

AUTOMOTIVE TOOLS / QUALITY MADE BY GEDORE

EN | 10.2

SPECIALTY TOOLS CATALOGUE

Including
novelties
'22/23



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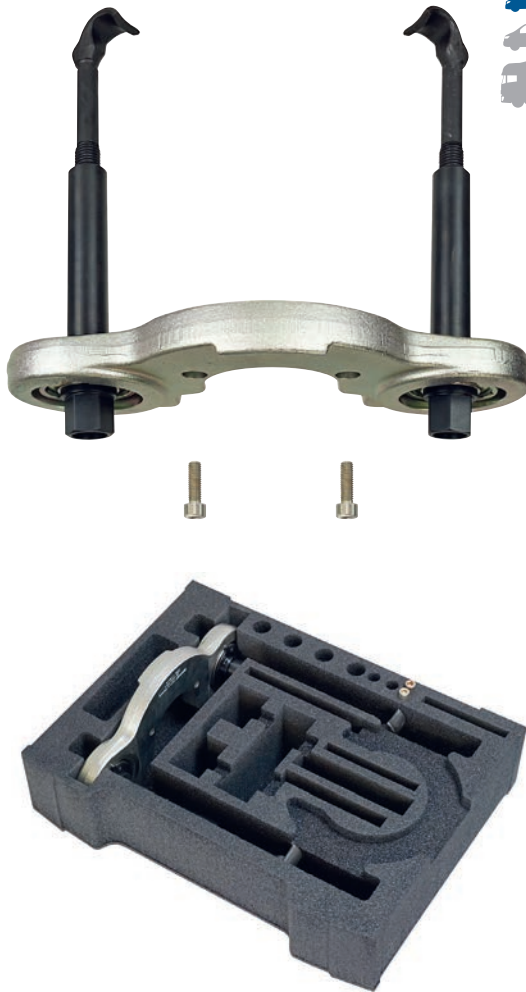
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1. Springs and Shock Absorbers





KL-0029-100 EB (Code 3294668) (Patented) Coil Spring Pre-Compressor, in a Foam Insert

The base coil spring pre-compressor allows you to remove and install MacPherson struts in a **particularly time-saving manner**. For this, it is used **in conjunction** with the corresponding vehicle-specific upgrade kit (cf. accessory).

A decisive advantage of this pre-compressor is the fact that by pre-compressing the MacPherson strut in situ on the vehicle, the strut can be removed without the need for releasing the control arm/drive shaft, upper ball joint and track rod joint.

As a result, wheel alignments that might be required by the vehicle manufacturer are no longer necessary.

The well-thought-out design of the tool **in conjunction** with the vehicle-specific upgrade kits (available separately) allow for a wide range of applications - irrespective of the shape of the springs.

Substantial time savings of up to 25%, among other benefits, make this spring pre-compressor a rewarding investment for many years to come.

Required Accessory: Vehicle-specific upgrade kits **KL-0029-1..**

Recommended Accessory:

KL-0104-21-1 B Spreader Tool (adjustable), with Wedge No.1 + 2, **KL-0104-21..** Accessories (cf. scope of delivery of **KL-0104-21 KB**)

Tool Storage System: **KL-0029-2090** - Plastic Storage Case

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:

The coil spring pre-compressor must never be used for the disassembling of suspension struts. 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 B** spreader tool.

KL-0029-100 A Coil Spring Pre-Compressor

Like the **KL-0029-100 EB**, however, supplied without Foam Insert.

Scope of Delivery: **KL-0029-100 EB Coil Spring Pre-Compressor, in a Foam Insert**

| Part No. | Description | Qty |
|------------------|---|-----|
| KL-0029-100 A | Coil Spring Pre-Compressor (Basic Unit) | 1 |
| KL-0029-1090-1 A | Foam Insert | 1 |

Technical Data:

| | |
|------------------------|---------|
| Maximum load capacity: | 17,500N |
| Maximum span*: | 345mm |
| Compression travel*: | 120mm |
| Clamping nut drive: | 27mm |

* = without support plate





KL-0029-110 A (Code 3127850)

Upgrade Kit, Size 1, Size 2, Size 3, 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 Octavia (1Z3), Octavia (1Z5), Superb (3T4), Rapid, Citigo etc.

The KL-0029-110 A kit upgrades the KL-0029-100 / -100 A base coil spring pre-compressor by making it also suitable for use on the above-mentioned vehicles.

Required Accessory:

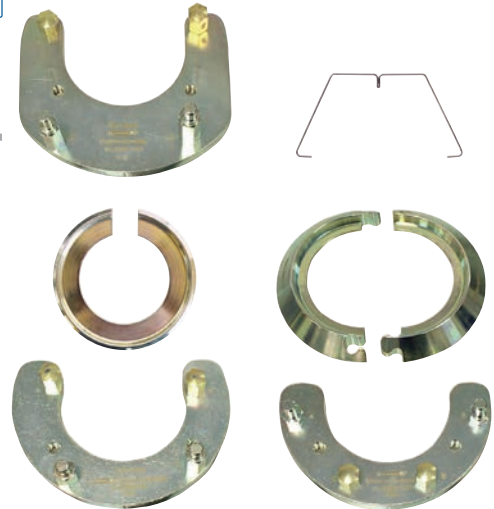
KL-0029-100 / -100 A Coil Spring Pre-Compressor

Scope of Delivery:

KL-0029-110 A Upgrade Kit, Size 1, Size 2, Size 3, VW-Audi

| Part No. | Description | Qty |
|---------------|----------------------------------|-----|
| KL-0029-111 | Support Plate with Bolts, Size 1 | 1 |
| KL-0029-120 A | Upgrade Kit, Size 2, VW-Audi | 1 |
| KL-0029-130 | Upgrade Kit, Size 3, VW-Audi | 1 |

2 pcs.



KL-0029-120 A (Code 3091619)

Upgrade Kit, Size 2, VW-Audi

Designed for the VW-Audi, Seat, Škoda vehicles built on the PQ35 platform such as: VW Caddy III (2K), EOS (1F7), Golf V (1K, 6R), Golf VI (5K), Golf Plus (5M), Jetta III (1K2), Passat (3C, 363, 365), Scirocco (137), Touran (1T), Tiguan (5N); Audi A3 (8P), TT (8J), Q3 (8U); Seat Altea (5P1), Altea XL (5P1), Leon II (1P1), Toledo III (5P2); Škoda Octavia (1Z3), Octavia (1Z5), Superb (3T4) etc.

The KL-0029-120 A kit upgrades the KL-0029-100 / -100 A base coil spring pre-compressor by making it also suitable for use on the above mentioned vehicles.

Required Accessory:

KL-0029-100 / -100 A Coil Spring Pre-Compressor

Scope of Delivery:

KL-0029-120 A Upgrade Kit, Size 2, VW-Audi

| Part No. | Description | Qty |
|----------------|----------------------------------|-----|
| KL-0029-1209 A | Support Ring, open, Size 2 | 1 |
| KL-0029-121 | Support Plate with Bolts, Size 2 | 1 |

2 pcs.



KL-0029-122 (Code 3256162)

Upgrade Kit for KL-0029-120 A, VW-Audi

Designed for the VW-Audi, SEAT, ŠKODA vehicles built on the PQ35 platform and **equipped with aftermarket strut assemblies from KYB (KAYABA) (e.g. KYB 334834).**

For example: VW Golf V (1K), Golf VI (5K, AJ), Golf Plus (5M), Jetta V (1K), Jetta VI (5K, AJ), Beetle (5C), Caddy III (2K, 2C); Audi A3 (8P); Seat Altea (5P), Altea XL (5P), Leon (1P), Toledo III (5P); Skoda Octavia II (1Z), Yeti (5L).

With the addition - KL-0029-122 the spring compressor base unit - KL-0029-100 A is also suitable for the above-mentioned vehicles with aftermarket suspension struts from KYB (KAYABA).

Necessary Accessories:

KL-0029-100 / -100 A Coil Spring Pre-Compressor

KL-0029-120 A Upgrade Kit, Size 2

Scope of Delivery:

KL-0029-122 Upgrade Kit for KL-0029-120 A, VW-Audi

| Part No. | Description | Qty |
|--------------|--------------------------------|-----|
| KL-0029-1221 | Shim for Support Plate, Size 2 | 1 |
| KL-0029-1222 | Bolt with Pin, 20mm | 1 |
| KL-1615-1128 | Cheese Head Screw, M8x16mm | 2 |

4 pcs.





4 pcs.



KL-0029-130 A (Code 3294587)

Upgrade Kit, Size 3, VW-Audi

Designed for the VW-Audi, Seat, Škoda vehicles built on the PQ25 as well as NSF platforms such as: VW Polo (6R), up! (12); Audi A1 (8X); Seat Ibiza V (6J5), Ibiza V ST (6J8), Mii (KF1); Škoda Rapid, Citigo etc.

The Size 3 Kit upgrades the **KL-0029-100 / -100 A** coil spring pre-compressor by making it also suitable for use on the above mentioned vehicles. The included shock absorber holding-down clamp ensures that the piston rod is securely held in the upper spring plate and pressed down while the suspension strut is being pre-compressed.

Required Accessory: KL-0029-100 / -100 A Coil Spring Pre-Compressor

Scope of Delivery: KL-0029-130 A Upgrade Kit, Size 3, VW-Audi

| Part No. | Description | Qty |
|--------------|-----------------------------------|-----|
| KL-0029-131 | Support Plate with Bolts, Size 3 | 1 |
| KL-0029-1309 | Two-Part Support Ring, Size 3 | 1 |
| KL-0029-1303 | Shock Absorber Holding-Down Clamp | 1 |



4 pcs.



KL-0029-150 (Code 3077233)

Upgrade Kit, Size 5, Ford

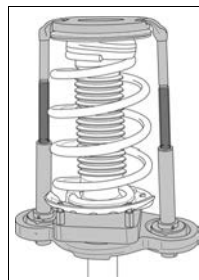
Suitable for use on Ford front axle suspension struts; as found in Ford Mondeo IV (BA7), S-Max (WA6) and Galaxy (WA6).

The **KL-0029-150** kit is designed to upgrade the **KL-0029-100 / -100 A** coil spring pre-compressor base tool by making these also suitable for use on the above-mentioned vehicles. The extension sleeves that come with the kit allow the **KL-0029-100** base coil spring pre-compressor to be updated to the current **KL-0029-100 A** version.

Required Accessory: KL-0029-100 / -100 A Coil Spring Pre-Compressor

Scope of Delivery: KL-0029-150 Upgrade Kit, Size 5, Ford

| Part No. | Description | Qty |
|----------------|----------------------------------|-----|
| KL-0029-1501 | Support Ring, Size 5 | 1 |
| KL-0029-151 | Support Plate with Bolts, Size 5 | 1 |
| KL-0029-1002-1 | Extension Sleeve | 2 |



2 pcs.



KL-0029-160 A (Code 3275221)

Upgrade Kit, Size 6 (BMW)

Suitable for use on BMW front axle suspension struts as found in BMW 3 Series (E46), (E90/E91); 5 Series (E39), (E60/E61), 1 Series (E81/E87), X1 (E84).

The **KL-0029-160 A** kit is designed to upgrade the **KL-0029-100 / -100 A** base coil spring pre-compressor by making it also suitable for use on the above-mentioned vehicles.

Required Accessory: KL-0029-100 / -100 A Coil Spring Pre-Compressor

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

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



2 pcs.



KL-0029-170 (Code 2952815)

Upgrade Kit, Size 7, VW T5

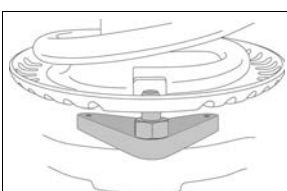
Suitable for use on VW front axle suspension struts as found in VW T5 (7J, 7H, 7E, 7F).

The **KL-0029-170** kit is designed to upgrade the **KL-0029-100 / -100 A** base coil spring pre-compressor by making it also suitable for use on the above-mentioned vehicles.

Required Accessory: KL-0029-100 / -100 A Coil Spring Pre-Compressor

Scope of Delivery: KL-0029-170 Upgrade Kit, Size 7, VW T5

| 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 [Code 2944057]

Shock Absorber Holding-Down Clamp

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

Intended to ease the removal of suspension struts. The **KL-0029-1303** shock absorber holding-down clamp is designed to be used in conjunction with the **KL-0029-100 A** base coil spring pre-compressor and the **KL-0029-130** upgrade kit.

It ensures that the piston rod is securely held in the upper spring plate and pressed down while the suspension strut is being pre-compressed.



KL-0104-21 KB [Code 3269396] (Patented)

Spreader Tool Kit (adjustable), with Wedge No.1 + 2 + 4 + 5

Applicable to strut clamping bores as found in: Audi A3 (8P, 8V), Audi TT (8S); VW Arteon (3H), Golf IV (1J), Golf V (1K), Golf VI (1K), Golf VII (AU), Passat (3C, 362, 365), T5 (7H, 7J), T6 (7H, 7J); BMW 2 Series (F45); Citroën; Fiat Panda (312); Ford Tourneo Connect, Galaxy (CK); Kia Sportage; Mercedes GLA (X156), Vito, V-Class; Nissan Qashqai (J10, 2006-2013); Seat; Škoda Kodiq; Renault Clio (IV), Kadjar (2015-2018), Megane (IV); Peugeot; Jeep; Volvo V70; Japanese vehicles etc. Also suitable for spreading the slot (clamp) in the front wheel bearing housing (steering knuckle) to allow for proper removal of the lower ball joint from the following vehicles: Audi A4 (8K), A5 (8T, 8F), A6 (4G), A7 (4G), A8 (4H), Q5 (8R) etc.

Alternative tools: VAG 3424; VAG T20040; BMW 312230

The spreader tool kit is designed to professionally expand the strut clamping bore in steering knuckles. It can also be used to spread the slot (clamp) on the front wheel bearing housing (steering knuckle) to allow for the damage-free removal of the lower ball joint. This procedure is an absolute must to ensure the proper removal of tight-fitting or stuck spring/shock absorber units and lower suspension ball joints respectively. Special features of the tool are the floating bolts that prevent the tool from jamming and the special spreader wedge which is provided with a limit stop to avoid excessive knuckle widening. Prevents expensive damage to the cast iron or aluminium steering knuckle or other chassis components that may be caused by unprofessional removal/installation attempts. Thanks to its variably adjustable spreader tip, this tool is also ideal for use on vehicles with steering knuckles having a non-centralised slot!

An indispensable tool when changing springs, shock absorber units as well as suspension ball joints.

Technical Data:

| | |
|----------------------|--------------------|
| Spreader wedge No.1: | a: 5.5mm; b: 12mm |
| Spreader wedge No.2: | a: 2.0mm; b: 8.0mm |
| Spreader wedge No.4: | a: 5.5mm; b: 9.5mm |
| Spreader wedge No.5: | a: 12.5mm; b: 17mm |

Scope of Delivery: KL-0104-21 KB Spreader Tool Kit (adjustable), with Wedge

| Part No. | Description | Qty |
|----------------|---|-----|
| KL-0104-21-1 B | Spreader Tool (adjustable), with Wedge No.1 + 2 | 1 |
| KL-0104-2124 | Pressure Screw, with Wedge No.4 | 1 |
| KL-0104-2125 | Pressure Screw, with Wedge No.5 | 1 |
| KL-0104-2141 | Bolt with M10 Thread | 1 |
| KL-0104-2190 | Plastic Storage Case with Insert | 1 |

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

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

6 pcs.



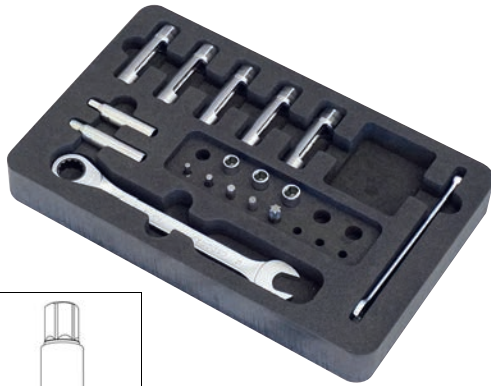
KL-0104-214 [Code 3235580]

Spreader Tool Upgrade Kit, Lower Ball Joint, Audi

Suitable for use on the lower ball joint clamp (slot) in the front wheel bearing housing (steering knuckle). Applications: Audi A4 (8K), A5 (8T, 8F), A6 (4G), A7 (4G), A8 (4H), Q5 (8R) etc.

The kit is intended to complement the earlier spreader tool kits **KL-0104-21-1 A** and **KL-0104-21 A**. Used to professionally spread the clamp (slot) in the front wheel bearing housing (steering knuckle) accommodating the lower ball joint.





18 pcs.



KL-0056-11 E

(Code 3401472)

Shock Absorber Piston Rod Tool Set, in a Foam Insert

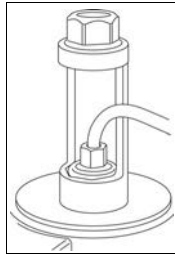
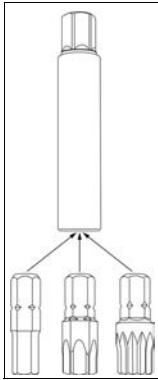
Fits universally for MacPherson struts on passenger cars.

For quick loosening and tightening of the piston rod nut on MacPherson struts. Required, for example, when replacing the shock absorber or the suspension spring. The special holders and the large number of interchangeable screwdriver bits and sockets also allow the shock absorber piston rod to be properly held in place through the open sockets. The ring ratchet wrench included in the kit facilitates and speeds up this work.

Recommended Accessories:
1993 U-20 SK Reversible ratchet

Technical Data:

| | |
|--------------------------------|-------------------------------|
| Sockets: | Size (waf) 16/17/18/19/21mm |
| Screwdriver bits: | Size (waf) 5/6/7 mm/T50/XZN12 |
| Pluggable insert, double flat: | Size (waf) 6/7/8mm |
| Socket drive: | Size (waf) 19mm |
| Holder drive: | Size (waf) 10mm |
| Holder for screwdriver bits: | 5/16" |
| Holder for pluggable inserts: | 1/4" |



Scope of Delivery:

KL-0056-11 E Shock absorber piston rod tool set, in foam insert

| Part No. | Description | Qty |
|----------------|--|-----|
| KL-0056-1116 | Socket, open, size (waf) 16mm | 1 |
| KL-0056-1117 | Socket, open, size (waf) 17mm | 1 |
| KL-0056-1118 | Socket, open, size (waf) 18mm | 1 |
| KL-0056-1119 | Socket, open, size (waf) 19mm | 1 |
| KL-0056-1121 | Socket, open, size (waf) 21mm | 1 |
| KL-0056-1131 | Holder for screwdriver bits 5/16" | 1 |
| KL-0056-1132 | Holder for sockets 1/4" | 1 |
| KL-0056-1141 | Screwdriver bit, size (waf) 5mm | 1 |
| KL-0056-1142 | Screwdriver bit, size (waf) 6mm | 1 |
| KL-0056-1143 | Screwdriver bit, size (waf) 7mm | 1 |
| KL-0056-1144 | Screwdriver bit T50 | 1 |
| KL-0056-1145 | Screwdriver bit XZN12 | 1 |
| KL-0056-1151 | Socket, double flat, 6mm | 1 |
| KL-0056-1152 | Socket, double flat, 7mm | 1 |
| KL-0056-1153 | Socket, double flat, 8mm | 1 |
| 7 R 19 | Open-ended spanner with ring ratchet, 19mm | 1 |
| 7 XL 10 | Combination spanner, 10mm | 1 |
| KL-0056-1190-1 | Foam insert | 1 |

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KL-0050-60

(Code 3051412)

Special Socket (13mm waf), Strut Mount, VW

Universally applicable to VW-Audi, Seat and Skoda vehicles equipped with three-bolt strut mounts with 13mm hexagon or octagon fixing nuts.

An indispensable tool designed to counter-hold the nut on the strut mount in a professional way when undoing the bolt. The special socket prevents the press-fitted nut from breaking away when unscrewing the bolt from the strut mount, thus, avoiding the labour-intensive process of drilling the strut mount bolt out of its bore. The tool can quickly be adapted to suit hexagon and octagon nuts - simply by reversing the socket.

The special design of the socket and the use of the extension provided allow even nuts that are difficult to access to be counter-held properly.

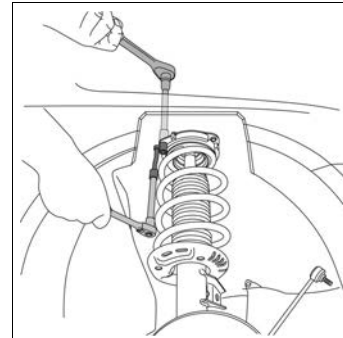
Recommended Accessory:

3093 U-20 Reversible Ratchet, 3/8", **3090-5** Extension 125mm

Technical Data:

| | |
|-------------|---------------------|
| Drive: | 3/8" |
| Size (waf): | 13mm |
| Profile: | hexagon and octagon |

2 pcs.



KL-0050-61

(Code 3124479)

Special Socket (14mm waf), Strut Mount, VW

Universally applicable to VW-Audi, Seat and Skoda vehicles equipped with three-bolt strut mounts with 14mm hexagon fixing nuts.

An indispensable tool designed to counter-hold the nuts on the strut mount in a professional way when undoing the bolt. The special socket prevents the press-fitted nut from breaking away when unscrewing the bolt from the strut mount, thus, avoiding the labour-intensive process of drilling the strut mount bolt out of its bore. The special design of the socket and the use of the extension provided allow even nuts that are difficult to access to be counter-held properly.

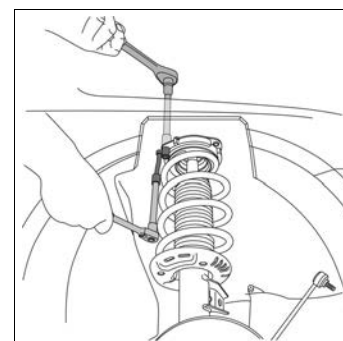
Recommended Accessory:

3093 U-20 Reversible Ratchet, 3/8", **3090-5** Extension 125mm

Technical Data:

| | |
|-------------|--------|
| Drive: | 3/8" |
| Size (waf): | 14mm |
| Profile: | Bi-hex |

2 pcs.



KL-0145-120 A

(Code 3041247)

Supporting Device for Control Arm

Universal fit for wheel hubs with a bolt circle diameter of 5x130mm, 5x120mm, 5x112mm, 5x100mm, and many more.

The device is used in conjunction with a transmission jack for supporting and securing control arms.

The support takes place via the wheel hub. Thanks to its special design, the device can be fixed at camber angle position, thus, ensuring the correct raising and lowering of control arms/axles to specified positions.

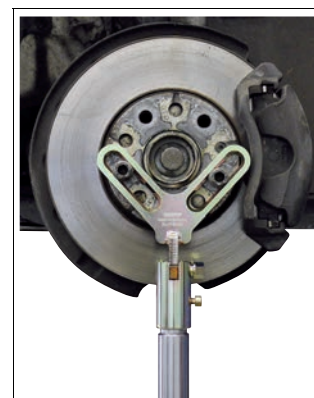
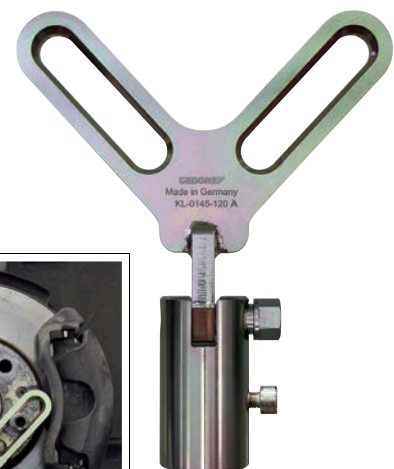
This tool will greatly simplify the removal/installation of suspension struts.

Recommended Accessory:

KL-0040-2571 Adaptor Sleeve, Ø 25mm

Technical Data:

| | |
|---------------------|---------|
| Retaining Ø: | 30mm |
| Overall height: | 205mm |
| Inclination angle: | +/- 45° |
| Max. load capacity: | 300kg |

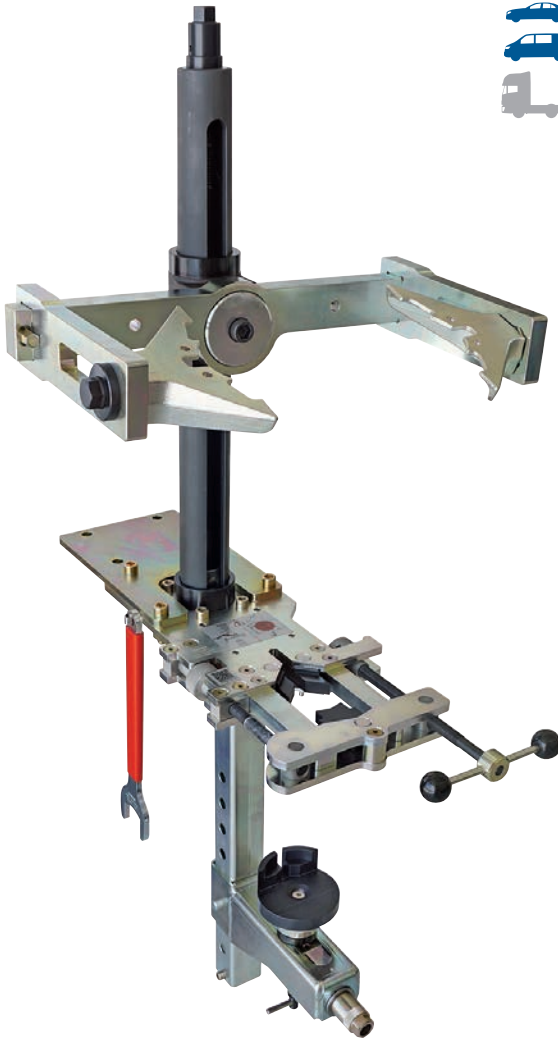




KL-5501 B

(Code 3230503) (Patented)

Spring Compressor, Stationary



Universally applicable to virtually all MacPherson suspension strut and shock absorber designs with coil springs, such as right-hand-coiled springs, left-hand-coiled springs, eccentric springs/spring plates, conical springs, springs with a small number of windings, long-pitch springs or variable-pitch springs. Also suitable for use on shock absorber designs with rebound buffer springs, shock absorbers on which the hardness is electronically adjustable as well as magnetorheological shock absorbers.

Alternative tool: VAS 6908/1

The stationary spring compressor is the ultimate solution when it comes to compressing the MacPherson-type struts/shock absorbers that are commonly used in today's vehicle suspension systems.

Special features, such as the variable spring plate-clamping device, the adjustable support column assembly, and the strut-holding device with one-hand operation, make the **KL-5501 B** a very versatile spring compressor that satisfies the highest Health and Safety Standards.

Thanks to a special technique, the spring is compressed via the upper spring plate against the lower spring plate, hence spring shape and spring pitch are no longer an issue.

Comes with a mounting plate that allows the spring compressor to be easily fixed to an appropriate workshop trolley or workbench.

Recommended Accessory:

KL-5501-40 Hand crank, **1993 U-20** Reversible Ratchet 1/2",

KL-0056-11 E Shock Absorber Piston Rod Tool Set,

Advantages:

Universal application!

Thanks to the wide range of adjustment possibilities, the spring compressor is applicable to virtually any MacPherson suspension strut and shock absorber design commonly used in today's vehicle suspension systems.

Maximum safety!

The sophisticated and solid overall design of the stationary spring compressor as well as its simple and user-friendly operation provide a maximum level of safety.

Applicable to many different spring designs!

With this spring compressor, the design of the spring - no matter whether it is about right-hand-coiled springs, left-hand-coiled springs, conical springs, eccentric springs, springs with a small number of windings, long-pitch springs or variable-pitch springs - is no longer an issue. This is thanks to the special compression technique which allows the spring to be compressed via the upper spring plate against the lower spring plate.

Applicable to shock absorbers with rebound buffer spring!

Thanks to the large opening width of 570mm and a compression force of up to max. 15 000N, even shock absorbers with rebound buffer springs that require a high pre-load on the spring are not an issue.

No damage to the strut/shock tube!

The clamping bars of the strut-holding device can properly and quickly be aligned and adjusted to the respective strut tube diameter by means of a knurled nut. Plastic clamping jaws prevent damage to the strut tube.

Allows for one-person operation!

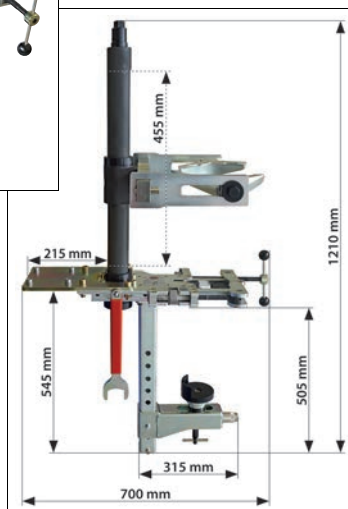
Thanks to the strut-holding device with quick-action clamping and one-hand-operation mechanism, the entire process can be carried out by just one person.

Mobile use - in conjunction with a workshop trolley/workbench!

The stationary spring compressor comes with a mounting plate that enables it to be fixed to an appropriate workshop trolley/workbench. To attach the spring compressor to the MODULO **KL-4999-120 A**, **KL-4999-121 A** workshop trolley/workbench or to a vertical wall, the special MODULO mounting kit **KL-5501-211** (available separately as accessory) is needed. This allows the user to carry out repairs more quickly, more efficiently and more flexibly, also next to the vehicle.

Technical Data:

| | |
|----------------------------|-------------|
| Drive: | 24mm waf |
| Breaking point: | 60,000N |
| Max. load capacity: | 15,000N |
| Weight without trolley: | 46kg |
| Max. span (opening width): | 570mm |
| For spring plate Ø: | 125 - 220mm |



KL-5501-211 [Code 3259439]

MODULO and Wall Bracket, short

Suitable for KL-5501 B (NOT for KL-5501).

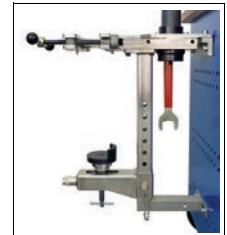
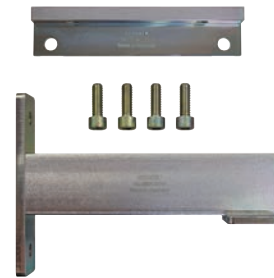
The mounting kit allows the **KL-5501 B** spring compressor to be safely and securely fixed to the MODULO workshop trolley/workbench **KL-4999-120 A** or **KL-4999-121 A** (GEDORE 1507 XL) as well as to an appropriate vertical wall.

Also suitable for space-saving mounting on a vertical wall. However, due to the proximity to the wall, the use of a hand ratchet is only possible up to a return angle of approx. 180°. Using the hand crank - **KL-5501-40** is excluded. As an alternative, use the long wall bracket - **KL-5501-212**.

Technical Data:

| | |
|-----------------------|----------------------|
| Distance to the wall: | 105mm (middle drive) |
|-----------------------|----------------------|

6 pcs.



KL-5501-212 [Code 3402169]

Wall Bracket, long

Suitable for KL-5501 B (NOT for KL-5501).

The long wall bracket enables stable mounting of the stationary spring compressor - **KL-5501 B** on a vertical wall. Here, the using the hand ratchet as well as the hand crank - **KL-5501-40** is possible without problems.

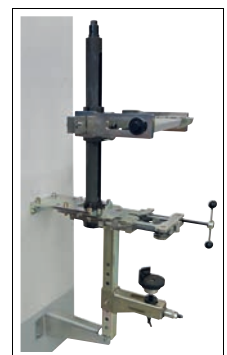
Recommended Accessories:

KL-5501-40 Hand crank

Technical Data:

| | |
|-----------------------|----------------------|
| Distance to the wall: | 245mm (middle drive) |
|-----------------------|----------------------|

4 pcs.



KL-5501-40 [Code 3402444]

Hand Crank, size 24 mm

The hand crank enables an amazingly simple and fast drive of the stationary spring compressor - **KL-5501** or **KL-5501 B** when tensioning and releasing a McPherson strut. For this purpose, the crank handle is simply attached to the spring compressor via the 24 mm drive hexagon.

Technical Data:

| | |
|---------|------------------|
| Drive: | Hexagonal / 24mm |
| Length: | 195mm |



KL-5501-171 [Code 3002969]

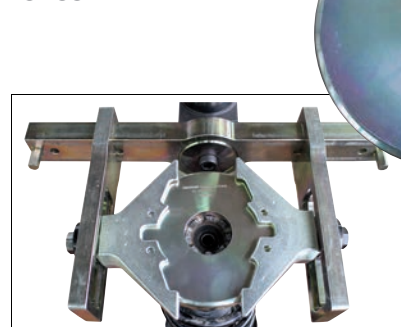
Adaptor Ring, Nissan, Renault, Fiat

Suitable for use on 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 / KL-5501 B** 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 |
|-------------|-------|





KL-5501-1435 A

(Code 3406199)

Adapter for Shock Absorber with Fork Mount

Fits struts with fork mount. For example, installed on Mercedes M-Class (W164, W166), R-Class (W251); Audi Q7 (4LB); VW Touareg (7L, 7P); Porsche Cayenne (9PA, 92A), Panamera (970); etc.

The adapter **KL-5501-1435 A** enables the safe reception of suspension struts with fork mounting on the lower support on the stationary spring compressor **KL-5501 / KL-5501 B**.

The adapter is mounted on the spring-compressing device instead of the plastic support **KL-5501-1431**.

Technical Data:

| | |
|------------|------|
| Adaptor Ø: | 57mm |
|------------|------|



KL-5501-193

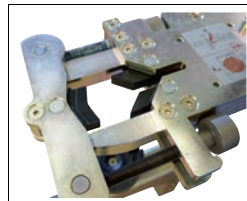
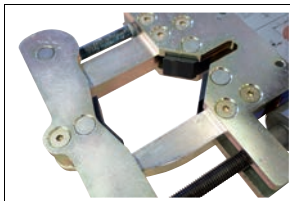
(Code 3244636)

Upgrade Kit, Opel/Vauxhall Insignia B

Application: Opel/Vauxhall Insignia B front axle.

The upgrade kit is required when changing strut springs or shock absorbers on Opel/Vauxhall Insignia B.

Designed to be used in conjunction with the stationary spring compressor **KL-5501**.



KL-5501-191

(Code 3244032)

Conversion Kit, Strut-Holding Clamp, long

The **KL-5501-191** conversion kit upgrades the stationary spring compressor **KL-5501** by making it also suitable for use on complex suspension strut systems where the damper tube has a very small contact surface.

Note:

By using **KL-5501-191** and **KL-5501-192**, **KL-5501** can be converted to **KL-5501 B**.



KL-5501-192

(Code 3244059)

Conversion Kit for Supporting Column Assembly

The conversion kit **KL-5501-192** upgrades the **KL-5501** stationary spring compressor by extending the adjustment range of the supporting column assembly.

Note:

By using **KL-5501-191** and **KL-5501-192**, **KL-5501** can be converted to **KL-5501 B**.



KL-9002 SP E (Code 2909499)

Spring Compressor, in a Foam Insert

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.

Alternative tools: W 203 589 01 31 00, 31 3 340, VAS 6046

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 with protective inserts in size 1 and 2 designed for spring diameters of from 85 (inside) - 170 (outside) mm.

Additional jaws for spring Ø of 60 (inside) - 205 (outside) mm are available as accessories.accessories.

Max. Load Capacity 27,500N *

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

The unique universal spring compressor

- which, due to a **special latching system**, allows the span (distance between jaws) to be adjusted from a minimum distance of **40mm** to a maximum distance 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 decompressed and/or replaced. (e.g.on 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 decompression process once the maximum end of travel has been reached - thus eliminating the risk of damage to the spring compressor;
- which enables the **plastic protective inserts** protecting the coating of the spring to be screw-connected to the jaws. This is very important to prevent spring failure/ breakage caused by notches and corrosion;
- which is suitable for almost any MacPherson suspension/damper strut systems, as well as for many other wishbone suspensions - thanks to a wide range of jaws available.

Thanks to the interaction of special high-precision components and the use of wear-resistant nitrided steel, the compressor 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.

Recommended Accessory: KL-4999-1395 Plastic Storage Case

Technical Data:

| Base body | | |
|-----------|---|----------|
| L min. | Minimum overall length | 475mm |
| L max. | Maximum overall length | 715mm |
| A | Working Travel (piston stroke) | 305mm |
| SPF | Spindle freewheel at | 735mm |
| S min. I | Minimum span (I) (distance between jaws) | 40mm |
| S min. II | Minimum span (II) (distance between jaws) | 72mm |
| S max. I | Maximum span (I) (distance between jaws) | 328mm |
| S max. II | Maximum span (II) (distance between jaws) | 361mm |
| | Maximum load capacity (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 and 2 | 13.4kg |

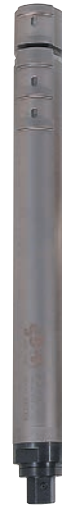
Scope of Delivery: KL-9002 SP E Spring Compressor, in a Foam Insert

| 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-4999-1322 | Foam Insert | 1 |

KL-9002 Spring Compressor

Like the **KL-9002 SP**, however, supplied without plastic protective inserts

9 pcs.



Advantages:

- Jaw-mounting device with automatic self-locking mechanism.
- Adjustable jaw-opening device.
- Drive features an additional auxiliary drive.
- Automatic free-wheel of the spindle.
- Also suitable for use on conical springs.
- Comes with plastic protective inserts.

Note:

For the storage of the foam insert in the Modulo Workstation, the **KL-4999-1325** drawer insert adaptor will be needed.

Note:

Additional jaws for springs with a Ø of from 60 (inside) to 205 (outside) mm are available as accessories.



4 pcs.



KL-9001-10 SP

(Code 2480034)

Pair of Jaws with Protective Inserts, Size 0

Universal application. For example:

Front axle: Mazda 6 (GH); etc.

Rear axle: Audi A1 (8X); VW Passat (357), up!, Scirocco (137); Seat Ibiza (6J); Škoda Superb (3T); BMW 6 Series (E63), X3 (F25); Citroën C1 (PM/PN), C2 (JM); Fiat 500L (351), Panda (312); Ford Fiesta (VI), B-Max (JK); Hyundai i30 (GD); Mini Cabrio (R57); Mitsubishi Lancer (VIII); Peugeot 508 (8D); Renault Clio (IV); etc.

Pair of special jaws with closed attachment ring.

The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 60mm (inside) |
| For spring Ø up to: | 120mm (outside) |
| Weight (Pair): | 2.8kg |

Necessary Accessories:

KL-9002-100 Compressor Base Body (included in **KL-9002 SP**)

Scope of Delivery:

KL-9001-10 SP Pair of Jaws with Protective Inserts, Size 0

| Part No. | Description | Qty |
|------------|------------------------------------|-----|
| KL-9001-10 | Pair of Jaws, Size 0 | 1 |
| KL-9001-20 | Pair of Protective Inserts, Size 0 | 1 |



4 pcs.



