDBB, CDB/C, CDRA/B, CGBA/B, CJBA/B, CSDA, CSDB, E5FA, E5FC, E5SA, E5SB, EDDB, EDDC, EDDD, EDDF, EYDB, EYDC, EYDD/E, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F8JA, F8JB, FE, FP, FS, FUJA, FUJB, FXDA/C, FXDB/D, FXJA, FXJA/B, FXJB, FXJC, FYDA/C, FYDB/D, FYDH, FYJA, FYJB, FYJC, GZ, GZFA, GZFB, GZFC, HMDA, HWDA, HWDB, HXDA, HXJA, HXJB, IQDA/B, IQDB, IQDA/B, JTBA/B, JTDA/B, KGBA, KL, L3, L5, L8, LF, M7JA, M7JB, MZR 1.8, N4JB, PNBA, PNDA, Q7DA, QQDA, QQDB, QQDC, RHBA, RTJA, RTJB, SEBA, SEWA, SHDA, SHDB, SHDC, SIDA, SNJA, SNJB, SPJA, SPJC, STJA, STJB, SYDA, TBBA, TBBB, TBWA, TBWB, TNBA, UTJA, YF, ZVSA)

Designed for the locking/positioning of camshaft, crankshaft and timing belt tensioner. The kit also includes a tool to adjust the VCT unit. An indispensable tool set when replacing timing belts or performing engine repairs.

Scope of Delivery:

KL-0680-24 KB Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-18	Locking Pin for Crankshaft	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0680-2403 A	Setting Gauge for Camshaft	1
KL-0680-2404 A	Locking Tool for Flywheel	1
KL-0680-15 A	Setting Gauge for Camshaft	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-16 A	Locking Pin for Crankshaft	1
KL-0680-2405 A	Locking Tool for Vibration Damper	1
KL-0680-2490 A	Plastic Storage Case	1

KL-0680-23 KB

Locking Tool Set, Ford

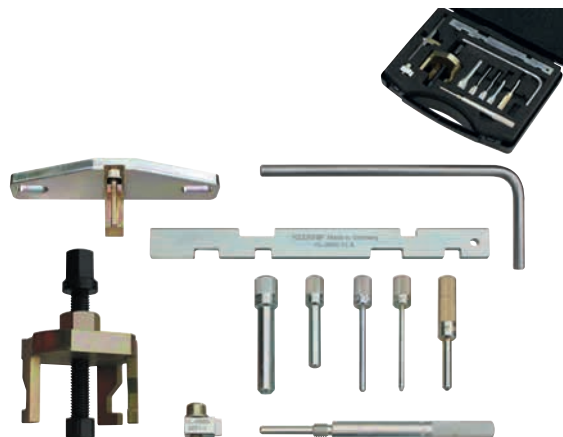
Applicable to Ford 1.4, 1.6, 1.8, 2.0 and 2.2 litre petrol engines as found in Ford C-Max, Fiesta, Focus, Fusion, Galaxy, Kuga, Mondeo, S-Max, Tourneo Connect; Mazda 2; Volvo C30, C70, S40, S80, V50, V70.

Designed for the locking/positioning of camshafts, crankshaft and injection pump. The kit also includes a tool to remove the camshaft sprocket. An indispensable tool set when replacing timing belts/performing engine repairs.

Scope of Delivery:

KL-0680-23 KB Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-2203 A	Locking Pin for Camshaft, Ø 8mm	1
KL-0680-2202 A	Locking Pin for Injection Pump and Crankshaft, Ø 4.5mm	2
KL-0680-2201 A	Locking Pin for Flywheel, Ø 11mm	1
KL-0680-2302 A	Locking Pin (angled), Ø 8mm	1
KL-0680-1058 A	Locking Tool for Flywheel, with Adaptor	1
KL-0680-2501 A	Adaptor, 2.0 TDCi	1
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-1053 A	Camshaft Sprocket Puller	1
KL-0680-10	Locking Pin for Crankshaft	1
KL-0680-14 A	Locking Pin, Ø 6mm	1
KL-0680-1090	Plastic Storage Case	1



(Engine codes: AZBA, AZBC, AZWA, BHDA/B, BHPA, C9DA/B, C9DC, D4162T, D4164T, D4204T, D4204T2, F6JA, F6JB, F6JC, F6JD, F9DA/8, FFBA, FFDA, FFWA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, G8DA, G8DB, G8DD, GPDA, HCPA, HCPB, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, IXDA, KHBA, KKDA, KKDB, KLBA, KNBA, LPBA, P7PA, P9PA, P9PB, Q4BA, QXBA, QXBB, QXWA, QXWB, QYBA, QYWA, R2PA, R3PA, RWPA, RWPC, T1BA/B/C, TXBA, TXDA, TXDA/B, TXDB, TXWA, TYBA, TYWA, TYDA, TZJA, UFBA, UFDA, UFDB, UFWA, UKBA, UKDA, UKDB, UKWA)

KL-0680-101

Locking Tool Set, Ford

Applicable to Ford 1.6, 1.8 and 2.0 litre ZETEC SE petrol engines as found in Ford Cougar, Focus, Maverick, Mondeo, Tourneo, Transit; Mazda Tribute.

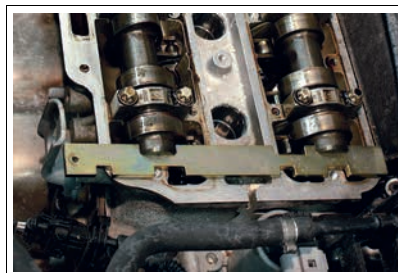
(Engine codes: ALDA, EDBA, EDBB, EDBC, EDBD, EDDB, EDDC, EDDD, EDDF, EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, L1L, L1N/Q, NGB, NGC, NGD, RKF, RKH, RKJ, RKK, YF)

This tool set is designed to be used for extracting the camshaft timing belt sprocket as well as for locking/positioning engine shafts such as camshaft and crankshaft. It is required when changing a timing belt and for engine repairs.

Scope of Delivery:

KL-0680-101 Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-16 A	Locking Pin for Crankshaft	1



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KL-0680-751 K

Locking Tool Set, Ford

Applicable to Ford 1.8, 2.0 and 2.3 petrol engines as found in Ford Mondeo; Mazda 3, 5, 6, CX-7. (Engine codes: CFBA, LF, L3 Turbo, MZR 2.0, MZR DISI)

Designed for the locking/positioning of camshafts and crankshaft. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0680-751 K Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-7511	Locking Tool for Camshaft	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-15 A	Setting Gauge for Camshaft	1
KL-0680-16 A	Locking Pin for Crankshaft	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1





KL-0680-752 K Locking Tool Set, Ford 2.0

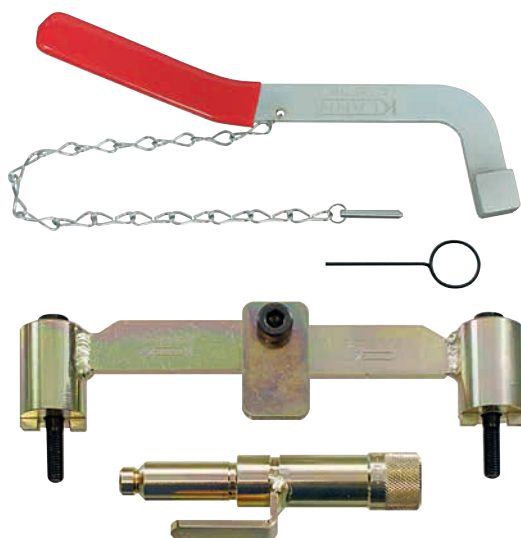
Applicable to Ford 2.0 litre engines as found in Ford Galaxy, Mondeo, S-Max. (Engine codes: TNBA, TNWA, TNWB, TPBA, TPWA)

Designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner. The kit also includes a tool to align the crankshaft position sensor. An indispensable tool set when changing a timing belt, performing an engine repair or when installing the crankshaft position sensor and front sensor disc.

Scope of Delivery:

KL-0680-752 K Locking Tool Set, Ford 2.0

Part No.	Description	Qty
KL-0680-7521	Locking Tool for Camshaft	1
KL-0680-7522	Locking Tool for Camshaft	1
KL-0680-7523	Crank Position Sensor Alignment Tool	1
KL-0680-18	Locking Pin for Crankshaft	1
KL-0180-3019	Locking Pin, Ø 1.9mm	1
KL-4990-2002	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



KL-1280-22 A Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

Applicable to Renault and Volvo TwinCam petrol engines.

Renault 2.0 16V (N7Q) and 2.5 20V (N7U) as found in Laguna and Safrane.

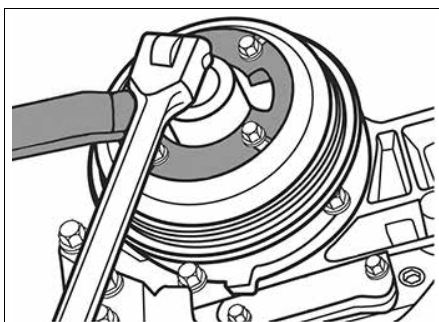
Volvo 1.8 16V (B4184 S2/S9), 1.9 T4 (B4194 T2) and 2.0 16V/T (B4204 S2/T3) as found in S40 I and V40.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft when changing a timing belt or during engine repairs.

Scope of Delivery:

KL-1280-22 A Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

Part No.	Description	Qty
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-0180-3019	Retaining Pin for Hydraulic Tensioner Pulley, Ø 1.9mm	1
KL-1280-224 A	Tensioner Spanner with Retaining Pin for Auxiliary Belt	1



KL-0780-30 Counter-Holding Tool, Crankshaft

Applicable to Ford 2.5 and Volvo 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5, 2.8 and 2.9 litre 4- and 5-cylinder petrol engines, and 2.0 and 2.4 litre 5-cylinder Diesel engines. Fitted to: Ford Focus, Galaxy, Kuga, Mondeo, S-MAX and Volvo C30, C70, S40, S60, S70, S80, V40, V50, V70, XC70, XC90.

(Engine codes: Ford HUBA, HUWA, HYDA, HYDB, JZDA, LCBD; Volvo B4164S, B4184S, B4194T, B4204S, B4204T, B5204T3, B5204T4, B5204T5, B5234FS, B5234T3, B5234T7, B5234T8, B5234T9, B5244S, B5244S2, B5244S4, B5244S5, B5244S7, B5244SG, B5244SG2, B5244T, B5244T2, B5244T3, B5244T4, B5244T5, B5244T7, B5254FS, B5254T, B5254T10, B5254T11, B5254T2, B5254T3, B5254T4, B5254T5, B5254T6, B5254T7, B5254T8, B6284T/T2, B6294S, B6294S2, B6294T, B6304S3, D5204T, D5204T2, D5204T3, D5204T5, D5244T, D5244T10, D5244T11, D5244T13, D5244T14, D5244T15, D5244T16, D5244T17, D5244T18, D5244T19, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7, D5244T8, D5244T9)

This tool is designed to be used for counter-holding the vibration damper while loosening and tightening the crankshaft central screw.

KL-0280-755 K

Locking Tool Set, VW 2.8, 3.2, 4.0 and 6.0

Applicable to VW-Audi, Seat and Ford Galaxy 2.8, 3.2 VR6, 4.0 W8 and 6.0 W12 petrol engines as found in: VW Bora, Sharan, Eos, Golf, Transporter T4, Transporter T5, Passat, Phaeton, Touareg; Audi A3, TT, A8; Seat Alhambra, Leon, and Ford Galaxy etc.

(Engine codes: AES, AUE, AYL, AYT, AZZ, BAA, BAN, BAP, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHT, BJN, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BRN, BRP, BSB, BTE, BTT, BUB, CBRA)

Professional tool set for the locking/positioning of camshafts, crankshaft and timing chain tensioner. Indispensable when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0280-755 K Locking Tool Set, VW 2.8, 3.2, 4.0 and 6.0

Part No.	Description	Qty
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-951 A	Setting Gauge for Camshafts, VW-Audi	1
KL-0280-7551	Camshaft Alignment Tool (2-piece set)	1
KL-0280-7552	Chain Tensioner-Holding Tool	1
KL-4990-1107	Plastic Storage Case	1



KL-0280-951 A

Setting Gauge for Camshafts, VW-Audi

Suitable for use on VW-Audi 2.3, 2.8, 2.9, 3.2 and 6.0 litre petrol engines as found in VW Golf, Bora, Vento, Corrado, Passat, Sharan, Transporter; Seat Leon, Toledo, Alhambra; Ford Galaxy.

(Engine codes: AES, AGZ, AQN, AUE, AYL, AZX, BDE, BHE, BHT, BSB, BTE etc.)

This tool is designed for the locking/positioning of camshafts. It is required when changing timing chains and for engine repairs.



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KL-0482-45 KA

Locking Tool Set, Opel/Vauxhall 1.3 CDTi

Applicable to Opel/Vauxhall (Suzuki/Subaru) 1.3 litre CDTi/DDiS Diesel engines (Engine codes: A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Z13DT, Z13DTH, Z13DTI, Z13DTJ, Z13DTR) as found in Corsa, Swift etc.

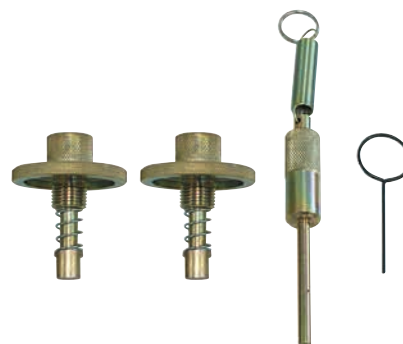
Applicable to Fiat (Alfa/Ford/Lancia/Citroën/Peugeot) 1.3 litre engines. (Engine codes: 169A1.000; 169A1.000 (FD4)/BAAA/B; 169A5.000; 188A8.000; 188A9.000; 199A2.000; 199A3.000; 199A9.000; 199B1.000; 199B1.0000; 199B2.000; 199B4.000; 223A9.000; 263A2.000; 263A2.000; F13DTE5 (FHZ))

This tool set is designed for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as of the timing chain tensioner while replacing a timing chain or during an engine repair.

Scope of Delivery:

KL-0482-45 K Locking Tool Set, Opel/Vauxhall 1.3 CDTi

Part No.	Description	Qty
KL-0482-450 A	Locking Tool for Camshaft (2 pcs.)	1
KL-0482-451 A	Locking Pin for Crankshaft, Ø 6mm	1
KL-0482-434	Retaining Pin, Ø 2.4mm	1
KL-0482-4590 A	Plastic Storage Case	1





KL-0482-46 KB

Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall, Alfa Romeo, Fiat, Lancia and Suzuki 1.6, 1.9, 2.0 and 2.4 litre Diesel engines as found in: Opel/Vauxhall Astra, Astra-H, Insignia, Signum, Vectra-C, Zafira-B; Saab 9-3, 9-5; Alfa 147, 156, 159, 166, Brera, Giulietta, GT, Mito, Spider; Fiat Bravo, Croma, Doblo, Idea, Linea, Marea, Multipla, Punto, Ritmo, Sedici, Stilo, Strada; Lancia Delta, Lybra, Musa, Thesis; Suzuki SX4.

(Engine codes: 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A3.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A5.000, 192A8.000, 192A9.000, 192B1.000, 192B4.000, 192B5.000, 198A2.000, 198A3.000, 198A5.000, 198A6.000, 199A5.000, 223A6.000, 223A7.000, 223B1.000, 350A2.000, 350A3.000, 362.02, 371.01, 839A6.000, 841C.000, 841G.000, 841H.000, 841M.000, 841P.000, 844A1.000, 844A2.000, 844A3.000, 937A2.000, 937A3.000, 937A4.000, 937A5.000, 937A6.000, 939A1.000, 939A2.000, 939A3.000, 939A7.000, 939A8.000, 939A9.000, 939B3.000, 939B4.000, 940A3.000, 940A4.000, 940A5.000, 955A3.000, 955A4.000, A20DTC, A20DTH, A20DTJ, A20DTR, D19AA, D20AA, LBS, LBX, LBY, LCD, RHT, Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z19DTR)

Designed for the locking/positioning of camshafts, crankshaft, and flywheel. The kit also includes a tool to lock the V-ribbed belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0482-46 KB Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-1682-202 A	Locking Tool for Crankshaft	1
KL-0482-461 A	Locking Pin Set for Camshaft	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1682-131 A	Flywheel Holding Tool	1
KL-1682-4290 A	Plastic Storage Case	1

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KL-0482-46 KA

Locking Tool Set, Fiat/Opel/Vauxhall

Application: Opel/Vauxhall and Saab 1.9 and 2.0 CDTi Diesel engines; as fitted to Opel/Vauxhall Vectra, Signum etc.

(Engine codes: LBS/A20DTH, LBX/A20DTJ, LBY/A20DTR, LCD/A20DTC, Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z19DTR)

Also applicable to Alfa Romeo* and Fiat* 1.6 8/16V Multijet; 1.9 8/16V and 2.4 10/20V JTD Common Rail Diesel engines; as fitted to Alfa Romeo: 145, 146, 147, 156, 159, 166, GT; Fiat: Punto, Grande Punto, Brava/Bravo, Marea/Weekend, Stilo, Doblo/Cargo, Multipla; Lancia; Suzuki.

(Engine codes: 198A2.000, 198A3.000, 198A6.000, 350A2.000, 350A3.000, 844A3.000, 940A3.000, 955A3.000, 955A4.000, D19AA, RHT, 323.02, 371.01, 182B4.000, 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A3.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A8.000, 192A9.000, 192B4.000, 192B5.000, 199A5.000, 223A6.000, 223A7.000, 223B1.000, 844A1.000, 937A2.000, 937A3.000, 939A1.000, 939A7.000; 192A5.000, 192B1.000, 937A4.000, 937A5.000, 937A6.000, 939A2.000, 939A8.000; D20AA, 198A5.000, 844A2.000, 939B3.000, 939B4.000, 940A4.000, 940A5.000; 325.01, 342.02, 362.02, 185A6.000, 839A6.000, 841C.000; 841G.000, 841H.000, 841M.000, 841P.000, 939A3.000, 939A9.000.)

Designed to lock and/or position engine shafts such as camshaft and crankshaft*, as well as to hold the timing belt tensioner in position when replacing a timing belt or during an engine repair.

*Note: The KL-0482-46 KA locking tool set does not include the KL-1682-131 A flywheel holding tool.

Scope of Delivery:

KL-0482-46 KA Locking Tool Set, Fiat/Opel/Vauxhall

Part No.	Description	Qty
KL-1682-202 A	Locking Tool for Crankshafts, 1.9 JTD and 2.4 JTD	1
KL-0482-461 A	Locking Pin for Camshaft (2 pcs.)	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-0482-4690 A	Plastic Storage Case	1

KL-0482-701

Locking Tool Set, Opel/Vauxhall

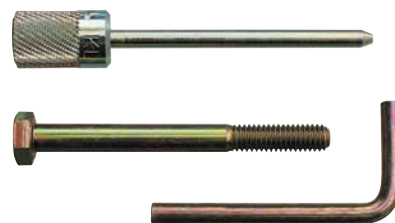
Applicable to Opel/Vauxhall 1.7 DI / DTI / CDTI Diesel engines as found in: Astra-G, Astra-H, Astra-J, Combo-C, Corsa-C, Corsa-D, Meriva-A, Meriva-B, Zafira-A, Zafira-B. (Engine codes: A17DT, A17DTC, A17DTJ, A17DTR, A17DTS, LPL, LPV, LUB, LUD, LUE, Y17DT, Y17DTI, Y17DTL, Z17DT, Z17DTH, Z17DTJ, Z17DTL, Z17DTR)

These tools are used for locking/positioning engine shafts such as camshaft and injection pump shaft, as well as the V-ribbed belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0482-701 Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1280-241 A	Hex Screw, M6x60mm	2
KL-0482-483	Retaining Pin (angled), Ø 4.5mm	1



KL-1280-24 KC

Locking Tool Set, Renault

Applicable to Renault, Opel/Vauxhall and Nissan 1.5, 1.9, 2.2, 2.5, 2.8 and 3.0 litre Common Rail Diesel engines as found in Renault Clio II / III, Espace IV, Fluence, Kangoo I / II, Laguna II / III, Logan, Mascott, Master II, Megane I / II / III, Modus I / II, Scenic I / II / III, Traffic II, Twingo II, Vel Satis; Dacia Duster, Logan; Nissan Cube, Interstar, Juke, Kubistar, Micra, Navara, Note, NV200, Primastar, Qashqai, Tiida; Suzuki Grand Vitara, Jimny; Mitsubishi Carisma, Space Star; Opel/Vauxhall Movano-A, Vivaro.

(Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, G9T 600, G9T 605, G9T 606, G9T 607, G9T 642, G9T 645, G9T 700, G9T 702, G9T 702/703, G9T 703, G9T 706, G9T 707, G9T 720, G9T 722, G9T 742/743, G9T 750, G9T F722, G9U 630, G9U 632, G9U 650, G9U 720, G9U 724, G9U 726, G9U 730, G9U 750, G9U 754, G9U A720, K9K, K9K 262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702, VG30E)

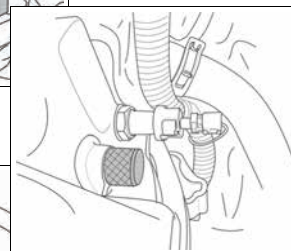
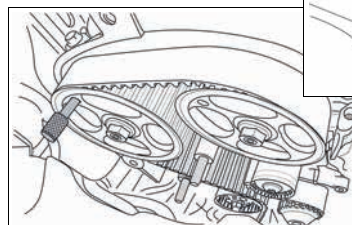
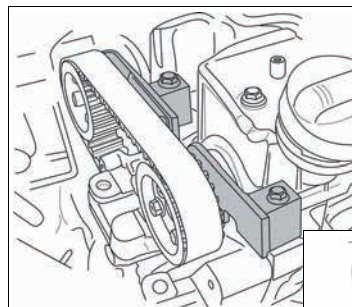
Designed for the locking/positioning of camshafts, crankshaft, injection pump, timing belt tensioner and flywheel. The kit also includes tools to stretch/pre-set the tension on the timing belt.

An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-24 KC Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-203 A	Lockin Pin, Ø 4.9mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-242 A	Locking Tool for Camshafts	1
KL-1280-243 B	Locking Pin, Ø 7mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1





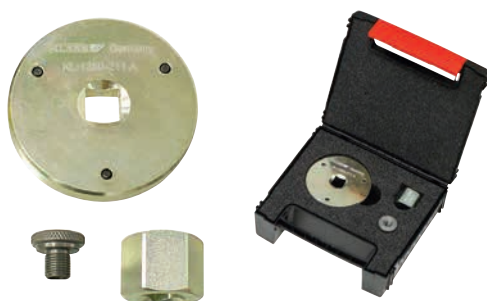
KL-1280-702 K Locking Tool Set, Renault

Applicable to Mitsubishi, Nissan, Opel/Vauxhall, Renault, and Suzuki 1.9 and 3.0 litre Diesel engines as found in: Renault Clio II, Espace IV, Kangoo, Laguna II, Master II, Megane I / II / III, Scenic I / II / III / RX4, Traffic II; Opel/Vauxhall Movano-A, Vivaro; Mitsubishi Carisma, Space Star; Nissan Interstar, Primastar, Navara; Suzuki Grand Vitara; Volvo S40/V40. (Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, VG30E)

Designed for the locking/positioning of the crankshaft, injection pump and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-702 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1



KL-1280-21 KA Injection Pump Adjustment Tool, Renault 1.9 D

Applicable to Renault, Mitsubishi, Opel/Vauxhall and Volvo 1.9 litre direct-injection Diesel engines with adjustable injection pump sprocket as found in Renault Megane/Scenic, Kangoo; Mitsubishi Carisma, Space Star; Opel/Vauxhall Arena; Nissan Interstar, Primastar and Volvo S40/V40.

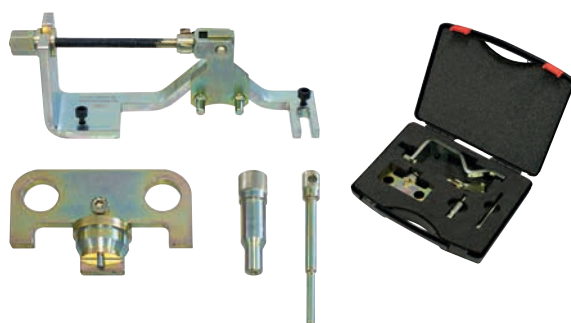
This injection pump adjustment tool is used in conjunction with the KL-0129-1 A tool set and the corresponding locking tools for adjusting the injection pump timing relative to the crankshaft (start-of-delivery setting).

Scope of Delivery: KL-1280-21 KA Injection Pump Adjustment Tool

Part No.	Description	Qty
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-0129-2105 A	Adaptor for Bosch Pumps, M10x1 to M8x1	1
KL-1280-2190	Plastic Storage Case	1

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(Engine codes: F8Q, F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, D 4192 T, D 4192 T2)



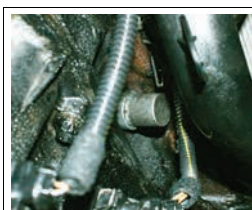
KL-0482-41 KB Locking Tool Set, Opel/Vauxhall 2.0 D, 2.2 D

Suitable for the Opel/Vauxhall 2.0 and 2.2 ECOTEC/DTi Diesel engines as found in Opel/Vauxhall Astra, Astra Caravan, Zafira, Vectra, Omega, Sintra and Frontera. (Engine codes: X20DTL, X22DTH, Y20DTL, X20DTH, Y22DTH, Y20DTH, Y22DT, Y22DTR)

Designed to lock/position engine shafts such as camshaft, crankshaft as well as the injection pump and camshaft sprocket while adjusting the timing. Required when replacing a timing chain or during an engine repair.

Scope of Delivery: KL-0482-41 KB Locking Tool Set, Opel/Vauxhall 2.0 D, 2.2 D

Part No.	Description	Qty
KL-0482-411 A	Setting Gauge for Camshaft	1
KL-0482-412 A	Locking Pin for Crankshaft	1
KL-0482-413 A	Locking Pin for Injection Pump	1
KL-0482-414 B	Adjustment Tool for Camshaft Sprocket	1
KL-0482-4190 A	Plastic Storage Case	1



KL-0482-42 B

Diesel Suction Pump with 700mm Hose, Opel/Vauxhall

Suitable for use on Opel/Vauxhall 2.0 and 2.2 Ecotec Diesel engines with VP 44 injection pump. (Engine codes: X20DTL, X20DTH, X22DTH)

This pump is needed to bleed the fuel system if the latter has been opened, for example, for a fuel filter replacement or for an engine repair.

Scope of Delivery: KL-0482-42 B Diesel Suction Pump with 70cm Hose

Part No.	Description	Qty
KL-0482-42 A	Diesel Suction Pump	1
KL-0482-420 B	Hose 700mm	1

Note: The **KL-0482-420 B** hose (700mm) is also individually available to allow the **KL-0482-42 A** Diesel suction pump to be upgraded to **KL-0482-42 B**.



KL-0482-48 A

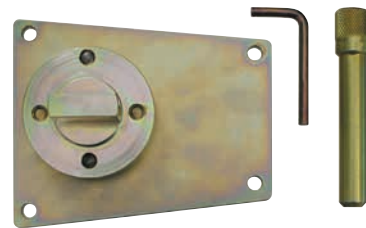
Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall and Chevrolet 2.0 litre Diesel engines as found in: Opel/Vauxhall Antara, Captiva; Chevrolet Captiva, Cruze, Epica, Lacetti, Nubira. (Engine codes: LLW, RA420, Z20DM, Z20DMH, Z20S1)

These tools are designed to be used for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as for locking the V-ribbed belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0482-48 A Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-481	Locking Tool for Camshaft	1
KL-0482-482	Locking Pin, Ø 12mm	1
KL-0482-483	Retaining Pin (angled), Ø 4.5mm	1



KL-1280-27 K

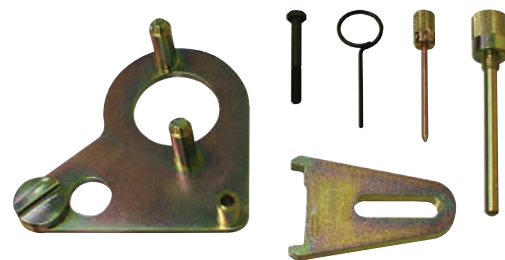
Locking Tool Set, Renault 2.0 dCi

Applicable to Renault, Nissan, Opel/Vauxhall 2.0 and 2.3 dci Diesel engines as found in Renault Espace IV, Koleos, Laguna, Master, Megane, Senic III, Traffic II, Vel Statis; Nissan: Primastar, Qashqai, X-Trail; Opel/Vauxhall: Movano-B, Vivaro. (Engine codes: M9R, M9T)

Designed for the locking/positioning of camshaft, crankshaft and timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-1280-27 K Locking Tool Set, Renault 2.0 dCi

Part No.	Description	Qty
KL-1280-271	Locking Tool for Camshaft	1
KL-1280-272	Locking Pin, M10/Ø 7.5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0182-19 A	Flywheel Locking Tool	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1280-2790	Plastic Storage Case	1

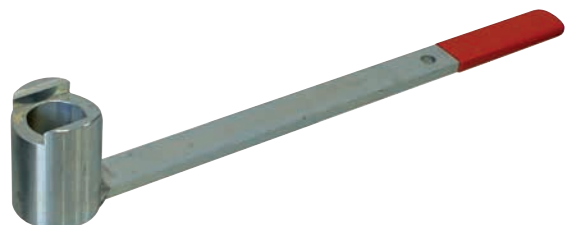


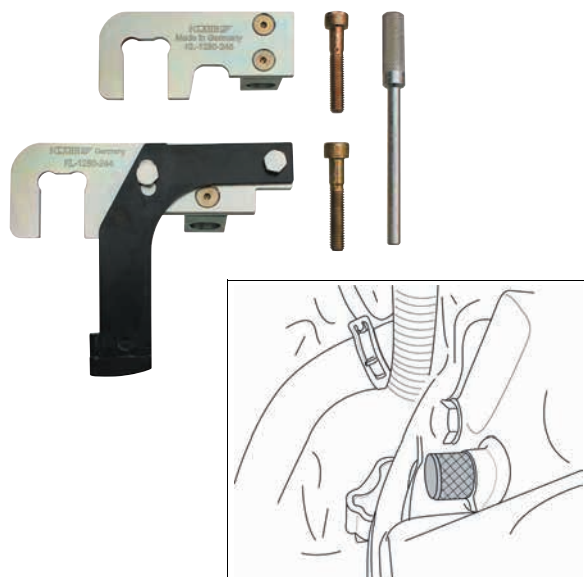
KL-1280-273

Reaction Wrench

Applicable to Renault, Nissan, Opel/Vauxhall 2.0 dci, 2.3 dCi/CDTi and 3.0 dCi Diesel engines as found in Renault Espace, Koleos, Laguna, Latitude, Master, Megane, Trafic, Vel Satis; Nissan Primastar, Qashqai, X-Trail; Opel/Vauxhall Movano-B, Vivaro. (Engines codes: M9R, M9T, V9X)

This tool is used to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw. Required when replacing a timing belt or performing an engine repair.





KL-1280-703

Locking Tool Set, Renault

Applicable to Nissan, Opel/Vauxhall and Renault 2.2 and 2.5 litre Diesel engines as found in: Renault Espace, Laguna II, Master II, Traffic II, Vel Satis; Opel/Vauxhall Movano-A, Vivaro; Nissan Interstar, Primastar.

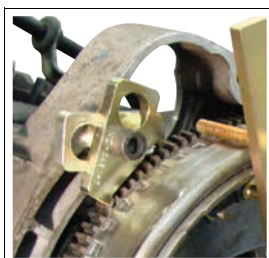
(Engine codes: G9T 600, G9T 605, G9T 606, G9T 607, G9T 642, G9T 645, G9T 700, G9T 702, G9T 703, G9T 706, G9T 707, G9T 720, G9T 722, G9T 742, G9T 743, G9T 750, G9T F722, G9U 630, G9U 632, G9U 650, G9U 720, G9U 724, G9U 726, G9U 730, G9U 750, G9U 754, G9U A720)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-703 Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-242 A	Locking Tool for Camshaft	1
KL-1280-243 B	Locking Pin, Ø 7mm	1



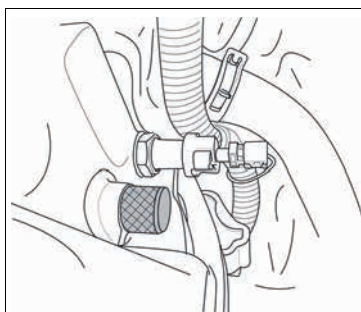
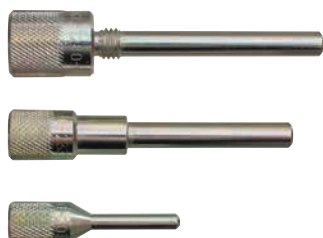
KL-0481-70

Flywheel Locking Tool (pair)

Applicable to Opel/Vauxhall 2.2 and 2.5 DTI/CDTI engines (Engine codes: G9T F722, G9T 720, G9T 750, G9U A720, G9U 724, G9U 726, G9U 750, G9U 754) and Suzuki 1.3 DDiS engines (Engine codes: D13A, Z13DT, Z13DTJ).

Designed to be used for locking the flywheel with the gearbox removed. Universal range of application.

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KL-1280-701

Locking Tool Set, Renault

Applicable to Dacia, Nissan, Opel/Vauxhall, Renault, Suzuki and Mercedes 1.5 and 2.8 litre Diesel engines as fitted to: Renault Clio II / III, Fluence, Kangoo I / II, Laguna III, Logan, Mascott, Master II / Propulsion / RWD, Megane II / III, Modus I / II, Scenic I / II, Twingo II; Opel/Vauxhall Movano-A; Dacia Duster, Logan / MCV / Pick-up / Van; Nissan Cube, Juke, Kubistar, Micra, Note, NV200, Qashqai, Tiida; Suzuki Jimny; Mercedes A-Class, B-Class, Citan, CLA.

(Engine codes: K9K, K9K262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 838, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898; S9W 206, S9W 208, S9W 212, S9W 700, S9W 702, 607.951)

Designed for the locking/positioning of engine shafts such as camshaft, crankshaft, injection pump and flywheel.

An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-701 Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1

KL-0482-47 KA

Locking Tool Set, Opel/Vauxhall

Universally applicable to Alfa Romeo, Fiat, Lancia, Opel/Vauxhall and Suzuki petrol and Diesel engines as found in Opel/Vauxhall Agila, Astra, Barina, Combo-C, Corsa-C / -D, Frontera-B, Insignia, Meriva-A / -B, Omega-B, Signum, Tigra, Vectra-C, Zafira-A / -B; Saab 9.3, 9.5; Suzuki Ignis, Splash, Swift, Wagon R+; Subaru Justy; Alfa Mito; Fiat 500, Doblo, Fiorino, Idea, Linea, Panda, Punto, Qubo, Strada; Lancia Musa, Ypsilon; Ford Ka.

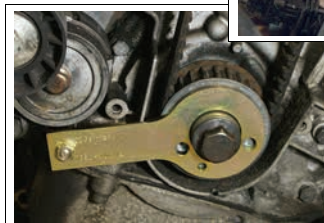
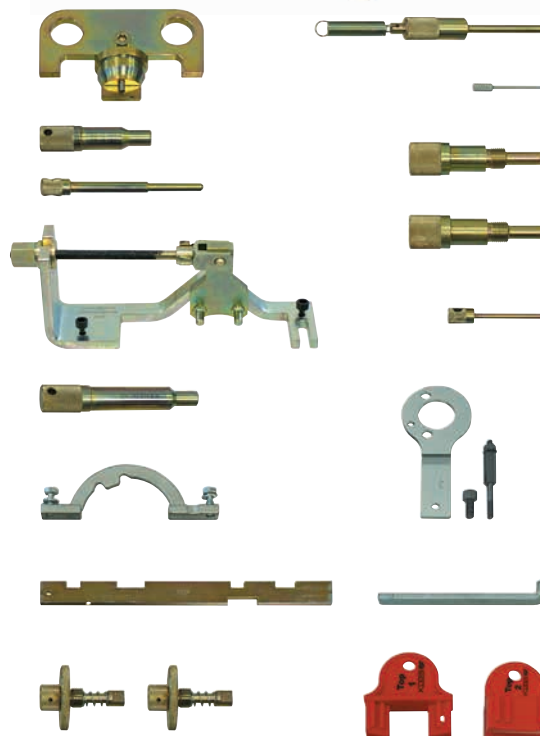
(Engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000, A13DTC, A13DTE, A13DTR, D13A, LBS/A20DTH, LBX/A20DTJ, LBY/A20DTR, LCD/A20DTC, LDV/A13DTC, LSF/A13DTE, Y16XE, Y20DTH, Y20DTL, Y22DTH, Y22DTR, Y22SE, Z10XE, Z10XEP, Z12XE, Z12XEP, Z13DT, Z13DTE, Z13DTH, Z13DTI, Z13DTJ, Z13DTR, Z14XE, Z14XEL, Z14XEP, Z16XE, Z16YNG, Z18XE, Z18XEL, Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z19DTR, Z20LEH, Z20LEL, Z20LER, Z20LET, Z22XE)

This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft, and injection pump shaft as well as the timing belt tensioner. Essential tool kit when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0482-47 KA Locking Tool Set, Opel/Vauxhall

Part No.	Description	Applications:
KL-0482-30	Locking Tool Set, Opel/Vauxhall 1.4, 1.6, 1.8, 2.0	1.4 16V (X14XE, Z14XE); 1.6 16V (C16XE, X16XE, Z16XE, X16XEL, Z16YNG); 1.8 16V (X18XE, Z18XE, Z18XEL); 2.0 16V (X20XEV, X20XER, Z20LER, Z20LEH) and 2.2 16V (X22SE, Y22SE, Y22XE, Z22XE) Opel/Vauxhall TwinCam petrol engines.
KL-0482-411 A	Setting Gauge for Camshaft	Opel/Vauxhall 2.0 and 2.2 Ecotec Diesel engines (X20DTL, X20DTH, Y20DTH, X22DTH) e.g. Opel/Vauxhall Astra, Astra Caravan, Zafira, Vectra, Omega, Sintra and Frontera.
KL-0482-412 A	Locking Pin for Crankshaft	Applications as KL-0482-411 A
KL-0482-413 A	Locking Pin for Injection Pump	Applications as KL-0482-411 A
KL-0482-414 B	Adjustment Tool for Camshaft Sprocket	Applications as KL-0482-411 A
KL-0482-432 A	Locking Pin for Crankshaft	Opel/Vauxhall TwinCam 1.0 12V; 1.2 and 1.4 16V petrol engines (X10XE, Z10XE, Z10XEP, X12XE, Z12XE and Z14XEP e.g. Corsa, Agila, Astra and Meriva etc.
KL-0482-433 A	Setting Gauge for Camshaft Pulse Generator	Applications as KL-0482-432 A
KL-0482-450 A	Locking Tool for Camshaft (2 pieces)	Opel/Vauxhall 1.3 CDTi Diesel engines (Z13DT) e.g. Corsa etc.
KL-0482-451 A	Locking Pin for Crankshaft Ø 6mm	Applications as KL-0482-450 A
KL-0482-461 A	Locking Pin for Camshaft (2 pieces)	Opel/Vauxhall 1.9 CDTi Diesel engines (Z19DT, Z19DTH) e.g. Opel/Vauxhall Astra H, Vectra C, Signum, Zafira B etc.
KL-0482-462 A	Locking Pin, Ø 4mm	Applications as KL-0482-461 A
KL-0680-15 A	Setting Gauge for Camshafts	Applications as KL-0482-432 A
KL-1682-202 A	Locking Tool for Crankshafts, 1.9 JTD/2.4 JTD	Applications as KL-0482-461 A
KL-0180-3024	Retaining Pin, Ø 2.4mm	Designed to lock the automatic timing belt tensioner when replacing timing belts.
KL-0481-71 A	Locking Tool for Flywheel	Opel/Vauxhall 1.4 and 1.6 Eco-Tec 16 V; 1.2 - 1.6 OHC (with aluminium oil sump) and 1.8 16V (X18E1, X18XE1).
KL-0482-4790	Plastic Storage Case	





KL-0182-1 A

(Universal)

Flywheel Locking Tool

Applicable to Renault vehicles equipped with either a 1.2, 1.5 or 1.6 litre engine such as Renault Clio II/III, Kangoo I/II, Megane III, Modus I/II, Twingo II.
(Engine codes: D4F, D4Ft, K9K, K4M)

Designed to lock the flywheel with the gearbox removed.
Universal range of application.



KL-0481-71 A

Flywheel Locking Tool, Opel/Vauxhall

Applicable to the following Opel/Vauxhall engines: 1.4 and 1.6 Eco-Tec 16V; 1.2-1.6 OHC (with aluminium oil sump) and 1.8 16V; 1.9 DI / DTI, 2.0 and 2.5 CDTi.
(Engine codes: A16LER, F4R 720/722, F4R 820, F9Q 760, F9Q 762, G9U 630, G9U 632, G9U 650, LGE/A16XNT, X18E1, X18XE1, Y16XE, Z14XE, Z16LER, Z16LET, Z16SE, Z16YNG, Z16XE, Z16XE1, Z16XEP, Z18XE, Z18XEL)

This tool is used for locking the flywheel.

KL-0484-11 A

V-Belt Tensioner Tool, Opel/Vauxhall 1.0, 1.2, 1.4, Torx® E18/E14



Applicable to Opel/Vauxhall TwinCam (DOHC) 1.0 12V, 1.2 and 1.4 16V petrol engines as found in Corsa, Agila, Astra and Meriva etc.
(X10XE, Z10XE, Z10XEP, X12XE, Z12XE und Z14XEP)

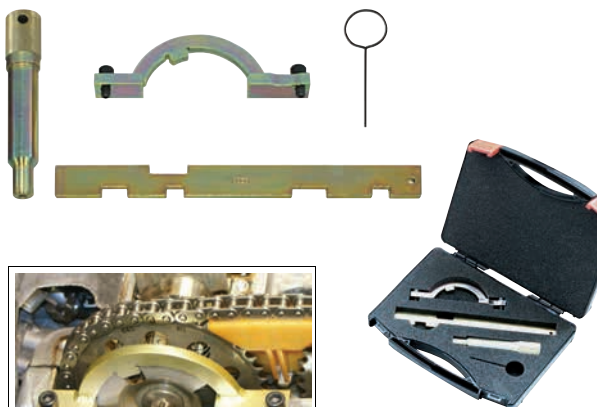
When removing the auxiliary belt, it is necessary to set the belt tensioner to zero position using the **KL-0484-110 A** tensioner spanner, and then lock it in place by means of locking pin **KL-0484-111 A**.

Scope of Delivery: KL-0484-11 A V-Belt Tensioner Tool

Part No.	Description	Qty
KL-0484-110 A	V-Belt Tensioner Spanner, Torx® E18/E14	1
KL-0484-111 A	Locking Pin, Ø 3.9mm	1

KL-0482-43 KA

Locking Tool Set, Opel/Vauxhall 1.0 12V, 1.2 16V, 1.4 16V



Application: Opel/Vauxhall 1.0 12V as well as 1.2 and 1.4 16V TwinCam (DOHC) petrol engines; as fitted to Opel/Vauxhall Corsa C, Corsa D, Astra G, Astra H, Agila A, Combo C, Meriva A, Tigra B and Suzuki Wagon R+ etc.
(Engine codes: X10XE, Z10XE, Z10XEP, X12XE, Z12XE, Z12XEP, Z14XEL, Z14XEP)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as for locking the timing chain tensioner.
An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery: KL-0482-43 KA Locking Tool Set

Part No.	Description	Qty
KL-0482-432 A	Locking Pin for Crankshaft	1
KL-0482-433 A	Setting Gauge for Camshaft Pulse Generator	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0482-4390 A	Storage Case with Insert	1

KL-0482-751 KA

Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall 1.0, 1.2 and 1.4 litre petrol engines as found in Astra-J, Corsa-D, Insignia, Meriva-B, Zafira-C.

(Engine codes: A10XEP, A12XEL, A12XER, A14NEI, A14NEL, A14NET, A14XEL, A14XER, LDD, LUH, LUJ)

Designed for the locking/positioning of camshafts, crankshaft, and timing chain tensioner. The kit also includes a tool to lock the position sensor disc. An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery: KL-0482-751 KA Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-7510	Locking Tool for Camshaft	1
KL-0482-7513	Locking Tool for Camshaft	1
KL-0482-432 A	Locking Pin for Crankshaft	1
KL-0680-15 A	Setting Gauge for Camshaft	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



KL-0482-751 K

Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall 1.0, 1.2 and 1.4 litre petrol engines as found in Astra-J, Corsa-D, Insignia, Meriva-B, Zafira-C.

(Engine codes: A12XEL, A12XER, A14NEI, A14NEL, A14NET, A14XEL, A14XER, LDD, LUH, LUJ)

The tool set is designed to be used for the locking/positioning of the timing chain tensioner and engine shafts such as camshafts and crankshaft when changing a timing chain or during an engine repair.

Scope of Delivery: KL-0482-751 K Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-7510	Locking Tool for Camshaft	1
KL-0482-432 A	Locking Pin for Crankshaft	1
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



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KL-0482-32 K

Locking Tool Set, Opel/Vauxhall

Applicable to the following Opel/Vauxhall TwinCam petrol engines: 1.4 16V (X14XE, Z14XE), 1.6 16V (C16XE, X16XE, Y16XE, Z16XE, X16XEL, Z16YNG), 1.8 16V (X18XE, Z18XE, Z18XEL), 2.0 16V (X20XEV, X20XER, Z20LEH, Z20LEL, Z20LER, Z20LET) and 2.2 16V (X22SE, Y22SE, Y22XE, Z22XE) Opel/Vauxhall TwinCam petrol engines.

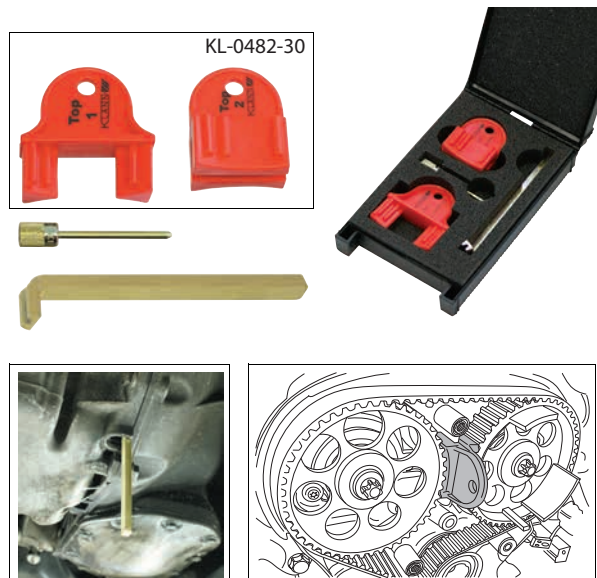
This tool set is designed for the locking/positioning of camshafts, and for the locking of the crankshaft. It also includes a tool to fix the V-ribbed belt tensioner pulley. Indispensable tool kit when replacing a timing belt or performing an engine repair.

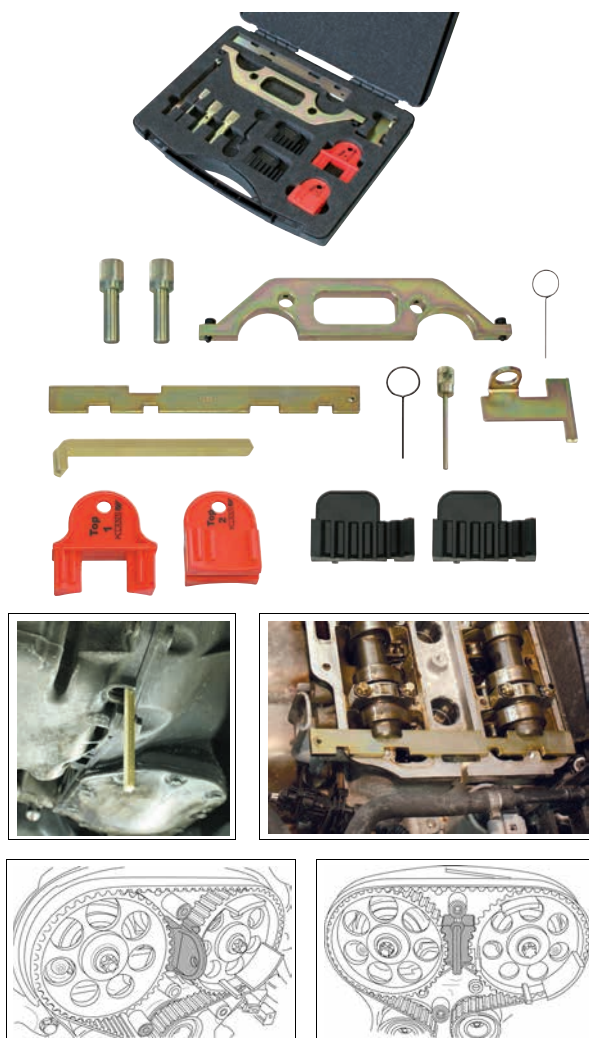
Scope of Delivery: KL-0482-32 K Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0481-71 A	Flywheel Locking Tool, Opel/Vauxhall	1
KL-0482-30	Locking Tool Set, Opel/Vauxhall 1.4, 1.6, 1.8, 2.0, 2.2	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-0482-3290	Plastic Storage Case	1

Scope of Delivery: KL-0482-30 Locking Tool Set

Part No.	Description	Suitable for
KL-0482-301	Locking Tool for Camshafts	Opel/Vauxhall 1.8 16V, 2.0 16V, 2.2 16V
KL-0482-302	Locking Tool for Camshafts	Opel/Vauxhall 1.4 16V, 1.6 16V





KL-0482-33 KA

Locking Tool Set,

Opel/Vauxhall 1.4, 1.6, 1.8, 2.0 and 2.2

Applicable to the Opel/Vauxhall TwinCam (DOHC) petrol engines:

1.4 16V (G14D, X14XE, Z14XE), 1.6 16V (A16LEL, A16LER, A16LET, A16XER, A16XNT, LDE/A16XER, LDE/F16D4, LED, LGE/A16XNT, LLU/A16LET, LXV/F16D4, Y16XE, Z16LEL, Z16LER, Z16LET, Z16YNG, Z16XE, Z16XE1, Z16XEP, Z16XER, Z16XNT, 192B3.000/Z16XEP), 1.8 16V (A18XER, F18D, Z18XE, Z18XEL, Z18XER, 2HO/A18XEL, 2HO/A18XER, 2HO/Z18XER), 2.0 16V (X20XER, X20XEV, Z20LEH, Z20LEL, Z20LER, Z20LET) and 2.2 16V (X22SE, Y22SE, Z22SE, Y22XE, Z22XE, Z22YH); as installed in Opel/Vauxhall: Corsa C, Astra G, Vectra B, Vectra C, Meriva, Zafira A, Zafira B, Combo C, Corsa D, Astra H, Signum, Tigra B, Zafira, Speedster, Omega B, Sintra A, Frontera B, Alfa: 159, Chevrolet: Aveo, Cruze, Fiat: Croma.

Designed for the locking/positioning and checking of engine shafts such as camshaft and crankshaft. The set also includes tools to lock/position the timing belt tensioner. An indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0482-33 KA Locking Tool Set, Opel/Vauxhall 1.4, 1.6, 1.8, 2.0 and 2.2

Part No.	Description	Qty
KL-0482-331	Locking Tool Set, Opel/Vauxhall 1.6	1
KL-0482-332	Flywheel Holding Tool	1
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-0481-71 A	Flywheel Locking Tool, Opel/Vauxhall	1
KL-0482-301	Locking Tool for Camshafts, Opel/Vauxhall 1.8, 2.0 and 2.2	1
KL-0482-302	Locking Tool for Camshafts, Opel/Vauxhall 1.4 and 1.6	1
KL-0482-440 A	Locking Tool Set, Opel/Vauxhall 2.2 16V	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-0482-333	Setting Gauge for Camshafts	1
KL-0482-3390	Plastic Storage Case	1

KL-0482-34 KA

Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall 1.6, 1.8; Chevrolet 1.4, 1.6, 1.8, as well as Saab and Fiat 1.6 TwinCam petrol engines.

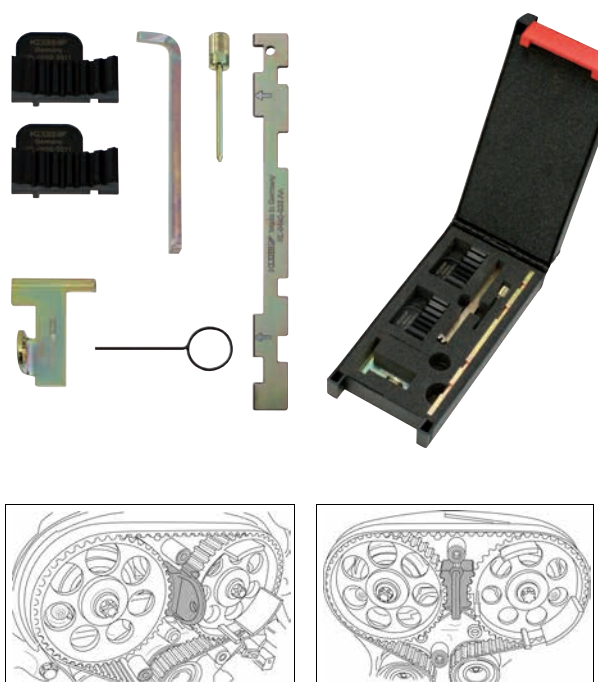
(Engine codes: A16LEL, A16LER, A16XER, A16XNT, A18XER, Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER, Z16XNT, Z18XER, LED, F18D, G14D, LDE/A16XER, LDE/F16D4, LGE/A16XNT, LLU/A16LET, LXV/F16D4, 2HO/A18XEL, 2HO/A18XER, 2HO/Z18XER, 192.B3.000)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft. Also includes a tool to lock the timing belt tensioner. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0482-34 KA Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-331	Locking Tool Set, Opel/Vauxhall 1.6	1
KL-0482-332	Locking Device for Flywheel	1
KL-0482-333 A	Setting Gauge for Camshafts	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-0481-71 A	Locking Tool for Flywheel	1
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-0482-3490	Plastic Storage Case	1



KL-0482-331

Locking Tool Set, Opel/Vauxhall 1.6

Applicable to Opel/Vauxhall (Chevrolet/Saab/Fiat) 1.4, 1.6, 1.8 litre TwinCam petrol engines. (Engine codes: A16LEL, A16LER, A16LET, A16XER, A16XNT, A18XER, F18D, G14D, LDE/A16XER, LDE/F16D4, LED, LGE/A16XNT, LLU/A16LET, LXV/F16D4, Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER, Z16XNT, Z18XER, 192B3.000 (Z16XEP), 2HO/A18XEL, 2HO/A18XER, 2HO/Z18XER); as installed in Astra-G, Astra-H, Corsa-C, Corsa-D, Insignia, Meriva, Signum, Tigra-B Roadster, Vectra-B, Vectra-C, Zafira-A, Zafira-B etc.

This tool set is designed to lock two camshaft sprockets to one another, so as to prevent the camshaft from turning while changing the timing belt



KL-0482-35

Locking Tool Set, Opel/Vauxhall

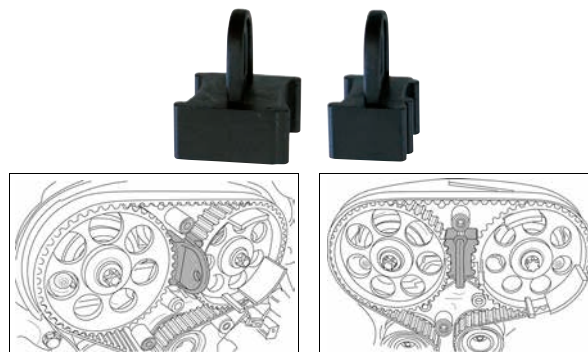
Applicable to Opel/Vauxhall 1.8 16V and 2.0 16V petrol engines as installed in Astra, Cavalier, Calibra, Vectra, Omega.

Indispensable tool set for the locking of camshafts/camshaft sprockets.

Scope of Delivery:

KL-0482-35 Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-313 A	Locking Tool for Camshafts, 1.8 16V and 2.0 16V	1
KL-0482-314 A	Locking Tool for Camshafts, 2.0 16V	1



KL-1280-23 KB

Locking Tool Set for Timing Belt, Renault 1.4, 1.6, 1.8, 2.0 16V and 1.5 dCi

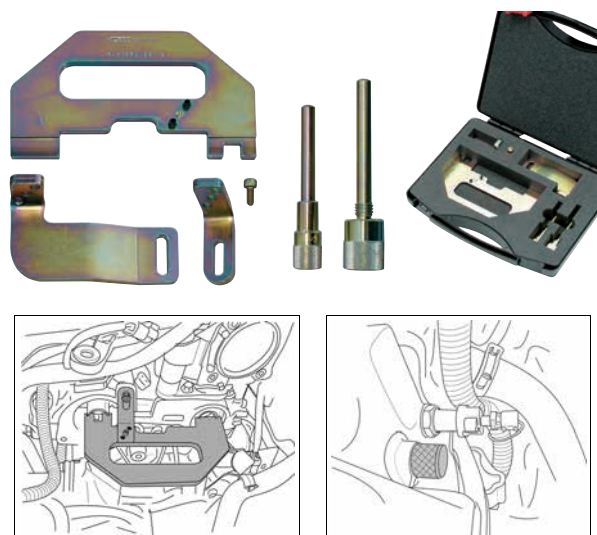
Applicable to Renault 1.4, 1.6 16V (K4J / K4M [98-]), 1.8, 2.0 16V (F4P / F4Rt / F4R [98-]) TwinCam petrol engines, and 1.5 dCi (K9K) Diesel engines; as installed in Renault Clio, Clio Sport, Modus, Megane / Scenic, Kangoo, Espace, Laguna; Nissan Micra, Almera, Kubistar, Cube, Juke, Note, NV200, Qashqai and Tiida; Dacia 1.5 Duster and Logan; Opel/Vauxhall Vivaro; Suzuki 1.5 Jimny.

Tool set for the locking/positioning of engine shafts such as camshafts and crankshaft; required when changing a timing belt or during an engine repair.

Scope of Delivery:

KL-1280-23 KB Locking Tool Set for Timing Belt

Part No.	Description	Qty
KL-1280-231 B	Setting Gauge for Camshafts	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-2390 B	Plastic Storage Case	1



6

KL-1280-237

Installation Tool Set, Renault

Suitable for use on Renault 1.4, 1.6, 1.8 and 2.0 16V TwinCam petrol engines as found in Renault Clio, Avantage, Laguna, Megane, Modus, Scenic, Trafic, Twingo, Vel Satis, Kangoo and Espace; Dacia Duster and Logan; Nissan Primastar; Opel/Vauxhall Vivaro. (Engine codes: K4J, K4M, F4P, F4R, F4Rt, F5R).

These tools allow for the quick and easy installation of camshaft plugs. They are required when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-237 Installation Tool Set, Renault

Part No.	Description	Qty
KL-1280-2371	Installation Tool, Ø 43mm	1
KL-1280-2372	Installation Tool, Ø 57.5mm	1





KL-0482-44 KA

Locking Tool Set, Opel/Vauxhall 2.2 16V

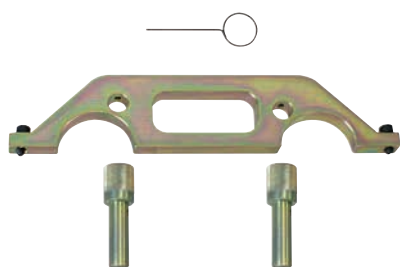
Applicable to Opel/Vauxhall 2.2 16V TwinCam (DOHC) petrol engines (Z22SE, Z22YH, 194A1.000) as installed in Astra, Signum, Speedster, Vectra and Zafira etc.; Fiat Croma.

Designed for the locking/positioning of camshafts, timing chain tensioners, and water pump pulleys. The kit also includes a tool to hold the crankshaft pulley in position. An indispensable tool kit when performing an engine repair, for example, when changing a timing chain or when removing/installing a water pump.

Scope of Delivery:

KL-0482-44 KA Locking Tool Set, Opel/Vauxhall 2.2 16V

Part No.	Description	Qty
KL-0482-442 A	Locking Tool for Water Pump, Opel/Vauxhall 2.2 16V	1
KL-0184-041	Reaction Wrench, Opel/Vauxhall	1
KL-0482-440 A	Locking Tool Set, Opel/Vauxhall 2.2 16V	1
KL-0482-4090	Plastic Storage Case	1



KL-0482-440 A

Locking Tool Set, Opel/Vauxhall 2.2 16V

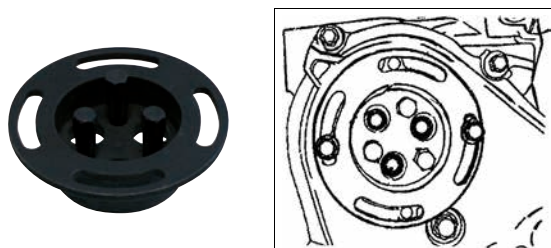
Applicable to Opel/Vauxhall 2.2 16V TwinCam (DOHC) petrol engines (Z22SE, Z22YH, 194A1.000) as found in Astra, Signum, Speedster, Vectra and Zafira etc.; Fiat Croma.

Designed for the locking/positioning of the camshafts and timing chain tensioner during an engine repair.

Scope of Delivery:

KL-0482-440 A Locking Tool Set, Opel/Vauxhall 2.2 16V

Part No.	Description	Qty
KL-0482-4401 A	Locking Tool for Camshafts, Opel/Vauxhall 2.2 16V	1
KL-0180-3012	Retaining Pin, Ø 1.2mm	1

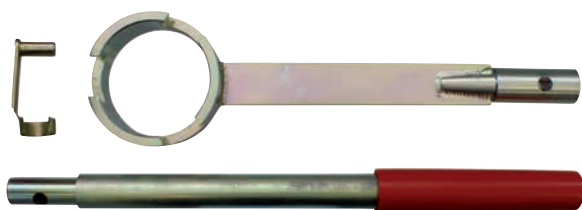


KL-0482-442 A

Locking Tool for Water Pump, Opel/Vauxhall 2.2 16V

Applicable to Opel/Vauxhall 2.2 16V TwinCam (DOHC) petrol engines (Z22SE) as found in Astra, Signum, Speedster, Vectra and Zafira etc.

When removing/installing the water pump, it is necessary to lock the water pump pulley by means of tool **KL-0482-442 A**.



KL-0184-041

Reaction Wrench, Opel/Vauxhall

Applicable to Opel/Vauxhall 2.2 16V TwinCam (DOHC) petrol engines; as fitted to Opel/Vauxhall Astra-G, Astra-H, Signum, Vectra-B, Vectra-C, Speedster, Zafira-A, Zafira-B; Fiat Croma. (Engine codes: Z22SE, Z22YH, 194A1.000); Alfa 159 (939) 2.2 JTS (Engine code: MKB 939 A5.000)

This tool is designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

Scope of Delivery:

KL-0184-041 Reaction Wrench, Opel/Vauxhall

Part No.	Description	Qty
KL-0184-0410	Reaction Wrench (Base Tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1

Technical Data:

Length of assembled tool:	694mm
Length of extension tube with protective handle:	403mm
Length of base tool:	341mm

KL-0482-40 K

Locking Tool Set, Opel/Vauxhall V6 engine

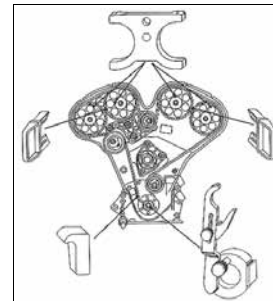
Applicable to Opel/Vauxhall 2.5, 2.6, 3.0 and 3.2 V6 petrol engines.
(Engine codes: C25XE, X25XE, Y26SE, X30XE, Y32SE, Z23SE, Z32SE until 2006)
Saab (B308E)

The KL-0482-40 K locking tool set is designed for the Opel/Vauxhall V6 engines and contains all the tools required for locking the crankshaft drive and camshaft sprockets during service work; for example for the removal, replacement/installation of the timing belt on Ecotec V6 multi-valve engines. This tool set is indispensable for the accurate positioning of the camshaft sprockets relative to the TDC (top dead centre) position of the crankshaft while installing a timing belt.

Scope of Delivery:

KL-0482-40 K Locking Tool Set, Opel/Vauxhall V6 engine

Part No.	Description	Qty
KL-0482-401	Locking Tool for Crankshaft, Opel/Vauxhall V6	1
KL-0482-402	Setting Gauge for Camshaft, Opel/Vauxhall V6	1
KL-0482-403	Holding Tool for Timing Belt, Opel/Vauxhall V6	1
KL-0482-404	Locking Tool for Camshafts (red), Opel/Vauxhall V6	1
KL-0482-405	Locking Tool for Camshafts (green), Opel/Vauxhall V6	1
KL-0482-4090	Plastic Storage Case with Insert	1



KL-0482-400

Locking Tool Set, Opel/Vauxhall V6

Applicable to Opel/Vauxhall V6 engines (Engine codes: X25XE, X26SE, X30XE, Y32SE), Saab 3.0 litre engine (Engine code: B308E).

This tool set is designed to lock two camshaft sprockets to one another, so as to prevent the camshaft from turning while changing the timing belt.



Suitable for:

KL-0482-400 Locking Tool Set, Opel/Vauxhall V6

Part No.	Description	Qty
KL-0482-404	Locking Tool for Camshaft (red), Opel/Vauxhall V6	1
KL-0482-405	Locking Tool for Camshaft (green), Opel/Vauxhall V6	1

KL-0123-2 A

Reaction Wrench, Size (waf) 36mm

Suitable for use on Ford, Opel/Vauxhall and GM vehicles.

Designed to counter-hold the viscous clutch drive shaft when removing/installing the viscous clutch.

Technical Data:

Size (waf):	36mm
Length:	280mm
Height:	11mm
Weight:	340g



KL-0483-10

Counter-Holding Tool, 39mm waf

Suitable for use on Opel/Vauxhall and GM 1.6 litre OHC engines.

(Engine codes: X16S2R, Z16SE)

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

Technical Data:

Size (waf):	39mm
Drive:	1/2"
Length:	90mm
Weight:	110g





Advantages:

- Ensures the viscous clutch is securely counter-held.
- Prevents damage to the viscous clutch.
- High-quality tool due to a special manufacturing process.

KL-0483-11

Counter-Holding Tool, 41mm waf

Suitable for use on Opel/Vauxhall and GM 1.2, 1.3, 1.4, 1.6 litre OHC engines; Daewoo 1.4, 1.5, 1.6, 1.8; Chevrolet 1.4, 1.6.

(Engine codes: A13DM/14SMS, A15DM/15SMS, A16DM, A16DMS, F14D3, F14S3, F16D3, F18N, LXT, Z16SE)

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

Technical Data:

Size (waf):	41mm
Drive:	1/2"
Length:	90mm
Weight:	110g



KL-0483-12

Counter-Holding Tool, 46mm waf

Suitable for use on Opel/Vauxhall and GM OHC engines.

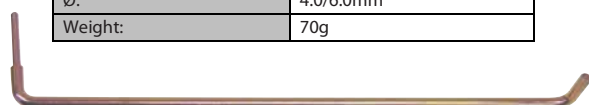
This tool is designed to turn the water pump for adjusting the tension on the drive belt.

Technical Data:

Size (waf):	46mm
Drive:	1/2"
Length:	90mm
Weight:	110g

Technical Data:

Ø:	4.0/6.0mm
Weight:	70g



KL-0484-10

Locking Tool, VW-Audi / Opel/Vauxhall

This tool is used for the locking of the automatic tensioner pulley for V-ribbed belt and timing belt on **VW-Audi** engines.

Also suitable for the automatic tensioner pulley for V-ribbed belt on **Opel/Vauxhall** vehicles that are fitted with an EcoTec engine.

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KL-1682-43 KA

Locking Tool Set, 1.3 JTD

Applicable to Fiat 1.3 16V Common Rail Diesel engines as fitted to:

• Alfa Romeo, Fiat, Lancia JTD Multi-Jet (engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000, 843A2.000)

• Ford TDCi Duratorq (engine code: FD4)

• Opel/Vauxhall CDTi (engine codes: A13DTC, A13DTE, A13DTR, D13A, LDV/ A13DTC, LSF/A13DTE, Y13DT, Y13DTH, Z13DT, Z13DTE, Z13DTH, Z13DTI, Z13DTJ, Z13DTR)

• Suzuki DDiS (engine codes: D13A, Z13DT, Z13DTJ)

• Subaru (engine code: Z13DT)

• Citroën, Peugeot (engine code: F13DTE5 (FHZ))

This tool set is designed to counter-hold the crankshaft while loosening or tightening the crankshaft central screw. It also includes tools to lock/position engine shafts such as camshaft and crankshaft when replacing a timing chain or during an engine repair.

Scope of Delivery:

KL-1682-43 KA Locking Tool Set, 1.3 JTD

Part No.	Description	Qty
KL-0482-450 A	Locking Tool for Camshaft (2 pieces)	1
KL-1682-434 A	Locking Pin, Ø 8mm	1
KL-0482-451 A	Locking Pin for Crankshaft, Ø 6mm	1
KL-1682-435	Counter-Holding Tool Set, Crank/Cam	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-1682-432 A	Holding Tool for Timing Chain Tensioner	1
KL-1682-4390 A	Plastic Storage Case	1



KL-1682-433

Locking Tool for Crankshaft

Applicable to Fiat 1.3 16V Common Rail Diesel engines.

Designed to lock/position the crankshaft.



KL-0482-46 KB

Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall, Alfa Romeo, Fiat, Lancia and Suzuki 1.6, 1.9, 2.0 and 2.4 litre Diesel engines as found in: Opel/Vauxhall Astra, Astra-H, Insignia, Signum, Vectra-C, Zafira-B; Saab 9-3, 9-5; Alfa 147, 156, 159, 166, Brera, Giulietta, GT, Mito, Spider; Fiat Bravo, Croma, Doblo, Idea, Linea, Marea, Multipla, Punto, Ritmo, Sedici, Stilo, Strada; Lancia Delta, Lybra, Musa, Thesis; Suzuki SX4.

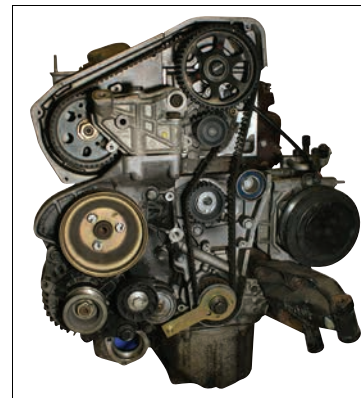
(Engine codes: 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A3.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A5.000, 192A8.000, 192A9.000, 192B1.000, 192B4.000, 192B5.000, 198A2.000, 198A3.000, 198A5.000, 198A6.000, 199A5.000, 223A6.000, 223A7.000, 223B1.000, 350A2.000, 350A3.000, 362.02, 371.01, 839A6.000, 841C.000, 841G.000, 841H.000, 841M.000, 841P.000, 844A1.000, 844A2.000, 844A3.000, 937A2.000, 937A3.000, 937A4.000, 937A5.000, 937A6.000, 939A1.000, 939A2.000, 939A3.000, 939A7.000, 939A8.000, 939A9.000, 939B3.000, 939B4.000, 940A3.000, 940A4.000, 940A5.000, 955A3.000, 955A4.000, A20DTC, A20DTH, A20DTJ, A20DTR, D19AA, D20AA, LBS, LBX, LBY, LCD, RHT, Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z19DTR)

Designed for the locking/positioning of camshafts, crankshaft and flywheel. The kit also includes a tool to lock the V-ribbed belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0482-46 KB Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-1682-202 A	Locking Tool for Crankshaft	1
KL-0482-461 A	Locking Pin Set for Camshaft	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1682-131 A	Flywheel Holding Tool	1
KL-1682-4290 A	Plastic Storage Case	1



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KL-0680-220 B

Set of Locking Pins,

Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDi; Toyota 1.0 VVT, 1.4 Di, 1.4 HDi; Volvo 1.6 D Diesel engines.

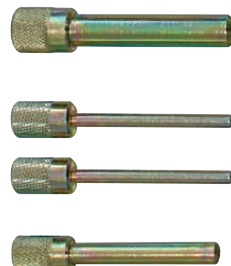
(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTED, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

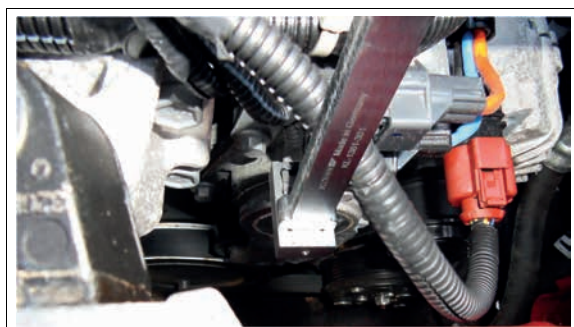
These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1





KL-1381-30

Tensioner Tool with Retaining Pin

Applicable to PSA (Citroën, Peugeot), Fiat and Ford 1.4 und 1.6 litre Diesel engines as found in:

Citroën Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4 II, C4 Picasso/Grand Picasso, C5 III, DS3, Berlingo III, DS4, DS3, DS4, Xsara II, Xsara Picasso and Peugeot Partner III, 206, 207, 207 CC, 308, 308 CC, 508, 3008, 5008.

(Engine codes: DV4, DV6)

Facilitates the tensioning and locking of V-ribbed belt tensioners.

This tool allows for the removal/installation of the V-ribbed belt in situ on the vehicle even in very limited space conditions.

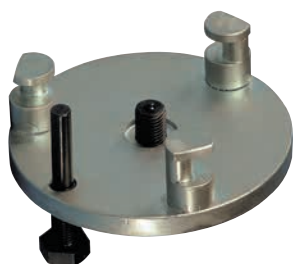
Technical Data:

Length of tension lever:	465mm
Ø of retaining pin:	4.2mm

Scope of Delivery:

KL-1381-30 Tensioner Tool with Retaining Pin

Part No.	Description	Qty
KL-1381-3021	Retaining Pin (angled), Ø 4.2mm	1
KL-1383-301	Tension Lever with Base Body	1



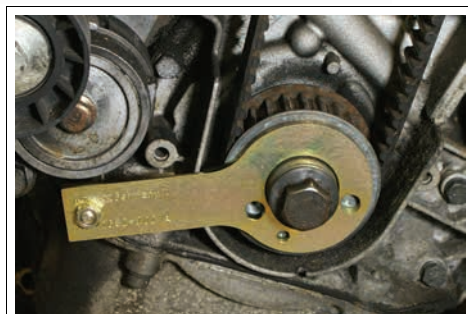
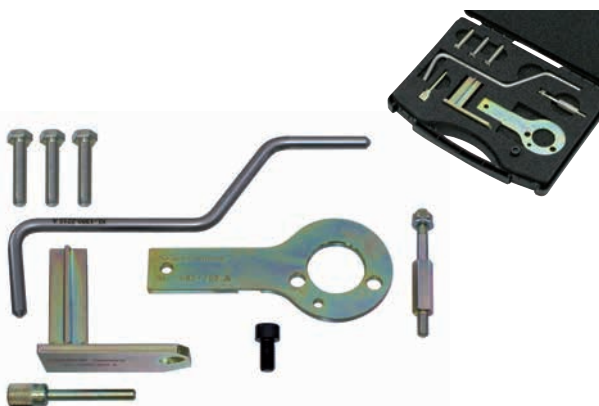
KL-1682-16

Injection Pump Locking Tool, Fiat 1.7 D, 1.9 D

Suitable for use on Fiat 1.7 and 1.9 litre Diesel/Turbodiesel engines with a non-adjustable camshaft timing belt sprocket; as installed in Fiat Croma 1.9 TD, Ducato 1.9 D (-94), Duna 1.7 D, Fiorino 1.7 D (-94), Punto 1.7 D / TD (93-95), Regata 1.7 D, Ritmo/Strada 1.7 D, Talento 1.9 D, Tempra 1.9 D, Tipo 1.7 D, Tipo 1.9 D / TD, Uno 1.7 D.

This tool is designed to lock/position the injection pump sprocket when replacing a timing belt. It can also be used to pull off the injection pump sprocket when removing the injection pump or during an engine repair.

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KL-1682-20 KA

Locking Tool Set for Timing Belt, Fiat 1.9 D/TD/JTD, 2.1 TD, 2.4 TD

Applicable to Fiat 1.9 D/TD/JTD, 2.4 TD/JTD and PSA 1.9 D/TD, 2.1 TD Diesel engines as installed in Fiat Brava, Bravo, Marea, Marea Weekend, Multipla, Punto, Scudo, Ulysse.

(Engine codes: 160 A7.000, 182 A7.000, 182 A8.000, 182 B4.000, 185 A2.000, 185 A6.000, 188 A2.000 und 188 A3.000)

Designed to lock/position the flywheel and engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-1682-20 KA Locking Tool Set for Timing Belt

Part No.	Description	Qty
KL-1380-2211 A	Locking Pin, Ø 6mm	1
KL-1380-2215 A	Locking Pin (angled) for Flywheel, Ø 7.7mm	1
KL-1480-18	Hex Screw, M8x40mm	3
KL-1682-201 A	Flywheel Holding Tool, 1.9 D	1
KL-1682-202 A	Locking Tool for Crankshaft 1.9 JTD/2.4 JTD	1
KL-1682-2090 A	Plastic Storage Case	1

KL-0680-701 K

Locking Tool Set, Ford, Fiat, PSA 2.2

Applicable to Ford, Fiat, Citroën and Peugeot 2.2 litre Common Rail Diesel engines. For example, fitted to: Ford Transit, Fiat Ducato, Citroën Relay/Jumper III and Peugeot Boxer III.

For locking the crankshaft and camshaft, as well as for aligning the engine front cover when installing it. The set also includes the necessary tool to remove/install crankshaft seal rings. An indispensable tool set when replacing timing chains or performing engine repairs.

Scope of Delivery: KL-0680-701 K Locking Tool Set, Ford, Fiat, PSA 2.2

Part No.	Description	Qty
KL-0680-7011	Locking Tool, Crankshaft	1
KL-0680-7012	Cap for Crankshaft	1
KL-0680-7013	Turning Tool for Injection Pump	1
KL-0680-2102 A	Locking Pin, Ø 14/10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1007	Plastic Storage Case	1



(Engine codes: 4HU (P22DTE), 4HV (P22DTE), CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

KL-1682-26 KA

Locking Tool Set, 2.3, 2.8 and 3.0 JTD

Applicable to Fiat, Citroën, Peugeot and Iveco 2.3, 2.8 and 3.0 litre Diesel engines as found in: Fiat Ducato; Peugeot Boxer; Citroën Relay, Jumper; Iveco Daily.

Designed for the locking/positioning of the injection pump shaft, camshafts and crankshaft. The kit also includes tools to lock the timing belt tensioner and to fix the timing belt during installation. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1682-26 KA Locking Tool Set, 2.3, 2.8 and 3.0 JTD

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1682-2601	Locking Tool for Flywheel	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1682-2401	Spacer Sleeve for Timing Belt	1
KL-1682-410 A	Locking Tool for Camshaft	1
KL-1682-411 A	Locking Tool for Crankshaft	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1682-2690	Plastic Storage Case	1



(Engine codes: 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, 8140.63, F1AE0481A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481D/SOFIM, F1CE0481F, F1CE0481H, F1CE3481D, F1CE3481D/SOFIM, F1CE3481DM, F1CE3481DM/SOFIM, F1CE3481E, F1CE3481E/SOFIM, F1CE3481M, F1CE3481N, F1CE 3481N/SOFIM, F30DTE)

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KL-1682-24 KB

Locking Tool Set

Applicable to Fiat, Opel/Vauxhall, Citroën, Peugeot, Iveco and Renault 2.5 and 2.8 litre Diesel engines as found in: Fiat Ducato; Opel/Vauxhall Movano; Renault Master, Mascott; Peugeot Boxer II, Citroën Relay, Jumper; Iveco Daily.

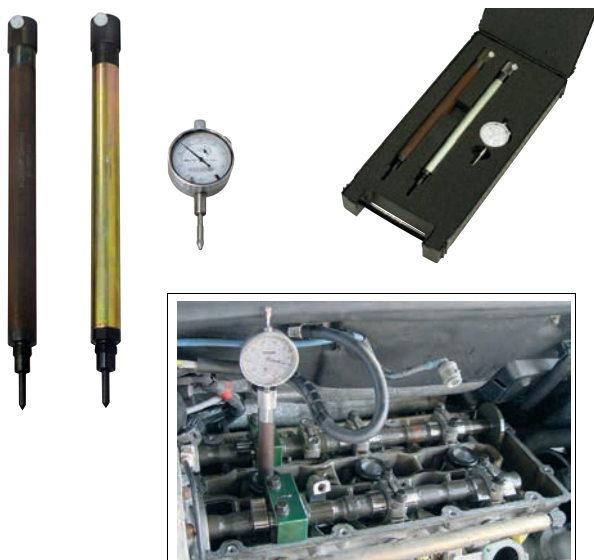
Designed for the locking/positioning of the crankshaft, injection pump shaft and flywheel. The kit also contains a tool to lock the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1682-24 KB Locking Tool Set

Part No.	Description	Qty
KL-1682-2601	Locking Tool for Flywheel	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1682-2401	Spacer Sleeve for Timing Belt	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1
KL-1280-204 A	Locking Pin, Ø 4.9/3.9mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-1682-2490	Plastic Storage Case	1



(Engine codes: 8140.43, 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, 8140.63, S8U, S8U 770, S8U 772, S9W, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702)



KL-1681-11 K

TDC Position Tool Kit,

VW-Audi/Seat/Škoda/Alfa Romeo/Fiat/Porsche

Universally applicable to vehicles with either an M12x1.25 or M14x1.25 spark plug thread; such as VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3; Seat Alhambra, Altea, Cordoba, Ibiza, Leon, Toledo; Škoda Fabia, Octavia, Roomster, Superb, Yeti; Alfa Romeo 147, 156, 166, GT, GTV, Spider; Fiat Doblo, Fiorino, Marea, Multipla, Palio, Panda, Punto, Qubo, Stilo; Lancia Lybra, Thesis. (Engine codes: 161.05, 182B6.000, 183A1.000, 185A8.000, 188A4.000, 192A2.000, 322.05, 324.05, 361.01, 362.01, 839A7.000, 841A.000, 841D.000, 841E.000, 841L.000, 932A.000, 932A2.000, 936A.000, 936A6.000, 937A1.000, AXU, BAG, BKG, BLF, BLG, BLN, BLP, BMY, BTS, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CDGA, CKMA, KFT, Kfv)

This tool is necessary to determine the TDC position on No.1 cylinder.

Scope of Delivery: KL-1681-11 K TDC Position Tool Kit

Part No.	Description	Qty
KL-1681-111	Adaptor, M14x1.25, for TDC Positioning	1
KL-1681-112	Adaptor, M12x1.25, for TDC Positioning	1
KL-0128-0	Dial Gauge, Ø 40mm	1
KL-1681-1190	Plastic Storage Case	1

KL-1682-752 K

Locking Tool Set, Fiat

Applicable to Alfa Romeo, Fiat, Lancia and Chrysler 900 cm³ petrol engines as found in: Fiat 500, Panda, Punto; Alfa Mito; Lancia Ypsilon, Chrysler Ypsilon. (Engine code: 312A200)

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as for locking the timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-1682-752 K Locking Tool Set, Fiat

Part No.	Description	Qty
KL-1682-7521	Locking Tool for Camshaft	1
KL-1682-7522	Locking Tool for Tensioner	1
KL-1682-7523	Locking Tool for Flywheel	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1

KL-1682-10 KB

Timing Belt Locking Tool Set,

Fiat 1.2 and 1.4 16 V

Applicable to Fiat and Lancia 1.2 16 V TwinCam petrol engines (Engine codes: 176B9.000, 182B2.000, 188A5.000 and 223A5.000), and Fiat, Alfa and Lancia 1.4 16V TwinCam petrol engines (Engine codes: 169A3.000, 192B2.000, 198A1.000, 198A4.000, 199A6.000, 199A8.000, 312A1.000, 312A3.000, 843A1.000 and 955A1.000) as found in Fiat New 500, Punto, Idea, Linea, Brava and Bravo.

This tool set is designed to determine the TDC position on No. 1 cylinder, to lock / position engine shafts such as camshafts and crankshaft, as well as to adjust the timing belt tensioner. It is required when replacing a timing belt or during an engine repair.

Scope of Delivery KL-1682-10 KB Timing Belt Locking Tool Set

Part No.	Description	Qty
KL-1682-101 A	TDC Position Tool (2 pieces)	1
KL-1682-102 A	Locking Tool for Camshaft (2 pieces)	1
KL-1682-103 A	Tensioner Adjustment Tool	1
KL-1682-104 A	Locking Tool for Crankshaft	1
KL-1682-105 A	Locking Tool for Camshaft	1
KL-1682-1090 B	Plastic Storage Case	1

KL-1682-25 KA

Locking Tool Set, Fiat 1.2, 1.4 8V

Applicable to Fiat/Lancia 1.2 (169A4.000, 199A4.000), 1.4 (350A1.000, 199A7.000) and Ford 1.2 (FP4) 8-valve petrol engines as found in Fiat New 500, Idea, Grande Punto, Linea, Doblo, Panda, Qubo; Lancia Musa, Ypsilon; Ford Ka.

This tool set is used for the locking/positioning of camshaft and crankshaft, as well as for adjusting the timing belt tensioner and aligning the camshaft sensor cap. Essential tools when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1682-25 KA Locking Tool Set, Fiat 1.2, 1.4 8V

Part No.	Description	Qty
KL-1682-251 A	Setting Gauge for Camshaft Sensor Cap	1
KL-1682-252 A	Holding Tool for Camshaft Sprocket	1
KL-1682-253 A	Setting Gauge for Camshaft	1
KL-1682-103 A	Tensioner Adjustment Tool	1
KL-1682-104 A	Locking Tool for Crankshaft	1
KL-1682-2590 A	Storage Case with Insert	1



KL-1682-753 K

Locking Tool Set, Fiat

Applicable to Fiat and Lancia 1.2 litre petrol engines as found in: Fiat Palio, Panda, Punto, Strada; Lancia Ypsilon. (Engine code: 188A4.000)

Designed for the locking/positioning of camshaft and crankshaft, as well as for adjusting the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1682-753 K Locking Tool Set, Fiat

Part No.	Description	Qty
KL-1682-103 A	Tensioner Adjustment Tool	1
KL-1682-104 A	Locking Tool for Crankshaft	1
KL-1682-253 A	Setting Gauge for Camshaft	1
KL-1682-3511 A	Setting Gauge for Camshaft	1
KL-1682-3512 A	Setting Gauge for Camshaft	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



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KL-1682-11 KA

Locking Tool Set, Fiat 1.4 12V

Applicable to Fiat 1.4 12V petrol engines (182 A3.000, 182 A5.000) as found in Fiat Brava, Bravo, Marea, Marea Weekend.

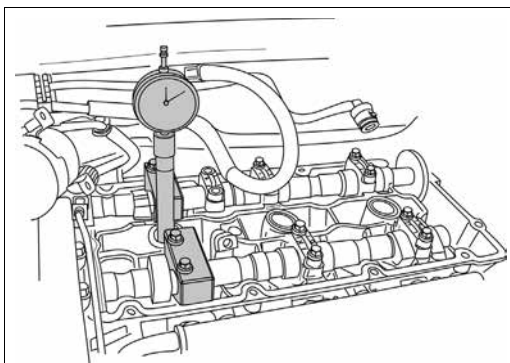
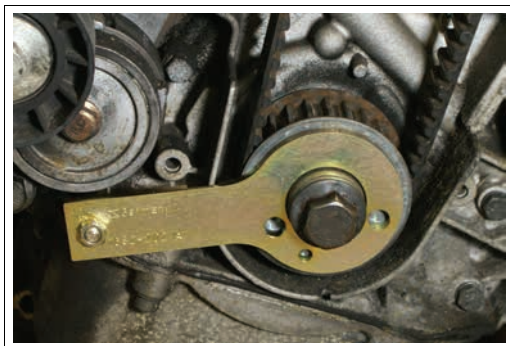
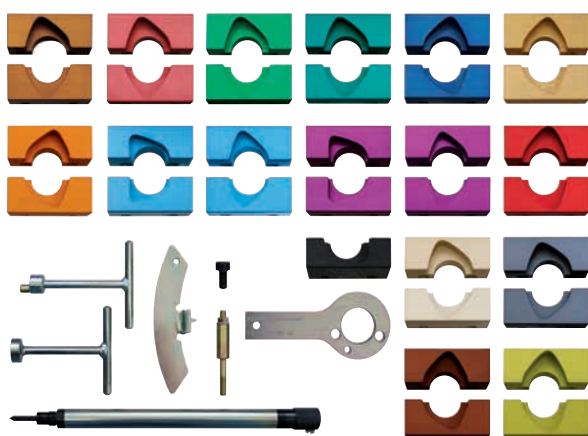
This tool set is used for locking/positioning engine shafts such as camshaft and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-1682-11 KA Locking Tool Set, Fiat 1.4 12V

Part No.	Description	Qty
KL-1682-311 A	Locking Tool for Camshaft	1
KL-1682-112 A	Locking Tool for Crankshaft	1
KL-1682-1190 A	Plastic Storage Case	1





KL-1682-30 KB

Locking Tool Set, Alfa/Fiat/Lancia

Applicable to Alfa Romeo 1.4, 1.6, 1.8, 2.0, 2.5, 3.0 and 3.2 litre, 4- and 6-cylinder petrol engines as found in: 145, 146, 147, 155, 156, 164, 166, GTA, GTV, Spider, Spider GT etc., and Fiat/Lancia 1.4, 1.6, 1.8, 2.0, 2.4-litre, 4- and 5-cylinder petrol engines as found in: Fiat Panda, Punto, Palio, Siena, Bravo, Brava, Stilo, Marea, Multipla, Barchetta, Coupé etc. Lancia Dedra, Delta, Kappa, Lybra etc.

(Engine codes: 161.02, 162.01, 321.02, 321.03, 321.04, 322.01, 322.05, 323.01, 323.10, 324.01, 324.05, 335.03, 341.03, 342.01, 343.01, 361.01, 362.01, 363.01, 372.03, 671.06, 672.04, 676.01, 175A3.000, 178B3.000, 182A1.000, 182A2.000, 182A3.000, 182A4.000, 182A5.000, 182A6.000, 182B3.000, 182B6.000, 182B7.000, 183A1.000, 183A6.000, 185A8.000, 188A4.000, 188A6.000, 192A2.000, 192A4.000, 839A4.000, 839A7.000, 840A2.000, 840A4.000, 841D.000, 841E.000, 932A.000, 932A2.000, 936A.000, 936A6.000, 937A1.000, 939B1.000, 940A1.000, KFT, KfV)

When performing repairs to cylinder heads or engines, or when replacing a timing belt, the **KL-1682-30 KB** will prove to be an indispensable tool set allowing you to determine the TDC position (power stroke) on No. 1 cylinder, lock/position the camshafts and correctly adjust the tensioner pulley.

Scope of Delivery:

KL-1682-30 KB Locking Tool Set Alfa, Fiat, Lancia

Part No.	Description	Applications:
KL-1682-301 A	Locking Tool Set for Camshaft, golden (2-piece set)	Alfa 1.4 and 1.6 4-cylinder 16V TS engines. (Engine code: AR321.01, AR335.03)
KL-1682-302 A	Locking Tool Set for Camshaft, light yellow (2-piece set)	Alfa 1.8 and 2.0 4-cylinder 16V TS engines. (Engine code: AR162.01, AR322.05, AR323.01, AR323.10, AR671.06, AR672.04)
KL-1682-303 A	Locking Tool Set for Camshaft, bronze-coloured (2-piece set)	Alfa 1.6 4-cylinder 16V TS engines. (Engine code: AR321.02, AR321.03, AR321.04, AR372.03, AR676.01)
KL-1682-304 A	Locking Tool Set for Camshaft, red (2-piece set)	Alfa 2.0 4-cylinder 16V JTS engines. (Engine code: 932A2.000, 937A1.000)
KL-1682-305 A	Locking Tool Set for Camshaft, purple (4-piece set)	Alfa 2.5 and 3.0 V6 engines with 24 valves. (Engine code: 161.02, AR324.01, AR343.01, AR361.01, AR362.01, AR342.01)
KL-1682-306 A	Locking Tool Set for Camshaft, light blue (4-piece set)	Alfa 3.2 V6 engines with 24 valves. (Engine code: 932A.000, 936A.000)
KL-1682-307 A	Locking Tool Set for Camshaft, orange (2-piece set)	Alfa 1.6 TS engines. (Engine code: 321.03, 321.04, 372.03)
KL-1682-311 A	Locking Tool for Camshaft, black (1-piece set)	Fiat/Lancia 1.4 4-cylinder 12V engines. (Engine code: 182A3.000)
KL-1682-312 A	Locking Tool Set for Camshaft, white (2-piece set)	Fiat/Lancia 1.8 4-cylinder 16V engines. (Engine code: 183A1.000)
KL-1682-313 A	Locking Tool Set for Camshaft, grey (2-piece set)	Fiat/Lancia 1.8 4-cylinder 16V engines. (Engine code: 182A2.000)
KL-1682-314 A	Locking Tool Set for Camshaft, dark blue (2-piece set)	Fiat/Lancia 1.8 4-cylinder 16V engines. (Engine code: 188A6.000, 192A4.000)
KL-1682-315 A	Locking Tool Set for Camshaft, dark green (2-piece set)	Fiat/Lancia 2.0 5-cylinder 20V engines. (Engine code: 175A3.000, 182A1.000)
KL-1682-316 A	Locking Tool Set for Camshaft, light green (2-piece set)	Fiat/Lancia 2.0 5-cylinder 20V engines. (Engine code: 175A3.000)
KL-1682-317 A	Locking Tool Set for Camshaft, light red (2-piece set)	Fiat/Lancia 2.0 5-cylinder 20V engines.
KL-1682-318 A	Locking Tool Set for Camshaft, brown (2-piece set)	Fiat/Lancia 2.4 5-cylinder 20V engines. (Engine code: 192A2.000)
KL-1681-111	Adaptor M14x1.25 for TDC Positioning	Fiat/Lancia 1.6 and 2.0 4- and 5-cylinder 16V/20V engines. (Engine code: 175A3.000, 182A1.000, 182A2.000, 183A1.000, 192A2.000, 932A2.000, 937A1.000)
KL-1682-131 A	Flywheel Holding Tool	Fiat/Lancia 1.8 4-cylinder 16V engines (Engine code: 182A2.000, 192A4.000) and Alfa 2.0 JTS engines (Engine code: 932A2.000, 937A1.000).
KL-1682-202 A	Locking Tool for Crankshafts	Fiat/Lancia 1.8 4-cylinder 16V engines. (Engine code: 188A6.000, 192A4.000)
KL-1682-213 A	Adjustment Tool for Tensioner Pulley	Alfa 1.6, 1.8 and 2.0 4-cylinder 16V engines (Engine code: AR162.01, AR321.03, AR321.04, AR322.01, AR322.05, AR323.01, AR323.10, AR335.03, AR372.03, AR671.06, AR672.04, AR676.01, 932A2.000, 937A1.000) and for Fiat/Lancia 1.8 4-cylinder 16V engines (Engine code: 182A2.000, 183A1.000, 188A6.000, 192A4.000).
KL-1682-214 A	Adjustment Tool for Tensioner Pulley (Balance Shafts)	Alfa 2.0 4-cylinder 16V engines. (Engine code: AR162.01, AR323.01, AR323.10, AR672.04, 932A2.000, 937A1.000)
KL-1682-3090 A	Plastic Storage Case	

KL-1682-332 K

Locking Tool Set, Alfa

Applicable to Alfa Romeo 1.4, 1.6, 1.8 and 2.0 petrol engines as found in: Alfa 145, 146, 147, 155, 156, 166, GT, GTV, Spider.

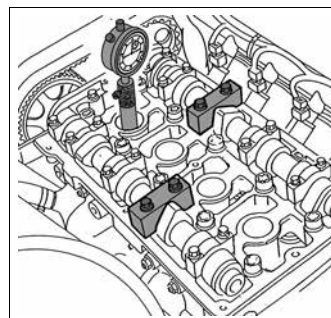
(Engine codes: 162.01, 321.02, 321.03, 321.04, 322.01, 322.05, 323.01, 323.1, 335.03, 341.03, 363.01, 372.03, 671.06, 672.04, 676.01)

Designed for the locking/positioning of camshafts, crankshaft, and timing belt tensioner. The kit also contains a tool to determine the TDC position. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1682-332 K Locking Tool Set, Alfa

Part No.	Description	Qty
KL-1682-301 A	Locking Tool Set (golden) for Camshaft	1
KL-1682-302 A	Locking Tool Set (light yellow) for Camshaft	1
KL-1682-303 A	Locking Tool Set (bronze) for Camshaft	1
KL-1682-307 A	Locking Tool Set (orange) for Camshaft	1
KL-1682-213 A	Adjustment Tool for Tensioner Pulley	1
KL-1682-214 A	Adjustment Tool for Tensioner Pulley	1
KL-1681-111	Adaptor M14x1.25 for TDC Positioning	1
KL-1682-3090 A	Plastic Storage Case	1



KL-1682-751 K

Locking Tool Set, Fiat

Applicable to Alfa Romeo and Fiat 1.4 litre petrol engines as found in: Alfa Giulietta, Mito; Fiat Bravo, Punto.

(Engine codes: 198A7.000, 940A2.000, 955A2.000, 955A6.000, 955A7.000, 955A8.000)

Designed for the locking/positioning of camshaft and crankshaft, as well as for adjusting the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1682-751 K Locking Tool Set, Fiat

Part No.	Description	Qty
KL-1682-7511	Locking Tool for Camshaft	1
KL-1682-103 A	Tensioner Adjustment Tool	1
KL-1682-104 A	Locking Tool for Crankshaft	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



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KL-1682-12 KA

Locking Tool Set, Fiat

Applicable to Fiat, Lancia, Suzuki 1.6 litre petrol engines as found in Fiat Doblo, Mare, Multipla, Palio, Sedici, Stilo; Lancia Lybra; Suzuki Grand Vitara, Liana, Swift, SX4.

(Engine codes: 182B6.000, 192B3.000, M16A, M16A VVT, Z16XEP)

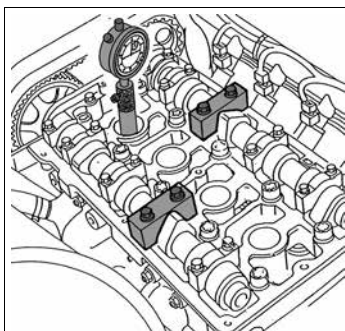
Designed for the locking/positioning of camshafts and crankshaft, as well as for adjusting the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1682-12 KA Locking Tool Set, Fiat

Part No.	Description	Qty
KL-1682-121 A	Tensioner Pulley Adjustment Tool	1
KL-1682-122 A	Flywheel Holding Tool	1
KL-1682-123 A	Setting Gauge for Camshaft	1
KL-4990-2002	Plastic Box	1
KL-4990-1103	Plastic Storage Case	1





KL-1682-331 K Locking Tool Set, Alfa

Applicable to Alfa Romeo, Lancia and Fiat 1.8 and 2.0 litre petrol engines as found in: Fiat Barchetta, Punto, Stilo; Alfa 156, GT, GTV, Spider; Lancia Lybra.
(Engine codes: 183A6.000, 185A8.000, 188A6.000, 192A4.000, 839A4.000, 839A7.000, 932A2.000, 937A1.000)

Designed for the locking/positioning of camshafts, crankshaft, timing belt tensioner and flywheel. Kit also contains a tool to determine the TDC position. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1682-331 K Locking Tool Set, Alfa

Part No.	Description	Qty
KL-1682-131 A	Flywheel Holding Tool	1
KL-1682-202 A	Locking Tool for Crankshaft	1
KL-1682-213 A	Adjustment Tool for Tensioner Pulley	1
KL-1682-214 A	Adjustment Tool for Tensioner Pulley	1
KL-1682-304 A	Locking Tool Set (red) for Camshaft	1
KL-1682-314 A	Locking Tool Set (dark blue) for Camshaft	1
KL-1682-315 A	Locking Tool Set (dark green) for Camshaft	1
KL-1681-111	Adaptor M14x1.25 for TDC Positioning	1
KL-1682-3090	Plastic Storage Case	1

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KL-1682-23 KA Locking Tool Set, Alfa

Applicable to Alfa Romeo 2.5, 3.0 and 3.2 litre petrol engines as found in: Alfa Romeo 147, 156, 166, GT, GTV, Spider.
(Engine codes: 161.02, 161.05, 324.01, 324.05, 342.01, 343.01, 361.01, 362.01, 932A.000, 936A.000, 936A6.000)

Designed for the locking/positioning of camshafts as well as for adjusting the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

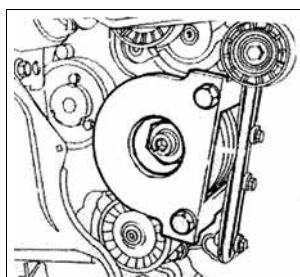
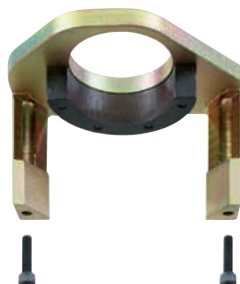
KL-1682-23 KA Locking Tool Set, Alfa

Part No.	Description	Qty
KL-1682-305 A	Locking Tool Set for Camshaft (purple)	1
KL-1682-306 A	Locking Tool Set for Camshaft (light blue)	1
KL-1682-222 A	Tensioning Tool	1
KL-4990-2002	Plastic Storage Box	1
KL-4990-1103	Plastic Storage Case	1

KL-1682-235 Counter-Holding Tool for Crankshaft

Suitable for use on Alfa Romeo 3.2 V6 24V TwinCam petrol engines as found in 147, 156, 166, Spider, GT, GTV.
(Engine codes: 932A.000 and 936A.000)

This tool is designed to counter-hold the crankshaft (crankshaft pulley) while loosening/tightening the crankshaft central screw. It is required when replacing a timing belt and for engine repairs.



KL-0680-220 B

Set of Locking Pins,

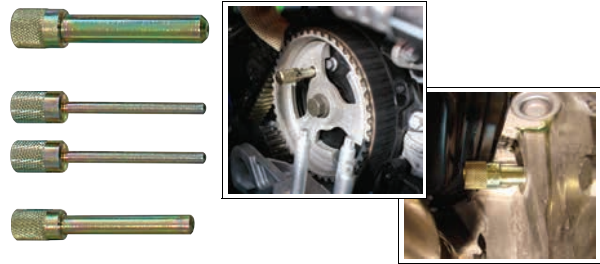
Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDiS; Toyota 1.0 VVT, 1.4 Di, 1.4 HDi; Volvo 1.6 D Diesel engines.

These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery: KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1



(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTEd, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

KL-1381-30

Tensioner Tool with Retaining Pin

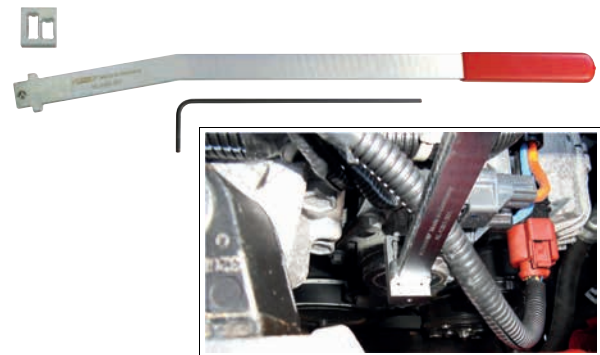
Applicable to PSA (Citroën, Peugeot), Fiat and Ford, 1.4 and 1.6 litre Diesel engines as found in: Citroën Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4 II, C4 Picasso/Grand Picasso, C5 III, DS3, Berlingo III, DS4, DS3, DS4, Xsara II, Xsara Picasso and Peugeot Partner III, 206, 207, 207 CC, 308, 308 CC, 508, 3008, 5008. (Engine codes: DV4, DV6)

Facilitates the tensioning and locking of V-ribbed belt tensioners.

This tool allows for the removal/installation of the V-ribbed belt in situ on the vehicle even in very limited space conditions.

Scope of Delivery: KL-1381-30 Tensioner Tool with Retaining Pin

Part No.	Description	Qty
KL-1381-3021	Retaining Pin (angled), Ø 4.2mm	1
KL-1383-301	Tension Lever with Base Body	1



Technical Data:

Length of tension lever:	465mm
Ø of retaining pin:	4.2mm

KL-0182-17 A

Flywheel Locking Pin

Suitable for use on Citroën, Peugeot (TUD5) Diesel engines as found in Citroën AX, Saxo, Xsara; Peugeot 106; Nissan Micra and Rover 115.

Tool for locking the flywheel.



KL-0282-35 B

Reaction Wrench Set

(470mm long, adjustable)

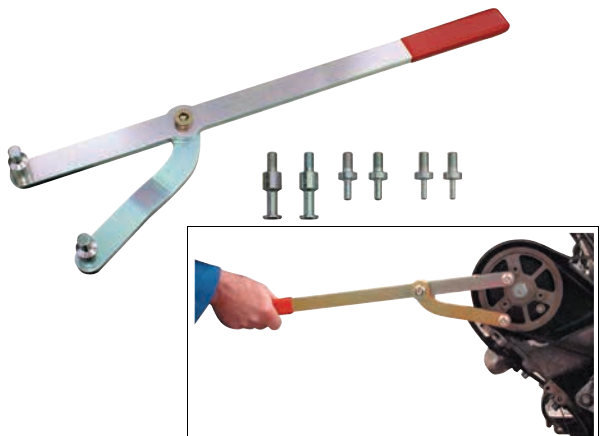
Universally suitable for use on perforated timing belt sprockets with a hole Ø not smaller than 6.5mm as found in: VW-Audi, Seat, Škoda, Alfa, Fiat, Lancia, Dacia, MG, Nissan, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Suzuki, Isuzu, Japanese vehicles, etc.

Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating, for example, when loosening/tightening the central fastening bolt.

Thanks to the different interchangeable pins and the adjustable lever allowing for variable adjustments to hole diameters and pitches, this tool is nearly universally applicable.

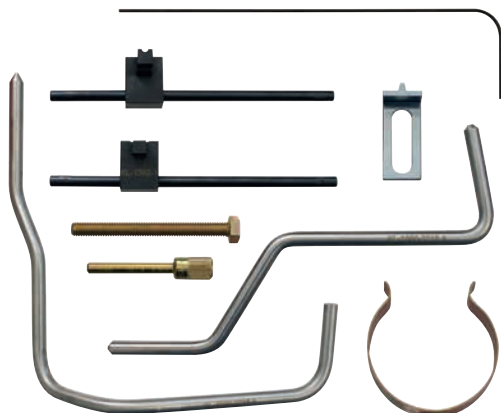
Scope of Delivery: KL-0282-35 B Reaction Wrench Set (470mm long, adjustable)

Part No.	Description	Qty
KL-0282-35	Reaction Wrench (adjustable)	1
KL-0282-311	Set of Pins, Ø 18mm	1
KL-0282-312	Set of Pins, Ø 7.5mm	1
KL-0282-313	Set of Pins, Ø 6mm	1



Technical Data:

Pitch between pins:	from 14-130mm
Pin Ø:	6mm, 7.5mm, 12mm, 18mm
Pin height:	25mm/42mm
Overall tool length:	470mm



KL-1380-27 B

Locking Tool Set, PSA

Applicable to PSA (Citroën, Peugeot) 1.9 litre Diesel engines as found in: Peugeot 206, Partner, Expert; Citroën Berlingo, C15, Dispatch, Jumpy, Xsara; Fiat Scudo. (Engine codes: DW8, DW8/L/W3, DW8/L3, DW8B, DW8B/L4, WJY, WJZ)

A very useful tool set designed for the locking/positioning of engine shafts such as camshaft, crankshaft, injection pump shaft, as well as for adjusting the timing belt tensioner when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-27 B Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-2602 A	Locking Tool for Crankshaft	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner	1
KL-1382-2	Adjustment Tool for Timing Belt Tensioner	1
KL-1380-2215 A	Locking Pin (angled)	1
KL-1380-2216 A	Locking Pin (angled)	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-1380-232 A	Hex Screw, M8x80mm	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2211 A	Locking Pin, Ø 6mm	1



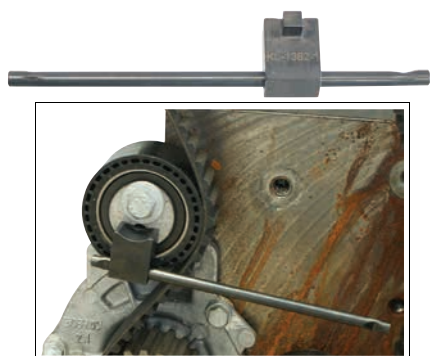
KL-1380-234 A

Puller for Crankshaft Pulley

Applicable to Citroën, Peugeot, Suzuki, Nissan and Subaru vehicles fitted with 1.0, 1.2, 1.3, 1.5, 1.6, 1.9, 2.0, 2.2, 2.4, 2.5 or 2.7 litre engines such as Citroën Berlingo, C4, C5, C8, Dispatch, Jumper, Jumpy, Relay, Xsara; Peugeot 206, 307, 406, 407, 607, 807, Boxer, Expert, Partner; Suzuki Alto, Grand Vitara, Ignis, Jimny, Kizashi, Liana, Splash, Swift, SX4, Wagon R+; Nissan Pixo; Subaru Justy G3X.

For example, included in tool set **KL-1380-26 KC**.

(Engine codes: 4HW, 4HY, DW8B/L4, DW10ATED, DW10ATED4, DW10ATED4/L4, DW10BTED, DW10BTED4, DW10BTED/L3, DW10CTED4, DW10JATED4, DW10TD, DW10UTD, DW10UTED4, DW12ATED4/L4, DW12UTED, H25A, H27A, J20A, J24B, K10B, K12B, M13A, M13A VVT, M15A, M15A VVT, M16A, M16A VVT, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHZ, WJY)



KL-1382-1

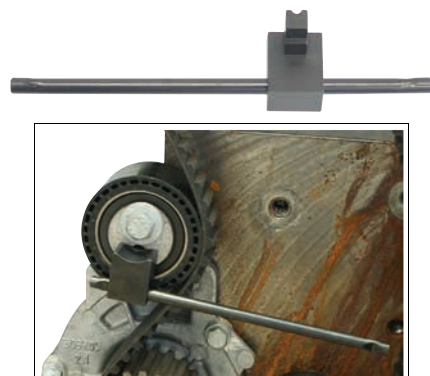
Adjustment Tool for Timing Belt Tensioner, Peugeot/Toyota

Suitable for use on Peugeot and Toyota engines: 1.9 HDI, DW8; 2.0 HDI, DW10; 2.2 HDI, DW12. (Engine codes: 4HW, 4HX, 4HY, 4HZ, RHM, RHS, RHT, RHV, RHW, RHX, RHY, RHZ, WJY)

Designed to tension the timing belt.

Technical Data:

Square:	7mm
Length:	157mm



KL-1382-2

Adjustment Tool for Timing Belt Tensioner, Peugeot

Suitable for use on Peugeot 206 Diesel engines 1.9 HDI, DW8 etc. as found in Citroën Berlingo, C15, Dispatch, Jumpy, Xsara; Peugeot 206, Expert, Partner. (Engines codes: WJY, WJZ)

Designed to tension the timing belt.

Technical Data:

Square:	8mm
Length:	157mm

KL-1380-26 KC

Locking Tool Set, PSA 1.4, 1.6, 2.0, 2.2 HDI

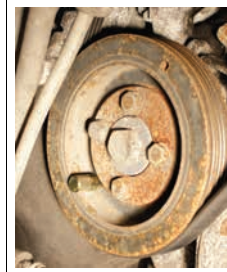
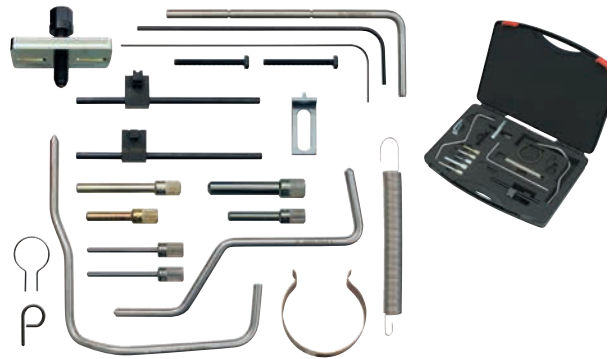
Applicable to PSA Citroën / Peugeot, Lancia, Ford, Volvo and Fiat 1.4, 1.6, 2.0 and 2.2 HDI Diesel engines, as found in: Peugeot Boxer II, Expert I/II, Expert III, Partner/ Partner Origin/Ranch I/II, RCZ, Boxer II, 206+, Bipper, Partner III, Expert III, Partner III, Partner/Partner Origin/Ranch I/II, 107, 206, 206 CC, 207, 207 CC, 307, 307 CC, 308, 308 CC, 406, 406 Coupe, 407, 508, 607, 807, 1007, 3008, 4007, 5008; Citroën Berlingo III, Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4, C4 II, C4 Picasso/Grand Picasso, C5, C5 II, C5 III, C6, C8, C-Crosser, Dispatch/Jumpy III, DS3, DS4, Nemo, Relay/Jumper II, Xsara II, Xsara Picasso; Fiat Ducato, Scudo, Ulysse; Lancia Phedra; Ford Scudo, C-MAX, Fiesta, Focus, Focus C-MAX, Fusion, Grand C-MAX, Mondeo; Mazda 2, 3, 5 and Volvo C30, S40, S60, S80, V50, V70.

For locking/positioning the camshaft, crankshaft, injection pump shaft and flywheel. The kit also contains tools for adjusting the timing belt tensioner and for holding the belt in position.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-26 KC Locking Tool Set, PSA 1.4, 1.6, 2.0, 2.2 HDI

Part No.	Description	Qty
KL-1380-2215 A	Locking Pin (angled)	1
KL-1380-2216 A	Locking Pin (angled)	1
KL-1380-2219 A	Locking Pin, Ø 7.9mm	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-1380-233 A	Locking Pin (angled), Ø 7.7mm	1
KL-1380-234 A	Puller for Crankshaft Pulley	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2601 A	Centring Tool for Crankshaft Sprocket	1
KL-1380-2602 A	Locking Tool for Crankshaft, Ø 2mm	1
KL-1380-2603	Locking Pin (angled), Ø 4mm	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner	1
KL-1382-2	Adjustment Tool for Timing Belt Tensioner	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 8mm	1
KL-1380-2690 A	Plastic Storage Case	1



(Engine codes: 4HK, 4HL, 4HN, 4HP, 4HR, 4HS, 4HT, 4HW, 4HX, 4HY, 4HZ, 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, AHY, AHZ, D4162T, D4162T DRIVE, D4164T, D4164T DRIVE, DV4C, DV4TD, DV4TED, DV4TED4, DV6ATED4, DV6AUTES4, DV6BTED4, DV6BUTES4, DV6C, DV6D, DV6DTE4, DV6DU, DV6ETED, DV6ETED4, DV6ETED4B, DV6ETED4BU, DV6UC, DV6UTED4, DW10ATED, DW10ATED/L3, DW10ATED4, DW10ATED4/L4, DW10ATED4/L44H, DW10BTED, DW10BTED/L3, DW10BTED4, DW10C, DW10CTED4, DW10CTED4, DW10JATED4, DW10UTD, DW10UTED4, DW12ATED, DW12ATED4/L4, DW12BTED4, DW12CTED4, DW12MTED4, DW12TED4, DW12TED4/L4, DW12UTED, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 Y6, H02, RHC, RHD, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHZ, T1BA/B/C, TZJA, Y6)

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KL-1380-26 KB

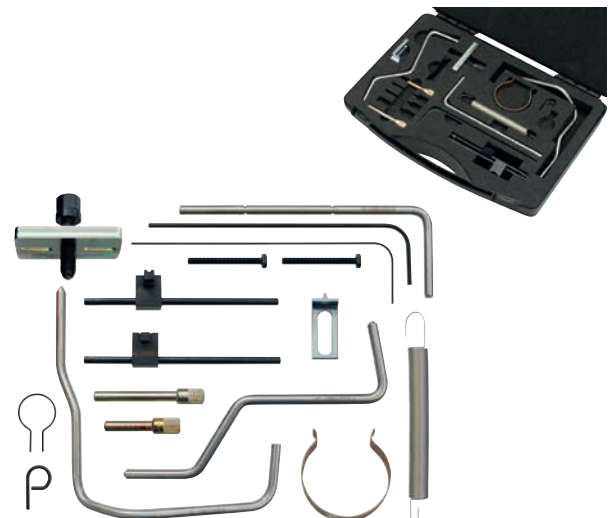
Locking Tool Set, PSA

Suitable for the PSA (Citroën, Peugeot) and Fiat 2.0 and 2.2 Diesel engines as found in: Peugeot 206, 307, 308, 3008, 406, 407, 4007, 508, 5008, 607, 807, Boxer II, Expert, Partner, RCZ; Citroën Berlingo, C4, C5, C6, C8, C-Crosser, Dispatch, DS4, Jumper, Jumpy, Relay, Xsara; Fiat Ducato, Scudo, Ulysse; Lancia Phedra.

Very useful tool set for locking/positioning engine shafts such as camshaft, crankshaft, injection pump shaft, as well as for adjusting the timing belt tensioner when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-26 KB Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-2219 A	Locking Pin, Ø 7.9mm	1
KL-1380-2215 A	Locking Pin (angled)	1
KL-1380-2216 A	Locking Pin (angled)	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-1380-233 A	Locking Pin (angled), Ø 7.7mm	1
KL-1380-234 A	Puller for Crankshaft Pulley	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2601 A	Centring Tool for Crankshaft Sprocket	1
KL-1380-2602 A	Locking Tool for Crankshaft	1
KL-1380-2603	Locking Pin (angled), Ø 4mm	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner	1
KL-1382-2	Adjustment Tool for Timing Belt Tensioner	1
KL-1380-2690 A	Plastic Storage Case	1



(Engine codes: 4HK, 4HL, 4HN, 4HP, 4HR, 4HS, 4HT, 4HW, 4HX, 4HY, 4HZ, AHY, AHZ, DW10ATED, DW10ATED4, DW10ATED4/L4, DW10BTED, DW10BTED4, DW10BTED4/L3, DW10C, DW10CTED4, DW10JATED4, DW10TD, DW10UTD, DW10UTED4, DW12ATED, DW12ATED4/L4, DW12BTED4, DW12CTED4, DW12MTED4, DW12UTED, DW12TED4, DW12TED4/L4, RH02, RHC, RHD, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHZ)



(Engine codes: 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, 8140.63, F1AE0481A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481D/SOFIM, F1CE0481F, F1CE0481H, F1CE3481D, F1CE3481D/SOFIM, F1CE3481DM, F1CE3481DM/SOFIM, F1CE3481E, F1CE3481E/SOFIM, F1CE3481M, F1CE3481N, F1CE 3481N/SOFIM, F30DTE)

KL-1682-26 KA

Locking Tool Set, 2.3, 2.8 and 3.0 JTD

Applicable to Fiat, Citroën, Peugeot and Iveco 2.3, 2.8 and 3.0 litre Diesel engines as found in: Fiat Ducato; Peugeot Boxer; Citroën Relay, Jumper; Iveco Daily.

Designed for the locking/positioning of the injection pump shaft, camshafts and crankshaft. The kit also includes tools to lock the timing belt tensioner and to fix the timing belt during installation.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1682-26 KA Locking Tool Set, 2.3, 2.8 and 3.0 JTD

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1682-2601	Locking Tool for Flywheel	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1682-2401	Spacer Sleeve for Timing Belt	1
KL-1682-410 A	Locking Tool for Camshaft	1
KL-1682-411 A	Locking Tool for Crankshaft	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1682-2690	Plastic Storage Case	1



(Engine codes: 8140.43, 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, 8140.63, S8U, S8U 770, S8U 772, S9W, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702)

KL-1682-24 KB

Locking Tool Set

Applicable to Fiat, Opel/Vauxhall, Citroën, Peugeot, Iveco and Renault 2.5 and 2.8 litre Diesel engines as found in: Fiat Ducato; Opel/Vauxhall Movano; Renault Master, Mascott; Peugeot Boxer II, Citroën Relay, Jumper; Iveco Daily.

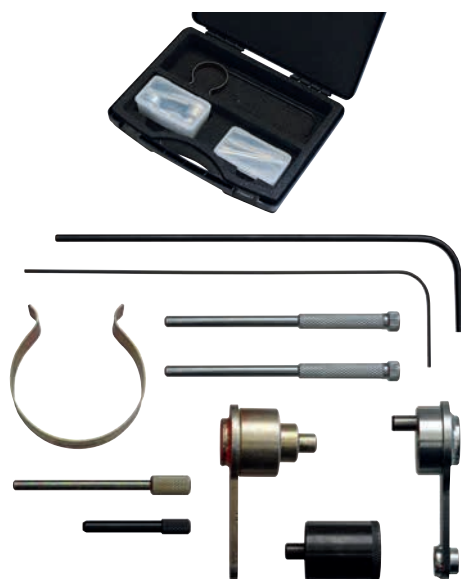
Designed for the locking/positioning of the crankshaft, injection pump shaft and flywheel. The kit also contains a tool to lock the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1682-24 KB Locking Tool Set

Part No.	Description	Qty
KL-1682-2601	Locking Tool for Flywheel	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1682-2401	Spacer Sleeve for Timing Belt	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1
KL-1280-204 A	Locking Pin, Ø 4.9/3.9mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-1682-2490	Plastic Storage Case	1

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(Engine codes: D20CTED4, DT17BTED4, DT17TED4, 276D, 276DT, TDV6, UHZ, X8Z)

KL-1380-29 KB

Locking Tool Set, PSA 2.7 and 3.0 HDI

Applicable to PSA (Peugeot, Citroën 2.7 and 3.0, Land Rover, Range Rover and Jaguar 2.7 V6 TwinCam (DOHC) Diesel engines as found in: Land Rover Discovery 3, Range Rover Sport; Jaguar S-Type, XJ Series; Peugeot 407, 607; Citroën C5, C6.

Designed for the locking/positioning of camshafts, crankshaft and coolant pump. The kit also contains a tool for retaining the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-29 KB Locking Tool Set, PSA 2.7 and 3.0 HDI

Part No.	Description	Qty
KL-1380-2901 B	Locking Pin for Camshafts	1
KL-1380-2902 B	Locking Pin for Camshafts	1
KL-1380-2903 B	Locking Pin for Coolant Pump	1
KL-1380-2904 B	Locking Tool for Flywheel	1
KL-1380-2905 B	Locking Tool for Flywheel	1
KL-1380-2906 B	Locking Tool for Flywheel	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2602 A	Locking Tool for Crankshaft	1
KL-1380-2603	Locking Pin (angled), Ø 4mm	1
KL-4999-2001	Plastic Storage Box, 53x107x18mm	1
KL-4999-2002	Plastic Storage Box, 53x107x40mm	1
KL-4999-1103	Plastic Storage Case	1

KL-1380-101 KA

Locking Tool Set, PSA, Renault

Universally applicable to the following 1.0, 1.1, 1.2, 1.4, 1.6, 1.7, 1.8, 1.9, 2.0, 2.2, 2.5 litre petrol engines as well as 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.5, 2.1, 2.2, 2.5, 2.8 D/TD/TDI Diesel engines from Citroën, Peugeot, Renault, Dacia, Fiat, FSO, LDV, Nissan, Mitsubishi, Opel/Vauxhall, Rover, Lancia. For example, fitted to: Peugeot Boxer I, 106, 205, 206, 207, 306, 307, 308, 309, 405, 605, 806, 1007, 206+, Bibber, Expert, J5, Partner; Citroën AX, Berlingo, BX, C15, C2, C3, Evasion, Jumper / Relay, Nemo, Saxo, Xantia, XM, Xsara, ZX; Renault 5, 19, 21, 25, Clio, Clio II, Espace, Espace II, Espace III / Grand Espace, Express / Rapid, Kangoo, Laguna, Laguna II, Master, Master II, Megane, Megane Scenic, Safrane, Scenic II, Senic, Trafic, Trafic II, Twingo; Dacia Dokker, Lodgy, Logan, Logan MCV, Sandero, Solenza; Fiat Ulysse, Ducato, Scudo; Suzuki Samurai, Grand Vitara, Vitara; Mitsubishi Carisma, Space Star; Opel/Vauxhall Vivaro, Movano; Nissan Kubistar, Primera; Rover 100 / Metro; Lancia Zeta; LDV Pilot.

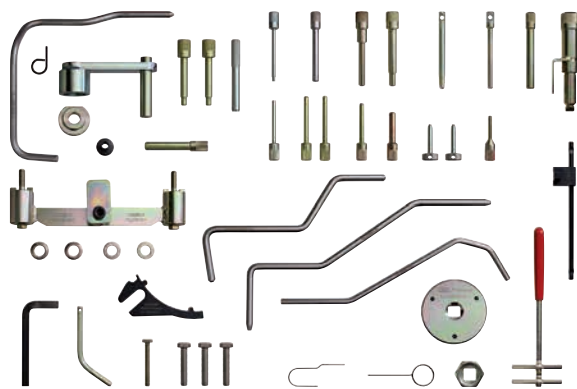
For locking the camshaft, crankshaft and injection pump shaft, as well as for positioning the timing belt tensioner.

An indispensable tool set when replacing a timing belt or during an engine repair.



Scope of Delivery: KL-1380-101 KA Locking Tool Set, PSA, Renault

Part No.	Description	Qty
KL-0129-2105 A	Adaptor, M10x1 to M8x1	1
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-202 A	Locking Pin, Ø 6.9mm	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1
KL-1280-204 A	Locking Pin, Ø 4.9/3.9mm	1
KL-1280-205 A	Hex Screw, M6x45mm	1
KL-1280-206 A	Adjustment Tool for Belt Tensioner, with 2 Pins	1
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1380-1011 A	Timing Belt Pre-Tensioning Tool	1
KL-1380-11	Locking Pin B, Ø 9.5mm	1
KL-1380-2211 A	Locking Pin, Ø 6mm	1
KL-1380-2212 A	Locking Pin, Ø 5.9mm	2
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1380-2215 A	Locking Pin for Flywheel, Ø 7.7mm, angled	1
KL-1380-2216 A	Locking Pin for Flywheel, Ø 7.9mm, angled	1
KL-1380-2217 A	Locking Pin, Ø 10mm	1
KL-1380-2218 A	Locking Pin, Ø 8.4/6.5 mm	2
KL-1380-2219 A	Locking Pin, Ø 7.9mm	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2223 A	Locking Pin, Ø 10/8mm	1
KL-1380-2226 A	Retaining Pin for Tensioner Pulley, Ø 1.5mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley, Ø 3.0mm	1
KL-1380-2230 A	Adjustment Tool for Timing Belt Tensioner, 8mm, square	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner, Peugeot/Toyota	1
KL-1480-10	Locking Pin, Ø 6.8mm, angled	1
KL-1480-11	Locking Pin, Ø 6mm, angled	1
KL-1480-12	Locking Pin, Ø 6mm, short	2
KL-1480-13	Locking Pin, M8/Ø 6.7mm	1
KL-1480-15	Locking Pin, Ø 7.8mm, angled	1
KL-1480-18	Hex Screw, M8x40mm	3
KL-1380-1090 A	Plastic Storage Case	1



(Engine codes: D7F, DJ5, DJ5T, DJ5TED, DKATE, E5F, E6J, E7F, E7J, F1N, F2N, F2R, F3N, F3P, F3R, F7P, F7R, F8M, F8Q, F9Q, G8T, J5T, J6R, J7R, J7T, J8S, K7M, N7Q, N7U, S8U, S9U, S9W, TU1, TU3, TU5J4, TU5JP, TU9, TUD3, TUD5, XU10J2, XU10J4, XU5, XU7, XU7JP4, XU9, XU9J4, XUD11, XUD7, XUD9)

KL-1380-231 A

Locking Tool for Flywheel, Citroën/Peugeot

Applicable to Citroën/Peugeot Diesel and petrol engines; as well as for Porsche 911 (991). 1.9 DW8; 2.0 HDI, DW10; 2.2 HDI DW12; Volvo 2.0 D4204T.

Designed to lock the flywheel.



(Engine codes: 4HK, 4HL, 4HN, 4HP, 4HR, 4HS, 4HT, 4HW, 4HX, 4HY, 4HZ, AHY, AHZ, D4204T, DW10ATED, DW10ATED4, DW10ATED/L3, DW10ATED4/L4, DW10BTED, DW10BTED/L3, DW10BTED4, DW10C, DW10CTED4, DW10JATED4, DW10UTED4, DW10UTD, DW10TD, DW12ATED, DW12ATED4/L4, DW12BTED4, DW12CTED4, DW12TED4, DW12UTED, DW8, DW8/L/W3, DW8/L3, DW8B, DW8B/L4, DW8B/L4, LFY, RFS, RFV, RHC, RHD, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHZ, WJY, WJZ, XU10J4R/L3, XU10J4RS/L3, XU7JP4/L3)



KL-1380-22 KA

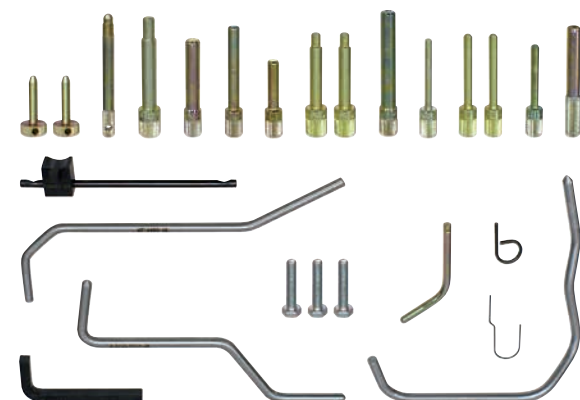
Locking Tool Set, Citroën/Peugeot

Applicable to PSA (Citroën, Peugeot), Fiat, Nissan, Rover and TATA 1.4, 1.5, 1.7, 1.8, 1.9, 2.1, 2.2 and 2.5 litre Diesel engines as well as for the 1.0, 1.1, 1.4, 1.6, 1.8, 1.9 and 2.0 litre PSA petrol engines as installed in Citroën AX, Berlingo, BX, C15, Dispatch, Evasion, Jumper, Jumpy, Relay, Saxo, Synergie, Visa, Xanita, XM, Xsara, ZX; Peugeot 106, 205, 206, 305, 306, 307, 309, 405, 406, 605, 806, Boxer, Expert, Partner, Talbot Express; Fiat Ducato, Scudo, Ulysse; FSO Caro; LDV 200, Pilot; Nissan Micra; Rover Metro; TATA Loadbeta etc.

This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft, injection pump shaft, balancer shaft as well as of the timing belt tensioner. It also includes a tool to adjust the timing belt tensioner. Indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-22 KA Locking Tool Set, Citroën/ Peugeot

Part No.	Description	Qty
KL-1380-11	Locking Pin for Injection Pump, Ø 9.5mm	1
KL-1380-2211 A	Locking Pin for Injection Pump, Ø 6.0mm	1
KL-1380-2212 A	Locking Pin for Balancer Shaft, Ø 5.9mm	2
KL-1380-2213 A	Locking Pin for Injection Pump, Ø 4.9mm	1
KL-1480-13	Locking Pin for camshaft, M8, Ø 6.7mm	1
KL-1380-2215 A	Locking Pin for flywheel (angled), Ø 7.7mm	1
KL-1380-2216 A	Locking Pin for Flywheel (angled), Ø 7.9mm	1
KL-1380-2217 A	Locking Pin for Crankshaft/Camshaft, Ø 10mm	1
KL-1380-2218 A	Locking Pin for Camshaft, Ø 8.4/6.5mm	2
KL-1380-2219 A	Locking Pin for Camshaft, Ø 7.9mm	2
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1480-12	Locking Pin for Camshaft, Ø 6.0mm	2
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2223 A	Locking Pin for Crankshaft, Ø 10/8mm	1
KL-1480-11	Locking Pin for Flywheel (angled), Ø 6.0mm	1
KL-1480-18	Hex Screw, M8x40mm	3
KL-1380-2226 A	Retaining Pin for Tensioner Pulley, Ø 1.5mm	1
KL-1480-10	Locking Pin for Auxiliary Belt (angled), Ø 6.8mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley, Ø 3.0mm	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner, 7mm, square	1
KL-1380-2230 A	Adjustment Tool for Timing Belt Tensioner, 8mm, square	1
KL-1380-2290 A	Plastic Storage Case	1



(Engine codes Diesel: DJ5, DKATE, TUD, VJZ, XUD; Petrol: LFW, RGX, RFU, RFW, TU, XU)

6



KL-1380-751 K

Locking Tool Set, PSA

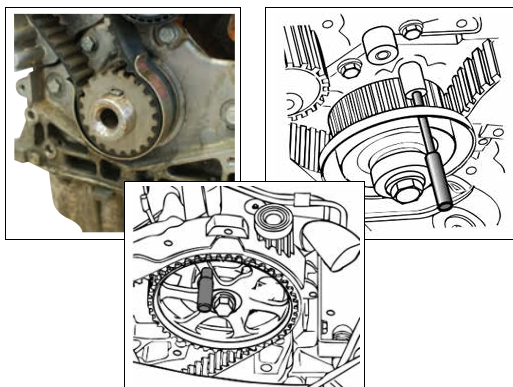
Applicable to PSA (Citroën, Peugeot) and Fiat 1.0, 1.1, 1.4 and 1.6 litre petrol engines as found in: Peugeot 106, 1007, 206, 207, 306, 307, 308, Bipper, Partner; Citroën Berlingo, C2, C3, C4, Nemo, Saxo, Xsara; Fiat Fiorino, Qubo.

Designed for the locking/positioning of camshafts, crankshaft, timing belt- and auxiliary drive belt (V-ribbed belt) tensioners, and flywheel. The kit also includes a tool for retaining the timing belt on the crankshaft sprocket.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-751 K Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-2603	Locking Pin (angled), Ø 4mm	1
KL-1380-2481	Locking Pin (angled), Ø 4.9mm	1
KL-0180-3030	Locking Pin, Ø 3mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	1
KL-1380-2217 A	Locking Pin, Ø 10mm	1
KL-1380-2219 A	Locking Pin, Ø 7.9mm	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley	1
KL-1380-2230 A	Adjustment Tool for Timing Belt Tensioner, 8mm	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2801 A	Locking Pin (angled)	1
KL-1381-3021	Locking Pin (angled), Ø 4.2mm	1
KL-1480-11	Locking Pin (angled), Ø 6mm	1
KL-1480-12	Locking Pin (short), Ø 6mm	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



(Engine codes: CDY, CDZ, HDZ, HFV, HFX, HFY, HFZ, KFR, KFS, KFT, KFU, KFV, NFT, NFW, NFX, NFZ, ET3J4, ET3JP4, TU1A, TU1JP, TU1JP/L4, TU1M+, TU3A, TU3JP, TU3JP/L4, TU3JP/IFL4, TU5J2, TU5J4, TU5J4/L3, TU5J4/L4, TU5JP, TU5JP/L3, TU5JP/L4, TU5JP4, TU5JP4B, TU5JP4S, TU5JP4/L3, TU5JP4/L4, TU9M, TU9M/L, TU9M/L3)

KL-0580-83 KA

Locking Tool Set, BMW 1.4 and 1.6 16V

Applicable to Mini 1.4 and 1.6 litre engines (engine codes: N12, N14, N16) and PSA engines (engine codes: EP3, EP3C, EP6, EP6C, EP6CDT, EP6DT, EP6DTE, EP6DTS) as installed in Mini Cooper (R55, R56), Mini Cooper S (R55, R56), Mini One (R56), Citroën C4, C4 Picasso and Peugeot 207, 308.

Designed to be used for locking/positioning camshafts and crankshaft as well as for adjusting the VANOS adjustment units. Kit also includes a tool to pre-tension the timing chain tensioner. An indispensable tool set when replacing a timing chain, removing and installing VANOS adjustment units or performing engine repairs.

Scope of Delivery:

KL-0580-83 KA Locking Tool Set, BMW 1.4 and 1.6 16V

Part No.	Description	Qty
KL-0580-831 A	Locking Pin for Flywheel	1
KL-0580-832 A	Locking Tool for Camshaft	1
KL-0580-833 A	Locking Tool for Camshaft	1
KL-0580-834 A	Locking Tool for Camshaft	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8390 A	Plastic Storage Case	1



KL-1380-753 K

Locking Tool Set, PSA

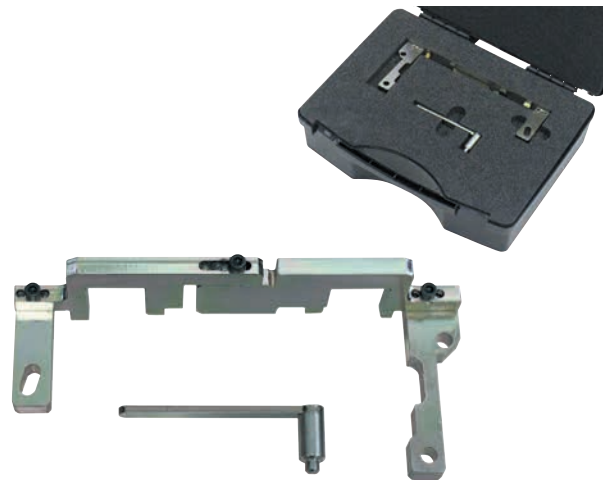
Applicable to Citroën, Peugeot 1.0 and 1.2 litre (3-cylinder) petrol engines as found in Citroën C1 II, C3 III, C4 Cactus, C4II, DS4, DS3, C-Elysee and Peugeot 108, 208, 301, 308, 308 II, 2008. (Engine codes: EB0 [ZMZ], EB2, EB2 [HMT], EB2 [HMW], EB2 [HMZ], EB2D [HMT], EB2DT, EB2DT [HNZ], EB2DTS [HNY], EB2F [HMZ], EBF2 [HMZ])

Designed for the locking of camshafts and crankshaft. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1380-753 K Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-7531	Locking Plate for Camshaft	1
KL-1380-7532	Locking Pin, Ø 14/7.7mm	1
KL-1380-7539	Plastic Storage Case	1



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KL-1380-28 A

Locking Tool Set, Peugeot/Citroën 1.4 16V

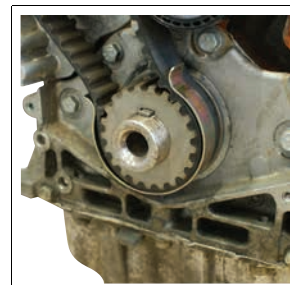
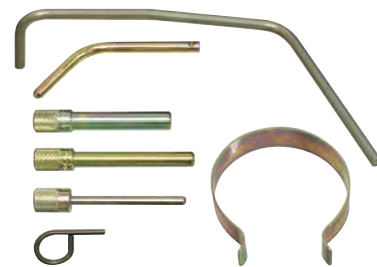
Applicable to Citroën and Peugeot 1.4 16V TwinCam petrol engines as found in Citroën C2, C3/Pluriel, C4; Peugeot 206, 207, 307, 1007 and Berlingo. (Engine codes: KFU, KFU, KFW)

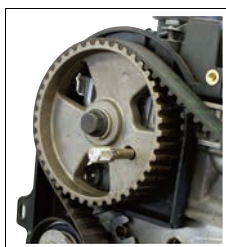
This tool set is designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner while replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-1380-28 A Locking Tool Set, Peugeot/Citroën 1.4 16V

Part No.	Description	Qty
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2801 A	Locking Pin (angled), Ø 6mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley, Ø 3mm	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	1
KL-1480-11	Locking Pin (angled), Ø 6mm	1





(Engine codes: 3FY, 3FZ, 6FY, 6FZ, EW10A, EW10ABE4, EW10D, EW10J4, EW10J4/L4/5, EW10J4/L5, EW10J4S, EW12J4, EW12J4/L5, EW7A, EW7J4, RFH, RFJ, RFK, RFN, RFR, RLZ)

KL-1380-24 KC

Locking Tool Set, PSA 1.8, 2.0 and 2.2

Applicable to PSA (Citroën, Peugeot), Fiat, Lancia 1.8, 2.0 and 2.2 litre petrol engines as found in: Peugeot 206/CC, 307/CC, 406, 407, 607, 807, Expert I/II/III; Citroën C4, C5, C8, Dispatch, Jumpy, Xsara Picasso/II; Fiat Ulysse; Lancia Phedra.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft, and for adjusting the timing belt tensioner when replacing the timing belt or during an engine repair.

Scope of Delivery: KL-1380-24 KC Locking Tool Set, PSA, 1.8, 2.0 and 2.2

Part No.	Description	Qty
KL-1380-2481	Locking Pin (angled), Ø 4.9mm	1
KL-1380-2482	Adaptor, Ø 9.5mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 8mm	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-242 A	Locking Pin Set for Camshaft	1
KL-1380-243 A	Locking Tool for Camshaft	1
KL-1380-244 A	Locking Pin for Crankshaft	1
KL-1380-245 A	Locking Pin for Flywheel, Ø 28.5/8mm	1
KL-1380-246 A	Adjustment Pin for Belt Tensioner Pulley	1
KL-1380-2471 A	Locking Pin for Crankshaft	1
KL-1380-2472 A	Adjustment Tool for Tensioner Pulley	1
KL-1380-2473 A	Counter-Holding Tool for Tensioner Pulley	1
KL-1380-2490 B	Plastic Storage Case with Insert	1

KL-1380-752 K

Locking Tool Set, PSA

Applicable to PSA (Citroën, Peugeot) and Fiat 1.8 and 2.0 litre petrol engines as found in: Peugeot 306, Boxer II; Citroën Relay, Jumper; Fiat Ducato.

Designed for the locking/positioning of camshafts, crankshaft, timing belt tensioner, and flywheel. The kit also contains a tool to retain the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-752 K Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-2218 A	Locking Pin, Ø 8.4/6.5mm	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1480-12	Locking Pin (short), Ø 6mm	1
KL-1480-15	Locking Pin (angled)	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1

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(Engine codes: LFY, LFZ, RFL, RFV, XU7JP/L3, XU7JP4/L3, XU10J2U, XU10J4R/L3)

KL-0680-701 K

Locking Tool Set, Ford, Fiat, PSA 2.2

Applicable to Ford, Fiat, Citroën and Peugeot 2.2 litre Common Rail Diesel engines. For example, fitted to: Ford Transit, Fiat Ducato, Citroën Relay/Jumper III and Peugeot Boxer III.

For locking the crankshaft and camshaft, as well as for aligning the engine front cover when installing it. The set also includes the necessary tool to remove/install crankshaft seal rings. An indispensable tool set when replacing timing chains or performing engine repairs.

Scope of Delivery: KL-0680-701 K Locking Tool Set, Ford, Fiat, PSA 2.2

Part No.	Description	Qty
KL-0680-7011	Locking Tool, Crankshaft	1
KL-0680-7012	Cap for Crankshaft	1
KL-0680-7013	Turning Tool for Injection Pump	1
KL-0680-2102 A	Locking Pin, Ø 14/10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1007	Plastic Storage Case	1



(Engine codes: 4HU (P22DTE), 4HV (P22DTE), CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

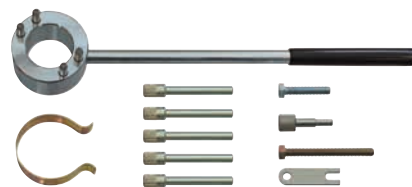
KL-1380-25 A

Locking Tool Set, PSA

Applicable to PSA (Citroën, Peugeot), Lancia and Renault 3.0 litre petrol engines as found in: Peugeot 406, 407, 607; Renault Avantage, Laguna II; Citroën C5, C6, C8; Lancia Phedra.

(Engine codes: ES9A, ES9J4S, ES9J4S/L5, L7X, L7X 731, L7X 733, XFU, Xfv, XFW, XFX)

Designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner. The kit also includes tools to counter-hold the camshafts and to retain the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.