KL-9001-11 SP

(Code 2480050)

Pair of Jaws with Protective Inserts, Size 1

Universal application. For example:

Front axle: Audi A1 (8X), A3 (8P), TT (8J), Q5 (8R); VW Golf (5G), Passat (357), up!, Scirocco (137), Arteon (3H), Sharan (7N), Touran (1T3); Seat Exeo (3R), Ibiza (6J); Škoda Superb (3T), Kodiaq (NS7); BMW 2 Series (F45), 5 Series (F10), X5 (E70); Mercedes B-Class (W245); Citroën C1 (PM/PN), C2 (JM); Fiat 500L (351), Bravo (198), Panda (169, 312); Ford Fiesta (VI), B-Max (JK); Mazda 2 (DE); Mini Cooper (R56); Opel Astra (J), Insignia (A), Mokka (J13); Peugeot 207 (WA/WC/WD), 208 (CA/CC); Renault Clio (IV), Twingo (II); Volvo V70 (135); etc.

Rear axle: BMW 5 Series (F10); Chrysler PT Cruiser; Mini Cooper (R56); Opel Astra (J), Mokka (J13); Peugeot 207 (WA/WC/WD); Renault Twingo (II); Volvo V70 (135); etc.

Alternative tool: W 163 589 00 63 00, W 168 589 02 63 00, W 210 589 10 63 00

Pair of special jaws with closed attachment ring.

The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 85mm (inside) |
| For spring Ø up to: | 155mm (outside) |
| Weight (Pair): | 3.5kg |

Necessary Accessories:

KL-9002-100 Compressor Base Body (included in **KL-9002 SP**)

Scope of Delivery:

KL-9001-11 SP Pair of Jaws with Protective Inserts, Size 1

| Part No. | Description | Qty |
|------------|------------------------------------|-----|
| KL-9001-11 | Pair of Jaws, Size 1 | 1 |
| KL-9001-21 | Pair of Protective Inserts, Size 1 | 1 |



4 pcs.



KL-9001-12 SP

(Code 2480069)

Pair of Jaws with Protective Inserts, Size 2

Universal application. For example:

Front axle: BMW 6 Series (E63); Mercedes Citan (W415); Citroën Xsara (N1/N2); Fiat 500 (312), Croma (194), Punto (199), Ducato (250); Ford Ka (II), Focus (III), Mondeo (V), Galaxy (III); Hyundai i30 (GD); Mazda 3 (BL); Mini Cabrio (R57); Peugeot 508 (8D); etc.

Rear axle: Mercedes Citan (W415); Fiat Punto (199); etc.

Pair of special jaws with closed attachment ring.

The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 105mm (inside) |
| For spring Ø up to: | 170mm (outside) |
| Weight (Pair): | 3.9kg |

Necessary accessories:

KL-9002-100 Compressor Base Body (included in **KL-9002 SP**)

Scope of Delivery:

KL-9001-12 SP Pair of Jaws with Protective Inserts, Size 2

| Part No. | Description | Qty |
|------------|------------------------------------|-----|
| KL-9001-12 | Pair of Jaws, Size 2 | 1 |
| KL-9001-22 | Pair of Protective Inserts, Size 2 | 1 |



KL-9001-13 SP (Code 2480085) Pair of Jaws with Protective Inserts, Size 3

Universal application. For example: MAN TGE, TGL (Transporter).

Front axle: Mercedes V-Klasse (W447); VW-Crafter; Chrysler PT Cruiser; etc.

Rear axle: Mercedes V-Klasse (W447); etc.

Alternative tool: 99409H

Pair of special jaws with closed attachment ring.
The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Necessary Accessories:

KL-9002-100 Compressor Base Body (included in **KL-9002 SP**)

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 125mm (inside) |
| For spring Ø up to: | 205mm (outside) |
| Weight (Pair): | 4.3kg |

4 pcs.



Scope of Delivery:

KL-9001-13 SP Pair of Jaws with Protective Inserts, Size 3

| Part No. | Description | Qty |
|------------|------------------------------------|-----|
| KL-9001-13 | Pair of Jaws, Size 3 | 1 |
| KL-9001-23 | Pair of Protective Inserts, Size 3 | 1 |

KL-9001-33 SP (Code 2348675) Pair of Jaws with Protective Inserts, Size 1B

Universal application. For example:

Front axle: Audi Q7 (4L); Porsche Cayenne; VW Touareg, Amarok; etc.

Alternative tool: VAS 6046/3

Designed to compress and decompress front springs.
The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Necessary Accessories:

KL-9002-100 Compressor Base Body (included in **KL-9002 SP**)

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 90mm (inside) |
| For spring Ø up to: | 160mm (outside) |
| Weight (Pair): | 3.4kg |

4 pcs.



Scope of Delivery:

KL-9001-33 SP Pair of Jaws with Protective Inserts, Size 1B

| Part No. | Description | Qty |
|------------|-------------------------------------|-----|
| KL-9001-33 | Pair of Jaws, Size 1B | 1 |
| KL-9001-25 | Pair of Protective Inserts, Size 1B | 1 |

KL-9001-16 SP (Code 2480093) Pair of Jaws with Protective Inserts, Size 0, Extended Design

Universal application. For example:

Front axle: Audi A3 (8P), TT (8J); VW Golf (1K), Sharan (7N); Škoda Kodiaq (NS7); Mercedes B-Klasse (W245); Citroën C-Crosser; Mazda 3 (BL); Mitsubishi Outlander (II); etc.

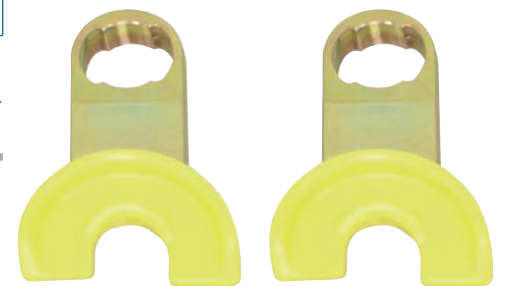
These jaws with an extended attachment axle (extended by approximately 30mm) are ideal for springs that are hard to reach. Thanks to the possibility of using an extended jaw in combination with a non-extended jaw, also conical springs can be compressed.

The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 55mm (inside) |
| For spring Ø up to: | 120mm (outside) |
| Weight (Pair): | 3.8kg |

4 pcs.



Necessary Accessories:

KL-9002-100 Compressor Base Body (included in **KL-9002 SP**)

Scope of Delivery:

KL-9001-16 SP Pair of Jaws with Protective Inserts, Size 0

| Part No. | Description | Qty |
|------------|---------------------------------------|-----|
| KL-9001-16 | Pair of Jaws, Size 0, Extended Design | 1 |
| KL-9001-20 | Pair of Protective Inserts, Size 0 | 1 |



KL-9001-17 SP

(Code 2347954)

Pair of Jaws with Protective Inserts, Size 1, Extended Design

Universal application. Essential for Pathfinder; Seat Arosa; VW Lupo (6X/6E), Touran (1T3); Mercedes etc.

Alternative tool: W 211 589 01 63 00, W 230 589 11 63 00

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.

The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Necessary Accessories:

KL-9002-100 Compressor Base Body (included in **KL-9002 SP**)

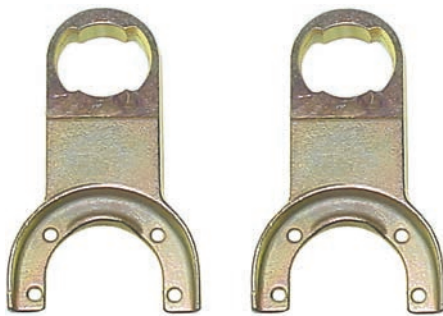
Scope of Delivery:

KL-9001-17 SP Pair of Jaws with Protective Inserts, Size 1

| Part No. | Description | Qty |
|------------|---------------------------------------|-----|
| KL-9001-17 | Pair of Jaws, Size 1, Extended Design | 1 |
| KL-9001-21 | Pair of Protective Inserts, Size 1 | 1 |

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 85mm (inside) |
| For spring Ø up to: | 155mm (outside) |
| Weight (Pair): | 4.4kg |



KL-9001-15

(Code 2347806)

Pair of Jaws, Size 5

Universal application. For example:

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.

Necessary Accessories:

KL-9002-100 Compressor Base Body (included in **KL-9002 SP**)

Scope of Delivery:

KL-9001-15 Pair of Jaws, Size 5

| Part No. | Description | Qty |
|--------------|----------------------|-----|
| KL-9001-1501 | Pair of Jaws Size. 5 | 2 |

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 70mm (inside) |
| For spring Ø up to: | 116mm (outside) |
| Weight (Pair): | 3.8kg |



KL-9001-32 SP

(Code 2348624)

Pair of Jaws with Protective Inserts, Size 1

Suitable for Audi A8 (armoured) rear axle.

Alternative tool: VAS 6046/1

Ideal for conical and hard-to-reach springs.

The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Necessary Accessories:

KL-9002-100 Compressor Base Body (included in **KL-9002 SP**)

Scope of Delivery:

KL-9001-32 SP Pair of Jaws with Protective Inserts, Size 1

| Part No. | Description | Qty |
|------------|------------------------------------|-----|
| KL-9001-32 | Pair of Jaws, Size 1 | 1 |
| KL-9001-25 | Pair of Protective Inserts, Size 1 | 1 |

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 90mm (inside) |
| For spring Ø up to: | 150mm (outside) |
| Weight: | 3.8kg |

KL-0015 SP (Code 2480328) (Universal) Spring Compressor with Protective Inserts

Universally suitable for strut suspensions. Comes with pairs of jaws in size 1N and 2N and the corresponding protective inserts for spring Ø of from 90 (inside) - 190 (outside) mm.

Alternative tool: 31 3 120, KM-6068, MKM-6068

Our universal spring compressor with extended working travel. The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Advantages:

- Self-locking mechanism of the sliding jaw mount.
- Approved by the German Employers' Liability Insurance Association.
- Also applicable to conical springs.
- Comes with plastic protective inserts

Note:

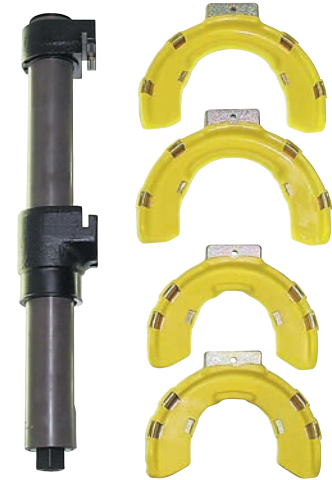
KL-0015 Spring Compressor, like the **KL-0015 SP**, however, supplied without plastic protective inserts.

Technical Data:

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

Note: Additional jaws for spring Ø 65 (inside) - 195 (outside) mm are available as accessories.

9 pcs.



Scope of Delivery:

KL-0015 SP Spring Compressor

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

KL-2000 SP (Code 2479931) Spring Compressor with Protective Inserts

Suitable for McPherson-type suspension struts with spring Ø 90 (inside) - 190 (outside) mm.

The **KL-2000 SP** spring compressor comes with the pairs of jaws **KL-1510 SP** (size 1N) and **KL-1520 SP** (size 2N), thus allowing the user to professionally remove/install right-hand wound coil springs (with a spring-Ø of 65 (inside) - 195 (outside) mm*) and shock absorbers on passenger car chassis systems.

The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Note:

KL-2000 Spring Compressor, like the **KL-2000 SP**, however, supplied without plastic protective inserts.

Technical Data:

| | |
|-----------------|--------------------|
| Jaw opening: | 45-290mm |
| Working travel: | 245mm |
| Overall length: | 410mm |
| Drive: | reversible ratchet |
| Max. load: | 8,500N |
| Breaking point: | 32,000N |
| Weight: | 9.4kg |

9 pcs.



* in conjunction with jaws available as accessories.

Scope of Delivery:

KL-2000 SP Spring Compressor with Protective Inserts

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

KL-1502-SP (Code 2458942) Pair of Jaws with Protective Inserts, Size 0C

Universal application. For example:

Front axle: BMW 5 Series (F10); Porsche 911 (991); Mazda 3 (BL); etc.

Rear axle: Audi A1 (8X), A3 (8P), TT (8J); VW Golf (5G), Passat (357), up!, Arteon (3H), Sharan (7N), Touran (1T3); Seat Ibiza (6J); Škoda Superb (3T), Kodiaq (NS7); BMW 5 Series (F10), 6 Series (E63), X3 (F25); Mercedes B-Class (W245); Porsche 911 (991); Citroën C-Crosser, C1 (PM/PN), C2 (JM); Fiat 500L (351), Bravo (198), Panda (312); Ford Fiesta (VI), B-Max (JK); Mazda 2 (DE); Mini Cooper (R56); Mitsubishi Lancer (VIII); Peugeot 208 (CA/CC), 508 (8D); Renault Clio (IV); etc.

Alternative tool: 204-215, 31 3 125, 951-2897, 951-2912, VAG1752/3, VAG1752/3 A

Pair of special jaws for a professional removing and installing of right-hand wound coil springs and shock absorbers on passenger car chassis systems.

The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

4 pcs.



Necessary accessories:

KL-0015-100 Compressor Base Body (included in **KL-0015 SP**) or **KL-2000-100** Compressor Base Body (included in **KL-2000 SP**)

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 65mm (inside) |
| For spring Ø up to: | 115mm (outside) |
| Weight (Pair): | 1.45kg |

Scope of Delivery: KL-1502-SP Pair of Jaws

| Part No. | Description | Qty |
|-----------|-------------------------------------|-----|
| KL-1502 | Pair of Jaws, Size 0C | 1 |
| KL-1502-S | Pair of Protective Inserts, Size 0C | 1 |



4 pcs.

KL-1510-SP

(Code 1919903)

Pair of Jaws with Protective Inserts, Size 1N

Universal application. For example:

Front axle: Audi A3 (8P), TT (8J); VW Golf (5G), Passat (357), up!, Scirocco (137), Arteon (3H), Sharan (7N), Touran (1T3); Seat Exeo (3R), Ibiza (6J); Škoda Superb (3T), Kodiaq (NS7); BMW 2 Series (F45), X5 (E70); Mercedes B-Class (W245); Citroën C1 (PM/PN), C2 (JM), Xsara (N1/N2); Fiat 500 (312), 500L (351), Bravo (198), Croma (194), Panda (169, 312), Punto (199); Ford Fiesta (VI), Ka (II), Focus (III), B-Max (JK); Mazda 2 (DE), 3 (BL); Mini Cooper (R56); Opel Astra (J), Insignia (A), Mokka (J13); Peugeot 207 (WA/WC/WD), 208 (CA/CC); Renault Clio (IV), Twingo (II); Volvo V70 (135); etc.

Rear axle: Audi A1 (8X); VW Scirocco (137); Chrysler PT Cruiser; Fiat Punto (199), Qubo (225); Hyundai i30 (GD); Mini Cabrio (R57); Opel Astra (J), Insignia (A), Mokka (J13); Peugeot 207 (WA/WC/WD); Renault Twingo (II); Volvo V70 (135); etc.

Alternative tool: 205-318, 31 3 122, 951-2913, VAG1752/4

Pair of special jaws for a professional removing and installing of right-hand wound coil springs and shock absorbers on passenger car chassis systems.

The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Necessary Accessories:

KL-0015-100 Compressor Base Body (included in **KL-0015 SP**) or **KL-2000-100** Compressor Base Body (included in **KL-2000 SP**)

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 90mm (inside) |
| For spring Ø up to: | 160mm (outside) |
| Weight (Pair): | 1.9kg |

Scope of Delivery:

KL-1510-SP Pair of Jaws with Protective Inserts, Size 1N

| Part No. | Description | Qty |
|-----------|-------------------------------------|-----|
| KL-1510 | Pair of Jaws, Size 1N | 1 |
| KL-1510-S | Pair of Protective Inserts, Size 1N | 1 |



4 pcs.

KL-1520-SP

(Code 1996894)

Pair of Jaws with Protective Inserts, Size 2N

Universal application. For example:

Front axle: BMW 3 Series (F30); Mercedes Citan (W415), V-Class (W447); Chrysler PT Cruiser; Fiat Ducato (250); Ford Galaxy (III); Hyundai i30 (GD); Mini Cabrio (R57); Mitsubishi Lancer (VIII); Peugeot 508 (8D); etc.

Rear axle: Mercedes Citan (W415), V-Klasse (W447); etc.

Alternative tool: 14-042-01-2, 204-167-01, 31 3 123, 951-2914, VAG1752/5

Pair of special jaws for a professional removing and installing of right-hand wound coil springs and shock absorbers on passenger car chassis systems.

The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Necessary Accessories:

KL-0015-100 Compressor Base Body (included in **KL-0015 SP**) or **KL-2000-100** Compressor Base Body (included in **KL-2000 SP**)

Scope of Delivery:

KL-1520-SP Pair of Jaws with Protective Inserts, Size 2N

| Part No. | Description | Qty |
|-----------|-------------------------------------|-----|
| KL-1520 | Pair of Jaws, Size 2N | 1 |
| KL-1520-S | Pair of Protective Inserts, Size 2N | 1 |

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 125mm (inside) |
| For spring Ø up to: | 190mm (outside) |
| Weight (Pair): | 2.1kg |



2 pcs.

KL-1530

(Code 1932578)

Pair of Jaws, Size 3N

Universal application.

Pair of special jaws for a professional removing and installing of right-hand wound coil springs and shock absorbers on passenger car chassis systems.

Necessary Accessories:

KL-0015-100 Compressor Base Body (included in **KL-0015 SP**) or **KL-2000-100** Compressor Base Body (included in **KL-2000 SP**)

Technical Data:

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

Scope of Delivery:

KL-1530 Pair of Jaws, Size 3N

| Part No. | Description | Qty |
|----------|---------------|-----|
| KL-1531 | Jaws, Size 3N | 2 |



KL-1525-SP (Code 2459612) Jaw with Protective Insert, Size 2B

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

Special jaw for a professional removing and installing of right-hand wound coil springs and shock absorbers on passenger car chassis systems. The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 135mm (inside) |
| For spring Ø up to: | 195mm (outside) |
| Weight (Piece): | 1kg |

2 pcs.



Necessary Accessories:

KL-0015-100 Compressor Base Body (included in **KL-0015 SP**) or **KL-2000-100** Compressor Base Body (included in **KL-2000 SP**)

Scope of Delivery:

KL-1525-SP Jaw with Protective Insert, Size 2B

| Part No. | Description | Qty |
|-----------|----------------------------|-----|
| KL-1525 | Jaws, Size 2B | 1 |
| KL-1521-S | Protective Insert, Size 2N | 1 |

KL-1512-SP (Code 2459159) Pair of Jaws with Protective Inserts, Size 1A

Universal application. For example:

Front axle: Audi A1 (8X), A4 (8K), A5 (8T), Q5 (8R); etc.

Rear axle: Audi A8; etc.

Alternative tool: VAG1752/7

Pair of special jaws for a professional removing and installing of right-hand wound coil springs and shock absorbers on passenger car chassis systems. The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 90mm (inside) |
| For spring Ø up to: | 145mm (outside) |
| Weight (Pair): | 2.4kg |

4 pcs.



Necessary Accessories:

KL-0015-100 Compressor Base Body (included in **KL-0015 SP**) or **KL-2000-100** Compressor Base Body (included in **KL-2000 SP**)

Scope of Delivery:

KL-1512-SP Pair of Jaws with Protective Inserts, Size 1A

| Part No. | Description | Qty |
|-----------|-------------------------------------|-----|
| KL-1512 | Pair of Jaws, Size 1A | 1 |
| KL-1512-S | Pair of Protective Inserts, Size 1A | 1 |

KL-1514-SP (Code 2141493) Pair of Jaws with Protective Inserts, Size 1B

Suitable for Audi A8 front axle.

Alternative tool: VAG1752/6

Pair of special jaws for a professional removing and installing of right-hand wound coil springs and shock absorbers on passenger car chassis systems. The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 90mm (inside) |
| For spring Ø up to: | 145mm (outside) |
| Weight (Pair): | 2.2kg |

4 pcs.



Necessary Accessories:

KL-0015-100 Compressor Base Body (included in **KL-0015 SP**) or **KL-2000-100** Compressor Base Body (included in **KL-2000 SP**)

Scope of Delivery:

KL-1514-SP Pair of Jaws with Protective Inserts, Size 1B

| Part No. | Description | Qty |
|-----------|-------------------------------------|-----|
| KL-1514 | Pair of Jaws with, Size 1B | 1 |
| KL-1514-S | Pair of Protective Inserts, Size 1B | 1 |

KL-1516-SP (Code 2459337) Pair of Jaws with Protective Inserts, Size 1C

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

Alternative tool: VAG1752/16

Pair of special jaws for a professional removing and installing of right-hand wound coil springs and shock absorbers on passenger car chassis systems. The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 90mm (inside) |
| For spring Ø up to: | 135mm (outside) |
| Weight (Pair): | 2.2kg |

4 pcs.



Necessary Accessories:

KL-0015-100 Compressor Base Body (included in **KL-0015 SP**) or **KL-2000-100** Compressor Base Body (included in **KL-2000 SP**)

Scope of Delivery:

KL-1516-SP Pair of Jaws with Protective Inserts, Size 1C

| Part No. | Description | Qty |
|-----------|-------------------------------------|-----|
| KL-1516 | Pair of Jaws with, Size 1C | 1 |
| KL-1516-S | Pair of Protective Inserts, Size 1C | 1 |



4 pcs.



KL-1518 A SP

(Code 3038998)

Pair of Jaws with Protective Inserts, Size 1D

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

Pair of special jaws for a professional removing and installing of right-hand wound coil springs and shock absorbers on passenger car chassis systems. The anti-slip protective inserts prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Necessary Accessories:

KL-0015-100 Compressor Base Body (included in **KL-0015 SP**) or

KL-2000-100 Compressor Base Body (included in **KL-2000 SP**)

Technical Data:

| | |
|---------------------|-----------------|
| For spring Ø from: | 80mm (inside) |
| For spring Ø up to: | 115mm (outside) |
| Weight (pair): | 1.9kg |

Scope of Delivery:

KL-1518 A SP Pair of Jaws with Protective Inserts, Size 1D

| Part No. | Description | Qty |
|-------------|-----------------------------|-----|
| KL-1519 A | Jaw, Size 1D | 2 |
| KL-1519 A S | Protective Inserts, Size 1D | 2 |



4 pcs.



KL-1540

(Code 2459698)

Jaw Set (4-piece set), Size 4

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

Alternative tool: VAG1752/15

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:

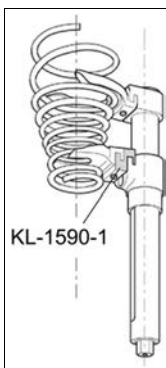
KL-1540 Set of Jaws (4 piece set) Size 4

| 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 |

Necessary Accessories:

KL-0015-100 Compressor Base Body (included in **KL-0015 SP**) or

KL-2000-100 Compressor Base Body (included in **KL-2000 SP**)



KL-1590-1



2 pcs.



KL-1590-2

(Code 2159376)

Adaptor Set

Universally suitable.

Alternative tool: VAG1752/9

Used to extend the jaws, for example, when compressing the rear axle spring on **VW Lupo** or barrel springs.

Scope of Delivery:

KL-1590-2 Adaptor Set

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



KL-0055-60

(Code 2380471)

Holding Fixture for Suspension Struts

Suitable for MacPherson suspension struts, shock absorbers and steering gears.

Alternative tool: KM-6066, VAS 1752/20

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.

Suspension struts should NEVER be directly clamped in a vice for servicing and assembly work! (Risk of deformation).

KL-0033-10 E (Code 3276317) (Patented)

Compact Internal Coil Spring Compressor, Size 2A, in a Foam Insert

Universally applicable to wishbone and independent, multi-link suspension systems as found in vehicles from VW-Audi, Seat, Porsche, Mercedes, BMW, Ford and in many more. Essential tool for use on the rear axle of Audi vehicles. For example: Audi A4 B8 (8K), A5 (8T), A6 (C7 / 4G), A7 (C7 / 4G), Q5 (8R).

The internal coil spring compressor allows you to quickly and safely remove and install coil springs on wishbone and independent, multi-link suspensions in situ on the vehicle.

Thanks to the particularly compact design, the compressor base body can be easily inserted into the spring from below, through the wishbone - even with VAG vehicles having a very small lower wishbone access hole (of approx. 34mm Ø).

As a result, the loosening of axle components and follow-up wheel alignments are no longer necessary.

Sturdy and robust design ensures a high level of operational safety.

The unique 3-point safety interlock mechanism and the special anti-rotation profile prevent the pressure plates from twisting during the compression process and, thus, the coil spring from coming loose and falling off the spring compressor.

Simple and safe mounting of the spring compressor - no need for additional locking, awkward or cumbersome installation work is avoided!

Another special feature of the pressure plates are the anti-slip protective inserts which prevent the spring from unwinding itself out of the spring compressor and also avoid damage to the sensitive coating of the spring.

Advantages:

- Particularly compact design.
- Universally applicable to coil springs on wishbone and independent, multi-link suspension systems.
- THE ideal tool for VAG vehicles having a very small access hole in the wishbone.
- Eliminates the need for loosening axle components and follow-up wheel alignments.
- Substantial time savings.
- High level of safety when compressing the spring - thanks to the unique 3-point safety interlock mechanism.
- No additional locking necessary - thanks to the safe and simple lock mechanism!
- No risk of the pressure plates twisting - thanks to the special anti-rotation profile.
- No risk of damaging the sensitive spring surface finish - thanks to the anti-slip protective inserts.
- No risk of the spring unwinding itself out of the spring compressor - thanks to the anti-slip protective inserts.

Recommended Accessory: KL-0033-300 E Holding-Down Tool Kit, in a Foam Insert

Tool Storage System: KL-4990-9372 Plastic Storage Case

KL-0033-10 Internal Coil Spring Compressor

Like the KL-0033-10 E, however, supplied without Foam Insert.

4 pcs.



Technical Data:

| | |
|---------------------|--------------------------------------|
| Max. load capacity: | 30,000N |
| Breaking point: | 120,000N |
| Working travel: | 100mm |
| Opening width: | 116 - 216mm |
| Overall length: | 178 - 278mm |
| Drive: | 19mm external hex + 8mm internal hex |
| Weight: | 3.5kg |

Scope of Delivery:

KL-0033-10 E Compact Internal Coil Spring Compressor

| Part No. | Description | Qty |
|----------------|---|-----|
| KL-0033-100 | Compressor Base Body | 1 |
| KL-0033-1101 | Pressure Plate with Lock | 1 |
| KL-0033-1102 | Pressure Plate with Anti-Rotation Profile | 1 |
| IN 19 LK 8-140 | Screwdriver bit socket | 1 |
| KL-0033-1090-1 | Foam Insert | 1 |





KL-0033-16

(Code 3279642)

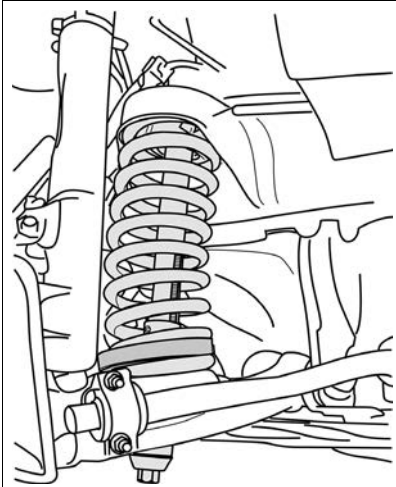
Pair of Pressure Plates, Size 0A

Universal application. Particularly suitable for use on Mercedes-Benz E-Class (W211, W212), C-Class (W204), GLA (X156), GLK (X204); Ford Focus III (MK3); BMW 1 Series (E81) as well as Audi.

The pair of pressure plates, in conjunction with the necessary accessories, allows you to quickly and safely remove and install coil springs on wishbone and independent, multi-link suspensions in situ on the vehicle. The unique 3-point safety interlock mechanism and the special anti-rotation profile prevent the pressure plates from twisting during the compression process and, thus, the coil spring from coming loose and falling off the spring compressor.

Necessary Accessories (included in **KL-0033-10 E**):

KL-0033-100 Compact Compressor Base Body,
IN19LK8-140 Bit Socket, 8mm waf



Technical Data:

| | |
|-------------------------------------|------------|
| Applicable to spring Ø: | 95 - 110mm |
| Gradient of pressure plate to 240°: | 6mm |
| Weight: | 1.5kg |

Scope of Delivery:

KL-0033-16 Pair of Pressure Plates, Size 0A

| Part No. | Description | Qty |
|--------------|---|-----|
| KL-0033-1601 | Pressure Plate, Size 0A, with interlock mechanism | 1 |
| KL-0033-1602 | Pressure Plate, Size 0A, with anti-rotation profile | 1 |



KL-0033-300 E

(Code 3275205)

Holding-Down Tool Kit, in a Foam Insert

Universally applicable to wishbone and independent, multi-link suspension systems as found in vehicles from VW-Audi, Seat, Porsche, Mercedes, BMW, Ford and in many more.

Essential tool for use on the rear axle of VW-Audi, Porsche and Mercedes-Benz vehicles. For example: Audi A4 (8K), A5 (8T), A6 (C6), Q5 (8R), Q7 (4M); Seat Exeo (3R); VW Touareg; Porsche Cayenne (PO536), Macan; Mercedes-Benz E-Klasse (W211, W212), C-Klasse (W204), GLA (X156), GLK (X204); etc.

The holding-down tool kit is intended to ease the removal and installation of coil springs on wishbone and independent, multi-link suspensions. Particularly recommended for use with our **KL-0033-10 E** Compact Internal Coil Spring Compressor.

Insert the holding-down tool between the upper control arm and the vehicle body. Then, pre-tighten it slightly. The tool is designed to keep the suspension in position while the coil spring is being compressed. This reduces the compression travel and greatly facilitates the removal of the spring.

Tool Storage System:

KL-4990-9224 Plastic Storage Case

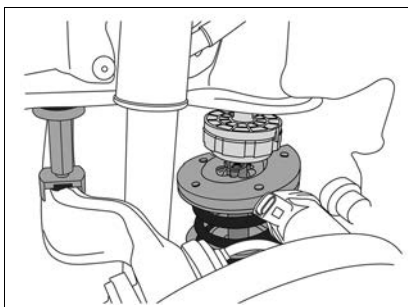
Technical Data:

| | |
|---------------------------------------|-------------|
| Drive: | 22mm waf |
| Diameter of support: | Ø 40/50mm |
| Clamping range (short adjusting nut): | 80 - 113mm |
| Clamping range (long adjusting nut): | 105 - 138mm |

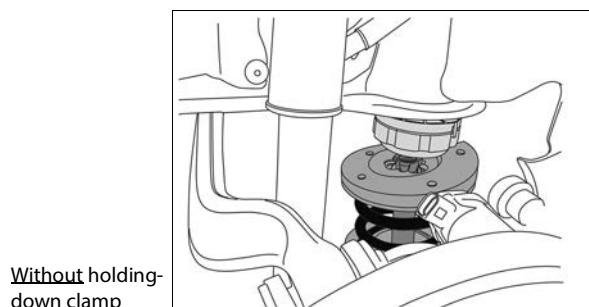
Scope of Delivery:

KL-0033-300 E Holding-Down Tool Kit, in a Foam Insert

| Part No. | Description | Qty |
|----------------|----------------------|-----|
| KL-0033-3001 | Support Bracket | 1 |
| KL-0033-3002 | Support, Ø 50mm | 1 |
| KL-0033-3003 A | Support, Ø 40mm | 1 |
| KL-0033-3004 | Adjusting Nut, short | 1 |
| KL-0033-3005 | Adjusting Nut, long | 1 |
| KL-0033-3090-1 | Foam Insert | 1 |



With holding-down clamp



Without holding-down clamp



KL-0025-20 E (Code 3402495) (Patented)

Spring Compressor (Short Design) with Pressure Plates Size 1+2, in a Foam Insert

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.

Alternative tool: 99415V, W 140 589 00 31 00, W 202 589 02 31 00

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

Tool Storage System:

KL-4999-1396 Plastic Storage Case

KL-0025-2 Spring Compressor

Like the **KL-0025-20 E**, however, supplied without Foam Insert.

Technical Data

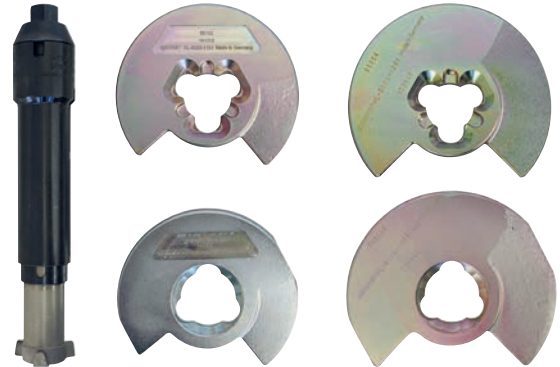
| | |
|---------------------------|---------------------|
| Max. load capacity: | 30,000N |
| Span width (Jaw opening): | 110-287mm |
| Working travel: | 177mm |
| Overall length: | 233mm |
| Drive: | Size (waf) 19mm hex |
| Breaking point: | 120,000N |

Scope of Delivery:

KL-0025-20 E Spring Compressor (Short Design) with Pressure Plates Size 1+2

| Part no. | Description | Qty |
|--------------|---------------------------------|-----|
| KL-0025-200 | Compressor Base Body | 1 |
| KL-0025-11 | Pair of Pressure Plates, Size 1 | 1 |
| KL-0025-12 | Pair of Pressure Plates, Size 2 | 1 |
| KL-4999-1323 | Foam Insert | 1 |

5 pcs.



KL-0025-11 (Code 1853295)

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; Škoda; Ford; etc.

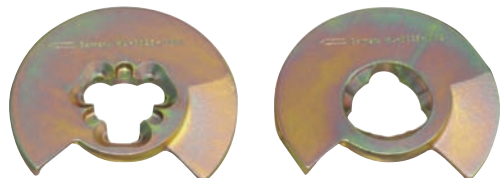
Alternative tool: W 202 589 13 63 00, 99415V

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: | 240° = 6mm |
| Weight: | 1.5kg |

2 pcs.

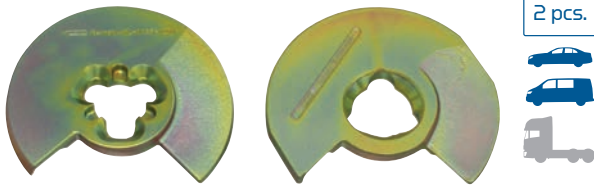


Necessary Accessories: (included in **KL-0025-2 E**)
KL-0025-200 Compressor Base Body

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 (Code 1853317)

Pair of Pressure Plates, Size 2

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

Alternative tool: W 000 589 81 63 00, W 140 589 07 63 00, W 202 589 14 63 00

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:

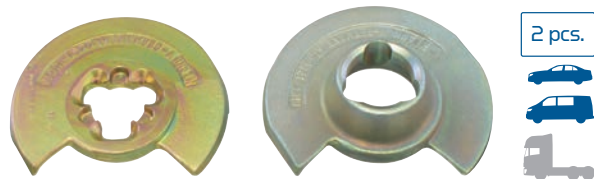
| | |
|--------------------|--------------------|
| Compression range: | Spring Ø: 20-140mm |
| Incline: | 240° = 6mm |
| Weight: | 2.1kg |

Necessary Accessories: (included in **KL-0025-2 E**)
KL-0025-200 Compressor Base Body

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-0025-15 (Code 2431203)

Pair of Pressure Plates, Size 5

Universal application. Suitable for Mercedes W124 4-Matic front axle.

Alternative tool: W 000 589 80 63 00

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: | 270°=5mm |
| Weight: | 2kg |

Necessary Accessories: (included in **KL-0025-2 E**)
KL-0025-200 Compressor Base Body

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 (Code 1751425)

Pair of Pressure Plates, Size 0A

Universal application. Suitable for Mercedes C-Class (W203 / W204), CLK (W209); E-Class (W211 4-matic / W212), GLK (X204), SLK (171); BMW 1 Series (E87, F20) and 3 Series (E90, F30); Hyundai i30 (GD) rear axle.