Scope of Delivery: KL-1380-25 A Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-251 A	Locking Pin Set	1
KL-1380-252 A	Camshaft Timing Check Pin, Ø 7.9/5.9mm	1
KL-1380-253 A	Holding Tool for Camshaft Sprocket (exhaust)	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1480-18	Hex Screw, M8x40	1
KL-1380-232 A	Hex Screw, M8x80	1
KL-1380-257 A	Tensioner Tool	1
KL-4990-2003	Plastic Storage Box	1

KL-1280-701

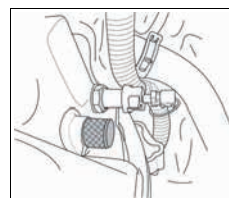
Locking Tool Set, Renault

Applicable to Dacia, Nissan, Opel/Vauxhall, Renault, Suzuki and Mercedes 1.5 and 2.8 litre Diesel engines as fitted to: Renault Clio II / III, Fluence, Kangoo I / II, Laguna III, Logan, Mascott, Master II / Propulsion / RWD, Megane II / III, Modus I / II, Scenic I / II, Twingo II; Opel/Vauxhall Movano-A; Dacia Duster, Logan / MCV / Pick-up / Van; Nissan Cube, Juke, Kubistar, Micra, Note, NV200, Qashqai, Tiida; Suzuki Jimny; Mercedes A-Class, B-Class, Citan, CLA.

Designed for the locking/positioning of engine shafts such as camshaft, crankshaft, injection pump and flywheel. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-701 Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1



(Engine codes: K9K, K9K262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 838, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898; S9W 206, S9W 208, S9W 212, S9W 700, S9W 702, 607.951)

KL-1280-24 KC

Locking Tool Set, Renault

Applicable to Renault, Opel/Vauxhall and Nissan 1.5, 1.9, 2.2, 2.5, 2.8 and 3.0 litre Common Rail Diesel engines as found in Renault Clio II / III, Espace IV, Fluence, Kangoo I / II, Laguna II / III, Logan, Mascott, Master II, Megane I / II / III, Modus I / II, Scenic I / II / III, Traffic II, Twingo II, Vel Satis; Dacia Duster, Logan; Nissan Cube, Interstar, Juke, Kubistar, Micra, Navara, Note, NV200, Primastar, Qashqai, Tiida; Suzuki Grand Vitara, Jimny; Mitsubishi Carisma, Space Star; Opel/Vauxhall Movano-A, Vivaro. (Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q 82, F9Q W772, G9T 600, G9T 605, G9T 606, G9T 607, G9T 642, G9T 645, G9T 700, G9T 702, G9T 702/703, G9T 703, G9T 706, G9T 707, G9T 720, G9T 722, G9T 742/743, G9T 750, G9T F722, G9U 630, G9U 632, G9U 650, G9U 720, G9U 724, G9U 726, G9U 730, G9U 750, G9U 754, G9U A720, K9K, K9K 262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702, VG30E)

Designed for the locking/positioning of camshafts, crankshaft, injection pump, timing belt tensioner and flywheel. The kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when changing a timing belt or performing an engine repair.



Scope of Delivery: KL-1280-24 KC Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-203 A	Lockin Pin, Ø 4.9mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-242 A	Locking Tool for Camshafts	1
KL-1280-243 B	Locking Pin, Ø 7mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1



KL-1280-27 K

Locking Tool Set, Renault 2.0 dCi

Applicable to Renault, Nissan, Opel/Vauxhall 2.0 and 2.3 dci Diesel engines as found in Renault Espace IV, Koleos, Laguna, Master, Megane, Senic III, Traffic II, Vel Statix; Nissan Primastar, Qashqai, X-Trail; Opel/Vauxhall: Movano-B, Vivaro. (Engine codes: M9R, M9T)

Designed for the locking/positioning of camshaft, crankshaft and timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-1280-27 K Locking Tool Set, Renault 2.0 dCi

Part No.	Description	Qty
KL-1280-271	Locking Tool for Camshaft	1
KL-1280-272	Locking Pin, M10/Ø 7.5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0182-19 A	Flywheel Locking Tool	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1280-2790	Plastic Storage Case	1



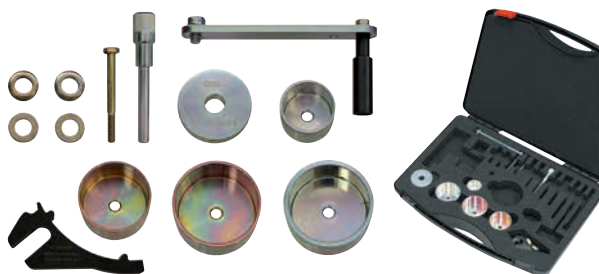
KL-1280-273

Reaction Wrench

Applicable to Renault, Nissan, Opel/Vauxhall 2.0 dci, 2.3 dCi/CDTi and 3.0 dCi Diesel engines as found in Renault Espace, Koleos, Laguna, Latitude, Master, Megane, Traffic, Vel Satis; Nissan Primastar, Qashqai, X-Trail; Opel/Vauxhall Movano-B, Vivaro. (Engines codes: M9R, M9T, V9X)

This tool is used to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw. Required when replacing a timing belt or performing an engine repair.

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(Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, VG30E)

KL-1280-702 K

Locking Tool Set, Renault

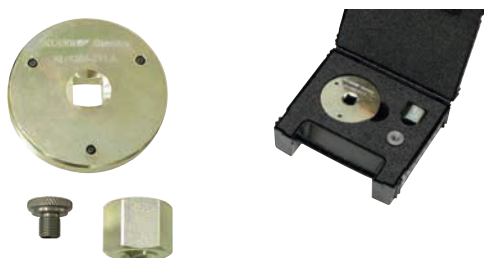
Applicable to Mitsubishi, Nissan, Opel/Vauxhall, Renault, and Suzuki 1.9 and 3.0 litre Diesel engines as found in: Renault Clio II, Espace IV, Kangoo, Laguna II, Master II, Megane I / II / III, Scenic I / II / III / RX4, Traffic II; Opel/Vauxhall Movano-A, Vivaro; Mitsubishi Carisma, Space Star; Nissan Interstar, Primastar, Navara; Suzuki Grand Vitara; Volvo S40/V40.

Designed for the locking/positioning of the crankshaft, injection pump and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt.

An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-702 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1



(Engine codes: F8Q, F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, D 4192 T, D 4192 T2)

KL-1280-21 KA

Injection Pump Adjustment Tool, Renault 1.9 D

Applicable to Renault, Mitsubishi, Opel/Vauxhall and Volvo 1.9 litre direct-injection Diesel engines with adjustable injection pump sprocket as found in Renault Megane/Scenic, Kangoo; Mitsubishi Carisma, Space Star; Opel/Vauxhall Arena; Nissan Interstar, Primastar and Volvo S40/V40.

This injection pump adjustment tool is used in conjunction with the KL-0129-1 A tool set and the corresponding locking tools for adjusting the injection pump timing relative to the crankshaft (start-of-delivery setting).

Scope of Delivery: KL-1280-21 KA Injection Pump Adjustment Tool, Renault 1.9 D

Part No.	Description	Qty
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-0129-2105 A	Adaptor for Bosch Pumps, M10x1 to M8x1	1
KL-1280-2190	Plastic Storage Case	1

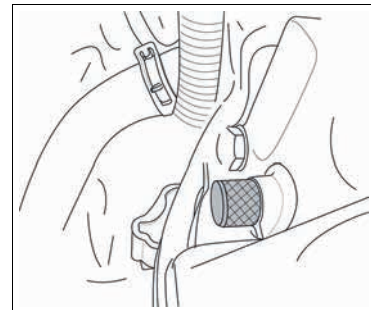
KL-1280-703

Locking Tool Set, Renault

Applicable to Nissan, Opel/Vauxhall and Renault 2.2 and 2.5 litre Diesel engines as found in: Renault Espace, Laguna II, Master II, Traffic II, Vel Satis; Opel/Vauxhall Movano-A, Vivaro; Nissan Interstar, Primastar.

(Engine codes: G9T 600, G9T 605, G9T 606, G9T 607, G9T 642, G9T 645, G9T 700, G9T 702, G9T 703, G9T 706, G9T 707, G9T 720, G9T 722, G9T 742, G9T 743, G9T 750, G9T F722, G9U 630, G9U 632, G9U 650, G9U 720, G9U 724, G9U 726, G9U 730, G9U 750, G9U 754, G9U A720)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft. An indispensable tool set when replacing a timing belt or performing an engine repair.



Scope of Delivery:

KL-1280-703 Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-242 A	Locking Tool for Camshaft	1
KL-1280-243 B	Locking Pin, Ø 7mm	1

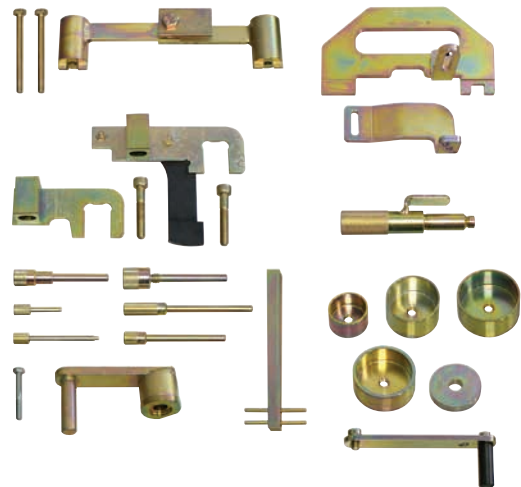
KL-1280-101 KA

Locking Tool Set

Applicable to Renault, Dacia, Opel/Vauxhall, Ford, Suzuki, Nissan, Mitsubishi, Volvo 1.2, 1.4, 1.6, 1.8, 2.0 16V and 2.5 20V petrol engines, and for the 1.9, 2.2, 2.5, 2.8 D/TD/dTi and the 1.5, 1.9, 2.2, 2.5 dCi Diesel engines as found in Renault Avantime, Clio II/III, Espace IV, Fluence, Kangoo I/II, Laguna II/III, Logan, Mascott, Master, Megane I/II/III, Modus I/II, Safrane, Scenic I/II/III, Thalia, Traffic II, Twingo, Vel Satis, Wind; Dacia Duster, Logan; Nissan Cube, Interstar, Juke, Kubistar, Micra, Navara, Note, NV200, Primastar, Primera, Qashqai, Tiida; Suzuki Grand Vitara, Jimny; Opel/Vauxhall Movano, Vivaro; Volvo S40, V40; Ford Focus, Galaxy, Kuga, Mondeo, S-Max; Mitsubishi Carisma, Space Star.

(Engine codes: B 4184 S2, B 4184 S9, B 4194 T2, B 4204 S2, B 4204 T3, D4F, D4Ft, D7F, E7J, F4P, F4R, F4Rt, F8Q, F9Q, F9Q1, F9Q2, G9T, G9U, K4J, K7J, K7M, K9K, K4M, N7Q, N7U, S9W, VG30E)

Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft, and crankshaft as well as for the adjustment of the timing belt tensioner while replacing a timing belt or during an engine repair.

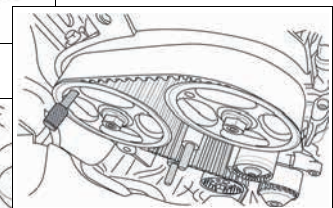
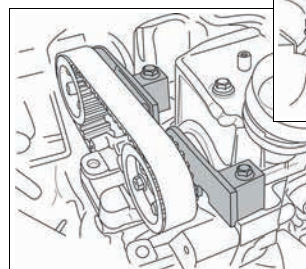
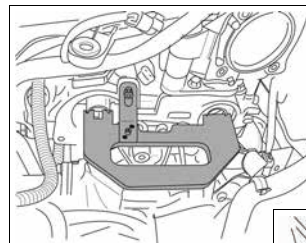


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Scope of Delivery:

KL-1280-101 KA Locking Tool Set

Part No.	Description	Qty
KL-1280-221 A	Locking Tool - For locking camshafts	1
KL-1280-231 B	Setting Gauge - For locking camshafts	1
KL-1280-242 A	Locking Tool - For locking camshafts	1
KL-1280-222 A	Locking Pin - For locking the crankshaft	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm - For locking the crankshaft	1
KL-1280-202 A	Locking Pin, Ø 6.9mm - For locking the crankshaft	1
KL-1280-204 A	Locking Pin, Ø 4.9/3.9mm - For locking the crankshaft	1
KL-1280-234 B	Locking Pin - For locking the crankshaft	1
KL-1280-243 B	Locking Pin - For locking the crankshaft	1
KL-1280-203 A	Locking Pin, Ø 4.9mm - For locking the injection pump	1
KL-1280-205 A	Hex Screw, M6x45mm - For adjusting the tensioner pulley	1
KL-1280-206 A	Adjustment Tool for Belt Tensioner	1
KL-1280-1011 A	Timing Belt Tensioner Tool - For adjusting the tensioner pulley	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-1090	Plastic Storage Case	1





Applicable to Renault, Opel/Vauxhall, Volvo petrol engines as found in Renault: Clio, Twingo 1.2 (D7F) 1.2, 1.4, 1.6 (E5 - E7F / E7J/K7M) Clio, Megane, Scenic, Kangoo: 1.7, 1.8, 2.0 (F1N - F3N / F3P / F2R - F3R) Clio, Megane, Scenic: 1.8, 2.0 16V (F7P/F7R) Clio Williams, Megane, Spider, R19: 2.0, 2.2 (J5R - J7R, J5T) Safrane, Espace, Master, Trafic Volvo: 440, 460, 480 (B16 / B18 / B20) etc. Also suitable for use on Renault, Opel/Vauxhall, Volvo Diesel engines as found in Renault Clio, Laguna, Megane, Kangoo, Espace, Master, Trafic; Opel/Vauxhall Arena, Movano; Volvo S40, V40 1.9, 2.5, 2.8 (F8M / F8Q / G8T / J8S / F9Q / S8U / S9U / S9W) etc.

KL-1280-20 KA

Locking Tool Set, Renault

Tool set for locking/positioning camshafts, crankshaft and injection pump shaft. It also includes a tool to tension the timing belt. An indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-20 KA Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-2011 A	Locking Plate for Camshafts	1
KL-1280-2012	Set of Spacer Discs, 2mm (2-piece)	1
KL-1280-2013	Set of Spacer Discs, 8mm (2-piece)	1
KL-1280-203 B	Locking Pin for Crankshaft, Ø 7.9/11.9mm	1
KL-1280-202 A	Locking Pin for Crankshaft, Ø 6.9mm	1
KL-1280-203 A	Locking Pin for Injection Pump, Ø 4.9mm	1
KL-1280-204 A	Locking Pin for Crankshaft, Ø 4.9/3.9mm	1
KL-1280-206 A	Adjustment Tool for Timing Belt Tensioner, with 2 pins	1
KL-1280-205 A	Hex Screw, M6x45mm	1
KL-4990-1103	Plastic Storage Case	1

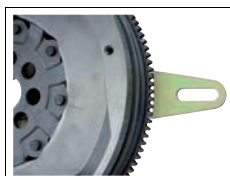


KL-0182-1 A

(Universal)

Flywheel Locking Tool

For detailed information, please refer to Chapter 6.6-58.



KL-0182-19 A

Flywheel Locking Tool

Suitable for use on Renault and Opel/Vauxhall 1.4, 2.0, 2.2, 2.3, 2.5 litre Diesel engines as found in Renault Laguna, Safrane, Espace etc. (Engine codes: G8T, G9T, G9U, H4JT, M9R, M9T)

Designed to lock the flywheel with the gearbox removed.

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This tool set is designed to lock/position engine shafts such as camshafts and crankshaft, to prevent camshaft sprockets from turning* while loosening or tightening the camshaft central screws. It also allows for the quick and easy installation of camshaft plugs. An indispensable tool set when replacing a timing belt or performing an engine repair.

*only the KL 1280-281 A

KL-1280-26 K

Locking Tool Set, Renault

Applicable to Renault, Dacia, Opel/Vauxhall, Ford, Nissan, Volvo petrol engines: 1.2 8V (D7F), 1.2 16V (D4F), 1.2 Turbo (D4Ft), 1.4 8V (E7J), 1.4 16V (K4J), 1.4 (K7J); 1.6 8V (K7M), 1.6 16V (K4M), 1.8 16V (F4P); 2.0 8V (F3R), 2.0 16V (F4R / F4Rt / F7R / N7Q), 2.0 (M54R); 2.0 16V IDE (F5R), 2.5 20V (N7U); Diesel engines: 1.5 dCi (K9K); Volvo engines: 1.8 16V (B 4184 S2 / S9), 1.9 T4 (B4194 T2), 2.0 16V (B 4204 S2), 2.0 T (B 4204 T3);

Ford: 2.5 (Duratec-ST /-VE /-RS).

as found in Twingo, Clio, Modus, Kangoo, Megane, Megane Scenic, Grand Scenic, Laguna, Espace, Safrane, Traffic, Avantime, Vel Satis as well as in Opel/Vauxhall Vivaro; Dacia Sandero, Logan; Nissan Micra, Note, Almera, Kubistar, Primastar; Volvo S40 I, V40; Ford Galaxy, Focus, Kuga, Mondeo, S-Max.

Scope of Delivery: KL-1280-26 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-205 A	Hex Screw, M6x45mm	1
KL-1280-206 A	Belt Tensioner Wrench with 2 Pins	1
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-1280-231 B	Setting Gauge for Camshafts	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-235 B	Tensioner Wrench for Idler Pulley	1
KL-1280-236 A	Locking Plate for Camshaft Sprockets, Renault	1
KL-1280-2371	Installation Tool, Ø 43mm	1
KL-1280-2372	Installation Tool, Ø 57.5mm	1
KL-1280-250	Setting Gauge for Camshaft	1
KL-1280-281 A	Locking Plate for Camshaft Sprockets	1
KL-1380-1011 A	Timing Belt Pre-Tensioning Tool	1
KL-1280-2690	Storage Case with Insert	1

KL-1280-751 K

Locking Tool Set, Renault

Applicable to Renault, Dacia, Nissan, Proton 1.2, 1.4 and 1.6 litre petrol engines as found in: Renault Clio II / III, Kangoo I / II, Logan, Megane, Modus, Thalia, Twingo I / II, Wind; Nissan Kubistar; Proton Savvy; Dacia Logan.

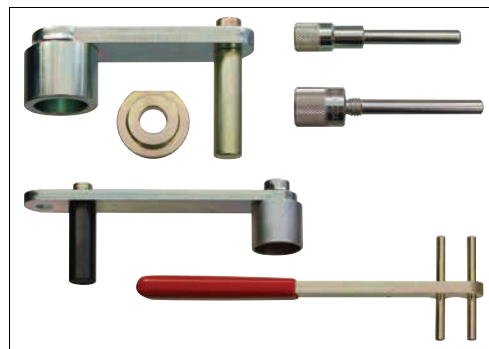
(Engine codes: D4F, D4F 702, D4F 704, D4F 706, D4F 708, D4F 712, D4F 714, D4F 716, D4F 722, D4F 728, D4F 730, D4F 740, D4F 742, D4F 764, D4F 772, D4F 774, D4Ft 780, D4Ft 782, D4Ft 784, D4Ft 786, D7F 702, D7F 703, D7F 704, D7F 706, D7F 708, D7F 710, D7F 720, D7F 722, D7F 726, D7F 744, D7F 746, D7F 764, D7F 766, D7F 800, D7F B700, D7F C701, E7J 626, E7J 634, E7J 635, E7J 780, K7J 710, K7M 710, K7M 744, K7M 745, K7M 746, K7M 850)

Designed for the locking/positioning of the crankshaft and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-751 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-206 A	Belt Tensioner Wrench with 2 Pins	1
KL-1380-1011 A	Timing Belt Pre-Tensioning Tool	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-7511	Timing Belt Pre-Loading Tool	1
KL-4990-1003	Plastic Storage Case	1



KL-1280-28 KB

Locking Tool Set, Renault

Applicable to Renault, Dacia, Opel/Vauxhall, Nissan 1.4, 1.6, 1.8 and 2.0 litre petrol engines as found in Renault Aventime, Clio II / III, Espace IV, Kangoo, Laguna II / III, Logan, Megane I / II / III, Modus, Scenic I / II, Traffic II, Twingo II, Vel Satis; Nissan Kubistar, Primastar; Opel/Vauxhall Vivaro; Dacia Duster, Logan.

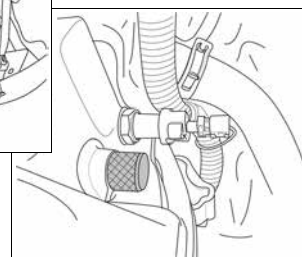
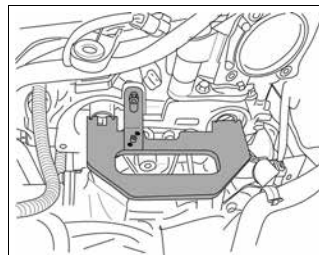
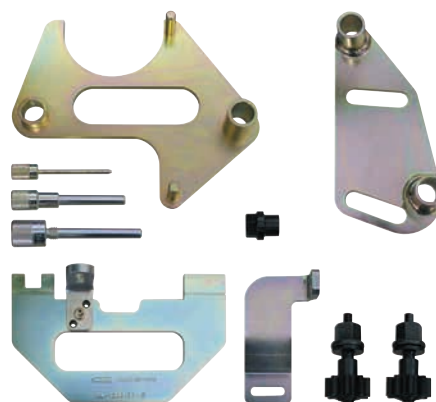
(Engine codes: F4P 720, F4P 722, F4P 770/771, F4P 772, F4P 773, F4P 774, F4P 775, F4R 712, F4R 713, F4R 714, F4R 715, F4R 720/722, F4R 730, F4R 732, F4R 740, F4R 740/741, F4R 741, F4R 744, F4R 746, F4R 770/771, F4R 790, F4R 791, F4R 792, F4R 820, F4R 830, F4R 832, F4Rt 720/722, F4Rt 762/763, F4Rt 764/765, F4Rt 766, F4Rt 767, F4Rt 774, F4Rt 776, F4Rt 784, F4Rt 786, F4Rt 787, F4Rt 794/795, F4Rt 796/797, F4Rt 800, F4Rt 802, F4Rt 810, F4Rt 811, F4Rt 813, F4Rt 867, F4Rt 870, F4Rt 874, F4Rt 886, F4Rt 887, F4Rt 896/897, K4J, K4J 700, K4J 710/711, K4J 712, K4J 713, K4J 714, K4J 715, K4J 730, K4J 732, K4J 740, K4J 750, K4J 770, K4J 780, K4M 606, K4M 690, K4M 696, K4M 700, K4M 701, K4M 704, K4M 706, K4M 708, K4M 709, K4M 710/711, K4M 712, K4M 714, K4M 716, K4M 718, K4M 730, K4M 732, K4M 734, K4M 740, K4M 742, K4M 743, K4M 744/745, K4M 746, K4M 748, K4M 750/752/753, K4M 752/753, K4M 760, K4M 760/761, K4M 761, K4M 764, K4M 766, K4M 782, K4M 790, K4M 791, K4M 792, K4M 794, K4M 800, K4M 800/801, K4M 801, K4M 802, K4M 804, K4M 812/813, K4M 824, K4M 830, K4M 831, K4M 834, K4M 846, K4M 848, K4M 854, K4M 858, K4M 862, K4M 866)

Designed for the locking/positioning of camshafts, crankshaft and V-ribbed belt tensioners. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-28 KB Locking Tool Set, Renault

Part No.	Description	Qty
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1280-231 B	Setting Gauge for Camshaft	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-236 A	Locking Plate for Camshaft Sprockets, Renault	1
KL-1280-281 A	Locking Plate for Camshaft Sprockets	1
KL-1280-2690	Plastic Storage Case	1





KL-1280-23 KB

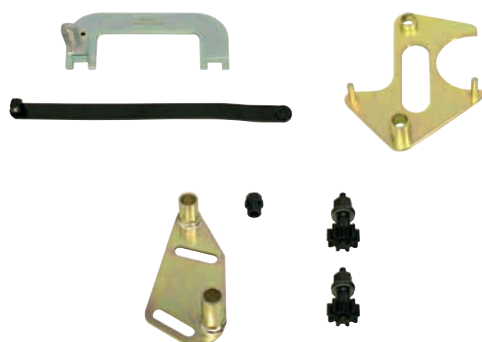
Locking Tool Set for Timing Belt, Renault 1.4, 1.6, 1.8, 2.0 16V and 1.5 dCi

Applicable to Renault 1.4, 1.6 16V (K4J / K4M [98-]), 1.8, 2.0 16V (F4P / F4Rt / F4R [98-]) TwinCam petrol engines, and 1.5 dCi (K9K) Diesel engines; as installed in Renault Clio, Clio Sport, Modus, Megane / Scenic, Kangoo, Espace, Laguna; and Nissan Micra, Almera, Kubistar, Cube, Juke, Note, NV200, Qashqai and Tiida; Dacia 1.5 Duster and Logan; Opel/Vauxhall Vivaro; Suzuki 1.5 Jimny.

Tool set for the locking/positioning of engine shafts such as camshafts and crankshaft; required when changing a timing belt or during an engine repair.

Scope of Delivery: KL-1280-23 KB Locking Tool Set for Timing Belt

Part No.	Description	Qty
KL-1280-231 B	Setting Gauge for Camshafts	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-2390 B	Plastic Storage Case	1



KL-1280-280

Upgrade Kit for KL-1280-23 KB (forms KL-1280-28 KA)

Applicable to Renault 1.4 16V (K4J); 1.6 16V (K4M); 1.8 16V (F4P); 2.0 16V (F4R) and 2.0 16V IDE (F5R 700, 701, 740) TwinCam petrol engines.

e.g. Renault Megane, Laguna, Laguna II.

This tool set is designed to prevent camshaft sprockets from turning while loosening or tightening the camshaft central screws, as well as to lock and position camshafts. It can also be used for the removal and installation of the idler pulley. An indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-280 Upgrade Kit

Part No.	Description	Qty
KL-1280-235 B	Tensioner Wrench for Idler Pulley	1
KL-1280-236 A	Locking Plate for Camshaft Sprockets	1
KL-1280-281 A	Locking Plate for Camshaft Sprockets	1
KL-1280-250	Setting Gauge for Camshaft	1

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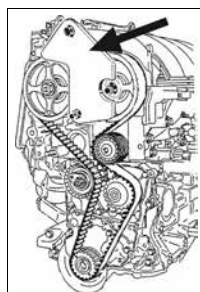


KL-1280-235 B

Tensioner Wrench for Idler Pulley

Suitable for use on Renault 1.4 and 1.6 TwinCam (DOHC) petrol engines (engine codes: K4J, K4M) as found in Clio III, Megane/Scenic II, Laguna II, Modus and Kangoo. Volvo 2.4 and 2.5 engines (engine codes: B5244S4, B5244S5, B5244S7, B5254T3, B5254T7) as found in C30, C70, S40 and V50. Proton Savvy 1.2 (engine code: D4F).

This tool is required for the removal and installation of the idler pulley, e.g. when replacing a timing belt or performing an engine repair. For example, included in tool set **KL-1280-280**.



KL-1280-236 A

Locking Plate for Camshaft Sprockets, Renault

Suitable for use on Renault 1.4 and 1.6 litre TwinCam petrol engines (engine codes: K4J, K4M) as found in Clio III, Megane/Scenic II, Laguna II, Modus and Kangoo.

This tool is used to counter-hold the camshaft sprockets while loosening/tightening the camshaft central screw, e.g. when replacing a timing belt or during an engine repair.

KL-1280-237

Installation Tool Set, Renault

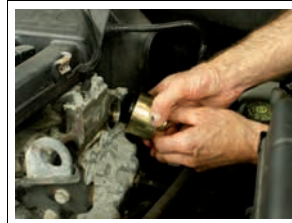
Suitable for use on Renault 1.4, 1.6, 1.8 and 2.0 16V TwinCam petrol engines as found in Renault Clio, Avantime, Laguna, Megane, Modus, Scenic, Trafic, Twingo, Vel Satis, Kangoo and Espace; Dacia Duster and Logan; Nissan Primastar; Opel/Vauxhall Vivaro. (Engine codes: K4J, K4M, F4P, F4R; F4Rt, F5R).

These tools allow for the quick and easy installation of camshaft plugs. They are required when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-237 Installation Tool Set, Renault

Part No.	Description	Qty
KL-1280-2371	Installation Tool, Ø 43mm	1
KL-1280-2372	Installation Tool, Ø 57.5mm	1



KL-1280-22 A

Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

Applicable to Renault and Volvo TwinCam petrol engines.

Renault 2.0 16V (N7Q) and 2.5 20V (N7U) as found in Laguna and Safrane.

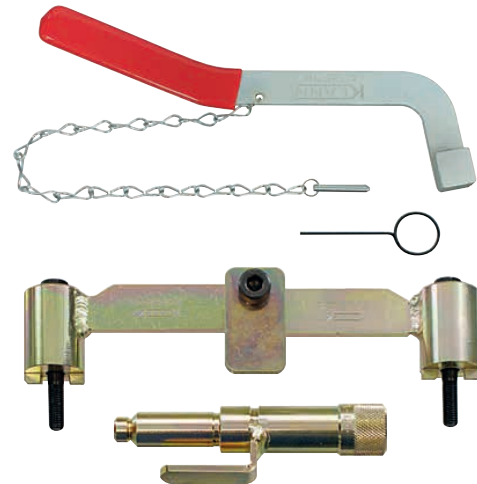
Volvo 1.8 16V (B4184 S2/S9), 1.9 T4 (B4194 T2) and 2.0 16V / T (B4204 S2/T3) as found in S40 laund V40.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft when changing a timing belt or during engine repairs.

Scope of Delivery:

KL-1280-22 A Locking Tool Set for Timing Belt

Part No.	Description	Qty
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-0180-3019	Retaining Pin for Hydraulic Tensioner Pulley, Ø 1.9mm	1
KL-1280-224 A	Tensioner Spanner with Retaining Pin for Auxiliary Belt	1



KL-1280-25 KA

Locking Tool Set, Renault 2.0

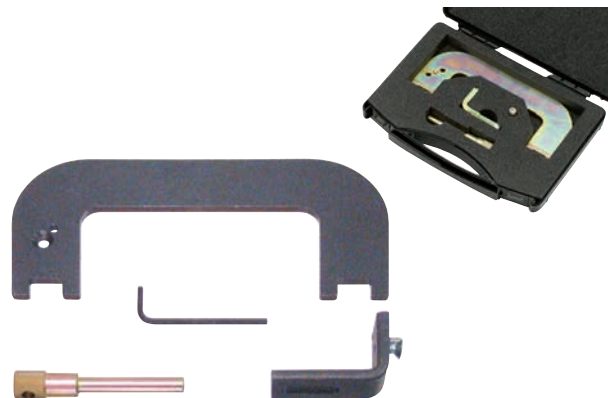
Applicable to Renault 2.0 16V IDE TwinCam petrol engines as found in Renault Megane, Laguna etc. (Engine codes: F5R 700, 701, 740)

This tool set is designed for the locking/positioning of engine shafts such as camshafts and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-1280-25 KA Locking Tool Set, Renault 2.0

Part No.	Description	Qty
KL-1280-250	Setting Gauge for Camshafts	1
KL-1280-233 B	Locking Pin, Ø 7.9/1.9mm	1
KL-1280-2590 A	Storage Case with Insert	1



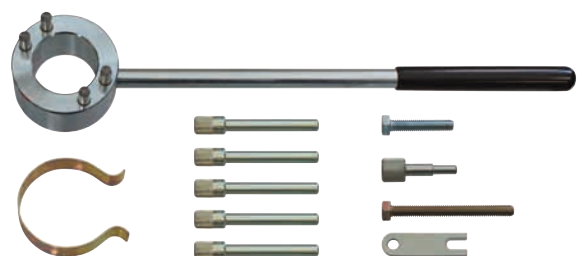
KL-1380-25 A

Locking Tool Set, PSA

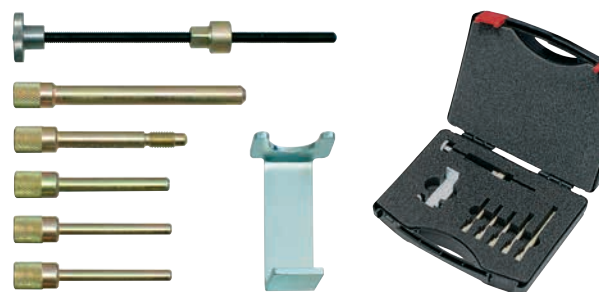
Applicable to PSA (Citroën, Peugeot), Lancia and Renault 3.0 litre petrol engines as found in: Peugeot 406, 407, 607; Renault Avantime, Laguna II; Citroën C5, C6, C8; Lancia Phedra.

(Engine codes: ES9A, ES9J4S, ES9J4S/L5, L7X, L7X 731, L7X 733, XFU, XFV, XFW, XFX)

Designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner. The kit also includes tools to counter-hold the camshafts and to retain the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.



For scope of delivery, please refer to chapter 6.6-81



(Engine codes: 20T2N, N22A1, N22A2, etc.)

KL-1780-16 K

Locking Tool Set, Honda

Suitable for the Honda/Rover 1.6 Vti/VTEC, 1.8, 2.0, 2.2, 2.2 VTEC and the 2.3i petrol engines, and 2.0 TD, 2.0 Tdi Diesel engines as found in Honda Civic, Integra R, Accord, Prelude and Shuttle (1987-2004); Rover 216/416GTi and 600 Series, and Landrover Freelander.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as for locking and adjusting the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1780-16 K Locking Tool Set, Honda

Part No.	Description	Qty
KL-1780-102 A	Locking Pin for Injection Pump, Ø 9.4mm	1
KL-1780-103 A	Locking Pin, Ø 6.7mm	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	2
KL-1780-107 A	Locking Pin, Ø 8mm	1
KL-1780-108 A	Tensioner Spindle for Timing Belt	1
KL-1780-140 A	Fixing Clip for Tensioning Element	1
KL-1780-1690	Plastic Storage Case	1

KL-1780-15 A

Reaction Wrench Set, Honda

Suitable for the Honda 1.2, 1.4, 1.7, 1.8, 2.0, 2.2, 2.3, 3.5 and 2.2 CDTi engines as found in Honda Accord, City, Civic, CR-V, FR-V, Insight, Jazz, Legend, Odyssey, Prelude, S2000, Shuttle, Stream. (Engine codes: N22A1, N22A2)

This tool set is designed to counter-hold the crankshaft pulley while loosening or tightening the crankshaft central screw, e.g. during engine repairs.

Scope of Delivery: KL-1780-15 A Reaction Wrench Set, Honda

Part No.	Description	Qty
KL-1780-1501 A	Lever	1
KL-1780-1502 A	Reaction Wrench, (waf) 50mm, angled	1
KL-1780-1503 A	Reaction Wrench, (waf) 50mm	1

6



KL-1780-10 KA

Locking Tool Set for Timing Belt, Rover

Suitable for the Rover Diesel and petrol engines (inclusive of Di and 16V) as found in Austin Maestro, Montego; Hoda Accord, Civic, Integra, Odyssey, Prelude, Shuttle; Land Rover Defender, Discovery, Freelander; LDV 200 Series, Sherpa; MG Express, MGF, TF, ZR, ZS, ZT, ZT-T; Rover 25, 45, 75, 100 Series, 200 Series, 400 Series, 600 Series, 800 SeriesCDV, Metro, Streetwise.

Designed for the locking/positioning of the flywheel, engine shafts such as camshafts, balance shaft, and crankshaft. Also includes a tool such as timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1780-10 KA Locking Tool Set for Timing Belt, Rover

Part No.	Description	Qty
KL-1780-101 A	Locking Pin, Ø 6.6mm	2
KL-1780-102 A	Locking Pin for Injection Pump, Ø 9.4mm	1
KL-1380-2211 A	Locking Pin for Injection Pump, Ø 6.0mm	1
KL-1380-2215 A	Locking Pin (angled) for Flywheel, Ø 7.7mm	1
KL-1480-11	Locking Pin (angled) for Flywheel, Ø 6.0mm	1
KL-1480-18	Hex Screw, M8x40mm	3
KL-1780-103 A	Locking Pin, Ø 6.7mm	2
KL-1380-2213 A	Locking Pin, Ø 4.9mm	2
KL-1780-105 A	Locking Tool for Camshafts	1
KL-1780-106 A	Locking Tool for Camshafts	1
KL-1780-107 A	Locking Pin for Balance Shaft, Ø 8.0mm	1
KL-1280-205 A	Hex Screw M6x45mm	1
KL-1380-2230 A	Adjuster for Timing Belt Tensioner, 8 mm, square	1
KL-1780-108 A	Tensioner Spindle for Timing Belt	1
KL-1780-1090 A	Storage Case with Insert	1



(Engine codes: 10P, 14K16, 14K2A/D, 14K4C/D, 14K4F, 15P, 16K16, 16P, 18K16, 20HD, 20HD-M8, 20HD-M16, 20HD-M16, 20M4, 20M4G, 20T, 20T2N, 20T2R, 20T4, B16A1, B16A2, B18B2, B18C2, B18C6, B18C7, B20A1, B20A2, B20A5, B20A6, B20A7, B20A8, B20A9, D16A8, D16A9/Z4, F18A2, F18A3, F18B2, F18B4, F20A2, F20A3, F20A4, F20A5, F20A6, F20A7, F20A8, F20B3, F20B5, F20B6, F20B7, F20Z1, F20Z2, F20Z3, F22A1, F22A3, F22A5, F22A7, F22A8, F22B1, F22B3, F22B5, F22B6, F22B8, F22Z2, F23A1, F23A7, F23Z2, F23Z5, H22A1, H22A2, H22A4, H22A5, H22A7, H22A8, H23A1, H23A2, H23A3, K1.8, K16, K16-1.1, K16-1.4, K16-1.4+, K16-1.6, K16-1.8, K18, MDi, MDi/BB, TN44)

KL-1780-12 KA

Locking Tool Set, Rover 45 V6, 75 V6

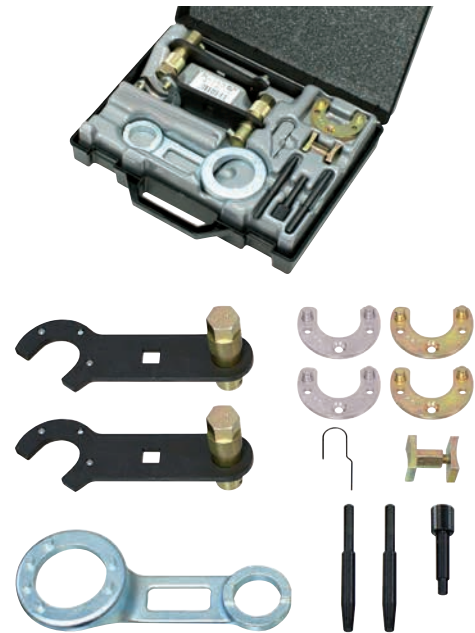
Applicable to Rover 2.0 and 2.5 V6 TwinCam engines as found in Rover 45, 75, 800 Series; Land Rover Freelander; MG ZR, ZS, ZT/ZT-T. (Engine code: KV6)

Designed for the locking/positioning of camshafts and the timing belt tensioner when replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-1780-12 KA Locking Tool Set, Rover 45 V6, 75 V6

Part No.	Description	Qty
KL-1780-121	Locking Tool for Camshaft (2 pieces)	1
KL-1780-122	Adaptor for Locking Tool for Camshaft (silver) (2 pieces)	1
KL-1780-123	Adaptor for Locking Tool for Camshaft (golden) (2 pieces)	1
KL-1380-2226 A	Retaining Pin	1
KL-1780-124	Adjustment Tool for Rear Camshaft Sprockets	1
KL-1780-125	Spreader Tool for Rear Camshaft Sprockets	1
KL-1780-126	Mounting Pin for Rear Camshaft Sprockets (2 pieces)	1
KL-1780-127	Locking Pin, Ø 7.5mm	1
KL-1780-1290	Plastic Storage Case	1

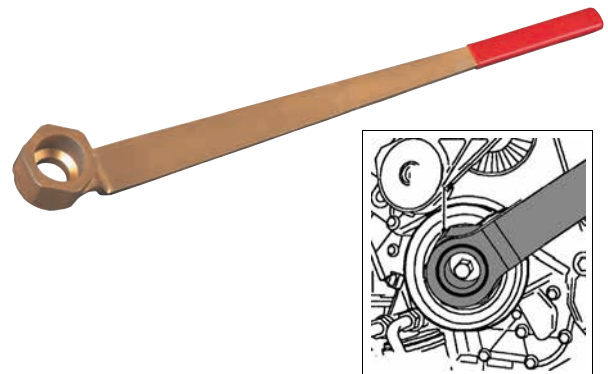


KL-1780-13

Reaction Wrench for Crankshaft

Suitable for use on Rover 2.0 and 2.5 V6 TwinCam engines (KV6) as found in Rover 45, 75 and Land Rover Freelander.

Designed to counter-hold the crankshaft pulley while loosening or tightening the crankshaft central screw (for example when replacing a timing belt).



6

KL-0482-45 KA

Locking Tool Set, Opel/Vauxhall 1.3 CDTi

Applicable to Opel/Vauxhall (Suzuki/Subaru) 1.3 litre CDTi/DDiS Diesel engines (Engine codes: A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Z13DT, Z13DTH, Z13DTI, Z13DTJ, Z13DTR) as found in Corsa, Swift etc.

Applicable to Fiat (Alfa/Ford/Lancia/Citroën/Peugeot) 1.3 litre engines. (Engine codes: 169A1.000; 169A1.000 (FD4)/BAAA/B; 169A5.000; 188A8.000; 188A9.000; 199A2.000; 199A3.000; 199A9.000; 199B1.000; 199B1.0000; 199B2.000; 199B4.000; 223A9.000; 263A2.000; 263A2.000; F13DTE5 (FHZ))

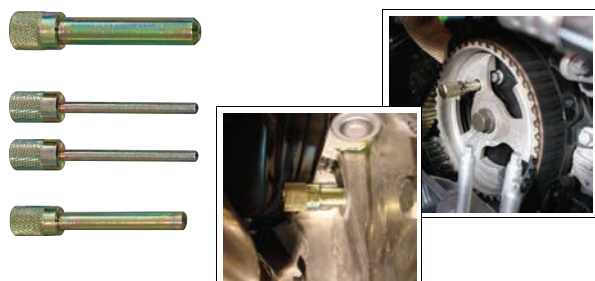
This tool set is designed for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as of the timing chain tensioner while replacing a timing chain or during an engine repair.

Scope of Delivery:

KL-0482-45 K Locking Tool Set, Opel/Vauxhall 1.3 CDTi

Part No.	Description	Qty
KL-0482-450 A	Locking Tool for Camshaft (2 pcs.)	1
KL-0482-451 A	Locking Pin for Crankshaft, Ø 6mm	1
KL-0482-434	Retaining Pin, Ø 2.4mm	1
KL-0482-4590 A	Plastic Storage Case	1





(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTED, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

KL-0680-220 B

Set of Locking Pins, Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDiS; Toyota 1.0 VVT, 1.4 Di, 1.4 HDi; Volvo 1.6 D Diesel engines.

These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1

KL-1280-702 K

Locking Tool Set, Renault

Applicable to Mitsubishi, Nissan, Opel/Vauxhall, Renault and Suzuki 1.9 and 3.0 litre Diesel engines as found in: Renault Clio II, Espace IV, Kangoo, Laguna II, Master II, Megane I / II / III, Scenic I / II / III / RX4, Traffic II; Opel/Vauxhall Movano-A, Vivaro; Mitsubishi Carisma, Space Star; Nissan Interstar, Primastar, Navara; Suzuki Grand Vitara; Volvo S40/V40.

Designed for the locking/positioning of the crankshaft, injection pump and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-702 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1

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(Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, VG30E)



(Engine codes: F8Q, F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, D 4192 T, D 4192 T2)

KL-1280-21 KA

Injection Pump Adjustment Tool, Renault 1.9 D

Applicable to Renault, Mitsubishi, Opel/Vauxhall and Volvo 1.9 litre direct-injection Diesel engines with adjustable injection pump sprocket as found in Renault Megane/Scenic, Kangoo; Mitsubishi Carisma, Space Star; Opel/Vauxhall Arena; Nissan Interstar, Primastar and Volvo S40/V40.

This injection pump adjustment tool is used in conjunction with the KL-0129-1 A tool set and the corresponding locking tools for adjusting the injection pump timing relative to the crankshaft (start-of-delivery setting).

Scope of Delivery:

KL-1280-21 KA Injection Pump Adjustment Tool, Renault 1.9 D

Part No.	Description	Qty
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-0129-2105 A	Adaptor for Bosch Pumps, M10x1 to M8x1	1
KL-1280-2190	Plastic Storage Case	1

KL-2580-10 K

Locking Tool Set, Mazda

Applicable to Ford, Citroën, Peugeot, Mazda, Suzuki, Toyota, Volvo 1.0, 1.25, 1.4, 1.6, 1.7, 1.8 and 2.0 litre petrol engines and for the 1.4, 1.6, 1.8 and 2.0 litre engines as found in Mazda 121, 2, 3, 6, Tribute; Ford C-Max, Cougar, Courier, Escort, Fiesta, Focus, Fusion, Galaxy, Mondeo, Orion, P100, Puma, S-Max, Sierra, Toureno, Transit; Opel/Vauxhall Agila, Corsa; Citroën Berlingo, C1, C2, C3, C4, C5, Xsara; Fiat Scudo; Peugeot 206, 307, 407; Suzuki C1; Toyota Aygo; Volvo C30, S40, V50 etc.

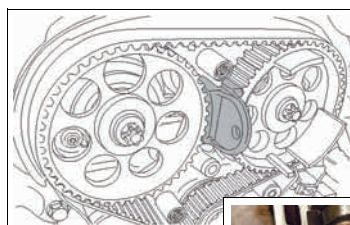
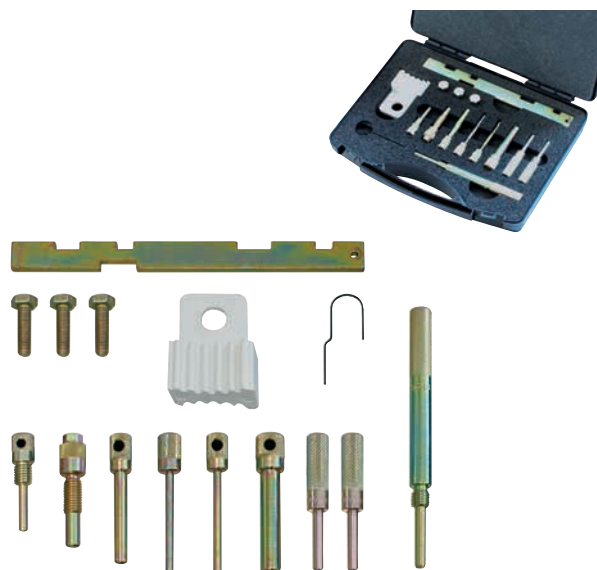
(Engine codes: 8HV, 8HW, 8HX, 9HX, 9HZ, BHDA/B, BHPA, C9DA/B/C, DHA, DHB, DHC, DHF, DHE, DHF, DHG, DV4TD, DV4TED4, DV6ATED4, DV6TED4, F6JA/B/C, F8JA/B, F9DA/B, FHA, FHE, FUJA/B, FXA/B, FXDA/C, FXDB/D, FXJA/B, FYDA/C, FYDB/D, FYDH, FYJA/B, G8DA/B, HCPA, HHDA, HWDA, HXDA, KKDA, L1T, L1V, M7JA/B, MHA, RFA, RFD, RFK, RFL, RFN, RTB, RTC, RTH, RTJ, RTK)

This tool set is designed for the locking/positioning of camshafts, crankshaft, injection pump shaft, as well as of the timing belt tensioner. An indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-2580-10 K Locking Tool Set, Mazda

Part No.	Description	Qty
KL-0680-10	Locking Pin for Crankshaft	1
KL-0680-14 A	Locking Pin, Ø 6mm	2
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1
KL-0680-18	Locking Pin for Crankshaft	1
KL-1380-2226 A	Retaining Pin for Tensioner Pulley, Ø 1.5mm	1
KL-2580-101	Locking Tool for Camshafts, Mazda 1.8 and 2.0	1
KL-1480-17	Hex Screw, M8x30mm	3
KL-2580-1090	Plastic Storage Case	1



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KL-0680-27 A

Locking Tool Set, Ford

Applicable to Ford and Mazda 1.25, 1.4, 1.6, 1.7, 1.8, 2.0, 2.3 and 2.5 litre TwinCam Duratec petrol engines (timing belt/timing chain), as installed in: Ford C-Max, Courier, Cougar, Fiesta, Fusion, Focus, Galaxy, Maverick, Mondeo, Puma, S-Max, Tourneo Connect and Transit Connect; Mazda 121, 2, 3, 323, 5, 6, MPV, Tribute and Xedos 9.

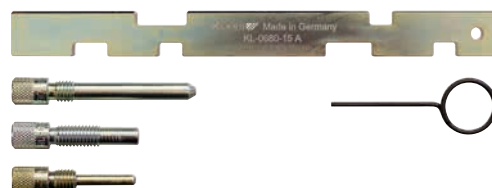
(Engine codes: ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, BP, CDBB, CGBA/B, CHBA/B, CJBA/B, CSDA, CSDB, E5FA, E5FC, E5SA, E5SB, EDDB, EDDC, EDDF, EYDB, EYDC, EYDD/E, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F8JA, F8JB, FE, FP, FS, FUJA, FUJB, FXJA, FXJA/B, FYJA, FYJB, FYJC, GZ, GZFA, GZFB, GZFC, HMDA, KL, L3, L5, L8, LF, MZR 1.8 (L8), N4JB, Q7DA, QQDA, QQDB, QQDC, SEBA, SEWA, SYDA, TBBA, TBBB, TBWA, TBWB, TNBA, YF, ZVSA)

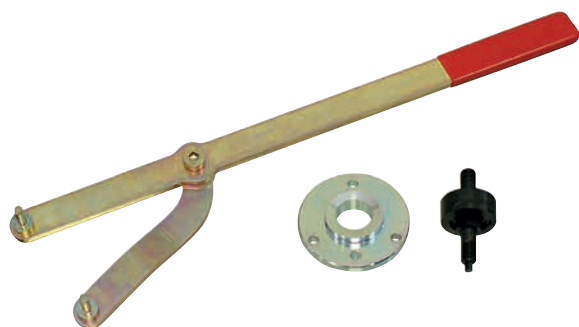
This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft and the timing belt tensioner. It is required when replacing timing belts/timing chains and for engine repairs.

Scope of Delivery:

KL-0680-27 A Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-16 A	Locking Pin for Crankshaft	1
KL-0680-18	Locking Pin for Crankshaft	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1





(Engine codes: E5FA, E5FC, E5SA, E5SB, QJBA, ZVSA etc.)

KL-0680-20 A

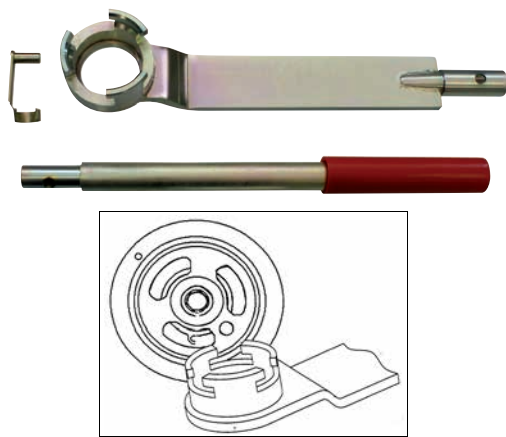
Vibration Damper Installation/Removal Tool, Ford/Mazda

Applicable to Ford Zetec engines as found in Ford Fiesta 1.25, 1.4, 1.6 16V, Puma 1.4, 1.6, 1.7 16V, Focus 2.2, Galaxy 2.0, 2.3, Transit 2.3 and Mazda 121 1.25 16V.

Designed for the removal and installation of vibration dampers. Required for engine repairs or when replacing a timing belt.

Scope of Delivery: KL-0680-20 A Vibration Damper Installation/Removal Tool

Part No.	Description	Qty
KL-0680-201 A	Reaction Wrench with Pin, Ø 7.5mm	1
KL-0680-202 A	Extraction Plate for Crankshaft Vibration Damper	1
KL-0680-203 A	Installation Tool for Crankshaft Pulley	1



(Engine codes: B4184S11, B4184S8, B4204S3, B4204S4, L3 Turbo, LF, LF (MZR DISI), MZ-CD 1.6 (Y6), MZR 1.3 (ZJ), MZR 1.5 (ZY), MZR 1.8 (L8), MZR 2.0 (LF), ZJ, ZY)

KL-0184-061

Reaction Wrench, Ford

Applicable to Ford, Mazda, Volvo 1.3, 1.5, 1.6, 1.8, 2.0 and 2.3 litre engines; as installed in Ford Focus/C-Max, Mondeo, S-Max, Galaxy; Mazda 2, 3, 5, 6, CX-7, MX-5; Volvo C30, S40, V50, V70, S80.

This tool is designed to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw. It is required when replacing timing belts and for engine repairs.

Technical Data:

Overall length (of assembled tool):	754mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm

Scope of Delivery: KL-0184-061 Reaction Wrench, Ford

Part No.	Description	Qty
KL-0184-0610	Reaction Wrench (Base Tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1

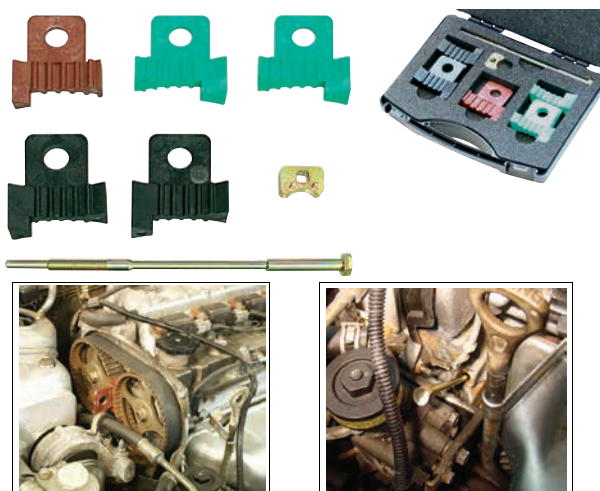


KL-2282-10

Reaction Wrench

Suitable for use on Subaru engines: 1.6, 2.0 and 2.5 litre (engine codes: EJ161, EJ20, EJ201, EJ251) as found in Forester 1998-2003, Legacy 1998-2006, Impreza 1998-2000. Note: Not suitable for the 2.0 litre Turbo engines with variable valve timing.

This tool is designed to counter-hold the camshaft pulley while loosening or tightening the camshaft central screw. It is required when replacing a timing belt or for engine repairs.



KL-2480-10 K

Locking Tool Set, Mitsubishi/Hyundai

Applicable to Mitsubishi/Hyundai 4-cylinder 2.0 16V and V6, 2.5 and 3.0 24V TwinCam petrol engines.

An indispensable tool set for locking the camshafts as well as for tensioning and adjusting the timing belt tensioner.

Scope of Delivery: KL-2480-10 K Locking Tool Set, Mitsubishi/Hyundai

Part No.	Description	Qty
KL-2480-101	Locking Tool Set, Mitsubishi 2.0 GTI	1
KL-2480-102	Locking Tool Set, Mitsubishi 2.5 24V and 3.0 24V	1
KL-2480-103	Locking Tool for Camshafts, Mitsubishi	1
KL-2480-110	Locking Pin for Tensioner Pulley	1
KL-2480-120	Adjuster for Timing Belt Tensioner	1
KL-2480-1090	Plastic Storage Case	1

KL-0780-10 KA

Locking Tool Set, Volvo (Diesel engines)

Applicable to Volvo 1.6, 1.9, 2.0 and 2.4 litre Diesel engines as found in: C30, C70, S40, S60, S80, V40, V50, V60, V70, XC60, XC70, XC90.

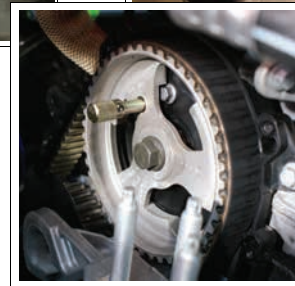
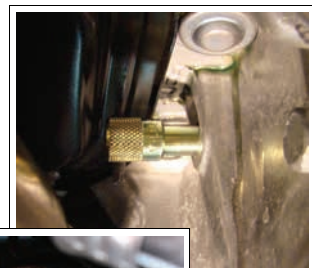
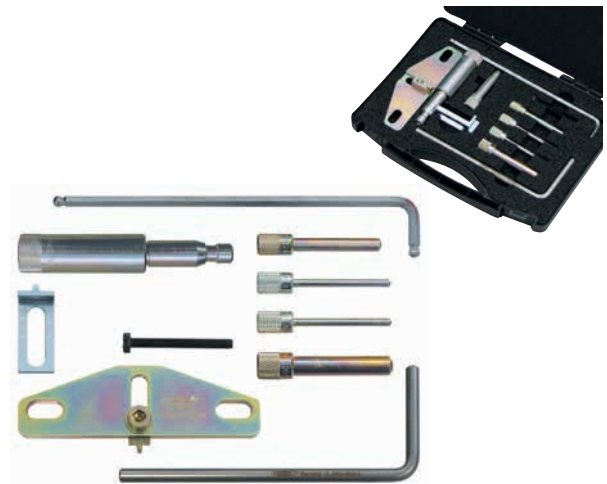
(Engine codes: D4162T, D4164T, D4192T3, D4192T4, D4204T, D4204T2, D5204T, D5204T2, D5204T3, D5204T5, D5244T, D5244T10, D5244T11, D5244T13, D5244T14, D5244T15, D5244T16, D5244T17, D5244T18, D5244T19, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7, D5244T8, D5244T9)

Designed for the locking/positioning of camshafts, crankshaft, timing belt- and auxiliary drive belt (V-ribbed belt) tensioners, and flywheel. The kit also includes a tool to adjust the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0780-10 KA Locking Tool Set, Volvo (Diesel engines)

Part No.	Description	Qty
KL-0280-2202 A	Special Hexagon Socket Key	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 8mm	1
KL-0680-2302 A	Locking Pin (angled)	1
KL-1380-2343	Hex Screw, M6x55mm	1
KL-0780-1001	Locking Tool for Flywheel	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-0780-1002	Locking Pin, Ø 14.9/11mm	1
KL-0780-1003	Locking Pin, Ø 12/10.5mm	1
KL-0780-1090	Plastic Storage Case	1



6

KL-0680-220 B

Set of Locking Pins,

Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDiS; Toyota 1.0 VVT, 1.4 Di, 1.4 HDi; Volvo 1.6 D Diesel engines.

(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTED, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

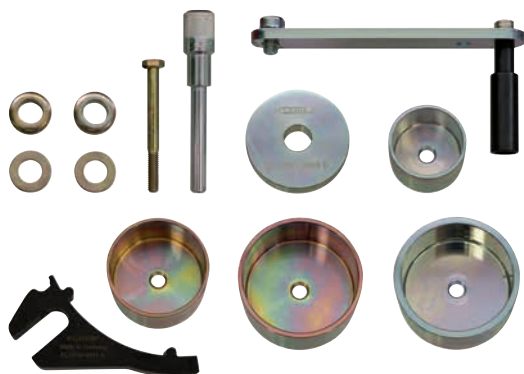
These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1





KL-1280-702 K

Locking Tool Set, Renault

Applicable to Mitsubishi, Nissan, Opel/Vauxhall, Renault and Suzuki 1.9 and 3.0 litre Diesel engines as found in: Renault Clio II, Espace IV, Kangoo, Laguna II, Master II, Megane I / II / III, Scenic I / II / III / RX4, Traffic II; Opel/Vauxhall Movano-A, Vivaro; Mitsubishi Carisma, Space Star; Nissan Interstar, Primastar, Navara; Suzuki Grand Vitara; Volvo S40/V40.

(Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, VG30E)

Designed for the locking/positioning of the crankshaft, injection pump and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-702 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1



6

KL-1280-21 KA

Injection Pump Adjustment Tool, Renault 1.9 D

Applicable to Renault, Mitsubishi, Opel/Vauxhall and Volvo 1.9 litre direct-injection Diesel engines with adjustable injection pump sprocket as found in Renault Megane/Scenic, Kangoo; Mitsubishi Carisma, Space Star; Opel/Vauxhall Arena; Nissan Interstar, Primastar and Volvo S40/V40.

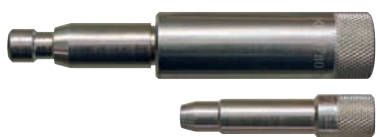
This injection pump adjustment tool is used in conjunction with the KL-0129-1 A tool set and the corresponding locking tools for adjusting the injection pump timing relative to the crankshaft (start-of-delivery setting).

Scope of Delivery:

KL-1280-21 KA Injection Pump Adjustment Tool, Renault 1.9 D

Part No.	Description	Qty
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-0129-2105 A	Adaptor for Bosch Pumps, M10x1 to M8x1	1
KL-1280-2190	Plastic Storage Case	1

(Engine codes: F8Q, F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, D 4192 T, D 4192 T2)



KL-0780-701

Locking Tool Set, Volvo

Applicable to Volvo 2.0 and 2.4 litre Diesel engines as found in: C70, S40, S60, S80, V50, V60, V70, XC60, XC70, XC90.

For the locking/positioning of engine shafts such as camshaft and crankshaft. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0780-701 Locking Tool Set, Volvo

Part No.	Description	Qty
KL-0780-1002	Locking Pin, Ø 14.9/11mm	1
KL-0780-1003	Locking Pin, Ø 12/10.5mm	1

(Engine codes: D5204T, D5204T2, D5204T3, D5204T5, D5244T, D5244T10, D5244T11, D5244T13, D5244T15, D5244T17, D5244T18, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7)

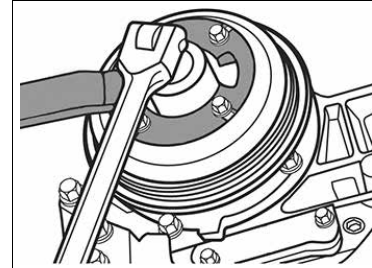
KL-0780-30

Counter-Holding Tool, Crankshaft

Applicable to Ford 2.5 and Volvo 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5, 2.8 and 2.9 litre 4- and 5-cylinder petrol engines, and 2.0 and 2.4 litre 5-cylinder Diesel engines. Fitted to: Ford Focus, Galaxy, Kuga, Mondeo, S-MAX and Volvo C30, C70, S40, S60, S70, S80, V40, V50, V70, XC70, XC90.

(Engine codes: Ford HUBA, HUWA, HYDA, HYDB, JZDA, LCBD; Volvo B4164S, B4184S, B4194T, B4204S, B4204T, B5204T3, B5204T4, B5204T5, B5234FS, B5234T3, B5234T7, B5234T8, B5234T9, B5244S, B5244S2, B5244S4, B5244S5, B5244S7, B5244SG, B5244SG2, B5244T, B5244T2, B5244T3, B5244T4, B5244T5, B5244T7, B5254FS, B5254T, B5254T10, B5254T11, B5254T2, B5254T3, B5254T4, B5254T5, B5254T6, B5254T7, B5254T8, B6284T/T2, B6294S, B6294S2, B6294T, B6304S3, D5204T, D5204T2, D5204T3, D5204T5, D5244T, D5244T10, D5244T11, D5244T13, D5244T14, D5244T15, D5244T16, D5244T17, D5244T18, D5244T19, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7, D5244T8, D5244T9)

This tool is designed to be used for counter-holding the vibration damper while loosening and tightening the crankshaft central screw.



KL-0780-20 KA

Locking Tool Set, Volvo

Applicable to Volvo 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5, 2.8, 2.9 and 3.0 litre TwinCam petrol engines as found in: C30, C70, S40, S40 II, S60, S70, S80, V40, V50, V70, V70 II. (Engine codes: B 4164 S3, B 4184 S2, B 4184 S8, B 4184 S9, B 4184 S11, B 4194 T2, B 4204 S2, B 4204 S3, B 4204 T3)

Designed for the locking/positioning of the flywheel as well as of engine shafts such as camshafts and crankshaft. The kit also includes a tool to position the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.



Scope of Delivery: KL-0780-20 KA Locking Tool Set, Volvo

Part No.	Description	Qty
KL-0180-3030	Locking Pin, Ø 3.0mm	1
KL-0280-2202 A	Setting Gauge for Camshafts	1
KL-0680-15 A	Locking Tool for Camshafts	1
KL-1280-221 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0680-17	Locking Pin for Crankshaft, Ø 5mm	1
KL-0680-18	Locking Pin for Crankshaft, Ø 7.95mm	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-0780-2090	Plastic Storage Case	1



6

KL-0184-061

Reaction Wrench, Ford

Applicable to Ford, Mazda, Volvo 1.3, 1.5, 1.6, 1.8, 2.0 and 2.3 litre engines; as installed in Ford Focus/C-Max, Mondeo, S-Max, Galaxy; Mazda 2, 3, 5, 6, CX-7, MX-5; Volvo C30, S40, V50, V70, S80. (Engine codes: B4184S11, B4184S8, B4204S3, B4204S4, L3 Turbo, LF, LF (MZR DISI), MZ-CD 1.6 (Y6), MZR 1.3 (ZJ), MZR 1.5 (ZY), MZR 1.8 (L8), MZR 2.0 (LF), ZJ, ZY)

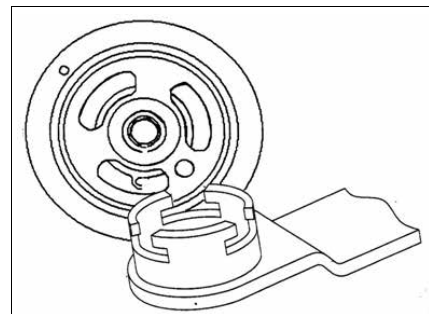
This tool is designed to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw. It is required when replacing timing belts and for engine repairs.

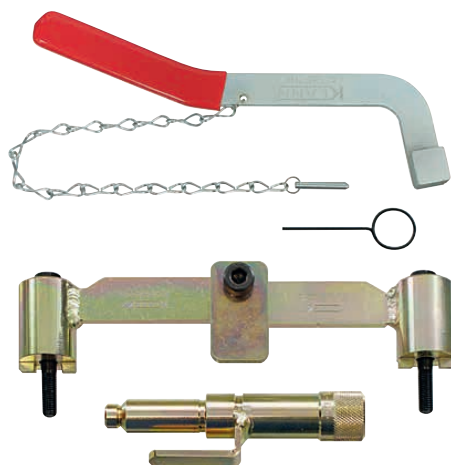
Technical Data:

Overall length (of assembled tool):	754mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm

Scope of Delivery: KL-0184-061 Reaction Wrench, Ford

Part No.	Description	Qty
KL-0184-0610	Reaction Wrench (Base Tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1





KL-1280-22 A

Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

Applicable to Renault and Volvo TwinCam petrol engines.

Renault 2.0 16V (N7Q) and 2.5 20V (N7U) as found in Laguna and Safrane.

Volvo 1.8 16V (B4184 S2/S9), 1.9 T4 (B4194 T2) and 2.0 16V / T (B4204 S2/T3) as found in S40 and V40.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft when changing a timing belt or during engine repairs.

Scope of Delivery:

KL-1280-22 A Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

Part No.	Description	Qty
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-0180-3019	Retaining Pin for Hydraulic Tensioner Pulley, Ø 1.9mm	1
KL-1280-224 A	Tensioner Spanner with Retaining Pin for Auxiliary Belt	1

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KL-0780-22 K

Locking Tool Set, Volvo 3.0, 3.2

Applicable to Volvo 3.0 T6 and 3.2 V6 petrol engines as found in: S60 (from 2011 onwards), S80 II (from 2006 onwards), V60, V70 II (from 2007 onwards), XC60, XC70 II (from 2007 onwards), XC90 (from 2002 onwards).

(Engine codes: B6304T2, B6304T4, B6324S, B6324S2, B6324S4, B6324S5)

Designed for the locking/positioning of camshafts and crankshaft. Also includes a tool to loosen/tighten the central screw of the inlet/exhaust camshaft sprockets. An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0780-22 K Locking Tool Set, Volvo 3.0, 3.2

Part No.	Description	Qty
KL-0780-221	Locking Tool for Camshaft	1
KL-0780-222	Locking Tool for Crankshaft	1
KL-0780-2231	Locking Plate	1
KL-0780-2232	Locking Plate	1
KL-4041-3160	Screwdriver Bit T60, 100mm, 1/2"	1
KL-0780-2290	Plastic Storage Case	1

KL-0780-21 K

Locking Tool Set, Volvo 4.4 V8

Applicable to Volvo 4.4 V8 petrol engines as found in S80 (II), XC90.

(Engine code: B 8444 S)

For the locking/positioning of engine shafts such as camshafts and crankshaft. An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0780-21 K Locking Tool Set, Volvo 4.4 V8

Part No.	Description	Qty
KL-0780-211	Locking Tool for Crankshaft	1
KL-0780-212	Locking Tool for Camshaft (2 pcs.)	1
KL-0780-2190	Plastic Storage Case	1

KL-2380-705 K

Locking Tool Set, Chrysler

Applicable to Chrysler and LDV vehicles equipped with either a 2.5 or 2.8 CRD engine; e.g. Chrysler Grand Voyager, Voyager and LDV Maxus. (Engine codes: R2516C, R2816C5.05A, R2516L, VM39/40B)

Designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner. The kit also contains the necessary tool for retaining the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-2380-705 K Locking Tool Set, Chrysler

Part No.	Description	Qty
KL-2380-7051	Locking Tool for Inlet Camshaft	1
KL-2380-7052	Locking Tool for Exhaust Camshaft	1
KL-2380-7053	Locking Tool for Flywheel	1
KL-2380-7054	Holding Tool for Timing Belt	1
KL-2380-7055	Locking Tool for Flywheel	1
KL-2380-7056	Tensioner Pulley Spanner	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1103	Plastic Storage Case	1



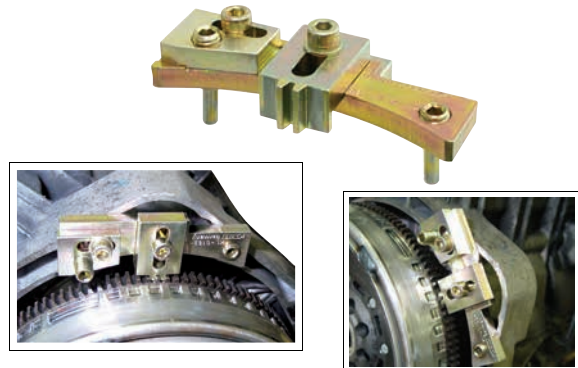
KL-0182-10 A

Flywheel Locking Tool (adjustable)

This tool is designed to lock the flywheel with the gearbox removed. The tool is axially and radially adjustable and, thus, almost universally applicable - simply by using different stud bolts.

Technical Data:

Bolt Ø:	8.5mm
Bolt distance:	92-107mm



KL-0110 A

Holding Wrench

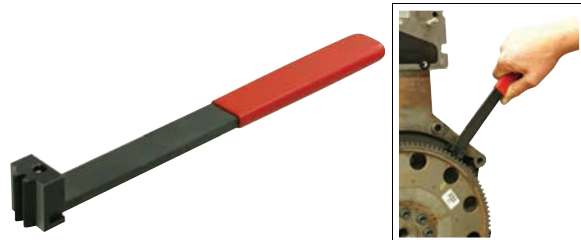
(Universal)

Universal application.

Used for locking flywheels.

Technical Data:

Length:	250mm
Weight:	0.5kg



KL-0220-10 K

Fixing Tool Kit, VW Assembly Carrier

Suitable for use on assembly carriers/subframes found on VW-Audi, Seat and Škoda. For example, fitted to Audi A3 (8P), A4 (8E, 8H), TT (8J); VW EOS (1F), Fox (5Z), Golf Plus (1K), Golf V (1K), Jetta (1K), Passat (3C), Passat CC (357), Polo (9N), Scirocco (137), T5 (7J, 7H, 7E, 7F), Touareg (7C), Touran (1T, 9R); Seat Alhambra (71), Altea (5P), AlteaXL (5P), Ibiza (6J), Ibiza / Córdoba (6L), Leon (1P), León (5F), Toledo (5P), Toledo (KG3).

The tools allow for the professional installation/adjustment of assembly carriers (with fastening screws having an M12x1.5 or M14x1.5 thread). Necessary after maintenance work/repairs where the assembly carrier has been loosened/released, for example, after the replacement of silentblobs, wishbone etc.

Scope of Delivery: KL-0220-10 K Fixing Tool Kit, VW Assembly Carrier

Part No.	Description	Qty
KL-0220-101	Fixing Bolt, M12x1.5	4
KL-0220-102	Fixing Bolt, M14x1.5	4
KL-0220-1090	Plastic Storage Case	1



Technical Data:

Max. tightening torque:	20Nm
Fixing bolt thread (KL-0220-101):	M12x1.5
Fixing bolt thread (KL-0220-102):	M14x1.5
Length:	50mm
Drive:	6mm (hex socket)



KL-0146-20

(Patented)

Engine Support Device

Universally applicable device for supporting engines in vehicles.

Working on the timing belt side engine mount, for example when changing a timing belt, replacing a water pump etc., is day-to-day work in the garage. Almost every mechanic knows firsthand the problems that can occur when it comes to loosening the side engine mount of transverse-mounted engines. Here, the use of a supporting device, engine crane or engine stand is indispensable. Such devices, however, can make work even more difficult since the engine is no longer properly secured and access will be very limited or sometimes even impossible. The innovative **KL-0146-20** engine support device from GEDORE Automotive now offers the perfect solution to these problems. The special design of the device with its clamping hook assembly featuring large and individually adjustable clamping hooks with wide supporting surfaces, the unique fastening mechanism enabling the engine support to be fixed to the vehicle frame, and the cleverly designed support plate assembly with its adjustable tilting support pad (100 mm) ensure safe and solid support of the engine. This allows the mechanic to conveniently work on the engine from the top as well as from the bottom, with the engine always safely supported and secured against the risk of dropping - even when performing tasks such as turning engine shafts, loosening and tightening fastening screws etc. The clamping hooks are 360° rotatable and can be arranged universally to fit virtually any vehicle width. Once the device clamping hooks have been correctly positioned on the vehicle frame, these can easily be tightened to securely fix the support assembly to the vehicle. This prevents the engine support device from any slipping or dropping. The ingenious **KL-0146-20** engine support device from GEDORE Automotive offers you a maximum of safety and functionality combined with a wide range of application possibilities - without the need for additional accessories such as vehicle-specific adaptors etc.

Technical Data:

Max. load capacity:	100-300kg
Overall length:	1,100mm
Clamping hook width:	50mm
Clamping hook clamping range:	approx. 70mm
Max. height offset between clamping hooks:	approx. 90mm
Support plate height adjustment:	120mm
Weight:	16.5kg

Scope of Delivery: KL-0146-20 Engine Support Device

Part No.	Description	Qty
KL-0146-202	Clamping Hook Assembly	2
KL-0146-203	Support Plate Assembly	1
KL-0146-2011	Bar	1
KL-0146-2012	Bar (labelled)	1
KL-0146-2013	Spacer Sleeve	2
KL-0146-2014	Hex Screw, M8x95mm	2
KL-0035-0003	Hex Nut, M8	2
KL-0035-0004	Washer, Ø 8mm	2

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KL-0183-50

(Universal)

(Patented)

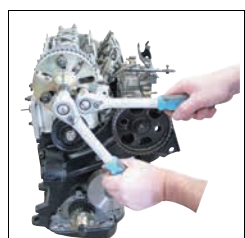
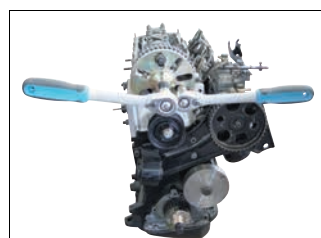
Timing Belt Sprocket Extractor and Reaction Tool

Universal application - Two tools in one. The tool can be used for loosening the central fixing screw as well as for removing the sprocket. Suitable for all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm. Hole diameters should not be less than 20mm.

The tool is used to hold the pulley in position while loosening/tightening the central fixing screw. It is also designed to prevent the pulley from rotating while removing the sprocket. For this, any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.

Scope of Delivery: KL-0183-50 Timing Belt Sprocket Extractor and Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-531	Hook, Ø 20mm	3
KL-0183-532	Hook, Ø 26mm	3
KL-0350-0009	Shoulder Nut, M10	3
KL-0183-540	Pressure Unit	1



KL-0183-51 A (Patented) Timing Belt Sprocket Extractor and Reaction Tool with 2 Hooks

Applicable to VW-Audi, Seat, Škoda, Opel/Vauxhall, Ford, BMW, Mercedes, Peugeot, Citroën, Renault, Fiat, Japanese vehicles etc.

Universal application - Two tools in one.

Very useful tool for loosening the central fixing screw and for removing the sprocket. Suitable for all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm. Hole diameters should not be less than 16.5mm. The tool is used to hold the pulley in position while loosening/tightening the central fixing screw. It is also designed to prevent the pulley from rotating while removing the sprocket. For this, any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.

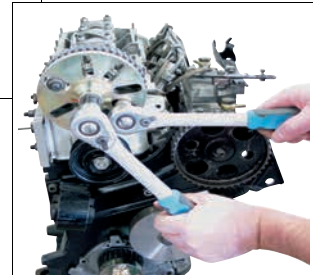
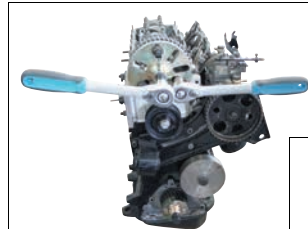
Scope of Delivery:

KL-0183-51 A Timing Belt Sprocket Extractor and Reaction Tool with 2 Hooks

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-533	Hook, Ø 16.5mm	2
KL-0350-0009	Shoulder Nut, M10	2
KL-0183-540 A	Pressure Unit	1

Accessories:

KL-0183-531 Hook, Ø 20mm
KL-0183-532 Hook, Ø 26mm



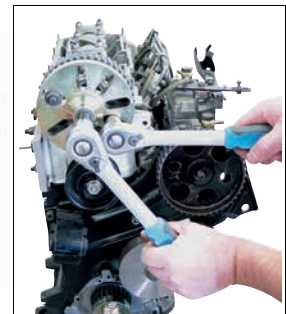
KL-0183-52 (Patented) Timing Belt Sprocket Extractor/Reaction Tool

Applicable to injection pump and timing belt sprockets as found in Nissan, Renault, Dacia and Suzuki 1.5 dCi/DDiS Common Rail Diesel engines. Fitted, e.g., to Renault Clio II, Clio III, Fluence, Kangoo, Kangoo II, Laguna III, Megane II, Megane III, Scenic/Grand Scenic II, Scenic/Grand Scenic III, Logan, Logan MCV, Modus, Modus/Grand Modus II, Twingo II; Dacia Duster, Logan Pick-up, Logan Van/Express; Suzuki Jimny; Nissan Cube, Juke, Kubistar, Micra, Note, NV200, Qashqai, Qashqai 2, Tiida.

Suitable for use on perforated injection pump and timing belt sprockets with a pitch circle diameter of from 70-100mm. The hole diameter should not be less than 16.5mm; also suitable for slotted holes with a width of 15mm. In conjunction with a 1/2" reversible ratchet, the timing belt sprocket extractor/reaction tool is used to hold the injection pump-/ timing belt sprocket in position while loosening/tightening the central fixing screw. It also allows for the removal of the timing belt sprocket from the camshaft/injection pump shaft without risk of damage. An indispensable tool set when changing the coolant pump allowing the user to remove the injection pump sprocket located in front of the pump.

Scope of Delivery: KL-0183-52 Timing Belt Sprocket Extractor/Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-534	Hook (oval)	2
KL-0183-540 A	Pressure Unit	1
KL-0350-0009	Hex Shoulder Nut, M10	2



(Engine codes: K9K, K9K 262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 838, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898)

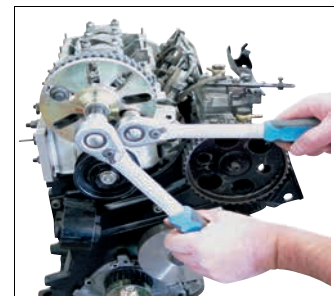
KL-0183-550 (Patented) Upgrade Kit

Required, for example, to hold the injection pump sprocket in position on VW T4, Transporter and LT (with 2.3, 2.4 or 2.5 litre 5-cylinder Diesel engines).

Designed to complement our timing belt sprocket extractors **KL-0183-50, KL-0183-51 A** and **KL-0183-52**.

Scope of Delivery: KL-0183-550 Upgrade Kit

Part No.	Description	Qty
KL-0183-533	Hook, Ø 16.5mm	2
KL-0183-5404	Pressure Piece	1





KL-0183-70 K

Tool Kit for V-Ribbed Belts

Applicable to BMW 1 Series (E81, E87), 3 Series (E46, E90, E91, E92, E93), 5 Series (E60, E61), 6 Series (E63, E64), 7 Series (E65, E66), X3 (E83), X5 (E53, E70), X6 (E71, E72); Chrysler Voyager III (RG); Citroën C2 (JM), C3 (FC, HB), C4 (LC, LA, UA, UD), Jumper; Dacia Logan / MCV; Fiat Doblo (119, 223), Ducato (244), Fiorino, Linea, Palio (178BX), Stilo (192), Strada (178E); Ford C-Max, Fiesta V (JH, JD), Focus II / C-Max (DA, DAW), Fusion (JU); Mazda 3 (BK12, BK14), 5 (CR19); Peugeot 206 CC (2D), 207 (WA, WC, WD), 307 (3A/C, 3E, 3H), Boxer; Renault Logan (LS); Škoda Fabia; Volvo C30, S40 II (MS), V50 (MV); VW Polo (9N).

This tool set is indispensable for the quick and easy removal and installation of the newly developed elastic V-ribbed belts. Without the use of this tool, the professional removal and installation of these belts is almost impossible as the belt guide has no tensioning element and, therefore, releasing the tension on the belt is not possible.

Scope of Delivery: KL-0183-70 K Tool Kit for V-Ribbed Belts

Part No.	Description	Qty
KL-0183-701	V-Ribbed Belt Removal Tool	1
KL-0183-702	V-Ribbed Belt Installation Tool	1
KL-0183-7090	Plastic Storage Case	1



KL-0183-71 K

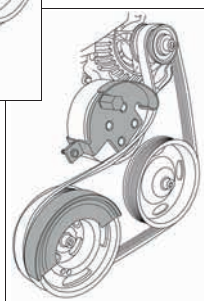
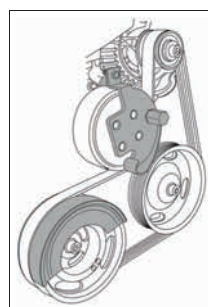
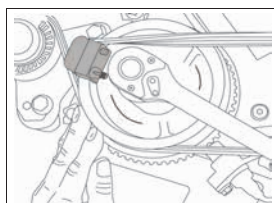
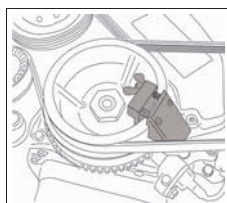
Tool Kit for Elastic V-Ribbed Belts

Applicable to BMW, Ford, Mazda, Volvo etc; e.g. BMW 3 Series E90, X3 E83; Ford Focus 1.4 16V (04-12), Focus C-Max 1.6 16V (2004-12), Fiesta 1.25 16V and 1.4 16V (2002-08), Fusion 1.6 16V (2002-08); Mazda 2 1.2 16V (2002-06), Volvo C30, S40, V50 1.6 16V (2005 onwards); engine codes: BMW: M47, M57; Ford: ASDA*, ASDB*, HWDA*, HWDB*, HXDA*, HXDB*, SHDA*, SHDB*, SHDC*, SIDA*, F8JA, F8JB, FUJA, FUJB, FXJA, FXJB, M7JA, M7JB, SPJA, SPJC, FYJA, FYJB; Mazda: FUJA, FUJB, F8JA, F8JB, FXJA, FXJB, FYJA; Volvo: B4164 S3. (*with double pulley on the crankshaft on which the belt needs to be fitted via the water pump)

This tool set is indispensable for the quick and easy removal and installation of elastic V-ribbed belts. Without the use of this tool, the professional removal and installation of these belts is almost impossible as the belt guide has no tensioning element and, therefore, releasing the tension on the belt is not possible.

Scope of Delivery: KL-0183-71 K Tool Kit for Elastic V-Ribbed Belts

Part No.	Description	Qty
KL-0183-711	Belt Installation Tool, Ford, Volvo	1
KL-0183-712	Belt Guide Tool, Ford, Volvo	1
KL-0183-701	V-Ribbed Belt Removal Tool	1
KL-0183-702	V-Ribbed Belt Installation Tool	1
KL-0183-7190	Plastic Storage Case	1



KL-0183-710 K

Tool Kit for Elastic V-Ribbed Belts

Applicable to vehicles equipped with either a 1.4 or 1.6 litre Ford engine with double pulley on the crankshaft on which the belt needs to be fitted via the water pump; such as Ford Focus, Focus C-Max; Volvo C30, S40, V50. (Engine codes: ASDA, ASDB, B4164S3, HWDA, HWDB, HXDA, HXDB, SHDA, SHDB, SHDC, SIDA)

This tool set is designed for the quick and easy installation of elastic V-ribbed belts.

Scope of Delivery: KL-0183-710 K Tool Kit for Elastic V-Ribbed Belts

Part No.	Description	Qty
KL-0183-711	Belt Installation Tool, Ford, Volvo	1
KL-0183-712	Belt Guide Tool, Ford, Volvo	1
KL-0183-7190	Plastic Storage Case	1

KL-0284-184 K

Alternator and Belt Tool Set, in a Plastic Storage Case

Universally applicable, e.g. to: VW-Audi, Seat, Škoda, BMW, Alfa Romeo, Dacia, Fiat, Ford, Mazda, Mercedes, Peugeot, Porsche, Renault, Toyota, Volvo, Opel/Vauxhall etc.

The **KL-0284-184 K** alternator and belt tool set allows for the easy and professional loosening/tightening of hard-to-access screws on fan clutches, pulleys/tensioner pulleys. The kit also includes tools for the removal/installation of overrunning alternator pulleys. An indispensable tool set, for example, when changing an alternator or pulley, as well as when removing/installing elastic ribbed V-belts.

Scope of Delivery:

KL-0284-184 K Alternator and Belt Tool Set, in a Plastic Storage Case

Part No.	Description	Qty
KL-0284-184 E	Alternator and Belt Tool Set, in a Foam Insert	1
KL-0186-1419-3	Foam Lid Insert, Width 40mm	1
KL-0186-1419-1	Plastic Storage Case	1

Scope of Delivery:

KL-0284-184 E Alternator and Belt Tool Set, in a Foam Insert

Part No.	Description	Qty
KL-0284-1902	Union Nut (Multi-Tooth), 33 Teeth	1
KL-0284-2702	Union Nut, Size (waf) 28mm	1
KL-0284-4202	Union Nut (Multi-Tooth), 32 Teeth	1
KL-0284-2601	Screwdriver Bit Socket, Size (waf) 10mm	1
KL-0284-2811	Screwdriver Bit Socket, Size (waf) 6mm	1
KL-0284-2821	Screwdriver Bit Socket, Size (waf) 8mm	1
KL-0284-2831	Screwdriver Bit Socket, Size (waf) 10mm	1
KL-0284-40	Alternator Combination Socket, T50	1
KL-0284-41	Alternator Combination Socket, XZN-M10	1
KL-0284-3901	Union Nut, Size (waf) 17mm	1
KL-0284-3902	Union Nut with 3 Pins	1
KL-0284-2801	Screwdriver Bit Socket, XZN-M10	1
KL-0284-2901	Screwdriver Bit Socket, T50	1
KL-0366-15 A	Special Wrench Set	1
KL-0149-131	Pin-Type Face Spanner, 14-100mm, 5 Pins	1
KL-0183-701	V-Ribbed Belt Removal Tool	1
KL-0183-702	V-Ribbed Belt Installation Tool	1
KL-0183-711	Belt Installation Tool, Ford, Volvo	1
KL-0183-712	Belt Guide Tool, Ford, Volvo	1
KL-0284-1849-2	Foam Insert	1



KL-0284-184 E

6

KL-0284-18

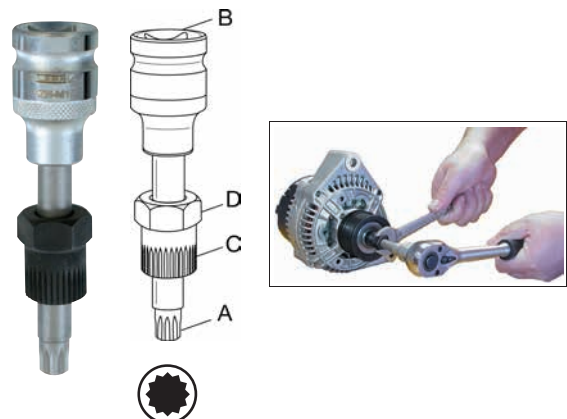
Alternator Combination Socket

Suitable for use on alternators with overrunning alternator pulley. Applications: VW-Audi, BMW, Ford, Škoda, Mercedes, Opel/Vauxhall, Porsche, Renault etc.

This two-part alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the XZN socket insert bit (10mm) is needed to lock the pulley shaft during the loosening process.

Technical Data:

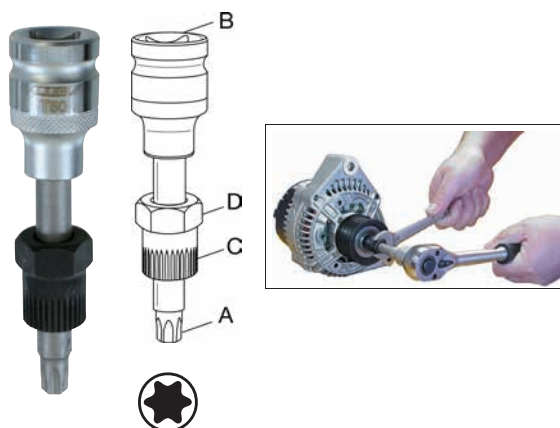
Socket Insert (A):	XZN - M10
Drive (B):	1/2" square
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	156g



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet





KL-0284-19

Alternator Combination Socket

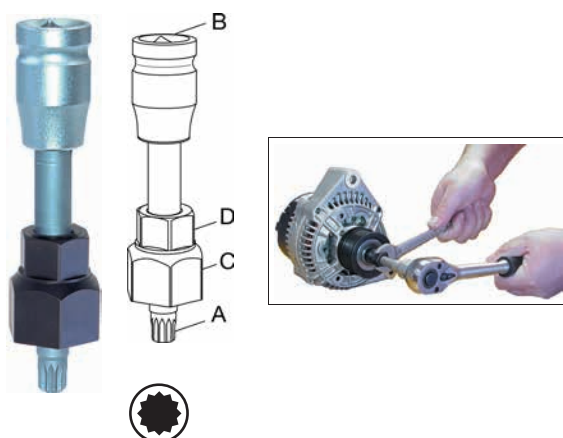
For example, suitable for use on BMW 1 Series (F20); Mercedes A-Class, C-Class; Renault 1.9 DTI.

This two-part alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the Torx® T50 socket insert bit is needed to counter-hold the pulley shaft during the loosening process.

Technical Data:

Socket Insert (A):	Torx® T50
Drive (Socket Insert) (B):	1/2"
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	156g

* = reg. trademark of Acument Intellectual Properties, LLC. USA



KL-0284-37

Alternator Combination Socket

Suitable for use on the rubber-mounted alternator pulleys installed in Renault and Dacia 1.4 and 1.6 litre petrol engines.

Applications: Renault Clio, Laguna, Mégane, Scénic, and Dacia Logan.

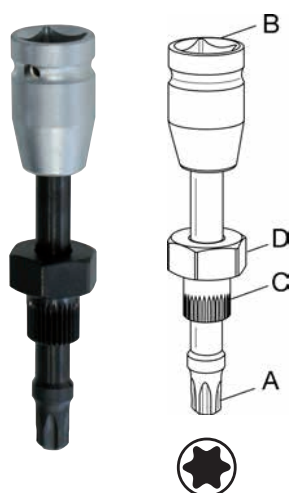
This two-part alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley.

Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the pulley shaft needs to be locked by means of the 10mm XZN multi-spline insert bit during the loosening process.

Technical Data:

Socket Insert (A):	XZN - M10
Drive (Socket Insert) (B):	1/2"
Union nut with hexagon (C):	28mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	110g

6



KL-0284-40

Alternator Combination Socket, T50

Suitable for use on alternators with overrunning alternator pulley, as found in: Opel/Vauxhall, Fiat, Alfa.

This alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley.

Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shafts need to be locked by means of the Torx® T50 socket insert bit during the loosening process.

Technical Data:

Socket insert (A):	Torx® T50
Drive (Socket insert) (B):	1/2"
Union nut with 31 teeth, outer Ø (C):	14mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	140g

* = reg. trademark of Acument Intellectual Properties, LLC. USA

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm



KL-0284-42

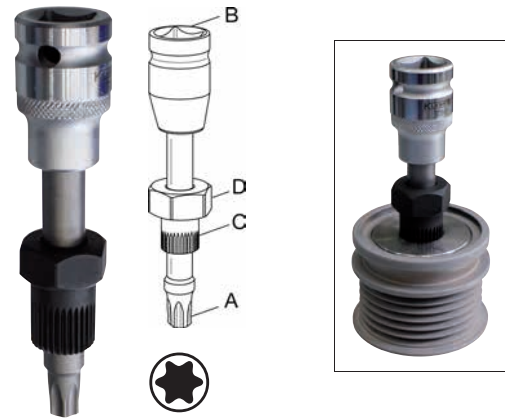
Alternator Combination Socket, T50

Suitable for use on alternators with overrunning alternator pulley, as found in: VW-Audi, Seat, Škoda etc.

This alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shaft needs to be locked by means of the Torx® T50 socket insert bit during the loosening process.

Technical Data:

Socket insert (A):	Torx® T50
Drive (Socket insert) (B):	1/2"
Union nut with 32 teeth outer Ø (C):	17mm
Drive (Union nut) (D):	21mm
Length (G):	110mm



KL-0284-41

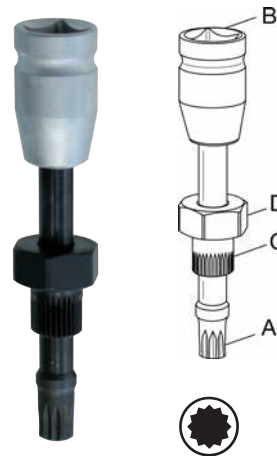
Alternator Combination Socket, XZN-M10

Suitable for use on alternators with overrunning alternator pulley, as found in: Opel/Vauxhall, Fiat, Alfa.

This alternator combination socket is designed for the removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shaft needs to be locked by means of the XZN-M10 socket insert bit during the loosening process.

Technical Data:

Socket insert (A):	XZN-M10
Drive (Socket insert) (B):	1/2"
Union nut with 31 teeth outer Ø (C):	14mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	140g



6

KL-0284-28

Alternator Combination Socket

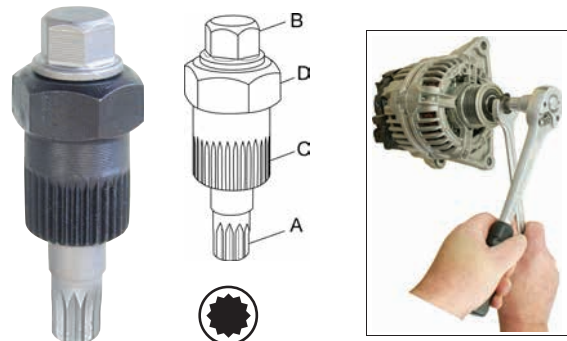
Suitable for use on alternators with overrunning alternator pulley, as found in VW-Audi, BMW, Ford, Škoda, Mercedes, Opel/Vauxhall, Porsche, Renault, etc.

This short two-part alternator combination socket allows for the easy removal and installation of a overrunning alternator pulley in-situ on the vehicle without the need for removing the alternator.

Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the pulley shaft needs to be locked by means of the 10mm XZN multi-spline insert during the loosening process.

Technical Data:

Socket insert (A):	XZN-M10
Drive Size (waf) (B):	12mm
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	64mm
Weight:	95g



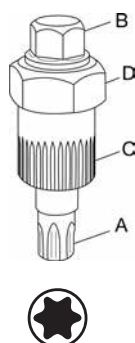
Accessories (on demand):

7 R - Combination Ratchet Spanner



4549-05 CODE:1545140 - Torque Wrench TORCOFIX K 3/8" 5-50Nm





KL-0284-29

Alternator Combination Socket

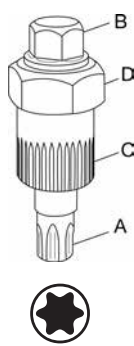
For example, suitable for use on BMW 1 Series (F20), X3 (F25); Mercedes A-Class, Renault 1.9 DTI.

This short two-part alternator combination socket allows for the easy removal and installation of a overrunning alternator pulley in situ on the vehicle without the need for removing the alternator. Since the pulley cannot be locked from the outside while loosening or tightening the central nut, the pulley shaft needs to be counter-held means of the Torx® T50 socket insert bit during the loosening process.

Technical Data:

Socket Insert (A):	Torx® T50
Drive (Socket Insert) (B):	12mm
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	64mm
Weight:	95g

* = reg. trademark of Acument Intellectual Properties, LLC. USA



KL-0284-44

Alternator Combination Socket, T50

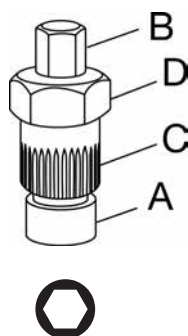
Suitable for use on alternators with overrunning alternator pulley, as found in: VW-Audi, Seat, Škoda etc.

This alternator combination socket is designed the removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shaft needs to be locked by means of the Torx® T50 socket during the loosening process.

Technical Data:

Socket bit insert (A):	Torx® T50
Drive (socket bit insert) (B):	waf 12mm
Union nut with 32 teeth, outer Ø (C):	17mm
Drive (Union nut) (D):	21mm
Length (G):	64mm

6



KL-0284-26

Alternator Combination Socket (waf 10mm)

Suitable for use on alternators with overrunning alternator pulley as found on Volvo etc.

This tool is required for the removal and replacement of overrunning alternator pulleys in situ on the vehicle. No need to remove the alternator from the vehicle using this socket. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the socket insert (waf 10mm) is needed to lock the pulley shaft during the loosening process.

Technical Data:

Socket insert (external hexagon) (A):	10mm
Drive (Socket insert) (B):	10mm
Union nut with 33 teeth, outer Ø (C):	Ø 19.5mm
Drive (Union nut) (D):	21mm
Length:	49mm
Weight:	95g

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm



7 R - Combination Ratchet Spanner



4549-05 CODE:1545140 - Torque Wrench TORCOFIX K 3/8" 5-50Nm



KL-0284-27

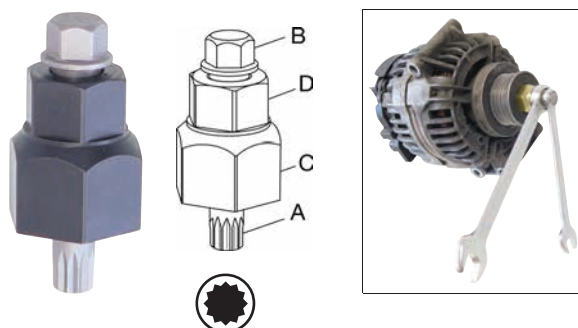
Alternator Combination Socket

Suitable for use on the rubber-mounted alternator pulleys installed in Renault and Dacia 1.4 and 1.6 litre petrol engines; as found on Renault Clio, Laguna, Megane, Scenic and Dacia Logan.

This short two-part alternator combination socket allows for the easy removal and installation of a overrunning alternator pulley in situ on the vehicle without the need for removing the alternator. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the 10mm XZN multi-spline insert is needed to lock the pulley shaft during the loosening process.

Technical Data:

Socket Insert (A):	XZN-M10
Drive (B):	12mm
Hexagonal Union Nut (C):	28mm
Drive (Union Nut) (D):	21mm
Length:	64mm
Weight:	95g



KL-0284-38

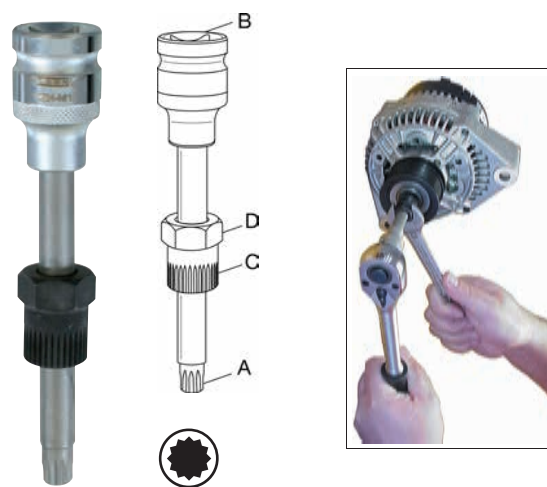
Alternator Combination Socket

Suitable for use on alternators with overrunning alternator pulleys as found on: VW-Audi, BMW, Ford, Škoda, Mercedes, Opel/Vauxhall, Porsche, Renault etc. Essential tool for pulleys that are hard to reach.

This two-part alternator combination socket allows for the easy removal and installation of a overrunning alternator pulley in situ on the vehicle without the need for removing the alternator. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the 10mm XZN multi-spline insert is needed to lock the pulley shaft during the loosening process.

Technical Data:

Socket Insert (A):	XZN-M10
Drive (Socket Insert) (B):	1/2"
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	140mm
Weight:	156g



KL-0284-39

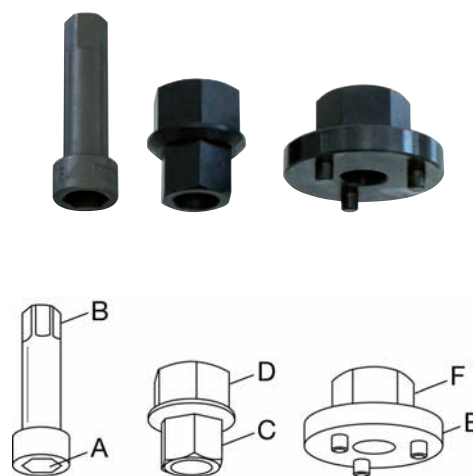
Alternator Combination Socket

Suitable for use on alternators with overrunning alternator pulley as found on: Volvo C30, Toyota, etc.

This three-part alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the socket insert bit (waf 10mm) is needed to lock the pulley shaft during the loosening process.

Technical Data:

Socket (external hexagon) (A):	10mm
Drive (Socket) (B):	10mm
Union nut (C):	17mm
Drive (union nut) (D):	21mm
Union nut with 3 pins (E):	21mm
Drive (union nut) (F):	21mm
Overall length	49mm



Scope of Delivery: KL-0284-39 Alternator Combination Socket, Size (waf) 10mm

Part No.	Description	Qty
KL-0284-3901	Union Nut, Size (waf) 17mm	1
KL-0284-3902	Union Nut, with 3 Pins	1
KL-0284-2601	Screwdriver Bit Socket, Size (waf) 10mm	1



KL-0284-281

Alternator Combination Socket

Suitable for use on alternators with overrunning alternator pulley.

This socket allows for the removal and installation of overrunning alternator pulleys in situ on the vehicle without the need for removing the alternator.

Technical Data:

Socket insert (internal hexagon):	6mm
Drive (socket insert):	12mm
Union nut with 33 teeth, outer Ø:	19.5mm
Drive (union nut):	21mm
Length:	64mm
Weight:	95g



KL-0284-43

Alternator Combination Socket

Suitable for alternators with overrunning alternator pulley, as found in: VW-Audi, Seat, Škoda etc.

This alternator combination socket is designed for the removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shaft needs to be locked by means of the 8mm hexagon socket during the loosening process.

Technical Data:

Socket insert (internal hexagon) (A):	8mm
Drive (Socket insert) (B):	12mm waf
Union nut with 32 teeth outer Ø (C):	17mm
Drive (Union nut) (D):	21mm
Length (G):	64mm

6



KL-0284-282

Alternator Combination Socket

Suitable for use on alternators with overrunning alternator pulley.

This socket allows for the removal and installation of overrunning alternator pulleys in situ on the vehicle without the need for removing the alternator.

Technical Data:

Socket insert (internal hexagon):	8mm
Drive (socket insert):	12mm
Union nut with 33 teeth, outer Ø:	19.5mm
Drive (union nut):	21mm
Length:	64mm
Weight:	95g



KL-0284-283

Alternator Combination Socket

Suitable for use on alternators with overrunning alternator pulley.

This socket allows for the removal and installation of overrunning alternator pulleys in situ on the vehicle without the need for removing the alternator.

Technical Data:

Socket insert (internal hexagon):	10mm
Drive (socket insert):	12mm
Union nut with 33 teeth, outer Ø:	19.5mm
Drive (union nut):	21mm
Length:	64mm
Weight:	95g

KL-0183-31.. V-Ribbed Belt Tensioner Tools

This tool is required for pre-tensioning the auxiliary belt tensioner when removing and installing the belt in situ on the vehicle. Particularly suitable for use in confined spaces.

KL-0183-3110 V-Ribbed Belt Tensioner Tool E10

Universal application.

Technical Data:

Size:	Torx® E10
Length:	550mm
Weight:	420g

KL-0183-3114 V-Ribbed Belt Tensioner Tool E14

Tool is universally applicable, for example, to Opel/Vauxhall 1.0 12V, 1.2 and 1.4 16V TwinCam petrol engines.

Technical Data:

Size:	Torx® E14
Length:	550mm
Weight:	420g

KL-0183-3118 V-Ribbed Belt Tensioner Tool E18

Tool is universally applicable, for example, to Vauxhall/Opel 1.0 12V, 1.2 and 1.4 16V TwinCam petrol engines.

Technical Data:

Size:	Torx® E18
Length:	550mm
Weight:	420g



Torx® = registered trademark of Acument Intellectual Properties, LLC. USA

KL-0183-2 Wrench Set

Universal application.

Consists of:

KL-0183-20 Special Socket Wrench with Socket Set

Indispensable tools when removing and replacing V-belts and timing belts that are tensioned via an automatic tensioner pulley. The socket wrench set **KL-0183-20** enables the spring-loaded tensioner pulley to be tensioned and, as a result, the tension on the V-belt or on the timing belt to be released. This tool can be used for hard-to-access areas where ratchets and spanners will not reach. Suitable for tensioner pulleys with 13mm, 15mm, 16mm, 18mm hex and both 3/8" and 1/2" square drive sizes.

KL-0183-21 Belt Mounting Tool

This tool is allows for the easy and trouble-free positioning of a V-ribbed belt on the pulleys. Specially designed for use in confined spaces.

Scope of Delivery: KL-0183-2 Wrench Set

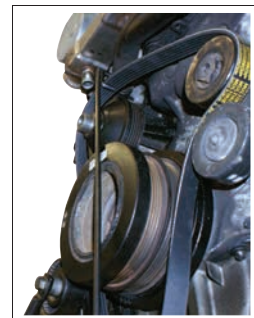
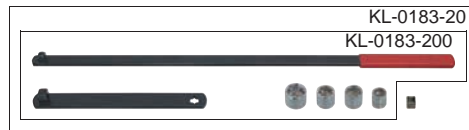
Part No.	Description	Qty
KL-0183-20	Special Socket Wrench with Socket Set	1
KL-0183-21	Belt Mounting Tool	1

Scope of Delivery: KL-0183-20 Special Socket Wrench with Socket Set

Part No.	Description	Qty
KL-0183-200	Special Socket Wrench with Socket Set	1
KL-0183-2003	Adaptor 3/8" to 1/2"	1

Scope of Delivery: KL-0183-200 Special Socket Wrench with Socket Set

Part No.	Description	Qty
KL-0183-2001	Wrench, 580mm long, with 3/8" drive	1
KL-0183-2002	Extension, 230mm long mit 3/8" drive	1
KL-0183-2013	Socket with Hexagon, waf 13mm	1
KL-0183-2015	Socket with Hexagon, waf 15mm	1
KL-0183-2016	Socket with Hexagon, waf 16mm	1
KL-0183-2018	Socket with Hexagon, waf 18mm	1



Technical Data KL-0183-20 / KL-0183-200:

Weight:	1.2kg
Length of wrench:	580mm
Length of extension:	230mm
Drive:	3/8"



Technical Data:

Length:	450mm
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Scope of Delivery:

KL-0366-15 Special Wrench Set

Part No.	Description	Qty
KL-0366-100	Special Wrench, 8mm drive	1
KL-0366-10	Hexagon Socket Insert, 10mm	1
KL-0366-20	Hexagon Socket Insert, 8mm	1
KL-0366-30	Torx® Insert, T45	1
KL-0366-111	Torx® Insert, T60	1
KL-0366-121	Torx® Insert, T50	1
KL-0366-131	Torx® Insert, T60x40mm	1

* = reg. trademark of Acument Intellectual Properties, LLC. USA

KL-0366-15 A Special Wrench Set

Universal application.

Designed to loosen and tighten hard-to-reach screws on fan clutch, pulley, tensioner etc.

Application examples:

Use wrench in conjunction with the **KL-0366-10** hexagon socket insert 10mm for the Mercedes engines M102, M103, OM601, OM602, OM603, OM605 and OM606. For loosening the screws on compressor pulleys.

Use wrench in conjunction with the **KL-0366-20** hexagon socket insert 8mm for the Mercedes engines M102, M103, OM601, OM602, OM603, OM605 and OM606. For loosening and tightening the fan clutch and pulley at the water pump.

Use wrench in conjunction with the **KL-0366-30** Torx® socket insert T45 for the Renault 2.2 Diesel engines (G8T), e.g. Espace, Laguna, Safrane etc. When removing and installing a V-belt, the automatic tensioner pulley needs to be tensioned by means of the special wrench so as to release the tension on the V-belt.

Use wrench in conjunction with the **KL-0366-111** Torx® socket insert T60 for the BMW 5-Series (E60) 2.0 (M54) petrol engines and Mercedes C-Class (W203) 1.8 (OM271) petrol engines etc.

When removing and installing a V-ribbed belt, the automatic tensioner pulley needs to be tensioned by means of the special wrench so as to release the tension on the V-ribbed belt.

Use wrench in conjunction with the **KL-0366-121** Torx® socket insert T50 for the Renault 1.4 and 1.6 TwinCam petrol engines (engine code: K4J, K4M) as found in: Clio III, Megane / Scenic II, Laguna II, Modus and Kangoo.

For removing and installing the idler pulley, for example, when replacing a timing belt or performing an engine repair.

Use wrench in conjunction with the **KL-0366-131** Torx® socket insert T60x40mm for the VW-Audi 2.7 and 3.0 V6 TDI Diesel engines, e.g. Audi A4, A5, A6, A8, Q5 and Q7; VW Phaeton and Touareg.

For removing and installing the idler pulley, for example, when replacing a timing belt or performing an engine repair.

6

KL-0366-4 Pulley Spinning Tool

Applicable to Mercedes, VW-Audi, BMW, Ford, Opel/Vauxhall, Peugeot, Renault, Rover, Volvo, Japanese passenger cars etc.

Used for turning the engine. The tool can be adjusted to different pulley sizes.

Technical Data:

Length:	325mm
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Attention:

The **KL-0366-4** is **not** designed to counter-hold shafts.



KL-0184-011 E

Counter-Holding Tool Kit, in a Foam Insert

Universally applicable, e.g. to: VW-Audi, Seat, Škoda 1.2, 1.4, 1.6, 1.8, 2.0, 2.3, 2.4, 2.5, 2.8, 3.2, 3.6, 4.0, 6.0; Opel/Vauxhall, Fiat, Alfa Romeo 2.2 16V and Ford, Mazda, Volvo 1.3, 1.5, 1.6, 1.8, 2.0, 2.3 litre petrol and Diesel engines respectively. (Engine codes: VW-Audi, Seat, Škoda: AFK, AGZ, AHW, AJA, APE, AQN, AQQ, ARC, ARR, ASY, ATN, AUA, AUB, AUE, AUS, AVY, AWY, AXP, AXU, AXZ, AYL, AYT, AZD, AZQ, AZZ, BAA, BAD, BAG, BAN, BAP, BBM, BBY, BBZ, BCA, BCB, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHK, BHL, BHT, BJJ, BJK, BJL, BJM, BJN, BJS, BKG, BKJ, BKK, BKL, BKY, BKY, BLF, BLG, BLN, BLP, BMD, BME, BMJ, BML, BMV, BMX, BMY, BRJ, BRK, BRN, BRP, BSB, BTE, BTS, BTT, BUB, BUD, BUD, BWK, BWS, BXW, BYT, BZB, BZG, CABA, CABB, CABD, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAWA, CAWB, CAXA, CAXC, CBFA, CBRA, CBZA, CBZB, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDGA, CDHA, CDHB, CDNB, CDNC, CDND, CEBA, CEBB, CECA, CECB, CESA, CETA, CFKA, CGGA, CGGB, CGPA, CGPB, CGYA, CHFA, CHFB, CKMA, CMAA; Opel/Vauxhall, Fiat, Alfa Romeo: Z22SE, Z22YH, 194A1.000, 939A5.000; Ford, Mazda, Volvo: B4184S11, B4184S8, B4204S3, B4204S4, L3 Turbo, LF, LF (MZR DISI), MZ-CD 1.6 (Y6), MZR 1.3 (ZJ), MZR 1.5 (ZY), MZR 1.8 (L8), MZR 2.0 (LF), ZJ, ZY)

The **KL-0184-011 E** counter-holding tool kit is needed to counter-hold crankshaft pulleys, as well as timing belt sprockets/crankshaft sprockets while loosening/tightening the crankshaft/camshaft central screw.

The special **KL-0184-0119** foam insert is designed to keep the tools of the **KL-0184-011 E** counter-holding tool kit always properly organised and well protected in the **KL-4999-121** workshop trolley. Thanks to this ingenious tool management system, tools can be found quickly and easily and missing tools identified at a glance. As a result, repairs can be carried out more efficiently - saving you time and money. The foam inserts are provided with specifically tool-shaped spaces to ensure that tools are safely stored and can be taken out and put back in place with ease.



Scope of Delivery: KL-0184-011 E Counter-Holding Tool Kit, in a Foam Insert

Part No.	Description	Qty
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	3
KL-0184-0103	Folding Spring Bolt	4
KL-0184-0210	Counter-Holding Tool (Base Tool with Adaptor)	1
KL-0184-0220	Counter-Holding Tool (Base Tool)	1
KL-0184-0230	Counter-Holding Tool (Base Tool)	1
KL-0184-0240	Counter-Holding Tool (Base Tool)	1
KL-0184-0250	Counter-Holding Tool (Base Tool)	1
KL-0184-0410	Counter-Holding Tool (Base Tool)	1
KL-0184-0610	Counter-Holding Tool (Base Tool)	1
KL-0282-35	Counter-Holding Tool (adjustable)	1
KL-0282-311	Set of Bolts, Ø 18mm	1
KL-0282-312	Set of Bolts, Ø 7.5mm	1
KL-0282-313	Set of Bolts, Ø 6mm	1
KL-0184-0119	Foam Insert (without tools)	1

KL-0282-31

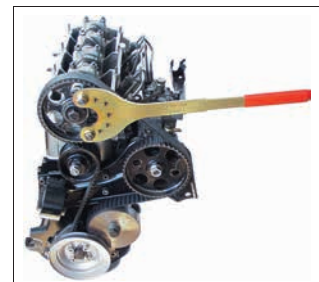
Reaction Wrench (420mm long, adjustable)

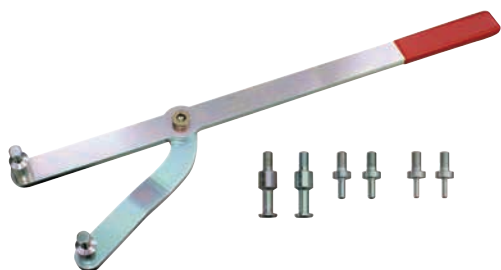
Suitable for use on perforated timing belt sprockets with a hole Ø not smaller than 12mm, as found in VW-Audi, Seat, Fiat, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Isuzu, Japanese vehicles, etc.

With interchangeable pins and different hole pitches. Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating; for example, when loosening the central fastening screw. Due to the different pin Ø and hole pitches, this wrench is almost universal in its range of application.

Technical Data:

Pitch between pins:	45-75mm
Pin Ø:	12mm and 16mm
Pin height:	61mm
Overall tool length:	420mm





KL-0282-35 B

Reaction Wrench Set (470mm long, adjustable)

Universally suitable for use on perforated timing belt sprockets with a hole Ø not smaller than 6.5mm as found in: VW-Audi, Seat, Škoda, Alfa, Fiat, Lancia, Dacia, MG, Nissan, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Suzuki, Isuzu, Japanese vehicles, etc.

Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating, for example, when loosening/tightening the central fastening bolt. Thanks to the different interchangeable pins and the adjustable lever allowing for variable adjustments to hole diameters and pitches, this tool is nearly universally applicable.

Technical Data:

Pitch between pins:	from 14-130mm
Pin Ø:	6mm, 7.5mm, 12mm, 18mm
Pin height:	25mm/42mm
Overall tool length:	470mm

Scope of Delivery: KL-0282-35 B Reaction Wrench Set (470mm long, adjustable)

Part No.	Description	Qty
KL-0282-35	Reaction Wrench (adjustable)	1
KL-0282-311	Set of Pins, Ø 18mm	1
KL-0282-312	Set of Pins, Ø 7.5mm	1
KL-0282-313	Set of Pins, Ø 6mm	1

KL-0184-022

Counter-Holding Tool, VW

Universal application.

Essential tool for the VW-Audi, Seat, and Škoda 1.2, 1.4 and 1.6 litre petrol engines with 2- or 4-valve technology as well as for Škoda 1.9 SDI Diesel engines. Installed in: VW Beetle, Bora, Caddy/Caddy Maxi, Eos, Fox, Golf, Golf Plus, Golf VI Cabrio, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A2, A3, A3 Convertible; Seat Alhambra, Altea/Altea XL, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo; Škoda Fabia, Fabia II, Octavia II, Octavia/Octavia Tour, Praktik, Roomster, Superb II, Yeti.

(Motorcode: AFK, AHW, APE, AQQ, ARR, ASY, AUA, AUB, AUS, AVY, AWY, AXP, AXU, AZD, AZQ, BAD, BAG, BBM, BBY, BBZ, BCA, BCB, BKG, BKY, BLF, BLG, BLN, BLP, BMD, BME, BMY, BTS, BUD, BWK, BXW, BZG, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CBZA, CBZB, CDGA, CGGA, CGGB, CGPA, CGPB, CHFA, CHFB, CKMA, CMAA)

This tool is designed to counter-hold pulleys, timing belt sprockets etc.

It is required when loosening/tightening the fastening screw.

The locking takes place either via the pins (Ø 11.5mm) which engage the holes of the pulleys/timing belt sprockets, or by fixing the counter-holding tool to the crankshaft timing belt sprocket by means of the M8 bolts.

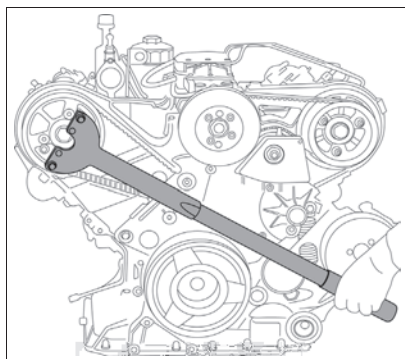
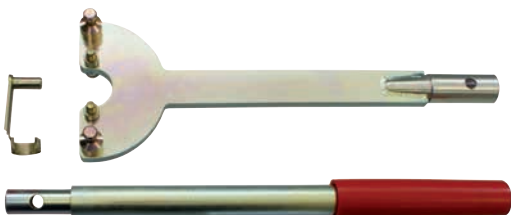
Thanks to its special length of 704mm, this tool allows even very tight-fitting or stubborn fastening screws to be loosened with ease.

Technical Data:

Overall length (of assembled tool):	704mm
Length of base tool:	351mm
Length of extension tube with protective handle:	403mm
Pin Ø:	11.5mm
Pin pitch:	99.5mm
Pin height:	31.5mm
Bolt thread:	M8
Bolt pitch:	45.5mm
Bolt height:	18mm

Scope of Delivery: KL-0184-022 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0220	Counter-Holding Tool (Base Tool with Bolts)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1



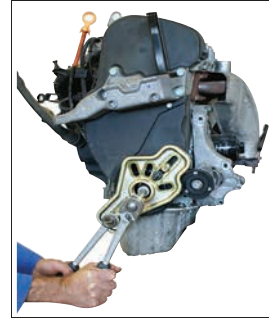
KL-0155-42 (Patented) V-Ribbed Belt Pulley Puller

Universally suitable for use on perforated V-ribbed belt pulleys with diameters of from 120-180mm.

Two tools in one. This tool is designed to hold the pulley in position while loosening the central fixing screw, as well as to remove the V-ribbed belt pulley; for example, at the crankshaft, servo pump etc. Any standard 1/2" ratchet or sliding T bar can be used as a holding tool.

Scope of Delivery: KL-0155-42 V-Ribbed Belt Pulley Puller

Part No.	Description	Qty
KL-0155-4201	Bridge	1
KL-0155-4202	Pressure Piece with O-Ring and Balls	1
KL-0183-5401	Housing	1
KL-0183-5402	Spindle, M16x1.5x60mm	1
KL-0155-4203	Clamping Jaw, R70	2
KL-0155-4204	Bolt, Ø 6mm	2
KL-0155-4205	Bolt, Ø 12mm	2
KL-0155-4206	Slide Bush	2
KL-0155-4207	Flat-Head Screw, M10x30mm	2
KL-0350-0009	Shoulder Nut, M10	2



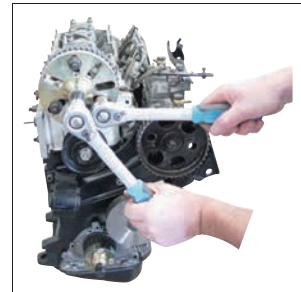
KL-0183-50 (Universal) (Patented) Timing Belt Sprocket Extractor and Reaction Tool

Universal application - Two tools in one. The tool can be used for loosening the central fixing screw as well as for removing the sprocket. Suitable for all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm. Hole diameters should not be less than 20mm.

The tool is used to hold the pulley in position while loosening/tightening the central fixing screw. It is also designed to prevent the pulley from rotating while removing the sprocket. For this, any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.

Scope of Delivery: KL-0183-50 Timing Belt Sprocket Extractor and Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-531	Hook, Ø 20mm	3
KL-0183-532	Hook, Ø 26mm	3
KL-0350-0009	Shoulder Nut, M10	3
KL-0183-540	Pressure Unit	1



KL-0183-51 A (Patented) Timing Belt Sprocket Extractor and Reaction Tool with 2 Hooks

Applicable to VW-Audi, Seat, Škoda, Opel/Vauxhall, Ford, BMW, Mercedes, Peugeot, Citroën, Renault, Fiat, Japanese vehicles etc.

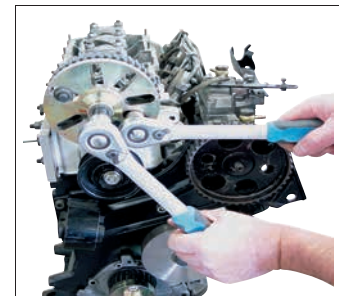
Universal application - Two tools in one. Very useful tool for loosening the central fixing screw and for removing the sprocket. Suitable for all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm. Hole diameters should not be less than 16.5mm. The tool is used to hold the pulley in position while loosening/tightening the central fixing screw. It is also designed to prevent the pulley from rotating while removing the sprocket. For this, any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.

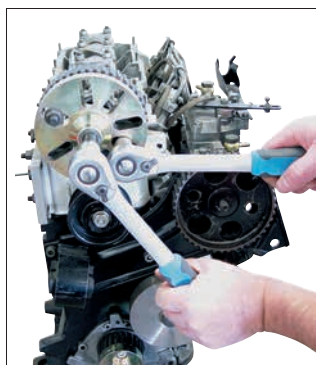
Scope of Delivery: KL-0183-51 A Timing Belt Sprocket Extractor and Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-533	Hook, Ø 16.5mm	2
KL-0350-0009	Shoulder Nut, M10	2
KL-0183-540 A	Pressure Unit	1

Accessories:

KL-0183-531 Hook, Ø 20mm
KL-0183-532 Hook, Ø 26mm





KL-0183-52

Timing Belt Sprocket Extractor/Reaction Tool

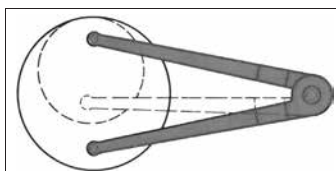
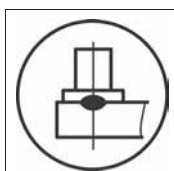
Applicable to injection pump and timing belt sprockets as found in Nissan, Renault, Dacia and Suzuki 1.5 dCi/DDiS Common Rail Diesel engines. Fitted, e.g., to Renault Clio II, Clio III, Fluence, Kangoo, Kangoo II, Laguna III, Megane II, Megane III, Scenic/Grand Scenic II, Scenic/Grand Scenic III, Logan, Logan MCV, Modus, Modus/Grand Modus II, Twingo II; Dacia Duster, Logan Pick-up, Logan Van/Express; Suzuki Jimny; Nissan Cube, Juke, Kubistar, Micra, Note, NV200, Qashqai, Qashqai 2, Tiida. (Engine codes: K9K, K9K 262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 838, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898)

Suitable for use on perforated injection pump and timing belt sprockets with a pitch circle diameter of from 70-100mm. The hole diameter should not be less than 16.5mm; also suitable for slotted holes with a width of 15mm. In conjunction with a 1/2" reversible ratchet, the timing belt sprocket extractor/reaction tool is used to hold the injection pump-/ timing belt sprocket in position while loosening/tightening the central fixing screw. It also allows for the removal of the timing belt sprocket from the camshaft/injection pump shaft without risk of damage. An indispensable tool set when changing the coolant pump allowing the user to remove the injection pump sprocket located in front of the pump.

Scope of Delivery: KL-0183-52 Timing Belt Sprocket Extractor/Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-534	Hook (oval)	2
KL-0183-540 A	Pressure Unit	1
KL-0350-0009	Hex Shoulder Nut, M10	2

6



KL-0149-131

Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm

Applicable to VW-Audi engines: 1.9 TDI/PD, 2.0 TDI/PD, 2.5 TDI, 2.7 Turbo, 3.0 TFSI/TSI etc.

Designed to hold the pulley in position when removing/installing the Visco-Fan; suitable for use on many VW-Audi engines.

Technical Data:

Ø:	14-100mm
Pin Ø:	5mm
Pin height:	6mm
Overall length:	215mm

KL-0282-39

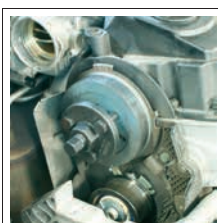
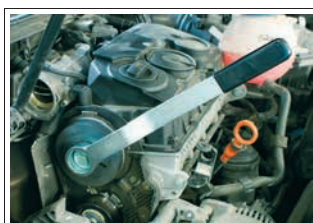
Puller Tool Set, Pumpe-Düse (Unit Injector)

Applicable to the VW-Audi, Ford, Seat, Škoda 3- and 4-cylinder (1.2, 1.4, 1.6, 1.9 and 2.0 litre) TDI Pumpe-Düse (unit injector) engines as installed in: VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3, A4, A5, A6, Q5, TT; Seat Altea, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Oktavia, Praktik, Roomster, Superb, Yeti. (Engine codes: CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CEGA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHF, CFJA, CGLA, CGLB, CJAA, CJCA, CJCB, CLCA, CLCB, CLJA, CLLA, CMEA)

This tool set is designed for the easy and professional removal of camshaft hubs. It is required, for example, when replacing the cylinder head gasket on 1.9 litre engines, when removing and replacing the camshaft, and for the repair of engines/cylinder heads. The KL-0282-391 reaction wrench enables the camshaft hub fixing screw to be loosened and tightened correctly. The KL-0282-392 puller allows for the accurate removal of the camshaft hub from the camshaft taper.

Scope of Delivery: KL-0282-39 Puller Tool Set, Pumpe-Düse (Unit Injector)

Part No.	Description	Qty
KL-0282-391	Counter-Holding Tool	1
KL-0282-392	Puller for Camshaft Hub	1



KL-0282-50

Puller for Timing Belt Sprocket (Crankshaft)

Suitable for use on VW-Audi 4 and 5-cylinder engines.

Designed to remove the crankshaft timing belt sprocket.



KL-0184-021

Counter-Holding Tool, VW

Applicable to VW-Audi (2.4 and 2.5 litre) 4- and 5-cylinder engines, both with and without vibration damper; as found on: VW Crafter, T4.

(Engine codes: AJA, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB)

This tool is designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw. An indispensable tool when replacing timing belts, sealing rings or flywheels, as well as for engine repairs.

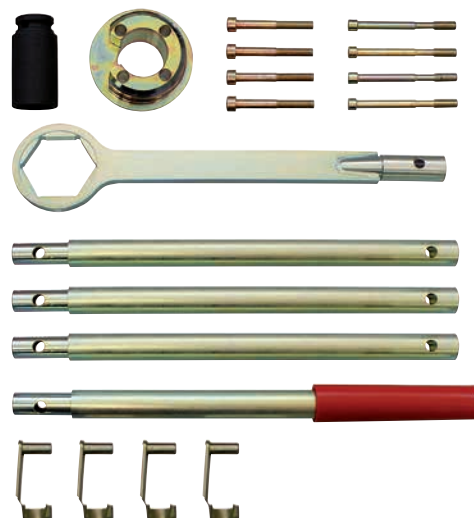
Technical Data:

Overall length (assembled tool):	1.8m
Length of extension tube:	400mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm
Drive of hex socket:	1/2"

Scope of Delivery:

KL-0184-021 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0210	Counter-Holding Tool (base tool with adaptor)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	3
KL-0184-0103	Folding Spring Bolt	4


6

KL-0184-023

Counter-Holding Tool, VW

Applicable to VW 1.4 16V and 1.6 16V petrol engines; as installed in VW Beetle, Bora, Caddy/Caddy Maxi, Golf, Lupo, Polo.

(Engine codes: AHW, APE, AQQ, ARC, ARR, ATN, AUA, AUB, AUS, AVY, AZD, BBY, BBZ, BCA, BCB, BKY, BUD)

This tool is used to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw.

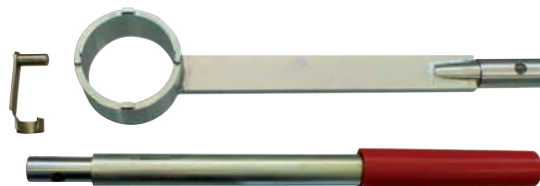
Technical Data:

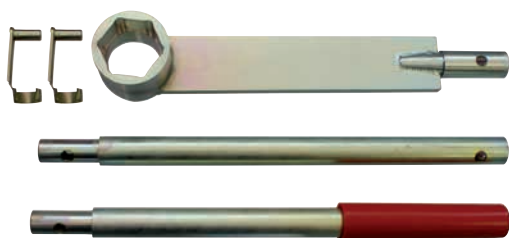
Overall length (of assembled tool):	739mm
Length of extension tube with protective handle:	403mm
Length of base tool:	386mm

Scope of Delivery:

KL-0184-023 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0230	Counter-Holding Tool (base tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1





Technical Data:

Length of assembled tool:	1.06m
Length of extension tube with protective handle:	403mm
Length of extension tube:	400mm
Length of base tool:	361mm

KL-0184-024

Counter-Holding Tool, VW

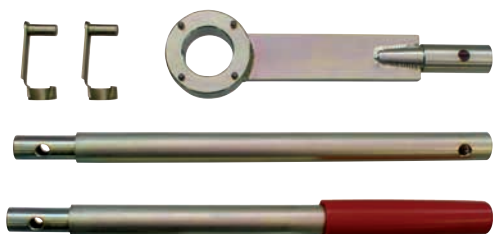
Applicable to VW-Audi, Seat vehicles, and Ford Galaxy equipped with either a 2.3, 2.8, 3.2, 3.6, 4.0 or 6.0 litre engine; such as VW Beetle, Bora, Sharan, Eos, Golf, Touareg, Transporter T5, Passat CC, Passat, Phaeton; Audi A3, A8, Q7, TT; Seat Alhambra, Leon, Toledo; Ford Galaxy.

(Engine codes: AGZ, AQN, AUE, AXZ, AYL, AYT, AZZ, BAA, BAN, BAP, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHK, BHL, BHT, BJN, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BRN, BRP, BSB, BTE, BTT, BUB, BWS, CBRA)

Designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

Scope of Delivery: KL-0184-024 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0240	Counter-Holding Tool (base tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	1
KL-0184-0103	Folding Spring Bolt	2



Technical Data:

Length of assembled tool:	980mm
Length of base tool:	276mm
Length of extension tube:	400mm
Length of extension tube with protective handle:	403mm

KL-0184-025

Counter-Holding Tool, VW

Applicable to VW-Audi, Seat, Škoda vehicles equipped with either a 1.8 or 2.0 TSI/TSI engine; such as VW Golf, Eos, Jetta, Passat, Passat CC, Scirocco, Sharan, Tiguan; Audi A3, A4, A5, Q5, TT; Seat Toledo, Altea/Altea XL, Exeo, Leon; Škoda Octavia II, Superb II, Yeti.

(Engine codes: BYT, BZB, CABA, CABB, CABD, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CGYA)

For counter-holding the crankshaft vibration damper while loosening and tightening the crankshaft central screw.

Scope of Delivery: KL-0184-025 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0250	Counter-Holding Tool (Base Tool with Pins)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	1
KL-0184-0103	Folding Spring Bolt	2



Technical Data:

Drive:	1/2"
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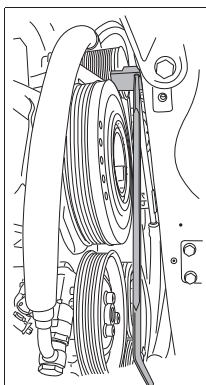
KL-0284-16

Tensioner Tool

Applications: VW Polo, Golf, Passat, T4 and Audi.

For V-ribbed belts.

When changing the V-ribbed belt, the automatic tensioner pulley can be loosened by means of the KL-0284-16 tensioner tool.



KL-0284-12

Tensioner Tool (Ribbed V-Belt)

Suitable for use on ribbed V-belts as found in VW Polo, Golf, Passat, T4 and Audi.

(Engine codes: ASN, BBJ)

The KL-0284-12 tensioner tool enables the automatic tensioner pulley to be released when replacing a ribbed V-belt.

Advantage:

The lever head attachment is reversible/interchangeable.

KL-0284-92

Tension Pulley Spanner, Size (waf) 16mm

Universal application.

Particularly useful on VW-Audi 1.9 and 2.0 TDI engines.

(Engine codes: ASZ, ATD, AXA, AXR, BLS, BLT, BMT, BPX, BUK, BXJ)

This tool is designed to pre-tension the auxiliary belt tensioner when the removal and installation of the belt is to be performed in situ on the vehicle. THE ideal spanner for use in areas where space is at a premium.

Technical Data:

Size (waf):	16mm
Length:	295mm



KL-0284-15

V-Ribbed Belt Adjustment Tool

(via the alternator)

Suitable for use on 1.4, 1.6 and 2.0 litre VW engines on which the V-ribbed belt can only be tensioned via the spring-loaded alternator.

(Engine codes: AMF, AXX, BAH, BBY, BBZ, BCA, BHZ, BKR, BKY, BMS, BNM, BNV, BPY, BUD, BWA, BXW, BZC, CGGB)

Tool features strengthened and fluted pins which allow the tension on the V-ribbed belt to be released. The special fluted design prevents the pins from slipping out of the alternator boreholes.

Technical Data:

Drive:	1/2"
Diameter (pin to pin):	157mm



KL-0284-8

Holding Tool

Applications: VW Polo, Golf, Passat and Audi A4, etc.

Designed to counter-hold the pulley on the power steering pump.

Advantages:

- The 1/2" drive in the tool handle enables the tool to be extended, for example by a ratchet.
- Facilitates the loosening of stubborn fastening screws on the pulley.

Technical Data:

Length:	Height:	Inner Ø:	Screw retaining Ø:	Weight:
250mm	17mm	31mm	14mm	450g



KL-0284-11

Water Pump Holding Tool

Applications: VW-Audi etc.

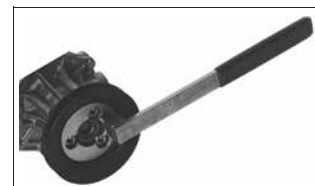
Designed to counter-hold **deep-drawn** water pump pulleys that are used when an air conditioning system is installed. For example necessary when loosening and tightening the fastening screws on the pulley.

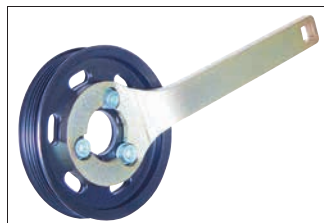
Advantages:

- Safe locking of the water-pump pulley via the fastening screws.
- Facilitates the loosening of stubborn fastening screws on the water pump pulley.

Technical Data:

Length:	Height:	Inner Ø:	Screw retaining Ø:	Weight:
300mm	40mm	31mm	14mm	450g





KL-0284-81

Holding Tool

Suitable for use on VW Passat (1997 onwards) and Audi A4 (1999 onwards) etc.

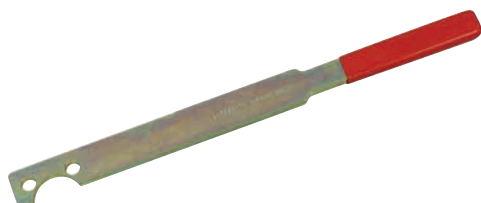
Designed to counter-hold the pulley on the power steering pump. For example, necessary when loosening and tightening the fastening screws on the pulley.

Advantages:

- The 1/2" drive in the tool handle enables the tool to be extended, for example by a ratchet.
- Facilitates the loosening of stubborn fastening screws on the pulley.

Technical Data:

Length:	Height:	Inner-Ø:	Screw retaining Ø:	Weight:
250mm	23mm	38mm	16mm	450g



KL-0582-1

Holding Tool for Viscous Fan, BMW

Suitable for use on BMW engines, e.g. M20 and M30.

Designed to counter-hold the fan shaft when removing the viscous fan.

Technical Data:

Hole pitch:	38mm
Weight:	500g



KL-0582-2

Holding Tool for Viscous Fan, BMW

Suitable for use on BMW engines, e.g. M10, M20, M21, M30, M50, M51, M52, M52TU, M54, M56, M70, M73, S14 and S38.

Designed to counter-hold the fan shaft when removing the viscous fan.

Technical Data:

Hole pitch:	44.5mm
Weight:	400g

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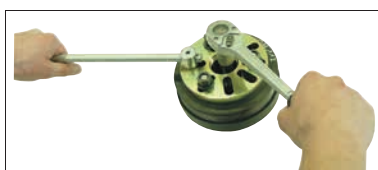
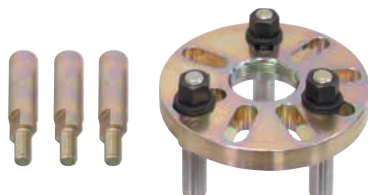
KL-0123-1 A

Reaction Wrench, Size (waf) 32mm

Designed to counter-hold the viscous clutch drive shaft when removing/installing the viscous clutch on **BMW and Ford** vehicles.

Technical Data:

Size (waf):	32mm
Length:	280mm
Height:	11mm
Weight:	340g



KL-0366-81

Counter-Holding Tool, Mercedes

Suitable for use on Mercedes engines, e.g. M112, M113 and OM642, etc.

This tool is designed to counter-hold the crankshaft pulley when loosening/tightening the crankshaft central screw.

It is required when replacing pulleys or for engine repairs.

Scope of Delivery: KL-0366-81 Counter-Holding Tool, Mercedes

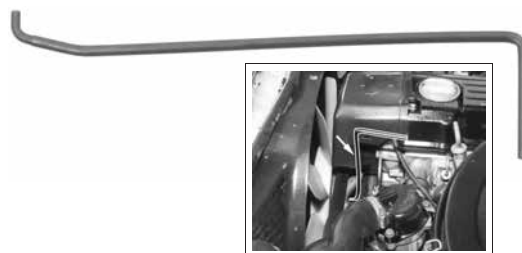
Part No.	Description	Qty
KL-0366-800	Bolt Set, Ø 20mm	1
KL-0366-801	Bolt Set, Ø 15mm	1
KL-0366-8001	Perforated Disc	1
KL-0350-2007	Hex Shoulder Nut, M12	3

KL-0367-1

Locking Tool

Suitable for use on Mercedes engines such as M103.

This tool allows for the loosening of the viscous fan pulley (locking the fan pulley).



KL-0366-5

Special Open-End Wrench, Size (waf) 36mm

Application: Mercedes engines M111, OM604, OM605 and OM606 (C- and E-Class).

This special open-end wrench is designed to loosen the screws on fans.



Technical Data:

Length:	350mm
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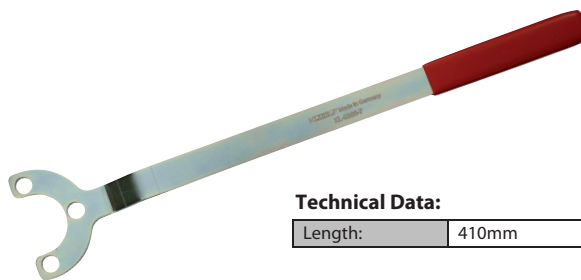
KL-0366-7

Reaction Wrench

Suitable for use on Mercedes M111 engines as installed in C- and E-Class vehicles (4-cylinder 4-valve), OM604, OM605 and OM606.

With 3 boreholes.

In order to remove the cooling fan hub, the reaction wrench is bolted to the front face of the hub. The V-ribbed belt is not in place during this operation.



Technical Data:

Length:	410mm
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KL-0366-6

Special Open-Ended Wrench, Size (waf) 65mm

Suitable for use on Mercedes engines M103 (6-cylinder), M104 (6-cylinder 4-valve), M119 (8-cylinder 4-valve), M120 (12-cylinder 4-valve).

Special open-ended wrench for the removal/installation of the cooling fan hub.



Technical Data:

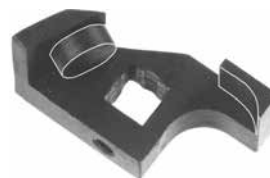
Length:	400mm
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KL-0384-1

Tensioner Tool (V-Ribbed Belt), Mercedes

Suitable for use on Mercedes Transporters of the 208 D to 410 D Series, equipped with either an OM601 or OM602 engine; also for Mercedes passenger cars fitted with a hydraulic pump for self-levelling suspension.

The tool is used to relieve tension on the V-ribbed belt by pushing back the automatic tensioner pulley. Due to the extremely limited space available, in particular on Transporter models, it is very difficult to push back the automatic tensioner pulley in order to change the V-ribbed belt. The **KL-0384-1** tensioner tool is designed to make light work of this difficult job. The tool is operated by a 3/8" socket spanner.



KL-0384-10

Locking Tool, Mercedes

Applicable to Mercedes-Benz A-, B-, C-, CLC-, CLK-, CLS-, E-, G-, GL-, M-, R-, S-, SLK-, V-Class, Sprinter, Vito and Viano vehicles equipped with either a petrol engine (engine codes: M104, M111, M112, M119, M120, M272, M273) or a Diesel engine with 4-valve-technology.

(Engine codes: OM605, OM606, OM611, OM612, OM613, OM614, OM628, OM629, OM640, OM642, OM643, OM646, OM646 EVO, OM647, OM648, OM649)

Designed to lock the camshafts when removing the cylinder head.



Technical Data:

Ø:	5.8/6.0mm
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Technical Data:

Size (waf):	36mm
Length:	280mm
Height:	11mm
Weight:	340g

KL-0123-2 A

Reaction Wrench, Size (waf) 36mm

Suitable for use on Ford, Opel/Vauxhall and GM vehicles.

Designed to counter-hold the viscous clutch drive shaft when removing/installing the viscous clutch.



KL-0483-10

Counter-Holding Tool, 39mm waf

Suitable for use on Opel/Vauxhall and GM 1.6 litre OHC engines. (Engine codes: X16S2R, Z16SE)

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

Technical Data:

Size (waf):	39mm
Drive:	1/2"
Length:	90mm
Weight:	110g



Technical Data:

Size (waf):	41mm
Drive:	1/2"
Length:	90mm
Weight:	110g

KL-0483-11

Counter-Holding Tool, 41mm waf

Suitable for use on Opel/Vauxhall and GM 1.2, 1.3, 1.4, 1.6 litre OHC engines; Daewoo 1.4, 1.5, 1.6, 1.8; Chevrolet 1.4, 1.6. (Engine codes: A13DM/14SMS, A15DM/15SMS, A16DM, A16DMS, F14D3, F14S3, F16D3, F18N, LXT, Z16SE)

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

Advantages:

- Ensures the viscous clutch is securely counter-held.
- Prevents damage to the viscous clutch.
- High-quality tool due to a special manufacturing process.