Alternative tool: W 202 589 14 63 00, W 211 589 03 63 00

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:

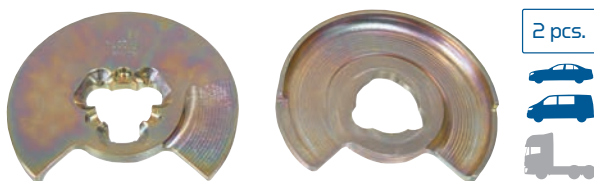
| | |
|--------------------|--------------------|
| Compression range: | Spring Ø: 95-110mm |
| Incline: | 240° = 6mm |
| Weight: | 1.4kg |

Necessary Accessories: (included in **KL-0025-2 E**)
KL-0025-200 Compressor Base Body

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 (Code 2432927)

Pair of Pressure Plates, M-Class

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

Alternative tool: W 164 589 01 63 00

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: 110-13mm |
| Incline: | 270° = 7mm |
| Weight: | 1.9kg |

Necessary Accessories: (included in **KL-0025-2 E**)
KL-0025-200 Compressor Base Body

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 |

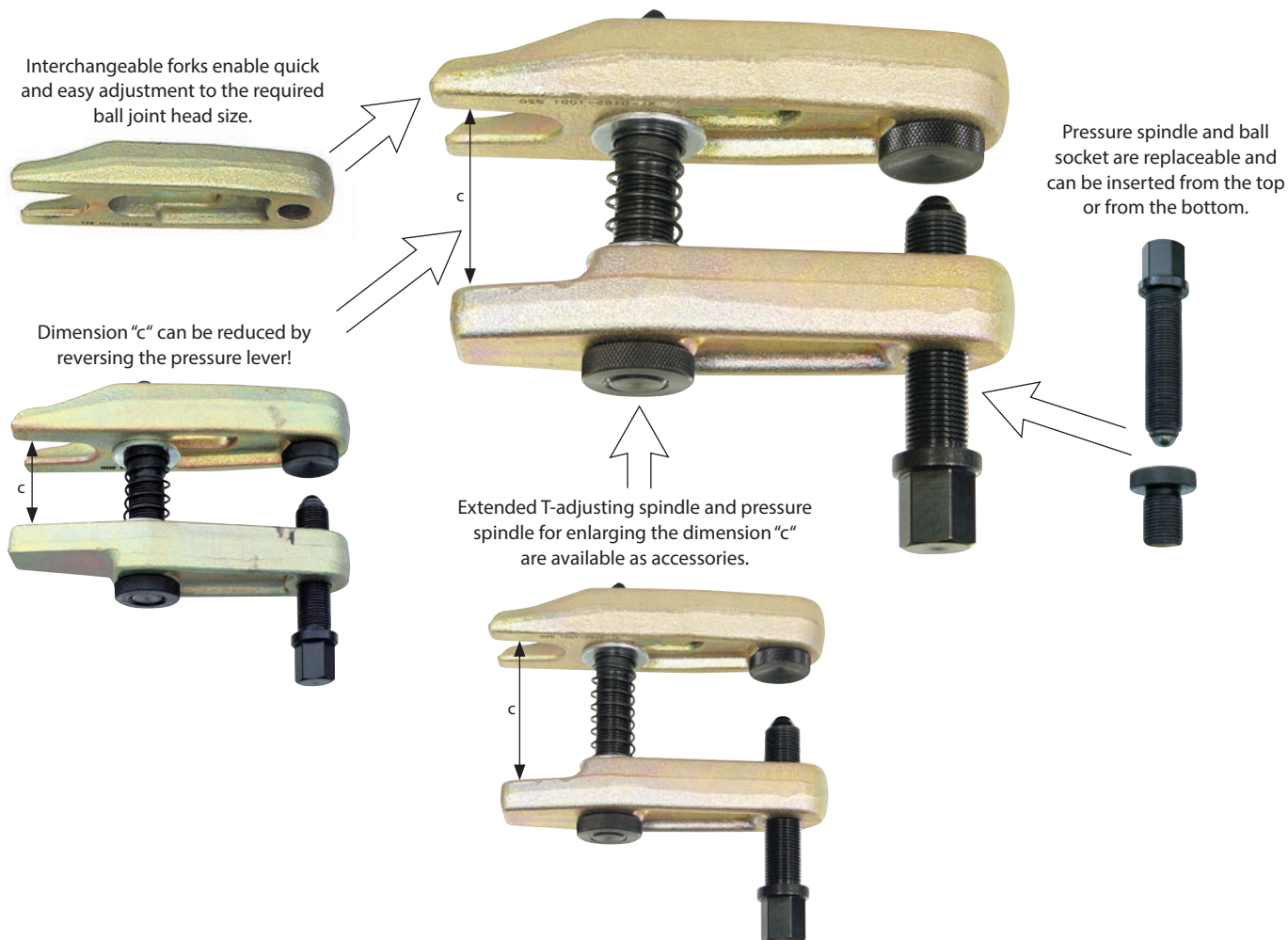


2. Axle Repair Tools (Steering, Support Joints, Wheel Bearings, etc.)



KL-0165-Series

Ball Joint Extractors (Patented)



Advantages:

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

2.1 Steering Geometry

KL-0165-1 (Code 1753592) Ball Joint Extractor Set, Size 1 and 2

Universally applicable to light and commercial vehicles/vans like VW-Audi, Seat, Škoda, Mercedes, BMW, Renault, Peugeot, Fiat, Opel, Ford, Porsche etc.

Alternative tool: W 124 589 02 33 00, W 201 589 01 33 00, W 201 589 14 33 00, W 202 589 02 33 00, W 124 589 03 33 00, W 140 589 00 63 00, 31 3 240

An indispensable tool set for the quick and easy separation of ball joint connections in axle/suspension and steering systems.

Advantage:

- Variable through separator forks
- High stability
- Ideal release pressure point and adjustable tilting adjustment

Recommended Accessory:

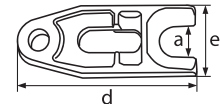
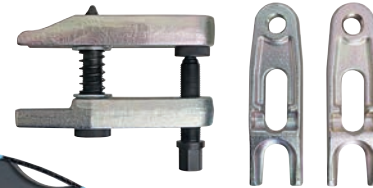
1993 U-20 Reversible Ratchet 1/2"

Scope of Delivery:

KL-0165-1 Ball Joint Extractor Set

| Part No. | Description | Qty |
|--------------|---|-----|
| KL-0165-100 | Base Tool without Fork | 1 |
| KL-0165-1001 | Fork - a=20mm - e=50mm - d=165mm (results KL-0165-10) | 1 |
| KL-0165-1101 | Fork - a=22mm - e=50mm - d=165mm (results KL-0165-11) | 1 |
| KL-0165-1201 | Fork - a=24mm - e=50mm - d=165mm (results KL-0165-12) | 1 |
| KL-0165-1301 | Fork - a=27mm - e=50mm - d=165mm (results KL-0165-13) | 1 |
| KL-0165-1401 | Fork - a=30mm - e=50mm - d=165mm (results KL-0165-14) | 1 |
| KL-0165-2001 | Fork - a=22mm - e=60mm - d=165mm (results KL-0165-20) | 1 |
| KL-0165-2101 | Fork - a=24mm - e=60mm - d=165mm (results KL-0165-21) | 1 |
| KL-0165-2201 | Fork - a=26mm - e=60mm - d=165mm (results KL-0165-22) | 1 |
| KL-0165-2301 | Fork - a=30mm - e=60mm - d=165mm (results KL-0165-23) | 1 |
| KL-0165-1090 | Plastic Storage Case | 1 |

10 pcs.

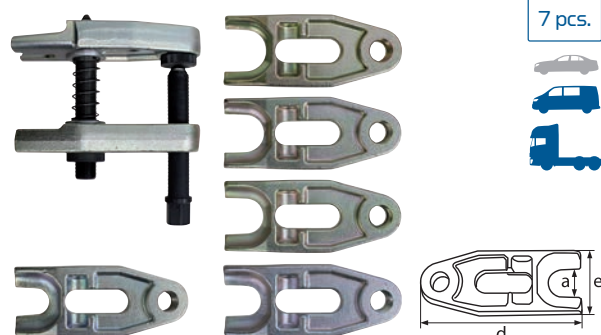


Applications Ball Joint Extractor

| Part No. Puller | Part No. Fork | Especially Suitable for |
|-----------------|---------------|--|
| KL-0165-10 | KL-0165-1001 | Track Rod Joint: Audi A6 (4A), TT (8J); VW Golf (IV); Skoda Rapid (NH1/3); Renault Clio (IV); Hyundai i30 (GD); Ford Focus II; Citroen C3 II (SC_); etc. Supporting Joint/Guide Joint: Peugeot 307; etc. |
| KL-0165-11 | KL-0165-1101 | Track Rod Joint: Peugeot 307, 407; Ford Fiesta V + VI (JH/D, CB1/CCN), Kuga I, B-Max (JK); Opel Zafira B (A05), Corsa C (X01), Antara (L07); Mazda 3 (BL); Skoda Roomster (5J7); etc. |
| KL-0165-12 | KL-0165-1201 | Track Rod Joint: Audi Q5 (8RB); BMW X3 (F25), X5 (E70); Citroen C1 (PM, PN); Fiat Stilo (192), 500 / C (312), Croma (194); Ford KA (RU8); Kia Picanto (SA); Mercedes E-Class (W212); Nissan Qashqai (J10); Peugeot 208 (CA, CC), 3008 (DU), 4007 (VU, VV), 5008 (DU, DE); Renault Twingo II (CN0), Megane III, Subaru Impreza (GR, GH, G3, GE, GV); Toyota Yaris (P9); VW Golf IV / VII, Scirocco III (137, 138), Tiguan (5N_), Touran (1T1/2/3), up!; etc. |
| KL-0165-13 | KL-0165-1301 | Track Rod Joint: BMW 2 Series (F45), 3 Series (E90), 5 Series (E60), 6 Series (E63); Mercedes Sprinter (906); Opel Astra J (P10); Renault Megane IV; VW LT; etc. Supporting Joint/Guide Joint: VW Crafter (SX, SY, SZ); etc. |
| KL-0165-14 | KL-0165-1401 | Track Rod Joint: Ford S-Max (WA6), Focus III; Mazda 6 (GH); Mercedes Vito (W639); Peugeot 508 (8D, 8E); VW Sharan (7N1/2), T4; etc. Supporting Joint/Guide Joint: BMW X3 (E83), X5 (E70); Citroen C4 I; Mercedes A-Class (W176); Peugeot 5008 (DU, DE); Seat Exeo (3R2); etc. |
| KL-0165-20 | KL-0165-2001 | Track Rod Joint: Mercedes SLK (W170), C-Class (W202); Ford Fiesta V (JH, JD); Opel Astra H (A04); VW Arteon (3H7/8); etc. Supporting Joint/Guide Joint: Volvo V70 III (135); etc. |
| KL-0165-21 | KL-0165-2101 | Track Rod Joint: BMW 3 Series (E46); Renault Trafic II (JL, FL, EL); etc. |
| KL-0165-22 | KL-0165-2201 | Track Rod Joint: Audi Q3 (8U); BMW 2 Series (F45), 5 Series (F10); Ford Transit (F_); Mercedes Sprinter (W906), E-Class (W210, W212); Toyota Aygo (B1); VW T5; Porsche Cayenne; etc. |
| KL-0165-23 | KL-0165-2301 | Track Rod Joint: BMW i3 (I01); Mazda 3 (BK); Mercedes G-Class (W461, W463), V-Class (W447); Nissan X-Trail (T30); Opel Vectra C (Z02); VW Touareg (7L); etc. Supporting Joint/Guide Joint: BMW X5 (E53); Mazda 3 (BK), 6 (GG); Mercedes GLK (X204); Peugeot 307 (3H); VW T5, Touareg (7L); etc. |

2. Axle Repair

2.1 Steering Geometry



KL-0165-3 KA (Code 2801817) Ball Joint Extractor Set (with 6 Forks)

Universally applicable to HGV and light commercial vehicles/vans like MAN, Mercedes, VW, Ford, Scania, Volvo, Landini, John Deere etc.

An indispensable tool set for the quick and easy separation of ball joint connections in axle/suspension and steering systems.

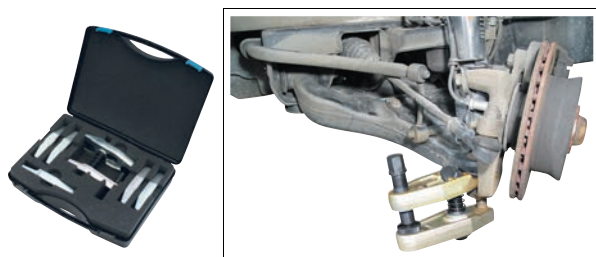
Advantage:

- Variable through separator forks
- High stability
- Ideal release pressure point and adjustable tilting adjustment

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

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 | 1 |
| KL-0165-3001 | Fork Size 3 - a=30mm - e=80mm - d=200mm (results KL-0165-30) | 1 |
| KL-0165-3101 | Fork Size 3 - a=34mm - e=80mm - d=200mm (results KL-0165-31) | 1 |
| KL-0165-3201 | Fork Size 3 - a=40mm - e=80mm - d=200mm (results KL-0165-32) | 1 |
| KL-0165-3301 | Fork Size 3 - a=42mm - e=80mm - d=200mm (results KL-0165-33) | 1 |
| KL-0165-3401 | Fork Size 3 - a=47mm - e=80mm - d=200mm (results KL-0165-34) | 1 |
| KL-0165-3501 | Fork Size 3 - a=33mm - e=80mm - d=200mm (results KL-0165-35) | 1 |
| KL-0165-3090 A | Plastic Storage Case | 1 |



R11201002 (Code 3301558) Ball Joint Extractor (Universal)

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

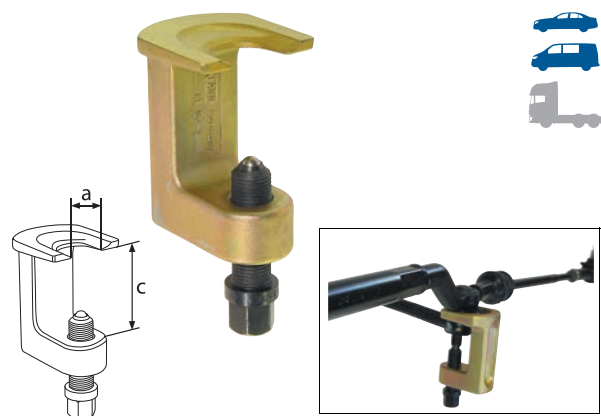
Alternative tool: KM-507-C, 267A, 951-2945, V/176

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

Recommended Accessory: 1993 U-20 Reversible ratchet

Technical Data:

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



KL-0164-2 (Code 1753568) 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.

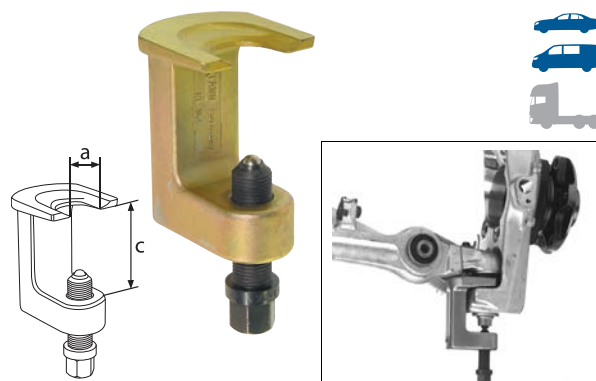
Designed to extract the ball joint pivot pin from steering arms, steering knuckles, stabilisers etc. Needed when extracting the suspension ball joint pivot pin from the steering knuckle.

Recommended Accessory: 1993 U-20 Reversible ratchet

Technical Data:

| | |
|----|------|
| a: | 23mm |
| c: | 55mm |

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



KL-0164-3 (Code 1753576) Ball Joint Extractor

Suitable for front axle on Audi A4, A6, A8; VW Arteon (3H), Passat; Škoda Fabia (NJ); Mercedes C-Class (W203), B-Class (W246); Renault Megane (IV) etc.

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

Recommended Accessory: 1993 U-20 Reversible ratchet

Technical Data:

| | |
|----|------|
| a: | 28mm |
| c: | 55mm |

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

2.1 Steering Geometry

KL-0169-60 (Code 3230295) Toe Measuring Gauge

Universally applicable to passenger cars, HGVs, LCVs etc.

Allows for quick and simple toe measurement via the inner rim flange or wheel. Telescopic design allows measurement range to be easily adjusted from 950 to max 1500mm (expandable to max 2150mm). Easy-to-read graduated toe scale from 0 to 40mm.

Recommended Accessory:

KL-0169-61 Extension

Technical Data:

| | |
|--|--------------|
| Toe scale: | 0 - 40mm |
| Measurement range: | 950 - 1500mm |
| Measurement range with KL-0169-61 : | max. 2150mm |



KL-0169-61 (Code 3230317) Extension

For extending the measurement range of the **KL-0169-60** toe measuring gauge to 2150mm.

Necessary Accessories:

KL-0169-60 Toe Measuring Gauge



KL-0169-1 B (Code 3283674) Track Rod Adjustment Tool

Universally suitable for track rods with tube Ø of approx. 11 to 23mm as found in passenger cars.

Designed to facilitate the loosening and adjustment of stiff track rods with tube Ø of approx. 11 to 23mm as found in passenger cars. Thanks to the detachable tube handle, the tool length can be reduced from 420 to 250mm. Thus allows 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. 11-23mm |
| Overall length: | 420mm |
| Length without tube handle: | 250mm |

Scope of Delivery:

KL-0169-1 B Track Rod Adjustment Tool

| Part No. | Description | Qty |
|--------------|-----------------|-----|
| KL-0169-100 | Adjustment Tool | 1 |
| KL-0169-101 | Tube Handle | 1 |
| KL-0169-1001 | Adaptor | 1 |

4 pcs.



2. Axle Repair

2.1 Steering Geometry



KL-0167-15 A (Code 2877287) Universal Wrench for Inner Track Rod Joint, Ø 30-43mm

Universally suitable for all inner track rod joints with a spherical head Ø 30mm - 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.

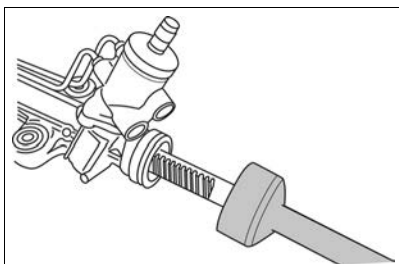
The tool stands out for its special design, the exchangeable roller inserts equipped with high-grade metal rollers and steel cage. The perfect choice for a wide range of applications.

Works on spherical heads with Ø 30mm - 43mm.

Recommended Accessory:
1993 U-20 Reversible ratchet 1/2"

Advantages:

- Universal tool, thanks to its very small outer diameter and large working range 30mm - 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 |



KL-0167-30 (Code 3292754) (German Utility Model) Eccentric spanner to Remove / Install the Inner Track Rod Joint

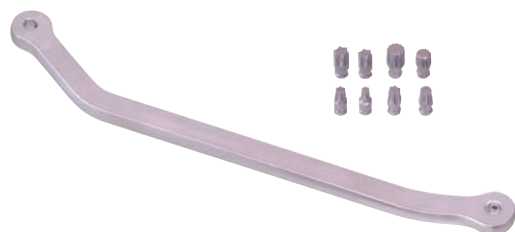
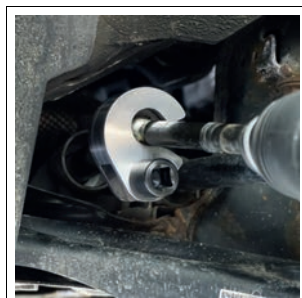
Universally suitable for cars and vans, e.g. Audi, BMW, Citroen, Dacia, Ford, Hyundai, Kia, Mazda, Mercedes, Mini, Nissan, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Skoda, Toyota, Volvo, VW and many more.

For a quick removal and installation of internal track rod joint or axial joints with a diameter of 30 to 43mm, directly on the vehicle without removing the steering gear.

The unique open design makes it easy to fit the spanner directly onto the track rod without first having to dismantle the outer, usually seized part of the track rod. The outer profile on the track rod or axial joint (e.g. 2-sided, 4-sided, 6-sided or round) is irrelevant. The track rod eccentric spanner is driven by a 1/2" square socket.

Technical Data:

| | |
|--------|---------|
| Drive: | 1/2" |
| For Ø: | 30-43mm |



KL-0270-31 C (Code 2221594) 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



THE TORQUE MULTIPLIER SERIES LKV, 100 - 2800 Nm

Lightweight, high-performance aluminium housing is 30 % lighter than a steel one



Fixed reaction arm in straight or cranked version



Output square as overload protection for gear unit protection



Supplied with individual GEDORE factory calibration certificate



Series LKV-20L/ 28L



Scope of delivery

- › Device
- › Reaction arm cranked or straight (screwed to the device)
- › Tool box
- › Operating Instructions
- › Factory calibration certificate
- › Torque calculator



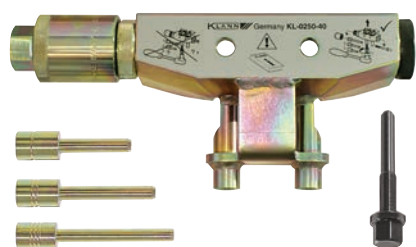
Replacement parts

- › Replacement square drive for LKV-20
- › Replacement square drive for LKV-28



2. Axle Repair

2.2 Support Joints, Bearings and Bushings



5 pcs.



KL-0250-40

(Code 1754483)

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.

Alternative tool: VAS 6085



For the quick and professional extraction of the hex clamping bolt and pivot pins, especially when components are corroded/seized in place.

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

Not only would the technique using hammer, welding torch, angle grinder and drift be time-consuming and arduous, there would also be a risk of damaging steering knuckles, pivot pins and wishbone struts.

Advantages:

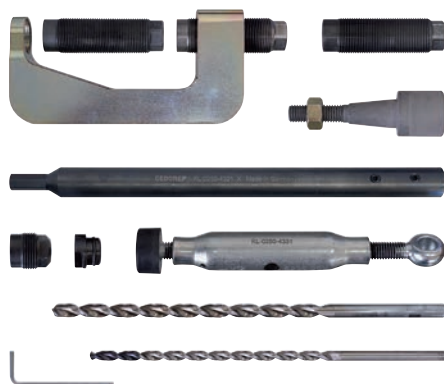
- High cost savings.
- Substantial time savings of approximately 2-3 hours.
- No risk of damage to suspension components.

Technical Data:

| | |
|---------|-------|
| Weight: | 2.4kg |
|---------|-------|

Scope of Delivery: KL-0250-40 Extractor for Clamping Bolt and Ball Joint

| Part No. | Description | Qty |
|--------------|------------------------------------|-----|
| KL-0250-4001 | Tool Body | 1 |
| KL-0250-4002 | Thread Adaptor (with large bore) | 1 |
| KL-0250-4005 | Pressure Screw, M10x1.25x95 mm | 1 |
| KL-0250-4011 | Housing | 1 |
| KL-0250-4012 | Pressure Drift I (Length 78 mm) | 1 |
| KL-0250-4013 | Nut | 1 |
| KL-0250-4014 | Pressure Drift II (Length 98 mm) | 1 |
| KL-0250-4015 | Pressure Drift III (Length 118 mm) | 1 |



14 pcs.



KL-0250-43 KA

(Code 3244253)

Drill-Out Tool Kit for Strut Bolts, in a Plastic Storage Case, VW-Audi

Applicable to VW-Audi, SEAT and ŠKODA vehicles with multi-link suspension. For example: VW Passat (3B), Phaeton (3D); Audi A4 (8E, 8H, 8K); A5 (8T, 8F); A6 (4B, 4G, 4F); Q5 (8R), A7 (4GA, 4GF), A8 (4D); SEAT Exeo (3R2, 3R5) and ŠKODA Superb (3U).

For the professional pilot drilling/drilling out of seized/stuck strut clamping bolts having a 16mm waf size on multi-link suspensions. Necessary when changing the upper/lower control arm as well as the track rod end. This tool kit eliminates the need for the cost-intensive replacement of the complete steering knuckle with wheel bearing unit.

In order to prevent damage to the mudguard on vehicles with low-mount steering gear, the steering knuckle needs to be locked in fully turned position by means of the clamping device that comes with the kit.

Scope of Delivery:

KL-0250-43 KA Drill-Out Tool Kit for Strut Bolts, in a Plastic Storage Case

| Part No. | Description | Qty |
|----------------|---|-----|
| KL-0250-4311 A | Base Tool | 1 |
| KL-0250-4313 | Drill Sleeve, Ø 7mm | 1 |
| KL-0250-4314 | Drill Sleeve with recess, Ø 7mm | 1 |
| KL-0250-4321 A | Extension, with Grub Screws | 1 |
| KL-0250-4322 | Twist Drill, Ø 9.5x175x250mm, with clamping surface | 1 |
| KL-0250-4323 | Twist Drill, Ø 7x155x225mm, with clamping surface | 1 |
| KL-0250-4324 | Countersink, Ø 12.4mm | 1 |
| KL-0250-433 | Clamping Device | 1 |
| KL-0250-4341 | Supplement, Track Rod End | 1 |
| 119-175 | Drift, 6mm | 1 |
| 42 3 | Hex Socket Key, 3mm | 1 |
| KL-0250-4390 | Plastic Storage Case | 1 |



2.2 Support Joints, Bearings and Bushings

KL-0250-434

[Code 3244288]

Upgrade Kit for KL-0250-43 K to form KL-0250-43 KA

This kit is intended as a supplement to the **KL-0250-43 K** Drill-Out Tool Kit for Strut Bolts. The combination of both sets provides you with all the tools of the **KL-0250-43 KA** kit.



KL-0326-161 E

[Code 2842807]

Hydraulic Press Tool Set, without Drive, in a Foam Insert

Universally suitable for lower/upper suspension ball joints.

Particularly suitable for use on Mercedes W201 (190 Series), W124 (E-Class), W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) and VW T4 (suspension ball joint, front axle) and Mercedes W163 (M-Class) (suspension ball joint, front and rear axle), Mercedes W211 (E-Class), W219 (CLS), W220 (S-Class), W230 (SL) (upper ball joint, front axle).

The **KL-0326-161 E** hydraulic press tool set is designed to 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 ball joints can sometimes also be carried out in situ on the vehicle within just a few minutes without the need for dismounting the wishbone.

Required Drive Parts:

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1930** Pressure Spindle

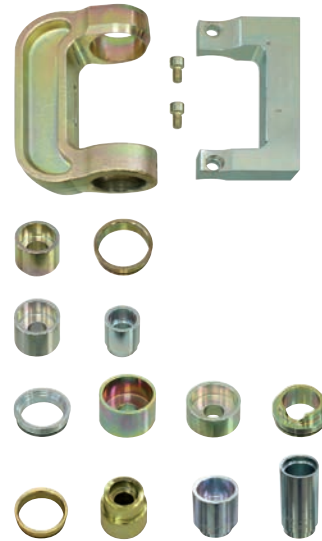
Tool Storage System: KL-4999-1393 - Plastic Storage Case

Scope of Delivery:

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

| 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-4999-1319 | Foam Insert | 1 |

16 pcs.



KL-0326-20

[Code 1827812]

4-Pin Lock Nut Socket, Mercedes

Applicable to Mercedes M-Class (W163).

Alternative tool: W 385 589 00 07 00

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

Recommended Accessory:

1993 U-20 Reversible Ratchet

Technical Data:

| | |
|-----------------|-------|
| Outer diameter: | 63mm |
| Inner diameter: | 53mm |
| Pin width: | 7.5mm |
| Drive: | 1/2" |
| Weight: | 360g |



1/2"



2. Axle Repair

2.2 Support Joints, Bearings and Bushings



KL-1340-401

(Code 3249255)

Special Socket, 44mm, PSA

Applicable to screw-in type suspension ball joints having a waf size of 44mm as found at the front axle of Citroën, Peugeot and Toyota vehicles. For example: Toyota PROACE II, PROACE VERSO; Citroën Jumpy III, Spacetourer; Peugeot Expert III.

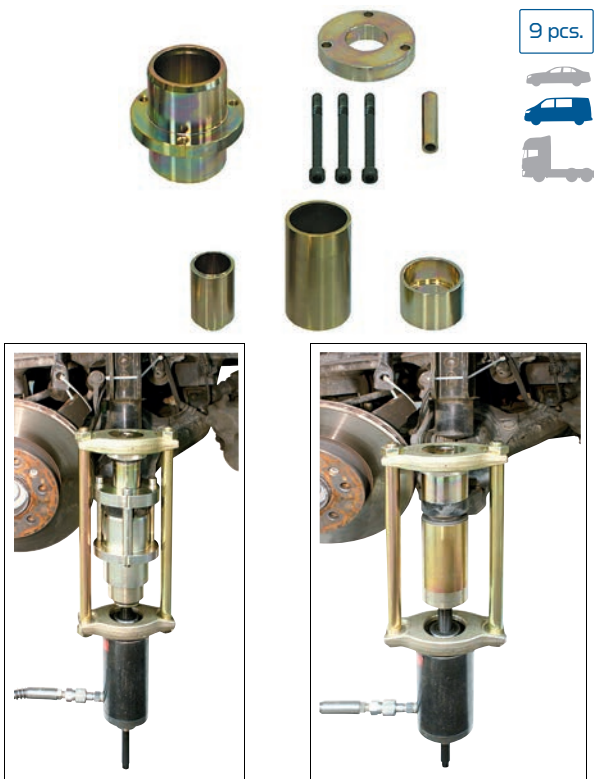
For the professional loosening and tightening of front wishbone screw-in type suspension ball joints. An indispensable tool when replacing damaged or worn suspension ball joints in these applications.

Recommended Accessory:

1993 U-20 Reversible Ratchet 1/2"

Technical Data:

| | |
|-----------|---------------------|
| Waf size: | 44mm |
| Drive: | 1/2" |
| Length: | 85mm |
| Profile: | special hex profile |



9 pcs.



KL-0039-7533

(Code 2489708)

Sleeve Set, Mercedes Sprinter/VW Crafter

Applicable to lower ball joints on front axle wishbones as found in: Mercedes Sprinter (W901, W902, W903, W904, W906, W907) as well as VW Crafter (2E/2F), VW LT (2D).

Used in conjunction with the necessary drive parts, the sleeve set enables the suspension ball joints to be quickly and properly pressed out/into the lower wishbone in situ on the vehicle.

No need to dismantle and re-install the wishbone!

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive:

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1930** Pressure Spindle (M20x350), **KL-0039-1002** Adaptor, **KL-0039-1140** Press Frame

Mechanical Drive:

KL-0174-831 Spindle, **KL-0039-1140** Press Frame, **KL-0039-1002** Retaining Adaptor

Scope of Delivery:

KL-0039-7533 Sleeve Set, Mercedes Sprinter / VW Crafter

| Part No. | Description | Qty |
|--------------|--|-----|
| KL-0039-7534 | Support Sleeve with Clamping Washer, Mercedes Sprinter (W906)/VW Crafter (2E/2F) | 1 |
| KL-0039-1829 | Press Sleeve | 1 |
| KL-0039-1762 | Press Sleeve, Ø 62mm, long | 1 |
| KL-0039-1662 | Support Sleeve, Ø 62mm, short | 1 |



2 pcs.



KL-0039-7535

(Code 2489686)

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

Suitable for Mercedes Sprinter (W906, W907) 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, W907) models from 2006 onwards and VW Crafter (2E/2F) models from 2006 onwards.

Necessary Accessories:

KL-0039-750 Pressing Device or **KL-0039-7503** Sleeve Set (+ Drive Parts)

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 | Press Sleeve | 1 |

2.2 Support Joints, Bearings and Bushings

KL-0039-722 (Code 2364565)

Sleeve Set, Upper Suspension Ball Joint, Renault Master II / Opel/Vauxhall Movano I

Suitable for Renault Master II (1998 onwards) and Opel/Vauxhall Movano I (1998 onwards), front axle upper suspension ball joint.

The sleeve set **KL-0039-722** allows the quick, professional and safe removal and installation of the specified suspension ball joints on the front upper wishbone. This tool enables even heavily corroded ball joints to be pushed out and replaced within just a few minutes.

The removal of the upper wishbone is not necessary.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive:

KL-0215-35 M25 Hydraulic Pump, **KL-0040-2500** Hydraulic Cylinder (17t), **KL-0039-1140** Press Frame, **KL-0039-1930** Pressure Spindle, **KL-0039-1002** Retaining Adaptor

Mechanical Drive:

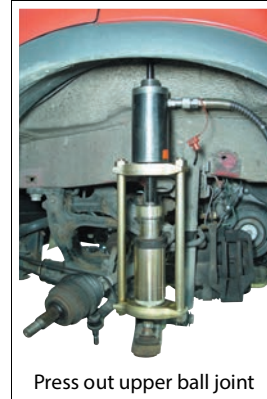
KL-0174-831 Mechanical Drive Set, **KL-0039-1140** Press Frame, **KL-0039-1002** Retaining Adaptor

Scope of Delivery:

KL-0039-722 Sleeve Set, Upper Suspension Ball Joint

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

4 pcs.



KL-0039-732 (Code 2364921)

Sleeve Set, Lower Suspension Ball Joint, Renault Master II / Opel/Vauxhall Movano I

Suitable for Renault Master II (1998 onwards) and Opel/Vauxhall Movano I (1998 onwards).

The **KL-0039-732** sleeve set allows for the quick, professional and safe removal and installation of suspension ball joints on the front lower wishbone.

This tool enables even heavily corroded ball joints to be pushed out and pressed in within just a few minutes.

No need to dismantle the lower wishbone.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive:

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1140** Press Frame, **KL-0039-1930** Pressure Spindle, **KL-0039-1002** Retaining Adaptor

Mechanical Drive:

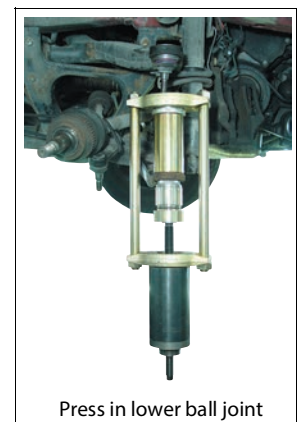
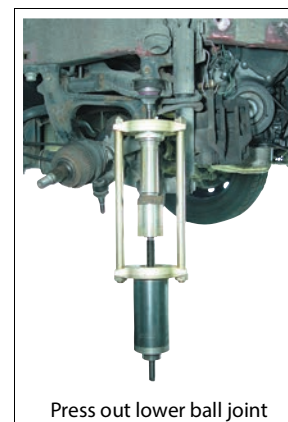
KL-0174-831 Mechanical Drive Set, **KL-0039-1140** Press Frame, **KL-0039-1002** Retaining Adaptor

Scope of Delivery:

KL-0039-732 Sleeve Set, Lower Suspension Ball Joint

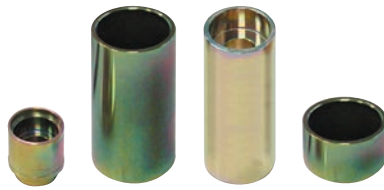
| Part-No. | Description | Qty |
|--------------|-------------------------------------|-----|
| KL-0039-1821 | Press/Support Sleeve | 1 |
| KL-0039-1658 | Press/Support Sleeve, short, Ø 58mm | 1 |
| KL-0039-1652 | Press/Support Sleeve, short, Ø 52mm | 1 |
| KL-0039-1822 | Press/Support Sleeve | 1 |

4 pcs.



2. Axle Repair

2.2 Support Joints, Bearings and Bushings



4 pcs.



KL-1210-221

(Code 3123707)

Sleeve Set for Suspension Ball Joint, Renault/Dacia

Suitable for use on the suspension ball joints at the front axle wishbone of Renault and Dacia vehicles. For example, fitted to Renault Clio Grandtour, Clio III, Clio IV, Grand Scénic II, Mégane II, Modus / Grand Modus, Scénic II, Twizy, Zoe; Dacia Logan, Logan Express, Logan MCV, Logan Pick-up, Sandero, Sandero II.

For the quick, safe and professional removal and installation of the suspension ball joint found at front axle wishbones. Removal and installation of the suspension ball joint can be carried out in situ on the vehicle, within a few minutes, without the need for dismantling the wishbone.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive:

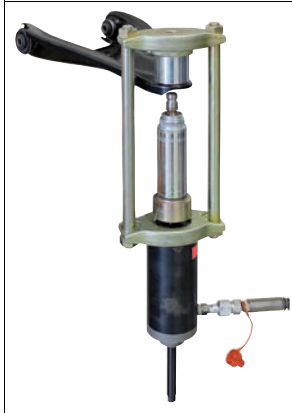
KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1140** Press Frame, **KL-0039-1930** Pressure Spindle, **KL-0039-1002** Retaining Adaptor

Mechanical Drive:

KL-0174-831 Mechanical Drive Set, **KL-0039-1140** Press Frame, **KL-0039-1002** Retaining Adaptor

Scope of Delivery: KL-1210-221 Sleeve Set for Suspension Ball Joint, Renault/Dacia

| Part No. | Description | Qty |
|--------------|----------------------------------|-----|
| KL-0711-1111 | Press Sleeve, short, Ø 38mm | 1 |
| KL-0039-1754 | Support Sleeve, long, Ø 54/46mm | 1 |
| KL-0039-1746 | Press Sleeve, long, Ø 46/38mm | 1 |
| KL-0039-1654 | Support Sleeve, short, Ø 54/46mm | 1 |



Note: Alternatively, the KL-1210-221 sleeve set can also be used in conjunction with an appropriate workshop press.



34 pcs.



KL-0039-413 K

(Code 2828286)

Pulling Device for Silentbloc (Mechanical Drive)

Universally suitable for silentblocs/joint bushes with Ø 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 press/support sleeves, the pulling device covers a wide field of applications; for example, it allows the user to change wheel bearings as well.

A 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 also enables the removal and installation of suspension ball joints etc.

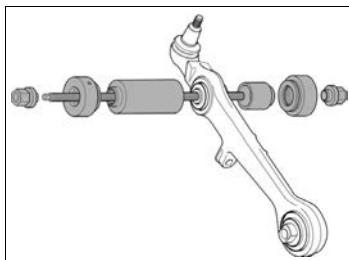
Recommended Drive Parts (hydraulic):

KL-0039-2112 Pull Spindle (M12) with quick-action clamping nut, **KL-0039-1002** Retaining Adaptor, **KL-0039-1003** Retaining Adaptor, **KL-0040-2500** Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump

Scope of Delivery:

KL-0039-413 K Pulling Device for Silentbloc (Mechanical Drive)

| Part No. | Description | Qty |
|--------------|---|-----|
| KL-0039-1664 | Press/Support Sleeve (short), Ø 64/56mm | 1 |
| KL-0039-1666 | Press/Support Sleeve (short), Ø 66/58mm | 1 |
| KL-0039-1670 | Press/Support Sleeve (short), Ø 70/62mm | 2 |
| KL-0039-1672 | Press/Support Sleeve (short), Ø 72/64mm | 2 |
| KL-0039-1744 | Press/Support Sleeve (long), Ø 44/36mm | 2 |
| KL-0039-1750 | Press/Support Sleeve (long), Ø 50/42mm | 2 |
| KL-0039-1756 | Press/Support Sleeve (long), Ø 56/48mm | 1 |
| KL-0039-1762 | Press/Support Sleeve (long), Ø 62/54mm | 1 |
| KL-0039-1766 | Press/Support Sleeve (long), Ø 66/58mm | 1 |
| KL-0039-1770 | Press/Support Sleeve (long), Ø 70/62mm | 1 |
| KL-0039-1774 | Press/Support Sleeve (long), Ø 74/66mm | 1 |
| KL-0039-1778 | Press/Support Sleeve (long), Ø 78/70mm | 1 |
| KL-0039-1782 | Press/Support Sleeve (long), Ø 82/74mm | 1 |
| KL-0039-1784 | Press/Support Sleeve (long), Ø 84/76mm | 1 |
| KL-0014-0030 | Molybdenum Disulphide Paste | 1 |
| KL-0039-4139 | Press/Support Sleeve (short), Ø 58/50mm | 1 |



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 | 1 |
| KL-0039-1912-2 | Shoulder Nut, M12 | 1 |
| KL-0039-1914-2 | Shoulder Nut, M14 | 1 |
| KL-0039-1916-2 | Shoulder Nut, M16 | 1 |
| 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 | Press/Support Sleeve (short), Ø 30/22mm | 1 |
| KL-0039-1640 | Press/Support Sleeve (short), Ø 40/32mm | 1 |
| KL-0039-1646 | Press/Support Sleeve (short), Ø 46/38mm | 1 |
| KL-0039-1650 | Press/Support Sleeve (short), Ø 50/42mm | 1 |
| KL-0039-1654 | Press/Support Sleeve (short), Ø 54/46mm | 1 |
| KL-0039-1658 | Press/Support Sleeve (short), Ø 58/50mm | 1 |

2.2 Support Joints, Bearings and Bushings

KL-0039-160 E (Code 2840723) Press/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Foam Insert

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**.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive:

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump,
KL-0039-1002 Retaining Adaptor, **KL-0039-1003** Retaining Adaptor,
KL-0039-21.. Series Pull Spindle (depending on the required spindle diameter)

Hydraulic Press Frame (optional):

KL-0039-1140 Press Frame, **KL-0039-1930** Pressure Spindle

Mechanical Drive:

KL-0039-1011 Retaining Adaptor, **KL-0039-1002** Retaining Adaptor,
KL-0039-22.. Series Pull Spindle (depending on the required spindle diameter)

Mechanical Press Frame (optional):

KL-0039-1140 Press Frame, **KL-0174-831** Mechanical Drive Set

Tool Storage System:

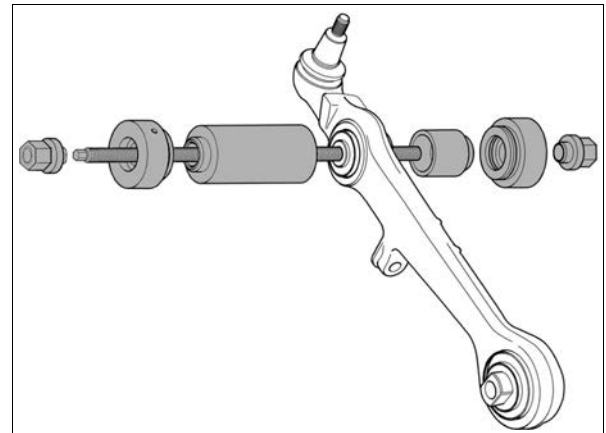
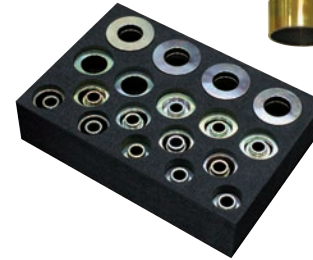
KL-4999-1391 Plastic Storage Case

Scope of Delivery:

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

| Part No. | Description | Qty | Part No. | Description | Qty |
|--------------|--------------|-----|--------------|--------------|-----|
| KL-0039-1630 | Ø 30/22mm | 1 | KL-0039-1662 | Ø 62 / 54 mm | 1 |
| KL-0039-1632 | Ø 32 / 24 mm | 1 | KL-0039-1664 | Ø 64/56mm | 1 |
| KL-0039-1634 | Ø 34/26mm | 1 | KL-0039-1666 | Ø 66/58mm | 1 |
| KL-0039-1636 | Ø 36/28mm | 1 | KL-0039-1668 | Ø 68 / 60 mm | 1 |
| KL-0039-1638 | Ø 38 / 30 mm | 1 | KL-0039-1670 | Ø 70/62mm | 1 |
| KL-0039-1640 | Ø 40/32mm | 1 | KL-0039-1672 | Ø 72 / 64 mm | 1 |
| KL-0039-1642 | Ø 42/34mm | 1 | KL-0039-1674 | Ø 74/66mm | 1 |
| KL-0039-1644 | Ø 44 / 36 mm | 1 | KL-0039-1676 | Ø 76/68mm | 1 |
| KL-0039-1646 | Ø 46/38mm | 1 | KL-0039-1678 | Ø 78/70mm | 1 |
| KL-0039-1648 | Ø 48 / 40 mm | 1 | KL-0039-1680 | Ø 80/72mm | 1 |
| KL-0039-1650 | Ø 50 / 42 mm | 1 | KL-0039-1682 | Ø 82/74mm | 1 |
| KL-0039-1652 | Ø 52/44mm | 1 | KL-0039-1684 | Ø 84/76mm | 1 |
| KL-0039-1654 | Ø 54 / 46 mm | 1 | KL-0039-1686 | Ø 86/78mm | 1 |
| KL-0039-1656 | Ø 56/48mm | 1 | KL-0039-1688 | Ø 88 / 80 mm | 1 |
| KL-0039-1658 | Ø 58/50mm | 1 | KL-0039-1690 | Ø 90/82mm | 1 |
| KL-0039-1660 | Ø 60/52mm | 1 | KL-4999-1312 | Foam Insert | 1 |

31 pcs.



KL-0039-1601 (Code 2355418) Press/Support Sleeve Set Ø 30-68mm, short, 45mm, with Guide Pins

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**. Including guide pins for clean positioning of silentblocs.

Necessary Drive Parts, see **KL-0039-160 E**.

Scope of Delivery:

KL-0039-1601 Press/Support Sleeve Set (Short Design)

| Part No. | Description | Qty |
|--------------|--|-----|
| KL-0039-1610 | Guide Pin (short), Ø 10mm | 1 |
| KL-0039-1612 | Guide Pin (short), Ø 12mm | 1 |
| KL-0039-1614 | Guide Pin (short), Ø 14mm | 1 |
| KL-0039-1616 | Guide Pin (short), Ø 16mm | 1 |
| KL-0039-1630 | Press/Support Sleeve (short), Ø A: 30mm, Ø B: 22mm | 1 |
| KL-0039-1632 | Press/Support Sleeve (short), Ø A: 32mm, Ø B: 24mm | 1 |
| KL-0039-1634 | Press/Support Sleeve (short), Ø A: 34mm, Ø B: 26mm | 1 |
| KL-0039-1636 | Press/Support Sleeve (short), Ø A: 36mm, Ø B: 28mm | 1 |
| KL-0039-1638 | Press/Support Sleeve (short), Ø A: 38mm, Ø B: 30mm | 1 |
| KL-0039-1640 | Press/Support Sleeve (short), Ø A: 40mm, Ø B: 32mm | 1 |
| KL-0039-1642 | Press/Support Sleeve (short), Ø A: 42mm, Ø B: 34mm | 1 |
| KL-0039-1644 | Press/Support Sleeve (short), Ø A: 44mm, Ø B: 36mm | 1 |

24 pcs.



Scope of Delivery:

KL-0039-1601 Press/Support Sleeve Set (Short Design)

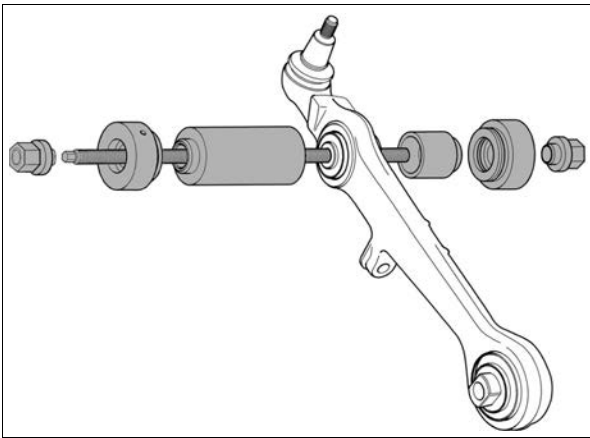
| Part No. | Description | Qty |
|--------------|--|-----|
| KL-0039-1646 | Press/Support Sleeve (short), Ø A: 46mm, Ø B: 38mm | 1 |
| KL-0039-1648 | Press/Support Sleeve (short), Ø A: 48mm, Ø B: 40mm | 1 |
| KL-0039-1650 | Press/Support Sleeve (short), Ø A: 50mm, Ø B: 42mm | 1 |
| KL-0039-1652 | Press/Support Sleeve (short), Ø A: 52mm, Ø B: 44mm | 1 |
| KL-0039-1654 | Press/Support Sleeve (short), Ø A: 54mm, Ø B: 46mm | 1 |
| KL-0039-1656 | Press/Support Sleeve (short), Ø A: 56mm, Ø B: 48mm | 1 |
| KL-0039-1658 | Press/Support Sleeve (short), Ø A: 58mm, Ø B: 50mm | 1 |
| KL-0039-1660 | Press/Support Sleeve (short), Ø A: 60mm, Ø B: 52mm | 1 |
| KL-0039-1662 | Press/Support Sleeve (short), Ø A: 62mm, Ø B: 54mm | 1 |
| KL-0039-1664 | Press/Support Sleeve (short), Ø A: 64mm, Ø B: 56mm | 1 |
| KL-0039-1666 | Press/Support Sleeve (short), Ø A: 66mm, Ø B: 58mm | 1 |
| KL-0039-1668 | Press/Support Sleeve (short), Ø A: 68mm, Ø B: 60mm | 1 |

2. Axle Repair

2.2 Support Joints, Bearings and Bushings



31 pcs.



KL-0039-170 E

(Code 2840693)

Press/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Foam Insert

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**.

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive:

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1002** Retaining Adaptor, **KL-0039-1003** Retaining Adaptor, **KL-0039-21.. Series** Pull Spindle (depending on the required spindle diameter)

Hydraulic Press Frame (optional):

KL-0039-1140 Press Frame, **KL-0039-1930** Pressure Spindle

Mechanical Drive:

KL-0039-1011 Retaining Adaptor, **KL-0039-1002** Retaining Adaptor, **KL-0039-22.. Series** Pull Spindle (depending on the required spindle diameter)

Mechanical Press Frame (optional):

KL-0039-1140 Press Frame, **KL-0174-831** Mechanical Drive Set

Tool Storage System:

KL-4999-1390 Plastic Storage Case

Scope of Delivery:

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

| Part No. | Description | Qty | Part No. | Description | Qty |
|--------------|--------------|-----|--------------|-------------|-----|
| KL-0039-1730 | Ø 30/22mm | 1 | KL-0039-1762 | Ø 62/54 mm | 1 |
| KL-0039-1732 | Ø 32/24mm | 1 | KL-0039-1764 | Ø 64/56mm | 1 |
| KL-0039-1734 | Ø 34/26mm | 1 | KL-0039-1766 | Ø 66/58 mm | 1 |
| KL-0039-1736 | Ø 36/28mm | 1 | KL-0039-1768 | Ø 68/60mm | 1 |
| KL-0039-1738 | Ø 38/30 mm | 1 | KL-0039-1770 | Ø 70 /62 mm | 1 |
| KL-0039-1740 | Ø 40/32mm | 1 | KL-0039-1772 | Ø 72/64 mm | 1 |
| KL-0039-1742 | Ø 42/34mm | 1 | KL-0039-1774 | Ø 74/66mm | 1 |
| KL-0039-1744 | Ø 44/36 mm | 1 | KL-0039-1776 | Ø 76/68 mm | 1 |
| KL-0039-1746 | Ø 46/38mm | 1 | KL-0039-1778 | Ø 78/70 mm | 1 |
| KL-0039-1748 | Ø 48/40mm | 1 | KL-0039-1780 | Ø 80/72mm | 1 |
| KL-0039-1750 | Ø 50/42mm | 1 | KL-0039-1782 | Ø 82/74mm | 1 |
| KL-0039-1752 | Ø 52/44 mm | 1 | KL-0039-1784 | Ø 84/76mm | 1 |
| KL-0039-1754 | Ø 54/46mm | 1 | KL-0039-1786 | Ø 86/78mm | 1 |
| KL-0039-1756 | Ø 56/48mm | 1 | KL-0039-1788 | Ø 88/80mm | 1 |
| KL-0039-1758 | Ø 58/50mm | 1 | KL-0039-1790 | Ø 90/82mm | 1 |
| KL-0039-1760 | Ø 60 / 52 mm | 1 | KL-4999-1311 | Foam Insert | 1 |



24 pcs.



KL-0039-1701

(Code 2357984)

Press/Support Sleeve Set Ø 30-68mm, long, 115mm, with Guide Pins

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**. Including guide pins for clean positioning of silentblocs.

Necessary Drive Parts, see **KL-0039-170 E**.

Scope of Delivery:

KL-0039-1701 Press/Support Sleeve Set (Long Design)

| Part No. | Description | Qty |
|--------------|---|-----|
| KL-0039-1710 | Guide Pin (long), Ø 10mm | 1 |
| KL-0039-1712 | Guide Pin (long), Ø 12mm | 1 |
| KL-0039-1714 | Guide Pin (long), Ø 14mm | 1 |
| KL-0039-1716 | Guide Pin (long), Ø 16mm | 1 |
| KL-0039-1730 | Press/Support Sleeve (long), Ø A: 30mm, Ø B: 22mm | 1 |
| KL-0039-1732 | Press/Support Sleeve (long), Ø A: 32mm, Ø B: 24mm | 1 |
| KL-0039-1734 | Press/Support Sleeve (long), Ø A: 34mm, Ø B: 26mm | 1 |
| KL-0039-1736 | Press/Support Sleeve (long), Ø A: 36mm, Ø B: 28mm | 1 |
| KL-0039-1738 | Press/Support Sleeve (long), Ø A: 38mm, Ø B: 30mm | 1 |
| KL-0039-1740 | Press/Support Sleeve (long), Ø A: 40mm, Ø B: 32mm | 1 |
| KL-0039-1742 | Press/Support Sleeve (long), Ø A: 42mm, Ø B: 34mm | 1 |
| KL-0039-1744 | Press/Support Sleeve (long), Ø A: 44mm, Ø B: 36mm | 1 |

Scope of Delivery:

KL-0039-1701 Press/Support Sleeve Set (Long Design)

| Part No. | Description | Qty |
|--------------|---|-----|
| KL-0039-1746 | Press/Support Sleeve (long), Ø A: 46mm, Ø B: 38mm | 1 |
| KL-0039-1748 | Press/Support Sleeve (long), Ø A: 48mm, Ø B: 40mm | 1 |
| KL-0039-1750 | Press/Support Sleeve (long), Ø A: 50mm, Ø B: 42mm | 1 |
| KL-0039-1752 | Press/Support Sleeve (long), Ø A: 52mm, Ø B: 44mm | 1 |
| KL-0039-1754 | Press/Support Sleeve (long), Ø A: 54mm, Ø B: 46mm | 1 |
| KL-0039-1756 | Press/Support Sleeve (long), Ø A: 56mm, Ø B: 48mm | 1 |
| KL-0039-1758 | Press/Support Sleeve (long), Ø A: 58mm, Ø B: 50mm | 1 |
| KL-0039-1760 | Press/Support Sleeve (long), Ø A: 60mm, Ø B: 52mm | 1 |
| KL-0039-1762 | Press/Support Sleeve (long), Ø A: 62mm, Ø B: 54mm | 1 |
| KL-0039-1764 | Press/Support Sleeve (long), Ø A: 64mm, Ø B: 56mm | 1 |
| KL-0039-1766 | Press/Support Sleeve (long), Ø A: 66mm, Ø B: 58mm | 1 |
| KL-0039-1768 | Press/Support Sleeve (long), Ø A: 68mm, Ø B: 60mm | 1 |

2.2 Support Joints, Bearings and Bushings

KL-0214-221

(Code 2737493)

Pulling Device without Drive, for Double-Type Silentbloc, VW-Audi

Suitable for Audi A3 (8P1), TT (8J3, 8J9) until 06/2010; Seat Altea (5P5, 5P5, 5P8), Leon (1P1), Toledo III (5P2); Škoda Octavia (1Z3, 1Z5) until 12/2010; VW Caddy (2K/2C), EOS (1F7, 1F8), Golf Plus (5M1, 521), Golf V (1K1, 1K5), Golf VI (5K1, AJ5), Jetta (1K2) Touran (1T1, 1T2, 1T3), Passat (3C2, 3C5, 362, 365), Scirocco (137), Tiguan (5N).

The KL-0214-221 pulling device allows the quick and safe removal and installation of assembly carrier double-type silentblocs to be performed in situ on the vehicle. Releasing or removing the assembly carrier from the vehicle as well as follow-up wheel alignments are not necessary.

Necessary Drive Parts (cf. Chapter Drives):

KL-0215-35 M25 Hydraulic Pump, KL-0040-2500 Hydraulic Cylinder, KL-0039-1912-1 Pull Spindle (M12), KL-0039-2112-2 Quick-Action Clamping Nut, KL-0039-1003 Retaining Adaptor

Advantages:

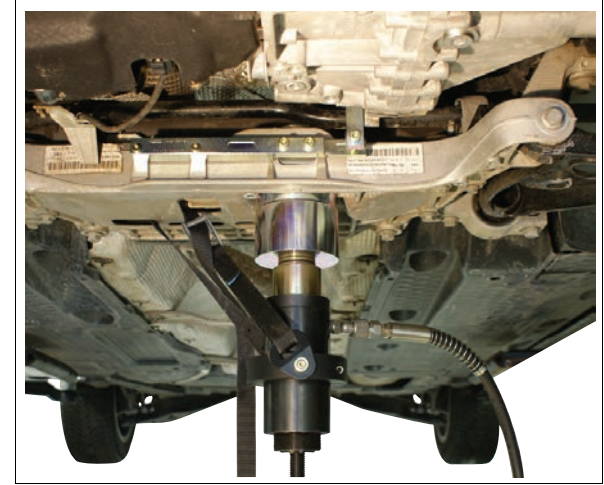
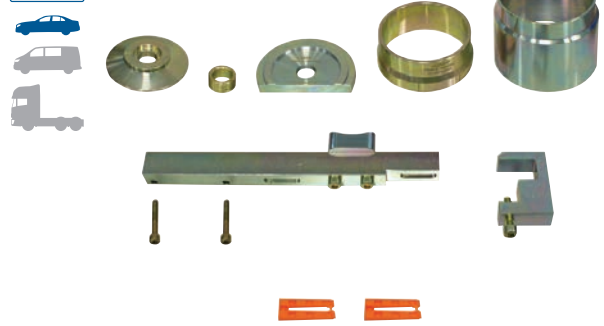
- Substantial time and cost savings.
- Eliminates the need for releasing and removing the assembly carrier from vehicle.
- Eliminates the need for wheel alignment.
- All components are available individually as spare parts.

Scope of Delivery:

KL-0214-221 Pulling Device for Double-Type Silentbloc, VW-Audi, Front Axle

| 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 |

11 pcs.



KL-0214-240

(Code 3267679)

Double Silentbloc Tool VW

Suitable for double silentblocs on carriers made of steel bent components.

Installed e.g. in VW Golf 7 (AU), Golf Sportsvan (AM, AN), Caddy (2K), Tiguan (AD), Touran (5T); Seat Ateca (KH), Leon (5F); Skoda Karoq (NU), Octavia (5E), Superb (3T).

The double silentbloc tool enables the quick and professional removal and installation of the double silentblocs (silentblocs of the torque arm) directly on the vehicle. It is not necessary to loosen or remove the unit carrier or to carry out a subsequent wheel alignment.*

Required Drive Parts:

Hydraulic Drive:

KL-0039-1912-1 Tension Spindle M12, KL-0039-1003 Mounting Adapter, KL-0040-2500 Hydraulic Cylinder 17t, KL-0215-35 M25 Hydraulic Pump,

Mechanic Drive:

KL-0039-2012-1 Tension Spindle M12, KL-0039-1011 Mounting Adapter, KL-0039-1912-2 Hex Collar Nut M12

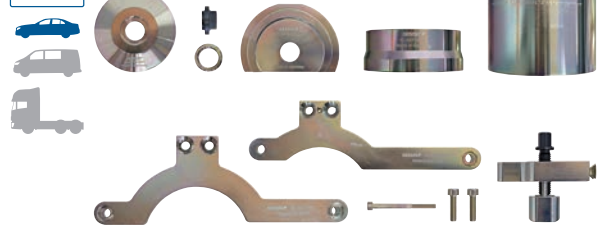
Technical Data:

| | |
|------------|----|
| Max. load: | 7t |
|------------|----|

Scope of Delivery: KL-0214-240 Double Silentbloc Tool VW

| Part No. | Description | Qty |
|----------------|---------------------------|-----|
| KL-0039-1912-3 | Hex collar nut M12 flat | 1 |
| KL-0041-7306 | Cheese-head screw M6x70mm | 1 |
| KL-0214-2201 | Thrust piece, Ø 89.5mm | 1 |
| KL-0214-2202 | Spacer ring, Ø 30mm | 1 |
| KL-0214-2203 A | Position plate | 1 |
| KL-0214-2204 | Conical sleeve, Ø 90mm | 1 |
| KL-0214-2401 | Pretensioning device | 1 |
| KL-0214-2402 | Pretensioning plate A | 1 |
| KL-0214-2403 | Pretensioning plate B | 1 |
| KL-0214-2404 | Support sleeve, Ø 98mm | 1 |
| KL-1283-1016 | Cheese-head screw M8x30mm | 2 |

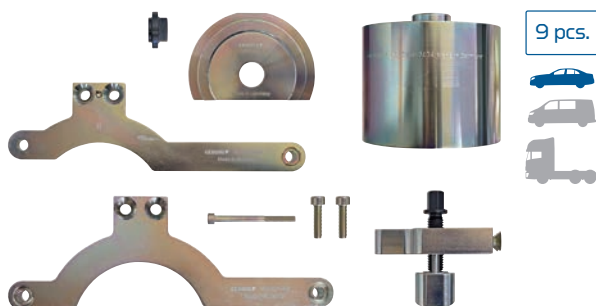
12 pcs.



*Note: Due to the confined space conditions, the carrier must be lowered and corresponding parts loosened on vehicles with all-wheel drive!

2. Axle Repair

2.2 Support Joints, Bearings and Bushings



9 pcs.



KL-0214-241

(Code 3267695)

Supplementary Kit for KL-0214-221

Suitable for double silentbloc on carriers made of steel bent components. For example, installed on VW Golf 7 (AU), Golf Sportsvan (AM, AN), Caddy (2K), Tiguan (AD), Touran (5T); Seat Ateca (KH), Leon (5F); Škoda Karoq (NU), Octavia (5E), Superb (3T).

This supplementary kit enables, in conjunction with the drawing device for double silentblocs - **KL-0214-221**, the quick and professional removal and installation of the double silentblocs (silentblocs of the torque arm) directly on the vehicle. It is not necessary to loosen or remove the unit carrier, or to carry out a subsequent wheel alignment.*

***Note:** Due to the confined space conditions, the carrier must be lowered and corresponding parts loosened on vehicles with all-wheel drive!

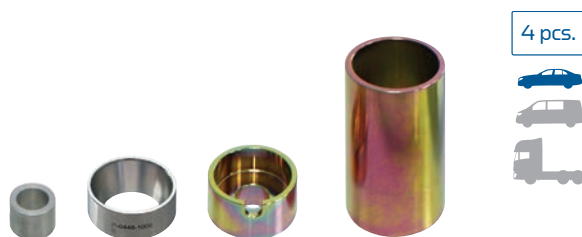


Technical Data:

Maximum load: 7t

Scope of Delivery: KL-0214-241 Upgrade Kit to KL-0214-221

| Part No. | Description | Qty |
|----------------|------------------------------|-----|
| KL-0214-2401 | Preload Device | 1 |
| KL-0214-2402 | Preload Plate A | 1 |
| KL-0214-2403 | Preload Plate B | 1 |
| KL-0214-2404 | Support Sleeve Ø 98mm | 1 |
| KL-0214-2203 A | Setting Plate | 1 |
| KL-0041-7306 | Hexagon Socket Screw M6x70mm | 1 |
| KL-0039-1912-3 | Shoulder Nut, M12 (flat) | 1 |
| KL-1283-1016 | Hexagon Socket Screw M8x30mm | 2 |



4 pcs.



KL-0214-181

(Code 3267695)

Set of Sleeves for Silentbloc VW-Audi

Fits VW Golf V, VI, VII, VIII, Passat (B6), EOS (1F), Scirocco III (13_), Tiguan (5N_), Touran (1T1/2, 1T3, 5T1), T-Roc (A11); Audi A3 (8V, 8Y); Seat Leon (5F); Škoda Octavia (5E3/5/6, NL3, NR3); etc.

For quick and professional removal and installation of the front silentbloc on the front axle wishbone.

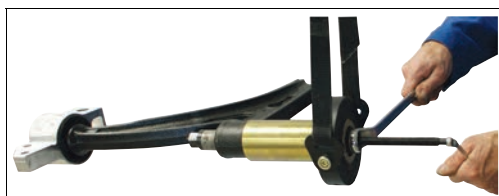
Required Drive Parts (See chapter Drives):

Hydraulic Drive:

KL-0040-2500 Hydraulic Cylinder 17t, **KL-0215-35** M25 Hydraulic Pump, **KL-0039-1912-1** Draw Spindle, **KL-0039-2112-2** Quick-Release Nut, **KL-0039-1003** Adapter

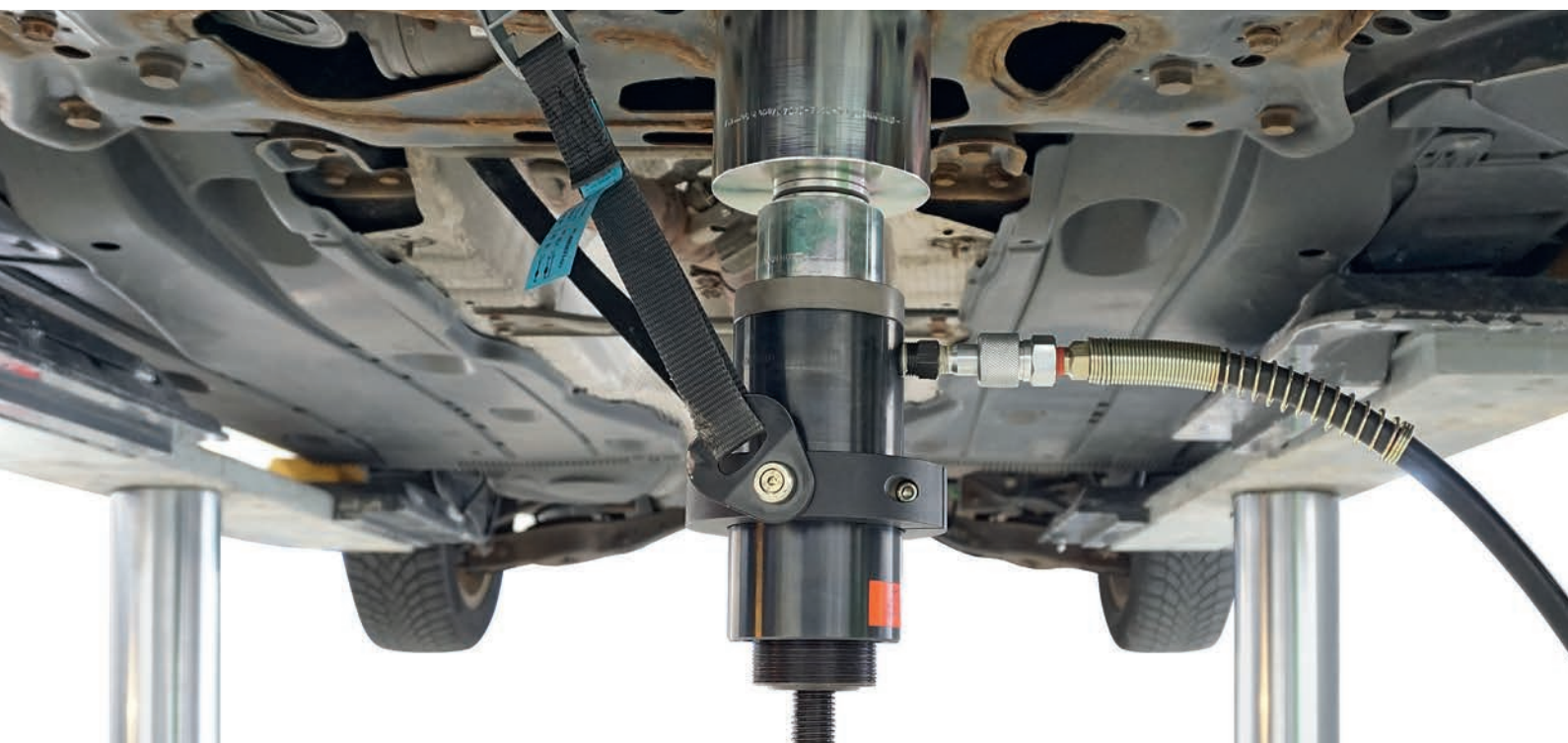
Mechanical Drive:

KL-0039-2212 Spindle with nuts, **KL-0039-1011** Adapter



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 |



2.2 Support Joints, Bearings and Bushings

KL-0220-10 K [Code 2968355] 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).

Alternative tool: T10096, T10227

The tools allow for the professional installation/adjustment of assembly carriers (with fixing bolts 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 silentblocks, wishbone etc.

Technical Data:

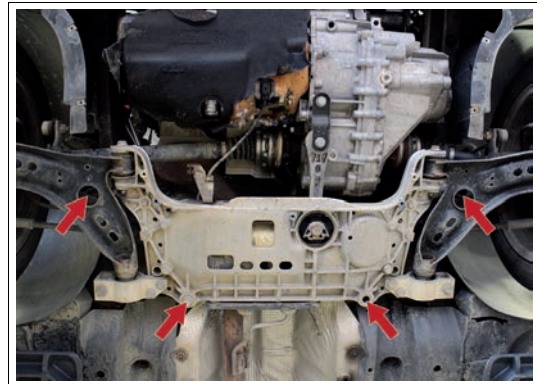
| | |
|-----------------------------------|--------------|
| Max. tightening torque: | 20Nm |
| Fixing bolt thread (KL-0220-101): | M12x1.5 |
| Fixing bolt thread (KL-0220-102): | M14x1.5 |
| Length: | 50mm |
| Drive: | 6mm (in-hex) |

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 |

8 pcs.



KL-0043-11 B [Code 2823306] 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.

Alternative tool: W 140 589 07 43 00, W 201 589 05 43 00, W 202 589 00 43 00

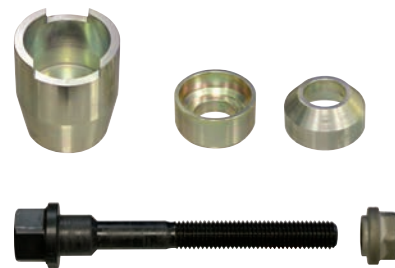
The KL-0043-11 B pulling device enables the fast, simple and safe removal and installation of the joint bushes that are found on rear axle wheel bearing housings, without the need for removing the latter from the vehicle.

Scope of Delivery:

KL-0043-11 B Pulling Device for Joint Bushes, Mercedes

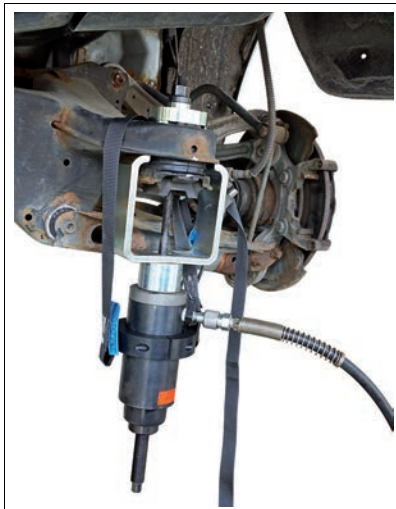
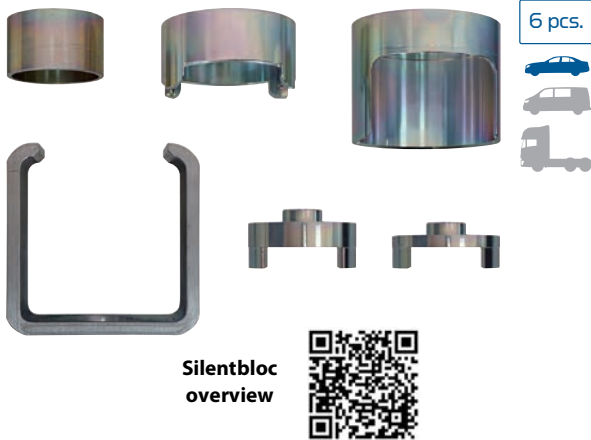
| Part No. | Description | Qty |
|---------------|-------------------|-----|
| KL-0043-110 A | Housing | 1 |
| KL-0043-1102 | Spindle | 1 |
| KL-0352-1003 | Thrust Piece | 1 |
| KL-0043-1104 | Thrust Piece | 1 |
| KL-0043-1105 | Shoulder Nut, M14 | 1 |

5 pcs.



2. Axle Repair

2.2 Support Joints, Bearings and Bushings



KL-0356-141 Sleeve Kit (W204)

[Code 3268071]

Applicable to the front and rear silentblocs at the rear axle carrier as found in: Mercedes C-Class (W204, S204, C204 [up to vehicle identification number A116835], X204), E-Class (W212, S212) + (C207), CLS (W218), SL (R231 [front silentbloc only]).

Alternative tools: W 204 589 00 43 00, W 205 589 00 43 00

The sleeve kit allows for the quick removal and installation of the front and rear silentblocs from/to the rear axle carrier in situ on the vehicle. Thanks to this tool, the rear axle carrier only needs to be lowered slightly, thus eliminating the need for the time-consuming dismantling of the rear axle carrier.

Required Drive Parts:

Hydraulic Drive:

KL-0215-35 M25 Hydraulic Pump, **KL-0040-2500** Hydraulic Cylinder (17t), **KL-0039-1912-1** Pull Spindle (M12), **KL-0039-2112-2** Quick-Action Clamping Nut (M12), **KL-0039-1003** Retaining Adaptor, for Hydraulic Cylinder

Mechanical Drive:

KL-0039-2012-1 Pull Spindle (M12), **KL-0039-1912-2** Shoulder Nut (M12), **KL-0039-2112-2** Quick-Action Clamping Nut (M12), **KL-0039-1011** Retaining Adaptor

Technical Data:

| | |
|---------------------|----|
| Max. load capacity: | 7t |
|---------------------|----|

Scope of Delivery:

KL-0356-141 - Sleeve Kit (W204)

| Part No. | Description | Qty |
|--------------|--|-----|
| KL-0356-1411 | Thrust Piece, Ø 99mm | 1 |
| KL-0356-1412 | Thrust Piece, Ø 87mm | 1 |
| KL-0356-1413 | Press/Support Sleeve, Ø 105mm/Ø 85mm | 1 |
| KL-0356-1414 | Thrust Piece, Ø 80mm | 1 |
| KL-0356-1415 | Counter-Holder, 93mm | 1 |
| KL-0039-1674 | Press/Support Sleeve, short, Ø 74mm/Ø 66mm | 1 |

Silentbloc overview



3 pcs.



KL-0356-142 Upgrade Kit, Rear Axle Carrier (W204)

[Code 3274209]

Applicable to the lower spring link silentblocs at the rear axle carrier as found in: Mercedes C-Class (W204, S204, C204, X204), E-Class (W212, S212) + (C207), CLS (W218), SL (R231).

Alternative Tools: W 204 589 04 43 00, W 220 589 01 43 00

Used in conjunction with the **KL-0326-1000** press frame and the necessary drive parts, the upgrade kit allows for the quick removal and installation of the lower spring link silentbloc from/to the rear axle carrier in situ on the vehicle. Thanks to this tool, the time-consuming dismantling of the rear axle carrier is not necessary.

When dismantling the spring link, it occurs quite often that the fixing bolt breaks off inside the silentbloc. As a result, the removal by means of a pull spindle is no longer feasible. The use of our special **KL-0326-1000** press frame in conjunction with the appropriate pressure spindle dispenses with the need for a pull spindle when removing the silentbloc.

Note: Alternatively, the removal of the spring link silentbloc can also be carried out without the use of the **KL-0326-1000** press frame and **KL-0039-1930** Pressure Spindle. In this case, however, the silentbloc must feature a clearance hole and the **KL-0039-1772** support sleeve (accessory) will be needed in addition.

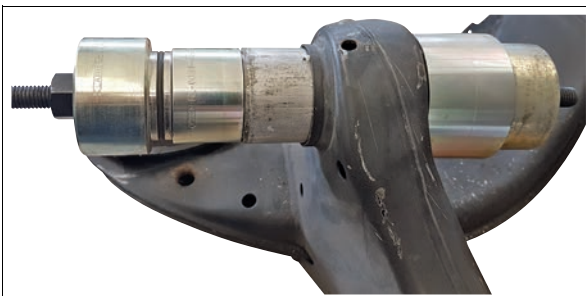
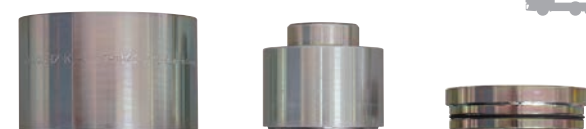
Required Drive Parts:

Hydraulic Drive:

KL-0215-35 M25 Hydraulic Pump, **KL-0040-2500** Hydraulic Cylinder (17t), **KL-0039-1930** Pressure Spindle (M20), **KL-0039-2112-2** Quick-Action Clamping Nut (M12), **KL-0039-1912-1** Pull Spindle (M12), **KL-0039-1003** Retaining Adaptor, **KL-0326-1000** Press Frame

Mechanical Drive:

KL-0174-620 Spindle (M20), **KL-0174-853** Thrust Piece, **KL-0174-547** Adaptor, **KL-0039-2012-1** Pull Spindle (M12), **KL-0039-1912-2** Shoulder Nut, **KL-0039-2112-2** Quick-Action Clamping Nut, **KL-0039-1011** Retaining Adaptor, **KL-0326-1000** Press Frame



Scope of Delivery:

KL-0356-142 Upgrade Kit, Rear Axle Carrier (W204)

| Part No. | Description | Qty |
|--------------|---------------------------------------|-----|
| KL-0356-1421 | Press Sleeve, removal, Ø 50/42mm | 1 |
| KL-0039-1672 | Press Sleeve, installation, Ø 72/64mm | 1 |
| KL-0326-1111 | Adaptor Ring 1, with O-Ring | 1 |

2.2 Support Joints, Bearings and Bushings

KL-0610-150 A (Code 2940264)

Pressing Device without Hydraulic Cyl., Silentbloc, Rear Axle, Ford/Volvo

Suitable for the silentblocs that are found at the rear axle trailing arm on: **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.