KL-0483-12

Counter-Holding Tool, 46mm waf

Suitable for use on Opel/Vauxhall and GM OHC engines.

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

Technical Data:

Size (waf):	46mm
Drive:	1/2"
Length:	90mm
Weight:	110g



Technical Data:

Length of tension lever:	465mm
Ø of retaining pin:	4.2mm



KL-1381-30

Tensioner Tool with Retaining Pin

Applicable to PSA (Citroën, Peugeot), Fiat and Ford 1.4 und 1.6 litre Diesel engines as found in: Citroën Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4 II, C4 Picasso/Grand Picasso, C5 III, DS3, Berlingo III, DS4, DS3, DS4, Xsara II, Xsara Picasso and Peugeot Partner III, 206, 207, 207 CC, 308, 308 CC, 508, 3008, 5008. (Engine codes: DV4, DV6)

Facilitates the tensioning and locking of V-ribbed belt tensioners.

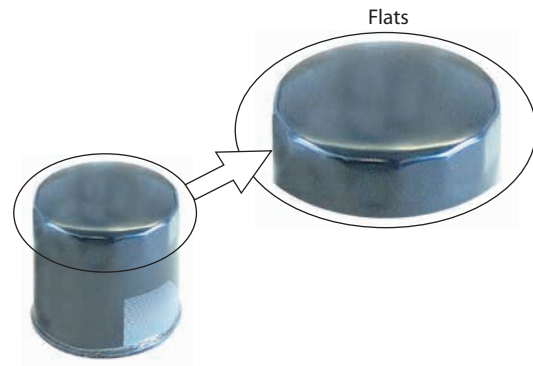
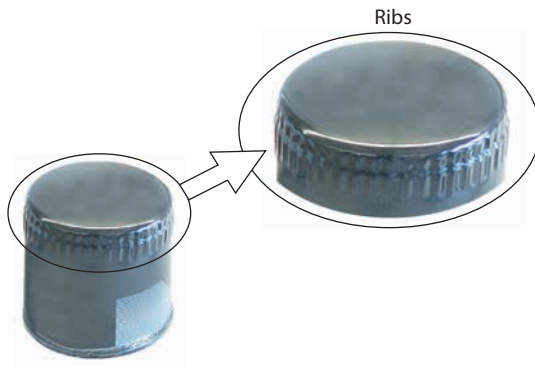
This tool allows for the removal/installation of the V-ribbed belt in situ on the vehicle even in very limited space conditions.

Scope of Delivery: KL-1381-30 Tensioner Tool with Retaining Pin

Part No.	Description	Qty
KL-1381-3021	Retaining Pin (angled), Ø 4.2mm	1
KL-1383-301	Tension Lever with Base Body	1

To identify the suitable oil filter socket, proceed as follows:

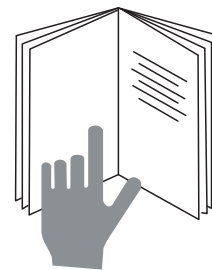
1. Check whether the filter has flats or ribs.
2. Count the number of ribs or flats.



3. With the aid of a calliper gauge, measure the width across flats (waf) size.



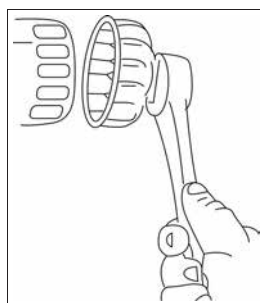
4. Choose the suitable oil filter socket with the help of the Overview Table below.



Overview Table of Oil Filter Sockets:

Size	Size (width across flats)	Part No.	Description
27mm	27mm	KL-0122-52	Oil Filter Socket
32mm	32mm	KL-0122-51	Oil Filter Socket
36mm	36mm	KL-0122-5	Oil Filter Socket
37mm	37mm	KL-0122-54	Oil Filter Socket
64mm	64mm, 14 flats	KL-0122-308	Oil Filter Socket
65mm	65mm, 14 flats	KL-0122-309	Oil Filter Socket
66mm	Ø 66mm, 6 ribs	KL-0122-318	Oil Filter Socket
66mm	Ø 66mm, 6 ribs	KL-0122-601	Oil Filter Socket
67mm	67mm, 14 flats	KL-0122-311	Oil Filter Socket
72mm	72mm, 14 flats	KL-0122-310	Oil Filter Socket
73mm	73mm, 10 flats	KL-0122-612	Oil Filter Socket
74mm	74mm, 14 flats	KL-0122-301	Oil Filter Socket
74mm	74mm, 14 flats	KL-0122-3	Oil Filter Socket
74mm	74mm, 15 flats	KL-0122-302	Oil Filter Socket
74mm	74mm, 30 ribs	KL-0122-306	Oil Filter Socket
74mm	74mm, 8 flats	KL-0122-323	Oil Filter Socket
76mm	Ø 76mm, 12 ribs	KL-0122-219	Oil Filter Socket (aluminium)
76mm	Ø 76mm, 12 ribs	KL-0122-319	Oil Filter Socket
76mm	Ø 76mm, 12 ribs	KL-0122-7	Oil Filter Wrench
76mm	76mm, 15 flats	KL-0122-303	Oil Filter Socket
78mm	78mm, 15 flats	KL-0122-332	Oil Filter Socket
79mm	79mm, 15 flats	KL-0122-305	Oil Filter Socket

Size	Size (width across flats)	Part No.	Description
82mm	82mm, 15 flats	KL-0122-314	Oil Filter Socket
84mm	84mm	KL-0122-609	Oil Filter Socket
86mm	Ø 86mm, 18 ribs	KL-0122-312	Oil Filter Socket
86mm	Ø 86mm, 18 ribs	KL-0122-212	Oil Filter Socket (aluminium)
86mm	86mm, 16 flats	KL-0122-326	Oil Filter Socket
86mm	86mm, 16 flats	KL-0122-426	Oil Filter Socket (reinforced design)
89mm	89mm, 15 flats	KL-0122-315	Oil Filter Socket
91mm	91mm, 15 flats	KL-0122-304	Oil Filter Socket
92mm	92mm, 10 flats	KL-0122-324	Oil Filter Socket
92mm	92mm, 36 ribs	KL-0122-307	Oil Filter Socket
93mm	Ø 93mm, 45 ribs	KL-0122-317	Oil Filter Socket
93mm	Ø 93mm, 45 ribs	KL-0122-217	Oil Filter Socket (aluminium)
95mm	95mm, 15 flats	KL-0122-334	Oil Filter Socket
96mm	Ø 96mm, 18 ribs	KL-0122-313	Oil Filter Socket
96mm	Ø 96mm, 18 ribs	KL-0122-213	Oil Filter Socket (aluminium)
99mm	99mm, 15 flats	KL-0122-335	Oil Filter Socket
100mm	100mm, 15 flats	KL-0122-316	Oil Filter Socket
103mm	103mm, 14 flats	KL-0122-611	Oil Filter Socket
106mm	106mm, 15 flats	KL-0122-322	Oil Filter Socket
108mm	Ø 108mm, 18 ribs	KL-0122-321	Oil Filter Socket
108mm	Ø 108mm, 18 ribs	KL-0122-602	Oil Filter Socket
108mm	108mm, 15 flats	KL-0122-327	Oil Filter Socket



Technical Data:

Drive:	3/8"
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KL-0122-31 K

Set of Oil Filter Sockets

The oil filter sockets with profile come in a reinforced design and are specifically adapted to the respective oil filter cartridges.

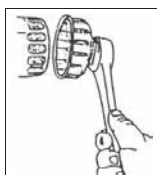
Scope of Delivery: KL-0122-31 K Set of Oil Filter Sockets

Part No.	Description	Applications:
KL-0122-301	Oil Filter Socket, Size (waf) 74mm, 14 Flats, 1 Step	Audi e.g. A3 (TDI); BMW 3-Series (E36 with 4-cylinder engines), Citroën; Fiat; Ford; Lancia; Mazda; Mercedes (e.g. CDI engines, C- and E-Class (with 4- and 6-cylinder petrol engines); Nissan; Opel/Vauxhall; Peugeot; Porsche; Renault; Toyota; VW e.g. Golf (IV TDI), etc.
KL-0122-302	Oil Filter Socket, Size (waf) 74mm, 15 Flats, 2 Steps	Ford, Opel/Vauxhall, etc.
KL-0122-303	Oil Filter Socket, Size (waf) 76mm, 15 Flats, 2 Steps	VW-Audi, Mercedes, Opel/Vauxhall, Ford Focus III, etc.
KL-0122-304	Oil Filter Socket, Size (waf) 91mm, 15 Flats, 1 Step	Alfa Romeo, Fiat, Ford, Honda, Mazda, Mitsubishi, Nissan, Opel/Vauxhall, Porsche, Renault, Volvo, VW-Audi, etc.
KL-0122-305	Oil Filter Socket, Size (waf) 79mm, 5 Flats, 1 Step	Ford, Honda, Isuzu, Mazda, Nissan, Opel/Vauxhall, Subaru, Toyota, etc.
KL-0122-306	Oil Filter Socket, Ø 74mm, 30 Ribs, 1 Step	Ford, etc.
KL-0122-307	Oil Filter Socket, Ø 92mm, 36 Ribs, 1 Step	Ford, etc.
KL-0122-308	Oil Filter Socket, Size(waf) 64mm, 14 Flats, 1 Step	Fiat, Daihatsu, Nissan, Toyota, etc.
KL-0122-309	Oil Filter Socket, Size (waf) 65mm, 14 Flats, 2 Steps	Daihatsu, Toyota, etc.
KL-0122-310	Oil Filter Socket, Size (waf) 72mm, 14 Flats, 1 Step	Toyota, Mini Diesel, etc.
KL-0122-311	Oil Filter Socket, Size (waf) 67mm, 14 Flats, 1 Step	Mazda, Ford, etc.
KL-0122-314	Oil Filter Socket, Size (waf) 82mm, 15 Flats, 2 Steps	Honda, Mazda, Nissan, Subaru, Toyota, etc.
KL-0122-315	Oil Filter Socket, Size (waf) 89mm, 15 Flats, 1 Step	Honda, Isuzu, Mitsubishi, etc.
KL-0122-316	Oil Filter Socket, Size (waf) 100mm, 15 Flats, 1 Step	Isuzu, Mitsubishi, etc.
KL-0122-329	Adaptor 1/2" to 3/8"	
KL-0122-320	Plastic Storage Case	

6



3/8"



KL-0122-332

Oil Filter Socket, Size (waf) 78mm

Applications: Ford, Mitsubishi, Nissan, Toyota, etc.

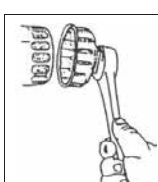
For oil filters with size 78mm (waf) and 15 flats.

Technical Data:

Drive:	3/8"
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3/8"



KL-0122-334

Oil Filter Socket, Size (waf) 95mm

Applications: Alfa Romeo, Chrysler, Ford, Toyota etc.

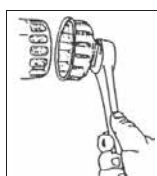
For oil filters with size 95mm (waf) and 15 flats.

Technical Data:

Drive:	3/8"
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3/8"



KL-0122-335

Oil Filter Socket, Size (waf) 99mm

Applications: Toyota Diesel etc.

For oil filters with size 99mm (waf) and 15 flats.

Technical Data:

Drive:	3/8"
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KL-0122-426

Oil Filter Socket,

Size (waf) 86mm, 16 Flats (reinforced design)

The ideal tool for Volvo vehicles, e.g. S40, S70 etc, etc.

Suitable for oil filters with size (waf) 86mm and 16 flats. Necessary to remove and install the oil filter cover when replacing the oil filter cartridge.

Technical Data:

Drive:	3/8"
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3/8"



KL-0122-3

Oil Filter Socket, Size (waf) 74mm, 14 Flats

Applications: VW-Audi, BMW, Citroën, Fiat, Ford, Lancia, Mazda, Mercedes, Nissan, Opel/Vauxhall, Peugeot, Porsche, Renault, Suzuki, Toyota, etc.

The ideal tool for Audi A3 (TDI); VW Golf (IV TDI), LT; BMW 3 Series (E36 with 4-cylinder engine); Porsche Cayenne, Boxster, 911; Mercedes CDI engines, as well as C- and E-Class (with 4- or 6-cylinder petrol engine).

Intended for use on oil filters with size (waf) 74mm and 14 flats.

Technical Data:

Drive:	22mm
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KL-0122-212

Oil Filter Socket (Aluminium), Ø 86mm, 18 Ribs

Applications: VW-Audi, Seat, Škoda etc.

The ideal tool for VW, e.g.: Golf (III), Passat (until 1996 with TDI engine); Audi, e.g.: A6 (until 1996 with TDI engine 85 kW/115bhp); Renault, e.g.: Clio, Rapid and Laguna (1.9 D), Safrane; Espace (III/2.1 D), etc.

Intended for use on oil filters with Ø 86mm and 18 ribs.

Technical Data:

Drive:	3/8"
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3/8"



KL-0122-213

Oil Filter Socket (Aluminium), Ø 96mm, 18 Ribs

Applications: VW-Audi, Seat, Škoda etc.

The ideal tool for Audi, e.g.: A4 (with TDI engine); VW, e.g.: Touareg (with V10 TDI engine), Passat (1997 onwards, with TDI engine); Renault, e.g.: Laguna, Safrane, Espace III (2.2 D), R19, Rapid and Megane (1.9 and 2.1 D/TD), Master (2.5 and 2.8 D/TD); Opel/Vauxhall, e.g.: Movano (2.5 and 2.8 D/TD), etc.

Intended for use on oil filters with Ø 96mm and 18 ribs.

Technical Data:

Drive:	3/8"
--------	------



3/8"



KL-0122-217

Oil Filter Socket (Aluminium), Ø 93mm, 45 Ribs

Applications: VW-Audi, Seat, Škoda, Renault etc.

The ideal tool for VW-Audi (2.4, 2.6 and 2.8 TDI Diesel engines) and Renault Maxity etc.

Intended for use on oil filters with Ø 93mm and 45 ribs.

Technical Data:

Drive:	3/8"
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3/8"



Accessories (on demand):

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm





3/8"



KL-0122-219

Oil Filter Socket (Aluminium), Ø 76mm, 12 Ribs

Applications: VW-Audi, Mercedes, Seat, Škoda etc. (with Purflux Filter LS 918).
The ideal tool for Mercedes vehicles with either an M102 or M103 6-cylinder petrol engine.

Intended for use on oil filters with Ø 76mm and 12 ribs. Thanks to the particularly compact design of the oil filter socket, oil filters on Mercedes M102 and M103 engines can be replaced without the need for removing the induction pipe.

Technical Data:

Drive:	3/8"
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3/8"



KL-0122-601

Oil Filter Socket, Ø 66mm, 6 Ribs

Suitable for use on Renault vehicles such as Twingo, Clio (with a D petrol engine and filter no. 77 00 869 029).

Intended for use on oil filters with Ø 66mm und 6 ribs.
This socket allows for the quick and easy removal of stuck oil filters.

Technical Data:

Drive:	3/8"
Weight:	191g



3/8"



KL-0122-602

Oil Filter Socket, Ø 108mm, 18 Ribs

Suitable for use on Renault vehicles such as Trafic, Master, Safrane (with an S8U engine and filter no. 77 00 860 823).

Suitable for oil filters with Ø 108mm and 18 ribs.
This socket allows quick and easy removal of stuck oil filters.

Technical Data:

Drive:	3/8"
Weight:	289g



KL-0122-612

Oil Filter Socket, Size (waf) 73mm, 10 Flats

Suitable for use on Alfa Romeo GTA.

Suitable for oil filters and oil filter housings with 10 flats and size (waf) 73mm.
This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

Technical Data:

Weight:	270g
Drive:	3/8"



3/8"



KL-0122-609

Oil Filter Socket, Size (waf) 84mm, 14 Flats

Suitable for use on oil filters and/or oil filter housings with 14 flats and size (waf) 84mm, e.g. in Mercedes OM642 CDI engines as fitted to: C-Class (320), CLS (320), E-Class (280, 320), S-Class (320), ML (280, 320), etc.

Intended for use on oil filters with size (waf) 84mm with 14 flats. This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

Technical Data:

Size:	84mm, 14 flats
Drive:	3/8"
Weight:	500g

KL-0122-611

Oil Filter Socket, Size (waf) 103mm, 14 Flats

Suitable for use on 3.0 litre Diesel engines as found in Opel/Vauxhall Signum (Z30DT; Y30DT) and Renault Espace (IV), VEL Satis etc.

Intended for use on oil filters/oil filter housings with size (waf) 103mm and 14 flats.

This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

Technical Data:

Drive:	3/8"
Weight:	560g



KL-0122-7

Oil Filter Wrench with Handle, Ø 76mm, 12 Ribs

Applications:

- Ford with a 1.8 Diesel engine and Motorcraft filter EFL 344
- Peugeot with Purflux filters
- Renault, e.g.: R5, Twingo, Rapid (with C Petrol engines); Clio, Kangoo (with E Petrol engines); R19, Espace III, Laguna (with F Petrol engines); Megane, Kangoo (with K Petrol engines, only those with filter No. 77 00 873 583); R21, Espace I + II (with F-Petrol engine); Trafic (with J Petrol engine, only those with filter No. 77 00 720 978)
- Honda, e.g. Prelude (BA4 2.0 16V)
- Land Rover Defender 2.5 Diesel (DD5) with filter No. LPX 100 590, etc.

Designed for oil filters with Ø 76mm and 12 ribs.

Allows quick and easy removal of stuck oil filters.

Technical Data:

Length:	326mm
Weight:	293g



KL-0122-191

Oil Filter Socket (universal), Ø 60-80mm

Universally suitable for use on oil filters with Ø 60-80mm as found in passenger cars.

Allows the user to loosen oil filters quickly and safely. Retaining jaws grip the filter without the risk of slipping. The ideal tool when space is at a premium.

Technical Data:

Clamping range:	Ø 60-80mm
Drive (square):	1/2" or 21mm waf



KL-0122-13

Oil Filter Socket, Ø 64-80mm

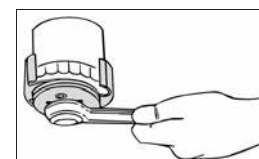
The socket allows for the quick and safe loosening of oil filters on European vehicles. Retaining jaws grip the filter without the risk of slipping. The ideal tool when space is at a premium.

Technical Data:

Clamping range:	Ø 64-80mm
Weight:	400g
Drive:	3/8"



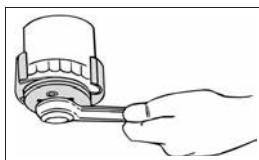
3/8"



Accessories (on demand):

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm





KL-0122-14

Oil Filter Socket, Ø 80-98mm

The socket allows for the quick and safe loosening of oil filters on European vehicles. Retaining jaws grip the filter without the risk of slipping. The ideal tool when space is at a premium.

Technical Data:

Clamping range:	Ø 80-98mm
Weight:	400g
Drive (square):	3/8"



KL-0122-192

Oil Filter Socket (universal), Ø 80-110mm

Universally suitable for use on oil filters with Ø 80-110mm as found in passenger cars.

Allows the user to loosen oil filters quickly and safely. Retaining jaws grip the filter without the risk of slipping. The ideal tool when space is at a premium.

Technical Data:

Clamping range:	Ø 80-110mm
Drive (square):	1/2" or 22mm waf



KL-0122-193

Oil Filter Socket (universal), Ø 110-145mm

Universally suitable for use on oil filters and air dryer cartridges with Ø of 110-145mm as found in HGVs.

Allows the user to loosen oil filters and air dryer cartridges quickly and safely. The special design of the tool and of the retaining jaws ensure that even very tight-fitting/stuck oil filters and air dryer cartridges can be removed without risk of slipping. The ideal tool when space is at a premium.

Technical Data:

Clamping range:	Ø 110-145mm
Drive (square):	1/2" or 24mm waf



KL-0122-54

Oil Drain Plug Socket, Size (waf) 37mm

Suitable for use on VW-Audi, Seat and Škoda 1.8 and 2.0 FSI/TSI petrol engines with oil drain plug at the plastic oil filter housing. For example, fitted to: Audi A3 (8P1, 8PA), A4 (8EC, 8ED, 8H7, 8HE), A6 (4F2, 4F5), TT (8J3, 8J9); Seat Altea (5P1, 5P5), Leon (1P1), Toledo (III [P2]); Škoda Octavia (1Z3, 1Z5); VW Eos, Golf (V [1K1, 5M1]), Jetta (III [1K2]), New Beetle (9C1, 1C1, 1Y7), Passat (3C2, 3C5), Touran (1T1, 1T2). (Engine codes: AXW, BGB, BLX, BLR, BLY, BVX, BVY, BVZ, BWE)

Designed for the professional loosening/tightening of the oil drain plug (size 37mm waf) at the plastic oil filter housing. Necessary, for example, when draining the engine oil from the oil filter housing using the **KL-0288-10** oil drain adaptor.



KL-0122-5

Oil Filter Socket, Size (waf) 36mm

Suitable for use on BMW 1 Series, 3 Series, 5 Series; Mini One, Cooper, Cooper S, and VW Touareg, T5, as well as for Mercedes Diesel engines OM604, OM605, OM606, BMW engines M52 (6-cyl.), M60 (8-cyl.), M70 (12 cyl), and the VW VR6 engine.

This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

Technical Data:

Drive:	3/8"
Size:	36mm

KL-0122-51

Oil Filter Socket, Size (waf) 32mm

Suitable for use on Opel/Vauxhall; e.g. X10XE, X12XE, Y17DT, Y17DTL engines, Mercedes HGV, e.g. OM364, OM366 engines, and Škoda Superb.

This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

Technical Data:

Drive:	3/8"
Size (waf):	32mm



KL-0122-52

Oil Filter Socket, Size (waf) 27mm

Suitable for use on Mercedes, e.g. A-Class (W169), B-Class (W245), C-Class (W204) and Smart.

This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

Technical Data:

Drive:	3/8"
Size (waf):	27 mm



KL-0122-59 A

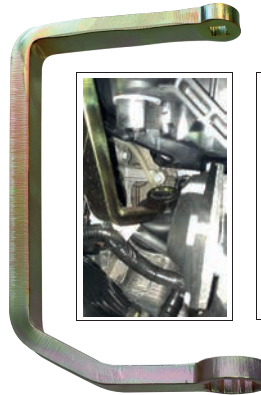
Oil Filter Socket Wrench, Size (waf) 27mm

Suitable for use on the following TwinCam (DOHC) Diesel engines: PSA and Ford 2.0 Hdi and Duratorq TDCi (DW10C), as well as PSA, Ford and Jaguar 2.2 Hdi and Duratorq TDCi (DW12C). For example, fitted to Peugeot 308, 3008, 5008, 407, 407 Coupé, 508, RCZ; Citroën C4 Picasso, C5, C5 Mk2, C8, DS4, DS5; Ford Mondeo Mk3, C-Max, Galaxy Mk2, Galaxy Mk3, S-Max, Kuga and Jaguar XF 2.20 Sportbrake.

This oil filter wrench is designed for the removal and installation of oil filter covers that are difficult to access. An indispensable tool when replacing the oil filter cartridge.

Technical Data:

Size:	27mm
Drive (square):	3/8"
Length:	234mm



KL-0122-3300 K

(Universal)

Set of Oil Filter Sockets, in a Plastic Storage Case

Universally applicable, e.g., to: VW-Audi e.g.: TDI - Golf (III), Passat, A4; TDI PD - A2, A3, A4, A6, TT, Lupo, Polo, Golf (IV and V), Passat, Sharan, Touareg, T4, T5; BMW e.g.: 1 Series (E87), 3 Series (E36, E46), 5 Series (E39, E60), 7 Series (E38, E65), Z3, Z4, X3, X5; Mini e.g.: Mini One, Cooper, Cooper S; Mercedes e.g.: A-, C-, E- and S-Class as well as Sprinter; Opel/Vauxhall e.g.: Agila, Astra (G and H), Corsa C, Meriva, Signum, Vectra (B and C), Zafira.

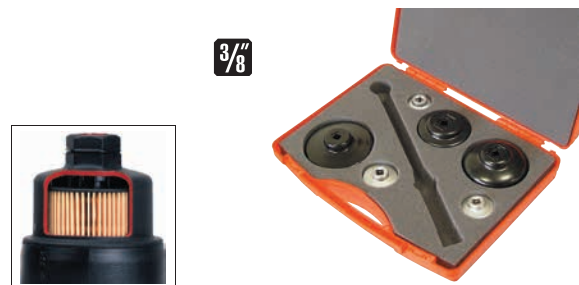
Universal application. The set covers most vehicles equipped with a paper oil filter and either a plastic or metal screw cap.

When installing the oil filter, the plastic or metal screw cap must be tightened to a given torque. Non-observance can lead to damage to the plastic screw cap.

The new KL-0122-3300 K oil filter tool set with its 6 oil filter sockets, together with the torque wrench 4549-05 (accessory), is the perfect solution for this job.

Scope of Delivery: KL-0122-3300 K Set of Oil Filter Sockets

Part No.	Description	Qty
KL-0122-301	Oil Filter Socket, 74mm, 14 flats	1
KL-0122-313	Oil Filter Socket, Ø 96mm, 18 ribs	1
KL-0122-326	Oil Filter Socket, 86mm, 16 flats	1
KL-0122-5	Oil Filter Socket, 36mm	1
KL-0122-51	Oil Filter Socket, 32mm	1
KL-0122-52	Oil Filter Socket, 27mm	1
KL-0122-3390	Plastic Storage Case	1



Accessorie:

4549-05 - TORCOFIX K Code: 1545140

5-50Nm, Length: 335mm, Scaling: 0.25Nm, Weight: 540g



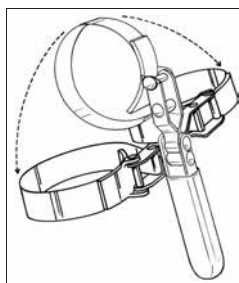
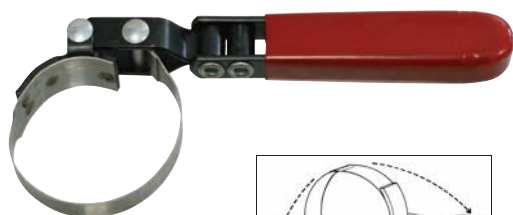
Technical Data:

Length:	334.5mm
Weight:	540g
Nm:	5-50
lbf-ft:	3.5-37

4549-05

Torque Wrench TORCOFIX K

- Controlled screw tightening in the range of 5-50Nm.
- Adjustable torque wrench with square drive and integrated ratchet-head function.
- For controlled bi-directional tightening.
- 3/8" interchangeable mushroom head square drive with ball-locking mechanism DIN 3120 - A 6,3, ISO 1174.
- In accordance with DIN EN ISO 6789, traceable to national norms.
- Lever-breaking mechanism with a castor guarantee tactile-impulse and audible actuation signals.
- Actuation accuracy: +/- 3% tolerance of the scale set torque.
- Robust, satin-matt chrome-plated steel tube construction with chrome-plated ratchet and high-quality plastic components.
- Double scale N-m and lbf-ft underneath a window with a magnifying-glass effect.
- Additional micrometer scale with a N-m-graduation of 0.25Nm.
- Ergonomically shaped handy black plastic handle.
- Handle with an indentation in the middle of the handgrip as a calibration aid.



KL-0122-80..

"Swivel Grip" Oil Filter Wrench

Designed to loosen oil filters.

Self-adjusting mechanism allows the stainless steel band to re-adjust itself while loosening the filter. Swivel handle can be angled up to 90° via a pivot joint. THE ideal tool for use in confined spaces.

KL-0122-801 "Swivel Grip" Oil Filter Wrench, Ø 60-66mm

Technical Data:

Range:	Ø 60-66mm
Weight:	310g

KL-0122-802 "Swivel Grip" Oil Filter Wrench, Ø 73-82mm

Technical Data:

Range:	Ø 73-82mm
Weight:	370g

KL-0122-803 "Swivel Grip" Oil Filter Wrench, Ø 89-98mm

Technical Data:

Range:	Ø 89-98mm
Weight:	370g

KL-0122-804 "Swivel Grip" Oil Filter Wrench, Ø 105-112mm

Technical Data:

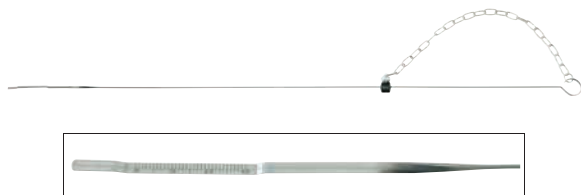
Range:	Ø 105-112mm
Weight:	400g

KL-0288-80

Oil Dipstick for VW-Audi

Suitable for use on VW-Audi vehicles equipped with either a petrol or Diesel direct-injection engine and an electronic oil level indicator (1.8 TFSI, 2.0 TFSI, 3.0 TFSI, 3.2 FSI, 2.0 TDI, 2.7 TDI and 3.0 TDI); e.g. found on Audi A4, A5, A7, A8, Q5 and VW Touareg.

Designed to manually check the engine oil level; for example, necessary when the oil sensor has been replaced.



KL-0288-20 K

Oil Filter Tool Set with Oil Drain Adaptor, VW

Suitable for use on VW-Audi, Seat and Škoda 1.8 and 2.0 FSI/TFSI petrol engines equipped with a plastic oil filter housing. Fitted to, e.g.: Audi A3 (8P1, 8PA), A4 (8EC, 8ED, 8H7, 8HE), A6 (4F2, 4F5), TT (8J3, 8J9); Seat Altea (5P1, 5P5), Leon (1P1), Toledo (III [P2]); Škoda Octavia (1Z3, 1Z5); VW Eos, Golf (V [1K1, 5M1]), Jetta (III [1K2]), New Beetle (9C1, 1C1, 1Y7), Passat (3C2, 3C5), Touran (1T1, 1T2). (Engine codes: AXW, BGB, BLX, BLR, BLY, BVX, BVY, BVZ, BWE)

The oil filter tool set with oil drain adaptor for VW allows the user to professionally drain the engine oil from the oil filter housing. It includes all the necessary tools to open, drain and unscrew/tighten plastic oil filter housings. First, undo the oil drain plug (waf 37mm) on the plastic oil filter housing using the oil drain plug socket. Next, screw oil drain adaptor into oil filter housing. This will cause a valve to open allowing the oil to be drained in a controlled way. Then, the empty oil filter housing can be easily unscrewed with the aid of the 74mm (waf) oil filter socket. The set is also intended to loosen/tighten plastic oil filter housings having a size of 36mm waf.



Scope of Delivery:

KL-0288-20 K Oil Filter Tool Set with Oil Drain Adaptor, VW

Part No.	Description	Qty
KL-0122-3	Oil Filter Socket, Size (waf) 74mm, 14 Flats	1
KL-0122-5	Oil Filter Socket, Size (waf) 36mm	1
KL-0288-10	Oil Drain Adaptor for Oil Filter	1
KL-0122-54	Oil Drain Plug Socket, Size (waf) 37mm	1
KL-0288-2090	Plastic Storage Case	1

KL-0288-10

Oil Drain Adaptor for Oil Filter

Suitable for use on VW-Audi 1.8 and 2.0 litre engines, e.g.: Audi A3 (8P1, 8PA), A4 (8EC, 8ED, 8H7, 8HE), A6 (4F2, 4F5), TT (8J3, 8J9); Seat Altea (5P1, 5P5), Leon (1P1), Toledo (III (5P2)); Škoda Octavia (1Z3, 1Z5); VW Eos, Golf (V (1K1, 5M1)), Jetta (III (1K2)), New Beetle (9C1, 1C1, 1Y7), Passat (3C2, 3C5), Touran (1T1, 1T2). (Engine codes: AXW, BGB, BLX, BLR, BLY, BVX, BVY, BVZ, BWE)

Allows the user to professionally drain the engine oil from the oil filter housing. Then, the empty oil filter housing can be removed without any trouble.

When screwing in the oil filter adaptor, a valve in the oil filter housing will be opened so that the oil can be drained in a controlled way.



6

Technical Data:

Length of hose:	800mm
Connection thread:	S32x2

KL-0288-11

Oil Filler Adaptor for VW DSG Gearbox

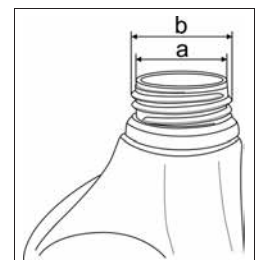
Suitable for use on VW-Audi DSG gearboxes.

This tool is indispensable for the quick, easy and clean filling/re-filling of DSG gearboxes. The oil filler adaptor is screwed directly to the 1 litre oil reservoir (VAG G 052 182 A2).

The built-in shut-off valve ensures that the accurate quantity of oil is filled in, as well as professional working.

Technical Data:

Hose length:	2m
Gearbox connection thread:	M24x1.5
Dimensions of oil reservoir (a):	34mm
Dimensions of oil reservoir (b):	37.7mm



KL-0288-12

Oil Filler Adaptor for Audi DSG Gearbox

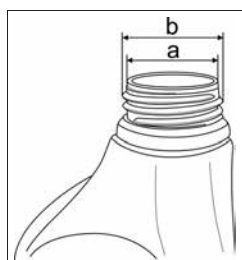
Suitable for use on Audi DSG gearboxes from 2008 onwards.

This tool is indispensable for the quick, easy and professional filling/re-filling of DSG gearboxes. The oil filler adaptor is screwed directly to the 1 litre oil reservoir (VAG G 052 529 A2).

The built-in shut-off valve ensures that the accurate quantity of oil is filled in, as well as professional working.

Technical Data:

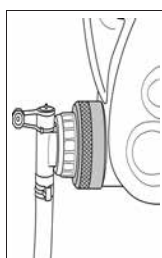
Hose length:	2m
Gearbox connection thread:	M24x1.5
Dimensions of oil reservoir (a):	36.5mm
Dimensions of oil reservoir (b):	39.5mm



KL-0288-112

Adaptor for KL-0288-11

The **KL-0288-112** adaptor is used in conjunction with oil filler adaptor **KL-0288-11**. It is designed to connect DSG gearboxes to the 5 litre oil reservoirs from Febi (32390), Ravenol or Pentosin, thus enabling these gearboxes to be filled up directly.



KL-0288-13

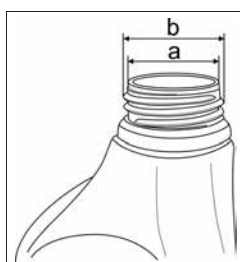
Oil Filler Adaptor for VW CVT Gearbox (Continuously Variable Transmission)

Suitable for use on VW-Audi CVT transmissions (continuously variable transmission) (Multitronic).

This tool is indispensable for the quick, easy and professional filling/re-filling of CVTs (continuously variable transmissions). The oil filler adaptor is screwed directly to the 1 litre oil reservoir (VAG G 052 180 A2). The built-in shut-off valve ensures that the accurate quantity of oil is filled in, as well as professional working.

Technical Data:

Hose length:	2m
Gearbox connection thread:	M22x1.5
Dimensions of oil reservoir (a):	36.5mm
Dimensions of oil reservoir (b):	39.5mm



KL-0288-14

Oil Filler Adaptor for VW Haldex Clutches

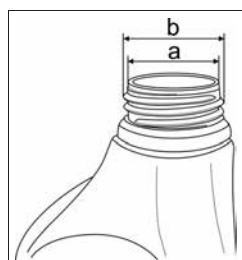
Suitable for use on VW-Audi Haldex-clutches.

This tool is indispensable for the quick, easy and professional filling/re-filling of Haldex clutches.

The oil filler adaptor is screwed directly to the 1 litre oil reservoir (VAG G 055 175 A2). The built-in shut-off valve ensures that the accurate quantity of oil is filled in, as well as professional working.

Technical Data:

Hose length:	2m
Clutch connection thread:	M10x1
For dimensions of the oil reservoir (a):	34mm
For dimensions of the oil reservoir (a):	37.7mm



KL-0124-43

Oil Pump with 12 Litre Reservoir

Universal field of application.

Ideal for use on the gearboxes found in VW-Audi, Ford, BMW, Honda, Nissan, Toyota, Mercedes, Volvo vehicles.

The oil pump with 12 litre reservoir facilitates the quick and safe filling/topping up of gearbox, differential, engine, power steering etc.

The reservoir can be pressurised quickly and easily with the aid of compressed air. This allows the user to have both hands free to accurately dose the necessary vehicle-specific operating liquid. Alternatively, the filling/topping up can also be carried out by operating the hand pump on the reservoir.

The oil pump with reservoir allows for the quick, easy and professional filling/topping up even in confined space conditions or where access is difficult.

Thanks to the universal and the vehicle-specific adaptors that come with the kit, the oil pump with reservoir is suitable for a wide range of applications.

Accessories:

The **KL-0124-433** reservoir (12l) with lid, which is available separately as an accessory, is designed for the quick and safe filling and storage of different types of oil.

Note: Additional reservoir with lid available as accessory (to be ordered separately).

Technical Data:

Reservoir capacity (with pump):	12 litre
Cracking pressure of the pressure relief valve:	1bar (14psi)
Maximum pressure:	2.5bar (35psi)

Scope of Delivery:

KL-0124-43 Oil Pump with 12 Litre Reservoir

Part No.	Description	Qty
KL-0124-4311	Reservoir (12l) with Pump	1
KL-0124-4332	Lid	1
KL-0124-4312	Hook	1
KL-0124-4313	Filling Hose with Ball Valve	1
KL-0124-432 K	Adaptors in a Storage Case	1

Scope of Delivery:

KL-0124-432 K Adaptor Assortment, in a Storage Case

Part No.	Description	Qty
KL-0124-4358-0	Adaptor for VW Gearbox	1
KL-0124-4358-1	Adaptor for Toyota Gearbox	1
KL-0124-4358-2	Adaptor BMW, Honda, Nissan	1
KL-0124-4358-3	Adapter (short) for VW Gearbox	1
KL-0124-4358-4	Adapter (long), for VW Gearbox	1
KL-0124-4358-5	Adaptor for VW Gearbox (M10x1.0)	1
KL-0124-4358-6	Adapter for VW-Audi DSG Gearbox (M24x1.5)	1
KL-0124-4358-7	Adaptor for Audi CVT Gearbox (M22x1.5)	1
KL-0124-4358-8	Adaptor for Mercedes 722.9 Gearbox (M12x1.5)	1
KL-0124-4358-9	Adaptor for Volvo Gearbox (5/16-24)	1
KL-0124-4390	Plastic Storage Case	1



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KL-0124-433

Reservoir (12 Litre) with Lid

Additional reservoir for KL-0124-43 if different types of oil are to be used.

The **KL-0124-433** reservoir (12 Litre) with lid is designed for the quick and safe filling and storage of different types of oil.

Scope of Delivery:

KL-0124-433 Reservoir (12 Litre) with Lid

Part No.	Description	Qty
KL-0124-4331	Reservoir (12 Litre) with Lid (empty)	1
KL-0124-4332	Lid without connections	1





KL-0288-30

Bit Socket for Oil Drain Plug, VW-Audi

Suitable for use on the VW-Audi 1.2, 1.4, 1.8 and 2.0 TFSi, as well as the 1.6 and 2.0 TDI engines equipped with a plastic oil drain plug (M14x1.5x22mm) with special profile. Engines installed, for example, in Audi A1, A3, A4, A5, Q5 and VW Golf VII etc.

Designed for the professional loosening/tightening of plastic oil drain plugs with special profile as found on oil sumps made of plastic. Necessary, for example, when changing the oil etc.

Technical Data:

Size waf (drive):	10mm
Overall length:	35mm

KL-0231-2

Multi-Spline Socket, XZN, M16

Applicable to Audi A3, A4, A6; VW Fox, Golf (IV), LT.

This special socket features an inner bore and is therefore the ideal tool for oil drain plugs and oil control plugs on gearboxes.



Technical Data:

Drive:	1/2"
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KL-0122-902

Oil Service Tool, Size (waf) 8mm/10mm (square)

Applicable to, e.g. Citroën, Renault, Peugeot etc.

Designed to loosen and tighten the oil drain plug at the engine. Also intended for use on the control plug at the gearbox/differential.



Technical Data:

Length:	220mm
Weight:	350g
Size waf (external square):	8 and 10mm

KL-4041-3045

Screwdriver Bit Socket, T45

For example, suitable for use on Opel/Vauxhall.

Designed to loosen and tighten the Torx® T45 oil drain plugs.



Technical Data:

Drive:	1/2"
Length:	55mm
Weight:	85g

* = reg. trademark of Acument Intellectual Properties, LLC. USA

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-4022-241

Socket Insert Set "Ball Head"

Extra-long design with ball head.

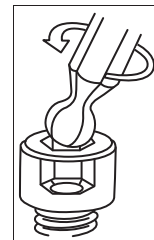
Ideal for loosening and tightening internal hex socket screws that sit very deep or are hard to access e.g. on the oil pan, cylinder head, engine, drive, etc.

Application examples:

- **KL-4022-2405** For oil sump bolts in VW T4 5-cylinder engines.
- **KL-4022-2408** Removal and installation of knock sensor on Audi V6 engines.

Scope of Delivery: KL-4022-241 Socket Insert Set "Ball Head"

Part No.	Description	Qty
KL-4022-2405	Socket Insert, „Ball Head“, Size (waf) 5	1
KL-4022-2406	Socket Insert, „Ball Head“, Size (waf) 6	1
KL-4022-2408	Socket Insert, „Ball Head“, Size (waf) 8	1
KL-4022-2410	Socket Insert, „Ball Head“, Size (waf) 10	1



Technical Data:

Drive:	1/2"
Length:	288mm

KL-0100-6

Extension (Length 600mm)

This tool is essential when performing work at the gearbox, engine and exhaust system.

Technical Data:

Drive:	1/2" to 3/8"
Length:	600mm



1/2"

3/8"

KL-0132-47 K

Repair Kit for M12x1.5 Oil Drain Thread

Suitable for use on Alfa Romeo, Fiat and Lancia 1.4 litre Turbo such as Alfa Romeo Mito, Giulietta; Fiat Nuova 500 Abarth, Grande Punto, Nuova Bravo and Lancia Nuova Delta.

This repair kit is designed to repair the M12x1.5 oil drain plug retaining thread at the oil sump. By means of the special tap included in the kit, the old thread is drilled out and a new M14x1.5 sump plug retaining thread is being recut at the same time.

Scope of delivery: KL-0132-47 K Repair Kit for M12x1.5 Oil Drain Thread

Part No.	Description	Qty
KL-0132-4701	Special Tap for M12x1.5 Thread	1
KL-0132-4702	Set of Sump Screw Plugs, M14x1.5 (5-pc.)	1
KL-0132-4703	Set of Aluminium Sealing Rings, Ø 14x18x1.5mm (5-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



6

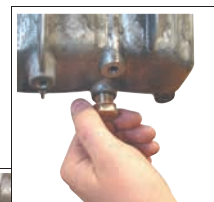
KL-0132-48 K

Repair Kit for M14x1.5 Oil Drain Plug Thread

This repair kit is designed to repair the M14x1.5 oil drain plug retaining thread at the oil sump. By means of the special tap included in the kit, the old thread is drilled out and a new M15x1.5 sump plug retaining thread is being recut at the same time.

Scope of Delivery: KL-0132-48 K Repair Kit for M14x1.5 Oil Drain Plug Thread

Part No.	Description	Qty
KL-0132-481-1	Special Tap for M14x1.5 Thread	1
KL-0132-482	Set of Sump Screw Plugs, M15x1.5 (5-pc.)	1
KL-0132-484	Set of Aluminium Sealing Rings, Ø 15x20x1.3mm (5-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1





KL-0132-49 K Repair Kit for M16x1.5 Oil Drain Thread

This repair kit is designed to repair the M16x1.5 oil drain plug retaining thread at the oil sump. By means of the special tap included in the kit, the old thread is drilled out and a new M17x1.5 sump plug retaining thread is being recut at the same time.

Scope of Delivery:

KL-0132-49 K Repair Kit for M16x1.5 Oil Drain Thread

Part No.	Description	Qty
KL-0132-4901	Special Tap for M16x1.5 Thread	1
KL-0132-4902	Set of Sump Screw Plugs, M17x1.5 (5-pc.)	1
KL-0132-4903	Set of Sealing Rings (5-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



KL-0132-590 KA Thread Repair Kit

Applicable to glow plug threads M10x1 and M12x1.25 as well as oil sump plug thread M14x1.5 and M16x1.5; also suitable for injector nozzle fixing screw thread M6.

This tool set is indispensable for the quick and easy cleaning or repair of threads on aluminium cylinder heads and aluminium oil sumps.

Field of application: Aluminium Cylinder Head:

Glow plug thread: The dirty thread M10x1 is cleaned and recut by using the thread cleaning tool.

The damaged thread is drilled up by means of the special drill. Then, with the aid of the special tap, a new thread with M12x1 or M14x1.25 is cut to retain the threaded inserts with an internal thread of M10x1 or M12x1.25.

Injector nozzle fixing screw thread: The M6 threaded inserts are screwed into the injector nozzle fixing screw thread that has been drilled up to M8x1 for the repair.

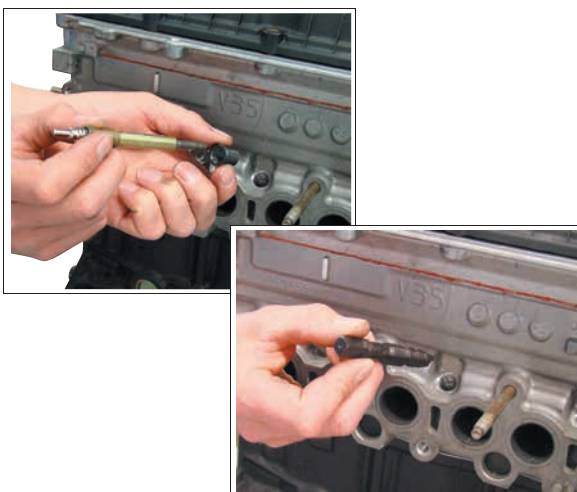
Field of application: Aluminium Oil Sump:

With the aid of the special tap (M14x1.5 or M16x1.5), the old thread is drilled out and a new sump plug retaining thread is being cut at the same time.

Scope of Delivery:

KL-0132-590 KA Thread Repair Kit

Part No.	Description	Qty
KL-0132-583	Set of Threaded Sleeves, M6, 20mm long (10-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" Drive	1
KL-0132-481-1	Special Tap for M14x1.5	1
KL-0132-482	Set of Sump Screw Plugs (5-pc.)	1
KL-0132-484	Set of Aluminium Sealing Rings, Ø 15x20x1.3mm (5-pc.)	1
KL-0132-4901	Special Tap for M16x1.5	1
KL-0132-4902	Set of Sump Screw Plugs, M17x1.5 (5-pc.)	1
KL-0132-4903	Set of Sealing Rings (Aluminium), Ø 24x17.1x1.5mm (5-pc.)	1
KL-0132-501-1	Special Drill for Threaded Inserts, M12x1.25	1
KL-0132-502-1	Special Tap for Threaded Inserts, M12x1.25	1
KL-0132-412	Threaded Inserts, M12x1.25x11 (10 units)	1
KL-0132-511-1	Thread Cleaning Tool, M10x1	1
KL-0132-512 A	Threaded Inserts, M10x1x10 (10 units)	1
KL-0132-513-1	Special Drill for Threaded Inserts, M10x1	1
KL-0132-514-1	Special Tap for Threaded Inserts, M10x1	1
KL-0132-5990	Plastic Storage Cse	1



KL-0284-21

Exhaust Spring Clamp Tool

(short design), Length 145mm

Intended for use on the exhaust steel clamps of VW Golf, Passat, etc.

For the removal and replacement of steel clamps on the flange on exhaust manifolds, as installed in **VW, Audi, Seat and Škoda** vehicles.



KL-0121-171

Exhaust Manifold Clamp Pliers

with Locking Lever

Applications: Citroën, Renault, Peugeot etc.

The **KL-0121-171** pliers enable the easy and trouble-free widening of exhaust manifold clamps, e.g. on the silencer. The built-in locking lever ensures that the widened exhaust manifold clamp is kept open safely.

Technical Data:

Length:	300mm
Weight:	600g



KL-0132-8

Lambda Sensor Socket, 17mm (waf), hexagonal

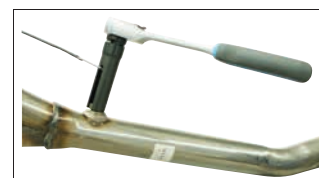
Designed for the removal and installation of Lambda sensors on **Nissan, Renault** and other vehicles.

Technical Data:

Size (waf):	17mm
Drive:	1/2", axial
Length:	100mm
Weight:	260g



1/2"



KL-0132-81

Lambda Sensor Socket, 22mm (waf), hexagonal

Ideal for the Mercedes M111 etc.

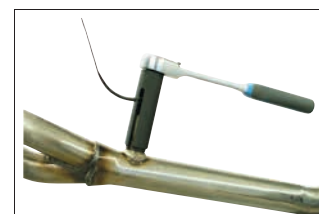
For removing and installing lambda sensors with a deep-seated hexagon.

Technical Data:

Size (waf):	22mm
Drive:	1/2", axial
Length:	110mm
Weight:	300g



1/2"



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet





1/2"



KL-0132-84

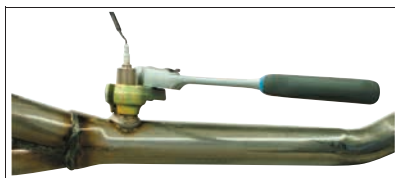
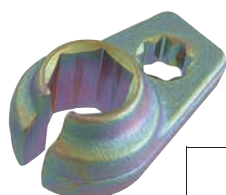
Lambda Sensor Socket, 22mm (waf), hexagonal

Applicable to Ford Fiesta VI (models from 07/2008 onwards) 1.25 Zetec S DOHC EFI; 1.4 Zetec DOHC EFI and 1.6 Zetec DOHC EFI engines.

This tool is required for the quick and trouble-free removal and installation of Lambda sensors. Due to its special design, this socket is particularly suitable for Lambda sensors having a very deep-seated hexagon or fitted with a heat shield.

Technical Data:

Size (waf):	22mm
Drive:	1/2"
Length:	110mm



KL-0132-6

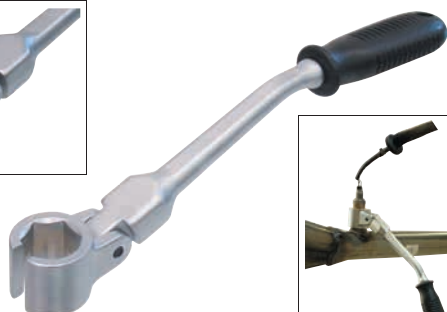
Lambda Sensor Socket, 22mm (waf)

Applications: VW-Audi, BMW, Mercedes, Ford, Opel/Vauxhall, Peugeot, Citroën, Renault, Seat, Škoda, Japanese cars, etc.

Facilitates the removal and installation of hard-to-reach Lambda sensors.

Technical Data:

Size (waf):	22mm
Drive:	1/2", axially displaced
Length:	110mm
Weight:	234g



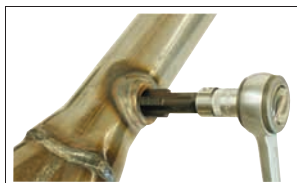
KL-0132-82 A

Lambda Tool Kit, Size (waf) 22mm

This tool is designed for the quick and easy removal and replacement of Lambda sensors that are hard to access, e.g. when the Lambda sensor is located directly in front of the splashboard. The pivot head features a hexagonal socket on one side and a bihexagonal socket on the other side.

Technical Data:

Size (hexagonal / bihexagonal):	22mm waf
Length:	280mm
Weight:	480g



KL-0132-12 K

Lambda Sensor Tool Kit

Suitable for Lambda sensor thread M18x1.5.

If damage occurs to the thread of the exhaust manifold while replacing a Lambda sensor, the thread can be recut with the aid of the **KL-0132-120-1** screw tap (for M18x1.5 thread). If this is not possible, the damaged thread can be drilled out using the special screw tap **KL-0132-121-1** and a new thread M20x1.5 can be recut at the same time to retain the **KL-0132-122** threaded inserts with internal thread M18x1.5.

Technical Data:

Lambda-Probe Thread:	M18x1.5
Weight:	498g

Scope of Delivery:

KL-0132-12 Lambda Sensor Tool Kit

Part No.	Description	Qty
KL-0132-120-1	Screw Tap, M18x1.5	1
KL-0132-121-1	Special Screw Tap (for M18x1.5)	1
KL-0132-122	Threaded Inserts M18x1.5 (10 pcs.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-0131-5

Chain Pipe Cutter

Universal.

Allows the professional cutting of exhaust pipes up to a diameter of 85mm at only 90° rotation.

Big cutting wheels with a Ø of 19mm enable trouble-free separation of even corroded exhaust pipes up to a thickness of 3.0mm.

Technical Data:

Weight:	490g
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KL-0131-5001



KL-0131-5001

Spare Chain

KL-0131-51

Chain Pipe Cutter

This tool is used to cut exhaust pipes with a wall thickness of up to 2.5mm and a Ø of 70mm.

Also suitable for stainless steel pipes.

Thanks to the special design of the tool, only a minimum expenditure of force is required throughout the whole cutting operation.

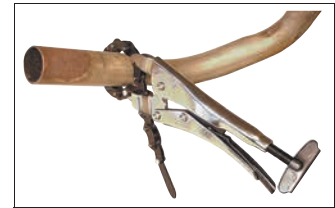
The wing screw allows for the necessary adjustment while cutting.

Technical Data:

Length:	250mm
---------	-------

Note:

By attaching a second chain, the cutter can be used on pipes with larger diameters.



KL-0131-5101



KL-0131-5101

Spare Chain

Technical Data:

Length:	270mm
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224021 CODE 1600885

Ratchet Pipe Cutter niro

Body in zinc-plated pressure-cast aluminium, for pipes 35-66mm Ø, cutting wheel made from high-alloy stainless steel, especially for cutting stainless steel pipes with high service life. Easy handling via ratchet feed with automatic infeed of the cutting wheel with every rotation, even in confined spaces.

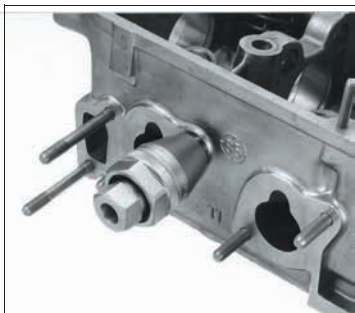
Technical Data:

Length:	275mm
Weight:	580g



224211

Replacement Cutting Wheel



KL-0181-1 Stud Tool, 3/8"

(Universal)

Universal tool, infinitely adjustable.

Designed to screw in and unscrew studs with diameter of 6-12mm.

Advantages:

- Infinitely adjustable.
- Suitable for use in very limited space conditions.
- Also suitable for screws with rusted or stripped threads.
- Also suitable for screws with undersize.

Technical Data:

Drive:	3/8"
Clamping range:	6-12mm
Weight:	450g

KL-0185-5 Drill Guide Kit

(Universal)

This universal adjustable drill guide kit allows broken or sheared studs-especially on cylinder-heads or exhaust manifolds to be quickly and accurately extracted, without the need to remove the cylinder-head. (Male Thread M8 and M10)

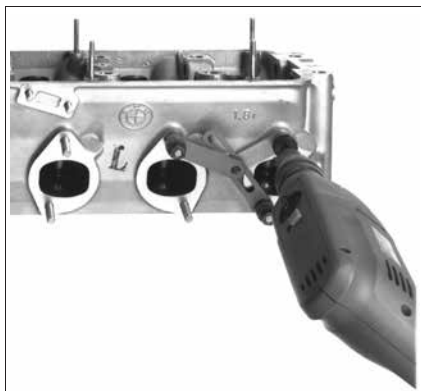
Advantage:

- Time savings of between 2 and 4 hours can be achieved as the cylinder head has not to be removed from the vehicle.

Scope of Delivery:

KL-0185-5 Drilling Guide Set

Part No.	Description	Qty
KL-0185-5001	Drill Guide Jig (complete)	1
KL-0185-5002	Centring Pin (conical)	3
KL-0185-5003	Guide Sleeve, Ø 8mm	3
KL-0185-5004	Guide Sleeve, Ø 10mm	3
KL-0185-1015	Hex Shoulder Nut, M8	2
KL-0185-5005	Hex Shoulder Nut, M10	2
KL-0185-1005/1	Drill Bush, 4.0mm, with Cylindrical Pin	1
KL-0185-1005/2	Drill Bush, 6.5mm, with Cylindrical Pin	1
KL-0185-1005/3	Drill Bush, 8.5mm, with Cylindrical Pin	1
KL-0185-1007/2	Guide Sleeve, M8	1
KL-0185-5007	Guide Sleeve, M10	1
KL-0185-1003/1	Drill Limit Stop, 4.0mm, with Cheese Head Screws	1
KL-0185-1003/2	Drill Limit Stop, 6.5mm, with Cheese Head Screws	1
KL-0185-1003/3	Drill Limit Stop, 8.5mm, with Cheese Head Screws	1
KL-0185-5008	Hexagon Socket Key, 2mm	1
KL-0050-0023	Hexagon Socket Key, 4mm	1
KL-0185-5010	Hexagon Socket Key, 5mm	1
KL-0185-1009	Twist Drill, Ø 4.0mm	1
KL-0185-1010	Twist Drill, Ø 6.5mm	1
KL-0185-1011	Twist Drill, Ø 8.5mm	1
KL-0185-5020 A	Plastic Storage Case	1





Clutch Repairs

7

KL-0500-45 KA Clutch Tool Set (SAC), in a Plastic Storage Case

[Pat.]



Product Demo Video

Suitable for Self-Adjusting Clutches (with 6 and 8 bolt holes); e.g. on VW-Audi, BMW, Mercedes, Volvo, Opel/Vauxhall, Renault etc.

The **KL-0500-45 KA** clutch tool set is indispensable for the professional removal and installation of Self-Adjusting Clutches (SAC).

Correct removal and installation of this type of clutch is virtually impossible without the use of our tool set. Using the wrong tool risks damaging or distorting the clutch. This will result in incorrect separation or 'grabbing' of the clutch. Distorted or incorrectly mounted clutches are defective and must always be replaced.

The **KL-0500-45 KA** tool set prevents damage to the SAC when removing and installing it. Also, the risk of distorting the adjuster ring in the clutch pressure plate is eliminated using this tool.

The newly developed clutch aligner **KL-0500-405** enables clutch discs to be centred also on vehicles that do not feature a pilot bearing in the crankshaft. The two clamping-/centring elements ensure, on the first clamping element (Ø 15-28mm) the accurate centring in the clutch disc, and on the second element (Ø 12-28mm) the accurate centring in the pilot bearing, respectively the crankshaft bore.

Even clutches on engines where the crankshaft bore Ø is greater than the clutch disc hub Ø can be aligned neatly and accurately thanks to this tool.

Advantages:

- Enables the clutch pressure plate to be pretensioned during removal and installation (important as a means of avoiding distortion on the clutch).
- Enables the clutch disc to be centred relative to the pilot bearing or to the pressure plate.
- Enables the adjuster ring to be reset, when used in conjunction with reset tool **KL-0500-403**.

Example of Clutch (SAC) Removal



1. Insert clutch aligner into clutch and tighten it.



2. Unscrew 3x clutch pressure plate fastening screws. Replace with threaded bolts. Install clutch pre-compressor.



3. Compress diaphragm spring. Unscrew remaining fastening screws. Release pressure on diaphragm spring.



4. Remove knurled nuts and clutch pre-compressor. Remove clutch aligner and threaded bolts.



5. Remove clutch pressure plate.



6. Remove clutch disc.

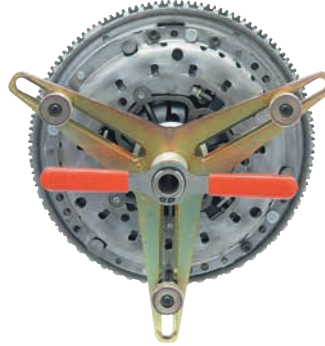
KL-0500-45 KA Clutch Tool Set (SAC), in a Plastic Storage Case

(Pat.)

Resetting the Adjuster Ring



7. Install clutch pressure plate without clutch disc.



8. Screw in threaded bolts.
Mount clutch pre-compressor.



9. Compress diaphragm spring.



10. Insert reset tool. Turn back adjuster ring.



11. Release pressure on diaphragm spring.
Remove reset tool.



12. Remove knurled nuts, clutch
pre-compressor and threaded bolts.
Remove clutch pressure plate.

Example of Clutch (SAC) Installation



13. Insert clutch aligner and clutch disc
into flywheel. Tighten clutch aligner.



14. Position clutch pressure plate.



15. Screw down threaded bolts.
Mount clutch pre-compressor.



16. Compress diaphragm spring.
Screw in fastening screws.
Release pressure on diaphragm spring.



17. Remove knurled nuts, clutch
pre-compressor and threaded bolts.
Remove clutch aligner.



18. Screw in and tighten down the clutch
pressure plate fastening screws.

7



Application Video



KL-0500-45 KA Clutch Tool Set (SAC), in a Plastic Storage Case

(Patented)

Suitable for Self-Adjusting Clutches (with 6 and 8 bolt holes); e.g. on VW-Audi, BMW, Mercedes, Volvo, Opel/Vauxhall, Renault etc.

The **KL-0500-45 KA** clutch tool set is indispensable for the professional removal and installation of Self-Adjusting Clutches (SAC).

Scope of Delivery:

KL-0500-45 KA Clutch Tool Set (SAC), in a Plastic Storage Case

Part No.	Description	Qty
KL-0500-401	Clutch-Pretensioning Tool (3-hole pitch)	1
KL-0500-403	Reset Tool	1
KL-0500-404	Set of Clutch-Centring Pins (3-pc)	1
KL-0500-405	Clutch Aligner	1
KL-0500-4014	Upgrade Kit (4-hole pitch)	1
KL-0500-4590	Plastic Storage Case	1

Scope of Delivery:

KL-0500-401 Clutch-Pretensioning Tool

Part No.	Description	Qty
KL-0500-401-1	Clutch-Pretensioning Tool (Base Tool)	1
KL-0500-4006	Knurled Nut	1
KL-0500-4007	Threaded Bolt, M6	1
KL-0500-4008	Threaded Bolt, M7	1
KL-0500-4009	Threaded Bolt, M8	1

Scope of Delivery:

KL-0500-404 Set of Clutch-Centring Pins

Part No.	Description	Qty
KL-0500-11	Clutch-Centring Pin, Ø 23mm	1
KL-0500-12	Clutch-Centring Pin, Ø 28mm	1
KL-0500-21	Clutch-Centring Pin, Ø 32.5mm	1

Scope of Delivery:

KL-0500-405 Clutch Aligner

Part No.	Description	Qty
KL-0500-4050	Guide Tube (complete)	1
KL-0500-4057-1	Centring Pin, Ø 12mm	1
KL-0500-4057-2	Centring Pin, Ø 14mm	1
KL-0500-4057-3	Centring Pin, Ø 15mm	1
KL-0069-0006	Clamping Cone, Size 2, 22mm	1
KL-0500-4055	Cone Adaptor	1
KL-0500-4054	Set of Clamping Elements, Ø 20mm	1
KL-0500-4056-2	Sliding Cone, Ø 15mm, 40mm long	1
KL-0500-4056-3	Sliding Cone, Ø 15mm, 67mm long	1
KL-0500-4056-4	Sliding Cone, Ø 15mm, 75mm long	1
KL-0500-4056-6	Sliding Cone, Ø 18mm, 75mm long	1
KL-0500-4056-5	Sliding Cone, Ø 18mm, 67mm long	1

Scope of Delivery:

KL-0500-4014 Upgrade Kit (4- hole pitch) for KL-0500-40 K and KL-0500-45 K

Part No.	Description	Qty
KL-0500-4006	Knurled Nut	1
KL-0500-4006 A	Knurled Nut	1
KL-0500-4007	Threaded Bolt, M6	1
KL-0500-4008	Threaded Bolt, M7	1
KL-0500-4009	Threaded Bolt, M8	1
KL-0500-4011	Base Plate, with 4-hole pitch	1



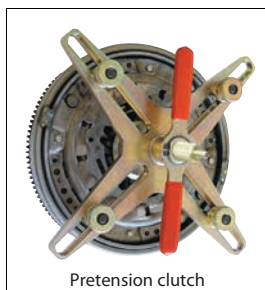
Self-adjusting clutch (SAC)



Align clutch disc



Position clutch pressure plate



Pretension clutch



Turn back adjuster ring

KL-0500-15

Clutch-Centring Pin, Ø 26.5mm, BMW/Audi

Applicable to BMW and Audi.

Designed to align the clutch disc before the re-installation of a pretensioned self-adjusting clutch (SAC). Can also be used to align new and already pretensioned SACs.



KL-0500-20

Clutch-Centring Pin, Ø 26.5mm

Applicable to BMW E36, E39, E46, E87 equipped with a 55D-250G gearbox.

This tool is used for centring the clutch disc before the re-installation of a pretensioned self-adjusting clutch (SAC). Can also be used to align new and already pretensioned SACs.



KL-0500-23

Clutch-Centring Pin, Ø 32.5mm

Suitable for the BMW vehicles equipped with a G56-53DG gearbox and S65 (V8) or S85 (V10) engine: E92 (M3), E60 (M5) and E63 (M6).

This tool is used for centring the clutch disc before installing or re-installing a self-adjusting clutch (SAC).



KL-0500-22

Clutch-Centring Sleeve, Ø 32.5mm, BMW

Suitable for BMW vehicles with a N54B30 engine, e.g. E90/E91/E92/E93 (335i)

This tool is used for centring the clutch disc before installing or re-installing a self-adjusting clutch (SAC)

Technical Data:

Inner Ø:	15mm
Outer Ø:	32.5mm

Scope of Delivery:

KL-0500-22 Clutch Centring Sleeve Ø 32.5 mm

Part No.	Description	Qty
KL-0015-0010 A	Hex screw M5x45mm	1
KL-0500-2201	Centring sleeve	1



KL-0149-131

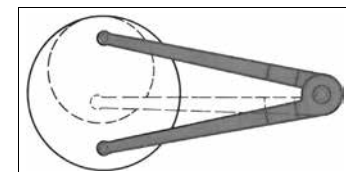
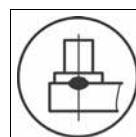
Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm

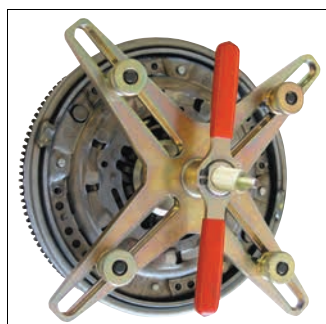
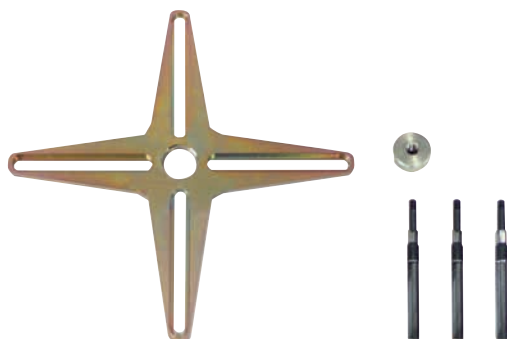
Suitable for VW-Audi, Fiat etc.

Designed to remove the pre-tension ring when installing a new SAC (Self-Adjusting Clutch) on Audi, Fiat etc.

Technical Data:

Ø:	14-100mm
Pin Ø:	5mm
Pin height:	6mm
Overall length:	215mm
Weight:	300g





KL-0500-4014

Upgrade Kit (4-hole pitch)
for KL-0500-40 K and KL-0500-45 K

Base plate with 4-hole pitch. Required for pretensioning the clutch pressure plate before removing and installing an SAC featuring 8 bore holes.

Scope of Delivery:

KL-0500-4014 Upgrade Kit (4- hole pitch) for KL-0500-40 K and KL-0500-45 K

Part No.	Description	Qty
KL-0500-4006	Knurled Nut	1
KL-0500-4006 A	Knurled Nut	1
KL-0500-4007	Threaded Bolt, M6	1
KL-0500-4008	Threaded Bolt, M7	1
KL-0500-4009	Threaded Bolt, M8	1
KL-0500-4011	Base Plate, with 4-hole pitch	1



KL-0500-405

(Patented)

Clutch Aligner

Suitable for Self-Adjusting Clutches (SAC).

Essential tool for vehicles without a pilot bearing in the crankshaft.

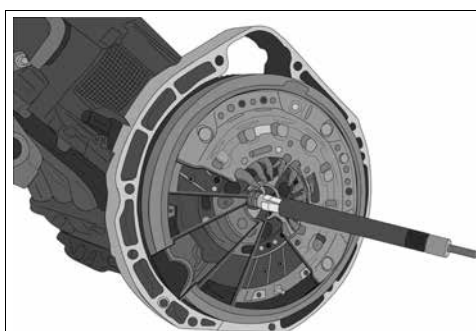
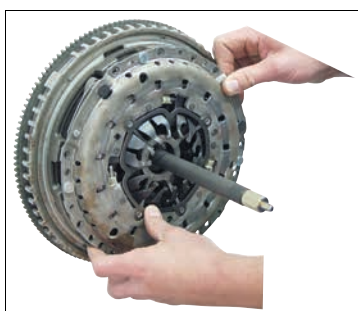
The newly developed clutch aligner **KL-0500-405** enables clutch discs to be centred also on vehicles that do not feature a pilot bearing in the crankshaft. The two clamping-/centring elements ensure, on the first clamping element (Ø 15-28mm) the accurate centring in the clutch disc, and on the second element (Ø 12-28mm) the accurate centring in the pilot bearing, respectively the crankshaft bore.

Even clutches on engines where the crankshaft bore Ø is greater than the clutch disc hub Ø can be aligned neatly and accurately thanks to this tool.

Scope of Delivery:

KL-0500-405 Clutch Aligner

Part No.	Description	Qty
KL-0500-4050	Guide Tube (complete)	1
KL-0500-4057-1	Centring Pin, Ø 12mm	1
KL-0500-4057-2	Centring Pin, Ø 14mm	1
KL-0500-4057-3	Centring Pin, Ø 15mm	1
KL-0069-0006	Clamping Cone, Size 2, 22mm	1
KL-0500-4055	Cone Adaptor	1
KL-0500-4054	Set of Clamping Elements, Ø 20mm	1
KL-0500-4056-2	Sliding Cone, Ø 15mm, 40mm long	1
KL-0500-4056-3	Sliding Cone, Ø 15mm, 67mm long	1
KL-0500-4056-4	Sliding Cone, Ø 15mm, 75mm long	1
KL-0500-4056-6	Sliding Cone, Ø 18mm, 75mm long	1
KL-0500-4056-5	Sliding Cone, Ø 18mm, 67mm long	1



KL-0500-50 K

Dual Mass Flywheel Wear-Testing Tool (For Testing On The Vehicle)

Universally suitable for vehicles equipped with Dual Mass Flywheel (DMF).

Indispensable tool for the quick and professional wear tests of Dual Mass Flywheels (DMF). Tests can be performed directly on the vehicle with the clutch removed. The test involves checking the rock allowance (axial play) and the freeplay angle (torsion of the secondary flywheel against the primary flywheel until the tension of the spring can be felt).

Note:

As a rule, Dual Mass Flywheels should always be checked for wear and damage when replacing a clutch. Professional tests are essential as Dual Mass Flywheels that are deteriorated or worn can damage the new clutch as well as the gearbox and drive train.

Advantages:

- Universal application.
- Substantial time savings.
- The tool is easy to operate.
- Professional and accurate working.

Scope of Delivery: KL-0500-50 K Dual Mass Flywheel Wear-Testing Tool (on-vehicle tests)

Part No.	Description	Qty
KL-0500-500 K	Dual Mass Flywheel Wear-Testing Tool	1
KL-4090-302	Torque Angle Gauge	1
KL-0128-1	Dial Gauge, Ø 58mm	1

Scope of Delivery: KL-0500-500 K Dual Mass Flywheel Wear-Testing Tool (without Dial Gauge, Torque Angle Gauge)

Part No.	Description	Qty
KL-0500-500	Dual Mass Flywheel Wear Testing Tool (for testing on the vehicle)	1
KL-0043-5990	Plastic Storage Case	1

Scope of Delivery:

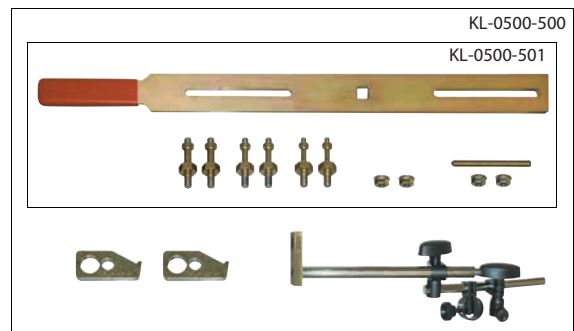
KL-0500-500 Dual Mass Flywheel Wear-Testing Tool (on-vehicle tests)

Part No.	Description	Qty
KL-0500-501	Slotted Bar with Fixing Device	1
KL-0500-502	Stand for Dial Gauge	1
KL-0481-7	Flywheel Locking Tool	2

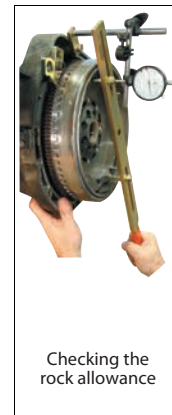
Scope of Delivery:

KL-0500-501 Slotted bar with fixing device

Part No.	Description	Qty
KL-0500-5010	Slotted Bar with Protective Handle	1
KL-0043-5922	Special Screw, M6	2
KL-0043-5923	Special Screw, M7	2
KL-0043-5924	Special Screw, M8	2
KL-0043-5925	Shoulder Nut, M8	4
KL-0500-5011	Set Screw, M8x80 (pointer)	1



Measuring the freeplay angle by number of teeth



Checking the rock allowance



Measuring the freeplay angle with degree gauge

7

KL-0128-1

Dial Gauge, Ø 58mm

Spindle and clamping shank made of stainless steel, design and measurement accuracy according to DIN 878-A.

Technical Data:

Graduation:	0.01mm
Measuring Range:	10mm
Housing -Ø:	58mm
1 pointer revolution:	1mm
Clamping shank Ø:	8mm



Tools for Double Clutch (Pat.)

KL-0500-80 K Base Toolkit for Double Clutch

Universally applicable to VW-Audi, Seat, Škoda, Renault and Ford passenger cars with dry double clutch systems. For example: VW-Audi 1st generation transmissions 0AM (until 5/2011), 2nd generation transmissions 0AM (from 6/2011 onwards); Renault DC4 and Ford DPS6 etc.

Having always the right specialist tool at hand is essential for carrying out professional repairs to double clutch systems and to avoid costly damage in the first place.

Used in conjunction with the respective vehicle-specific upgrade kit, the **KL-0500-80 K** base toolkit for double clutches allows for professional repairs to all LuK* Double Clutch Systems (dry double clutches) that are currently available on the market.

The forward-looking modular concept allows for continuous enhancement of the **KL-0500-80 K** base toolkit for double clutches with vehicle-specific upgrade kits, thus making it applicable also to future double clutch systems.

*LuK, a member of the Schaeffler Group, is an internationally renowned supplier of clutch- and transmission systems, torque converters and dampers to the Automobile Industry and Aftermarket.



KL-0500-81 K

Upgrade Toolkit for Double Clutch, VW



Applicable to VW-Audi, Seat and Škoda vehicles with dry double clutch systems. For example: 1st generation DSG transmissions 0AM (until 5/2011) and 2nd generation DSG transmissions 0AM (from 6/2011 onwards).

The **KL-0500-81 K** upgrade toolkit for double clutch is designed to be used in conjunction with the **KL-0500-80 K** (LuK 400 0418 10) base toolkit, thus allowing for the professional dismantling, assembly and adjustment of dry double clutch systems found on VW-Audi, Seat and Škoda vehicles.



KL-0500-82 K

Upgrade Toolkit for Double Clutch, Renault



Applicable to Renault vehicles with dry double clutch systems, e.g. with DC4 transmission.

The **KL-0500-82 K** upgrade toolkit for double clutch is designed to be used in conjunction with the **KL-0500-80 K** (LuK 400 0418 10) base toolkit, thus allowing for the professional dismantling, assembly and adjustment of dry double clutch systems found on Renault vehicles.

KL-0500-71 K

Reset Toolkit for Double Clutch



Applicable to Renault and Ford passenger cars equipped with a 6-speed double clutch DC4 transmission (Renault) and DPS6 transmission (Ford) respectively.

The reset toolkit upgrades the base toolkit for double clutch **KL-0500-80 K** (LuK 400 0418 10). The toolkit is designed to professionally reset/re-enable the transport lock of a double clutch that has been removed and is to be re-installed, for example, after repairs to the gearbox.

Note: All new double clutches for DC4 (Renault) and DPS6 (Ford) double clutch transmissions come provided with a transport lock. This means that no additional work needs to be carried out before the installation of a new clutch and, consequently, the **KL-0500-71** reset toolkit is not necessary.

KL-0500-83 K

Upgrade Toolkit for Double Clutch, Ford



Applicable to Ford vehicles with dry double clutch systems, e.g. with DPS6 transmissions.

The **KL-0500-83 K** upgrade toolkit for double clutch is designed to be used in conjunction with the **KL-0500-80 K** (LuK 400 0418 10) base toolkit, thus allowing for the professional dismantling, assembly and adjustment of dry double clutch systems found on Ford vehicles.

KL-0500-61 K

Update Toolkit for Double Clutch



The **KL-0500-61 K** update toolkit is designed to complement the previous LuK toolkit for double clutch (LuK 400 0240 10), so that the contents includes all the tools of the current **KL-0500-80 K** base toolkit for double clutch and **KL-0500-81 K** upgrade toolkit for VW.

KL-0069-5 Clutch Aligner

(Universal)

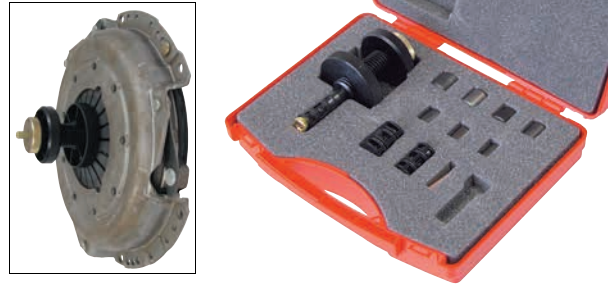
For Hub Ø: 15-28mm.

Thanks to the **parallel expansion technique** it is now possible to align the clutch disc either relative to the clutch pressure plate (on vehicles that do not feature a pilot bearing in the crankshaft) or, via the pilot bearing relative to the flywheel.

Scope of Delivery:

KL-0069-5 Clutch Aligner

Part No.	Description	Qty
KL-0069-55	Clutch Aligner for Passenger Cars	1
KL-0069-5010	Centring Sleeve Set	1
KL-0069-5030	Plastic Storage Case	1



Advantage:

The newly-developed parallel expansion technique with self-centring feature ensures that the tool remains accurately positioned in the axis of the clutch disc hub throughout the whole alignment process, thus allowing for precise centring of the clutch disc.

KL-0069-55 Clutch Aligner for Passenger Cars

(Universal)

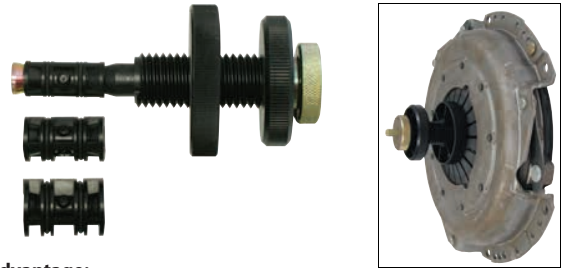
Suitable for clutch hub Ø: 15-28mm.

Thanks to the **parallel expansion technique**, it is now possible to align the clutch disc either relative to the clutch pressure plate (on vehicles that do not feature a pilot bearing in the crankshaft) or, via the pilot bearing relative to the flywheel.

Scope of Delivery:

KL-0069-55 Clutch Aligner for Passenger Cars

Part No.	Description	Qty
KL-0069-500	Clutch Aligner Base Tool	1
KL-0069-5006	Clamping Segment Set, 19mm	1
KL-0069-5007	Clamping Segment Set, 24mm	1



Advantage:

The newly-developed parallel expansion technique with self-centring feature ensures that the tool remains accurately positioned in the axis of the clutch disc hub throughout the whole alignment process, thus allowing for precise centring of the clutch disc.

KL-0069-7 Clutch Aligner, Vans/Small Lorries (LGV)

Suitable for vans and small lorries (LGV) with a hub Ø of from 24-36mm.

This clutch aligner is indispensable for the quick and easy centring of the clutch disc/ clutch discs.

The centring takes place via the pilot bearing in the crankshaft.

Scope of Delivery:

KL-0069-7 Clutch Aligner, Vans/Small Lorries (LGV)

Part No.	Description	Qty
KL-0069-700	Centring Sleeve Set	1
KL-0069-710	Clutch-Centring Pin	1



KL-0069-7 R Clutch Aligner, Renault

Intended for use on vans and small lorries (LGV) with a hub Ø of from 23-35mm.

An ideal tool for Renault.

This clutch aligner is indispensable for the quick and easy centring of the clutch disc/ clutch discs.

The centring takes place via the pilot bearing in the crankshaft.

Scope of Delivery:

KL-0069-7 R Clutch Aligner, Renault

Part No.	Description	Qty
KL-0069-700	Centring Sleeve Set	1
KL-0069-710 R	Clutch-Centring Pin	1



7



KL-0201

Clutch Alignment Tool

Intended for use on: VW Golf vehicles equipped with 1.5-1.8 litre engines.

Allows the clutch driving plate to be aligned relative to the flywheel.

KL-0202

Clutch Alignment Tool

Intended for use on VW engines featuring 16 valves.

Allows the clutch driving plate to be aligned relative to the flywheel.



KL-0203-1

Clutch Cable Clamp

Suitable for VW Golf (II and III), etc.

When replacing a clutch, the self-adjusting clutch cable needs to be secured with the **KL-0203-1** clamp before removing the clutch. Failure to do so will lead to damage to the clutch cable which, as a result, will have to be renewed completely.

KL-0118-10 A

Pliers for Clutch Master Cylinder Piston Rod

Applicable to: Vauxhall/Opel: Astra-J, Signum, Vectra-C; Audi: A1 (8X), A3 (8P), A4 (B7), A6 (C6); VW: Golf (1K1), Passat (3B6), Eos (1F) etc.

The pliers are designed to release the clutch master cylinder piston rod from the clutch pedal quickly and with ease.

Very useful tool when removing a clutch master cylinder/pedal support bracket.

Technical Data:

Min. opening distance between jaws:	3mm
Max. opening distance between jaws:	60mm
Overall length:	290mm



7



KL-0401-2010

Set of Clamps (3-pc.)

Suitable for Opel/Vauxhall.

Used to fix the pretensioned clutch pressure plate.

KL-0416-4

Clutch Assembly Ring (Plastic), Opel/Vauxhall/Saab

Suitable for Opel/Vauxhall and Saab passenger cars.

For Ø 110-140mm

Assembly aid to secure and keep the pretensioned diaphragm spring on the clutch pressure plate.



KL-0043-31

Inner Bearing Extractor Set

Universally applicable to passenger cars.

Includes collet chucks with Ø 10-20mm.

This set allows for the quick and professional replacement of pilot-/guide bearings, alternator bearings, etc.

The collets are manufactured from special high-grade steel to ensure proper functioning of the tool.

Scope of Delivery: KL-0043-31 Inner Bearing Extractor Set

Part No.	Description	Qty
KL-0043-3101	Spreader, 5mm	1
KL-0043-3102	Spreader, 6mm	1
KL-0049-1013	Slide Weight	1
KL-0043-3107	Collet Chuck, 10mm	1
KL-0043-3108	Collet Chuck, 12mm	1
KL-0043-3109	Collet Chuck, 15mm	1
KL-0043-3110	Collet Chuck, 17mm	1
KL-0043-3111	Collet Chuck, 20mm	1
KL-0043-3115	Plastic Storage Case	1



KL-0043-32

Inner Bearing Extractor Set

Applicable to passenger cars and lorries.

Includes collet chucks with Ø 10-30mm.

This set allows for the quick and professional replacement of pilot-/guide bearings, alternator bearings, etc.

The collets are manufactured from special high-grade steel to ensure proper functioning of the tool.

Scope of Delivery: KL-0043-32 Inner Bearing Extractor Set

Part No.	Description	Qty
KL-0043-31	Inner Bearing Extractor Set	1
KL-0043-3112	Collet Chuck, 25mm	1
KL-0043-3113	Collet Chuck, 27mm	1
KL-0043-3114	Collet Chuck, 30mm	1



KL-0175-70

Internal Extractor Set with Slide Hammer (0.8kg)

Can be used for a wide range of applications, for example, for clutch pilot bearings.

This tool set allows for the removal of bearings, bearing shells and bushings, for example, from blind boreholes.

Scope of Delivery: KL-0175-70 Internal Extractor Set with Sliding Hammer (0.8kg)

Part No.	Description	Qty
KL-0175-602	Collet Chuck, 12-15mm	1
KL-0175-603	Collet Chuck, 15-19mm	1
KL-0175-604	Collet Chuck, 19-25mm	1
KL-0283-6013	Adaptor for Injector Nozzle Puller, M10	1
KL-0049-100	Slide Hammer Puller (base tool)	1



KL-0110 A

Holding Wrench

(Universal)

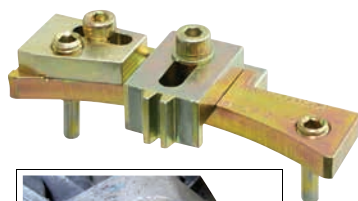
Universal application.

Used for locking flywheels.

Technical Data:

Length:	250mm
Weight:	0.5kg





KL-0182-10 A

Flywheel Locking Tool (adjustable)

This tool is designed to lock the flywheel with the gearbox removed. The tool is axially and radially adjustable and, thus, almost universally applicable - simply by using different stud bolts.

Technical Data:

Bolt Ø:	8.5mm
Bolt distance:	92-107mm

KL-0232-..

Multi-Spline Sockets

The special socket enables the drive shaft fixing screws to be loosened from the differential flange quickly and easily from the outside. Not intended for use with impact wrenches.

Advantages: Substantial time savings.

KL-0232-1

Multi-Spline Socket, XZN M8, 800mm

Suitable for VW-Audi, etc.

Technical Data:

Size (waf):	XZN M8
Drive:	1/2"
Length:	800mm

KL-0232-2

Multi-Spline Socket, XZN M10, 800mm

Suitable for VW Golf IV etc.

Technical Data:

Size (waf):	XZN M10
Drive:	1/2"
Length:	800mm

KL-0232-3

Multi-Spline Socket, XZN M12, 800mm

Suitable for VW T4, Touareg etc.

Technical Data:

Size (waf):	XZN M12
Drive:	1/2"
Length:	800mm

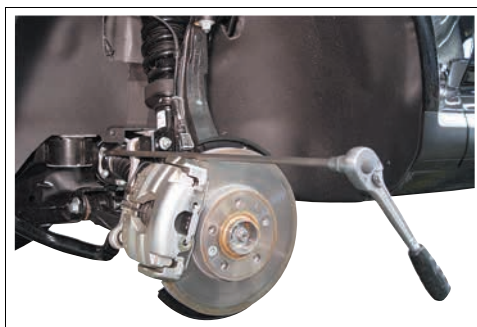
KL-0232-4

Multi-Spline Socket, XZN M14, 800 mm

Suitable for VW T4, Touareg etc.

Technical Data:

Size (waf):	XZN M14
Length:	800mm
Drive:	1/2"



KL-0232-8

Flexible Multi-Spline Bit Socket, XZN M10

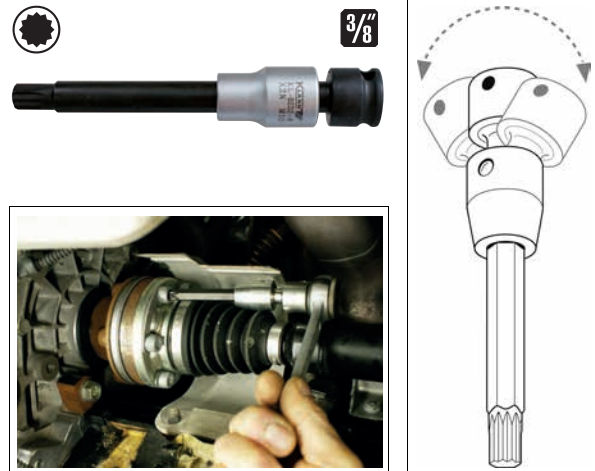
Suitable for VW-Audi, for example VW Golf IV, Passat 3C etc.

For the quick and easy removal and installation of drive shafts. The special design of the socket allows you to easily access the fastening screws that are sometimes difficult to reach. The tool is not designed for use with an impact wrench.

Advantages: Substantial time savings.

Technical Data:

Size (waf):	XZN M10
Drive:	3/8"
Length:	128mm



KL-1600-10

Puller for Clutch Release Shaft, Fiat Ducato

Suitable for Fiat Ducato vehicles (1994 onwards) equipped with a pull-type clutch.

Intended for the removal of clutch release shafts. This tool is necessary when the gearbox needs to be removed, for example when replacing the clutch, or for gearbox repairs.



KL-1600-11



Removal Mandrel for Clutch Release Bearing

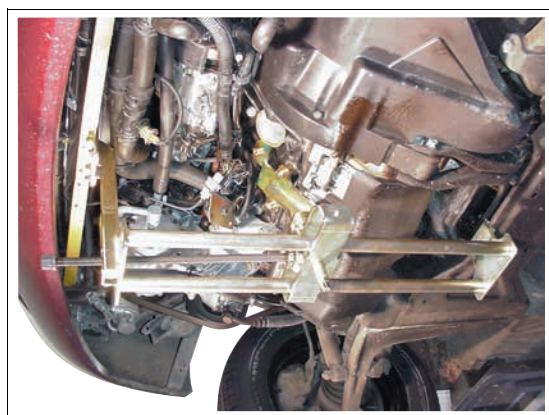
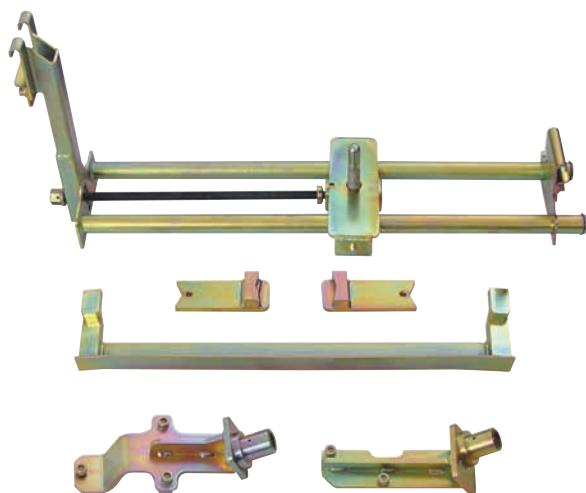
For use on Fiat Ducato vehicles (from 1994 onwards) equipped with a pull-type clutch.

In order to remove the release bearing from the pressure plate, the circlip needs to be pretensioned with the aid of the **KL-1600-11** removal mandrel.



Accessories (on demand):

- 1993 U-20 CODE:1436686 - Reversible ratchet** 
- 3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm** 



KL-0206-1 Engine Lifter, VW T4

Suitable for VW T4 Vans (short front end).

Designed to lift and pull the engine/gearbox assembly forwards.

For the removal and installation of the clutch, respectively the gearbox, on VW T4 vehicles, it is essential to support the engine with the **KL-0206-1** engine lifter. After undoing all mounting bolts and connections as well as loosening the exhaust flange, lift and pull/push the engine forwards to the right front side until the pulley of the crankshaft almost touches the subframe.

Only then will it be possible to remove the gearbox and change the clutch.

Advantages:

- Easy mounting of the engine lifter to the vehicle.
- Support of upper wishbones by retaining wedges for removal of the drive shaft.
- Support and correct positioning of the engine to any desired position.
- Easy removal and installation of gearbox and clutch.
- Suitable for 4- and 5-cylinder engines.
- Safety fixture avoids caught-in fingers in the tool's support.

Technical Data:

Length:	870mm
Height:	365mm
Width:	230mm
Weight:	21.2kg

Note:

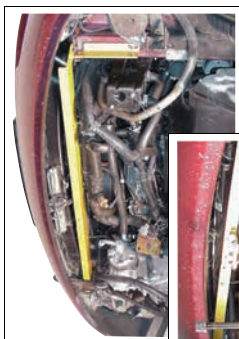
- Removal and installation of gearbox and clutch without engine lifter **KL-0206-1** is a dangerous procedure.
- Centring the clutch can be carried out with the aid of the **KL-0069-5** tool.

Scope of Delivery:

KL-0206-1 Engine Lifter, VW T4

Part No.	Description	Qty
KL-0206-100	Lifting Frame	1
KL-0206-101	Support	1
KL-0206-102	Retainer for 4-CylinderEngines	1
KL-0206-103	Retainer for 5-Cylinder Engines	1
KL-0206-104	Set of SupportingWedges (2-pc.)	1

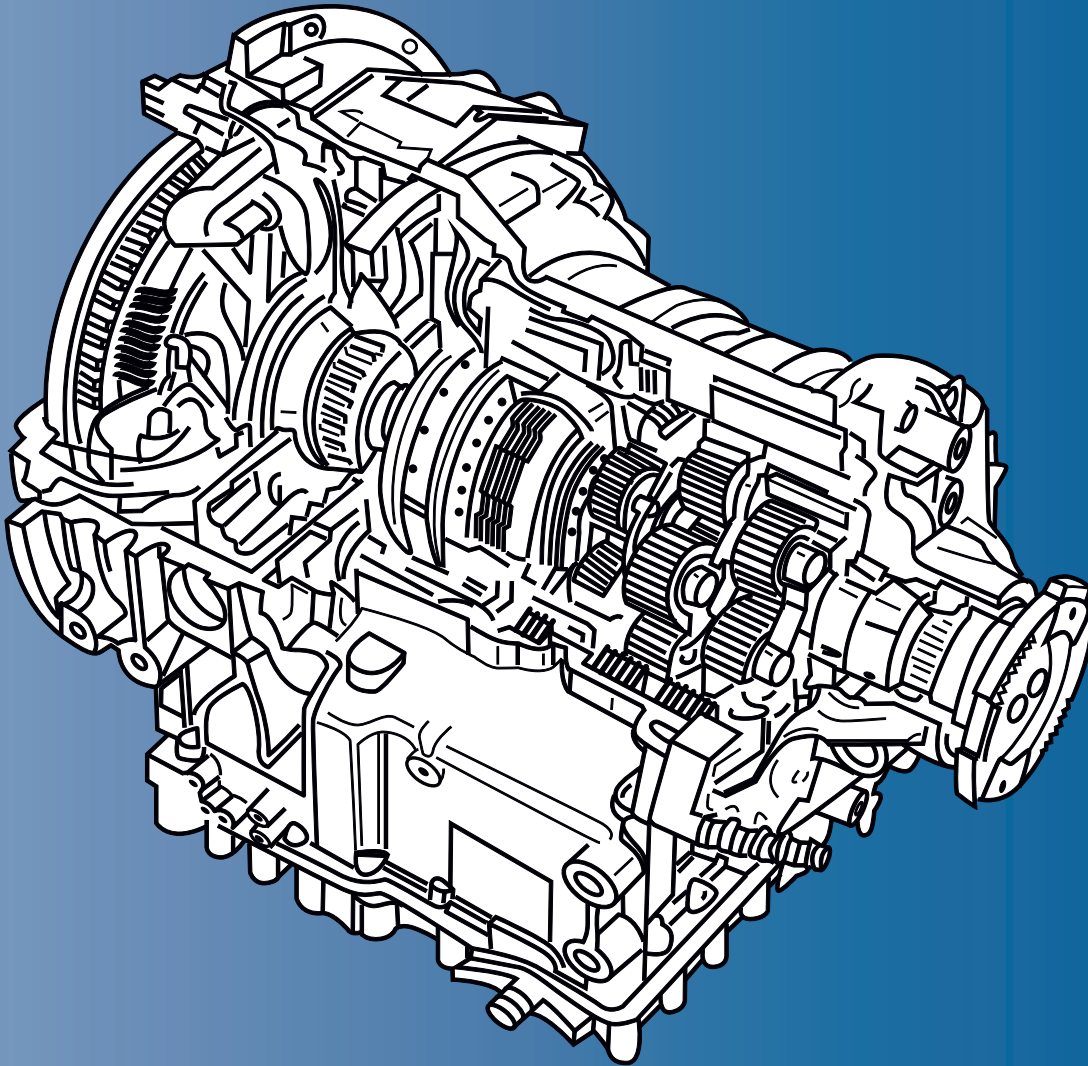
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KL-0206-105 Support, VW T4

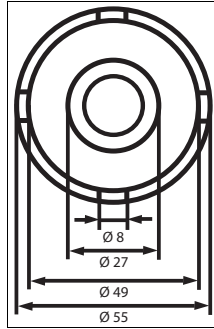
Suitable for: VW T4 model 1995 onwards (extended bodywork length).

Designed to lift and pull the engine/gearbox assembly forwards. The support is used in conjunction with the engine lifter **KL-0206-1**.



Gearbox Repairs

8



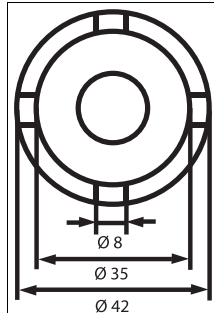
KL-0301

Pin Wrench Socket,
Rear Axle Drive Shaft Flange, Mercedes

Suitable for Mercedes W116, W123, W126 Rear Axle Drive Shaft Flange.

Technical Data:

Drive:	3/4"
Length:	80mm
Weight:	420g



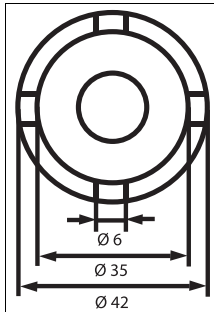
KL-0302

Pin Wrench Socket,
Gearbox Flange, Mercedes

Suitable for Mercedes gearbox flange.

Technical Data:

Drive:	3/4"
Length:	70mm
Weight:	440g



KL-0303

Pin Wrench Socket,
Differential Flange, Mercedes

Suitable for Mercedes differential flange.

Technical Data:

Drive:	3/4"
Length:	70mm
Weight:	370g



1/2"

Technical Data:

Size (waf):	30mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	350g

KL-0304

Special Bi-Hex Socket, waf 30mm

Suitable for BMW 1 Series (F20), 3 Series (E36, E46, E90); Citroën Saxo, C2; Dacia Sandero; Fiat Seicento; Ford Galaxy; Mercedes A-Class (W168), C-Class (W203), E-Class (W211), SL (W129), W123, W124, W126, W201; Opel/Vauxhall Astra F, Astra G; Renault Scenic, Clio, Kangoo; Toyota Avensis, Picnic and VW Golf (III, IV), Lupo, Touareg, T5 etc.

The special socket is particularly suitable for loosening and tightening fastening nuts; for example, those that are found on rear/front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.



1/2"

Technical Data:

Size (waf):	32mm
Profile:	bi-hex
Drive:	1/2"
Length:	75mm
Weight:	450g

KL-0305

Special Bi-Hex Socket, waf 32mm

Suitable for Fiat Punto, Seicento; Ford Fiesta, Fusion, Focus, Mondeo; Mercedes C-Class (W204), S-Class (W140); Nissan Almera, Vauxhall/Opel Astra H, Vivaro; Subaru Outback etc.

The special socket is particularly suitable for loosening and tightening the fastening nuts that are found on rear/front axle drive shafts, wheel bearings, as well as on gearboxes and differential flanges.

KL-0190-94

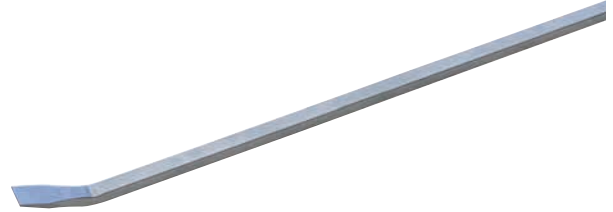
Pry Bar

This pry bar made of special steel is ideal for:

- Dismantling stubborn components.
- Positioning and holding components in position.
- Spreading clamping bores, etc.

Technical Data:

Length:	900mm
Blade width:	24mm



KL-0193-95

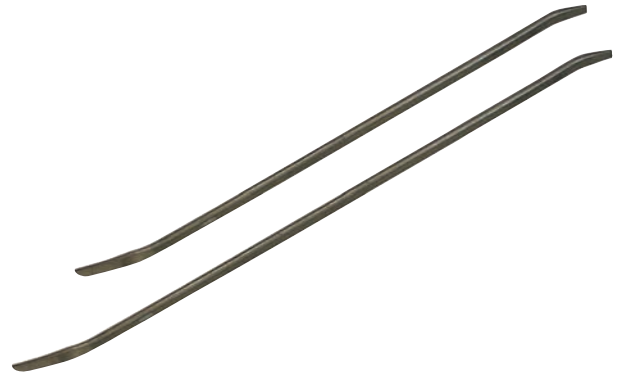
Pry Bar Set

These pry bars made of special steel are ideal for:

- Dismantling stubborn components.
- Positioning components.
- Holding components in position.
- Checking suspension ball joints and silentblochs.

Technical Data:

Length	Blade width 1 / 2	Weight
730mm	24/33mm	1,600g
900mm	24/33mm	1,900g



KL-0149-1..

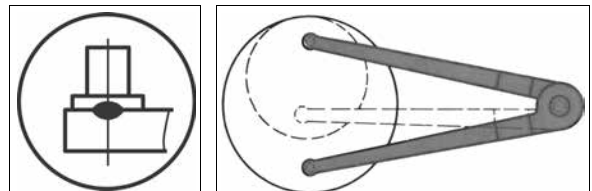
Pin-Type Face Spanner

KL-0149-111 - KL-0149-143

For use on two-hole nuts; spanner features riveted or welded pins (not replaceable).

Special steel, gunmetal finish.

Part-No.						
KL-0149-111	7-40mm	1.5mm	2.8mm	115mm	3mm	40g
KL-0149-112		2mm	3.6mm			
KL-0149-113		2.5mm	4mm			
KL-0149-121	11-60mm	3mm	4mm	160mm	4mm	140g
KL-0149-122		4mm	5mm			
KL-0149-123		5mm	6mm			
KL-0149-131	14-100mm	5mm	6mm	215mm	6mm	300g
KL-0149-132		6mm	7mm			
KL-0149-133		8mm	8mm			
KL-0149-141	22-125mm	8mm	8mm	260mm	6mm	500g
KL-0149-142		10mm	10mm			
KL-0149-143		12mm	12mm			



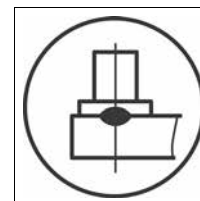
KL-0149-3..

Articulated Pin-Type Face Spanner

KL-0149-311 - KL-0149-342

For use on two-hole nuts; spanner features welded pins.

Part-No.						
KL-0149-311	18-40mm	3mm	4mm	150mm	5mm	90g
KL-0149-312		4mm	5mm			
KL-0149-321	40-80mm	4mm	5mm	220mm	6mm	245g
KL-0149-322		5mm	6mm			
KL-0149-323		6mm	7mm			
KL-0149-331	80-125mm	6mm	7mm	320mm	8mm	670g
KL-0149-332		7mm	7.5mm			
KL-0149-333	125-200mm	8mm	8mm	450mm	10mm	1,750g
KL-0149-341		8mm	8mm			
KL-0149-342		10mm	10mm			

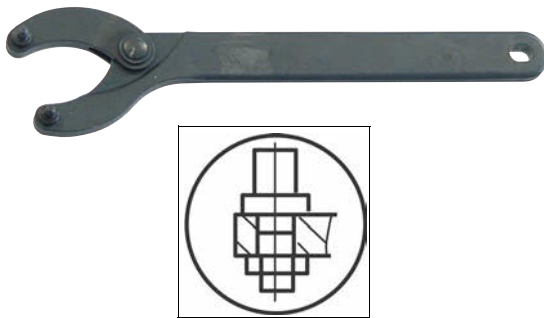


Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-0149-411 - KL-0149-442



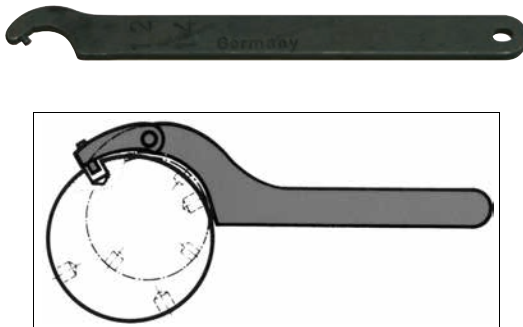
KL-0149-4..

Articulated Pin-Type Face Spanner

For use on two-hole nuts; spanner features replaceable pins.

Part-No.							Pin (Spare Part)
KL-0149-411	18-40mm	3mm	4mm	150mm	5mm	90g	KL-0149-4111
KL-0149-412		4mm	5mm				KL-0149-4121
KL-0149-421		4mm	5mm				KL-0149-4211
KL-0149-422	40-80mm	5mm	6mm	220mm	6mm	245g	KL-0149-4221
KL-0149-423		6mm	7mm				KL-0149-4231
KL-0149-431		6mm	7mm				KL-0149-4311
KL-0149-432	80-125mm	7mm	7.5mm	320mm	8mm	670g	KL-0149-4321
KL-0149-433		8mm	8mm				KL-0149-4331
KL-0149-441		8mm	8mm	450mm	10mm	1,750g	KL-0149-4411
KL-0149-442	125-200mm	10mm	10mm				KL-0149-4421

KL-0148-311 - KL-0148-382



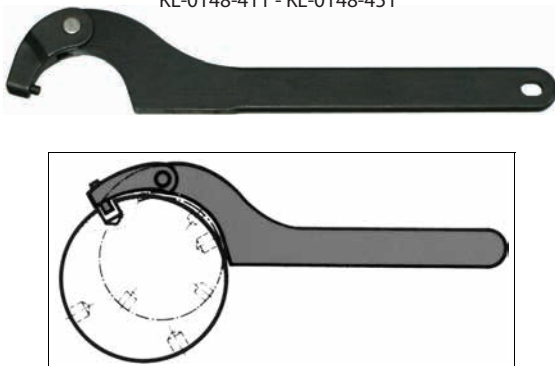
KL-0148-3..

Hook Spanner

For round nuts with set pin holes inside DIN 1816.

Part-No.						
KL-0148-311	12-14mm	2mm	2mm	110mm	3mm	25g
KL-0148-312	16-18mm	2.5mm	2.5mm			
KL-0148-321	20-22mm	2.5mm	2.5mm	110mm	3mm	40g
KL-0148-331	25-28mm	3mm	3mm	136mm	4mm	55g
KL-0148-332	30-32mm	4mm				
KL-0148-341	34-36mm	4mm	3.5mm	170mm	5mm	100g
KL-0148-342	40-42mm					
KL-0148-351	45-50mm	5mm	4mm	205mm	6mm	165g
KL-0148-352	52-55mm					
KL-0148-361	58-62mm	5mm	5mm	240mm	7mm	270g
KL-0148-362	68-75mm					
KL-0148-371	80-90mm	6mm	6mm	280mm	8mm	410g
KL-0148-372	95-100mm	8mm				
KL-0148-381	110-115mm	8mm	8mm	335mm	10mm	780g
KL-0148-382	120-130mm					

KL-0148-411 - KL-0148-451



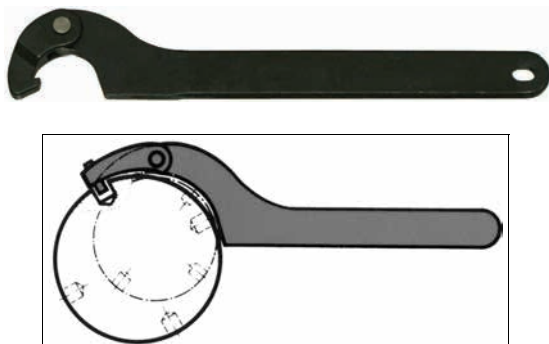
KL-0148-4..

Adjustable Hook Spanner

For round nuts with set pin holes inside DIN 1816.

Part-No.					
KL-0148-411	20-35mm	2.5mm	3mm	135mm	40g
KL-0148-412		3mm	3mm		
KL-0148-413		4mm	4mm		
KL-0148-421	35-60mm	4mm	4mm	175mm	85g
KL-0148-422		5mm	5mm		
KL-0148-431		5mm	5mm		
KL-0148-432	60-90mm	6mm	6mm	245mm	250g
KL-0148-433		6mm	6mm		
KL-0148-441		6mm	6mm	300mm	425g
KL-0148-442	90-155mm	8mm	8mm		
KL-0148-451	155-230mm	8mm	8mm	420mm	1,015g

KL-0148-511 - KL-0148-515



KL-0148-5..

Adjustable Hook Spanner

For groove nuts DIN 1804; spanners with joint.

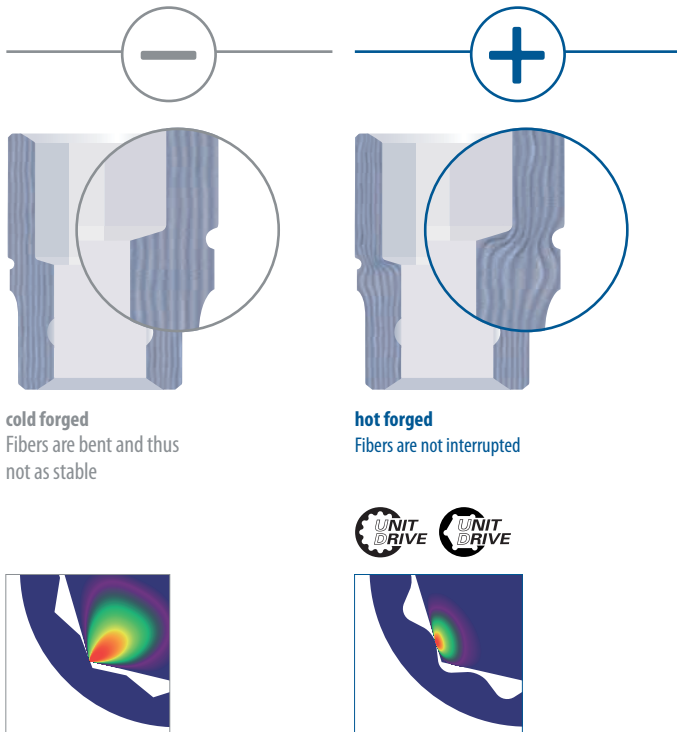
Part-No.					
KL-0148-511	20-35mm	135mm	9mm	4mm	50g
KL-0148-512	35-60mm	175mm	10.5mm	5mm	100g
KL-0148-513	60-90mm	250mm	12.5mm	7mm	280g
KL-0148-514	90-155mm	290mm	14mm	8mm	460g
KL-0148-515	155-230mm	420mm	17.5mm	10mm	1,200g

POWERFUL RATCHETS AND STURDY SOCKETS

Powerful, reliable, durable

A huge variety of types

- › Intelligently designed **ratchets** meet every demand placed and more besides.
- › Sturdy, fine-toothed, durable and extremely resilient
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- › Unrivalled diversity of hot-forged **sockets**, metric, inch, TORX®, multi-tooth, internal hexagon or slot and cruciform
- › Screw head protecting profiles (UD bi-hexagonal and hexagonal)



Quality from A - Z...

- › Use of the best-possible raw materials, most up-to-date machinery and environmentally-friendly production processes
- › Our tool specialists vouch for exactness in processing and continuous refinements
- › Unique manufacturing processes and special tool treatment bring about the best in results
- › Stringent quality checks after each production step ensure a constantly high level





KL-0152-90 K

Twin-/Triple-Leg Puller Set, with Quick-Release Lever

For removing pulleys, gearwheels and ball bearings.

These universal twin-/triple-leg pullers with quick-release legs can be used as internal but also as external pullers - simply by reversing the jaws.

The jaws are provided with extremely slim ends which are essential for those gearbox repairs where pullers with conventional jaws cannot be used due to space constraints.

Advantages:

- The legs always grip in parallel and can be attached to the yoke by means of the quick-release lever.
- Universal application.
- Saves 1 spindle and 2 legs.
- The best choice for the professional automotive technicians to assist them with their tough day-to-day work both in the automotive industry and in garages; suitable for use on passenger cars/lorries/HGVs.

Technical Data:

Drive:	17mm
Width:	100mm
Height:	100mm
Max. load capacity:	2.5t
Weight:	2.1kg

Scope of Delivery: KL-0152-90 K Twin-/Triple-Leg Puller Set

Part-No.	Description	Qty
KL-0150-0001	Twin-Leg Yoke	1
KL-0151-0001	Triple-Leg Yoke	1
KL-0152-0002 A	Spindle, M14x1.5x140mm, with Centring Tip	1
KL-0152-1103	Leg, short	3
KL-0152-0005	Quick-Release Lever with Clamping Bolt	3
KL-0152-1004	Jaw without Leg (a=3.6mm)	3
KL-4990-1004	Plastic Storage Case (275x230x83mm)	1



KL-0152-91 K

Twin-/Triple-Leg Puller Set, with Quick-Release Lever

For removing pulleys, gearwheels and ball bearings.

These universal twin-/triple-leg pullers with quick-release legs can be used as internal but also as external pullers - simply by reversing the jaws.

The jaws are provided with extremely slim ends which are essential for those gearbox repairs where pullers with conventional jaws cannot be used due to space constraints.

Advantages:

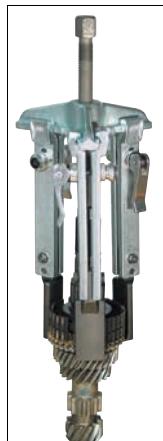
- The legs always grip in parallel and can be attached to the yoke by means of the quick-release lever.
- Universal application.
- Saves 1 spindle and either 2 or 4 legs.
- The best choice for the professional automotive technicians to assist them with their tough day-to-day work both in the automotive industry and in garages; suitable for use on passenger cars/lorries/HGVs.

Technical Data:

Drive:	17mm
Width:	100mm
Height:	100/200mm
Max. load capacity:	2.5t (at a=3.6mm) 2.0t (at a = 2.0mm)
Weight:	3.6kg

Scope of Delivery: KL-0152-91 K Twin-/Triple-Leg Puller Set

Part-No.	Description	Qty
KL-0150-0001	Twin-Leg Yoke	1
KL-0151-0001	Triple-Leg Yoke	1
KL-0152-0002 A	Spindle M14x1.5x140mm, with Centring Tip	1
KL-0152-1203	Leg, medium	3
KL-0152-1103	Leg, short	3
KL-0152-0005	Quick-Release Lever with Clamping Bolt	6
KL-0152-1004	Jaw without Leg (a=3.6mm)	3
KL-0152-0004	Jaw without Leg (a=2.0mm)	3
KL-4990-1007	Plastic Storage Case (340x275x83mm)	1



KL-0150-..

Twin-Leg Puller (Universal)

The **KL-0150-0** puller features extremely pointed leg ends and an ultra slim leg shaft (Important for transmission repairs).

The universal twin-leg puller can be used as an internal or external puller - simply by reversing the legs.

KL-0150-0

Twin-Leg Puller (Universal)

Technical Data:

Drive:	17mm
Max. pulling width:	100mm
Max. pulling height :	100mm
Max. load capacity:	2t
Weight:	1kg

KL-0150-1

Twin-Leg Puller (Universal)

Technical Data:

Drive:	17mm
Max. pulling width:	100mm
Max. pulling height:	100mm
Max. load capacity:	3t
Weight:	1kg

KL-0150-1,5

Twin-Leg Puller (Universal)

Technical Data:

Drive:	17mm
Max. pulling width:	135mm
Max. pulling height:	100mm
Max. load capacity:	3t
Weight:	1kg

KL-0150-2

Twin-Leg Puller (Universal)

Technical Data:

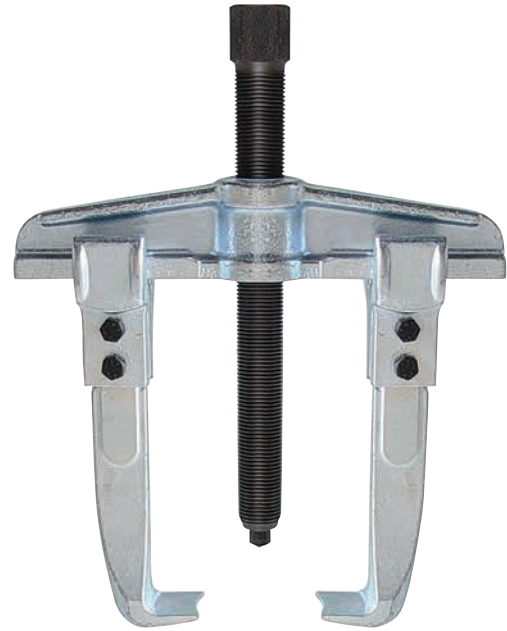
Drive:	22mm
Max. pulling width:	170mm
Max. pulling height:	150mm
Max. load capacity:	5t
Weight:	3kg

KL-0150-2,5

Twin-Leg Puller (Universal)

Technical Data:

Drive:	22mm
Max. pulling width:	220mm
Max. pulling height:	150mm
Max. load capacity:	5t
Weight:	3.2kg



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-0150-3

Twin-Leg Puller (Universal)

Technical Data:

Drive:	27mm
Max. pulling width:	260mm
Max. pulling height:	200mm
Max. load capacity:	7.5t
Weight:	7kg



Technical Data:

Drive:	17mm
Width:	135mm
Height:	100/200/250mm
Max. load capacity:	2t
Weight:	3.2kg

KL-0150-6

Special Twin-Leg Puller Set

The **KL-0150-6** puller set features extremely pointed leg ends and an ultra slim leg shaft (Important for transmission repairs).

Scope of Delivery: KL-0150-6 Special Twin-Leg Puller Set

Part-No.	Description	Qty
KL-0150-1501	Yoke	1
KL-0150-0002	Spindle	1
KL-0150-0003	Pair of Clamps, short* (for 1 leg)	2
KL-0150-1203	Pair of Clamps, medium* (for 1 leg)	2
KL-0150-1253	Pair of Clamps, long* (for 1 leg)	2
KL-0150-0004	Leg without Clamps (pointed/slim)	6



Technical Data:

Drive:	17mm
Width:	135mm
Height:	100/200/250mm
Max. load capacity:	2t
Weight:	4.8kg

KL-0151-9

Special Triple-Leg Puller Set

The **KL-0151-9** puller set features extremely pointed leg ends and an ultra slim leg shaft (Important for transmission repairs).

Scope of Delivery: KL-0151-9 Special Triple-Leg Puller Set

Part-No.	Description	Qty
KL-0151-1501	Yoke	1
KL-0150-0002	Spindle	1
KL-0150-0003	Pair of Clamps, short* (for 1 leg)	3
KL-0150-1203	Pair of Clamps, medium* (for 1 leg)	3
KL-0150-1253	Pair of Clamps, long* (for 1 leg)	3
KL-0150-0004	Leg without Clamp (pointed/slim)	9



KL-0124-43

Oil Pump with 12 Litre Reservoir

Universal field of application. Ideal for use on the gearboxes found in VW-Audi, Ford, BMW, Honda, Nissan, Toyota, Mercedes, Volvo vehicles.

The oil pump with 12 litre reservoir facilitates the quick and safe filling/topping up of gearbox, differential, engine, power steering etc.

The reservoir can be pressurised quickly and easily with the aid of compressed air. This allows the user to have both hands free to accurately dose the necessary vehicle-specific operating liquid. Alternatively, the filling/topping up can also be carried out by operating the hand pump on the reservoir.

The oil pump with reservoir allows for the quick, easy and professional filling/topping up even in confined space conditions or where access is difficult.

Thanks to the universal and the vehicle-specific adaptors that come with the kit, the oil pump with reservoir is suitable for a wide range of applications.

Scope of Delivery: KL-0124-43 Oil Pump with 12 Litre Reservoir

Part No.	Description	Qty
KL-0124-4311	Reservoir (12l) with Pump	1
KL-0124-4332	Lid	1
KL-0124-4312	Hook	1
KL-0124-4313	Filling Hose with Ball Valve	1
KL-0124-432 K	Adaptors in a Storage Case	1

Scope of Delivery: KL-0124-432 K Adaptor Assortment, in a Storage Case

Part No.	Description	Qty
KL-0124-4358-0	Adaptor for VW Gearbox	1
KL-0124-4358-1	Adaptor for Toyota Gearbox	1
KL-0124-4358-2	Adaptor BMW, Honda, Nissan	1
KL-0124-4358-3	Adapter (short) for VW Gearbox	1
KL-0124-4358-4	Adapter (long), for VW Gearbox	1
KL-0124-4358-5	Adaptor for VW Gearbox (M10x1.0)	1
KL-0124-4358-6	Adapter for VW-Audi DSG Gearbox (M24x1.5)	1
KL-0124-4358-7	Adaptor for Audi CVT Gearbox (M22x1.5)	1
KL-0124-4358-8	Adaptor for Mercedes 722.9 Gearbox (M12x1.5)	1
KL-0124-4358-9	Adaptor for Volvo Gearbox (5/16-24)	1
KL-0124-4390	Plastic Storage Case	1

Accessories:

The **KL-0124-433** reservoir (12l) with lid, which is available separately as an accessory, is designed for the quick and safe filling and storage of different types of oil.

Note: Additional reservoir with lid available as accessory (to be ordered separately).

Technical Data:

Reservoir capacity (with pump):	12 litre
Cracking pressure of the pressure relief valve:	1bar (14psi)
Maximum pressure:	2.5bar (35psi)

KL-0124-433

Reservoir (12 Litre) with Lid

Additional reservoir for KL-0124-43 if different types of oil are to be used.

The **KL-0124-433** reservoir (12 Litre) with lid is designed for the quick and safe filling and storage of different types of oil.



Scope of Delivery:

KL-0124-433 Reservoir (12 Litre) with Lid

Part No.	Description	Qty
KL-0124-4331	Reservoir (12 Litre) with Lid (empty)	1
KL-0124-4332	Lid	1

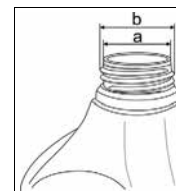
KL-0288-11

Oil Filler Adaptor for VW DSG Gearbox

Suitable for VW-Audi DSG gearboxes.

This tool is indispensable for the quick, easy and clean filling and re-filling of DSG gearboxes. The oil filler adaptor is screwed directly to the 1-Litre oil reservoir (VAG G 052 182 A2).

The built-in shut-off valve ensures accurate filling and professional working.



Technical Data:

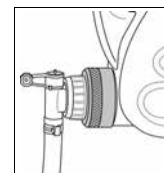
Hose length:	2m
Gear box connection thread:	M24x1.5
Dimensions of oil reservoir (a):	34mm
Dimensions of oil reservoir (b):	37.7mm

KL-0288-112

Adaptor for KL-0288-11

The **KL-0288-112** adaptor is used in conjunction with oil filler adaptor **KL-0288-11**. It is designed to connect DSG gearboxes to the 5 litre oil reservoirs from Febi (32390), Ravenol or Pentosin, thus enabling these gearboxes to be filled up directly.

KL-0288-112



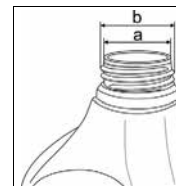
KL-0288-12

Oil Filler Adaptor for Audi DSG Gearbox

Suitable for Audi DSG gear boxes from 2008 onwards.

This tool is indispensable for the quick, easy and professional filling and re-filling of DSG gearboxes. The oil filler adaptor is screwed directly to the 1-Litre oil reservoir (VAG G 052 529 A2).

The built-in shut-off valve ensures accurate filling and professional working.



Technical Data:

Hose length:	2m
Gear box connection thread:	M24x1.5
Dimensions of oil reservoir (a):	36.5mm
Dimensions of oil reservoir (b):	39.5mm

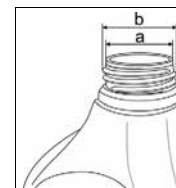
KL-0288-13

Oil Filler Adaptor for VW CVT Transmission

Suitable for VW-Audi CVT transmissions (continuously variable transmission) (Multitronic).

This tool is indispensable for the quick, easy and professional filling and re-filling of CVTs (continuously variable transmissions). The oil filler adaptor is screwed directly to the 1-Litre oil reservoir (VAG G 052 180 A2).

The built-in shut-off valve ensures accurate filling and professional working.



Technical Data:

Hose length:	2m
Gear box connection thread:	M22x1.5
Dimensions of oil reservoir (a):	36.5mm
Dimensions of oil reservoir (b):	39.5mm

KL-0288-14

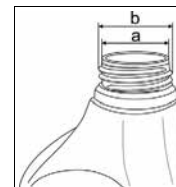
Oil Filler Adaptor for VW Haldex Clutches

Suitable for VW-Audi Haldex-clutches.

This tool is indispensable for the quick, easy and professional filling and re-filling of Haldex clutches.

The oil filler adaptor is screwed directly to the 1-Litre oil reservoir (VAG G 055 175 A2).

The built-in shut-off valve ensures accurate filling and professional working.



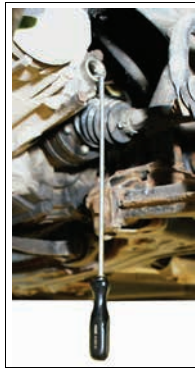
Technical Data:

Hose length:	2m
Clutch connection thread:	M10x1
For dimensions of the oil reservoir (a):	34mm
For dimensions of the oil reservoir (a):	37.7mm



Technical Data:

Length:	360mm
Scales length:	15mm
Scales graduation:	1mm
Weight:	90g



KL-0231-31

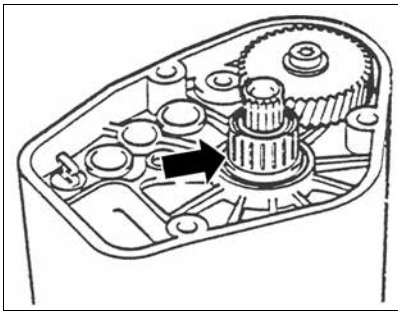
Oil Dipstick, VW Gearbox

Universal application.

Essential tool for VW-Audi gearboxes e.g.:

- 012/01 Gearbox - WAudi 80 (RS2 Quattro), Cabrio, Audi A4 (1.6, 1.8 5V, 1.8 5V Turbo, 2.3 VR5, 1.9 TDI), VW Passat 3B (all petrol engines and 74kW diesel engines)
- 01E Gearbox - Audi 80 (RS2 [6-speed gearbox]), 100 (C4), A4 (from '95), S4, RS4, RS4 Quattro, VW Passat (3B [4 and 6 cylinder TDI from 96 kW 6-speed gearbox all-wheel-drive])
- 012 Gearbox - Audi 80, 100 (5-speed gearbox), A6
- 02G Gearbox - VW T4 Synchro
- Multitronic Gearbox - Audi A4 (2.0 TDI; 2.7 TDI), A6 (2.7 TDI)

This tool is indispensable for the easy, quick, and trouble-free checking of the gear oil level. Even on gearboxes where the bolts of the gearbox control system are hard to access, checking the oil level is not an issue using this tool.



KL-0230-10

Bearing Puller

Bearing Puller for VW gearbox 085 (e.g. VW-Golf and VW-Polo).

Indispensable for the quick and easy removal of the needle roller bearing inner ring from the gear shaft when the synchroniser body with gearwheel has been pulled off the 5th gear.

The special design of the puller **KL-0230-10** ensures that the collet chuck of the puller completely covers the bearing inner ring, thus enabling quick and smooth removal.

Technical Data:

Weight:	1.6kg
Clamping range:	40-43mm

Technical Data:

Drive:	3/8"
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KL-0231-1

Articulated Socket, Hexagonal, Size (waf) 17mm

Intended for use on gearbox oil control plugs on manual transmissions on VW and Audi passenger cars. Also ideal for use on VW Golf II and III as well as Audi vehicles with automatic transmission, where the oil control plug at the gearbox is hard to access.

Technical Data:

Drive:	1/2"
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KL-0231-2

Multi-Spline Socket, XZN, M16

Suitable for Audi A3, A4, A6; VW Fox, Golf (IV), LT.

This special socket features an inner bore and is therefore the ideal tool for oil drain plugs and oil control plugs on gearboxes.

8



Technical Data:

Length:	400mm
Weight:	700g

KL-0231-30

Oil Filter Wrench

Suitable for the all-wheel-drive vehicles VW Bora, Golf (IV and V), Sharan, Touran 4motion as well as Audi A3 and TT Quattro etc.

Designed to remove and install the Haldex clutch oil filter.



KL-0145-101

Carrier Adaptor, VW-Audi

To use the various VW-Audi engine and transmission holders, the **KL-0145-101** Carrier Adaptor is required.

KL-0159-11

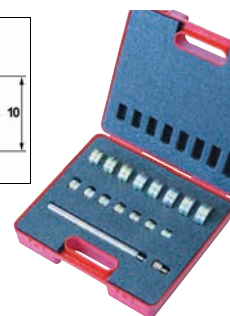
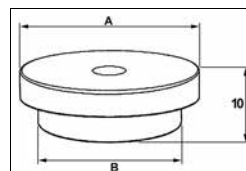
Set of Pressure Pieces, with Storage Case

For extracting and inserting bearings, shafts, bushes etc. Used in conjunction with a hydraulic press or any hydraulic press tool set of the **KL-0039- Series**.

The set consists of one mandrel, one plug and 15 pressure pieces and is supplied in a plastic storage case.

Technical Data:

Mounting bore Ø:	10mm
Ø A:	22-50mm in 2mm gradation
Ø B:	20-48mm in 2mm gradation



KL-0159-12

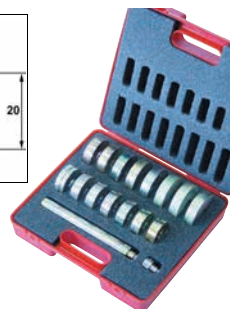
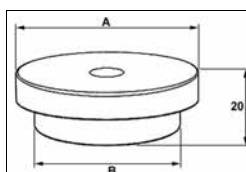
Set of Pressure Pieces, with Storage Case

For extracting and inserting bearings, shafts, bushes etc. Used in conjunction with a hydraulic press, pullers or tools of the **KL-0039-910 H** and **KL-0039-930 H** tool sets.

The set consists of one mandrel, one plug and 15 pressure pieces and is supplied in a plastic storage case.

Technical Data:

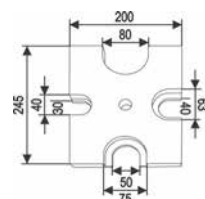
Mounting bore Ø:	20mm
Ø A:	52-80mm in 2mm gradation
Ø B:	50-78mm in 2mm gradation



KL-0095-1

Stripper Plate, Size 2

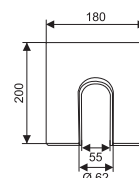
For pressing on and pressing off bearings found on rear axle shafts, transmissions and engines.



KL-0096-1

Stripper Plate, Ø 62mm

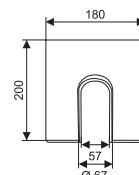
For pressing on and pressing off bearings or sprockets found on bearing shafts; for example, on transmissions, engines etc. Used in conjunction with a workshop press.



KL-0096-2

Stripper Plate, Ø 67mm

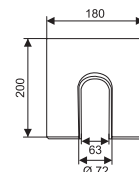
For pressing on and pressing off bearings or sprockets found on bearing shafts; for example, on transmissions, engines etc. Used in conjunction with a workshop press.



KL-0096-3

Stripper Plate, Ø 72mm

For pressing on and pressing off bearings or sprockets found on bearing shafts; for example, on transmissions, engines etc. Used in conjunction with a workshop press.

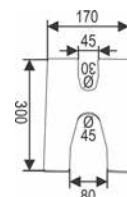


KL-0097-1

Stripper Plate (thin-walled, 4mm)

Made of highly hardened and tempered special steel Ø 1 = 30mm; Ø 2 = 45mm. Ideal tool for very narrow clearances (up to 4mm).

Note: The stripper plate **KL-0097-1** can also be used in conjunction with the puller **KL-0150-2,5**.



GEDORE PULLERS

The right tool for every demand placed

For maximum performance - even under a multi-ton load

- High-grade industrial quality for the toughest forms of continuous use and safety in everyday work
- Our innovative force over the past few years, which has given rise to numerous patents and utility models, is very much a reflection of our extensive track record in the development and production of puller tools.
- Effortless moving of multi-ton loads
- Ideal for the controlled use of force and a vital requirement for safe working: puller in association with a torque wrench

Intelligent designs - well thought- out components

- The refined GEDORE pullers impress as much through their quality as they do through their user-friendliness and superiority in detail:
- A lasered scale on the 2-arm cross-beam enable the legs to be symmetrically aligned
- Leg brake and quick-release clamp are those rapid and assured ways of locking and fastening the puller legs
- Both the nitro-carburised mechanical and hydraulic spindles have properties that make work considerably easier and safer.

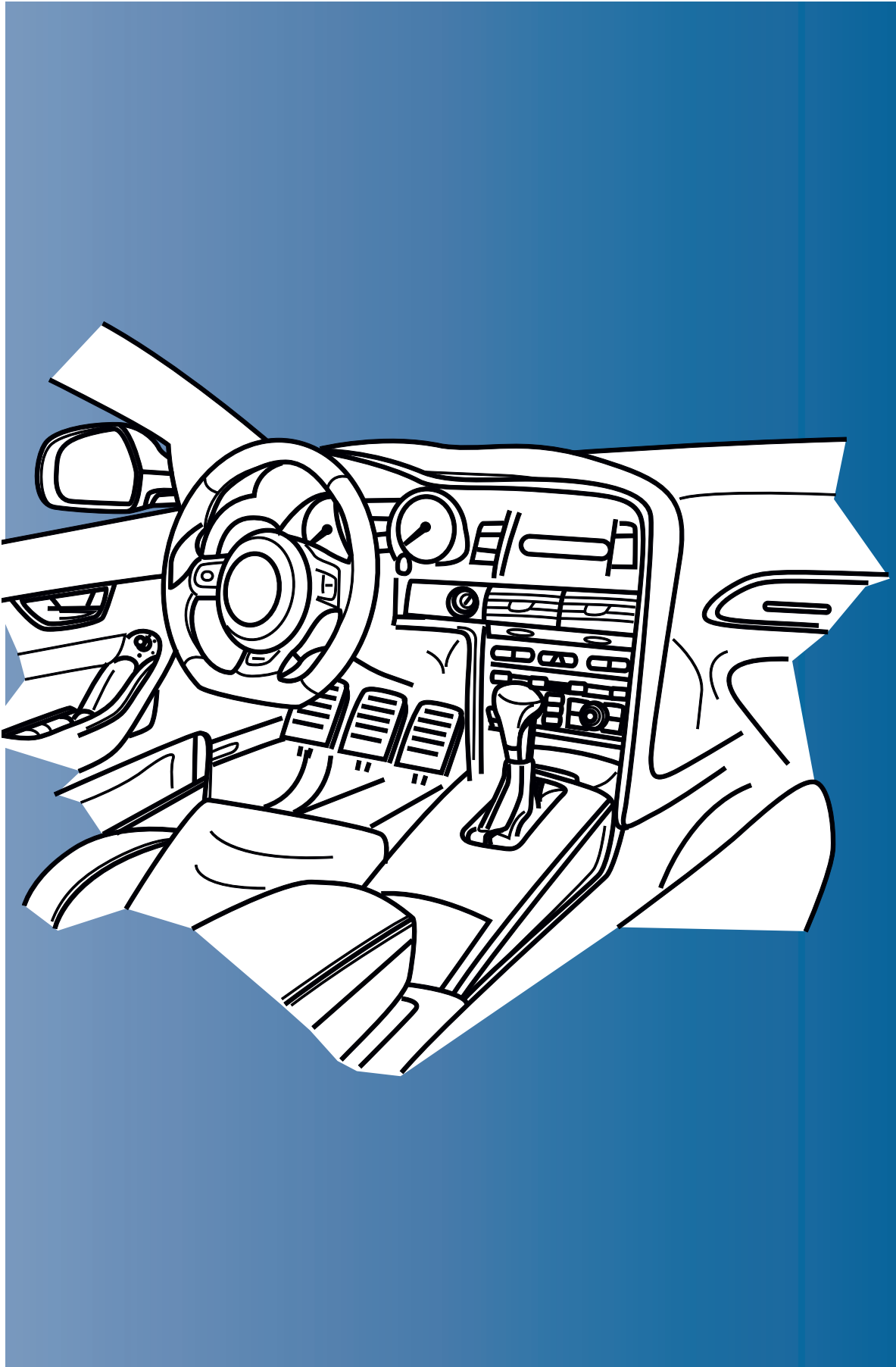
Best-possible quality for your safety

- Maximum value is attached to the safety of the puller when selecting the material and manufacturing process for each individual component part beforehand.
- Any overloading of drop-forged components, such as 2-arm cross-beams, legs and clamping parts, is revealed through deformation - on account of the course of their fibres - rather than through fracturing and/or splintering.
- Thermo-chemical treatment bestows a hardness on the components meeting the demands placed.
- Strict quality checks ensure a constant high level

Flexibility and specialization

- Irrespective as to whether the same pulling operations are repeated or whether you are confronted each time with new pulling challenges, special or flexible all-purpose pullers - saving both on time and force - are there to meet your individual demands
- The 1.06 and 1.07 series provide that unsurpassed flexibility. 2 and 3-arm cross-beams of various sizes, legs in the most varied of shapes and lengths, various fastening systems and the scope to replace the mechanical spindle by a hydraulic one all give rise to a modular system with which you can extensively retrofit and update your puller - thus making it applicable for all sorts of pulling situations.
- Appropriate ranges for varied fields of work - including the workshop, industry and agricultural/constructional machinery repairs.
- From the incidental parts to the heavy-duty puller, GEDORE provides tools for external, internal and ball bearing pullers and special-purpose tools. Should you still not find the right tool, then do contact us as to possible customised manufacturing.





Car Body and Interior

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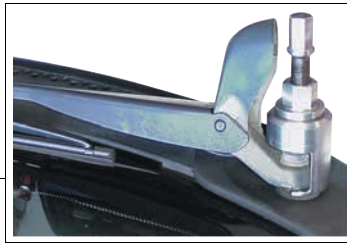
KL-0198-90 KB Wiper Arm Puller Set

Suitable, e.g., for VW-Audi, BMW, Citroën Ford, Mercedes, Opel/Vauxhall, Peugeot, Renault etc.

An indispensable tool set for the removal of bolted wiper arms, especially useful when these have rusted or seized on the shaft.

Even tight-fitting/stuck wiper arms or those that are deeply built-in can be removed easily and without any trouble by using the **KL-0198-90 KB** puller set.

Wiper arms equipped with an integrated screen-wash nozzle, such as found at the rear window of VW-Audi, BMW etc., are removed by means of the slide hammer puller that comes with the set. Wiper arms with centre holes can be extracted using the pressure spindle. When removing wiper arms without centre holes, the pressure piece included in the set is placed onto the pressure screw.



Scope of Delivery:

KL-0198-90 KB Wiper Arm Puller Set

Part No.	Description	Qty
KL-0198-9008	Pressure Spindle	1
KL-0198-9009	Slide Hammer Puller	1
KL-0198-901	Fork 1 (BMW, Citroën, Ford, Opel/Vauxhall, VW etc.)	1
KL-0198-902	Fork 2 (Citroën, Peugeot etc.)	1
KL-0198-903	Fork 3 (VW-Audi, Citroën Ford, Mercedes etc.)	1
KL-0198-904	Fork 4 (VW-Audi, BMW, Citroën, Mercedes, Opel/Vauxhall, Peugeot, Renault etc.)	1
KL-0198-905	Fork 5 (VW-Audi, BMW 1-Series, Citroën, Ford, Mercedes, Peugeot 307, Renault, VW Touareg, T5, etc.)	1
KL-0198-906	Fork 6 (VW-Audi, BMW, Ford etc.)	1
KL-0198-907	Fork 7 (BMW etc.)	1
KL-0198-909	Fork 9 (VW Golf V, T5 rear wiper, Škoda Superb, Peugeot 206, 307, 806, etc.)	1
KL-0198-9090	Plastic Storage Case (empty)	1



KL-0198-923 KA Wiper Arm Puller Set, VW-Audi/Ford

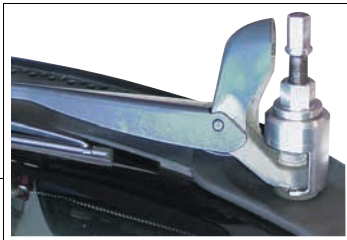
Suitable e.g. for VW-Audi, Ford, etc.

An indispensable tool set for the removal of bolted wiper arms, especially useful when these have rusted or seized on the shaft.

Even tight-fitting/stuck wiper arms or those that are deeply built-in can be removed easily and without any trouble by using the **KL-0198-923 KA** puller set.

Wiper arms equipped with an integrated screen-wash nozzle, such as found at rear windows, are removed by means of the slide hammer that comes with the set.

Wiper arms with centre holes can be extracted using the pressure spindle. When removing wiper arms without centre holes, the pressure piece included in the set is placed onto the pressure screw.



Scope of Delivery:

KL-0198-923 KA Wiper Arm Puller Set, VW-Audi/Ford

Part No.	Description	Qty
KL-0198-901	Fork 1	1
KL-0198-903	Fork 3	1
KL-0198-904	Fork 4	1
KL-0198-905	Fork 5	1
KL-0198-906	Fork 6	1
KL-0198-909	Fork 9	1
KL-0198-9008	Spindle with Pressure Piece and Screw Cap	1
KL-0198-9009	Slide Hammer with Screw Cap	1
KL-0198-9090	Plastic Storage Case (empty)	1

KL-0198-910

Pulling Fork for Windscreen Wiper Arm

Designed for windscreen wipers on Porsche Cayenne (92A) and VW Touareg (7P).

For the professional removal of tight-fitting/stuck windscreen wipers; particularly useful tool when wiper arms have rusted or seized on the shaft.

The tool is used in conjunction with pressure spindle **KL-0198-9008**.



KL-0198-913

Pulling Fork for Windscreen Wiper Arm

Suitable e.g. for windscreen wipers on Audi A4 (Models 2000-2007).

This tool enables the quick and easy removal of bolted windscreen wiper arms, even when these have rusted or seized on the shaft. It is used in conjunction with the pressure spindle **KL-0198-9008**.

When removing wiper arms with integrated screen-wash nozzles, the pressure spindle is replaced with the **KL-0198-9009** slide hammer puller (included in tool set **KL-0198-90 KB**, and also individually available as accessory).



KL-0198-928

Wiper Arm Puller

Suitable e.g. for wiper arms on rear windows of Renault Clio III, Espace IV, Laguna II, Modus, Megane II, Scenic II.

This tool enables the quick and easy removal of bolted wiper arms, even when they have rusted or seized on the shaft.

When removing wiper arms with integrated screen-wash nozzles, the spindle **KL-0198-9003** is replaced with the **KL-0198-9009** slide hammer puller (included in tool set **KL-0198-90 KB**, and also individually available as accessory).

Scope of Delivery:

KL-0198-928 Wiper Arm Puller

Part No.	Description	Qty
KL-0198-912	Fork 12	1
KL-0198-9003	Spindle, M12x60mm	1
KL-0198-9004	Pressure Piece	1



KL-0198-80

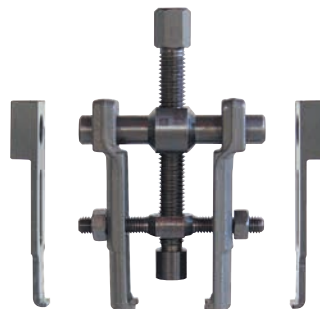
Wiper Arm Puller

Universal application.

Thanks to the special shape of the puller, the two pairs of different hooks (with extra-thin straight tips and with rounded tips) and the adjusting nut, this tool is universally applicable.