Technical Data:

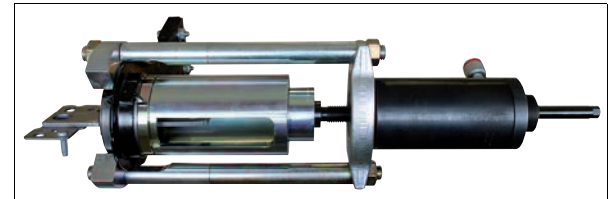
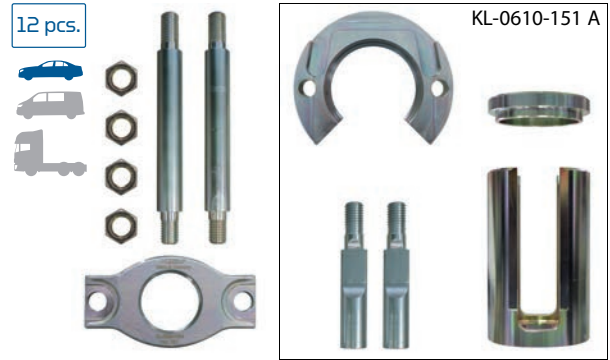
| | |
|---------------------------------|---------|
| Pressure sleeve outer diameter: | Ø 90mm |
| Internal length (press frame): | 245.5mm |
| External length (press frame): | 332mm |

Scope of Delivery: KL-0610-150 A Pressing Device without Hydraulic Cylinder

| Part No. | Description | Qty |
|----------------------|--------------------------------|----------|
| KL-0610-151 A | Upgrade Kit, Ford/Volvo | 1 |
| KL-0039-1144 | Base Plate, 2¼"-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 |



Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive (17t):

KL-0040-2500 Hydraulic Cyl. (17t), **KL-0215-35 M25** Hydr. Pump, **KL-0039-1002** Retaining Adaptor, **KL-0039-1930** Pressure Spindle

Hydraulic Drive (28t):

KL-0040-2800 Hydraulic Cyl. (28t), **KL-0215-35 M28** Hydr. Pump, **KL-0039-1004** Retaining Adaptor, **KL-0040-2855** Adaptor, **KL-0040-2812-1** Draw/Thrust Spindle, **KL-0040-2812-5** Pressure Nut

Mechanical Drive:

KL-0039-1002 Retaining Adaptor, **KL-0174-831** Mechanical Drive Set

KL-0610-131 A (Code 2922509)

Set of Sleeves, 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.**

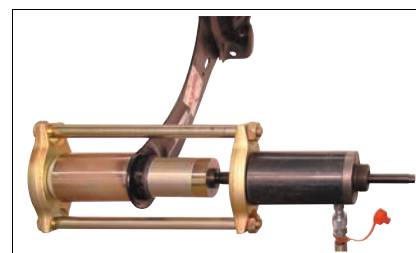
Enables quick and safe removal and installation of the silentbloc found at rear axle trailing arms.

Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1140** Press Frame, **KL-0039-1930** Pressure Spindle, **KL-0039-1002** Retaining Adaptor

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 |



KL-0610-134 (Code 3292789)

Set of Sleeves Ford Focus III (Silentbloc Rear Axles)

Fits on the silentbloc of the rear axle trailing arm of Ford Focus (III), C-MAX (II), Grand-C-Max (II), Kuga (II), and Volvo V40.

To press in and out the silentbloc on the rear axle trailing arm rapidly and professionally.

Scope of Delivery: KL-0610-134 Set of Sleeves Ford Focus III

| Part No. | Description | Qty |
|----------------|--|-----|
| KL-0610-1311 A | Pressure sleeve Ø 59.3 / 52mm (Ford Focus III) | 1 |
| KL-0610-1341 | Support sleeve Ø 70 / 66.5mm (Ford Focus III) | 1 |



Required Drive Parts (see chapter Drives):

Hydraulic Drive:

KL-0040-2500 Hydraulic Cyl. 17t, **KL-0215-35 M25** Hydr. Pump, **KL-0039-1140** Press Frame, **KL-0039-1930** Thrust Spindle, **KL-0039-1002** Retaining Adapter

Mechanical Drive:

KL-0039-1140 Press Frame (Lightweight, Short Design), **KL-0174-620** Spindle, **KL-0174-547** Adapter, **KL-0174-853** Thrust Piece, **KL-0039-1002** Retaining Adapter

2. Axle Repair

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft



KL-4999-200 C (Code 3256332) Modular Workstation 'MODULO 200 C'

Universal application.

The Mobile Modular Workstation 'MODULO 200 C' combines a sturdy mobile workbench with a cleverly designed modular tool system, thus providing you with a highly functional and mobile workplace equipped with a unique assortment of tools for the fast, organised and cost-effective replacement of wheel bearings, silentblochs, suspension ball joints, bushings etc.

The workbench, with its large and 30mm thick beech multiplex worktop, offers the ideal work surface. Four full-width drawers provide lots of storage space. The lateral push handle and the two smooth-running, ball-bearing-mounted swivel castors (125mm) with total brake, ensure the easy and mobile use of the trolley/workbench. The 4 extra-wide drawers feature a soft-close mechanism and a central lock designed to prevent any unintentional opening. Each of the drawers has a load capacity of up to 70kg and is fully extendable to allow for easy access to the tools. The sophisticated "one-drawer-at-a-time" interlock mechanism prevents the simultaneous opening of several drawers and, as a result, the trolley from tilting/tipping over.

Content Modulo:



The Modulo includes:

- Hydraulic Drive (17t Hydr. Cyl. and Hydr. Pump)
- Drive Parts (Slide Hammer Puller and various Spindles)
- Press-/Support Sleeves, Ø 30 - 90mm (long and short)
- Pressure Rings, Ø 54 - 96mm and Centring Rings, Ø 25 - 80mm
- Press Frame Kit
- Wheel Hub Puller (mechanical and hydraulic)
- Wheel Hub Bearing Installation Tool Set

Specifications:

- Dimensions: H 985 x W 1200 x D 635mm
- Full-width drawers (W 998 x D 474mm), fully extendable, removable
- Total load capacity in stationary use: 1000kg, in mobile use: 750kg
- Side walls provided with 10x38mm Euro standard perforation for hooks and tool holders
- 2 rolller-bearing-mounted GEDORE high-performance wheels (fixed castors with 200mm Ø)
- 2 ball-bearing-mounted GEDORE smooth-running wheels (swivel castors with 125mm Ø), both with total brake
- Sheet steel, corrosion-resistant, scratch-proof powder-coated, GEDORE blue

Scope of Delivery:

KL-4999-200 C Mobile Modular Workstation 'MODULO 200 C'

| Part No. | Description | Qty |
|----------------|--|-----|
| KL-4999-120 A | Workshop Trolley/Workbench (without tools) | 1 |
| KL-0039-191 EA | Spindle/Drive Tool Kit | 1 |
| KL-0039-160 E | Press/Support Sleeve Set, Ø 30 - 90mm | 1 |
| KL-0039-170 E | Press/Support Sleeve Set, Ø 30 - 90mm | 1 |
| KL-0039-1161 E | Press Frame Kit | 1 |
| KL-0039-8131 E | Wheel Bearing Tool Set I | 1 |
| KL-0039-814 E | Wheel Bearing Tool Set II | 1 |
| KL-0174-150 E | Puller Set (KL-0174 Series) | 1 |
| KL-0041-380 EA | Wheel Hub Puller | 1 |
| KL-0041-480 EA | Wheel Bearing Tool | 1 |
| KL-0326-161 E | Hydraulic Press Tool Set | 1 |
| KL-0040-2500 | Hydraulic Cylinder, 17t | 1 |
| KL-4999-1205 | MODULO Drawer Divider, 80mm | 6 |
| KL-0215-35 M25 | Hydraulic Hand Pump, with Pressure Gauge | 1 |



2.3 Wheel Bearings, Wheel Hubs and Drive Shaft

KL-4999-2000 C (Code 3285286) Modular Workstation 'MODULO 2000 C'

Universal application.

Description see **KL-4999-200 C**.

Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump

Scope of Delivery:

KL-4999-2000 C Mobile Modular Workstation 'MODULO 2000 C'

| Part No. | Description | Qty |
|----------------|--|-----|
| KL-4999-120 A | Workshop Trolley/Workbench (without tools) | 1 |
| KL-0039-191 EA | Spindle/Drive Tool Kit | 1 |
| KL-0039-160 E | Press/Support Sleeve Set, Ø 30 - 90mm | 1 |
| KL-0039-170 E | Press/Support Sleeve Set, Ø 30 - 90mm | 1 |
| KL-0039-1161 E | Press Frame Kit | 1 |
| KL-0039-8131 E | Wheel Bearing Tool Set I | 1 |
| KL-0039-814 E | Wheel Bearing Tool Set II | 1 |
| KL-0174-150 E | Puller Set (KL-0174 Series) | 1 |
| KL-0041-380 EA | Wheel Hub Puller | 1 |
| KL-0041-480 EA | Wheel Bearing Tool | 1 |
| KL-0326-161 E | Hydraulic Press Tool Set | 1 |
| KL-4999-1205 | MODULO Drawer Divider, 80mm | 6 |

248 pcs.



KL-4999-210 A (Code 3256863) Modular Workstation 'MODULO 210 A'

Universal application.

Description see **KL-4999-200 C**.

Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump

Scope of Delivery:

KL-4999-210 A Mobile Modular Workstation 'MODULO 210 A'

| Part No. | Description | Qty |
|----------------|--|-----|
| KL-4999-120 A | Workshop Trolley/Workbench (without tools) | 1 |
| KL-0039-190 EA | Spindle/Drive Tool Kit | 1 |
| KL-0039-8131 E | Wheel Bearing Tool Set I | 1 |
| KL-0039-814 E | Wheel Bearing Tool Set II | 1 |
| KL-0039-160 E | Press/Support Sleeve Set, Ø 30 - 90mm, short | 1 |
| KL-0039-170 E | Press/Support Sleeve Set, Ø 30 - 90mm, long | 1 |
| KL-4999-1205 | MODULO Drawer Divider, 80mm | 4 |

161 pcs.



2. Axle Repair

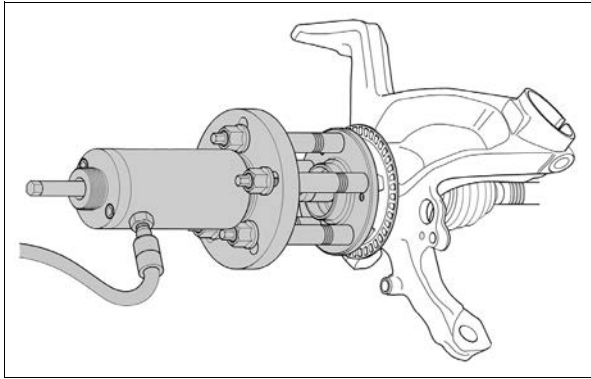
2.3 Wheel Bearings, Wheel Hubs and Drive Shaft



49 pcs.



Necessary Accessories: KL-0215-35 M25 Hydraulic Pump



KL-8041-100 A

(Code 3005798)

Premium Wheel Bearing Tool Kit Package

Suitable for VW-Audi, BMW, Ford, Seat, Skoda, Opel/Vauxhall etc.

The **KL-8041-100 A** Premium Wheel Bearing Tool Kit Package allows for the quick, precise and safe removal/installation of wheel bearings, wheel hubs, half-shafts and drive shafts. Even wheel bearings that are heavily seized or rusted in place can be removed without any trouble with the aid of the hydraulic cylinder.

Composed of:

KL-0039-0110 K Wheel Bearing Tool Set (with Mechanical Drive)

Application: VW-Audi, BMW, Ford, Seat, Škoda, Opel/Vauxhall, etc. Designed for the quick, safe and professional removal and installation of wheel bearings.

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.

KL-0049-31 Slide Hammer Puller (4.8kg), with Adaptor 2¼"-14 UNS to M18

Designed to extract wheel hubs, half-shafts, drive shafts, brake drums etc.

KL-0174-911 Upgrade Kit (Drive Shaft Removal)

Designed to press out drive shafts..

KL-0039-802 Hydraulic Drive Kit without Hydraulic Cylinder

This kit is designed to hydraulically operate the wheel bearing tool sets, indispensable for heavily seized wheel bearings.

KL-0040-2500 Hydraulic Cylinder, 17t

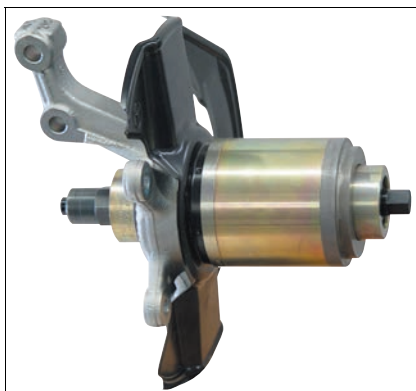
Thanks to its special design as a hollow piston cylinder, the hydraulic cylinder can be used to perform pulling as well as pushing operations.

Scope of Delivery: KL-8041-100 A Premium Wheel Bearing Tool Kit Package

| Part No. | Description | Qty |
|----------------|--|-----|
| KL-0174-110 | Puller Set | 1 |
| KL-0039-0110 K | Wheel Bearing Tool Set (with Mechanical Drive) | 1 |
| KL-0049-31 | Slide Hammer Puller (4.8 kg), with Adaptor 2¼"-14 UNS to M18 | 1 |
| KL-0039-802 | Hydraulic Drive Kit without Hydraulic Cylinder | 1 |
| KL-0040-2500 | Hydraulic Cylinder, 17t | 1 |
| KL-0174-911 | Upgrade Kit (Drive Shaft Removal) | 1 |



25 pcs.



KL-0039-0110 K

(Code 1998056)

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.

Recommended Accessory (Hydraulic Drive):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump,

KL-0039-802 Hydraulic Drive Kit

Scope of Delivery: KL-0039-0110 K 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 |
| KL-0039-0119 | Plastic Storage Case | 1 |

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft

KL-0039-8131 E (Code 2842742) Wheel Bearing Tool Set 1 (Base Set), in a Foam Insert

Suitable for VW-Audi, BMW, Ford, Seat, Škoda, Opel/Vauxhall etc.

For the quick, safe and professional removal and installation of wheel bearings. The special design of the pressure discs enables safe and accurate centring when replacing a wheel bearing. When removing and mounting the wheel bearing, it ensures that the pressing force will be applied on the outer bearing race only. When installing the wheel hub, it also ensures that the pressing force will only be distributed on the inner bearing race. This prevents damage to the new wheel bearing during installation.

The combination of the centring rings and pressure rings creates pressure pieces which can be adapted to fit accurately the respective bearing \varnothing .

Necessary Drive Parts (cf. Chapter Drives):

Hydraulic Drive:

KL-0215-35 M25 Hydraulic Pump, **KL-0040-2500** Hydraulic Cylinder (17t),
KL-0039-1002 Retaining Adaptor, **KL-0039-1011** Retaining Adaptor,
KL-0039-2120 Pull Spindle with Quick-Action Clamping Nut

Mechanical Drive:

KL-0039-1002 Retaining Adaptor, **KL-0039-1011** Retaining Adaptor,
KL-0040-3008 Pull Spindle, **KL-0039-2120-2** Quick-Action Clamping Nut

Tool Storage System:

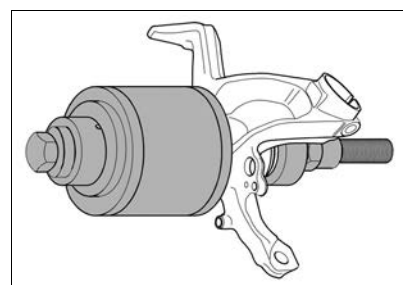
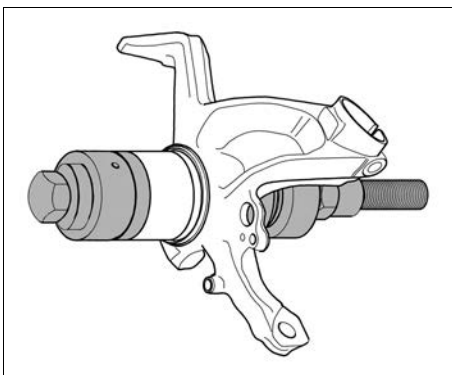
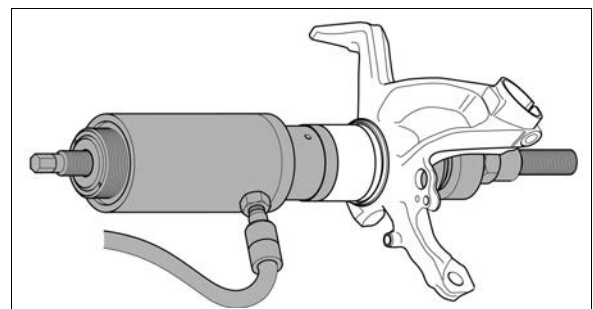
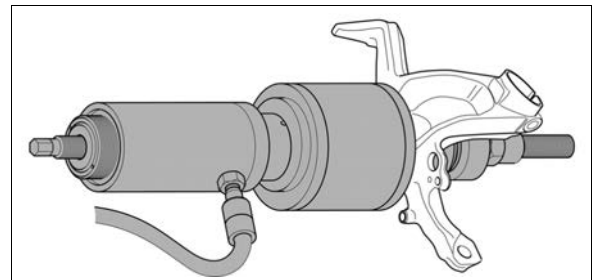
KL-4999-1392 - Plastic Storage Case

Scope of Delivery:

KL-0039-8131 E Wheel Bearing Tool Set 1 (Base Set), in a Foam Insert

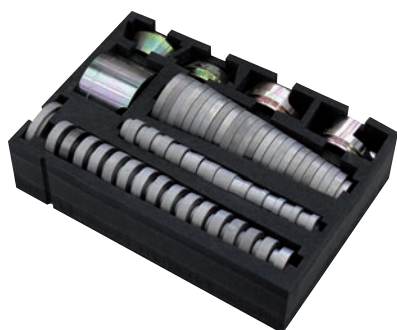
| Part No. | Description | Qty |
|--------------|-----------------------------------|-----|
| KL-0039-1260 | Pressure Ring, \varnothing 60mm | 1 |
| KL-0039-1264 | Pressure Ring, \varnothing 64mm | 1 |
| KL-0039-1268 | Pressure Ring, \varnothing 68mm | 1 |
| KL-0039-1272 | Pressure Ring, \varnothing 72mm | 1 |
| KL-0039-1274 | Pressure Ring, \varnothing 74mm | 1 |
| KL-0039-1280 | Pressure Ring, \varnothing 80mm | 1 |
| KL-0039-1282 | Pressure Ring, \varnothing 82mm | 1 |
| KL-0039-1285 | Pressure Ring, \varnothing 85mm | 1 |
| KL-0039-1296 | Pressure Ring, \varnothing 96mm | 1 |
| KL-0039-1334 | Centring Ring, \varnothing 34mm | 1 |
| KL-0039-1338 | Centring Ring, \varnothing 38mm | 1 |
| KL-0039-1339 | Centring Ring, \varnothing 39mm | 1 |
| KL-0039-1340 | Centring Ring, \varnothing 40mm | 1 |
| KL-0039-1341 | Centring Ring, \varnothing 41mm | 1 |
| KL-0039-1342 | Centring Ring, \varnothing 42mm | 1 |
| KL-0039-1343 | Centring Ring, \varnothing 43mm | 1 |
| KL-0039-1345 | Centring Ring, \varnothing 45mm | 1 |
| KL-0039-1401 | Bearing Cover | 1 |
| KL-0039-1402 | Housing | 1 |
| KL-0039-1413 | Centring Ring, \varnothing 70mm | 1 |
| KL-0039-1414 | Centring Ring, \varnothing 75mm | 1 |
| KL-0039-1415 | Centring Ring, \varnothing 80mm | 1 |
| KL-0039-1506 | Centring Ring, \varnothing 60mm | 1 |
| KL-4999-1313 | Foam Insert | 1 |

23 pcs.



2. Axle Repair

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft



58 pcs.



KL-0039-814 E

(Code 2840901)

Wheel Bearing Tool Set 2, in a Foam Insert

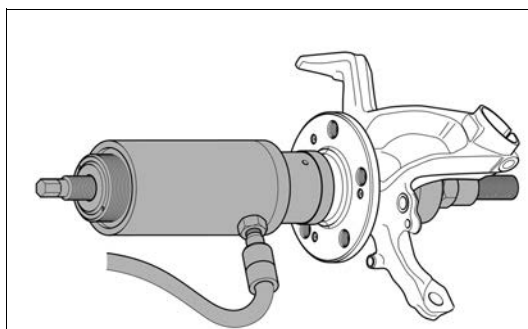
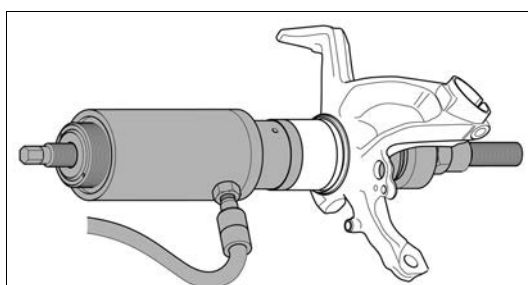
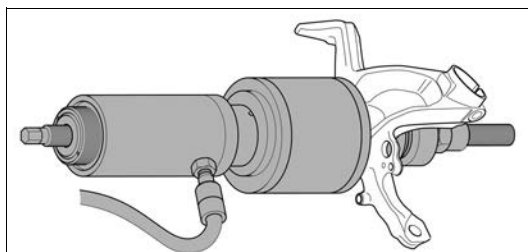
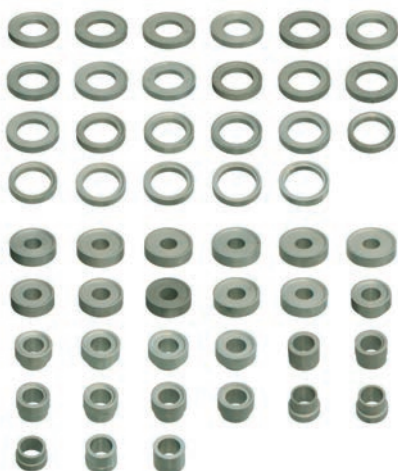
These tools are designed to be used in conjunction with the **KL-0039-8131** tool set and the necessary drive parts, for pressing out and pressing in wheel bearings.

Tool Storage System:

KL-4999-1392 Plastic Storage Case

Scope of Delivery:

KL-0039-814 E Wheel Bearing Tool Set 2, in a Foam Insert



| Part No. | Description | Qty |
|--------------|----------------------------|-----|
| KL-0039-1254 | Pressure Ring, Ø 54mm | 1 |
| KL-0039-1261 | Pressure Ring, Ø 61mm | 1 |
| KL-0039-1262 | Pressure Ring, Ø 62mm | 1 |
| KL-0039-1263 | Pressure Ring, Ø 63mm | 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-0039-1269 | Pressure Ring, Ø 69mm | 1 |
| KL-0039-1270 | Pressure Ring, Ø 70mm | 1 |
| KL-0039-1271 | Pressure Ring, Ø 71mm | 1 |
| KL-0039-1273 | Pressure Ring, Ø 73mm | 1 |
| KL-0039-1275 | Pressure Ring, Ø 75mm | 1 |
| KL-0039-1276 | Pressure Ring, Ø 76mm | 1 |
| KL-0039-1277 | Pressure Ring, Ø 77mm | 1 |
| KL-0039-1278 | Pressure Ring, Ø 78mm | 1 |
| KL-0039-1279 | Pressure Ring, Ø 79mm | 1 |
| KL-0039-1281 | Pressure Ring, Ø 81mm | 1 |
| KL-0039-1283 | Pressure Ring, Ø 83mm | 1 |
| KL-0039-1284 | Pressure Ring, Ø 84mm | 1 |
| KL-0039-1286 | Pressure Ring, Ø 86mm | 1 |
| KL-0039-1287 | Pressure Ring, Ø 87mm | 1 |
| KL-0039-1288 | Pressure Ring, Ø 88mm | 1 |
| KL-0039-1289 | Pressure Ring, Ø 89mm | 1 |
| KL-0039-1290 | Pressure Ring, Ø 90mm | 1 |
| KL-0039-1325 | Centring Ring, Ø 25mm | 1 |
| KL-0039-1326 | Centring Ring, Ø 26mm | 1 |
| KL-0039-1327 | Centring Ring, Ø 27mm | 1 |
| KL-0039-1328 | Centring Ring, Ø 28mm | 1 |
| KL-0039-1329 | Centring Ring, Ø 29mm | 1 |
| KL-0039-1330 | Centring Ring, Ø 30mm | 1 |
| KL-0039-1331 | Centring Ring, Ø 31mm | 1 |
| KL-0039-1332 | Centring Ring, Ø 32mm | 1 |
| KL-0039-1333 | Centring Ring, Ø 33mm | 1 |
| KL-0039-1335 | Centring Ring, Ø 35mm | 1 |
| KL-0039-1336 | Centring Ring, Ø 36mm | 1 |
| KL-0039-1337 | Centring Ring, Ø 37mm | 1 |
| KL-0039-1344 | Centring Ring, Ø 44mm | 1 |
| KL-0039-1346 | Centring Ring, Ø 46mm | 1 |
| KL-0039-1347 | Centring Ring, Ø 47mm | 1 |
| KL-0039-1348 | Centring Ring, Ø 48mm | 1 |
| KL-0039-1349 | Centring Ring, Ø 49mm | 1 |
| KL-0039-1350 | Centring Ring, Ø 50mm | 1 |
| KL-0039-1351 | Centring Ring, Ø 51mm | 1 |
| KL-0039-1352 | Centring Ring, Ø 52mm | 1 |
| KL-0039-1353 | Centring Ring, Ø 53mm | 1 |
| KL-0039-1354 | Centring Ring, Ø 54mm | 1 |
| KL-0039-1355 | Centring Ring, Ø 55mm | 1 |
| KL-0039-1356 | Centring Ring, Ø 56mm | 1 |
| KL-0039-1357 | Centring Ring, Ø 57mm | 1 |
| KL-0039-1358 | Centring Ring, Ø 58mm | 1 |
| KL-0039-1359 | Centring Ring, Ø 59mm | 1 |
| KL-0039-1360 | Centring Ring, Ø 60mm | 1 |
| KL-0039-1501 | Centring Ring | 1 |
| KL-0039-1503 | Adaptor Ring (conical) | 1 |
| KL-0039-1504 | Adaptor Ring (conical) | 1 |
| KL-0039-1505 | Adaptor Ring (cylindrical) | 1 |
| KL-0039-1509 | Adaptor Ring (cylindrical) | 1 |
| KL-0039-1403 | Housing | 1 |
| KL-4999-1314 | Foam Insert | 1 |

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft

KL-0039-1413 [Code 2354578]

Centring Ring, Ø 70mm

For supporting/centring the housing of the wheel bearing tool on the wheel bearing housing (knuckle).



KL-0039-1414 [Code 2354683]

Centring Ring, Ø 75mm

For supporting/centring the housing of the wheel bearing tool on the wheel bearing housing (knuckle).



KL-0039-1415 [Code 2354802]

Centring Ring, Ø 80mm

For supporting/centring the housing of the wheel bearing tool on the wheel bearing housing (knuckle).



KL-0039-807 B [Code 3291154]

Support Ring Set

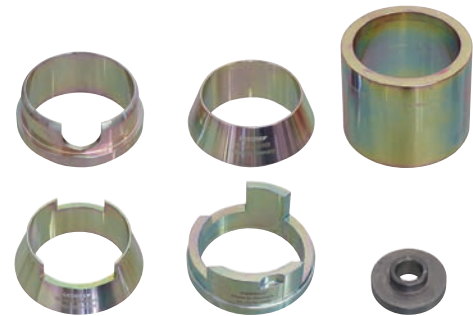
Fits universally for cars and vans.

When removing and installing wheel bearings, there is usually the problem of a very small bearing surface or an uneven bearing surface on the rear of the wheel bearing housing. A support is therefore not possible by the standard housings and centring rings of the **KL-0039-..Series**.

The special support ring kit enables a safe support of wheel bearing housings with a very small contact surface or uneven contact surfaces, for example due to the ABS sensor.

Unevenness on the contact surface on the wheel bearing housing can be easily bridged by means of the special recesses on the support rings.

6 pcs.



Consisting of:

KL-0039-1402 Housing:

Outside-Ø: 104mm
Inside-Ø: 84mm / 90mm
Height: 85mm

KL-0039-1505 Support Ring, Cylindrical:

Outside-Ø 104mm
Inside-Ø: 84mm
Height: 53mm

KL-0039-1503 Support Ring, Conical

Outside-Ø: 99mm
Inside-Ø: 74mm
Height: 39mm

KL-0039-1506 Centring Ring:

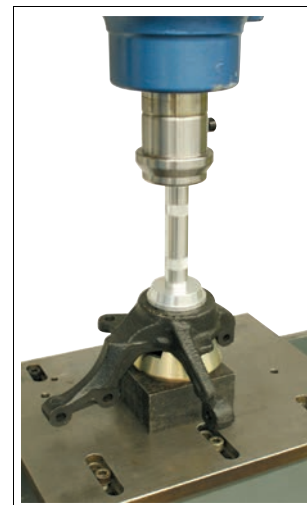
Outside-Ø 60mm
Inside-Ø: 20.5mm
Height: 20mm

KL-0039-1504 Support Ring, Conical:

Outside-Ø: 99mm
Inside-Ø: 74mm
Height: 44mm

KL-0039-1509 Support Ring, Cylindrical:

Outside-Ø 104mm
Inside-Ø: 85mm
Height: 45mm



KL-0192-5 [Code 1811207]

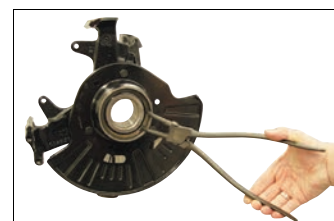
Circlip Pliers, Ø 40-100mm

Due to the 45° angled tips, this tool is ideal for inside circlips. Required for gearbox and wheel bearing repairs.



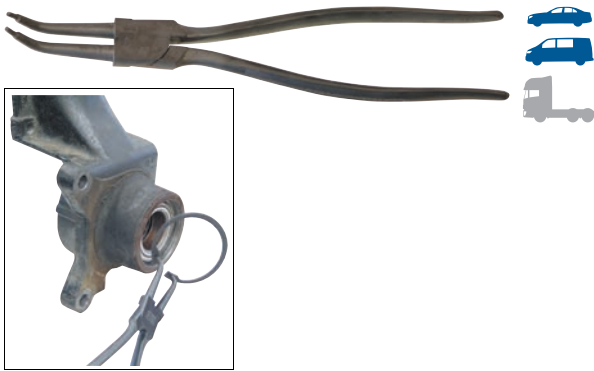
Technical Data:

| | |
|---------|-------|
| Tip Ø: | 2.5mm |
| Length: | 220mm |
| Weight: | 220g |



2. Axle Repair

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft



KL-0192-6

[Code 1754076]

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-0039-213

[Code 2362619]

Sleeve Set, Mercedes W639 Rear Axle

Suitable for Mercedes Benz Vito/Viano (W639) rear axle. (bearing external Ø 92mm/internal Ø50 mm).

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 bearing Ø.

Necessary Drive Parts (cf. Chapter Drives):

KL-0215-35 M25 Hydraulic Pump, KL-0040-2500 Hydraulic Cylinder (17t),

KL-0039-1920 Pull Spindle, KL-0039-1002 Retaining Adaptor,

KL-0039-1003 Retaining Adaptor

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-0192-20 KA

[Code 3027236]

Retaining Ring Removal Tool Set, PSA

Suitable for use on 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.

Recommended Accessory:

8314-160 JC Side cutter

Scope of Delivery:

KL-0192-20 KA Retaining Ring Removal Tool Set, PSA

| Part No. | Description | Qty |
|---------------|----------------------|-----|
| KL-0192-201 | Base Tool | 1 |
| KL-0192-202 | Hook | 1 |
| KL-0192-203 A | Pulling Lever | 1 |
| KL-0192-204 | Punch | 1 |
| KL-0192-2090 | Plastic Storage Case | 1 |

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft

KL-0041-740 E (Code 2841460) Wheel Bearing Tool Kit, in a Foam Insert

Suitable for VW-Audi, Seat, Škoda vehicles.

Front axle:

Compact wheel hub bearing units (85mm bearing Ø) on Audi A3 (8P), Škoda Octavia estate car (1Z), VW Eos, Passat (3C), Golf (V), Tiguan and Touran; compact wheel bearings (85mm bearing Ø) 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).

Rear axle:

Compact wheel bearings on Audi A4 Quattro (8E), A5 Quattro (8T), A6 Quattro (4G), A7 Quattro (4G), Q5 Quattro (8R).

The **KL-0041-740 E** wheel bearing tool kit enables 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 for the removal of mounting flanges from two-piece compact wheel bearings. The removal of the steering knuckle/stub axle is not necessary.

Necessary Drive Parts (cf. Chapter Drives):

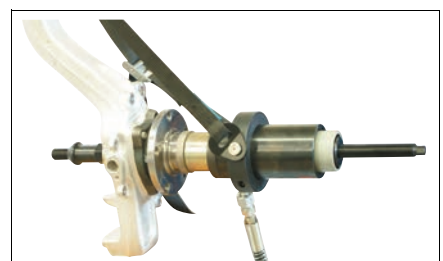
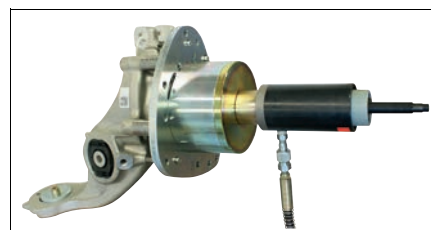
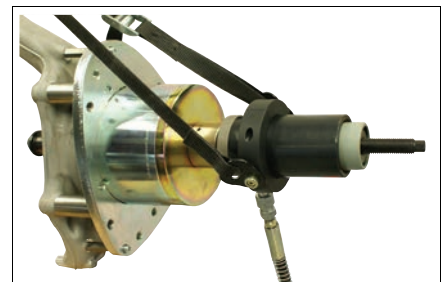
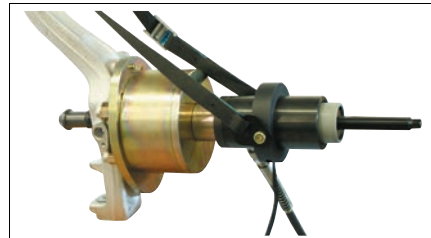
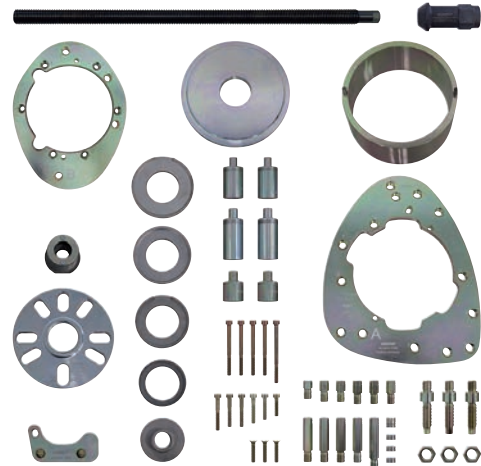
KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-1920-1** Pull Spindle, **KL-0039-1002** Retaining Adaptor, **KL-0039-1003** Retaining Adaptor

Scope of Delivery:

KL-0041-740 E Wheel Bearing Tool Kit, in a Foam Insert

| Part No. | Description | Qty |
|----------------|------------------------------|-----|
| KL-0039-1920-4 | Clamping Nut, Ø 38mm | 1 |
| KL-0041-7101 | Cover | 1 |
| KL-0041-7102 | Support Sleeve with Pins | 1 |
| 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-0041-7120 | Countersunk Screw, M6x30mm | 3 |
| KL-0039-1265 | Pressure Ring, Ø 65mm | 1 |
| KL-0039-1506 | Centring Ring, Ø 60mm | 1 |
| KL-0041-7206 | Spacer Sleeve, 8mm | 3 |
| KL-0041-7203 | Support Plate | 1 |
| KL-0041-7204 | Spacer Bolt, M12, 15mm | 2 |
| KL-0041-7207 | Spacer Sleeve, 14mm | 1 |
| KL-0041-7211 | Spacer Bolt, M12, 55mm | 1 |
| KL-0041-7302 | Spacer Bolt, M12, 45mm long | 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-0041-7306 | Cheese Head Screw, M6x70mm | 4 |
| KL-0055-0012 | Cheese Head Screw, M6x25mm | 1 |
| KL-0041-7213 | Cheese Head Screw, M6x80mm | 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-0039-2020-1 | 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 |
| KL-4999-1320 | Foam Insert | 1 |

55 pcs.



2. Axle Repair

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft



13 pcs.



KL-0040-860

(Code 2372290)

Wheel Bearing Tool Set, Ford Transit

Applicable to all Ford Transit/Tourneo (Models 2000-2006 / 2006-2014 / from 2014-..) with brake disc fixing bolts, pitch circle \varnothing 97.5mm and 111mm; also suitable for use on the front axle of Tourneo vehicles with front-wheel drive and rear-wheel drive respectively.

The wheel bearing tool set enables wheel bearings on the front axle to be removed and installed quickly and without any trouble. To replace a brake disc or a wheel bearing, it is usually necessary to pull the wheel bearing along with the hub and brake disc from the steering knuckle. Thanks to this tool, the removal and installation of the wheel bearing can be carried out in situ on the vehicle within just a few minutes, without having to dismantle the suspension strut.

Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2812-1** Pull/Pressure Spindle (M24x590), **KL-0040-2812-2** Clamping Nut

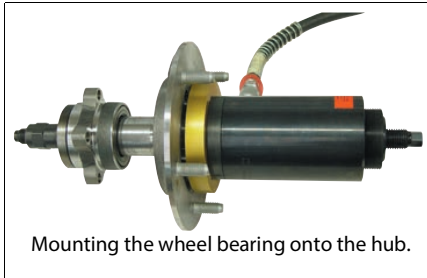
Scope of Delivery: KL-0040-860 Wheel Bearing Tool Set, Ford Transit

| Part No. | Description | Qty |
|----------------|-----------------------------------|-----|
| KL-0040-8601 | Pressure Disc, \varnothing 77mm | 1 |
| KL-0040-8602 | Pressure Disc, \varnothing 68mm | 1 |
| KL-0040-8501 A | Pressure Ring | 1 |
| KL-0039-1823-4 | Cheese Head Screw, M10x120mm | 5 |
| KL-0040-8503 | Mandrel | 5 |

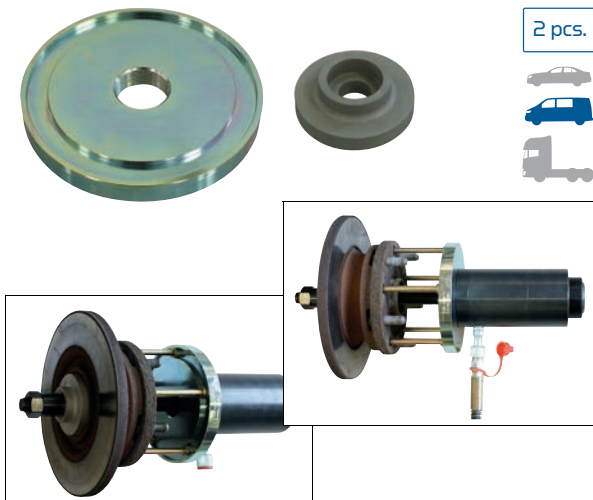
Recommended Accessory:

KL-0040-861 Upgrade Kit, Ford Transit Rear Axle

KL-0040-862 Supplementary Set Ford Transit; Closed Wheel Bearings



Mounting the wheel bearing onto the hub.



2 pcs.