Technical Data:

Drive:	14mm
Hook width (straight tips):	15mm
Hook width (straight tips):	2.3mm
Hook width (rounded tips):	26.5mm
Hook thickness (rounded tips):	2.6mm
Pulling-Ø max:	45mm
Weight:	560g



Application Table KL-0198-.. Series:

Alfa Romeo	left	front	right	Drive	rear	Drive
147 model 2005 onwards	KL-0198-901 / -909		KL-0198-901 / -909	KL-0198-9008	KL-0198-80	
156 model 2004 onwards	KL-0198-905		KL-0198-905	KL-0198-9008	KL-0198-904	KL-0198-9009
159 2006 model	KL-0198-909		KL-0198-909	KL-0198-9008		

Audi	left	front	right	Drive	rear	Drive
A1 (8X) model 2010 onwards	KL-0198-909 / -904		KL-0198-909 / -904	KL-0198-9008	KL-0198-901	KL-0198-9009
A3 (8P) 2008 model	KL-0198-909		KL-0198-909	KL-0198-9008	KL-0198-901	KL-0198-9009
A4 model 2001 onwards	KL-0198-906 / -913		KL-0198-906 / -913	KL-0198-9008	KL-0198-906	KL-0198-9009
A6 (4B) model 1997 - 2004	KL-0198-904		KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9008
A6 (4F) model 2004 - 2011	KL-0198-909		KL-0198-909	KL-0198-9008	KL-0198-901	KL-0198-9009
Q3 (8U) model 2011 onwards	KL-0198-905		KL-0198-905	KL-0198-9008	KL-0198-904	KL-0198-9009
Q5 (8R) model 2008 onwards	KL-0198-907		KL-0198-907	KL-0198-9008	KL-0198-901	KL-0198-9009

BMW	left	front	right	Drive	rear	Drive
1er (E87) model 2004 - 2011	KL-0198-905		KL-0198-905	KL-0198-9008		
2er (F45) model 2013 onwards	KL-0198-913		KL-0198-902	KL-0198-9008		
3er (E46) model 1998 onwards	KL-0198-905 / -907 / -910		KL-0198-905 / -907 / -910	KL-0198-9008		
3er (E90) model 2005 - 2013	KL-0198-80		KL-0198-80			
3er (F30) model 2011 onwards	KL-0198-906		KL-0198-906	KL-0198-9008		
5er (E60) model 2003 - 2010	KL-0198-80		KL-0198-901	KL-0198-9008		
X3 (E83) model 2003 - 2010	KL-0198-80		KL-0198-907	KL-0198-9008		
X3 (F25) model 2010 onwards	KL-0198-80		KL-0198-80		KL-0198-907	KL-0198-9009
X5 (E53) model 2000 - 2007	KL-0198-907		KL-0198-907	KL-0198-9008	KL-0198-907	KL-0198-9009
X5 (E70) model 2006 - 2013	KL-0198-907		KL-0198-907	KL-0198-9008	KL-0198-907	KL-0198-9009
Z3	KL-0198-904			KL-0198-9008		
Mini One model 2003 onwards	KL-0198-905 / -907		KL-0198-905 / -907	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009
Mini One model 2007 onwards			KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009

Citroën	left	front	right	Drive	rear	Drive
Berlingo	KL-0198-904		KL-0198-904	KL-0198-9008	KL-0198-904	KL-0198-9009
C1	KL-0198-901		KL-0198-901	KL-0198-9008	KL-0198-901	KL-0198-9008
C2	KL-0198-901 / -80		KL-0198-901 / -80	KL-0198-9008	KL-0198-901 / -80	KL-0198-9008
C3 model 2009 onwards	KL-0198-907		KL-0198-907	KL-0198-9008	KL-0198-907	KL-0198-9009
C4 model 2006 onwards	KL-0198-80		KL-0198-80			
C5	KL-0198-903		KL-0198-903	KL-0198-9008	KL-0198-902	KL-0198-9008
Evasion			KL-0198-904	KL-0198-9008	KL-0198-901	KL-0198-9009

Fiat	left	front	right	Drive	rear	Drive
500 model 2007 onwards	KL-0198-904		KL-0198-904	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009
500 L model 2012 onwards	KL-0198-905 / -904		KL-0198-905 / -904	KL-0198-9008	KL-0198-901	KL-0198-9009
Bravo model 2007 onwards	KL-0198-907		KL-0198-907	KL-0198-9008	KL-0198-911	KL-0198-9009
Doblo	KL-0198-911		KL-0198-911	KL-0198-9008	KL-0198-909	KL-0198-9009
Ducato 2008 model	KL-0198-905		KL-0198-905	KL-0198-9008		
Fiorino Qubo model 2008 onwards	KL-0198-905		KL-0198-905	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009
Freemont model 2011 onwards	KL-0198-905		KL-0198-905	KL-0198-9008	KL-0198-80	
Grande Punto model 2006 onwards	KL-0198-909		KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Idea model 2003 onwards	KL-0198-911		KL-0198-911	KL-0198-9008	KL-0198-905	KL-0198-9009
Multipia 100 ELX 1999 model	KL-0198-907		KL-0198-907	KL-0198-9008	KL-0198-911	KL-0198-9009
Panda model 09/2003 onwards	KL-0198-905		KL-0198-909	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009
Panda model 2012 onwards	KL-0198-904 / -907		KL-0198-904 / -907	KL-0198-9008	KL-0198-901	KL-0198-9009
Punto model 2006 onwards	KL-0198-909 / -80		KL-0198-909 / -80	KL-0198-9008	KL-0198-909 / -80	KL-0198-9009
Scudo 270 model 2007 onwards	KL-0198-911 / -80		KL-0198-911 / -80	KL-0198-9008	KL-0198-911	KL-0198-9009
Sedici model 2006 - 2014	KL-0198-80		KL-0198-80		KL-0198-909	KL-0198-9009
Seicento 2002 model	KL-0198-901		KL-0198-901	KL-0198-9008	KL-0198-909	KL-0198-9009
Stilo 1,6 16V	KL-0198-909		KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Ulysse model 2002 onwards	KL-0198-905 / -80		KL-0198-905 / -80	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009

Ford	left	front	right	Drive	rear	Drive
B-Max model 2013 onwards	KL-0198-80		KL-0198-80		KL-0198-901	KL-0198-9009
C-Max model 2003 onwards	KL-0198-909		KL-0198-909	KL-0198-9008		
Fiesta model 2002 onwards	KL-0198-909		KL-0198-909	KL-0198-9008		
Fiesta model 2008 onwards	KL-0198-904 / -905		KL-0198-904 / -905	KL-0198-9008	KL-0198-901	KL-0198-9009
Focus model 11/2004 onwards	KL-0198-904		KL-0198-904	KL-0198-9008	KL-0198-901 / -904	KL-0198-9009
Focus model 1998-2005	KL-0198-909		KL-0198-909	KL-0198-9008		
FT 330	KL-0198-901		KL-0198-901	KL-0198-9008	KL-0198-901	KL-0198-9009
Fusion model 2002 onwards	KL-0198-909		KL-0198-909	KL-0198-9008	KL-0198-80	
Galaxy model 2015 onwards	KL-0198-907		KL-0198-907	KL-0198-9008	KL-0198-904	KL-0198-9008
Ka model 2002 - 2009	KL-0198-909		KL-0198-909	KL-0198-9008	KL-0198-909	KL-0198-9009
Ka model 2009 onwards	KL-0198-907		KL-0198-907	KL-0198-9008	KL-0198-901 / -911	KL-0198-9009
Kuga model 2008 onwards	KL-0198-907		KL-0198-907	KL-0198-9008		
Mondeo model 2001 onwards	KL-0198-904		KL-0198-904	KL-0198-9008		
Mondeo Tunier	KL-0198-909		KL-0198-909	KL-0198-9008	KL-0198-911	KL-0198-9009
Mondeo model 2014 onwards	KL-0198-80		KL-0198-80		KL-0198-904	KL-0198-9009
S-Max model 2006 onwards	KL-0198-905		KL-0198-905	KL-0198-9008		
Transit FT330 (rear drive)	KL-0198-901		KL-0198-901	KL-0198-9008	KL-0198-901	KL-0198-9009

Honda	left	front	right	Drive	rear	Drive
Civic VII 2001 model	KL-0198-904		KL-0198-904	KL-0198-9008	KL-0198-901 / -80	KL-0198-9009

Mazda	left	front	right	Drive	rear	Drive
3 model 2003 - 2008	KL-0198-904 / -80		KL-0198-904 / -80	KL-0198-9008	KL-0198-909 / -911	KL-0198-9009
3 model 2009 onwards	KL-0198-80		KL-0198-80		KL-0198-901 / -909	KL-0198-9009
5 model 2005 onwards	KL-0198-80		KL-0198-80		KL-0198-80 / -901	KL-0198-9009
6 model 2007 onwards	KL-0198-80		KL-0198-80		KL-0198-907	KL-0198-9009
Premacy model 2005 onwards	KL-0198-913		KL-0198-913	KL-0198-9008	KL-0198-902	KL-0198-9009

Mercedes	left	front	right	Drive	rear	Drive
A-Class (W176) model 2012 onwards					KL-0198-901	KL-0198-9009
B-Class (W245) model 2005 - 2011	KL-0198-901		KL-0198-901	KL-0198-9008	KL-0198-901 / -909	KL-0198-9009
B-Class (W246) model 2011 onwards	KL-0198-80		KL-0198-903	KL-0198-9008	KL-0198-903	KL-0198-9009
Citan (W415) model 2012 onwards	KL-0198-904		KL-0198-904	KL-0198-9008	KL-0198-901	KL-0198-9008
C-Class (W203) Lim.	KL-0198-905 / -909		KL-0198-909	KL-0198-9008		
C-Class (W203) estate car	KL-0198-909		KL-0198-909	KL-0198-9008		
C-Class (W204)	KL-0198-905 / -907		KL-0198-905 / -907	KL-0198-9008	KL-0198-904	KL-0198-9008
E-Class (W211)	KL-0198-904 / -909		KL-0198-905 / -906	KL-0198-9008		
GLK (X204) model 2008 - 2015	KL-0198-907		KL-0198-907	KL-0198-9008	KL-0198-901	KL-0198-9009
M-Klasse (W163) model 1997 - 2005	KL-0198-903 / -909		KL-0198-903 / -909	KL-0198-9008	KL-0198-909	KL-0198-9008
SLK	KL-0198-903		KL-0198-903	KL-0198-9008		
V-Class (W447)	KL-0198-906		KL-0198-905	KL-0198-9009		
Vito (W639)	KL-0198-903 / -905		KL-0198-903 / -905	KL-0198-9008		

Mitsubishi	left	front	right	Drive	rear	Drive
Colt VI model 2004 onwards					KL-0198-80	
Pajero model 1999 - 2005	KL-0198-80		KL-0198-80		KL-0198-904	KL-0198-9009
ASX model 2010 onwards					KL-0198-901	KL-0198-9009

Application Table KL-0198-.. Series:

Nissan	left	front	right	Drive	rear	Drive
X-Trail T30, 2.2D	KL-0198-907	KL-0198-907		KL-0198-9008	KL-0198-905	KL-0198-9009
Qashqai model 2010 onwards	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-909	KL-0198-9009

Opel	left	front	right	Drive	rear	Drive
Agila model 2000 onwards					KL-0198-909 / -911	KL-0198-9008
Antara model 2007 onwards	KL-0198-907	KL-0198-907		KL-0198-9008	KL-0198-901	KL-0198-9008
Astra G	KL-0198-904	KL-0198-904		KL-0198-9008	KL-0198-901	KL-0198-9008
Astra J model 2009 onwards	KL-0198-905	KL-0198-905		KL-0198-9008	KL-0198-904	KL-0198-9009
Corsa C model 2000 - 2006	KL-0198-902	KL-0198-902		KL-0198-9008	KL-0198-909	KL-0198-9008
Corsa D model 2007 onwards	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-909	KL-0198-9008
Meriva A model 2003 - 2010	KL-0198-907	KL-0198-907		KL-0198-9008	KL-0198-901	KL-0198-9008
Meriva B model 2010 onwards	KL-0198-907 / -905	KL-0198-907 / -905		KL-0198-9008	KL-0198-901 / -904	KL-0198-9008
Mokka 2012 model	KL-0198-905	KL-0198-905		KL-0198-9008	KL-0198-905	KL-0198-9008
Vectra C	KL-0198-901	KL-0198-901		KL-0198-9008	KL-0198-901	KL-0198-9008
Vivaro model 2001 onwards	KL-0198-904	KL-0198-904		KL-0198-9008	KL-0198-904	KL-0198-9008
Zafira model 1999 - 2005	KL-0198-904 / -909	KL-0198-904 / -909		KL-0198-9008	KL-0198-901 / -909	KL-0198-9008
Zafira B model 2005 onwards	KL-0198-903 / -905	KL-0198-903 / -905		KL-0198-9008	KL-0198-903	KL-0198-9008

Peugeot	left	front	right	Drive	rear	Drive
206 model 1998 onwards	KL-0198-904 / -905	KL-0198-904 / -905		KL-0198-9008	KL-0198-904	KL-0198-9009
207 model 2006 onwards	KL-0198-905	KL-0198-905		KL-0198-9008	KL-0198-901	KL-0198-9009
208 model 2012 onwards	KL-0198-905	KL-0198-905		KL-0198-9008		
307 model 2005 onwards	KL-0198-905	KL-0198-905		KL-0198-9008	KL-0198-902	KL-0198-9008
307 CC model 2004 onwards	KL-0198-905	KL-0198-905		KL-0198-9008		
308 model 2008 onwards	KL-0198-905 / -904	KL-0198-905 / -904		KL-0198-9008	KL-0198-901	KL-0198-9009
3008 model 2009 onwards	KL-0198-905	KL-0198-905		KL-0198-9008	KL-0198-901 / -905	KL-0198-9009
407 SW model 2004 onwards	KL-0198-909	KL-0198-909		KL-0198-9008		
407 estate car	KL-0198-909	KL-0198-909		KL-0198-9008		
4007 SUV model 2009 onwards	KL-0198-911	KL-0198-911		KL-0198-9008	KL-0198-911	KL-0198-9009
508 SW model 2010 onwards	KL-0198-905	KL-0198-905		KL-0198-9008	KL-0198-905	KL-0198-9009
5008 model 2009 onwards	KL-0198-905 / -907	KL-0198-905 / -907		KL-0198-9008	KL-0198-905	KL-0198-9009
Bipper	KL-0198-904	KL-0198-904		KL-0198-9008	KL-0198-911	KL-0198-9009
Partner	KL-0198-904	KL-0198-904		KL-0198-9008	KL-0198-901	KL-0198-9009

Renault	left	front	right	Drive	rear	Drive
Clio III model 2007 onwards	KL-0198-907 / -904 / -80	KL-0198-907 / -904 / -80		KL-0198-9008		
Clio IV	KL-0198-905 / -907	KL-0198-905 / -907		KL-0198-9008	KL-0198-903	KL-0198-9008
Kangoo	KL-0198-904	KL-0198-904		KL-0198-9008	KL-0198-904	KL-0198-9008
Laguna	KL-0198-904	KL-0198-904		KL-0198-9008		
Laguna estate car	KL-0198-904	KL-0198-904		KL-0198-9008		
Laguna II	KL-0198-909	KL-0198-909		KL-0198-9008		
Mégane model 1999 onwards	KL-0198-905	KL-0198-905		KL-0198-9008		
Mégane Limousine	KL-0198-905	KL-0198-905		KL-0198-9008	KL-0198-904	KL-0198-9008
Mégane model 2003 onwards	KL-0198-904 / -909	KL-0198-904 / -909		KL-0198-9008		
Modus	KL-0198-901 / -909	KL-0198-901 / -909		KL-0198-9008		
Modus model 2004 onwards	KL-0198-901 / -909	KL-0198-901 / -909		KL-0198-9008		
Scenic I model 1999 - 2003	KL-0198-905 / -907	KL-0198-905 / -907		KL-0198-9008	KL-0198-909 / -911	KL-0198-9009
Scenic II model 2003 onwards	KL-0198-905	KL-0198-909		KL-0198-9008	KL-0198-912	KL-0198-9009
Twingo model 2001 onwards	KL-0198-901 / -909 / -80	KL-0198-901 / -909 / -80		KL-0198-9008	KL-0198-901 / -909 / -80	KL-0198-9008
Twingo model 2008 onwards	KL-0198-904	KL-0198-904		KL-0198-9008	KL-0198-903	KL-0198-9008
Trafic II model 2001 onwards	KL-0198-909	KL-0198-909		KL-0198-9008		

Seat	left	front	right	Drive	rear	Drive
Arosa model 1997 onwards	KL-0198-901	KL-0198-901		KL-0198-9008	KL-0198-904	KL-0198-9009
Exeo model 2009 onwards	KL-0198-906	KL-0198-906		KL-0198-9008	KL-0198-901 / -909	KL-0198-9009
Ibiza 6J model 2008 onwards	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-909	KL-0198-9009
Leon model 2006 onwards	KL-0198-80	KL-0198-80			KL-0198-904	KL-0198-9009

Škoda	left	front	right	Drive	rear	Drive
Fabia II model 2007 onwards	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-904 / -909	KL-0198-9009
Fabia III model 2014 onwards	KL-0198-903	KL-0198-903		KL-0198-9008	KL-0198-903	KL-0198-9009
Rapid model 2012 onwards	KL-0198-907	KL-0198-907		KL-0198-9008	KL-0198-901	KL-0198-9009
Roomster	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-904	KL-0198-9009
Superb model 2008 onwards	KL-0198-909	KL-0198-909		KL-0198-9008		
Superb model 2015 onwards	KL-0198-909	KL-0198-909		KL-0198-9008		
Octavia 1Z	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-909	KL-0198-9009

Smart	left	front	right	Drive	rear	Drive
for four model 2004 - 2006	KL-0198-901	KL-0198-901		KL-0198-9008	KL-0198-901	KL-0198-9009

Toyota	left	front	right	Drive	rear	Drive
Aygo model 2009 onwards	KL-0198-901	KL-0198-901		KL-0198-901	KL-0198-901	KL-0198-9009

VW	left	front	right	Drive	rear	Drive
Beetle	KL-0198-909	KL-0198-909		KL-0198-9008		
Fox	KL-0198-901	KL-0198-901		KL-0198-9008	KL-0198-904	KL-0198-9009
Golf IV	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-909	KL-0198-9009
Golf V	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-909	KL-0198-9009
Golf VI	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-904	KL-0198-9009
Lupo	KL-0198-901 / -904	KL-0198-901 / -904		KL-0198-9008	KL-0198-901 / -904	KL-0198-9009
Lupo model 2002 onwards	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-909	KL-0198-9009
Passat up to 2000	KL-0198-903	KL-0198-903		KL-0198-9008	KL-0198-904	KL-0198-9009
Passat model 2001 onwards	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-904	KL-0198-9009
Passat CC model 2008 onwards	KL-0198-909	KL-0198-909		KL-0198-9008		
Polo model 1999 - 2001	KL-0198-904	KL-0198-904		KL-0198-9008	KL-0198-904	KL-0198-9009
Polo model 2001 onwards	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-909	KL-0198-9009
Polo (6R1) model 2009 onwards	KL-0198-904	KL-0198-904		KL-0198-9008	KL-0198-904	KL-0198-9009
Scirocco model 2008 onwards	KL-0198-907	KL-0198-907		KL-0198-9008	KL-0198-904	KL-0198-9009
Sharan model 2000 onwards	KL-0198-906	KL-0198-906		KL-0198-9008	KL-0198-904	KL-0198-9009
Sharan model 2010 onwards	KL-0198-905	KL-0198-905		KL-0198-9008	KL-0198-905	KL-0198-9009
TS	KL-0198-905	KL-0198-905		KL-0198-9008	KL-0198-909	KL-0198-9009
Tiguan model 2008 onwards	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-909	KL-0198-9009
Touran model 2003 onwards	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-909	KL-0198-9009
Touran model 2010 onwards	KL-0198-904 / -909	KL-0198-904 / -909		KL-0198-9008	KL-0198-905	KL-0198-9009
Touareg	KL-0198-906 / -909	KL-0198-906 / -909		KL-0198-9008	KL-0198-906 / -909	KL-0198-9009
Up! model 2011 onwards	KL-0198-909	KL-0198-909		KL-0198-9008	KL-0198-904	KL-0198-9009



Technical Data:

Drive:	1/2"
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* = reg. trademark of Acument Intellectual Properties, LLC. USA

KL-0570-20

Special Torx® Socket T80 (with bore)

Suitable for BMW E31, E38 and E39.

Necessary for the removal and installation of windscreen wiper arms. It can also be used for adjusting the contact pressure, for example, when replacing the windscreen. This special Torx® socket is hollow-drilled on the inside to retain the wiper arm bearing shaft.

KL-0049-300

Slide Hammer Puller, 4.8kg (Base Tool)



The ideal tool for extracting stuck or tight-fitting components such as half-shafts, universally jointed drive shafts, injector nozzles etc. It is used in conjunction with the respective adaptors and puller bolts.

Scope of Delivery: KL-0049-300 Slide Hammer Puller, 4.8 kg (Base Tool)

Part No.	Description	Qty
KL-0049-3001	Pull Rod for KL-0049-3	1
KL-0049-3002	Hammer Weight, 4.8kg, for KL-0049-3	1
KL-0049-3003	Handle for KL-0049-3	1
KL-0049-3004	Hex Nut, M18	1

KL-0049-3020

Hook



Used in conjunction with the slide hammer puller **KL-0049-31** for pulling chassis parts.

KL-0049-350

Clip with Hook and Joint



Scope of Delivery: KL-0049-350 Clip with Hook and Joint

Part No.	Description	Qty
KL-0049-3500	Clip	1
KL-0049-3501	Hook	1
KL-0049-3502	Joint M18	1

Designed to pull car body panels. Used in conjunction the slide hammer puller **KL-0049-31** or **KL-0049-300**.

The forged clip **KL-0049-3500** has an automatic self stress on the cone. Its field of application is a pulling force of up to 20t.

The forged hook **KL-0049-3501** made of hardened and tempered steel is suitable to any chain end of any make. When the chain is moved or remounted, it does not twist but it runs back parallel to itself. The clip **KL-0049-3500** is connected to slide hammer puller **KL-0049-31** or **KL-0049-300** by means of the hook **KL-0049-3501** and joint **KL-0049-3502**.

KL-0270-31 C

Bit Wrench, Angled, (Reinforced Design), with 8 Bit Inserts

Suitable for Mercedes Toe Adjustment, e.g. on 190 Series (W201), C-Class (W202), C-Class (W203), 200-300 E (W124), E-Class (W210, W211), S-Class (W220).

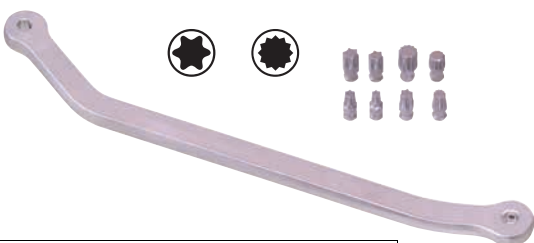
The **KL-0270-31 C** wrench is the ideal tool for setting the toe at the rear axle.

Due to its special shape, this tool allows the user to easily and accurately turn the adjusting screw which is particularly hard to access.

Technical Data:

Length:	320mm
Bit Insert:	T30, T40, T45, T50, T55, XZN-8, XZN-10, XZN-12
Bit Insert (height):	20mm
Bit Drive:	5/16"
Weight:	500g

* = reg. trademark of Acument Intellectual Properties, LLC. USA



KL-0270-304

Bit Insert Set (8-Piece Set)

Composed of 5/16" Drive Bit Inserts in Sizes:
(Torx®) T30, T40, T45, T50, T55,
XZN-M8, XZN-M10, XZN-M12.

* = reg. trademark of Acument Intellectual Properties, LLC. USA



KL-0120-80

Fuel Tank Sensor Spanner Set (adjustable)

Universal application.

For loosening and tightening the plastic lock ring of the fuel sensor on fuel tanks.

Scope of Delivery:

KL-0120-80 Fuel Tank Sensor Spanner Set (adjustable)

Part No.	Description	Range:	Drive:
KL-0120-801	Fuel Tank Sensor Spanner, Ø 80-120mm	80-120mm	24mm
KL-0120-802	Fuel Tank Sensor Spanner, Ø 110-170mm	110-170mm	24mm



KL-0272-10

Slotted Nut Spanner Set (3 pcs.)

Suitable for: VW Polo, Sharan; Ford Galaxy; Seat Alhambra.

For the quick and easy loosening and tightening of the slotted nut retaining the multi-pin electric socket on the door pillar.
Required when the door needs to be removed.

Size	Application examples
Size 1	VW Polo front doors; VW Sharan, Ford Galaxy, Seat Alhambra rear doors
Size 2	VW Sharan, Ford Galaxy, Seat Alhambra (until 2000) front doors
Size 3	VW Sharan, Ford Galaxy, Seat Alhambra (2001 onwards) front doors



KL-0273-10

Removal Tool for Car Door Handle

Suitable for VW Golf (VI), Fox, Tiguan, Passat (3C), Q7, etc.

For removing the cover cap on car door handles without key cylinder.
Required for removing the door handle. This removal tool for car door handle allows trouble-free loosening of the hard-to-reach locking hook.

Technical Data:

Length:	240mm
Weight:	70g



KL-0271-1

Headlight Adjustment Tool

Suitable for VW Golf (III) and Vento.

Technical Data:

Length:	300mm
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KL-0270-2 Screwdriver, XZN M4

Suitable for the door handles found on VW Passat from 1996 onwards and Golf (IV).



Technical Data:

Length:	300mm
Weight:	70g

* = reg. trademark of Acument Intellectual Properties, LLC. USA

KL-4305-6225 Screwdriver, Torx® T25

For the removal/installation of headlights found on VW Sharan from 2000 onwards.

The long, slim design of this screwdriver allows the Torx® bolts on the headlights to be reached with ease.



KL-4306-6330 Torx® Screwdriver with T-Handle, T30x350mm

For the front mudguard fixing bolts on, e.g. Audi A4, A6; BMW 3 Series E36/E46, 7 Series E38.

This tool is required to allow the front mudguards to be removed and replaced without the need to remove the front doors. The long, slim design of the tool allows the hard-to-reach Torx® bolts in the A-pillar to be removed and replaced with the car door being open.

Technical Data:

Length:	350mm
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* = reg. trademark of Acument Intellectual Properties, LLC. USA

For removal/installation of headlights on Audi A4, A6.

The long, slim design of the T-handle allows the Torx® Bolts on the headlights to be reached with ease.

For removal/installation of door trim panels, e.g. on BMW 3 Series E36, 5 Series E60.



Technical Data:

Weight:	100g
Size:	T20
Shaft Length:	220mm
Overall length:	260mm

KL-4306-8320 5-Point Screwdriver with T-Handle (T20x260mm)

Suitable for Mercedes.

The length and narrow shape of the KL-4306-8320 five-point screwdriver makes it ideal for removing and installing exterior rear view mirrors on Mercedes vehicles.

Note:

On Mercedes vehicles with the outside mirror shown here, the following retaining screws are used:

OEM = Torx® T20 (KL-4306-6320) or 5-point star T20

MB spare part = 5-point star T20

* = reg. trademark of Acument Intellectual Properties, LLC. USA



KL-4305-6220 Screwdriver, Torx® T20

For removing/installing the door handles on Mercedes A-Class and C-Class.

The long, slim design of this screwdriver allows the Torx® Bolts on the door handle to be reached with ease.

Technical Data:

Length:	300mm
Weight:	60g

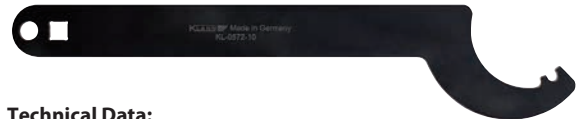
* = reg. trademark of Acument Intellectual Properties, LLC. USA

KL-0572-10

Adjustment Tool for Door Window Glass, BMW

Suitable for MINI and BMW window regulators; as found, for example, in MINI Cooper/Cooper S (R50, R53, R52), as well as BMW 1 Series (E81, E82).

Designed for the quick and easy slackening of the adjustment nut on window regulators. Necessary, for example, after the installation of a new window regulator.



Technical Data:

Overall length:	302mm
Weight:	195g

KL-0190-41

Rivet Removal Pliers

With 90° swivelling head.

Designed to open the re-usable two-part plastic body-bound rivets; for example those used on plastic trims or door trims.

By extracting the central spreader pin from the rivet head with the pliers **KL-0190-41**, the plastic body-bound rivet can be withdrawn.



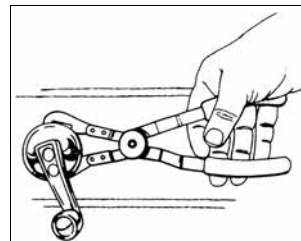
KL-0190-7

Door Handle Clip Pliers

Universal application.

For the removal of Omega retaining clips, for example, on sun visors, rear-view mirrors, window cranks etc.

Using this tool prevents damage to sun visors, door trims etc.

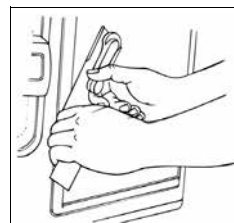


KL-0190-82

Window and Door Handle Clip Remover

Universally suitable.

Designed to remove the Omega retaining clips found on door handles, window winders, etc.



KL-0190-10

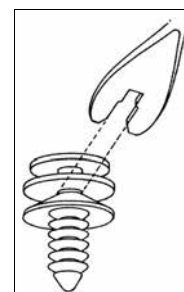
Trim Pry

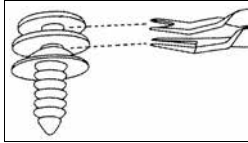
Universal application.

For the removal of trims such as door inner linings etc. that are fixed with plastic trim clips.

Technical Data:

Weight:	200g
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KL-0190-4 Door Trim Pliers

(Universal)

Universal application.

Particularly suitable for trim components such as door trims etc. which are fastened by means of plastic plugs.

Pliers can also be used for trim strips, bumper rubber linings, etc.



KL-0190-42 Rivet Removal Pliers

Designed to open the re-usable two-part plastic body-bound rivets; for example those used on plastic trims or door trims.

By extracting the central spreader pin from the rivet head with the pliers **KL-0190-42** the plastic body-bound rivet can be removed.



KL-0194-130 A Set of Plastic Wedges (4-Piece)

The four plastic wedges are particularly suitable for car body work such as the removal and installation of trim strips, door trims, door clips etc.

Scope of Delivery / Technical Data: KL-0194-130 A Set of Plastic Wedges (4 pcs.)

Part No.	Description	Weight	Dimensions (LxWxH)
KL-0194-13 A	Plastic Wedge, with Felt	75g	255x20x25mm
KL-0194-14 A	Plastic Wedge, with Straight and Sloping Tip	35g	250x20x10mm
KL-0194-15 A	Plastic Wedge	75g	200x30x25mm
KL-0194-16 A	Plastic Wedge, Angled, with Cutout and Pin (for door clips)	55g	230x22x8mm



KL-0194-131 A Set of Plastic Wedges (3-piece)

The three plastic wedges are particularly suitable for body work such as removing and installing trim strips, door trims, door clips etc.

Scope of Delivery / Technical Data: KL-0194-131 A Set of plastic wedges (3 pcs.)

Part-No.	Description	Weight	Measures (L x W x H)
KL-0194-13 A	Plastic wedge with felt	75g	255 x 20 x 25mm
KL-0194-14 A	Plastic wedge with straight and sloping tip	35g	250 x 20 x 10mm
KL-0194-15 A	Plastic wedge	75g	200 x 30 x 25mm



KL-0194-100 Set of Nylon Levers

These nylon levers are particularly suitable for removing trim strips, door trims, windscreen rubber seals, etc.

The levers are made of nylon to prevent damage to glass, paintwork and door trims.

Scope of Delivery / Technical Data: KL-0194-100 Set of Nylon Levers

Part No.	Description	Weight	Measures
KL-0194-10	Nylon Mounting Wedge	100g	200x26x26mm
KL-0194-11	Nylon Mounting Lever	15g	Length: 201mm
KL-0194-12	Nylon Mounting Lever	25g	Length: 202mm

KL-0190-100

Removal Tool Set for Door and Side Panel Trims

The correct removal of interior trim elements in vehicles is an important issue as in contrast to work inside the engine compartment, under the car or on the brakes, the car's owner will not overlook marks or damage inside the car caused by repair work. Damaged screw heads, scratched paint or marks caused by the use of unsuitable tools reflect badly on the quality of the workshop. The careful use of these tools ensures the vehicle interior remains unmarked during service and repair of the interior components.

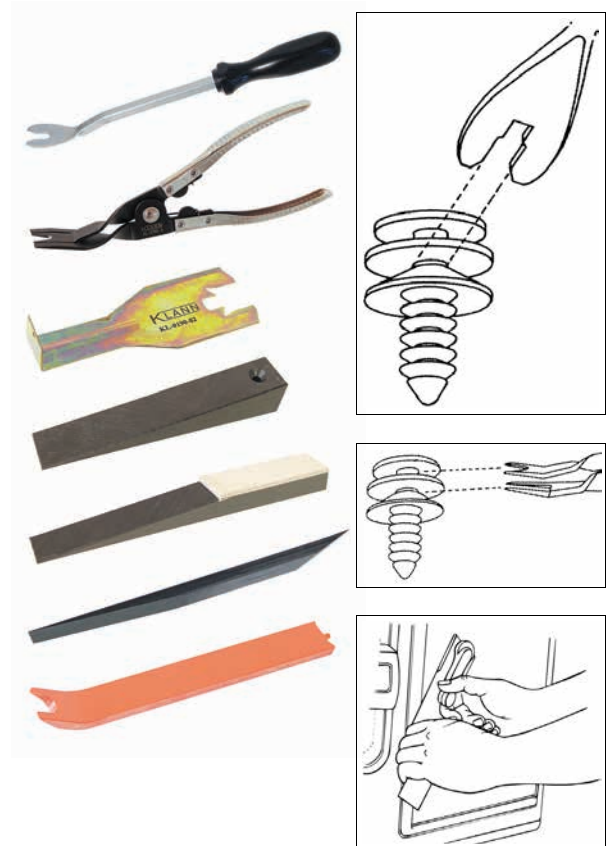
Advantage:

- Universal application.
- Professional working.
- No damage to trim elements.

Scope of Delivery:

KL-0190-100 Removal Tool Set for Door and Side Panel Trims

Part No.	Description	Qty
KL-0190-10	Release Lever - To remove door panel trims.	1
KL-0190-4	Door Trip Pliers - Universal: To release most types of clip. Also suitable for trim strips, rubber bumper facings, etc.	1
KL-0190-82	Door Spring Release Tool - To remove and install retaining clips e.g. on door handles, window crank handles, etc. Suitable for almost all vehicles.	1
KL-0194-130 A	Set of Plastic Wedges (4 pcs.) - The four plastic wedges are particularly suitable for work on the car body e.g. removing and installing door trims, door clips, trim strips, etc.	1



KL-0190-50

Hog Ring/Pliers Kit

For installing upholstery hog rings on vehicle seats (various makes).

Technical Data:

Dimension:	220x115x33mm
Weight:	500g

Scope of Delivery:

KL-0190-50 Hog Ring/Pliers Kit

Part No.	Description	Qty
KL-0190-5	Hog Ring Pliers	1
KL-0190-501	Hog Rings (100 Pcs)	1
KL-0190-5090	Plastic Storage Case (empty)	1



KL-0470-10

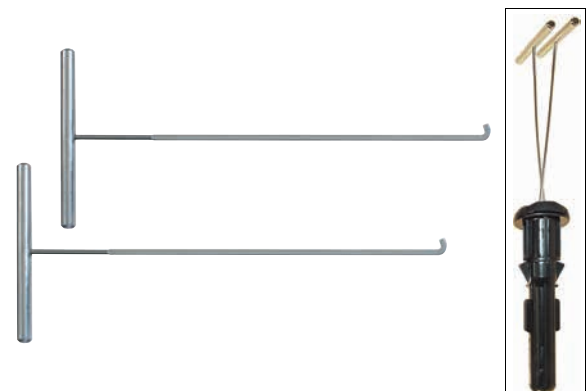
Set of Pulling Hooks, Opel/Vauxhall

Suitable for Opel/Vauxhall Astra, Corsa, Frontera, Omega, Tigra, Vectra, Zafira.

In order to allow the head restraint guide bushing to be removed from the seat back without the need for dismantling the upholstery, it is necessary to release the inner locking tangs using the **KL-0470-10** hook set.

Technical Data:

Length:	166mm
Weight:	42g





Technical Data:

Weight:	170g
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KL-0194-41

Windscreen Locking Strip Tool

Used to insert pipings into the conventional windscreen gaskets. (not intended for use on glued windscreens).

The tool features two eyelets to fit various piping dimensions.



KL-0194-27

Cutting Wire Tool Set

For cutting glued glass panes; set consists of 2 self-locking handles, 50m of square cutting wire, 1 awl with eyelet, 1 wooden case (275x145x38mm).

Accessories: KL-0194-273 Cutting Wire, 50m

Technical Data:

Weight:	800g
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KL-0194-30

Car Dashboard Protection Set

Universally applicable on vehicles with glued windscreens.

The use of these dashboard protective elements ensures that the interior trim, vehicle roof lining and dashboard do not get dirty or damaged when cutting out glued vehicle panes such as the windscreen.

Advantages:

- Neat and professional working.
- Universal application.
- Prevents expensive damage.
- Substantial time and cost savings.

Technical Data:

Weight:	600g
Width (small protective element):	270mm
Width (large protective element):	450mm



KL-0192-24

Snipe Nose Pliers (long design)

With extra long grip, straight tips for mounting position that are hard to access.

Technical Data:

Length:	280mm
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KL-0192-25

Snipe Nose Pliers (long design) 45°

With extra long grip, tips angled 45°, for mounting position that are hard to access.

Technical Data:

Length:	280mm
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Technical Data:

Length:	180mm
Blade width:	32mm

KL-0191-3

Gasket Scraper - Extra-Wide Design

Thanks to its short and extra-wide design, ideal for the cleaning of sealing faces. The tool can also be used for removing underbody sealant when carrying out repairs.

KL-0191-30

Gasket Scraper Set

Suitable for cleaning sealing faces etc.; can also be used to remove underbody sealants during repairs.

The tool set consists of four scrapers; one short, narrow scraper with a flexible blade and one short, narrow scraper with an extra sturdy blade, as well as two long and wide scrapers, one with a flexible blade and one with an extra sturdy blade.

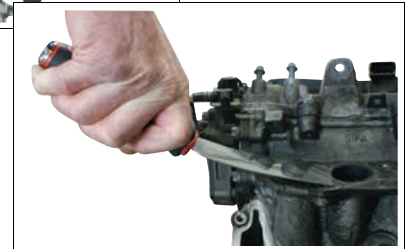
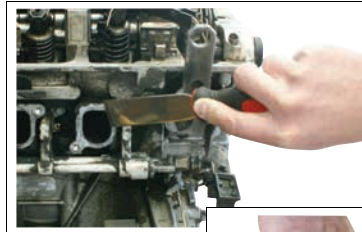
Technical Data:

Length:	230mm
Blade width:	31.5mm
Blade strength:	1.2mm
Weight:	109g

Length:	230mm
Blade width:	31.5mm
Blade strength:	2.5mm
Weight:	145g

Length:	180mm
Blade width:	20mm
Blade strength:	1.2mm
Weight:	90g

Length:	180mm
Blade width:	20mm
Blade strength:	2.5mm
Weight:	107g



KL-0196-30

Screwdriver Set for Battery Screw Plugs

Universal application. Also suitable for the ventilating-/locking screw on the radiator; for example on BMW vehicles.

This tool is designed for loosening and tightening the cross-recessed plastic screw plug on the starter battery or plastic radiators without the risk of damage.

Scope of Delivery:

KL-0196-30 Screwdriver Set for Battery Screw Plugs

Part No.	Description	Qty
KL-0196-301	Screwdriver for Battery Screw Plug, 1.3mm	1
KL-0196-302	Screwdriver for Battery Screw Plug, 1.8mm	1



Technical Data:

Length of screwdriver:	90mm
Length of T-handle:	80mm
Shaft Ø:	12mm
Width of cross recess (KL-0196-301):	1.3mm
Width of cross recess (KL-0196-302):	1.8mm
Weight:	180g

KL-0157-..

Twin-Arm Battery Terminal Puller

The perfect tool for removing small parts such as battery terminals, pulleys, gears, ball bearings, etc. The hook tips grip automatically.

Technical Data KL-0157-1:

Max. pulling width:	60mm
Max. pulling height:	60mm
Max. load capacity:	0.5t
Weight:	0.3kg

Technical Data KL-0157-2:

Max. pulling width:	60mm
Max. pulling height:	40mm
Max. load capacity:	0.5t
Weight:	0.3kg

KL-0157-1

KL-0157-2





Technical Data:

Pulling Range:	max. 90mm
Height:	135mm

KL-0153-1

Steering Wheel Puller, Opel/Vauxhall

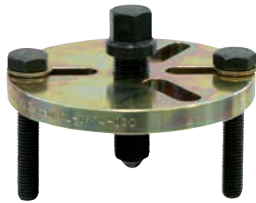
Suitable for Opel/Vauxhall, Ford etc.

Steering wheels which are stuck on the steering column can be pulled off professionally, quickly and without damage to the steering column and steering wheel by using the **KL-0153-1** puller.

Thanks to the different length of the puller arms and the longitudinal groove in the yoke, the tool is almost universally applicable.

Advantages:

- Universal application.
- No damage to the steering wheel during pulling action.



Technical Data:

Pulling Range:	40-88mm
Screws:	M10x60mm

KL-0153-2

Steering Wheel Puller, Mercedes Lorries

Suitable for Mercedes vans and lorries.

The puller **KL-0153-2** allows quick and easy removal of stubborn steering wheels without risk of damage neither to the steering column splines nor the steering wheel.

Advantages:

- Due to the longitudinal grooves in the puller plate, this puller can be universally used as a two-arm puller as well as a three-arm puller.
- Flanged nut of the spindle prevents the operating tool from slipping.
- No damage to the steering wheel during extraction.



KL-0372-4

Mounting Sleeve

for Ignition Switch Retaining Ring, Mercedes

Suitable for Mercedes W202 and W210 until 1997.

The mounting sleeve **KL-0372-4** is a special tool designed for removing and refitting the ignition switch.

The tool consists of tubular-type outer casing with a vulcanized rubber insert.

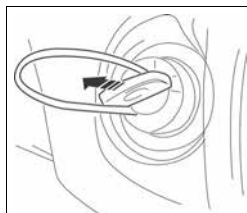


KL-0372-6

Mounting Sleeve for Ignition Switch, Mercedes

Suitable for Mercedes vehicles with FBS 2 and FBS 3 Ignition Switch on W129, W140, W203, W208, W209, W210, W211, W220, W230 and W906 (Sprinter) as well as VW Crafter.

Designed to loosen the ignition switch retaining ring.



KL-0372-1

Needle Set for Ignition Switch Removal, Mercedes

Suitable for Mercedes W116, W123 W124, W126 and W201.

For removing the ignition switch. The needle set **KL-0372-1** contains needles of size 1 and size 2 with a diameter of 1.25 and 2.0mm respectively.

Designed for the removal of the ignition switch on the following models:

- Needle 1 on **Mercedes W116, W123 and W126.**
- Needle 2 on **Mercedes W124 and W201.**

Advantages:

Trouble-free and quick removal of the ignition switch on the vehicle types mentioned above.

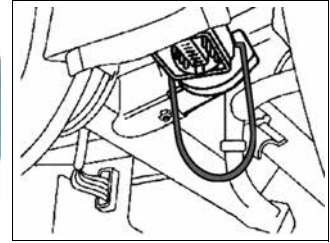
KL-0372-70

Spring Clip

for Protecting Sleeve/Steering Lock (2 units), Mercedes

Suitable for Mercedes W129, W140, W210 and W202 with FBS2 ignition switch system.

The spring clip **KL-0372-70** is required to push both locking bolts into the steering lock in order to enable the removal of the protecting sleeve with the ignition starter switch from the steering lock. The set consists of 2 spring clips made of NIROSTA®-Steel.

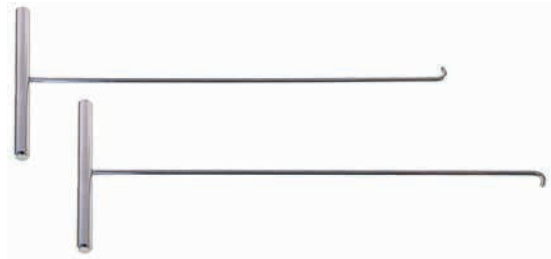


KL-0372-3

Set of Pulling Hooks (long), Mercedes

Suitable for Mercedes W116, W123, W124, W126, W129, W140, W201, W202, W203, W208, W209, W210, W211, W220, W230 as well as VW Crafter.

For removing the instrument cluster.



KL-0191-10

Special Screwdriver Bit Socket with Bore, Torx® T30

Suitable for removal and installation of airbags on BMW, Mercedes etc.

The screwdriver bit socket **KL-0191-10** is hollow bored on the inside to retain the special Torx® screws found on airbags.

Thanks to the special tool length of 85mm, the airbag mounting screws can easily be reached.

Technical Data:

Length:	85mm
Drive:	1/4"
Weight:	22g

* = reg. trademark of Acument Intellectual Properties, LLC. USA



KL-0191-11

Special Screwdriver Bit Socket, Torx® T30

Suitable for removal and installation of airbags on VW, Audi A4 (models '96-'05), Opel/Vauxhall, Renault etc.

The screwdriver bit socket **KL-0191-11** is suitable to retain the conventional Torx® screws on airbags. Socket is not hollow-bored on the inside.

Technical Data:

Length:	85mm
Drive:	1/4"
Weight:	22g

* = reg. trademark of Acument Intellectual Properties, LLC. USA



Accessories (on demand):

2093 U-20 CODE:1703749 - Reversible ratchet 1/4" 127mm





KL-0242-10

Airbag Removal Tool Set (2 pcs.)

Suitable for driver-side airbags on VW Golf (IV, V), Lupo, New Beetle, Passat (B5) '97 onwards, Polo '99 onwards, Sharan 06/00 onwards.

For correct removal of the driver-side airbag it is necessary to release the retaining bracket from its anchor with the appropriate wrench.

Scope of Delivery:

KL-0242-10 Airbag Removal Tool Set (2 pcs.)

Part No.	Description	Qty
KL-0242-101	Airbag Removal Tool, Golf IV	1
KL-0242-102	Airbag Removal Tool, Passat B5	1



KL-0240-1

Puller for Spacer Sleeves, VW

Suitable for vehicle models from 1988 onwards, such as VW Golf (II and III), Jetta, Vento, Polo, Passat, etc.

When replacing steering column switches, it is necessary to firstly remove the steering wheel and then, extract the spacer sleeve from the cone of the steering column.

The special design of the puller **KL-0240-1** ensures that its collet chuck precisely encompasses the spacer sleeve, thus enabling quick and smooth extraction of the sleeve.

Technical Data:

Clamping range:	27-30mm
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KL-0240-2

Drive-In Mandrel for Spacer Sleeves

The drive-in mandrel **KL-0240-2** made of brass allows spacer sleeves to be pushed into the steering column without risk of damage.



KL-4305-6208

Torx® Screwdriver, T8x200mm

Suitable, e.g. for Audi A4 (8E), A6 (4F) steering column cover.

The long and narrow shape of the **KL-4305-6208** Torx® Screwdriver makes it ideally suited for removing and installing the steering column cover on Audi A4 and A6 etc.

Technical Data:

Weight:	70g
Size:	Torx® T8
Shaft length:	200mm
Overall length:	300mm

* = reg. Trademark of Acument Intellectual Properties, LLC. USA



KL-0190-28 K

Terminal Tool Set for Push-On Contacts

For releasing terminals from automotive plugs and connectors.

The handy and ergonomic design of the blue anodized aluminium handles ensures safe working without the risk of slipping.

Due to their very short shape, the terminal tools enable the easy release of cable plug-and-socket connections, even if these are difficult to access.

During the release procedure, the barbed hooks are pushed on the terminal by means of the tool forks, so that the cable with the plug can be extracted with ease.

Thanks to its wide range of different inserts, the terminal tool set **KL-0190-28 K** enables the trouble-free release of terminal contacts in automotive electrical connectors without any risk of damage or injury.

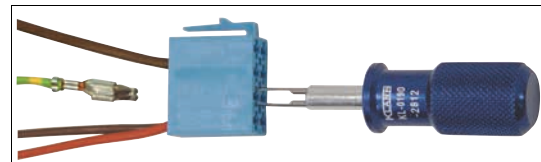
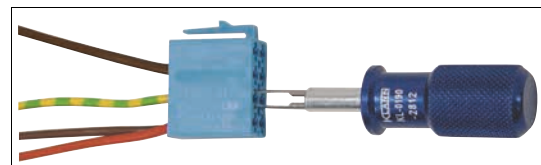
Advantages:

- The tool is easy to operate.
- Substantial time savings.
- Professional and safe working.

Scope of Delivery:

KL-0190-28 K Terminal Tool Set for Push-On Contacts

Part No.	Suitable for:
KL-0190-2801	Audi, BMW, Ford, Mercedes, Opel/Vauxhall, Renault, Seat, VW
KL-0190-2802	Audi, BMW, Ford, VW
KL-0190-2803	Audi, BMW, Ford, Mercedes, Opel/Vauxhall, Renault, Seat, VW
KL-0190-2804	BMW, Ford
KL-0190-2805	Audi, BMW, Mercedes, Opel/Vauxhall, Seat, Škoda, VW
KL-0190-2806	Audi, BMW, Mercedes, Opel/Vauxhall, Renault, Seat, Škoda, VW
KL-0190-2807	BMW, Mercedes
KL-0190-2808	Audi, Seat, Škoda, VW
KL-0190-2809	Audi, Opel/Vauxhall, Renault
KL-0190-2810	BMW, Mercedes
KL-0190-2811	BMW, Mercedes
KL-0190-2812	Audi, BMW, Mercedes, Opel/Vauxhall, Seat, VW
KL-0190-2813	BMW, Mercedes, Opel/Vauxhall
KL-0190-2814	BMW, Mercedes
KL-0190-2815	Audi, BMW, Opel/Vauxhall, VW
KL-0190-2816	BMW, Mercedes
KL-0190-2817	Audi, BMW, Mercedes, Škoda, Opel/Vauxhall, Seat, VW
KL-0190-2818	Audi, BMW, Mercedes, Opel/Vauxhall, Seat, Škoda, VW
KL-0190-2819	Audi, BMW, Ford, Mercedes, Opel/Vauxhall, Renault, Seat, VW



KL-0189-90

Condenser Wrench Socket

Suitable for the PSA vehicles equipped with a Start-Stop-System such as Peugeot 208, 2008, 308, 3008, 508, 5008, 4008, Partner 3, Partner B9, Partner Tepee B9; Citroën C3 (A51), C3 Picasso, C4 (B7) B54, C4 Picasso (B78), C5 (X7), DS3, DS5, Berlingo III, Berlingo (B9) with 1.4, 1.6 or 1.8 HDI /eHDI engines.

For loosening and tightening the cable glands found on energy storage systems. A very useful tool when removing the condenser (for example after an accident) or when replacing components on energy storage systems.

Technical Data:

Drive:	1/4"
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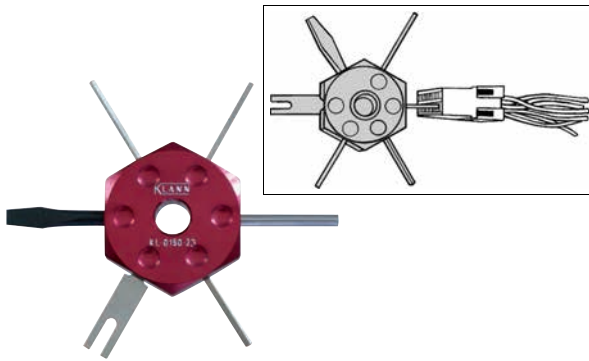


Accessories (on demand):

2093 U-20 CODE:1703749

Reversible ratchet 1/4" 127mm





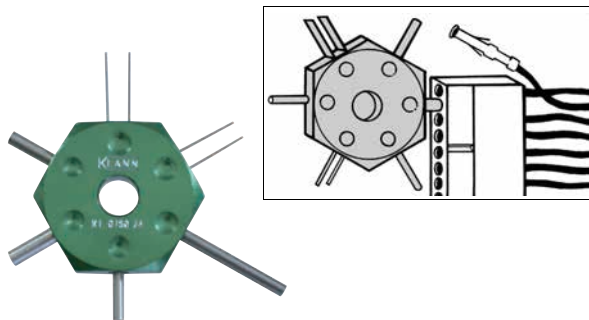
KL-0190-23

Terminal Tool for Push-On Contacts

Designed to release the terminals in plug and socket cable connections. Designed for Pack-Con and Weather-Pack terminals on GM C3 Systems.

Technical Data:

Weight:	60g
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KL-0190-24

Terminal Tool for Push-on Contacts

The terminal tool **KL-0190-24** is used to release the terminals in plug and socket cable connections.

During the release procedure the tool forks are pushed onto the terminal release mechanism, releasing them from the connector. The terminals can then be extracted from the plug or socket.

Technical Data:

Weight:	60g
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KL-0190-20

(Universal)

Pliers for Light Bulbs

Universally suitable for VW-Audi, Opel/Vauxhall, Ford, Mercedes, BMW, etc.

This tool is designed to extract wedge base bulbs, for example, bulbs used for instrument lighting in the dashboard.

The coated tips of the pliers prevent damage to the light bulb.

Technical Data:

Length:	165mm
Weight:	150g



KL-0190-21

(Universal)

Pliers for Light Bulbs

Universally applicable.

This tool is designed to extract very small wedge base bulbs, for example bulbs used for instrument lighting in dashboards, illuminated switches etc.

Technical Data:

Length:	135mm
Weight:	78g



KL-0190-27

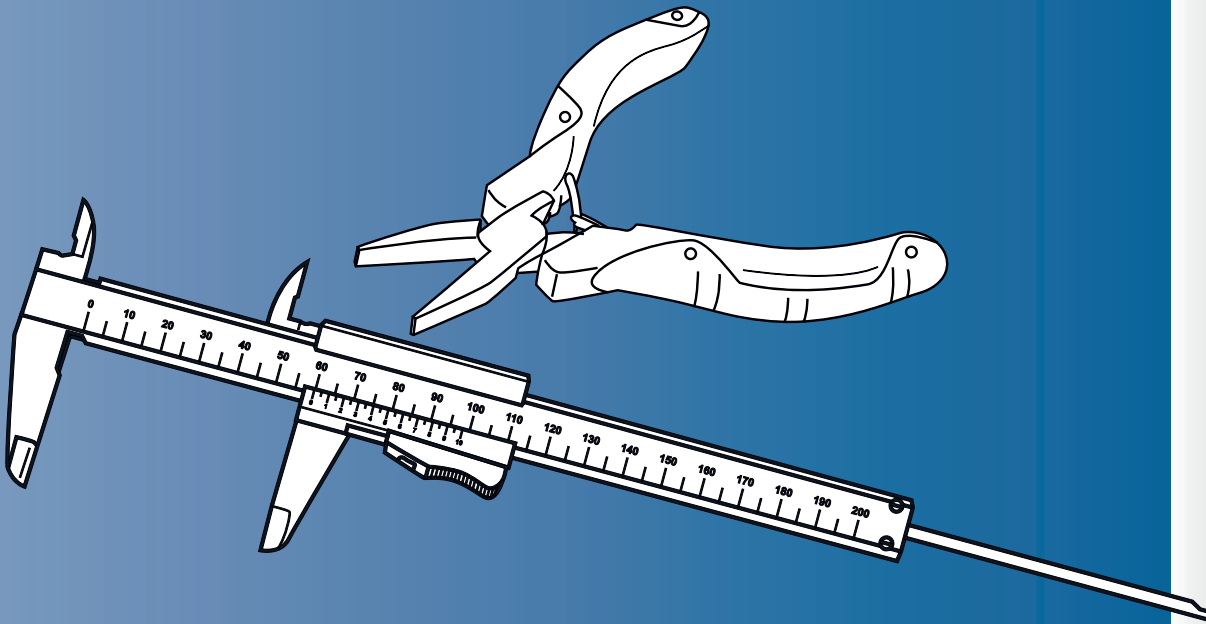
(Universal)

Pliers for Light Bulbs

Very light all-plastic pliers suitable to extract small glass-based light bulbs installed in control panels or in luminous switches.

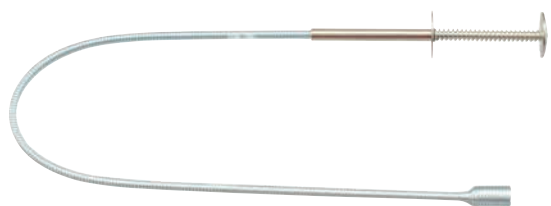
Technical Data:

Length:	156mm
Weight:	5g



Miscellaneous

10



KL-0126-2

Flexible Magnetic Lifter (retractable)

Magnetic Lifter with flexible Shaft.

The lifting magnet is located within an anti-magnetic sleeve. This allows the tool to be positioned accurately before the magnet comes into operation. The magnet is triggered by pressing the handle which slides back the protective anti-magnetic sleeve.

Technical Data:

Magnet power:	400g
Magnetic head -Ø:	7mm
Length:	560mm
Weight:	80g



KL-0126-202

Flexible Magnetic Lifter (aluminium)

With flexible shaft, which will remain in any desired bended position.

Technical Data:

Magnet power:	600g
Magnetic head -Ø:	8mm
Length:	540mm
Weight:	30g



KL-0126-203

Flexible Magnetic Lifter

This flexible magnetic lifter enables metallic objects to be removed even from hard-to-reach areas.

Technical Data:

Magnet power:	600g
Magnetic head -Ø:	8mm
Length:	470mm
Weight:	70g



KL-0126-204

Flexible Magnetic Lifter (strong magnet power)

This flexible magnetic lifter enables metallic objects to be removed even from hard-to-reach areas. The flexible shaft will remain in any desired bended position.

Technical Data:

Magnet power:	2,000g
Magnetic head -Ø:	15mm
Length:	480mm
Weight:	140g



KL-0126-206

Telescopic Magnetic Lifter (strong magnet power)

This telescopic magnet lifter enables metallic objects or particles to be removed even from hard-to-reach areas.

Technical Data:

Length:	130-630mm
Magnetic head Ø:	11mm
Magnet power:	1,600g
Weight:	33g

KL-0126-212

Telescopic Magnetic Lifter (magnet power 3.6 kg)

This telescopic magnet lifter enables metallic objects or particles to be removed even from hard-to-reach areas.

Technical Data:

Length:	135-650mm
Magnetic head-Ø:	15mm
Magnet power:	3,600g
Weight:	61g



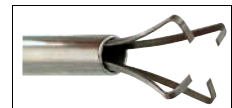
KL-0126-250

Claw Pickup Tool

Used for gripping and removing small parts like nuts, bolts, washers, etc. from areas that are hard to reach.

Technical Data:

Length:	600mm
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KL-0126-209

Telescopic Mirror

Allows hard-to-reach places to be easily seen. Any orientation possible (360° rotatable)

Technical Data:

Length:	320-720mm
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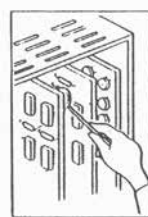
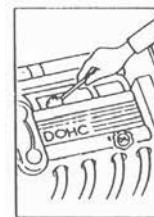
KL-0126-261

Telescopic Mirror, Ø 50mm, 300mm long

Allows hard-to-reach places to be easily seen. Any orientation possible (rotatable)

Technical Data:

Length:	170-300mm
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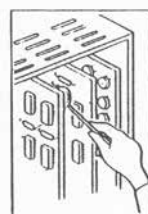
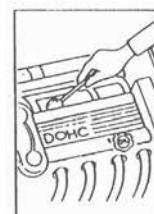
KL-0126-260

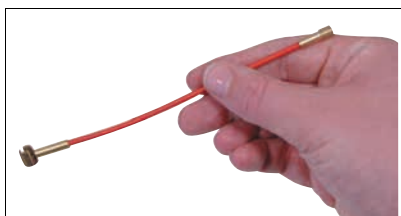
Telescopic Mirror, Ø 32mm, 485mm long

Allows hard-to-reach places to be easily seen. Any orientation possible (rotatable)

Technical Data:

Length:	135-485mm
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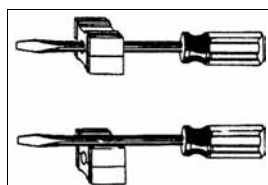
KL-0126-221

Magnetic Valve Collet Lifter (flexible)

With this flexible mini magnetic lifter, metallic objects can be removed even from the smallest crack. The **KL-0126-221** magnetic lifter is particularly suitable for lifting/removing valve collets.

Technical Data:

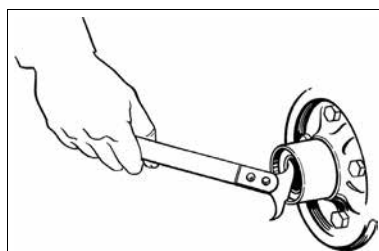
Length:	200mm
Weight:	6g
Magnet-Ø 3 mm power:	150g
Magnet-Ø 4 mm power:	270g



KL-0126-211

Magnetizing and Demagnetizing Block

Used to magnetize and demagnetize tools such as screwdrivers, blades and other small parts made of iron.



KL-0178-10

Seal Ring Puller

The **KL-0178-10** seal ring puller allows for the easy and trouble-free removal of oil or grease seals on engines, gearboxes and axles. Two size tips reach in and fit nearly all seal applications.

Technical Data:

Weight:	400g
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KL-0190-94

Pry Bar

This pry bar made of special steel is ideal for:

- Dismantling stubborn components.
- Positioning and holding components in position.
- Spreading clamping bores, etc.

Technical Data:

Length:	900mm
Blade width:	24mm



KL-0193-95

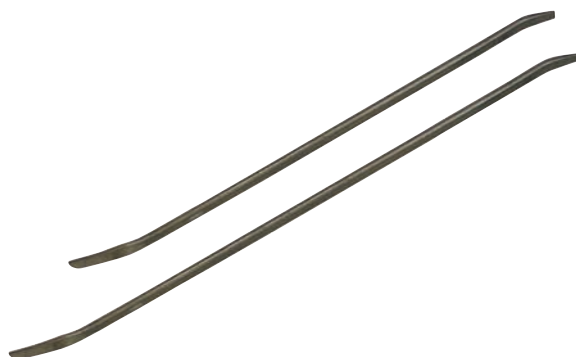
Pry Bar Set

These pry bars made of special steel are ideal for:

- Dismantling stubborn components.
- Positioning components.
- Holding components in position.
- Checking suspension ball joints and silentblobs.

Technical Data:

Length	Blade width 1 / 2	Weight
730mm	24/33mm	1,600g
900mm	24/33mm	1,900g



KL-4901-10 Combi Shears

High-performance blades of stainless steel for perfect cuts along the whole length of the blade. One serrated blade for cable-cutting.
Convenient impact-resistant plastic handles with sprung self-opening action.

Technical Data:

Blade Length:	40mm
Overall Length:	180mm



KL-0181-1 Stud Tool, 3/8"

(Universal)

Universal tool, infinitely adjustable.

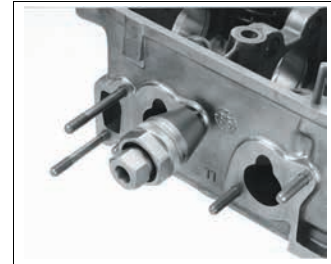
Designed to screw in and unscrew studs with diameter of 6-12mm.

Advantages:

- Infinitely adjustable.
- Suitable for use in very limited space conditions.
- Also suitable for screws with rusted or stripped threads.
- Also suitable for screws with undersize.

Technical Data:

Drive:	3/8"
Clamping range:	6-12mm
Weight:	450g



KL-0140-40 Frame Micrometer, 0-25mm

Features a clamp ring and ratchet stop. The adjustable concealed spindle is hardened and ground. Comes with heat-insulating pads. Measuring range of from 0-25mm; surfaces chrome-plated.

Technical Data:

Measuring range:	0-25mm
Graduation:	0.5mm
Weight:	350g



KL-0140-41 Frame Micrometer, 25-50mm

Features a clamp ring and ratchet stop. The adjustable concealed spindle is hardened and ground. Comes with heat-insulating pads. Measuring range of from 25-50mm; surfaces chrome-plated.

Technical Data:

Measuring range:	25-50mm
Graduation:	0.5mm
Weight:	500g



KL-0128-1 Dial Gauge, Ø 58mm

Spindle and clamping shank made of stainless steel, design and measurement accuracy according to DIN 878-A.

Technical Data:

Graduation:	0.01mm
Measuring Range:	10mm
Housing -Ø:	58mm
1 pointer revolution:	1mm
Clamping shank Ø:	8mm





KL-0128-0

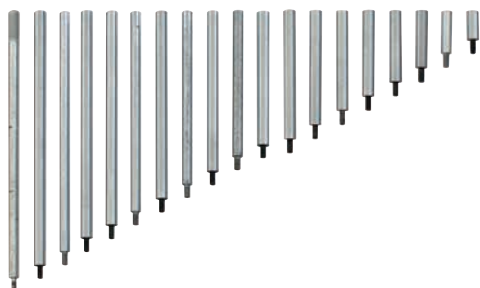
Dial Gauge, Ø 40mm

Description: Spindle and clamping shank made of stainless steel, design and measurement accuracy according to DIN 878-E.

The dial gauge is additionally equipped with a 10mm extension (**KL-0128-03**).

Technical Data:

Graduation:	0.01mm
Measuring Range:	5mm
Housing-Ø:	40mm
1 pointer revolution:	0.5mm
Clamping shank Ø:	8 h 6



KL-0128-25

Extension Set

For dial gauge **KL-0128-0** & **KL-0128-1**. The set consist of extensions **KL-0128-03** to **KL-0128-21**. Each extension with Ø 4mm.

Part No.	Description
KL-0128-03	10mm
KL-0128-04	15mm
KL-0128-05	20mm
KL-0128-06	25mm
KL-0128-07	30mm
KL-0128-08	35mm
KL-0128-09	40mm
KL-0128-10	45mm
KL-0128-11	50mm
KL-0128-12	55mm

Part No.	Description
KL-0128-13	60mm
KL-0128-14	65mm
KL-0128-15	70mm
KL-0128-16	75mm
KL-0128-17	80mm
KL-0128-18	85mm
KL-0128-19	90mm
KL-0128-20	95mm
KL-0128-21	100mm



KL-0128-02

Measuring Tip (flat)

For dial gauge **KL-0128-0** und **KL-0128-1** and extensions **KL-0128-03** to **KL-0128-21**.



KL-0140-50

Dial Bore Gauge Kit, Ø 50-178mm

A very useful tool kit for measuring diameters of cylindrical bores, especially suitable for use on petrol and Diesel engines. Comes with dial gauge and wooden case.

Technical Data:

Measuring range:	Ø 50-178mm
Measuring depth:	180mm

KL-0128-31

Dial Gauge Stand with Dial Gauge

Designed to measure the wobble of brake discs. Can also be used for fine-tuning when repairing engines and transmissions. Features: Sturdy measuring rods made of bright steel, fine adjustment of the dial gauge clamp, prismatic base with switchable magnet.

Scope of Delivery:

KL-0128-31 Dial Gauge Stand with Dial Gauge

Part No.	Description	Qty
KL-0128-1	Dial Gauge, Ø 58mm	1
KL-0128-3	Dial Gauge Stand without Dial Gauge	1



KL-0140-32

Vernier Calliper for Brake Drums

Measuring surfaces made of hardened stainless steel, scale and slide manufactured from aluminum profile. Open slide, fixing screw, vernier with parallax-free reading.

Technical Data:

Measuring range:	500mm
Jaw:	250mm
Vernier:	1/20mm
Weight:	1,200g



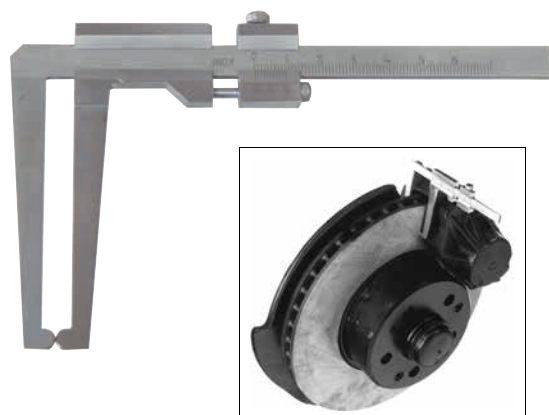
KL-0140-33

Vernier Calliper for Brake Disc

For measuring the thickness of brake discs in situ on the vehicle. The tool is hardened and features a locking screw. Rustproof, matt chrome-plated design.

Technical Data:

Measuring range:	50mm
Jaw:	75mm
Vernier:	1/10mm
Weight:	110g



KL-0140-38

Vernier Calliper for HGV Brake Discs

For measuring the thickness of brake discs in situ on the vehicle. The tool is hardened and features a locking screw. Rustproof, matt chrome-plated design.

Technical Data:

Measuring range:	100mm
Jaw:	120mm
Vernier:	1/10mm
Weight:	240g





KL-0140-76

Feeler Gauge (20 Blades)

Range: 0.05-1.00mm in 0.05mm increments.

Technical Data:

Blade-Length:	100mm
Weight:	100g



KL-0140-60

Precision Straightedge, 500mm

Suitable for cylinder heads with up to 4 cylinders.

Edges hardened, ground, lapped, with heat shield.

Technical Data:

Length:	500mm
Quality Description:	Stainless steel
Cross section:	40x7mm
Weight:	960g

Accessory:

KL-0140-6101 Wooden case for precision straightedge



KL-0140-61

Precision Straightedge, 600mm

Suitable for Cylinder Heads with up to 6 cylinders.

Edges hardened, ground, lapped, with heat shield.

Technical Data:

Length:	600mm
Quality Description:	Stainless steel
Cross section:	40x7mm
Weight:	1,200g

Accessory:

KL-0140-6101 Wooden case for Precision straightedge



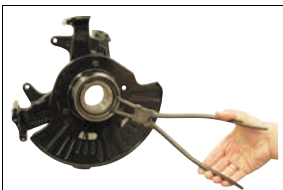
KL-0140-6101

Wooden Storage Case for Precision Straightedge

For storing the precision straight edge **KL-0140-60** or **KL-0140-61**.

Technical Data:

Length:	625mm
Weight:	400g



KL-0192-5

Circlip Pliers, Ø 40-100mm

Due to the 45° angled tips, this tool is ideal for inside circlips. Required for gearbox and wheel bearing repairs.

Technical Data:

Tip Ø:	2.5mm
Length:	220mm
Weight:	220g

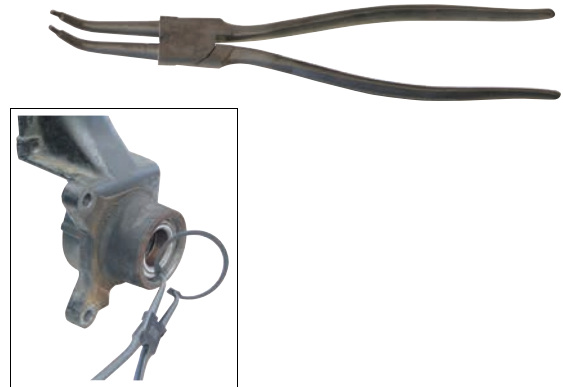
KL-0192-6

Circlip Pliers, Ø 85-165mm

The specially designed tips of the pliers (angled at 45°) allow for the trouble-free removal and installation of inner circlips when performing gearbox or wheel bearing repairs.

Technical Data:

Tip-Ø:	3mm
Length:	310mm
Weight:	410g



KL-0192-823

Pliers for Special Safety Rings

Suitable for large rings found on drive shafts in earth-movers, construction vehicles and agricultural vehicles.

Technical Data:

Length:	330mm
Tip form:	Inter-changeable, hook-shaped, wide, milled
Tip size [mm]:	3.5x8 spreading 8-75mm
Weight:	490g



KL-0192-824

Pliers for Special Safety Rings

Suitable for large rings on drive shafts and articulated axles, e.g. Opel/Vauxhall, VW-Audi.

Technical Data:

Length:	210mm
Tip-Form:	straight, pointed, short, milled
Tip size [mm]:	1.6x3.3 spreading 3.5-26mm
Weight:	190g



KL-0192-825

Circlip Pliers

Suitable for VW-Audi, Mercedes, Opel/Vauxhall, BMW, Ford, etc.

Field of application:

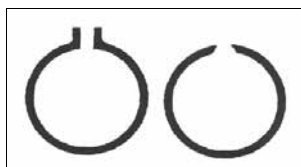
Deep-seated, large clips on gear shafts and articulated axles.

Ideal for drive shafts/cv-joints, engines and gearboxes.

Technical Data:

Length:	240mm
Tip-Form:	straight, centering spigot, long, slim
Min. opening:	5mm
Max opening:	40mm
Weight:	210g





KL-0192-826 A

Circlip Pliers

Suitable for VW-Audi, Mercedes, Opel/Vauxhall, BMW, Ford, etc.

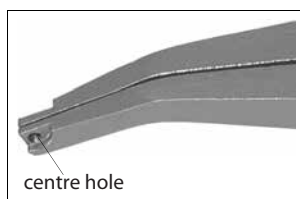
Field of application:

Large clips on gear shafts and articulated axles.

Ideal for drive shafts/cv-joints, engines and gearboxes.

Technical Data:

Length:	225mm
Tip form:	straight with retaining profile
Min. opening:	6.5mm
Max. opening:	35mm
Weight:	205g



KL-0192-12

Circlip Pliers (angled)

Suitable for VW-Audi, Mercedes, Opel/Vauxhall, BMW, Ford, etc.

Field of Application:

Specially designed for deep-seated, large clips on gear shafts and articulated axles that are hard to access.

Ideal for use on drive shafts/cv joints, engines and gearboxes.

Technical Data:

Length:	200mm
Tip form:	30° angled, centring spigot, long, slim
Min. opening:	3mm
Max. opening:	35mm
Weight:	190g



KL-0192-7

Circlip Pliers (angled 90°)

For brake callipers and gearboxes, angled 90°.

Technical Data:

Length:	190mm
Leg length:	60mm

KL-0192-24

Snipe Nose Pliers (long design)

With extra long grip, straight tips for mounting position that are hard to access.

Technical Data:

Length:	280mm
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KL-0192-25

Snipe Nose Pliers (long design) 45°

With extra long grip, tips angled 45°, for mounting position that are hard to access.

Technical Data:

Length:	280mm
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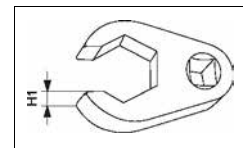
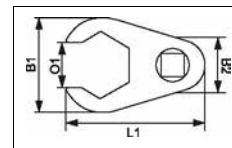
KL-4076-301

Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if these are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

Scope of Delivery: KL-4076-301 Crowfoot Wrench Set

Part No.	Size (waf)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Opening [O1]	Drive
KL-4076-3017	17mm	49mm	10mm	35mm	27mm	13mm	3/8"
KL-4076-3018	18mm	49mm	10mm	35mm	27mm	14mm	3/8"
KL-4076-3019	19mm	49mm	10mm	36mm	27mm	15mm	3/8"
KL-4076-3022	22mm	57mm	12mm	40mm	32mm	17mm	1/2"
KL-4076-3024	24mm	60mm	12mm	43mm	33mm	19mm	1/2"



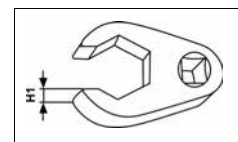
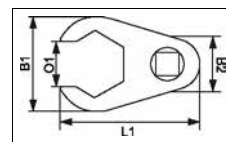
KL-4076-302

Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if they are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

Scope of Delivery: KL-4076-302 Crowfoot Wrench Set

Part No.	Size (waf)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Opening [O1]	Drive
KL-4076-3027	27mm	62mm	12mm	48mm	34mm	23mm	1/2"
KL-4076-3030	30mm	68mm	12mm	52mm	37mm	24mm	1/2"
KL-4076-3032	32mm	72mm	13mm	56mm	39mm	26mm	1/2"



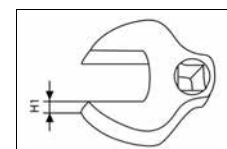
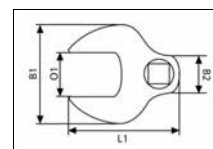
KL-4076-401

Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if they are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

Scope of Delivery: KL-4076-401 Crowfoot Wrench Set

Part No.	Size (waf) [O1]	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Weight	Drive
KL-4076-3036	36mm	81mm	12mm	75mm	29mm	280g	1/2"
KL-4076-3041	41mm	89mm	13mm	88mm	30mm	380g	1/2"
KL-4076-3046	46mm	91mm	13mm	92mm	32mm	400g	1/2"



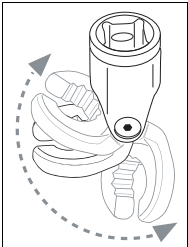
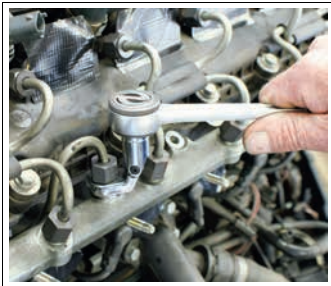
Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm





KL-4075-321 K

Flexible Crowfoot Socket Wrench Set

Universally suitable for screwed pipe connections, for example, on brake systems, injection systems etc.

These tools are required for the loosening and tightening of screwed pipe connections. Thanks to the special design of the wrenches, even screw connections that are difficult to access can be reached quickly and without any trouble.

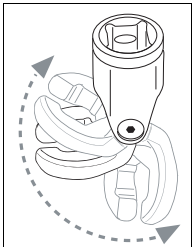
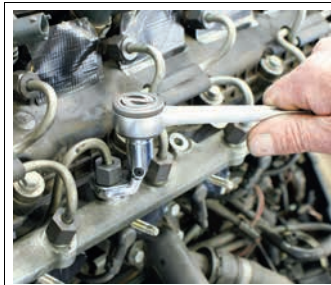
Technical Data:

Profile:	Double Hex
Drive:	3/8"

Scope of Delivery:

KL-4075-321 K Flexible Crowfoot Socket Wrench Set

Part No.	Description	Qty
KL-4075-3214	Flexible Crowfoot Socket Wrench, Size (waf) 14mm, bi-hex, 3/8"	1
KL-4075-3216	Flexible Crowfoot Socket Wrench, Size (waf) 16mm, bi-hex, 3/8"	1
KL-4075-3217	Flexible Crowfoot Socket Wrench, Size (waf) 17mm, bi-hex, 3/8"	1
KL-4075-3218	Flexible Crowfoot Socket Wrench, Size (waf) 18mm, bi-hex, 3/8"	1
KL-4075-3219	Flexible Crowfoot Socket Wrench, Size (waf) 19mm, bi-hex, 3/8"	1
KL-4074-3190	Plastic Storage Case	1



KL-4074-311 KA

Flexible Crowfoot Socket Wrench Set

Universally suitable for screwed pipe connections, for example, on brake systems, injection systems etc.

These tools are required for the loosening and tightening of screwed pipe connections. Thanks to the special design of the wrenches, even screw connections that are difficult to access can be reached quickly and without any trouble.

Technical Data:

Profile:	Hex
Drive:	3/8"

Scope of Delivery:

KL-4074-311 KA Flexible Crowfoot Socket Wrench Set

Part No.	Description	Qty
KL-4074-3111	Flexible Crowfoot Socket Wrench, Size (waf) 11mm, hex, 3/8"	1
KL-4074-3112	Flexible Crowfoot Socket Wrench, Size (waf) 12mm, hex, 3/8"	1
KL-4074-3114	Flexible Crowfoot Socket Wrench, Size (waf) 14mm, hex, 3/8"	1
KL-4074-3116	Flexible Crowfoot Socket Wrench, Size (waf) 16mm, hex, 3/8"	1
KL-4074-3117	Flexible Crowfoot Socket Wrench, Size (waf) 17mm, hex, 3/8"	1
KL-4074-3118	Flexible Crowfoot Socket Wrench, Size (waf) 18mm, hex, 3/8"	1
KL-4074-3119	Flexible Crowfoot Socket Wrench, Size (waf) 19mm, hex, 3/8"	1
KL-4074-3190	Plastic Storage Case	1

KL-4004-112

Bit Ratchet (straight 1/4" and 5/16" with retaining magnet)

Reversible for left or right-hand rotation. With drives for 5/16" and 1/4" Bit Inserts. Each Bit drive has a knurled thumb-wheel for easy tightening of bolts before final tightening. The Bit Inserts are retained in the drive by a built-in magnet. Especially useful for areas that are difficult to access.

Technical Data:

Weight:	120g
Length:	140mm
Bit- Drive:	1/4"
Bit- Drive:	5/16"



KL-4004-120

Flexible Bit Holder, 1/4", with Flexible Extension

Especially useful for areas that are difficult to access.

Technical Data:

Length of Screw Driver:	375mm
Length of Extension:	135mm
Bit Drive:	1/4"
Weight:	250g



KL-4064-602 K

Set of Screwdriver Bit Sockets (5-Point Star), with Ratchet in a Storage Case

For example, suitable for:

- Plug-in pumps in pump-line-nozzle injection systems on Mercedes HGV (e.g. Atego, Actros)
- Outside mirror, Mercedes
- Mass air flow sensor as found on VW-Audi, Opel/Vauxhall etc.
- Immobiliser control unit (EWS3) on Rover 75 and MG ZT
- Door lock fastening screws on Ford Fusion

For loosening and tightening 5-point star safety bolts with bore.

Screwdriver Bit Inserts (9 pieces):

Drive 1/4" hex; size 10, 15, 20, 25, 27, 30, 40, 45, 50

Reversible Bit Ratchet:

hex 1/4"; fine toothed, left-/right reversible

Plastic Storage Case

Technical Data:

Size:	10, 15, 20, 25, 27, 30, 40, 45, 50mm
Drive (Bit insert):	hex 1/4"
Drive (Bit holder):	hex 1/4"
Length (Bit insert):	25mm
Length (ratchet):	94mm
Overall height (ratchet), incl. bit:	28mm
Overall weight:	140g



KL-4031-3512

Screwdriver Bit Socket XZN-M12, 78mm, drive 1/2"

For loosening and tightening XZN M12 fastening screws.

The ideal tool for the wheel bearing fastening screws found on VW Golf VI etc.

Reinforced design, however, not suitable for use with impact wrenches.



1/2"

Technical Data:

Size:	XZN M12
Drive:	1/2"
Length:	78mm

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm





Technical Data:

Size:	XZN M14
Drive::	1/2"
Lenght:	78mm

KL-4031-3514
Screwdriver Bit Socket, XZN-M14,
78mm, 1/2"

Suitable for the clamping bolts that are found on shock absorber mounts at front axle steering knuckles on Audi A3 (8P); VW Passat (3C) and Golf V (1K); also for brake caliper mounting bolts on VW Touran and Passat (3C), Audi A3, Seat Altea, as well as for bolts on lower suspension ball joint connections on VW T4, T5.

Designed to be used for loosening and tightening XZN M14 fastening bolts.

Reinforced version; however, the socket is not suitable for use with an impact wrench.



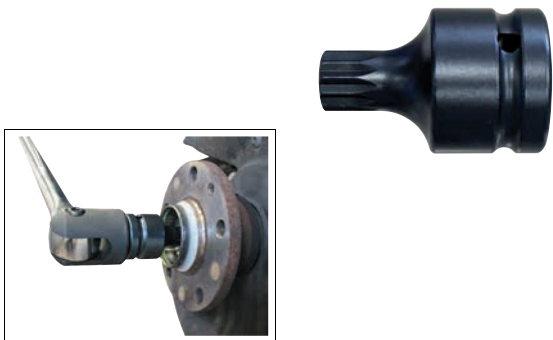
KL-4031-3518
Screwdriver Bit Socket, XZN-M18,
78mm, drive 1/2"

Suitable e.g. for Audi A3, VW Polo, Golf V etc.

This tool is designed to loosen and tighten rear axle wheel hub bearing unit fastening screws.

Technical Data:

Drive:	1/2"
Size:	XZN-M18
Length:	78mm



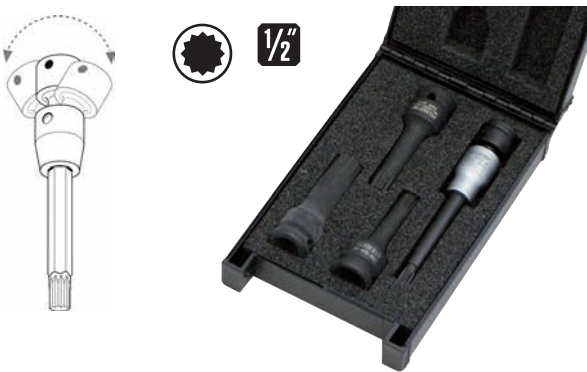
KL-4031-4118
Screwdriver Bit Socket, XZN-M18, 3/4"

Suitable for the wheel bearing central screws found at the rear axle on VW Golf V, Audi A3, Seat Altea etc.

The **KL-4031-4118** Screwdriver Bit Socket (XZN-M18, 3/4") is used with a 3/4" breaker bar such as the **KL-4007-411** for the loosening, and in conjunction with a 3/4" torque wrench for the tightening, of the wheel bearing central screw at the rear axle.

Technical Data:

Drive:	3/4"
Size (waf):	XZN-M18
Maximum load capacity:	800Nm



KL-4031-351 K
Screwdriver Bit Socket Kit

Universal application. The ideal kit for VW-Audi, Seat, Škoda vehicles, e.g. Audi A3 (8P), VW Polo (6N), Golf IV (1J), Golf V (1K), Passat (3C), Touran (1T), T4; T5, Seat Altea (5P) etc.

For loosening and tightening XZN fastening screws, for example those on brake calipers, wheel bearings, wheel-hub bearing units, suspension ball joints, drive shafts. Also suitable for shock absorber mount clamping screws on steering knuckles etc.

Scope of Delivery: **KL-4031-351 K** Screwdriver Bit Socket Kit

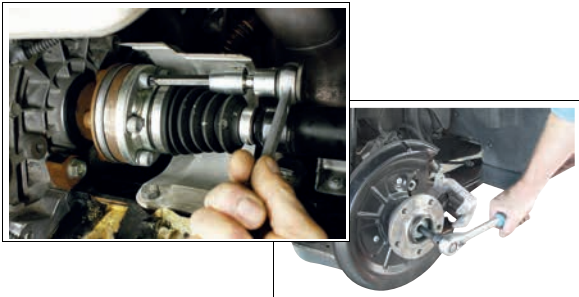
Part No.	Description	Qty
KL-4031-3512	Screwdriver Bit Socket, XZN-M12, 78mm, 1/2"	1
KL-4031-3514	Screwdriver Bit Socket, XZN-M14, 78mm, 1/2"	1
KL-4031-3518	Screwdriver Bit Socket, XZN-M18, 78mm, 1/2"	1
KL-0232-8	Flexible Multi-Tooth Socket, XZN M10	1
KL-4031-3590	Plastic Storage Case	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet

DMK 200 CODE:2641240

Torque Wrench Dremaster 40-200Nm



KL-0232-..

Multi-Spline Socket, XZN, 800mm

These special sockets enable drive shaft fixing screws to be loosened from the differential flange quickly and easily from the outside.
Not intended for use with impact wrenches.

Advantage:

- Substantial time savings.

KL-0232-1

Multi-Spline Socket, XZN M8, 800mm

Suitable for VW-Audi, etc.

Technical Data:

Size (waf):	XZN M8
Drive:	1/2"
Length:	800mm

KL-0232-2

Multi-Spline Socket, XZN M10, 800mm

Suitable for VW Golf IV etc.

Technical Data:

Size (waf):	XZN M10
Drive:	1/2"
Length:	800mm

KL-0232-3

Multi-Spline Socket, XZN M12, 800mm

Suitable for VW T4, Touareg etc.

Technical Data:

Size (waf):	XZN M12
Drive:	1/2"
Length:	800mm

KL-0232-4

Multi-Spline Socket, XZN M14, 800 mm

Suitable for VW T4, Touareg etc.

Technical Data:

Size (waf):	XZN M14
Length:	800mm
Drive:	1/2"

KL-0231-2

Multi-Spline Socket, XZN, M16

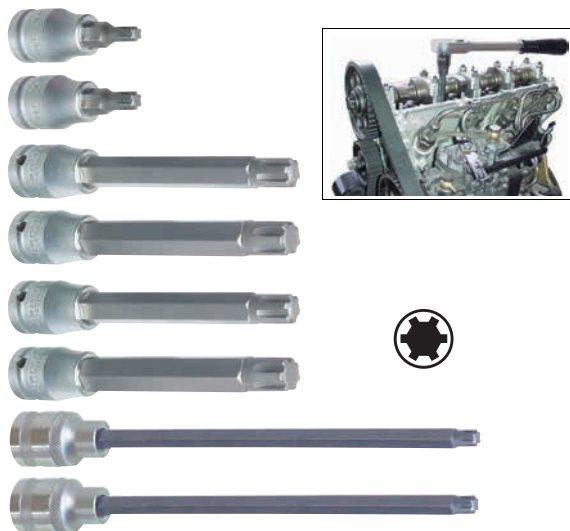
Suitable for Audi A3, A4, A6; VW Fox, Golf (IV), LT.

This special socket features an inner bore and is therefore the ideal tool for oil drain plugs and oil control plugs on gearboxes.

Technical Data:

Drive:	1/2"
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KL-4051-331 B

Screwdriver Bit Socket Set RIBE®, 1/2", 8-piece

Suitable for FIAT engines with RIBE® screws.

For loosening and tightening RIBE® screws on cylinder head valve drive housings etc.

Technical Data:

Drive:	1/2"
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Scope of Delivery: KL-4051-331 B Screwdriver Bit Socket Set RIBE®, 1/2", 8-piece

Part No.	Description	Qty
KL-4051-3007	Screwdriver Bit Socket RIBE® M7, 55mm, 1/2"	1
KL-4051-3008	Screwdriver Bit Socket RIBE® M8, 55mm, 1/2"	1
KL-4051-3311	Screwdriver Bit Socket RIBE® M10, 140mm, 1/2"	1
KL-4051-3312	Screwdriver Bit Socket RIBE® M12, 140mm, 1/2"	1
KL-4051-3313	Screwdriver Bit Socket RIBE® M13, 140mm, 1/2"	1
KL-4051-3314	Screwdriver Bit Socket RIBE® M14, 140mm, 1/2"	1
KL-4051-3406	Screwdriver Bit Socket RIBE® M6, 200mm, 1/2"	1
KL-4051-3408	Screwdriver Bit Socket RIBE® M8, 200mm, 1/2"	1

* = registered trademark of Richard Bergner GmbH & Co. KG



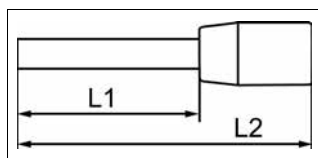
KL-4051-3310

Screwdriver Bit Socket, RIBE® M10

Ideal to remove and re-tighten cylinder head retaining bolts on **VW-Audi engines** with RIBE® similar profile.

Technical Data:

Drive:	1/2"
Length:	140mm
Weight:	100g



KL-4045-3380

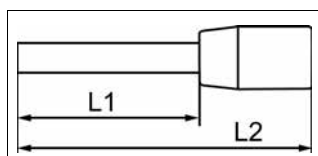
Screwdriver Bit Socket Torx® T80

Manufactured from Chrome Vanadium Steel.

Technical Data:

Torx®:	T80
Drive:	1/2"
L1:	100mm
L1:	140mm
Weight:	250g

* = reg. trademark of Acument Intellectual Properties, LLC. USA



KL-4045-3390

Screwdriver Bit Socket Torx® T90

Manufactured from Chrome Vanadium Steel.

Technical Data:

Torx®:	T90
Drive:	1/2"
L1:	100mm
L2:	140mm
Weight:	270g

* = reg. trademark of Acument Intellectual Properties, LLC. USA

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet

DMK 200 CODE:2641240 - Torque Wrench Dremaster 40-200Nm



KL-4045-3391

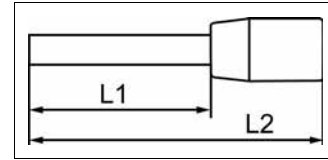
Screwdriver Bit Socket Torx® T100

Manufactured from Chrome Vanadium Steel.

Technical Data:

Torx®:	T100
Drive:	1/2"
L1:	100mm
L2:	140mm
Weight:	300g

* = reg. trademark of Acument Intellectual Properties, LLC. USA



KL-4046-362

Socket Set, Torx® E10 / E12 / E14 / E18, long, 1/2"

Applicable to BMW, Mercedes CDI engines, etc.

These Torx® Sockets in extended length with a built-in magnet enable the loosening and tightening of cheese-head screws with external Torx® profiles.

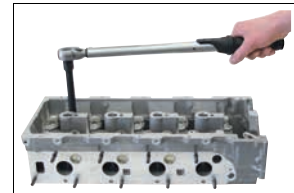
Scope of Delivery: KL-4046-362 Socket Set, Torx® E10 / E12 / E14 / E18, long, 1/2"

Part No.	Torx®	Drive	Length	Weight
KL-4046-3610	E10	1/2"	150mm	200g
KL-4046-3612	E12	1/2"	150mm	225g
KL-4046-3614	E14	1/2"	150mm	250g
KL-4046-3618	E18	1/2"	150mm	415g

* = registered trademark of Acument Intellectual Properties, LLC. USA



1/2"



KL-0380-7101

External Hexalobular Socket, E14

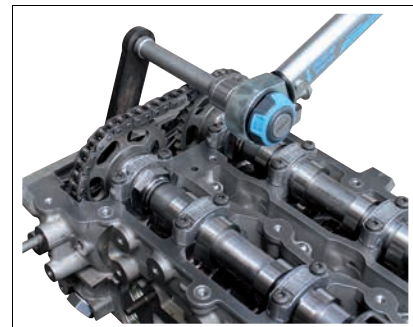
Suitable for use on Mercedes vehicles with a 2.1 litre, as well as Jeep vehicles with a 2.2 litre (OM651) Common Rail Diesel engine.

Engines fitted to, e.g.: Mercedes C-Class (W204), E-Class (W207, W212), GLK (X204), CLS (W218) and Sprinter (W906), as well as Jeep Compass (MK) etc.

(Engine codes: OM 651, 651.911, 651.912, 651.913, 651.916, 651.924, 651.925, 651.955, 651.956, 651.957, 651.961)

For the professional loosening/tightening of fastening screws (with Torx E 14 profile) found at camshaft sprockets.

Indispensable when changing a timing chain or performing engine repairs.



KL-4022-241

Screwdriver Bit Socket "Ball Head"

Extra-long design with ball head.

Ideal for loosening and tightening hex socket screws that sit very deep or are hard to access; e.g. on the oil pan, cylinder head, engine, drive, etc.

Application examples:

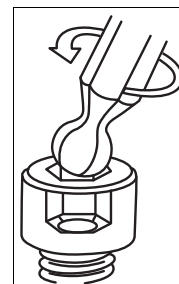
- KL-4022-2405 For oil sump bolts in VW T4 5-cylinder engines.
- KL-4022-2408 Removal and installation of knock sensor on Audi V6 engines.

Technical Data:

Drive:	1/2"
Length:	288mm

Scope of Delivery: KL-4022-241 Screwdriver Bit Socket "Ball head"

Part No.	Description	Qty
KL-4022-2405	Screwdriver Bit Socket "Ball Head", Size (waf) 5mm	1
KL-4022-2406	Screwdriver Bit Socket "Ball Head", Size (waf) 6mm	1
KL-4022-2408	Screwdriver Bit Socket "Ball Head", Size (waf) 8mm	1
KL-4022-2410	Screwdriver Bit Socket "Ball Head", Size (waf) 10mm	1





KL-0100-6
Extension (Length 600mm)

This tool is essential when performing work at the gearbox, engine and exhaust system.

Technical Data:

Drive:	1/2" to 3/8"
Length:	600mm

1/2"

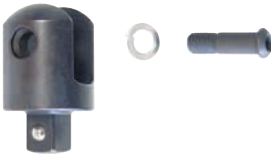


KL-4007-311
Swivel Head Breaker Bar, 1/2", Length 620mm

Ultra-long design, with 180° swivel head.
Ideal for loosening very tight/stuck screws.

Technical Data:

Overall length:	620mm
Drive:	1/2"
Max. load capacity:	512Nm



KL-4007-3112
Swivel Head

Spare part for breaker bar **KL-4007-311**.

3/4"



KL-4007-411
Swivel Head Breaker Bar, 3/4", 980mm

Extra long design (980mm), with 180° swivel head.
Ideal for loosening extremely tight/stuck screws.

Technical Data:

Drive:	3/4"
Overall length:	980mm



KL-4999-120

Workshop Trolley/Workbench (without tools)

The sturdy workshop trolley/workbench **KL-4999-120** is designed to be used in conjunction with the stationary spring compressor **KL-5501** as well as with the wheel bearing/silentbloc tools of the **KL-0039-Series**, thus providing you with a professional and mobile workplace for accurate and quick chassis or axle repairs.

The large Multiplex worktop made from solid beech offers the ideal work surface. The convenient push handle and the smooth-running castors (125mm), two of them are steering castors with brakes, ensure the easy and mobile use of the trolley. The 4 drawers feature an individual locking mechanism as well as a central lock designed to prevent any unintentional opening of the drawers. Each drawer has a load capacity of up to 80kg. Thanks to the full-extension slides, the drawers can be pulled out completely, thus, allowing for proper storage, full visibility and easy access to the tools.

An ingenious "one-drawer-at-a-time" interlock mechanism prevents the opening of several drawers at the same time and, as a result, the trolley from tilting/tipping over.

The unique GEDORE Automotive Modular System allows you to customize each of the drawers with the foam inserts of the **KL-4999-131...-Series** and all the necessary tool sets to meet exactly your requirements. This provides you with the possibility of creating your own "Mobile Modular Workstation" - tailor-made and always perfectly adapted to your specific needs, thus helping you to significantly improve the productivity of your workshop.

The foam inserts of the **KL-4999-131...-Series** are designed to keep your GEDORE Automotive tools always properly organised and well protected. This ingenious tool storage system from GEDORE Automotive allows you to find the tool you need quickly and easily, and to identify missing tools at a glance. As a result, repairs can be carried out more efficiently - saving you time and money. The foam inserts are provided with specifically tool-shaped spaces to ensure that tools are safely stored and can be taken out and put back in place with ease.



Technical Data:

Dimensions:	W 1,200 x H 900 x D 600mm
Worktop:	W 1,200 x H 25 x D 600mm
Drawer (1x):	W 1,000 x H 100mm
Inner dimensions of drawer:	W 1,000 x H 95 x D 445mm
Drawer (2x):	W 1,000 x H 150mm
Inner dimensions of drawer:	W 1,000 x H 140 x D 445mm
Drawer (1x):	W 1,000 x H 200mm
Inner dimensions of drawer:	W 1,000 x H 190 x D 445mm
Steering castor with brake (2x):	Ø 125mm
Fixed castor (2x):	Ø 125mm
Weight:	125kg

KL-4999-121

Workshop Trolley/Workbench (without tools)

The sturdy workshop trolley/workbench - **KL-4999-121** in conjunction with, for example, our universal glow plug tool set, injector nozzle puller set, counter-hold tool kit and the 17t hydraulic cylinder (short design with pull spindles) provides you with a highly functional and mobile workplace allowing for professional and cost-effective maintenance work and repairs to engines.

The large Multiplex worktop made from solid beech offers the ideal work surface. The convenient push handle and the smooth-running castors (125mm), two of them are steering castors with brakes, ensure the easy and mobile use of the trolley. The 5 drawers feature an individual locking mechanism as well as a central lock designed to prevent any unintentional opening of the drawers. Each drawer has a load capacity of up to 80kg. Thanks to the full-extension slides, the drawers can be pulled out completely, thus, allowing for proper storage, full visibility and easy access to the tools.

An ingenious "one-drawer-at-a-time" interlock mechanism prevents the opening of several drawers at the same time and, as a result, the trolley from tilting/tipping over.

The unique GEDORE Automotive Modular System allows you to customize the drawers with foam inserts and tool sets according to your specific needs. This makes the workshop trolley/workbench the ideal equipment for a perfectly organised and mobile workplace - helping you to significantly improve the productivity of your workshop.

The special foam inserts are designed to keep your GEDORE Automotive tools always properly organised and well protected. This ingenious tool storage system from GEDORE Automotive allows you to find the tool you need quickly and easily, and to identify missing tools at a glance. As a result, repairs can be carried out more efficiently - saving you time and money. The foam inserts are provided with specifically tool-shaped spaces to ensure that tools are safely stored and can be taken out and put back in place with ease.



Technical Data:

Dimension:	W 1,200 x H 900 x D 600mm
Worktop:	W 1,200 x H 25 x D 600mm
Drawer (4x):	W 1,000 x H 100mm
Inner dimension of drawer:	W 1,000 x H 95 x D 445mm
Drawer (1x):	W 1,000 x H 200mm
Inner dimension of drawer:	W 1,000 x H 190 x D 445mm
Steering castor with brake (2x):	Ø 125mm
Fixed castor (2x):	Ø 125mm
Weight:	125kg

KL-4999-1202



KL-4999-1203



KL-4999-12..

Drawer Divider, (with Rivets)

Designed to divide the drawers of the workshop trolley **KL-4999-120**.

KL-4999-1202

Drawer Divider, 100mm (with Rivets)

KL-4999-1203

Drawer Divider, 60mm (with Rivets)

KL-4999-13..

Drawer Bottom Insert

KL-4999-1326

Drawer Bottom Insert, 133mm

KL-4999-1327

Drawer Bottom Insert, 305mm

KL-4999-1328

Drawer Bottom Insert, 478mm

KL-4999-1329

Drawer Bottom Insert, 651mm



KL-4990-1003

Plastic Storage Case

Universal Plastic Storage Case with Foam Paddings.

The robust stackable plastic storage case comes with a convenient carry handle and is designed to ensure safe transportation and storage of your tools.

The case features "egg-crate" interior foam paddings both in the lid and the bottom to provide optimum protection for the contents.

KL-4990-1003



KL-4990-1007



KL-4990-1018



KL-4990-1003 Plastic Storage Case

Dimensions:

Outer:	255x210x60mm (WxHxD)
Inner:	244x161x54mm (WxHxD)

KL-4990-1007 Plastic Storage Case

Dimensions:

Outer:	340x275x83mm (WxHxD)
Inner:	326x222x77mm (WxHxD)

KL-4990-1018 Plastic Storage Case

Dimensions:

Outer:	450x360x123mm (WxHxD)
Inner:	437x295x116mm (WxHxD)

KL-4990-11.. Plastic Storage Case

Universal Plastic Storage Case with Foam Insert.

The robust stackable plastic storage case comes with a convenient carry handle and is designed to ensure safe transportation and storage of your tools.

The case features foam inserts both in the lid and the bottom to provide optimum protection for the contents.

The transparent plastic boxes of the **KL-4990-20.. Series** allow you to store small items and tools neatly arranged in the storage case.

KL-4990-1103 Plastic Storage Case

Dimensions:

Outer:	255x210x60mm
Inner:	244x161x54mm

KL-4990-1107 Plastic Storage Case

Dimensions:

Outer:	340x275x83mm
Inner:	326x222x77mm

KL-4990-1118 Plastic Storage Case

Dimensions:

Outer:	450x360x123mm
Inner:	437x295x116mm

KL-4990-1103



KL-4990-1107



KL-4990-1118



KL-4990-2001 Plastic Storage Box

The transparent plastic box is universally suitable and fits perfectly the plastic storage cases of the **KL-4990-10..** and **KL-4990-11.. Series**.

This very useful plastic box allows you to store small items and tools neatly arranged in the storage case.

Transparent design for easy identification of the contents without having to open the box.

KL-4990-2001 Plastic Storage Box

Dimensions:

Inner:	107x53x18mm
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KL-4990-2002 Plastic Storage Box

Dimensions:

Inner:	107x53x40mm
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KL-4990-2003 Plastic Storage Box

Dimension:

Inner:	138x82x27mm
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KL-4990-2004 Plastic Storage Box

Dimension:

Inner:	138x82x40mm
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KL-4990-2001



KL-4990-2002



KL-4990-2003



KL-4990-2004



The Mobile Modular Tool Storage System „MODULO“

The modular Tool Storage System “MODULO” provides the user with the possibility to create a versatile and mobile workplace that meets exactly their own particular needs. The workstations can be individually equipped with all the necessary “MODULO” tool kits for fast, organised and cost-effective repairs/maintenance work in the areas of:

- Engine timing/valve train, replacement of timing belts/timing chains.
- Wheel bearings, suspension ball joints, bushings.
- Changing coil springs/shock absorbers.
- Passenger car petrol- and Diesel engines.
- HGVs and light commercial vehicles.

Possible equipment for ‘Engine Timing/ Valve Train’ applications

The “MODULO” workshop trolley/workbench with its large, solid Multiplex worktop provides the user with the ideal work surface suitable for a variety of jobs; for example, by allowing for the convenient mounting of the **KL-5501** stationary spring compressor. The lateral push handle and the smooth-running castors (125mm) - two of them are steering castors with double brakes – ensure easy and mobile use of the trolley. The “MODULO” is available in various designs, with either 4 or 5 drawers all featuring an individual locking mechanism as well as a central lock designed to prevent any unintentional opening of the drawers. Each drawer has a load capacity of up to 80kg and can be pulled out completely thanks to full-extension slides. The “one-drawer-at-a-time” interlock mechanism prevents the opening of several drawers at the same time and, as a result, the trolley from tilting/tipping over. The foam inserts of the **KL-4999-.. Series** are designed to keep your GEDORE Automotive tools always properly organised and well protected. This ingenious tool storage system from GEDORE Automotive allows you to find the tool you need quickly and easily, and to identify missing tools at a glance. As a result, repairs can be carried out more efficiently - saving you time and money. The foam inserts are provided with specifically tool-shaped spaces to ensure that tools are safely stored and can be taken out and put back in place with ease.





Counter-Holding Tool Kit
KL-0184-011 E



Locking Tool Set
KL-1380-102 E
PSA



Locking Tool Set
KL-1682-27 E
Fiat



Locking Tool Set
KL-0180-107 E
universal



Locking Tool Set
KL-0280-64 E
VW



Locking Tool Set
KL-0280-65 E
VW



Locking Tool Set
KL-0580-713 E
BMW



Locking Tool Set
KL-0580-755 E
BMW



Locking Tool Set
KL-0580-756 E
BMW



Locking Tool Set
KL-0482-49 E
Opel/Vauxhall



Locking Tool Set
KL-0680-29 E
Ford

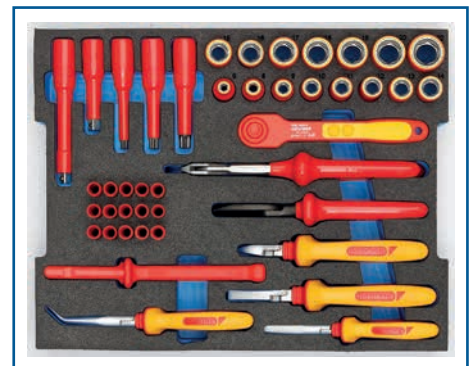


Locking Tool Set
KL-1280-102 E
Renault

VDE-Tool Assortment

1100-1094 Code 2979063 - VDE-Assortment Hybrid 53 pieces

- The perfect range of tools for repairs and maintenance of hybrid and electric vehicles.
- For vehicles of all the manufacturers.
- All tools insulated on the basis of EN 60900/EC 60900.
- GEDORE L-BOXX® 136 compatible with the Sortimo® vehicle interior fittings in your service mobile.



Contents:

VDE 30 6 8 9 10 11 12 13 14 15 16 17 18 19 20 22
 VDE INX 30 8 10 12
 VDE 3090-3 -6
 VDE 3093 U
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 VDE 2160 PH 1 2 3
 VDE 2163 TX T20 T25 T30
 VDE 8094
 VDE 146 10
 VDE 8250-200 H
 VDE 8314-180 H
 VDE 8132 AB-200 H
 VDE 8



AUTOMOTIVE TOOLS

HVG Highlights

formerly **KLANN**



GEDORE
TOOLS FOR LIFE

KLANN has become GEDORE

Ingenious innovative.

We are one of the world's leading manufacturers of specialist automotive tools - **so far you have known us under the brand name KLANN, now we are GEDORE!**

Following the brand integration into the GEDORE Group, KLANN Spezial-Werkzeugbau GmbH has become GEDORE Automotive GmbH with effect from 1 January 2016. All premium brands and products of the GEDORE Group are now marketed under the renowned brand name GEDORE. In addition to the premium brand GEDORE, carolus continues to be GEDORE's second brand which stands for reliable professional tools in the mid-price segment. With this new brand strategy, GEDORE has positioned itself more clearly in the market as a one-stop provider of smart solutions with a wide, high-quality product range of more than 16,000 items.

What you can continue to expect from us: innovative and safe specialist tools, and hands-on training courses focusing on the correct use of our tools - for any type of vehicle!

formerly **KLANN**

KL-0165-3 KA (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor Set (with 6 Forks)

Universally suitable for HGV and light commercial vehicles/vans etc.

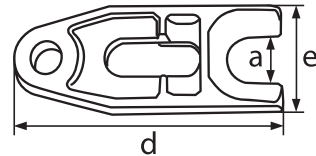
An indispensable tool set for the quick and easy separation of ball joint connections in axle/suspension and steering systems.

The ever-increasing number of different ball joints used in today's vehicle suspension and steering systems has led to the need for an ever-widening range of ball joint extractors for separating ball joint connections from steering knuckles/stub axles and steering arms.

This is mainly due to the different diameters and sizes of the ball joints. In addition, ball joints with conical pivot pins require extractors featuring extremely high stability and strength in order to achieve easy separation. When separating ball joint connections, it is decisive that the angle and the correct pressure point for the separation can be adjusted on the extractor.

With the ball joint extractor set **KL-0165-3 KA** (composed of base tool **KL-0165-300** and forks (e=80mm, d=200mm) **KL-0165-3001** a=30mm, **KL-0165-3101** a=34mm, **KL-0165-3201** a=40mm, **KL-0165-3301** a=42mm, **KL-0165-3401** a=47mm und **KL-0165-3501** a=30mm), GEDORE offers automotive service technicians and mechanics a tool with high stability and universal application possibilities. The extractor can easily be adjusted to the respective ball joint diameter and pivot pin height - simply by changing the forks.

The ball joint extractor set is supplied in a plastic storage case.



Scope of Delivery:

KL-0165-3 KA Ball Joint Extractor Set (with 6 Forks)

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3001	Fork a=30mm, e=80mm, d=200mm e.g. suitable for Landini Tractors	1
KL-0165-3101	Fork a=34mm, e=80mm, d=200mm	1
KL-0165-3201	Fork a=40mm, e=80mm, d=200mm e.g. suitable for Mercedes, MAN, Scania, Volvo, etc.	1
KL-0165-3301	Fork a=42mm, e=80mm, d=200mm e.g. suitable for Mercedes, MAN, Scania, Volvo, etc. and John Deere-Tractors	1
KL-0165-3401	Fork a=47mm, e=80mm, d=200mm	1
KL-0165-3501	Fork a=33mm, e=80mm, d=200mm e.g. suitable for suspension ball joints MB Sprinter (1995 onwards) and VW LT (1998 onwards), upper ball joint VW T4 etc.	1
KL-0165-3090 A	Plastic Storage Case	1

KL-0165-36 (Pat. e.g. US-Patent 5,906,034) Ball Joint Extractor, Size 3

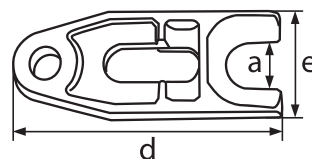
Suitable for the thrust rod on the reversing lever at the front axle of MAN Buses A21. (Fork opening a=40 mm)

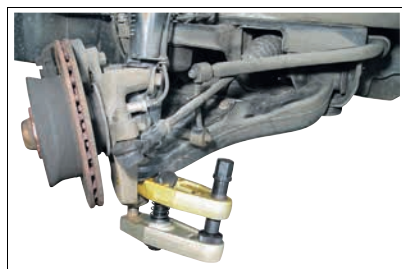
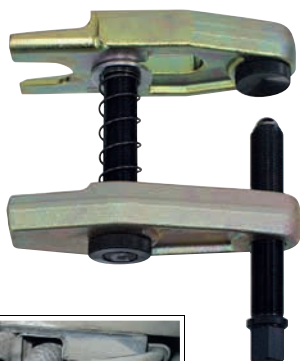
The ball joint extractor **KL-0165-36** (composed of **KL-0165-300** and **KL-0165-3601**) is the ideal tool for separating ball joint connections in axle/suspension and steering systems.

Scope of Delivery:

KL-0165-36 Ball Joint Extractor, Size 3, 40 mm

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3601	Fork - a=40mm - e=80mm - d=200mm	1





KL-0165-35

(Pat. e.g. US-Patent 5,906,034)

Ball Joint Extractor, Size 3

Suitable for the suspension ball joints found on Mercedes Sprinter (1995 onwards) and VW LT (1998 onwards); upper ball joints on VW T4, stabiliser ball joints on Mercedes Citaro EvoBus O 530 etc.
(Fork opening a=33mm)

The ball joint extractor **KL-0165-35** (composed of **KL-0165-300** and **KL-0165-3501**) is the ideal tool for separating ball joint connections in axle/suspension and steering systems.

Scope of Delivery:

KL-0165-35 Ball Joint Extractor, Size 3

Part No.	Description	Qty
KL-0165-300	Base Tool without Fork (Spindle M24x1.5)	1
KL-0165-3501	Fork - a=33mm - e=80mm - d=200mm	1



KL-1000-20

King Pin Press (65t), with Sleeve Set

This press enables king pins on lorries to be pressed in and pressed out quickly and without any trouble.

The hydraulic press can be used directly on the vehicle - thanks to its unique and compact design featuring an integrated hand pump, the hydraulic cylinder equipped with a quick pneumatic 'Extend / Retract' stroke valve, as well as the universally pre-adjustable press frame with an exchangeable bridge.

Advantages:

- Universal application, can be used in situ on the vehicle as well as in a free-standing position.
- Substantial time savings.
- Universally adjustable, 180° swivelling press frame.
- The three-axle quick adjustment mechanism allows for the quick and easy positioning of the tool on the vehicle.

Technical Data:

Press force capacity:	65t
Clearance between puller bolts:	275mm
Clearance height (max.):	480mm
Stroke:	120mm
Nominal pressure:	420bar
Air supply (max.):	13bar
Weight:	approx. 130kg
Oil filling volume:	approx. 3.5 Litres

Scope of Delivery:

KL-1000-20 King Pin Press (65t), with Sleeve Set

Part No.	Description	Qty
KL-1000-200	King Pin Press (65t), without Sleeve Set	1
KL-1000-230 A	Sleeve Set	1

KL-0100-632

Socket, Size (waf) 32mm, 400mm, 3/4"

Suitable for wheel nuts found on HGV/commercial vehicles.

Very useful tool for loosening and tightening wheel nuts on HGV/commercial vehicles.

Technical Data:

Size (waf):	32mm
Length:	400mm
Drive:	3/4"



KL-0100-633

Socket, Size (waf) 33mm, 400 mm, 3/4"

Suitable for wheel nuts found on HGV/commercial vehicles.

Very useful tool for loosening and tightening wheel nuts on HGV/commercial vehicles.

Technical Data:

Size (waf):	33mm
Length:	400mm
Drive:	3/4"



KL-4043-4132

Socket, EP32, 45mm

Suitable for screw-fitted connections (with Torx-Plus® Profile) on axle components at Mercedes HGVs/commercial vehicles. Can be found, for example, in Actros MP4 etc.

Designed for the professional loosening/tightening of screws having a Torx-Plus® Profile EP32, such as used on various axle parts in Mercedes HGVs/commercial vehicles

Technical Data:

Drive:	3/4"
Length:	45mm
Size (waf):	EP32



KL-4043-4232

Socket, EP32, 90mm

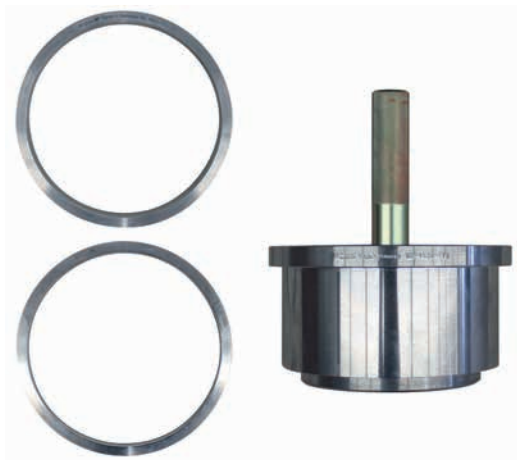
Suitable for screw-fitted connections (with Torx-Plus® Profile) on axle components at Mercedes HGVs/commercial vehicles. Can be found, for example, in Actros MP4 etc.

Designed for the professional loosening/tightening of screws having a Torx-Plus® Profile EP32, such as used on various axle parts in Mercedes HGVs/commercial vehicles.

Technical Data:

Drive:	3/4"
Length:	90mm
Size (waf):	EP32



**Note:**

The **KL-1025-1752 A** and **KL-1025-1753 A** rings are needed for the **746.21** and **748.59** rear axle series with double seal.

KL-1025-175

Shaft Seal Installation Tool, Ø 175mm

Applicable to Mercedes ACTROS and ATEGO rear axle shaft seals.

(e.g. ACTROS rear axle MB-No. - 746.217_O / - 770.001_F / - 771.0_F / - 771.1_F / - 740.8_S / - 746.210_S / - 748.2_S / - 748.7_S / - 746.213_S / - 741.71_S / - 746.21_S / - 746.301_S / - 748.59_S and ATEGO 9t rear axle MB-No. - 770.003_F, - 770.002_F, - 770.000_F.)

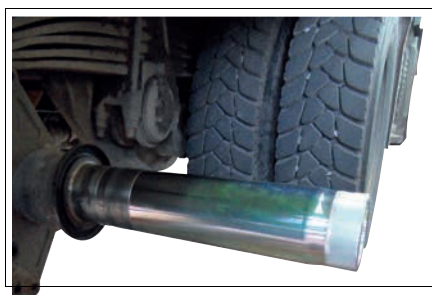
The **KL-1025-175** shaft seal installation tool is indispensable for the professional and correct mounting of the shaft seals used on Mercedes ACTROS and ATEGO rear axles.

Technical Data:

Ø:	175mm
Weight:	4.7kg

Scope of Delivery:**KL-1025-175 Shaft Seal Installation Tool, Ø 175mm**

Part No.	Description	Qty
KL-0125-1751	Shaft Seal Installation Tool, Ø 175mm	1
KL-1025-1752 A	Ring, 7.5mm	1
KL-1025-1753 A	Ring, 17.5mm	1



KL-1027-100

Wheel Bearing Centring Sleeve, Ø 105mm

Applicable to MAN HY 1350 rear axles, e.g. at TGA, TGX etc.

Designed for the professional installation of compact wheel bearings with wheel hub. Allows the user to slide the bearing on the axle tube accurately and without risk of jamming.

Technical Data:

Connection thread:	M100x1.5
Outer-Ø:	105mm
Length:	360mm

KL-1027-7578

Wheel Bearing Centring Sleeve, Ø 78mm

Applicable to Mercedes rear axle HL 2/43 type 742.503 / 504 / 505 / 506 / 509 e.g. at Atego, Atego 2, Tourino.

Designed to install compact wheel bearings with wheel hub. Allows the user to slide the bearing on the axle tube accurately and without the risk of jamming.

Technical Data:

Connection thread:	M75x1.5
Size (waf):	41mm
Length:	186mm
External Ø:	78mm



KL-1027-7582

Wheel Bearing Centring Sleeve, Ø 82mm

Applicable to MAN rear axle HY-0925-00, e.g. at TGL, TGM.

Designed to install compact wheel bearings with wheel hub. Allows the user to slide the bearings on the axle tube accurately and without the risk of jamming.

Technical Data:

Connection thread:	M75x1.5
Size (waf):	41mm
Length:	197mm
External Ø:	82mm



KL-1029-20 K HGV Wheel Removal Press Kit

Universally suitable for stuck HGV wheels (single and dual tire applications).

The HGV wheel removal press kit is designed to be used in conjunction with the **KL-0215-35** hydraulic hand pump (accessory), thus allowing even the most stubborn rims to be loosened/removed safely from the wheel hub. Also suitable for dual tire applications.

Note: The HGV wheel removal press must only be used in conjunction with a hydraulic hand pump.

Technical Data:

Maximum load capacity of the hydraulic cylinder:	10t
Length (Thrust piece "1"):	25mm
Length (Thrust piece "2"):	50mm
Length (Thrust piece "3"):	75mm
Connection thread for hydraulic coupling:	3/8"NPT



KL-1001-251 A Set of Sleeves for Drawbar Silentbloc

Suitable for silentblocs with a bore Ø of 57mm, for example for those found on „Regensburger“ HGV trailer drawbars.

The **KL-1001-251 A** sleeve set is used in conjunction with retaining adaptor **KL-0039-1003**, pull spindle **KL-0039-1920** and hydraulic cylinder **KL-0040-2500**, thus allowing for the quick and easy removal and replacement of HGV drawbar silentblocs.

Scope of Delivery:

KL-1001-251 A Set of Sleeves for Drawbar Silentbloc

Part No.	Description	Qty
KL-1001-2501	Pressure Piece	1
KL-0039-1772	Pressure-/Support Sleeve (long) Ø 72mm	1
KL-1001-2502	Conical Sleeve	1



KL-1010-101 M28 Drive Tool Kit without Hydraulic Cylinder, Ø 70mm

The tool kit is used in conjunction with the **KL-0040-2800** hydraulic cylinder. It is needed to drive the pressure piece-/sleeve sets of the **KL-1010-.. Series**.

Scope of Delivery:

KL-1010-101 M28 Drive Tool Kit without Hydraulic Cylinder, Ø 70mm

Part No.	Description	Qty
KL-1010-1010	Set of Drive Sleeves, Ø 70mm	1
KL-0040-2846	Pull Spindle M20, with Clamping Nut	1
KL-0039-1003	Retaining Adaptor with O-Ring, for Hydr. Cyl.	1





KL-1010-140 A

Pressure Piece/Sleeve Set, Ø 65mm

Suitable for split-type silentblocs with Ø of 65mm (removed 70mm) as found on Mercedes Actros front axle anti-roll bars.

The pressure piece / sleeve set **KL-1010-140 A** is used with the **KL-1010-100 A** drive tool kit thus allowing for the quick, professional and safe removal and installation of split-type silentblocs on anti-roll bars.

The removal and installation of the silentbloc can either be carried out at a work bench or directly on the vehicle if space conditions allow.

Scope of Delivery:

KL-1010-140 A Pressure Piece/Sleeve Set, Ø 65mm

Part No.	Description	Qty
KL-1010-1401	Conical Sleeve, Ø 65mm	1
KL-1010-1402 A	Spring Pressure Piece, Ø 65mm	1
KL-1010-1403	Centring Ring, Ø 65mm	1
KL-1010-1404	Centring Ring, Ø 65mm	1
KL-1010-1406	Pressure Piece (removal), Ø 65mm	1

KL-1010-220

Pressure Piece/Sleeve Set, Ø 75mm

Suitable for split-type silentblocs with Ø of 75mm (removed 80mm), e.g. Mercedes Actros and Atego rear axle anti-roll bar.

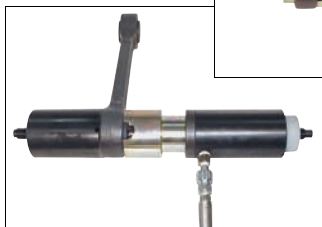
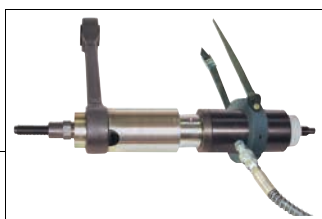
Used in conjunction with the **KL-1010-102** drive tool kit, the pressure piece/sleeve set **KL-1010-220** allows for the fast, professional and safe removal and replacement of split-type silentblocs on anti-roll bars.

Removal and installation of the silentbloc can either be carried out at a work bench or directly on the vehicle if space conditions allow.

Scope of Delivery:

KL-1010-220 Pressure Piece /Sleeve Set, Ø 75mm

Part No.	Description	Qty
KL-1010-2201	Conical Sleeve, Ø 75mm	1
KL-1010-2202	Spring Pressure Piece, Ø 75mm	1
KL-1010-2203	Centring Ring, Ø 75mm	1
KL-1010-2204	Centring Ring, Ø 75mm	1
KL-1010-2205	Pressure Piece (removal), Ø 75mm	1
KL-1010-2206	Support Ring	1



KL-0040-258 A

Retaining Device

for Hydraulic Cylinder KL-0040-2500

The **KL-0040-258 A retaining device** is used in conjunction with a transmission jack (Plunger Ø 30mm) thus allowing for the easy and trouble-free operation of all those GEDORE Automotive tools that are driven by the **KL-0040-2500** hydraulic cylinder.

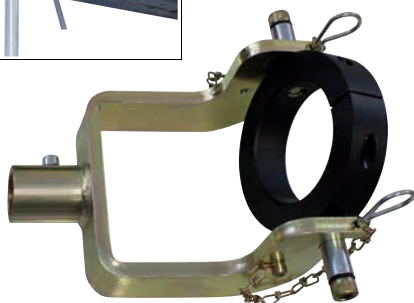
Technical Data:

Retaining Ø:	30mm
Weight:	2.6kg

Scope of Delivery:

KL-0040-258 A Retaining Device for Hydraulic Cylinder KL-0040-2500

Part No.	Description	Qty
KL-0040-2580 A	Retaining Device without Clamp Ring	1
KL-0040-2587	Clamp Ring for Hydraulic Cylinder	1



KL-0040-2500

Hydraulic Cylinder, 17t

Thanks to its special design as a hollow piston cylinder, the **KL-0040-2500** hydraulic cylinder (17t) can be used to perform pulling as well as pushing operations in conjunction with the corresponding spindles available as accessories.

Range of Use:

In conjunction with various GEDORE Automotive tools, the hydraulic cylinder (17t) **KL-0040-2500** can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentbloks and suspension ball joints.



Technical Data:

Maximum admissible force:	170kN (17t)
Maximum stroke:	45mm
Maximum oil pressure:	700bar
Maximum volume of oil:	122cm ³
Piston area:	27cm ²
Thread in hollow piston:	M20
Retaining thread (pushing side):	2 1/4"-14 UNS
Retaining thread (pulling side):	M42x2
Cylinder external diameter:	80mm
Cylinder overall length (piston retracted):	202mm
Cylinder overall length (piston extended):	247mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	5.2kg

Note:

A hydraulic pump is needed to drive the hydraulic cylinder **KL-0040-2500**. For accessories such as coupling, hydraulic pump, pressure gauge etc., please refer to chapter 4 (GEDORE Automotive Main Catalogue).

KL-0215-35 M25

Hydraulic Hand Pump

The **KL-0215-35 M25** hydraulic hand pump is designed to be used as a drive for the hydraulic cylinders **KL-0040-2500** and **KL-0040-170**.

The hydraulic pressure and necessary force can be monitored while operating the pump at pressure gauge **KL-0040-2529** (supplied with the tool set). The pressure gauge features an additional tonne scale specifically adapted to our **KL-0040-2500** hydraulic cylinder (17t).



Scope of Delivery:

KL-0215-35 M25 Hydraulic Hand Pump

Part No.	Description	Qty
KL-0215-33	Hydraulic Hand Pump (without hose)	1
KL-0215-31	Hydraulic Hose, 1.8m, with Hose-Side Connector	1
KL-0215-322	Cylinder-Side Connector, 1/4" NPT	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2529	Pressure Gauge	1

Technical Data:

Weight:	7.5kg
Max. pressure:	700bar

Note:

A hydraulic hand pump with pressure gauge precisely adapted to the hydraulic cylinder **KL-0040-2200** (10t) or **KL-0040-2800** (28t) available upon request.

KL-0215-36 M25

Hydraulic Pump (Pneumatic)

The pneumatic hydraulic pump **KL-0215-36 M25** is designed to be used as a drive for hydraulic cylinders. Compressed air is used to power the hydraulic pump. The pump is operated by a foot pedal with 3 positions - for pumping, holding and releasing.

Advantage: Both hands free to work.

Scope of Delivery:

KL-0215-36 M25 Hydraulic Pump (Pneumatic)

Part No.	Description	Qty
KL-0215-360	Hydraulic Pump (without Hose)	1
KL-0215-362	Hydraulic Hose, 2.5m, with Hose-Side Coupling	1
KL-0215-322	Cylinder-Side Coupling 1/4" NPT	1
KL-0040-2520	Adaptor 3/8" NPT to 1/4" NPT	1
KL-0040-2529	Pressure Gauge	1



Technical Data:

Maximum Pressure:	700bar
Operating Pressure:	8-12bar
Weight:	8kg

**Note:**

A hydraulic pump is required to drive the hydraulic cylinder **KL-0040-2800**.

KL-0040-2800

Hydraulic Cylinder, 28t

Thanks to its special design as a hollow piston cylinder, the **KL-0040-2800** hydraulic cylinder (28t) can be used to perform pulling and pushing operations in conjunction with the corresponding spindles available as accessories.

Application:

In conjunction with various GEDORE Automotive tools, the hydraulic cylinder **KL-0040-2800** can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentblocs and suspension ball joints.

Technical Data:

Maximum admissible force:	285kN (28t)
Maximum stroke:	50mm
Maximum volume of oil:	216.3cm ³
Maximum oil pressure:	700bar
Piston area:	40.6cm ²
Thread in tubular piston:	M24
Retaining thread (pushing side):	2 3/4"-16 UNS
Retaining thread (pulling side):	M42x2
Cylinder outer diameter:	99mm
Cylinder overall length (piston retracted):	235mm
Cylinder overall length (piston extended):	285mm
Hydraulic fluid connection thread:	3/8" NPT
Weight:	9.6kg

KL-0215-35 M28

Hydraulic Hand Pump

The **KL-0215-35 M28** hydraulic hand pump is designed to be used as a drive for the hydraulic cylinder **KL-0040-2800**.

The hydraulic pressure and necessary force can be monitored while operating the pump at pressure gauge **KL-0040-2829** (supplied with the tool set). The pressure gauge features an additional tonne scale which is specifically adapted to our **KL-0040-2800** hydraulic cylinder (28t).

Scope of Delivery:**KL-0215-35 M28 Hydraulic Hand Pump**

Part No.	Description	Qty
KL-0215-33	Hydraulic Hand Pump (without hose)	1
KL-0215-31	Hydraulic Hose, 1.8m, with Hose-Side Connector	1
KL-0215-322	Cylinder-Side Connector, 1/4" NPT	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2829	Pressure Gauge	1

Technical Data:

Weight:	7.5kg
Max. Pressure:	700bar

KL-1070-1126 B

Hexagonal Slogging Spanner, 26mm waf

Suitable for use on brake calipers screws as found at the rear axle of, for example, DAF 105 and DAF 106.

The **KL-1070-1126 B** hexagonal slogging spanner is designed to facilitate the loosening/tightening of the brake caliper screws found at the rear axle of e.g. DAF. The slogging spanner features a 3/4" square socket and is engraved with a torque conversion formula (necessary due to the extended lever), thus, allowing the user to tighten brake caliper screws - by means of a suitable 3/4" torque wrench - quickly and easily according to manufacturer specifications.

Thanks to the milled chamfer at one side of the spanner head, the tool can be used even in areas that are difficult to access.

Technical Data:

Length:	226mm
Size (waf):	26mm
Weight:	650g
Square socket:	3/4"



KL-1070-1018 B

External Hexalobular Slogging Spanner, E18

Suitable for use on brake caliper screws (with Torx Profile) as found at the front and trailer axle of MAN TGL and TGM.

The **KL-1070-1018 B** external hexalobular slogging spanner is designed to facilitate the loosening/tightening of the brake caliper screws found at the front and trailer axle of, e.g., MAN TGL and TGM. The slogging spanner features a 3/4" square socket and is engraved with a torque conversion formula (necessary due to the extended lever), thus, allowing the user to tighten brake caliper screws - by means of a suitable 3/4" torque wrench - quickly and easily according to manufacturer specifications. Using this tool, dismantling the track rod lever is not necessary.

Technical Data:

Length:	215mm
Size (waf):	E18
Weight:	500g
Square socket:	3/4"



KL-1070-1020 B

External Hexalobular Slogging Spanner, E20

Suitable for use on brake caliper screws (with Torx Profile) as found at the front axle of MAN TGL and TGM.

The **KL-1070-1020 A** external hexalobular slogging spanner is designed to facilitate the loosening/tightening of the brake caliper screws found at the front and trailer axle of, e.g., MAN TGL and TGM. The slogging spanner features a 3/4" square socket and is engraved with a torque conversion formula (necessary due to the extended lever), thus, allowing the user to tighten brake caliper screws - by means of a suitable 3/4" torque wrench - quickly and easily according to manufacturer specifications. Using this tool, dismantling the track rod lever is not necessary.

Technical Data:

Length:	216mm
Size (waf):	E20
Weight:	600g
Square socket:	3/4"



KL-1070-1024 B

External Hexalobular Slogging Spanner, E24

Suitable for use on brake caliper screws (with Torx Profile) as found at the front and trailer axle of MAN TGA, TGS and TGX.

The **KL-1070-1024 B** external hexalobular slogging spanner is designed to facilitate the loosening/tightening of the brake caliper screws found at the front and trailer axle of, e.g., MAN TGA, TGS and TGX. The slogging spanner features a 3/4" square socket and is engraved with a torque conversion formula (necessary due to the extended lever), thus, allowing the user to tighten brake caliper screws - by means of a suitable 3/4" torque wrench - quickly and easily according to manufacturer specifications. Using this tool, dismantling the track rod lever is not necessary.

Technical Data:

Length:	219mm
Size (waf):	E24
Weight:	610g
Square socket:	3/4"





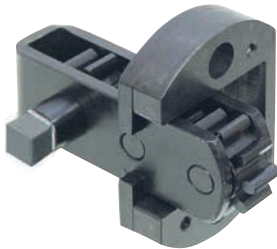
KL-0114-8944

Reaming Head, Ø 18x34mm

Universally suitable for ABS Sensor retaining bores with bore Ø 18mm.

Technical Data:

Drive:	1/4"
Ø:	18mm



KL-0363-3

Flywheel-Rotating Tool with 3 Sprockets

Suitable for Mercedes Actros engines; MAN lorries equipped with either a 5-, 6- or 8-cylinder engine.

This tool allows the user to accurately rotate the engine for valve setting or other maintenance and service work.

Technical Data:

Drive:	1/2"
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KL-1030-20

Engine-Supporting Device

Universally suitable.

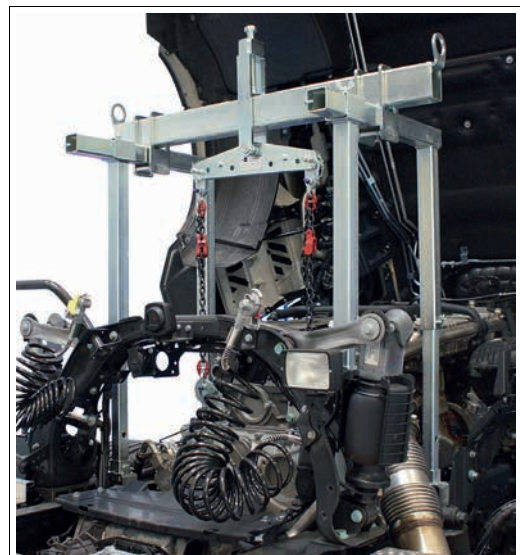
Particularly useful on Mercedes-Benz HGVs equipped with an engine from the HDEP, MDEG, 457, 500 or 900 Series. Engines installed, for example, in Mercedes-Benz Actros, Atego, Axor and Econic.

The engine-supporting device is designed for the unilateral raising/lowering of HGV engines, for example, when removing/installing the engine, when performing repair or maintenance work on the gear unit, or when changing a clutch.

Thanks to its special design allowing for infinite adjustment, the engine-supporting device can quickly and easily be adapted to suit the respective vehicle chassis.

The four support stands are all equipped with retaining claws to prevent the engine-supporting device from any lateral slipping off the vehicle chassis.

With the aid of the chains, which are adjustable in length, and the lifting spindle, the HGV engine can be suspended quickly and safely in the engine-supporting device at the respective suspension points.



KL-1030-10

Clutch-Mounting Device

Universal application.

The clutch mounting device is designed for the safe support and positioning of the clutch pressure plate during removal/installation of the clutch. It is used in conjunction with either a crane, pit lift or transmission jack.

Thanks to the adjustable retaining rollers of the basic unit, virtually any common HGV clutch pressure plate can be safely held in the device.

The pivoting retaining rollers and the adjustable inclination angle of $\pm 10^\circ$ allow for the accurate alignment of the clutch pressure plate relative to the flywheel.

The clutch mounting device comes with a mounting bracket, a transport handle and three retaining pins ($\varnothing 35, 45, 55\text{mm}$) which enable it to be used with either a crane, pit lift or transmission jack as needed.

Note:

When used in conjunction with the various retaining adaptors (accessories), the **KL-1030-10** clutch-mounting device additionally covers the removal/installation of flywheels and die-cast iron clutch pressure plates.

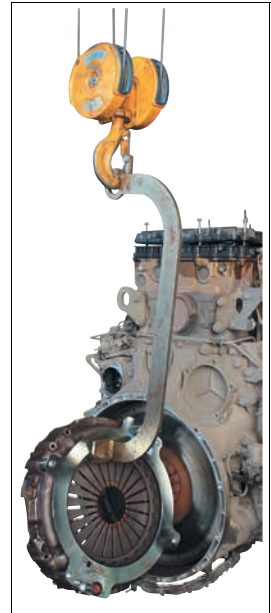
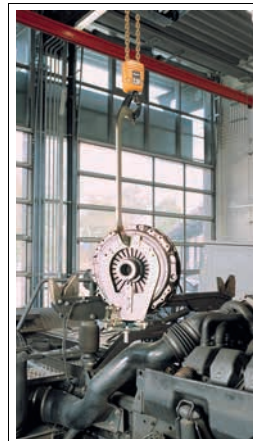
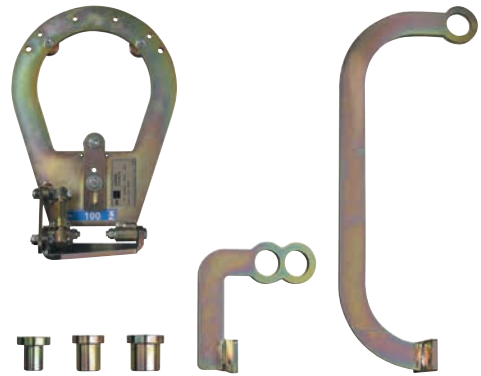
Technical Data:

Height of basic unit with retaining pin:	540mm
Retaining pin \varnothing :	35, 45, 55mm
Adjustable inclination angle:	$\pm 10^\circ$
Max. load capacity:	100kg
Max. load capacity (in conjunction with KL-1030-106 [accessory]):	80kg

Scope of Delivery:

KL-1030-10 Clutch-Mounting Device

Part No.	Description	Qty
KL-1030-100	Base Tool	1
KL-1030-1001	Retaining Pin (35mm)	1
KL-1030-1002	Retaining Pin (45mm)	1
KL-1030-1003	Retaining Pin (55mm)	1
KL-1030-1004	Transport Handle	1
KL-1030-1005	Mounting Bracket	1



KL-1030-102

Adaptor for Flywheel

Suitable for all common types of HGV flywheels having a pitch circle \varnothing of 375, 410 or 450mm, as well as for clutch pressure plates.

The ideal tool for, e.g., Mercedes-Benz Actros MP4 (OM 470, 471, 472 and 473).

This adaptor is needed to retain HGV flywheels and clutch pressure plates safely and securely in the **KL-1030-10** clutch-mounting device.

Technical Data:

Max. load capacity:	100kg
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KL-0069-67 K

Clutch Aligner Kit

(Universal)

Intended for use on Vans and HGV equipped with a single- or double-disc clutch.

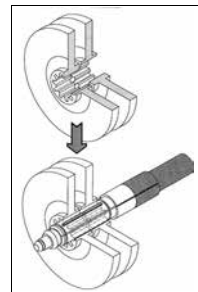
The clutch aligner kit is indispensable for the quick and easy alignment of the clutch disc/clutch discs.

The centring takes place via the pilot bearing in the crankshaft.

Scope of Delivery:

KL-0069-67 K Clutch Aligner Kit

Part No.	Description	Qty
KL-0069-6	Clutch Aligner (HGV)	1
KL-0069-7	Clutch Aligner (Vans)	1
KL-0069-6090	Plastic Storage Case	1



Part No.	Description	Chapter
224021	Ratchet Pipe Cutter niro Code: 1600885	6.9-03
224211	Replacement Cutting Wheel	6.9-03
231000	Miniature Pipe Cutter MINI-QUICK - Code: 4504560	5-12
234001	Dual Beading Tool - Code: 4505530	5-12
4549-05	Torque Wrench TORCOFIX K	6.8-08
GEDORE 5011	Ratchet Wrench 1/2" Code: 1479229	1-10
KL-0005	Spring Compressor	1-32
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KL-0025-1	Spring Compressor, with Pressure Plates in Size 1 + 2	1-28
KL-0025-1 K	Spring Compressor, with Pressure Plates in Size 1 + 2	1-28
KL-0025-11	Pair of Pressure Plates, Size 1	1-30
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KL-0025-13	Pair of Pressure Plates, Size 3	1-31
KL-0025-14	Pair of Pressure Plates, Size 4	1-31
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KL-0025-16	Pair of Pressure Plates, Size 0A	1-31
KL-0025-17	Pair of Pressure Plates, M-Class	1-31
KL-0025-2	Spring Compressor (Short Design) with Pressure Plates	1-30
KL-0029-10	Coil Spring Pre-Compressor, VW-Audi	1-02, 1-04
KL-0029-10 K	Coil Spring Pre-Compressor in a Plastic Storage Case	1-02
KL-0029-11	Coil Spring Pre-Compressor Kit	1-04
KL-0029-11 E	Coil Spring Pre-Compressor Kit, in a Foam Insert	1-04
KL-0029-11 K	Coil Spring Pre-Compressor Kit, in a Storage Case	1-04
KL-0029-1303	Shock Absorber Holding-Down Clamp	1-05
KL-0029-160	Upgrade Kit, Size 6	1-05
KL-0029-170	Upgrade Kit, Size 7	1-05
KL-0039-0100	Wheel Bearing Tool Set, without Hydr. Cylinder	3.1-06
KL-0039-0101	Pressure-/Centring Ring Set (16-Piece Set)	3.1-05
KL-0039-0110	Wheel Bearing Tool Set, with Mechanical Drive	3.1-05
KL-0039-0110 K	Wheel Bearing Tool Set (Mechanical Drive)	3.1-05
KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	3.1-11, 4-12
KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	3.1-12, 4-12
KL-0039-1004	Retaining Adaptor with O-Rings, for Pressure Spindle (Ø 18mm)	4-13, 4-50
KL-0039-1005	Adaptor, Ø 35mm	3.1-12, 4-13
KL-0039-101	Wheel Bearing Tool Drive Set, without Hydraulic Cylinder	3.1-06
KL-0039-1011	Retaining Adaptor for Mechanical Spindle	3.1-11, 4-07
KL-0039-1105	Adaptor with O-Ring, 2¼"-14 UNS to Ø 30mm	4-22
KL-0039-1106	Adaptor with O-Ring, M42x2 to Ø 30mm	4-22
KL-0039-1110	Press Frame (Short Design)	4-21
KL-0039-113	Frame Bars (Pair), 350mm long, with Cheese Head Screws	4-21
KL-0039-1140	Press Frame (Lightweight, Short Design)	4-20
KL-0039-115	Frame Bars (Pair), 350mm long, with Hex Nuts	4-20
KL-0039-1160	Press Frame Kit, without Hydraulic Cylinder	4-20
KL-0039-1160 E	Press Frame Kit, without Hydraulic Cylinder, in a Foam Insert	4-20
KL-0039-1160 K	Press Frame Kit, without Hydraulic Cylinder, in a Plastic Storage Case	4-20
KL-0039-1161 E	Press Frame Kit, without Drive, in a Foam Insert	4-20
KL-0039-120	Set of Pressure Rings, Ø 54-90mm	3.1-15
KL-0039-130	Set of Centring Rings, Ø 25-60mm	3.1-15
KL-0039-140	Housing Set	3.1-05
KL-0039-1401	Bearing Cover	3.1-13
KL-0039-1402	Housing	3.1-13
KL-0039-1403	Housing	3.1-13
KL-0039-1413	Centring Ring, Ø 70mm	3.1-14
KL-0039-1414	Centring Ring, Ø 75mm	3.1-14

Part No.	Description	Chapter
KL-0039-1415	Centring Ring, Ø 80mm	3.1-14
KL-0039-160	Pressure/Support Sleeve Set, Ø 30-90mm, short, 45mm	2-04, 4-06
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