KL-0040-861

(Code 2700972)

Upgrade Kit, Ford Transit Rear Axle

Fits with the front axle on Ford Transit/Tourneo (2000-2006 / 2006-2014 / 2014 onwards) with front-wheel drive and a pitch circle \varnothing of 160mm of the brake disc fixing bolts.

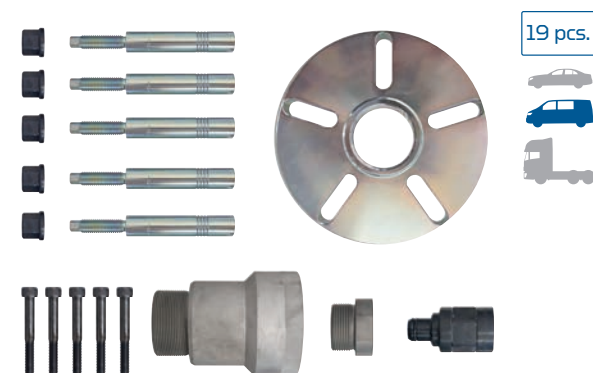
The supplementary kit enables the wheel hub bearing unit on the brake disc of the rear axle to be forced off quickly and professionally. For example, this is required when replacing the wheel bearing and brake discs, as these are located behind the wheel hub.

Required Tool Kit + Drive Parts:

KL-0040-860 Wheel Bearing Tool Set, Ford Transit, **KL-0040-2800** Hydr. Cyl. (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2812-1** Pull/Pressure Spindle (M24x590), **KL-0040-2812-2** Clamping Nut

Scope of Delivery: KL-0040-861 Upgrade Kit, Ford Transit Rear Axle

| Part No. | Description | Qty |
|----------------|------------------------------------|-----|
| KL-0040-8611 | Pressure Disc, \varnothing 93mm | 1 |
| KL-0040-8612 A | Pressure Ring, \varnothing 210mm | 1 |



19 pcs.



KL-0040-862

(Code 3292770)

Upgrade Kit Ford Transit; Closed Wheel Bearings

Fits with the front axle on Ford Transit/Tourneo (2006-2014 / 2014 onwards) with rear-wheel drive and a pitch circle \varnothing of 97.5mm and 111mm of the brake disc fixing bolts. Particularly suitable for vehicles with wheel bearing units without centre bore in closed design on the front axle.

This supplementary kit enables the removal of the bolted wheel bearing unit with wheel hub and brake disc on the front axle, especially for wheel bearings without centre bore in closed design, and subsequently the removal and pressing in of the wheel hub on the wheel bearing unit. Required, for example, when replacing the wheel bearing and brake discs, as these are located behind the wheel hub.

Scope of Delivery: KL-0040-862 - Upgrade Kit Ford Transit; Closed Wheel Bearings

| Part No. | Description | Qty |
|----------------|-----------------------------|-----|
| KL-0174-330 | Hole disc size 3 (5-hole) | 1 |
| KL-0040-2812-5 | Thrust nut M24 | 1 |
| KL-0040-8621 | Thrust adapter | 1 |
| KL-0174-572 | Adapter 2 1/4" to 2 3/4" | 1 |
| KL-0174-764 A | Draw bolt type M, M14x1.5mm | 5 |
| KL-0174-701 | SK collar nut M14 | 5 |
| KL-0186-9000-3 | Cap screw M10 x 75mm | 5 |

Required Set of Tools + Drive Parts:

KL-0040-860 Wheel Hub Tool Set; Ford Transit,

KL-0040-2800 Hydraulic Cylinder 28t,

KL-0215-35 M28 Hydraulic Pump,

KL-0040-2812-1 Draw/Thrust Spindle M24x590,

KL-0040-2812-2 Tensioning Nut

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft

KL-0041-380 EA (Code 3277631) Wheel Hub Puller, in a Foam Insert

Universally suitable for wheel hub bearing units as well as wheel hubs and wheel bearings having a \varnothing of up to 250mm.

For the quick, safe and accurate removal of wheel hub bearing units as well as wheel hubs and wheel bearings from the wheel bearing housing (knuckle). Thanks to its sturdy design, the wheel hub puller can be subjected to **up to 17 tons**, thus even wheel hub bearing units, wheel hubs and wheel bearings that are bonded, seized or corroded in place are no longer an issue.

Necessary Drive Parts:

Hydraulic Drive:

KL-0215-35 M25 Hydraulic Pump, **KL-0040-2500** Hydraulic Cylinder (17t), **KL-0039-1003** Adaptor, **KL-0039-1920-1** Pull Spindle

Mechanical Drive:

KL-0039-1011 Retaining Adaptor, **KL-0039-2030** Pull Spindle

Mechanical Drive (Forcing off the cardan shaft, for wheel hubs with a flat contact surface at the rear): GEDORE Pressure Spindle **1.2606280KS** (Code:1546910)

Tool Storage System:

KL-4999-1391 Plastic Storage Case

Note:

KL-0041-380 A Wheel Hub Puller

Like the **KL-0041-380 EA**, however, supplied without Foam Insert.

Note:

To prevent the quick-release nut from opening under load, secure it by the collar together with a suitable pressure/support sleeve, an adaptor, or a retaining ring.

Technical Data:

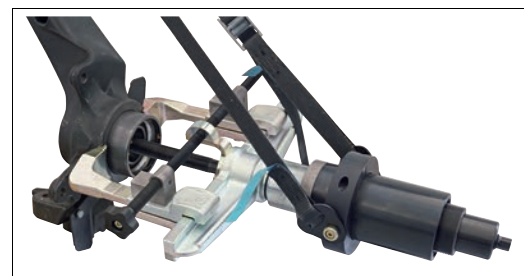
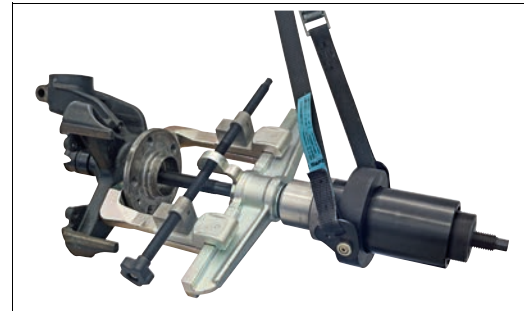
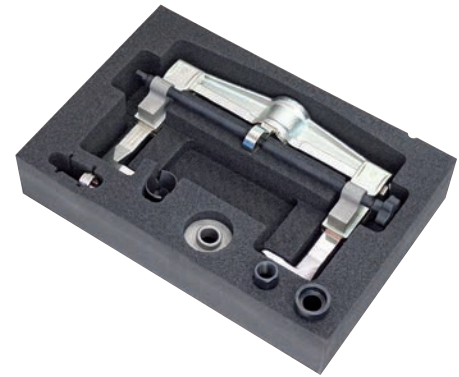
| | |
|---|-------------|
| Max. spread: | up to 250mm |
| Max. load capacity: | 17t * |
| * in conjunction with pressure spindle (1.2606280KS): | 7t |

Scope of Delivery:

KL-0041-380 EA Wheel Hub Puller, in a Foam Insert

| Part No. | Description | Qty |
|----------------|---|-----|
| KL-0041-3800 A | Wheel Hub Puller (Base Tool with Adjusting Spindle) | 1 |
| KL-0214-2202 | Spacer Ring, \varnothing 30mm | 1 |
| KL-0041-3812 | Clamping Nut, \varnothing 30mm | 1 |
| KL-0039-2192 | Conical Adaptor, \varnothing 37mm | 1 |
| KL-0039-2120-2 | Quick-Action Clamping Nut, M20 | 1 |
| KL-0039-1506 | Pressure Ring, \varnothing 60mm | 1 |
| KL-4999-1315 | Foam Insert | 1 |

6 pcs.



2. Axle Repair

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft



KL-0041-480 EA

(Code 3126404)

Wheel Bearing Tool Kit, in a Foam Insert

Suitable for vehicles having a bearing \varnothing of 62mm: Audi A2, VW Lupo etc.; bearing \varnothing of 66mm: e.g. VW Polo from 2002 onwards, Škoda Fabia from 2000 onwards etc; bearing \varnothing of 72mm: e.g. Audi A2 from 2000 onwards, Seat Ibiza from 2002 onwards, Škoda Fabia from 2000 onwards, VW Polo from 2002 onwards and Fox, etc; bearing \varnothing of 78mm: e.g. Ford Focus II, C-Max (from 10/2003 onwards); Mazda 3 (from 10/2003 to 06/2009) Volvo C30, C70 II, S40 II, V50; bearing \varnothing of 82mm: e.g. Ford S-Max (from 2006 onwards), Galaxy (from 2006 onwards), Mondeo IV (from 2006 onwards); Volvo S60 II, S80 II, V60, V70 III (from 10/2007 onwards), XC60, XC70 II; bearing \varnothing of 85mm: e.g. VW T5 front and rear axle, VW Touareg / Porsche Cayenne front axle.

The **KL-0041-480 EA** wheel bearing tool kit enables the quick, safe and accurate installation of wheel hub bearing units (both with and without snap ring).

Thanks to its special design, this tool ensures that during the installation process the applied pressing force will only be distributed on the outer bearing race 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 set.

Necessary Drive Parts (cf. Chapter Drives):

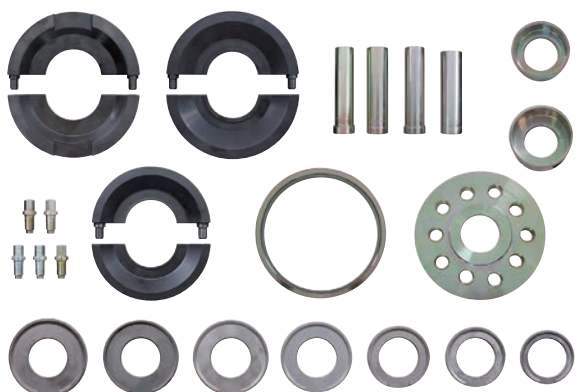
KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump, **KL-0039-2120** Pull Spindle with Quick-Action Clamping Nut

Recommended Accessory:

KL-0041-380 EA Wheel Hub Puller

Tool Storage System:

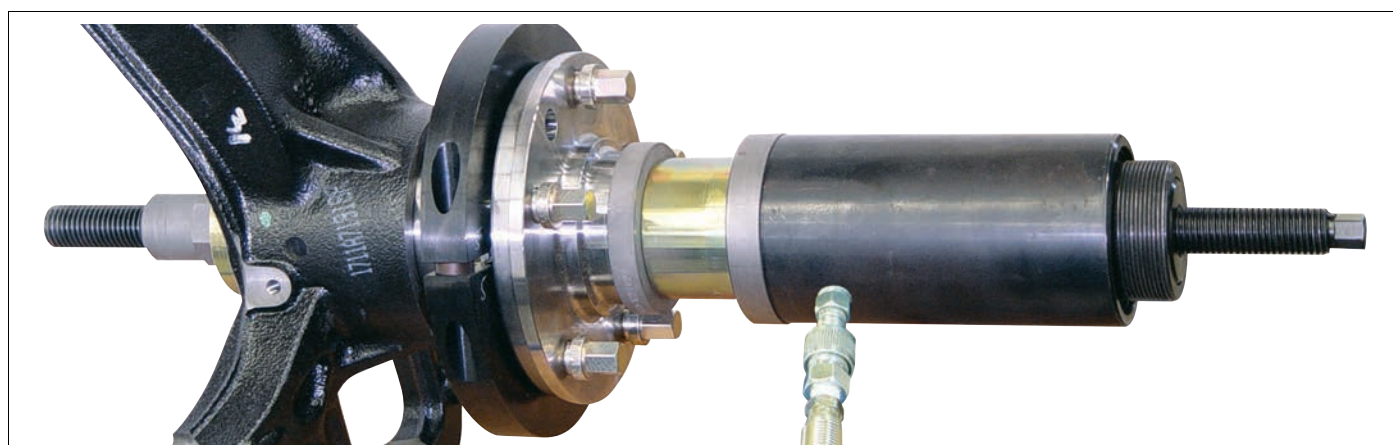
KL-4999-1392 Plastic Storage Case



Scope of Delivery:

KL-0041-480 EA Wheel Bearing Tool Kit, in a Foam Insert

| Part No. | Description | Qty |
|----------------|---|-----|
| KL-0039-1265 | Pressure Ring, \varnothing 65mm | 1 |
| KL-0039-1272 | Pressure Ring, \varnothing 72mm | 1 |
| KL-0039-1273 | Pressure Ring, \varnothing 73mm | 1 |
| KL-0039-1283 | Pressure Ring, \varnothing 83mm | 1 |
| KL-0039-1288 | Pressure Ring, \varnothing 88mm | 1 |
| KL-0039-1289 | Pressure Ring, \varnothing 89mm | 1 |
| KL-0039-1502 | Pressure Ring, \varnothing 93mm | 1 |
| KL-0039-1674 | Pressure/Support Sleeve, short, \varnothing 74/66mm | 1 |
| KL-0039-1682 | Pressure/Support Sleeve, short, \varnothing 82/74mm | 1 |
| KL-0039-1802 | Centring Sleeve, long, \varnothing 27.4mm | 1 |
| KL-0039-1803 | Centring Sleeve, long, \varnothing 29.7mm | 1 |
| KL-0041-3931 | Pressure Screw, M14x1.5 | 5 |
| KL-0041-4400 C | Clamping Shells (Pair), \varnothing 72mm | 1 |
| KL-0041-4500 B | Clamping Shells (Pair), \varnothing 85mm | 1 |
| KL-0041-4600 D | Clamping Shells (Pair), \varnothing 78mm | 1 |
| KL-0041-4601 | Pressure/Support Sleeve, long, \varnothing 30/22mm | 1 |
| KL-0041-4602 | Guide Sleeve, \varnothing 26.3mm | 1 |
| KL-0041-4607 | Housing | 1 |
| KL-0041-4608 D | Cap | 1 |
| KL-4999-1317 A | Foam Insert | 1 |



2.3 Wheel Bearings, Wheel Hubs and Drive Shaft

KL-0041-441 C (Code 2985535) Wheel Bearing Installation Tool, 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 upgrade kit **KL-0041-441 C** enables the quick and safe installation of wheel hub bearing units (both with and without snap ring) without the risk of damaging them. Thanks to its special design, this tool ensures that during the installation process the applied pressing force will only be distributed on the outer bearing race 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 set.

Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump,

KL-0039-2120 Pull Spindle with Quick-Action Clamping Nut,

KL-0039-1002 Retaining Adaptor, **KL-0039-1003** Retaining Adaptor

Recommended Accessory:

KL-0041-380 EA Wheel Hub Puller

Technical Data:

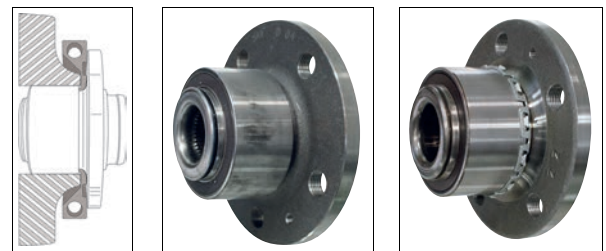
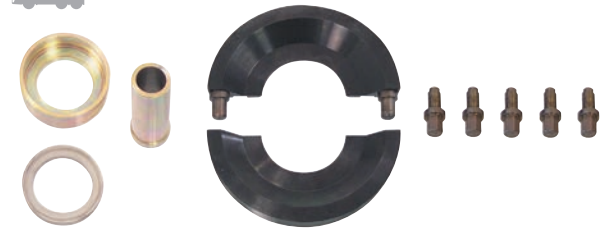
| | |
|---|--------|
| Max. load capacity of pull spindle: | 20t |
| Max. load capacity of hydraulic cylinder: | 17t |
| Weight: | 15.8kg |

Scope of Delivery:

KL-0041-441 C Wheel Bearing Installation Tool, Ø 82mm

| 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 | Press/Support Sleeve, short, Ø 74mm | 1 |

10 pcs.



KL-0041-451 B (Code 2480239) Wheel Bearing Installation Tool, Ø 85mm

Suitable for vehicles with bearing Ø of 85mm (both with and without snap ring); e.g. VW T5 front and rear axle, VW Touareg und Porsche Cayenne front axle.

The upgrade kit **KL-0041-451 B** enables the quick and safe installation of wheel hub bearing units (both with and without snap ring) without the risk of damaging them. Thanks to its special design, this tool ensures that during the installation process the applied pressing force will only be distributed on the outer bearing race 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 set.

Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump,

KL-0039-2120 Pull Spindle with Quick-Action Clamping Nut,

KL-0039-1002 Retaining Adaptor, **KL-0039-1003** Retaining Adaptor

Recommended Accessory:

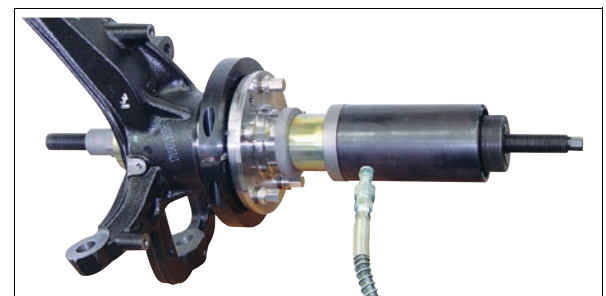
KL-0041-380 EA Wheel Hub Puller

Scope of Delivery:

KL-0041-451 B Wheel Bearing Installation Tool, 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 |

12 pcs.



2. Axle Repair

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft



14 pcs.



KL-0041-461 D

(Code 2756544)

Wheel Bearing Installation Tool, Ø 78/82mm

Suitable for vehicles with bearing Ø of 78mm, e.g. Ford Focus II, C-Max (from 10/03 onwards); Mazda 3 (from 10/03 until 06/09) Volvo C30, C70 II, S40 II, V50 and for vehicles with bearing Ø 82mm, e.g. Ford S-Max (from 2006 onwards), Galaxy (from 2006 onwards), Mondeo IV (from 2006 onwards); Volvo S60 II, S80 II, V60, V70 III (from 10/2007 onwards), XC60, XC70 II.

The upgrade kit **KL-0041-461 D** enables the quick and safe installation of wheel hub bearing units without the risk of damaging them.

Thanks to its special design, this tool ensures that during the installation process the applied pressing force will only be distributed on the outer bearing race 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 set.

Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump,

KL-0039-2120 Pull Spindle with Quick-Action Clamping Nut,

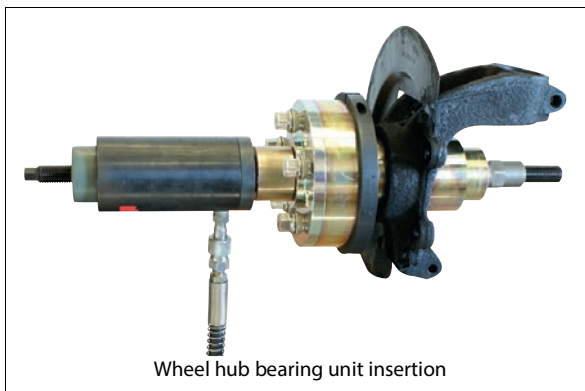
KL-0039-1002 Retaining Adaptor, **KL-0039-1003** Retaining Adaptor

Recommended Accessory: **KL-0041-380 EA** Wheel Hub Puller

Scope of Delivery:

KL-0041-461 D Wheel Bearing Installation Tool, Ø 78/82mm

| 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 | Press/Support Sleeve, short, Ø 82mm | 1 |



Wheel hub bearing unit insertion



34 pcs.



KL-0041-510

(Code 3283690)

Wheel Bearing Tool Kit, Mercedes-Benz 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.

For removing and installing wheel hub bearing units at the front axle in situ on the vehicle.

Due to the particular design of these wheel hub bearing units, conventional removal and installation procedures are no longer feasible. This is because the wheel hub comes without a centre bore and, in addition, covers the outer race of the wheel bearing.

The unique composition and design of this tool kit allows the professional replacement of wheel hub bearing units to be performed in situ on the vehicle.

When installing a wheel hub bearing unit, the tool ensures that the pressure is evenly exerted on the bearing outer race only. This eliminates the risk of damaging the wheel bearing.

Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump

Tool Storage System:

KL-0041-5090 Plastic Storage Case

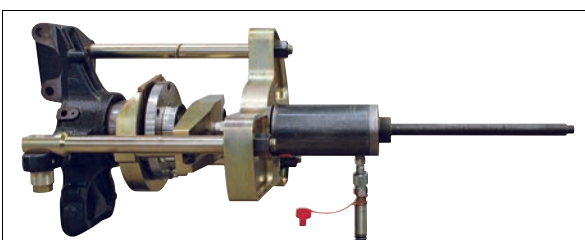
Advantage:

Eliminates the need for follow-up wheel alignments.

Scope of Delivery:

KL-0041-510 Wheel Bearing Tool Kit

| Part No. | Description | Qty |
|--------------|---|-----|
| KL-0041-501 | Wheel Bearing Tool Kit without Cylinder | 1 |
| KL-0041-502 | Pull/Pressure Plate Kit with Bridge, for Bearing Ø 96mm | 1 |
| KL-0041-5030 | Upgrade Kit, Pull/Pressure Plate for Bearing-Ø 92mm | 1 |



2.3 Wheel Bearings, Wheel Hubs and Drive Shaft

KL-0041-800 (Code 3087263) Wheel Bearing Tool Set, Iveco Daily

Applicable to the front axle of Iveco Daily VI vehicles (from 2014 onwards) with rear-wheel drive.

Used in conjunction with an appropriate workshop press, the **KL-0041-800** wheel bearing tool set allows for the quick and professional removal and installation of wheel hubs as well as wheel bearing units on the front axle of Iveco Daily vehicles.

Recommended Accessory: KL-0041-803 Holding Fixture

Technical Data:

| | |
|----------------------|-----|
| Max. load capacity : | 17t |
|----------------------|-----|

Scope of Delivery:

KL-0041-800 Wheel Bearing Tool Set, Iveco Daily

| Part No. | Description | Qty |
|--------------|----------------------------|-----|
| KL-0041-801 | Base Plate | 1 |
| KL-0041-802 | Sleeve Set | 1 |
| KL-0041-7106 | Cheese Head Screw, M6x45mm | 2 |

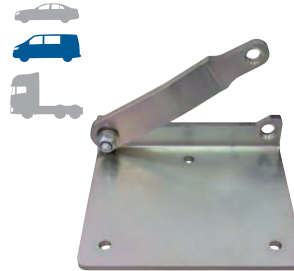
8 pcs.



KL-0041-803 (Code 3089355) Holding Fixture

Applicable to the front axle of Iveco Daily VI vehicles with rear-wheel drive (from 2014 onwards).

The **KL-0041-803** holding fixture allows the wheel hub to be professionally counter-held while loosening/tightening the central fastening nut. The holding fixture needs to be attached to a workbench suitable for this purpose.



KL-0042-96 K (Code 3077489) Inner Bearing Race Puller Set, with Collets in Size 3, 4, 5, 6

Universally suitable for vehicles with inner bearing race Ø of from 44-60mm; e.g. VW-Audi, Ford, Lancia, Mercedes, Renault, Seat und 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. Without suitable tools, it is almost impossible to remove these inner bearing races properly. 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 **KL-0042-96 K** puller set allows inner bearing races with diameters of from 44-60mm to be removed from the wheel hub within just a few minutes.

Recommended Accessory:

KL-0042-9071 - Collet, Size 7 (Ø 60-64mm),

KL-0042-9081 - Collet, Size 8 (Ø 64-68mm),

KL-0042-9091 - Collet, Size 9 (Ø 68-72mm)

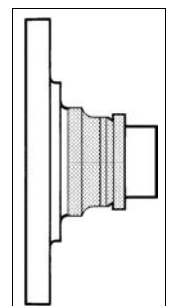
Scope of Delivery: KL-0042-96 K Inner Bearing Race Puller Set

| Part No. | Description | Qty |
|--------------|--------------------------------------|-----|
| KL-0042-900 | Inner Bearing Race Puller, base tool | 1 |
| KL-0042-9031 | Collet, Size 3, Ø 44-48mm | 1 |
| KL-0042-9041 | Collet, Size 4, Ø 48-52mm | 1 |
| KL-0042-9051 | Collet, Size 5, Ø 52-56mm | 1 |
| KL-0042-9061 | Collet, Size 6, Ø 56-60mm | 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 Sleeve | 1 |
| KL-0042-9002 | Handle | 1 |
| KL-0042-9004 | Special Ring Spanner, with Handle, Size 36mm waf | 1 |
| KL-0174-817 | Spindle with Pin, M20x1.5x150 | 1 |
| KL-0174-851 | Thrust Piece, Ø 34mm | 1 |
| KL-0174-854 | Thrust Piece, Ø 48mm | 1 |
| KL-0014-0030 | Molybdenum Disulphide Paste | 1 |

10 pcs.



2. Axle Repair

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft



KL-0042-90..

Collet

This tool set is designed for the precise removal of inner bearing races from the wheel hub.

Necessary Accessories: (included in **KL-0042-96 K**)

KL-0042-900 Inner Bearing Race Puller, base tool

KL-0042-9071

[Code 1878034]

Collet, Size 7

Universally suitable for vehicles with inner bearing race Ø of from 60-64mm.

KL-0042-9091

[Code 2374781]

Collet, Size 9

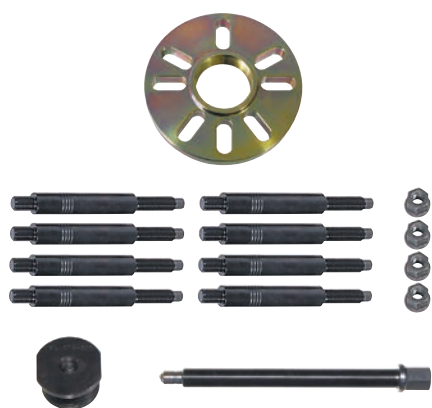
Universally suitable for vehicles with inner bearing race Ø of from 68-72mm.

KL-0042-9081

[Code 2374765]

Collet, Size 8

Universally suitable for vehicles with inner bearing race Ø of from 64-68mm.



15 pcs.



KL-0174-110

[Code 1957740]

Puller Set

Applicable to: VW-Audi, Alfa Romeo, BMW, Fiat, Ford, Mercedes, Opel/Vauxhall, Porsche, Renault, Seat, Škoda, etc.

Alternative tool: Opel/Vauxhall CH-49400, KM-6282

For mechanically forcing out cardan shafts with the M20 pressure spindle, and for taking off the wheel hub, quick-release axle, etc. with an impact extractor. Even bonded, corroded, or very tight-fitting cardan shafts are no problem due to the optional use of the hydraulic cylinder.

Necessary Drive Parts (removal of wheel hubs):

KL-0049-31 Slide Hammer 4.8kg

Recommended Drive Parts (removal of drive shafts):

Hydraulic Drive:

KL-0215-35 M25 Hydraulic Pump, **KL-0040-2500** Hydraulic Cylinder (17t),

KL-0039-1930 Pressure Spindle, **KL-0039-1935** Thrust Piece,

KL-0174-559 Adaptor

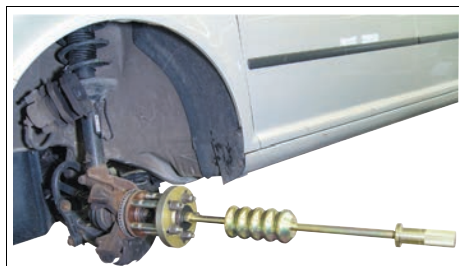
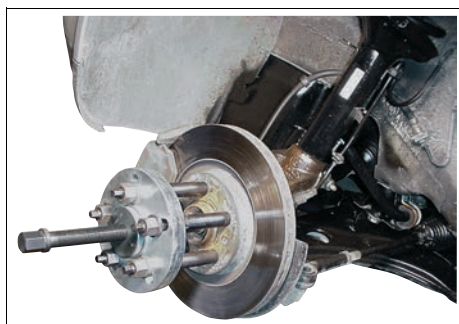
Note:

The universal puller set **KL-0174-110** can easily be upgraded with additional puller discs, adaptors, spindles and puller bolts.

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, M20x2x230 | 1 |



2.3 Wheel Bearings, Wheel Hubs and Drive Shaft

KL-0174-150 E (Code 2841029) Puller Set (for Wheel Hubs etc.), in a Foam Insert

Suitable for VW-Audi, Alfa Romeo, BMW, Citroën, Fiat, Ford, Honda, Hyundai, Jeep, KIA, Lancia, Mazda, Mercedes, Mini, Mitsubishi, Nissan, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Škoda, Smart, Suzuki, Toyota, Volvo etc.

The Puller Set **KL-0174-150 E** is designed for the removal of drive shafts that are bonded with Loctite or stuck due to corrosion. The use of a slide hammer allows the removal of wheel hubs, brake drums and half shafts to be performed in-situ on the vehicle. Due to various combination possibilities and the use of different puller plates, puller bolts and drives, the field of application of the **KL-0174 Puller Series** is almost universal.

Necessary Drive Parts (removal of drive shafts):

Hydraulic Drive:

KL-0040-2500 Hydraulic Cylinder (17t), **KL-0215-35 M25** Hydraulic Pump,
KL-0039-1930 Pressure Spindle, **KL-0174-856** Thrust Piece

Mechanical Drive: KL-0174-831 Mechanical Drive Set

Necessary Drive Parts (removal of wheel hubs):

KL-0049-31 Slide Hammer

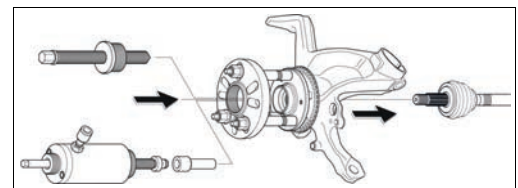
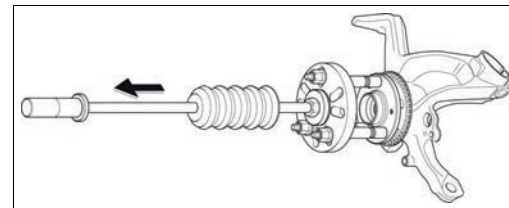
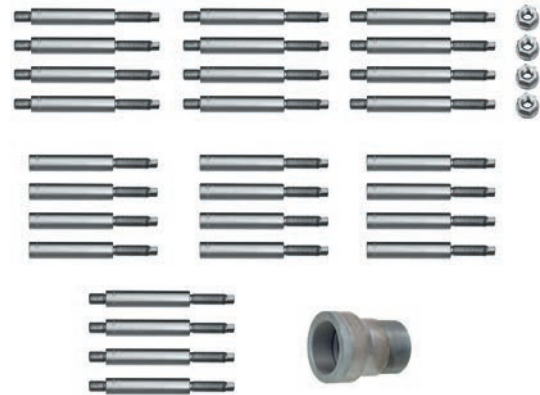
Tool Storage System: KL-4999-1391 Plastic Storage Case

Scope of Delivery:

KL-0174-150 E Puller Set (for Wheel Hubs etc.), in a Foam Insert

| 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-4999-1316 | Foam Insert | 1 |

35 pcs.



KL-0174-240 (Code 1940740) Puller Plate, Size 2 (3-, 4- and 5-hole)

Component for the assembly of a Puller from the Puller-Series KL-0174-...

The puller plate (size 2) can be assembled to an all-purpose puller system by using different adaptors, spindles, puller bolts, screws and drives.

Technical Data:

| | |
|-----------------------|--------------------------|
| Spindle Inner Thread: | 2¼"-14 UNS |
| PCD: | 90-130mm |
| Outer-Ø: | 160mm |
| Fixing Hole Pattern: | 2, 3, 4, 5, 6-hole pitch |



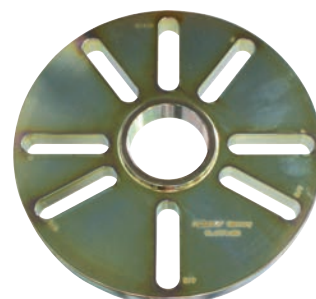
KL-0174-360 (Code 2404176) Puller Plate, Size 3 (3-, 4- and 5-hole)

Component for the assembly of a Puller from the Puller-Series KL-0174-...

The puller plate (size 3) can be assembled to an allpurpose puller-system by using different adaptors, spindles, puller bolts, screws and drives.

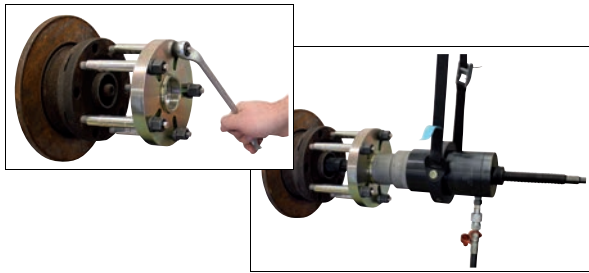
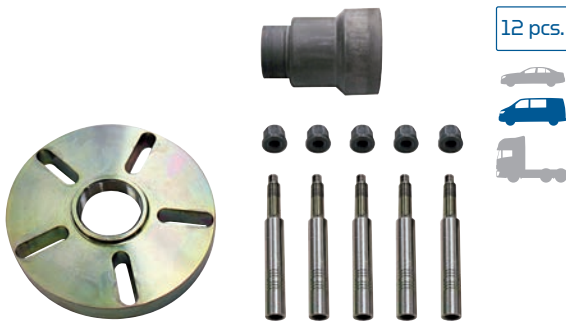
Technical Data:

| | |
|-----------------------|--------------------------|
| Spindle Inner Thread: | 2¼"-14 UNS |
| PCD: | 100-180mm |
| Outer-Ø: | 220mm |
| Fixing Hole Pattern: | 2, 3, 4, 5, 6-hole pitch |



2. Axle Repair

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft



KL-0174-371

(Code 3069680)

Puller Plate Kit, Ford Transit

Applicable to Ford Transit vehicles (model year 2006-2013 + model year 2014-..) equipped with front-wheel drive. Suitable for use on front and rear axle (with pitch circle \varnothing of 160mm).

The hole disc set allows you to quickly and professionally pull a fix wheel hub with brake disc from the kingpin at the rear axle as well as pressing a fix U shaft out of the wheel hub at the front axle. This is for example necessary for renewing the wheel bearing and the brake disc at the rear axle, because these are situated behind the wheel hub. Any work can be carried out directly on the vehicle within a few minutes.

Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump, **KL-0040-2812-1** Pull/Pressure Spindle (M24x590), **KL-0040-2812-5** Pressure Nut (M24), **KL-0174-3701** Pressure Piece (short)

Scope of Delivery: KL-0174-371 Puller Plate Kit, Ford Transit

| Part No. | Description | Qty |
|-------------|----------------------------------|-----|
| KL-0174-330 | Puller Plate, Size 3 | 1 |
| KL-0174-767 | Puller Bolt, Type M, M14 (l=100) | 5 |
| KL-0174-701 | Hex Shoulder Nut, M14 | 5 |
| KL-0174-572 | Adaptor, 2 1/4" to 2 3/4", 28t | 1 |



KL-0174-372

(Code 3292762)

Supplementary Kit for Closed Wheel Bearings, Ford Transit

Fits with the front axle on Ford Trans-it/Tourneo (2006-2014 / 2014 onwards) with rear-wheel drive and a pitch circle \varnothing of 97.5mm and 111mm of the brake disc fixing screws. Particularly suitable for vehicles with wheel bearing units without centre bore in closed design on the front axle.

This supplementary kit enables quick and professional removal of the bolted wheel bearing unit with wheel hub and brake disc on the front axle, as well as subsequent removal and insertion of the wheel hub on the wheel bearing unit, [3:especially for closed wheel bearings without centre bore]. For example, this is required when replacing the wheel bearing and brake discs, as these are located behind the wheel hub. All work can be carried out directly on the vehicle within a few minutes. Time-consuming removal and installation of the wheel bearing housing and a subsequent wheel alignment are not necessary.

Scope of Delivery: Supplementary Kit for Closed Wheel Bearings, Ford Transit

| Part No. | Description | Qty |
|----------------|--------------------|-----|
| KL-0040-8501 A | Thrust ring | 1 |
| KL-0040-8621 | Thrust adapter | 1 |
| KL-0039-1823-4 | Cap screw M10 x 12 | 5 |
| KL-0186-9000-3 | Cap screw M10x75 | 5 |

Required Set of Tools + Drive Parts:

KL-0174-371 Puller Plate Kit, **KL-0040-2812-1** Spindle M24, **KL-0040-2812-5** Pressure Nut, **KL-0174-3701** Pressure Piece, **KL-0040-2800** Hydraulic Cyl. (28t), **KL-0215-35 M28** Hydr. Pump



KL-0174-513

(Code 2404311)

Adaptor, M42x2 to M16x1.5

Component for the assembly of a Puller from the **KL-0174-...Puller-Series**.



KL-0174-545

(Code 1920685)

Adaptor, 2 1/4"-14 UNS to M18

Component for the assembly of a Puller from the **KL-0174-...Puller-Series**.



KL-0174-547

(Code 1878123)

Adaptor, 2 1/4"-14 UNS to M20x2

Component for the assembly of a Puller from the **KL-0174-...Puller-Series**.

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft

KL-0041-5010 (Code 1878123)
Adaptor, 2 1/4"-14 UNS to M42x2

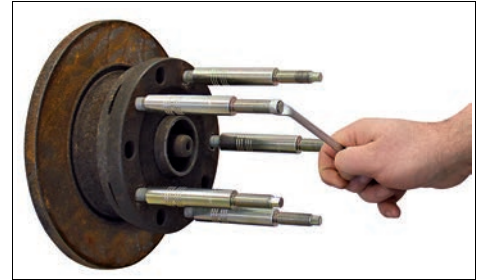
Component for the assembly of a Puller from the **KL-0174-...**Puller-Series.



KL-0174-7...
Puller Bolt, Type M, M14x1.5

Technical Data:

| | |
|------------------------|-------|
| Length without thread: | 100mm |
|------------------------|-------|



KL-0174-722 (Code 1753746)
Puller Bolt Type B, M12x1.25

Outer thread (Wheel bolt system)



KL-0174-723 (Code 1753754)
Puller Bolt, Type B, M12x1.5

Outer thread (Wheel bolt system)



KL-0174-724 (Code 1753762)
Puller Bolt Type B, M14x1.5

Outer thread (Wheel bolt system)



KL-0174-727 (Code 2404931)
Puller Bolt Type B, M14x1.25

Outer thread (Wheel bolt system)



KL-0174-762 (Code 1982540)
Puller Bolt Type M, M12x1.25

Inner thread (Wheel nut system)



KL-0174-763 (Code 1753797)
Puller Bolt Type M, M12x1.5

Inner thread (Wheel nut system)



KL-0174-764 A (Code 2480964)
Puller Bolt, Type M, M14x1.5

Inner thread (Wheel nut system)



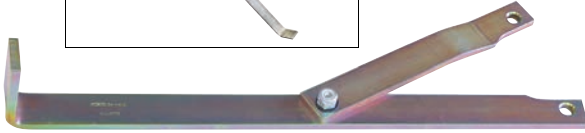
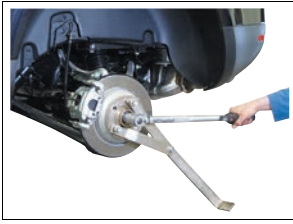
KL-0174-767 (Code 2162261)
Puller Bolt Type M, M14

Inner thread (Wheel nut system)



2. Axle Repair

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft



KL-0115

[Code 2385678]

Wheel Hub Locking Tool

Covers virtually all passenger cars and light commercial vehicles.

Alternative tool: W 136 589 05 31 00, CH-49376, KM-6610

Designed to counter-hold the wheel hub while loosening/tightening the fixing bolts/nuts that are found on front/rear drive shafts or wheel bearings.

Technical Data:

| | |
|---------|-------|
| Length: | 620mm |
|---------|-------|



KL-4031-3518

[Code 1925385]

Socket XZN-M18

Suitable e.g. for Audi A3, VW Polo, Golf V etc.

Alternative tool: T10162

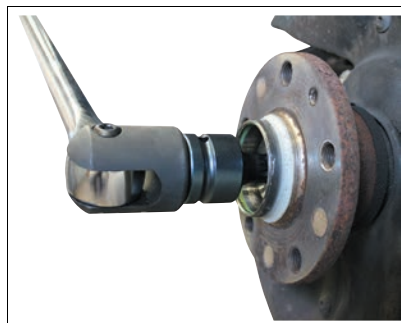
This tool is designed to loosen and tighten rear axle wheel hub bearing unit fixing bolts.

Recommended Accessory:

KL-4007-311 Swivel Head Breaker Bar, 620mm, 4550-30 Torque Wrench 60-300Nm

Technical Data:

| | |
|----------|---------|
| Drive: | 1/2" |
| Profile: | XZN-M18 |
| Length: | 78mm |



KL-4031-4118

[Code 2941562]

Socket, XZN-M18

Suitable for the wheel bearing central screws found at the rear axle of VW-Audi, Seat and Skoda, e.g. VW Arteon, Beetle, Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan, Touran; Audi A3, Q3, TT; Seat Alhambra, Altea, Leon, Toledo; Skoda Kodiaq, Octavia, Superb, Yeti etc.

Alternative tool: T10162A

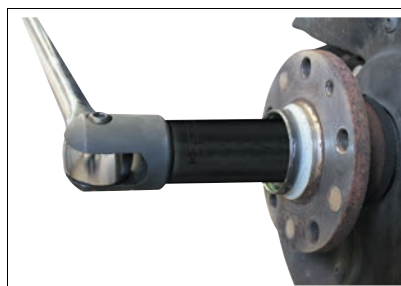
For the loosening and tightening of the wheel bearing central screw (XZN-M18, 3/4") at the rear axle.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm, 4550-40 Torque Wrench 80-400Nm

Technical Data:

| | |
|------------------------|---------|
| Drive: | 3/4" |
| Profile: | XZN-M18 |
| Maximum load capacity: | 800Nm |



KL-4014-4224

[Code 2965917]

Bi-Hex Socket, 24mm

Applicable to VW Arteon, Beetle, Bora, Caddy, Eos, Golf (VI, VII), Jetta, Passat (3C, CC), Scirocco, Sharan, T-ROC, Tiguan, Touran; Audi A1, A3, A4, A5, A6, A7, A8, Q2, Q3, Q5, TT; Seat Alhambra, Ateca, Leon, Toledo, Exeo; Skoda Karoq, Kodiaq, Octavia (1Z), Superb (3T), Yeti 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.

Recommended Accessory:

KL-4007-411 Swivel Head Breaker Bar, 980mm, 4550-40 Torque Wrench 80-400Nm

Technical Data:

| | |
|-------------|--------|
| Length: | 90mm |
| Size (waf): | 24mm |
| Profile: | bi-hex |
| Drive: | 3/4" |
| Diameter: | 36mm |

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft

D 19 L 30 (Code 6145640) Special Bi-Hex Socket, 30mm

Applicable to: BMW 1 Series (F20), 3 Series (E36, E46, E90); Citroën Saxo, C2; Dacia Sandero; Fiat Seicento; Ford Galaxy, Tourneo Connect; Mercedes Citan (W415), 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, Megane IV; 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.

Recommended Accessory:

KL-4007-311 Swivel Head Breaker Bar, 620mm
4550-30 Torque Wrench 60-300Nm



Technical Data:

| | |
|-------------|--------|
| Size (waf): | 30mm |
| Profile: | bi-hex |
| Drive: | 1/2" |
| Length: | 82mm |

D 19 L 32 (Code 6191320) Special Bi-Hex Socket, 32mm

Applicable to: Fiat Panda, Punto, Seicento; Ford Fiesta, Fusion, Focus, Galaxy, Mondeo; Kia Sportage; Mercedes C-Klasse (W204, W205), S-Klasse (W140); Nissan Almera; Opel Astra H, Vivaro; Subaru Outback 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.

Recommended Accessory:

KL-4007-311 Swivel Head Breaker Bar, 620mm
4550-30 Torque Wrench 60-300Nm



Technical Data:

| | |
|-------------|--------|
| Size (waf): | 32mm |
| Profile: | bi-hex |
| Drive: | 1/2" |
| Length: | 82mm |

D 19 L 34 (Code 6147500) Special Bi-Hex Socket, 34mm

Applicable to: Fiat Marea, Lancia Lybra, Renault 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.

Recommended Accessory:

KL-4007-311 Swivel Head Breaker Bar, 620mm
4550-30 Torque Wrench 60-300Nm



Technical Data:

| | |
|-------------|--------|
| Size (waf): | 34mm |
| Profile: | bi-hex |
| Drive: | 1/2" |
| Length: | 82mm |

D 19 36 (Code 2194686) Special Bi-Hex Socket, 36mm

Applicable to: Audi A3, A4, A6, TT; BMW 3 Series (E36), 5 Series (E39, E60), X5; Ford Transit; Jeep Compass; Seat Ibiza, Cordoba; Škoda Fabia (III); Nissan Primera; Porsche Cayenne; VW Polo, Golf (V), Touareg 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.

Recommended Accessory:

KL-4007-311 Swivel Head Breaker Bar, 620mm
4550-30 Torque Wrench 60-300Nm

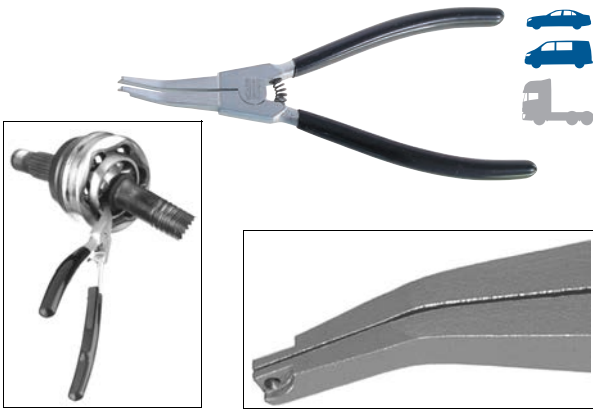


Technical Data:

| | |
|-------------|--------|
| Size (waf): | 36mm |
| Profile: | bi-hex |
| Drive: | 1/2" |
| Length: | 45mm |

2. Axle Repair

2.3 Wheel Bearings, Wheel Hubs and Drive Shaft



KL-0192-12

(Code 1753991)

Circlip Pliers (angled)

Suitable for use on VW-Audi, Mercedes, Opel/Vauxhall, BMW, Ford etc.

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 |



3 pcs.

KL-0192-823

(Code 1920693)

Pliers for Special Safety Rings

Universal application.

Alternative tool: 951-2947

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-0121-90

(Code 1752669)

Hose Clamp Pliers

Suitable for use on Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW, etc.

Alternative tool: 1275, VAS 1275 A

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 limited.

Technical Data:

| | |
|---------|-------|
| Length: | 240mm |
| Weight: | 492g |



KL-0121-96 A

(Code 2910691)

Hose Clamp Pliers
(for use with a Torque Drive)

Suitable for use on VW-Audi, Ford, Opel/Vauxhall etc.

Alternative tool: 1682, MKM-804, VAS 1682 A

This tool is designed to tighten stainless steel clamps on cv-boots to specified tightening torques. A 3/8" torque wrench is recommended as a drive.

Recommended Accessory: 4549-05 Torque Wrench 10-50Nm

Technical Data:

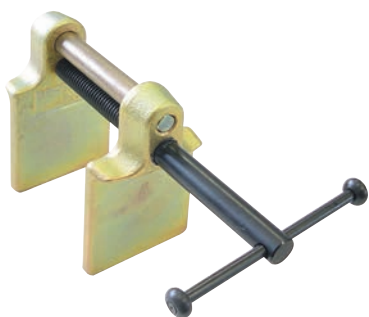
| | |
|---------|-------|
| Weight: | 490g |
| Drive: | 3/8" |
| Length: | 260mm |

Spare Parts: KL-0121-9601 A Jaws (spare pair)



3. Brake Service/Repairs





KL-0111-1 (Code 1752294) Calliper Piston Reset Tool (Narrow Design)

Universally applicable to virtually all vehicles.

Alternative tool: W 000 589 52 43 00, T10145

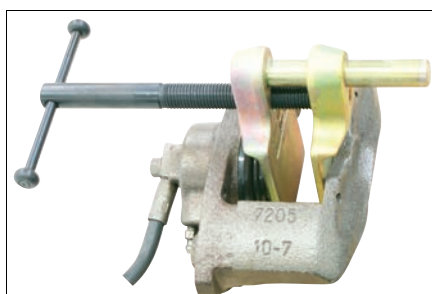
Intended for floating callipers with single piston and fixed callipers with two pistons. This tool allows the user to quickly and professionally reset the brake piston on brake calliper systems without the risk of damaging the junk ring or piston.

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 |



11 pcs.



KL-0112-21 B (Code 3078736) Brake Piston Push-Back/Wind-Back Kit, with 10 Adaptors

Applicable to: Audi, BMW, Citroën, Fiat, Ford, Honda, Mazda, Mitsubishi, Nissan, Opel/Vauxhall, Peugeot, Renault, Seat, Škoda, Subaru, Toyota, VW, etc.

Alternative tool: 3272, T20055A, KM-6007-B

Designed to reset (wind back or push back depending on application) brake pistons in floating callipers. Suitable for both versions, with mechanical parking brake and electronic parking brake.

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.

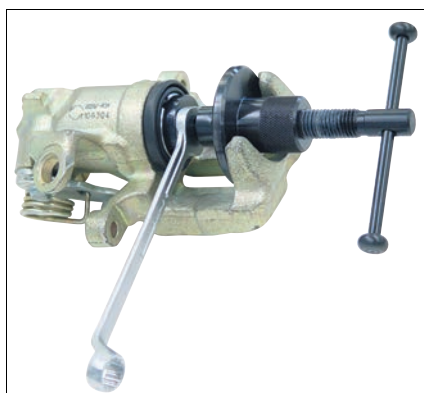
Advantages:

- The handy toggle enables the controlled reset of the brake piston and correct guidance of the adaptor.
- 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 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.
- The adaptors are specifically designed to suit virtually any brake piston application (in profile and outer Ø), this prevents damage to the piston and junk ring when resetting the brake piston.
- Possibility to update this tool set with additional and specifically designed adaptors for the latest vehicles and braking systems.
- Low overall height, no intermediate adaptors necessary.

Recommended Accessory: 7 UR 13 Combination ratchet spanner reversible

Scope of Delivery: KL-0112-21 B 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-0112-0006 | Adapter (12mm hex socket) | 1 |
| KL-0112-0008 | Adaptor, Size 8 | 1 |
| KL-0112-0009 | Adaptor, Size 9 | 1 |
| KL-0112-0010 | Adaptor, Size 10 | 1 |
| KL-0112-0013 | Adaptor, Size 13 | 1 |
| KL-0112-0015 | Adaptor, Size 15 | 1 |
| KL-0112-0016 | Adaptor, Size 16 | 1 |
| KL-0112-0017 | Adaptor, Size 17 | 1 |
| KL-0112-2290 | Plastic Storage Case | 1 |



KL-4021-310 [Code 3405494]

Screwdriver Bit Socket Set, 3/8"

Universally suitable for brake calliper fixing bolts.
For example at VW-Audi, BMW, Mercedes, Volvo etc.

The **KL-4021-310** screwdriver bit socket set is needed for the loosening and tightening of brake calliper fixing bolts.

Technical Data:

| | |
|-------------|--------------|
| Size (waf): | 7 / 9 / 11mm |
| Drive: | 3/8" |
| Length: | 100mm |

3 pcs.



3/8"



KL-0461-10 [Code 1755595]

Pentagon Socket

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.

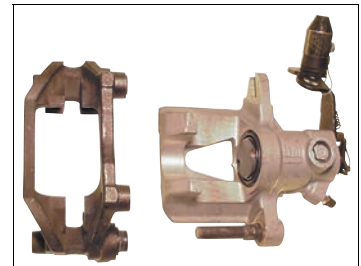
Recommended Accessory: 1993 U-20 Reversible Ratchet

Technical Data:

| | |
|------------------|------|
| Size (pentagon): | 14mm |
| Drive: | 1/2" |



1/2"



KL-1460-1 [Code 1791753]

Pentagon Socket

Suitable for Citroën, Peugeot und Renault.

Designed to dismount brake calipers.

Recommended Accessory: 1993 U-20 Reversible Ratchet

Technical Data:

| | |
|------------------|------|
| Size (pentagon): | 19mm |
| Drive: | 1/2" |



1/2"



KL-0112-90 [Code 3034569]

Socket Set, Brakes

Suitable for retaining bolts on brake callipers as found in the most common car models from Audi, Mercedes and Porsche.

Technical Data:

| | |
|--|------|
| Height: | 50mm |
| Drive: | 1/2" |
| Size (waf) (KL-0112-901): | 11mm |
| Profile/Number of teeth (KL-0112-901): | 10 |
| Size (waf) (KL-0112-902): | 22mm |
| Profile/Number of teeth (KL-0112-902): | 7 |

Scope of Delivery:

KL-0112-90 Socket Set, Brakes

| Part No. | Description | Qty |
|-------------|--------------------------------|-----|
| KL-0112-901 | Socket, 11mm (special profile) | 1 |
| KL-0112-902 | Socket, 22mm (special profile) | 1 |

2 pcs.



1/2"

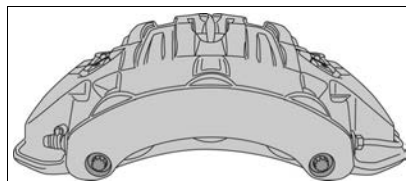




3 pcs.



1/2"



KL-0112-91

[Code 3245616]

Socket Set, Brakes

Suitable for retaining bolts on brake callipers as found in popular car models from Audi, Mercedes and Porsche.

KL-0112-911 = Audi Q7

KL-0112-912 = Audi S8, Q7; Porsche Macan, Cayenne, Cayman

KL-0112-913 = Audi S6, A8; Porsche Cayenne

Recommended Accessory: 1993 U-20 Reversible Ratchet

Technical Data:

| | |
|--|-------|
| Height: | 50 mm |
| Drive: | 1/2" |
| Waf size (KL-0112-911): | 14mm |
| Profile/number of teeth (KL-0112-911): | 7 |
| Waf size (KL-0112-912): | 15mm |
| Profile/number of teeth (KL-0112-912): | 10 |
| Waf size (KL-0112-913): | 20mm |
| Profile/number of teeth (KL-0112-913): | 10 |

Scope of Delivery: KL-0112-91 Socket Set, Brakes

| Part No. | Description | Qty |
|-------------|--------------------------------|-----|
| KL-0112-911 | Socket, 14mm (special profile) | 1 |
| KL-0112-912 | Socket, 15mm (special profile) | 1 |
| KL-0112-913 | Socket, 20mm (special profile) | 1 |



8726

[Code 6770780]

Brake Calliper File

For cleaning brake callipers before installing new brake pads. The file features one rough, diagonally milled side with bevelled edges.



Technical Data:

| | |
|---------|-------|
| Length: | 260mm |
|---------|-------|



643

[Code 6531440]

Brake Calliper Brush

For cleaning brake callipers before installing new brake pads.



Technical Data:

| | |
|-----------------|-------|
| Length: | 220mm |
| Bristle length: | 21mm |
| Weight: | 94g |



KL-0192-7

[Code 1783688]

Circlip Pliers (angled 90°)

For internal circlips on brake callipers and gearboxes, angled 90°.

Technical Data:

| | |
|-------------|-------|
| Length: | 190mm |
| Leg length: | 60mm |



KL-0314-1

[Code 1755234]

Brake Spring Tool, Mercedes

Applicable for Mercedes etc.

Alternative tool: W 112 589 09 61 00

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 |



KL-0114-21 (Code 1752421)

Brake Spring Assembly Hook

Universal application.

Alternative tool: 3436, W 116 589 01 62 00

Designed to remove and install return springs on drum brake systems.

Technical Data:

| | |
|---------|-------|
| Length: | 155mm |
| Weight: | 100g |



KL-0117-51 (Code 2183854)

Pipe Bending Pliers

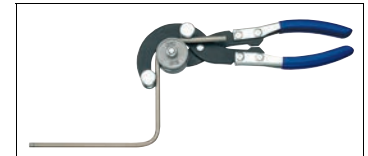
Suitable for copper pipes DIN-EN 1057, non-ferrous metal pipes as well as thin-walled precision steel pipes and brake lines with Ø of from 4.75 to 10mm, (two turnable formers 4.75-6.0mm and 8.0-10.0mm).

Indispensable for the quick and professional bending of brake pipes. Bending of up to 90° possible.

Technical Data:

| | |
|----------------|-------------|
| Weight: | 530g |
| Length: | 260mm |
| Pipe diameter: | 4.75-10.0mm |

3 pcs.



400 10x11 (Code 6057270)

Brake Pipe Spanner

Universally applicable.

Used for loosening and tightening screwed brake pipe connections.

Technical Data:

| | |
|---------------|---------|
| Size (waf): | 10/11mm |
| Ring angle: | 15° |
| Total length: | 150mm |
| Drive: | hex |



137 7-11 (Code 2325322)

Grip wrench, Size 11mm

Suitable for brake pipe connection with a wrench size of 11mm.

Used for loosening and tightening screwed brake pipe connections.

Other Sizes:

137 7-10 - Grip wrench, Size 10mm

137 7-12 - Grip wrench, Size 12mm

137 7-13 - Grip wrench, Size 13mm

Technical Data:

| | |
|---------------|-------|
| Size (waf): | 11mm |
| Total length: | 190mm |
| Weight: | 320g |



KL-0140-29 (Code 2858614)

Vernier Caliper for Brake Discs

Universally suitable.

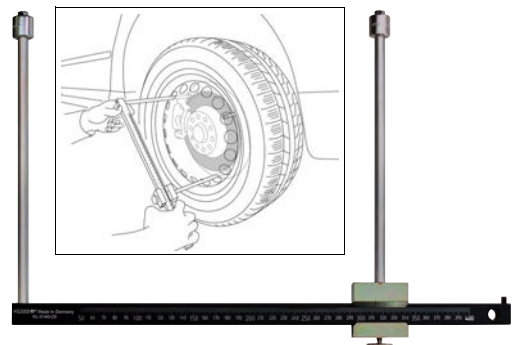
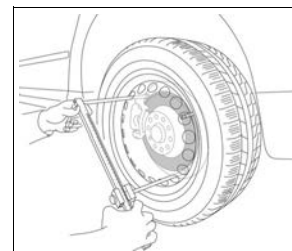
Designed to measure the diameter of brake discs without the need for removing the wheels from the vehicle.

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 |
|-------------------------|----------|





13 pcs.



KL-0040-860

(Code 2372290)

Wheel Bearing Tool Set, Ford Transit

Applicable to all Ford Transit/Tourneo (Models 2000-2006 / 2006-2014 / from 2014-...) with brake disc fixing bolts, pitch circle diameter 97.5mm and 111mm; also suitable for use on the front axle of Tourneo vehicles with front-wheel drive and rear-wheel drive respectively.

The wheel bearing tool set enables wheel bearings on the front axle to be removed and installed quickly and without any trouble.

To replace a brake disc or a wheel bearing, it is usually necessary to pull the wheel bearing along with the hub and brake disc from the steering knuckle. Thanks to this tool, the removal and installation of the wheel bearing can be carried out in situ on the vehicle within just a few minutes, without having to dismantle the suspension strut.

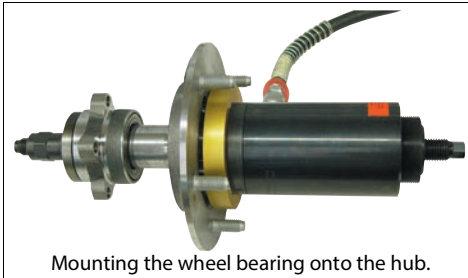
Necessary Drive Parts (cf. Chapter Drives):

KL-0040-2800 Hydraulic Cylinder (28t), **KL-0215-35 M28** Hydraulic Pump,

KL-0040-2812-1 Pull/Pressure Spindle (M24x590), **KL-0040-2812-2** Clamping Nut

Scope of Delivery:

KL-0040-860 Wheel Bearing Tool Set, Ford Transit



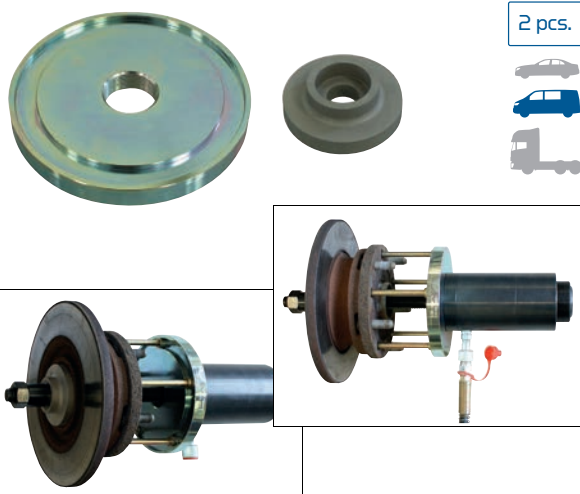
Mounting the wheel bearing onto the hub.

Recommended Accessory:

KL-0040-861 Upgrade Kit, Ford Transit Rear Axle

KL-0040-862 Supplementary Set Ford Transit; Closed Wheel Bearings

| 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 |



2 pcs.



KL-0040-861

(Code 2700972)

Upgrade Kit, Ford Transit Rear Axle

Fits with the front axle on Ford Transit/Tourneo (2000-2006 / 2006-2014 / 2014 onwards) with front-wheel drive and a pitch circle diameter of 160mm of the brake disc fixing screws.

The supplementary kit enables the wheel hub bearing unit on the brake disc of the rear axle to be forced off quickly and professionally. For example, this is required when replacing the wheel bearing and brake discs, as these are located behind the wheel hub.

Required Tool Kit + Drive Parts:

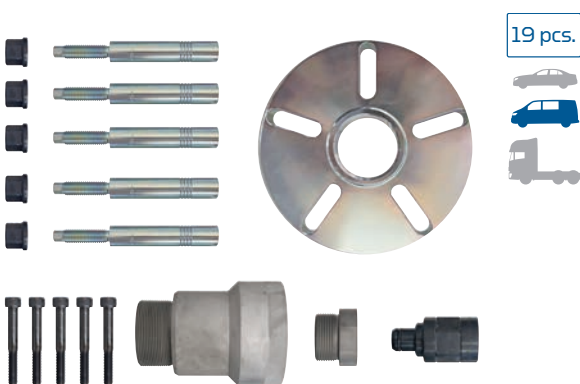
KL-0040-860 Wheel Bearing Tool Set, Ford Transit, **KL-0040-2800** Hydr. Cyl. (28t),

KL-0215-35 M28 Hydraulic Pump, **KL-0040-2812-1** Pull/Pressure Spindle (M24x590),

KL-0040-2812-2 Clamping Nut

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 A | Pressure Ring, Ø 210mm | 1 |



19 pcs.



KL-0040-862

(Code 3292770)

Upgrade Kit Ford Transit; Closed Wheel Bearings

Fits with the front axle on Ford Transit/Tourneo (2006-2014 / 2014 onwards) with rear-wheel drive and a pitch circle diameter of 97.5mm and 111mm of the brake disc fixing screws. Particularly suitable for vehicles with wheel bearing units without centre bore in closed design on the front axle.

This supplementary kit enables the removal of the bolted wheel bearing unit with wheel hub and brake disc on the front axle, especially for wheel bearings without centre bore in closed design, and subsequently the removal and pressing in of the wheel hub on the wheel bearing unit. Required, for example, when replacing the wheel bearing and brake discs, as these are located behind the wheel hub.

Scope of Delivery: KL-0040-862 - Upgrade Kit Ford Transit; Closed Wheel Bearings

| Part No. | Description | Qty |
|----------------|------------------------------|-----|
| KL-0174-330 | Hole disc size 3 (5-hole) | 1 |
| KL-0040-2812-5 | Thrust nut M24 | 1 |
| KL-0040-8621 | Thrust adapter | 1 |
| KL-0174-572 | Adapter 2 1/4" to 2 3/4" | 1 |
| KL-0174-764 A | Draw bolt type M, M14x1.5 mm | 5 |
| KL-0174-701 | SK collar nut M14 | 5 |
| KL-0186-9000-3 | Cap screw M10 x 75 mm | 5 |

Required Set of Tools + Drive Parts:

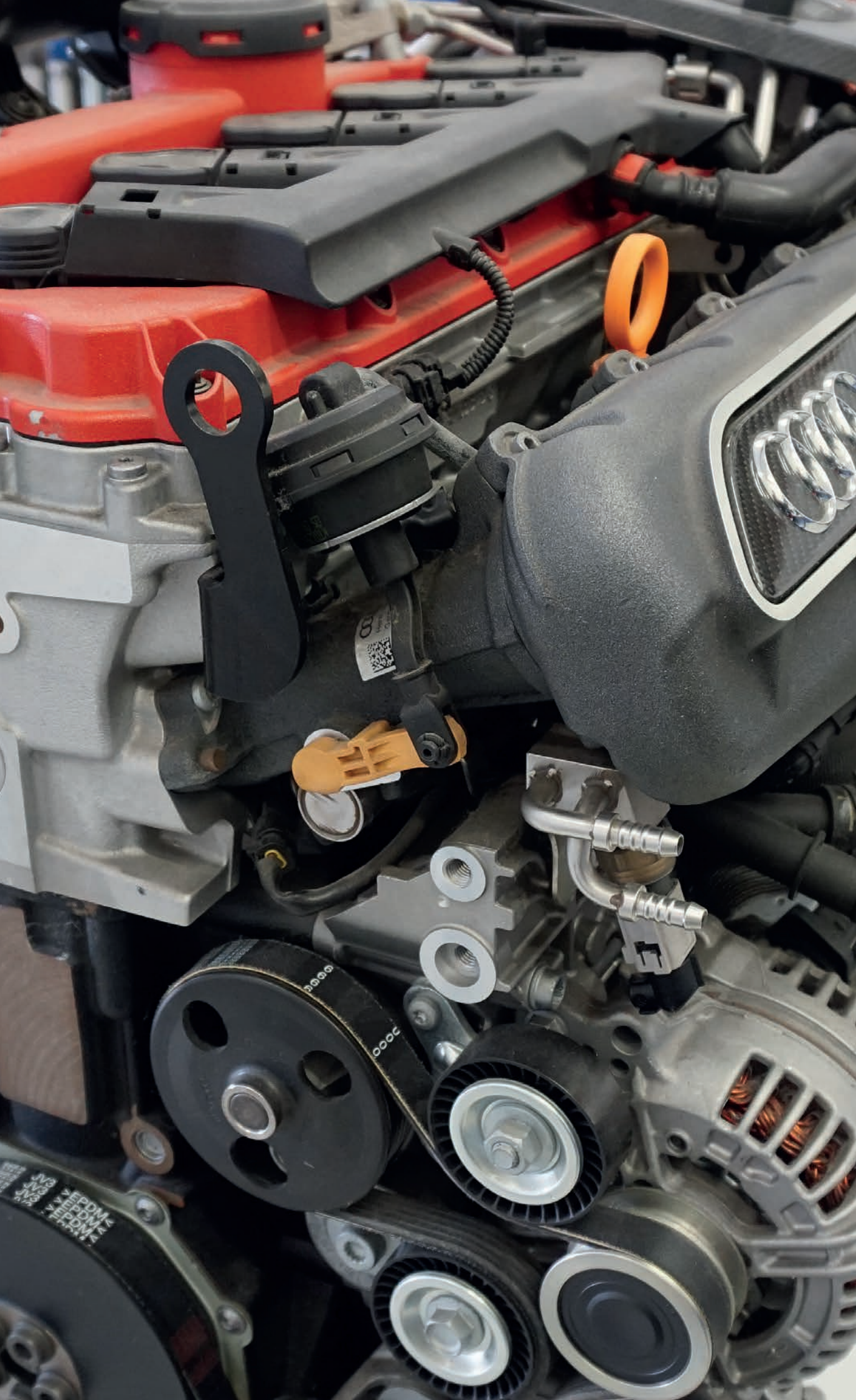
KL-0040-860 Wheel Hub Tool Set; Ford Transit,

KL-0040-2800 Hydraulic Cylinder 28t,

KL-0215-35 M28 Hydraulic Pump,

KL-0040-2812-1 Draw/Thrust Spindle M24x590,

KL-0040-2812-2 Tensioning Nut



4. Engine Maintenance/Repairs





702 20 M (Code 6547870) Feeler Gauge Set (20 Blades)

Universal use. Applicable to passenger cars, HGVs/commercial vehicles.

Alternative tool: W 117 589 00 23 00, 80.99607-0076, 80.99607-6019

The feeler gauge is designed to quickly and precisely measure/determine the size of small gaps/clearances on guide rails, bearings and pistons. An indispensable tool when adjusting the bearing clearance in transmissions, valve clearance in vehicle engines and spark plug gaps etc.

Technical Data:

| | |
|------------------|----------------|
| Thickness range: | 0.05 to 1.00mm |
| Gradations: | 0.05mm |
| Blade length: | 100mm |
| Weight: | 100g |

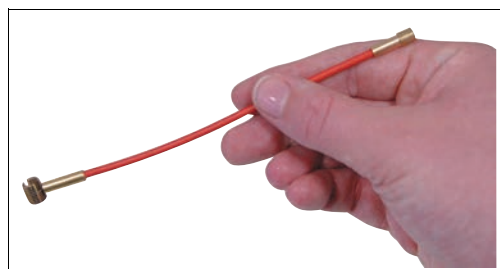


KL-0125-602 (Code 1796186) Valve Collet Assembly Tool, Ø 6mm

Applicable to VW-Audi, Mercedes, Smart, etc.

For installing valve collets.

The **KL-0125-602** Valve Collets Assembly Tool 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.

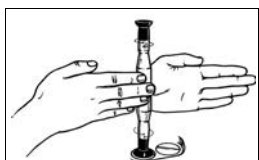
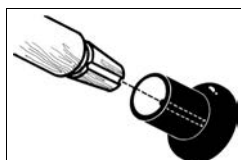


KL-0126-221 (Code 1752952) Magnetic Valve Collet Lifter (flexible)

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 |
| Magnet-Ø 3mm power: | 150g |
| Magnet-Ø 4mm power: | 270g |
| Weight: | 6g |



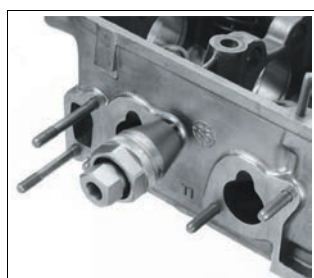
KL-0125-70 (Code 1752901) Valve Lapper Tool, Ø 16/21mm

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: | 16/21mm |
| Length: | 210mm |
| Weight: | 25g |



3/8"

KL-0181-1 (Code 1753851) Stud Tool, 3/8"

Universal tool, infinitely adjustable.

Designed to screw in and unscrew studs with diameter of 6-12mm.

Recommended Accessory: 3093 U-20 Reversible Ratchet, 3/8"

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.

4.1 Cylinder Head / Engine Block

KL-0128-0

(Code 1753053)

Dial Gauge, Ø 40mm

Description: Measuring spindle and clamping shank made of stainless steel, design features and accuracy in accordance with 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 |

2 pcs.



KL-0128-1

(Code 1810952)

Dial Gauge, Ø 58mm

Features: Measuring spindle and clamping shank made of stainless steel, design features and accuracy in accordance with DIN 878-A.

Technical Data:

| | |
|-----------------------|--------|
| Graduation: | 0.01mm |
| Measuring range: | 10mm |
| Housing Ø: | 58mm |
| 1 pointer revolution: | 1mm |
| Clamping shank Ø: | 8mm |



KL-0178-30 K

(Code 2406888)

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 as found on Audi (A2, A3); VW (Polo, Golf IV/V/Plus, Passat); Seat (Arosa, Ibiza, Leon); Škoda (Fabia, Octavia) and Mitsubishi (Grandis, Outlander).

(Engine code: AHW, AKQ, APE, AXP, AZV, BAG, BCA, BLS, BKC, BKD, BKP, BLP, BLF, BMA, BMN, BMR, BNA, BRF, BUD, BXW, CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CAXC, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBD, CBDB, CBDC, CBZA, CCHA, CCHB, CDBA, CDCA, CEGA, CFCA, CFFA, CFFB, CFFE, CFFD, CFGC, CFGD, CFGB, CFGC, CFHA, CFHB, CFHC, CFHF, CFHD, CFJA, CFJB, CGGA, CGGB, CGLA, CGLB, CGLC, CGLD, CJAA, CJCA, CJCB, CJCC, CJCD, CKUB, CKUC, KCTB, CKTC, CLCA, CLCB, CLJA, CLLA, CLLB, CLNA, CMFA, CMFB, CMGA, CMGB, CMSA, CNEA, CNFA, CNFB, CSHA, CSLB, CUSB, DFSF)

Alternative tool: T10134, T10017

Essential tool kit for the quick and professional installation of crankshaft sealing rings with integrated sender wheel (gearbox side).

Recommended Accessory:

KL-0280-19 A Locking Tool for Crankshaft Sprocket, or

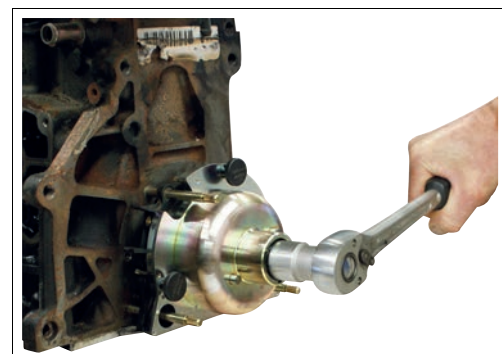
KL-0280-20 A Locking Tool for Crankshaft Sprocket

Scope of Delivery:

KL-0178-30 K 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 |

17 pcs.



4. Engine Maintenance/Repairs

4.1 Cylinder Head / Engine Block

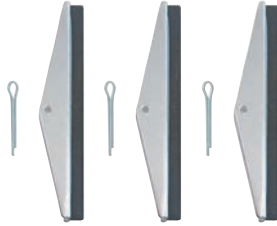


KL-0199-12 [Code 1754270] Cylinder-Honing Tool, Ø 51-175mm

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:

| | |
|-------------|----------|
| Cylinder Ø: | 51-175mm |
| Weight: | 570g |
| Length: | 100mm |



6 pcs.



KL-0199-125 [Code 1794108] Cylinder Hone Set (3 Stones)

Technical Data:

| | |
|------------|----------|
| Dimension: | 11x100mm |
| Weight: | 57g |



2 pcs.



125 ... [Code 6396720] Piston ring compressor

- In special band spring steel, with continuous adjustment
- With clamping wrench

125 0 [Code 6396720] Piston ring compressor

Technical Data:

| | |
|-----------------|---------|
| Clamping range: | 40-75mm |
| Total length: | 50mm |

125 2 [Code 6396990] Piston ring compressor

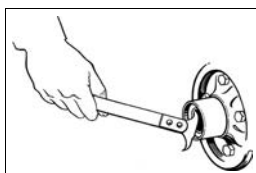
Technical Data:

| | |
|-----------------|----------|
| Clamping range: | 90-175mm |
| Total length: | 80mm |

125 1 [Code 6396800] Piston ring compressor

Technical Data:

| | |
|-----------------|----------|
| Clamping range: | 57-125mm |
| Total length: | 80mm |



KL-0178-10 [Code 1797379] Seal Ring Puller

Alternative tool: KM-J-45000

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 |
|---------|------|



KL-4901-10 [Code 2473844] 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 |

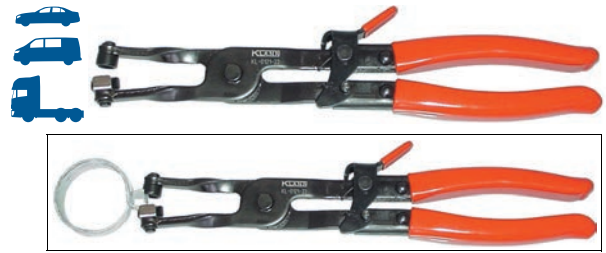
4.2 Cooling System

KL-0121-22 (Code 1752529)
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 (Code 1752537)
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° |

KL-0121-25 (Code 1752545)
Hose Clamp Pliers, with Remote Action
and 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.

Alternative tools: KM-6182-4, T20174, VAS 5024 A

This tool is designed to open self-tensioning hose clips, for example when replacing fuel hoses, oil hoses, radiator and heater hoses. The long flexible cable with remote-action mechanism enables even hose clips in hard-to-access areas to be reached easily and without any trouble. The special design of the pliers ensures that the clip is safely gripped and securely held.

Technical Data:

| | |
|--------------|---------|
| For clamp Ø: | 18-53mm |
| Length: | 225mm |
| Clamp Angle: | 90° |



KL-0121-2501 (Code 1797352)
Bowden Cable (Spare)

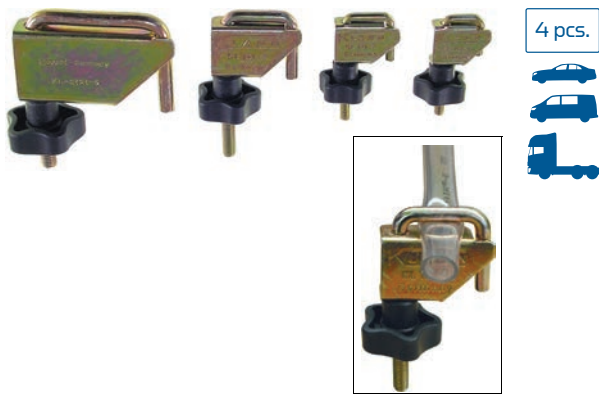


KL-0124-59 (Code 2961830)
Removal Tool for HENN® Clamps

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.





4 pcs.



KL-0121-20

(Code 1752510)

Set of Hose Clamps (4-Piece Set)

Universal application.

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-0121-94

(Code 1752685)

Hose Clamp Pliers

For CLIC clips.

Suitable for Audi, Citroën, Fiat, Mercedes, Opel/Vauxhall, Peugeot, Renault, VW etc.

Alternative tool: VAS 6653

Used to open and close the reusable hose clamp types CLIC and CLIC-R (Caillau/Serflex).

Technical Data:

| | |
|---------|------|
| Weight: | 270g |
|---------|------|



KL-0121-38 B

(Code 3257223)

Fuel Line Pliers

Universally suitable for quick-release couplings as found on fuel lines in vehicles from VW-Audi, SEAT, ŠKODA, Mercedes, BMW, Renault, Peugeot, Opel/Vauxhall, Chrysler, Fiat etc.

Alternative tools: W 163 589 00 37 00

Allows you to unlatch quick-release couplings on fuel lines professionally. An indispensable tool when changing the fuel filter or performing repairs to the fuel system for example. Today's fuel lines generally feature quick-release couplings having very small release lugs. The use of conventional pliers is not appropriate, since the size of the clamping jaws is simply too large to fit these lugs.

The adjustable fuel line pliers from GEDORE Automotive is the perfect solution here - the ingenious design of the pliers' gripping jaws, which can be swivelled by up to 90 degrees, allows even hard-to-reach couplings to be released without any damage.

Technical Data:

| | |
|---------------|-------|
| Swivel range: | 90° |
| Length: | 172mm |



KL-0289-20

(Code 3010465)

Removal/Installation Tool for Fuel Return Line

Suitable for VW-Audi, Seat and Škoda 2.0, 2.7 and 3.0 TDI Common Rail Diesel engines; as fitted to: VW Eos, Golf V, Golf VI, Jetta, Passat, Passat CC, Scirocco, Tiguan, Transporter T5, Phaeton; Audi A3, A4, A5, A6, A7, Q5; Seat Exeo; Škoda Yeti etc.

(Engine codes: BMK, BPP, CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CBAA, CBAB, CBAC, CBDA, CBDB, CBDC, CDUD)

Designed to professionally unlock/remove as well as install/lock the fuel return line push-fit connector (round design) at the injectors.

An indispensable tool when removing fuel return line push-fit connectors. Improper disassembly techniques may damage the connector resulting in the complete fuel return line in the engine compartment to be replaced.

4.3 Fuel System

KL-4075-321 K (Code 2479990) Flexible Crowfoot Socket Wrench Set

Universally suitable for screwed pipe connections, for example, on brake systems, injection systems etc.

Alternative tool: 80.99603-0028

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.

Recommended Accessory: 3093 U-20 Reversible Ratchet, 3/8"

Technical Data:

| | |
|-------------|------------------|
| Profile: | Double Hex |
| Drive: | 3/8" |
| Size (waf): | 14/16/17/18/19mm |

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 | 1 |
| KL-4075-3216 | Flexible Crowfoot Socket Wrench, Size (waf) 16mm | 1 |
| KL-4075-3217 | Flexible Crowfoot Socket Wrench, Size (waf) 17mm | 1 |
| KL-4075-3218 | Flexible Crowfoot Socket Wrench, Size (waf) 18mm | 1 |
| KL-4075-3219 | Flexible Crowfoot Socket Wrench, Size (waf) 19mm | 1 |
| KL-4074-3190 | Plastic Storage Case | 1 |



KL-0511-40 K (Code 3245713) Set of Special Sockets, in a Storage Case

Universally suitable for the union nuts on high-pressure fuel lines and exhaust gas temperature sensors found in passenger cars and commercial vehicles/HGVs.

Alternative tools: VW T40055; BMW 13 5 020, 37 1 151, 37 1 152; Kia & Hyundai 09314-27110, 09314-27120; Mercedes W 000 589 68 03 00, W 314 589 01 03 00

The sockets are specifically cut out and designed to allow for the quick and trouble-free loosening and tightening of the union nuts that are found on high-pressure fuel lines and exhaust gas temperature sensors. Set includes waf sizes: 14mm, 17mm, 19mm, 21mm. The special design of the tool - input and output drives are located on the same axis - allow union nuts to be tightened in a controlled manner and to the correct tightening torque.

Conventional sockets with an offset shape - where input and output drives are not located on the same axis - distort the tightening torque.

Recommended Accessory:

3093 U-20 Reversible Ratchet, 3/8", 4549-05 Torque wrench, 10 - 50 Nm

Technical Data:

| | |
|------------|------------------------|
| Waf sizes: | 14mm, 17mm, 19mm, 21mm |
| Profile: | hex |
| Design: | cut out |
| Drive: | 3/8" |
| Length: | 78mm |

Scope of Delivery: KL-0511-40 K Set of Special Sockets, in a Storage Case

| Part No. | Description | Qty |
|--------------|---------------------------------|-----|
| KL-0511-8 | Special Socket, Size (waf) 14mm | 1 |
| KL-0511-4 | Special Socket, Size (waf) 17mm | 1 |
| KL-0511-6 | Special Socket, Size (waf) 19mm | 1 |
| KL-0511-7 | Special Socket, Size (waf) 21mm | 1 |
| KL-0511-4090 | Plastic Storage Case | 1 |



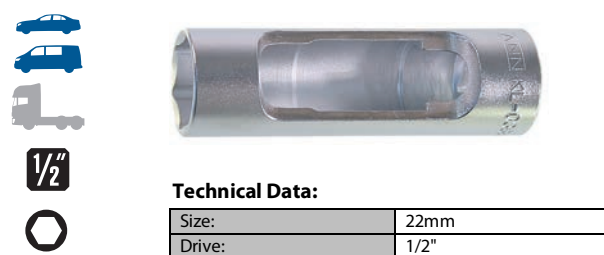
KL-0369-10 (Code 1755390) Hex Socket, Size (waf) 22mm

Suitable for diesel engines from: VW-Audi, BMW, Ford, Opel/Vauxhall, Rover, Mercedes, Seat, Volvo, etc.

Alternative tool: 3078, U-20012

The special cut-out hex socket allows for the removal/installation of diesel injectors without damaging the fuel return tubes.

Recommended Accessory: 1993 U-20 Reversible Ratchet



Technical Data:

| | |
|--------|------|
| Size: | 22mm |
| Drive: | 1/2" |



36 pcs.



KL-0124-41 K

(Code 2212684)

Pressure- and Vacuum Hand Pump, in a Storage Case

Universal application.

Alternative tool: W 001 589 73 21 00, W 201 589 13 21 00, 3093, U-30042

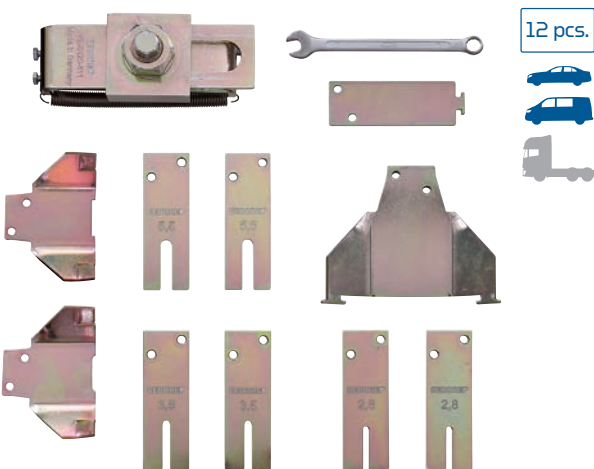
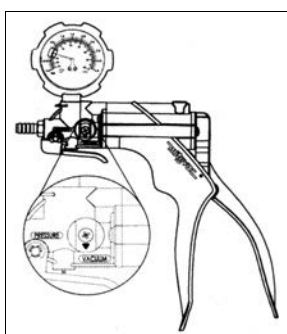
Allows for the quick and easy checking of pressure- and vacuum systems as well as for the extraction of liquids such as fuels, brake fluids etc., (e.g. when bleeding the brake).

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 |



12 pcs.



KL-0120-81 K

(Code 3125580)

Fuel Tank Sender Spanner Kit

Universally suitable for use on fuel tank sender lock rings as found on: VW-Audi, Seat, Skoda, BMW, Mercedes-Benz, Porsche, Opel/Vauxhall, Mini, PSA, Citroën, Peugeot, Renault, Alfa Romeo, Fiat, Volvo and Honda etc.

Alternative tool: T10202, 16 1 020, EN-48279, 999 5720, 310-118, I-1618, J-1618-A

An indispensable tool kit for the professional loosening and tightening of fuel sender lock rings on fuel tanks.

Thanks to the adjustable design of the base tool and the universal and vehicle-specific adaptor sets supplied with the kit, the spanner can be assembled to work on virtually all commonly used fuel sender lock rings - safely and without any risk of damage.

Note:

The adaptors can also be attached to the base tool from the inside - ideal when space is at a premium.

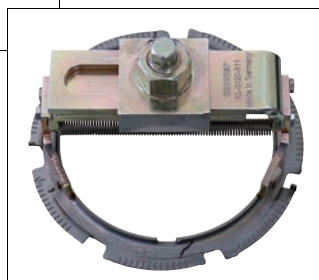
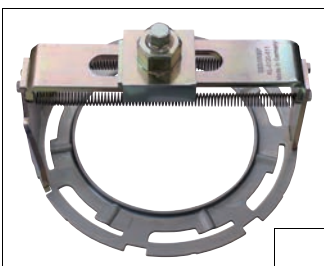
Technical Data:

| | |
|-------------------|-----------|
| Adjustment range: | 110-180mm |
|-------------------|-----------|

Scope of Delivery:

KL-0120-81 K Fuel Tank Sensor Spanner Kit

| Part No. | Description | Qty |
|---------------|-------------------------------------|-----|
| KL-0120-811 | Fuel Tank Sender Spanner Base Tool | 1 |
| KL-0120-812 | Adaptor Set (2.8mm) | 1 |
| KL-0120-813 | Adaptor Set (3.5mm) | 1 |
| KL-0120-814 | Adaptor Set (5.5mm) | 1 |
| KL-0120-815 | Adaptor Set (BMW/Mercedes/Honda) | 1 |
| KL-0120-816 | Adaptor Set (VW-Audi) | 1 |
| 7 7 (6089630) | Combination Spanner, Size (waf) 7mm | 1 |
| KL-0120-8190 | Plastic Storage Case | 1 |



4.3 Fuel System

KL-0122-701 (Code 1902164)

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.

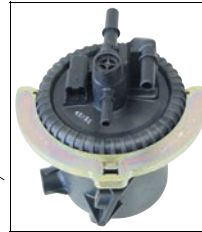
This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

Recommended Accessory:

3093 U-20 Reversible Ratchet, 3/8"

Technical Data:

| | |
|-----------------|---------|
| Profile: | Ø 109mm |
| Drive (square): | 3/8" |



KL-0122-702 (Code 2800713)

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.

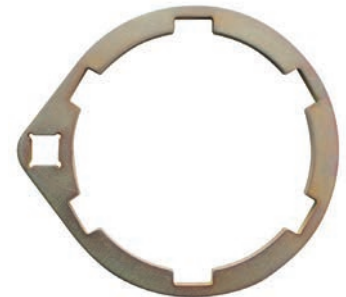
This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

Recommended Accessory:

3093 U-20 Reversible Ratchet, 3/8"

Technical Data:

| | |
|-------------|--------|
| Drive: | 3/8" |
| Internal Ø: | 82mm |
| Ribs: | 6 ribs |



KL-0122-703 (Code 3087573)

Fuel Filter Socket, Ø 115mm, Ford Transit

Applicable to fuel filter housings (Ford No. 1 781 617), as fitted to Ford Transit Custom (from 2012 onwards), Tourneo Custom (from 2012 onwards), Transit (2006-2014) and Transit (from 2014 onwards).

Required when changing the fuel filter cartridge.

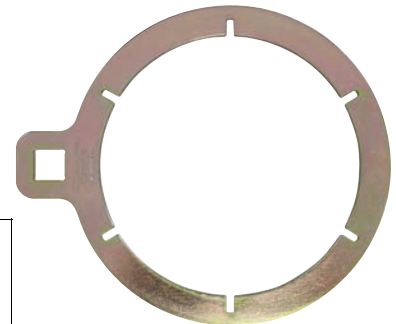
The compact design of the socket allows the fuel filter cap to be loosened and tightened with ease, even on vehicles where space is at a premium.

Recommended Accessory:

1993 U-20 Reversible Ratchet 1/2"

Technical Data:

| | |
|-----------------|-----------|
| Drive: | 1/2" |
| Inner diameter: | 115mm |
| Grooves: | 6 Grooves |



KL-0289-10 (Code 2922819)

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.

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 fixing bolts, 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.



4. Engine Maintenance/Repairs

4.3 Fuel System; 4.4 Injection System



2 pcs.



Recommended Accessory: 2093 U-20 Reversible Ratchet 1/4"

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" |

KL-0286-20

(Code 2930331)

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).

Alternative tool: T10422, T10423

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.

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 |



304.. Serie

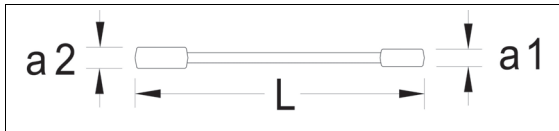
Half moon ring spanner

Universal application.

Required for the correct loosening and tightening of the turbocharger fixing bolts. With extra thin-walled rings, particularly necessary in very tight spaces.

Available Sizes:

| Part No. | L (mm) | a1 (mm) | a2 (mm) | Size1/Size2 | Code-No. |
|-----------|--------|---------|---------|-------------|----------|
| 304 11x13 | 150 | 7.0 | 7.5 | 11/13 | 6470040 |
| 304 13x15 | 185 | 8.5 | 8.5 | 13/15 | 6470630 |
| 304 13x17 | 185 | 8.5 | 8.5 | 13/17 | 6470120 |
| 304 14x16 | 185 | 8.5 | 8.5 | 14/16 | 6470200 |
| 304 14x17 | 185 | 8.5 | 8.5 | 14/17 | 6470390 |
| 304 15x17 | 185 | 8.5 | 8.5 | 15/17 | 6470470 |
| 304 16x18 | 185 | 8.5 | 8.5 | 16/18 | 6567550 |
| 304 19x22 | 230 | 10.0 | 10.5 | 19/22 | 6470550 |



14 pcs.



KL-0186-91 EA

(Code 3283992)

Injector Nozzle Puller Set, in a Foam Insert

Universally suitable for Denso injector nozzles with high-pressure fuel line connector having an M12x1.5 / 30° external thread. Also suitable for Bosch and Siemens/VDO injector nozzles with detachable high-pressure fuel line connector having an M12x1 / 45° internal thread.

For example, fitted to: BMW, Mercedes, Chrysler, Chevrolet, Citroen, Fiat, Hyundai, Iveco, Lancia, Opel/Vauxhall, PSA, Peugeot, Renault, Saab, Suzuki, Toyota.

Alternative tool: T10415

For the quick and easy extraction of tight-fitting or seized injector nozzles.

An indispensable tool set when removing the valve cover or replacing injector nozzles. Thanks to the special bolts that come with the set, the puller can be fixed via the high-pressure fuel line connector. This eliminates the need for opening the injector nozzle. The special design of the tool also ensures optimum and damage-free power transmission.

Necessary Drive Parts (cf. Chapter Drives):

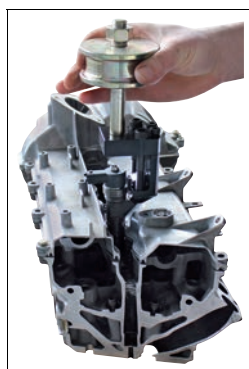
KL-0369-4100 (1.5kg) or **KL-0049-300** (4.8kg) Slide Hammer Puller

Tool Storage System: KL-4990-9324- Plastic Storage Case

Scope of Delivery:

KL-0186-91 EA Injector Nozzle Puller Set, in a Foam Insert

| Part No. | Description | Qty |
|------------------|-----------------------------------|-----|
| KL-0186-9000 A | Head plate with Cheese-Head Screw | 1 |
| KL-0186-9001 A | Injector Extractor M12x1 / 45° | 1 |
| KL-0186-9201 A | Injector Extractor M12x1,5 / 30° | 1 |
| KL-0186-950 | Tension Joint M18 | 1 |
| KL-0186-9090-2 A | Foam Insert | 1 |



Recommended Accessory:

KL-0186-9101 A Upgrade Kit, M14 / 45°

KL-0186-9301 Upgrade Kit, Denso, M14x1.5 / 30°

KL-0186-9401 Upgrade Kit, M12x1, 20°

4.4 Injection System

KL-0186-9101 A (Code 3283836) Upgrade Kit, M14 / 45°

Universally applicable to Bosch injector nozzles equipped with a detachable high-pressure fuel line connector having an M14x1.5 and M14x1 internal thread (45° angled). For example, fitted to: VW-Audi, Seat, Skoda, Citroën, Fiat, Iveco, PSA, Peugeot. Particularly suitable with Fiat Ducato, IVECO Daily 2.8 JTD; VW Golf 6, Tiguan, Touran 2.0 TDI (engine code CFFB); Industrial diesel engines HATZ 4H50TIC.

For the quick and easy extraction of tight-fitting or seized injector nozzles. Indispensable tools when removing the valve cover and replacing injector nozzles.

Scope of Delivery: KL-0186-9101 A Upgrade Kit, M14 / 45°

| Part No. | Description | Qty |
|----------------|------------------------------|-----|
| KL-0186-9101-1 | Adaptor Plate, M14x1.5 / 45° | 1 |
| KL-0186-9101-2 | Special Bolt, M14x1.5 | 1 |
| KL-0186-9101-3 | Special Bolt, M14x1 | 1 |

3 pcs.



Recommended Accessory:

KL-0186-9101 A Upgrade Kit, M14 / 45°
KL-0186-9301 Upgrade Kit, Denso, M14x1.5 / 30°
KL-0186-9401 Upgrade Kit, M12x1, 20°

KL-0186-9301 (Code 3133273) Upgrade Kit, Denso, M14x1.5 / 30°

Universally applicable to Denso injector nozzles equipped with a high-pressure fuel line connector having an M14x1.5 external thread (30° angled). For example, fitted to: Opel/Vauxhall.

For the quick and easy extraction of tight-fitting or seized injector nozzles. Indispensable tools when removing the valve cover and replacing injector nozzles.

Scope of Delivery: KL-0186-9301 Upgrade Kit, Denso M14x1.5 / 30°

| Part No. | Description | Qty |
|----------------|------------------------------------|-----|
| KL-0186-9301-1 | Adaptor Plate, Denso M14x1.5 / 30° | 1 |
| KL-0186-9301-2 | Threaded Sleeve, M14x1.5 | 1 |

2 pcs.



Necessary Accessories:

KL-0186-91 EA Injector Nozzle Puller Set
KL-0369-4100 (1.5kg) or **KL-0049-300** (4.8kg) Slide Hammer Puller

KL-0186-9401 (Code 3133311) Upgrade Kit, M12x1 / 20°

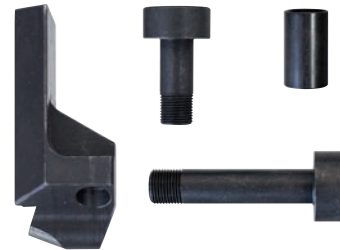
Universally applicable to Bosch and Siemens/VDO injector nozzles equipped with a detachable high-pressure fuel line connector having an M12x1 internal thread (20° angled). For example, fitted to: Citroën, Ford, Jaguar, PSA, Peugeot.

For the quick and easy extraction of tight-fitting or seized injector nozzles. Indispensable tools when removing the valve cover and replacing injector nozzles.

Scope of Delivery: KL-0186-9401 Upgrade Kit, M12x1 / 20°

| Part No. | Description | Qty |
|----------------|----------------------------|-----|
| KL-0186-9001-2 | Special Bolt, M12x1 | 1 |
| KL-0186-9001-3 | Special Bolt, M12x1, long | 1 |
| KL-0186-9001-4 | Sleeve | 1 |
| KL-0186-9401-1 | Adaptor Plate, M12x1 / 20° | 1 |

4 pcs.



Necessary Accessories:

KL-0186-91 EA Injector Nozzle Puller Set
KL-0369-4100 (1.5kg) or **KL-0049-300** (4.8kg) Slide Hammer Puller

KL-0186-95 K (Code 3296873) Injector Extractor Set (VM-Motori/HATZ-Diesel/Iveco)

Universally fits agricultural machines, construction machines, and municipal vehicles with engines from VM-Motori as well as HATZ-Diesel and Iveco. For example, the motor series: VM-Motori R754 (Euro 5 + Euro 6), R756 (Euro 6); HATZ-Diesel H-Serie 3H50 TIC, 4H50 TIC; Iveco F1CE3 (Euro 5), 8140.43 (Euro 3).

For example, installed at Aebi, Boki, Boschung, Bulmor, Bucher, Hako, Hansa, Kärcher, Ladog, Lindner, Meili, MFH, Reform, Schell, Schmidt, Trilety.

For quick and professional extraction of stuck injectors from the cylinder head, in conjunction with an impact extractor (mounting thread: M18x2.5). It is required when removing the valve cover, for example, and when renewing the injectors.

The special design of the injector extractor allows the injector to be pulled out without having to open it, directly above the fuel connection. Injectors that have been opened must be sent in for repair according to the manufacturer's instructions.

Scope of Delivery: KL-0186-95 K Injector Extractor Set

| Part No. | Description | Qty |
|----------------|----------------------------------|-----|
| KL-0186-951 | Injector extractor HATZ H-series | 1 |
| KL-0186-952 | Injector extractor VM-Motori | 1 |
| KL-0186-9000-1 | Nozzle extractor Head plate | 1 |
| KL-0186-9000-2 | Cheese-head screw M8x35mm | 2 |
| KL-0186-9090 | Plastic suitcase | 1 |

12 pcs.



Required Drive Parts

(see Chapter Drives)
KL-0369-4100 Impact Extractor 1.5kg,
KL-0049-300 Impact Extractor 4.8kg





43 pcs.



KL-0186-14 EA (Code 3293793) (German Utility Model) Universal Injector Nozzle Puller Set, in a Foam Insert

Universally suitable for diesel engines, especially for BOSCH injectors with M14x1.5 external thread as well as M17x1 internal thread, and also for DELPHI injectors with M14x1.5 external thread.

Particularly suitable for Mercedes, for example: OM611, OM612, OM613, OM628**, OM629**, OM639, OM640, OM642**, OM646, OM646 EVO, OM647, OM648 (**V-engines: engine removal may be necessary for space reasons); Peugeot, Citroën, Fiat, Lancia, Suzuki: DV6 16V (not on Euro 5 [8V] engines); Ford: 1.6 TDCi (G8DA, G8DB, HHDA, HHJA, HHJB); VW-Audi: 2.0, 2.5, 2.7, 3.0 Common Rail TDI; Volvo: 1.6 D (D4164T), 2.2 D; Mazda: Y6 DV6 16V (not on Euro 5 [8V] engines)

The injector extractor kit enables fast and professional removal of severely stuck injectors directly on the vehicle without removing the cylinder head.

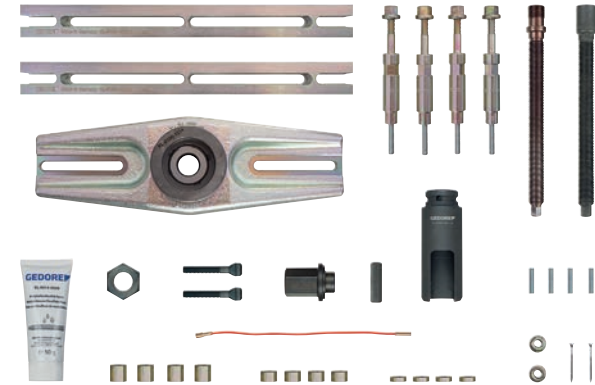
For this purpose, screw the 4 support pins with M6x1 mounting thread into the valve cover mounting holes on the cylinder head and place the special pull-off bridge over them afterwards. The spacer nuts included in the scope of delivery enable height compensation of the support pins. By using the appropriate draw spindle, the stuck injector can now be taken out.

Note: The injector extractor can also be used for many other common rail diesel engines by using the optionally available support pins, draw spindles and supplementary kits. For example: 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); Toyota 2.2 (2AD-FHV, 2AD-FTV).

Recommended Drive Parts (cf. Chapter Drives):

KL-0040-175 B Hydraulic Drive Tool Kit with Safety Belt

KL-0215-35 M25 Hydraulic Hand Pump



Storage System:

KL-4990-9474 Plastic Storage Case

KL-0186-14 KA Injector Nozzle Puller Set

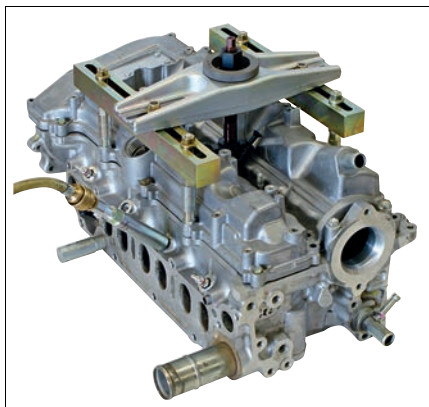
Like **KL-0186-14 EA**, but in a Plastic Suitcase

Recommended Accessory: **KL-0121-75** Set of Vacuum Line Plugs

Scope of Delivery:

KL-0186-14 EA Universal Injector Nozzle Puller Set, in a Foam Insert

| Part No. | Description | Qty |
|-----------------|-------------------------------------|-----|
| KL-0186-121 A | Extraction Bridge (Base Tool) | 1 |
| KL-0186-1231-11 | Support Bolt 110 mm | 4 |
| KL-0186-1235-3 | Set Screw, M6x45mm | 4 |
| KL-0186-1235-2 | Set Screw, M6x25mm | 4 |
| KL-0583-1005 A | Pull Spindle, M17x1, with Union Nut | 1 |
| KL-0186-1215 | Nut, M16x1.5 | 1 |
| KL-0583-1032 | Pull Spindler, M14x1.5 | 1 |
| KL-0369-4505 A | Special Bit Insert, Size (waf) 10mm | 1 |
| KL-0369-461 A | Special Socket, Size (waf) 29mm | 1 |
| KL-0186-1251 | Set of Spacer Nuts, 5mm | 1 |
| KL-0186-1252 | Set of Spacer Nuts, 10mm | 1 |
| KL-0186-1253 | Set of Spacer Nuts, 15mm | 1 |
| KL-0126-221 | Flexible Magnetic Lifter | 1 |
| KL-4990-2001 | Plastic Box | 2 |
| KL-0186-1492 A | Foam Insert | 1 |



48 pcs.



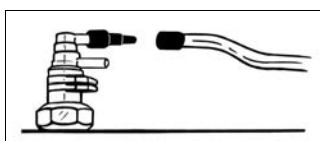
KL-0121-75 (Code 1892614) Set of Vacuum Line Plugs

Universally suitable for pressure, vacuum and fuel lines.

Alternative tools: 0188-T, 0189-Q, 0194-T, 1617-J

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").

The set is often used in conjunction with the **KL-0186-14 EA** injector nozzle puller set.



4.4 Injection System

KL-0186-1233 [Code 2411199] 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; as found 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.

For example, installed 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 Antara; Chevrolet Cruze (J300), Captiva, Orlando (J309), Nubria, Lacetti; Mercedes C-Class (W204 / S204 from 2007), E-Class (W212 from 2009), E-Class Coupé / Convertible (W207 / C207 from 2009), GLK (X204 from 2008) and Sprinter II (906 from 2006); Ford Transit (from 2006), Tourneo; Fiat Ducato (from 2006 to 2012); Citroën Relay/Jumper III; Peugeot Boxer III.

By using the support bolt kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned engines.

Scope of Delivery: KL-0186-1233 Set of Support Bolts, M6, 145mm

| Part No. | Description | Qty |
|-----------------|---------------------|-----|
| KL-0186-1233-11 | Support Bolt, 145mm | 4 |
| KL-0186-1235-2 | Set Screw, M6x25mm | 4 |

8 pcs.



Necessary Accessories:

KL-0186-14 EA Injector Extractor Kit; depending on the injector, the Supplementary Kit **KL-0186-128..** may be required.

KL-0186-1240 [Code 2970430] 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.

By using the support bolt kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned engines.

Necessary Accessories:

KL-0186-14 EA Injector Extractor Kit; depending on the injector, the Supplementary Kit **KL-0186-128..** may be required.

Scope of Delivery: KL-0186-1240 Set of Support Bolts, M6, 170mm

| Part No. | Description | Qty |
|-----------------|---------------------|-----|
| KL-0186-1240-10 | Support Bolt, 170mm | 4 |
| KL-0186-1235-2 | Set Screw, M6x25mm | 4 |

8 pcs.



KL-0186-1236 [Code 2536560] Set of Support Bolts, M6, 129mm

Fits Renault, Nissan, and Opel 2.0 dci diesel engines. (Engine code: M9R)

By using the support bolt kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned engines.

Necessary Accessories:

KL-0186-14 EA Injector Extractor Kit; depending on the injector, the Supplementary Kit **KL-0186-128..** may be required.

Scope of delivery:

KL-0186-1236 Set of Support Bolts, M6, 129mm

| Part No. | Description | Qty |
|-----------------|---------------------|-----|
| KL-0186-1236-20 | Support Bolt, 129mm | 4 |
| KL-0186-1235-4 | Set Screw, M6x65mm | 4 |
| KL-0186-1251-1 | Spacer Nut, 5mm | 4 |

12 pcs.





8 pcs.



KL-0186-1238

(Code 2798336)

Set of Support Bolts, M6, 129mm

Suitable for diesel engines on Opel 1.7 + 3.0 CDTi (A17DT, A17DTC, A17DTJ, A17DTR, Z30DT, Y30DT) and Renault 3.0 dCi (P9X* - V-engines: engine removal may be necessary for space reasons)

For example, installed on Opel Astra H, Astra J, Meriva B, Zafira B, Vectra C, Signum; Renault: Espace (IV), Vel Satis.

By using the support bolt kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned engines.

Necessary Accessories:

KL-0186-14 EA Injector Extractor Kit; depending on the injector, the Supplementary Kit **KL-0186-128..** may be required.

Scope of Delivery:

KL-0186-1238 Set of Support Bolts, M6, 129mm

| Part No. | Description | Qty |
|-----------------|---------------------|-----|
| KL-0186-1236-20 | Support Bolt, 129mm | 4 |
| KL-0186-1235-2 | Set Screw, M6x25mm | 4 |



8 pcs.



KL-0186-1234

(Code 2411229)

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 codes: G9T and G9U) as found in Renault: Avantage, Espace III, Espace IV, Laguna II, Master II, Master III, Traffic II, Vel Satis; Nissan: Interstar, Primastar and Vauxhall/Opel Movano, Vivaro.

By using the support bolt kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned engines.

Necessary Accessories:

KL-0186-14 EA Injector Extractor Kit; depending on the injector, the Supplementary Kit **KL-0186-128..** may be required.

Scope of Delivery:

KL-0186-1234 Set of Support Bolts M6 (113.5mm and 153.5mm)

| Part No. | Description | Qty |
|-----------------|-----------------------|-----|
| KL-0186-1234-10 | Support Bolt, 113.5mm | 2 |
| KL-0186-1234-20 | Support Bolt, 153.5mm | 2 |
| KL-0186-1235-2 | Set Screw, M6x25mm | 4 |



8 pcs.



KL-0186-1239

(Code 2838044)

Set of Support Bolts, M7, 132.5mm

Suitable for Opel/Vauxhall and Fiat 1.3 Common Rail Diesel engines. for example, fitted to Opel/Vauxhall Agila, Corsa C, Corsa D, Meriva A, Meriva B, Tigra B; Fiat Punto (188), Idea (135), Doblo (223), Doblo (263). (Engine codes: Z13DT, Z13DTH, Z13DTC, Z13DTJ, 188A9.000)

By using the support bolt kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned engines.

Necessary Accessories:

KL-0186-14 EA Injector Extractor Kit; depending on the injector, the Supplementary Kit **KL-0186-128..** may be required.

Scope of Delivery:

KL-0186-1239 Set of Support Bolts, M7, 132.5mm

| Part No. | Description | Qty |
|-----------------|-----------------------|-----|
| KL-0186-1239-10 | Support Bolt, 132.5mm | 4 |
| KL-0186-1235-6 | Set Screw, M7x55mm | 4 |

4.4 Injection System

KL-0186-130 A [Code 3293882] Support Bolt Kit for KL-0186-14 EA

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 [F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N] also Euro 5), as well as Alfa Romeo 1.9 JTD (Engine code: 937A5.000).

By using the support bolt kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned engines.

Note: For 3.0 JTD/HDI (Euro 5) engines with extremely tight-fitting injectors, use the supplementary kit - KL-0186-132.

Necessary Accessories:

KL-0186-14 EA Injector Extractor Kit; depending on the injector, the Supplementary Kit **KL-0186-128..** may be required.

Scope of Delivery: KL-0186-130 A Support Bolt Kit for KL-0186-14 EA

| Part No. | Description | Qty |
|----------------|---------------------|-----|
| KL-0186-1232-1 | Support Bolt, 120mm | 4 |
| KL-0186-1261-1 | Spacer Nut, 10mm | 4 |

8 pcs.



KL-0186-132 [Code 2938014] Support Bolt / Supplementary Kit for KL-0186-14 EA

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)

By using the support bolt / supplementary kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned engines, particularly for tight-fitting injectors.

By using the special draw hook in addition to the pulling spindle, force is not only applied to the injector via the draw spindle but also via the draw hook when removing. In this way, the injector is unlikely to break and can be removed in one piece.

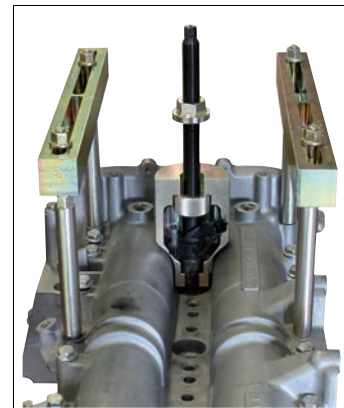
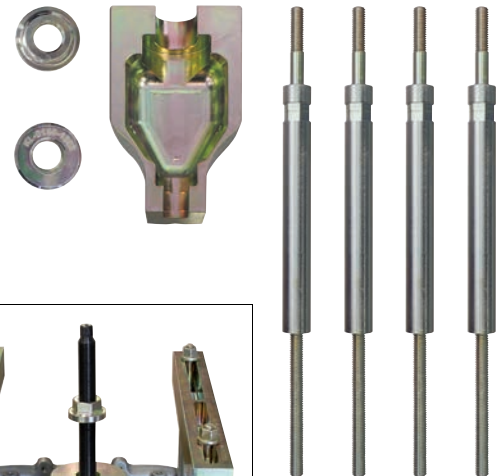
Necessary Accessories:

KL-0186-14 EA Injector Extractor Kit; depending on the injector, the Supplementary Kit **KL-0186-128..** may be required.

Scope of Delivery: KL-0186-132 Support Bolt/Supplementary Kit for KL-0186-14 EA

| Part No. | Description | Qty |
|------------------|------------------------------|-----|
| KL-0186-1232-1 L | Support Bolt, 175mm | 4 |
| KL-0186-1321 | Special Injector Puller Claw | 1 |
| KL-0186-1322 | Knurled Nut | 1 |
| KL-0186-1323 | Hex Nut | 1 |

7 pcs.



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2 pcs.



KL-0186-1281

(Code 3293823)

Supplementary Kit Siemens Injector M25x1

Fits Siemens injectors with an internal thread of M25x1 and a wrench size of 25mm. For example, fits particularly with VW, Audi, Seat, Škoda 1.6 TDI (CAYA, CAYB, CAYC, CAYD, CAYE, CLNA)

By using the supplementary kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned injectors and engines.

Necessary Accessories:

KL-0186-14 EA Injector extractor kit; depending on the engine, the support bolt kit **KL-0186-123.. / -124..** may be required.

Alternative Drive:

Injector Extractor Adapter **KL-0369-4111** and Impact Extractor **KL-0049-300** (4.8kg) or **KL-0369-4100** (1.5kg)

Scope of Delivery:

KL-0186-1281 Supplementary Kit Siemens Injector M25x1

| Part No. | Description | Qty |
|--------------|-------------------------|-----|
| KL-1383-1021 | Pull Spindle M25x1 | 1 |
| KL-1383-1022 | Special Socket (waf) 25 | 1 |



2 pcs.



KL-0186-1282

(Code 3293831)

Supplementary Kit Siemens Injector M27x1

Fits Siemens injectors with an internal thread of M27x1 and a wrench size of 27mm.

By using the supplementary kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned injectors.

Necessary Accessories:

KL-0186-14 EA Injector extractor kit; depending on the engine, the support bolt kit **KL-0186-123.. / -124..** may be required.

Alternative Drive:

Injector Extractor Adapter **KL-0369-4111** and Impact Extractor **KL-0049-300** (4.8kg) or **KL-0369-4100** (1.5kg)

Scope of Delivery:

KL-0186-1282 Supplementary Kit Siemens Injector M27x1

| Part No. | Description | Qty |
|----------------|-------------------------|-----|
| KL-1383-1221 | Pull Spindle M27x1 | 1 |
| KL-1383-1222 A | Special socket (waf) 27 | 1 |



2 pcs.



KL-0186-1283

(Code 3293858)

Supplementary Kit Denso Injector M16x1

Fits Denso injectors with an internal thread of M16x1 and a wrench size of 17mm.

By using the supplementary kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned injectors.

Necessary Accessories:

KL-0186-14 EA Injector extractor kit; depending on the engine, the support bolt kit **KL-0186-123.. / -124..** may be required.

Alternative Drive:

Injector Extractor Adapter **KL-0369-4111** and Impact Extractor **KL-0049-300** (4.8kg) or **KL-0369-4100** (1.5kg)

Scope of Delivery:

KL-0186-1283 Supplementary Kit Denso Injector M16x1

| Part No. | Description | Qty |
|--------------|-----------------------|-----|
| KL-0186-1612 | Pull Spindle M16x1 | 1 |
| KL-4417-17 A | Fork Spanner (waf) 17 | 1 |

4.4 Injection System

KL-0186-1284 [Code 3293874] Supplementary Kit Denso Injector M20x1

Fits Denso injectors with an internal thread of M20x1 and an external thread of M25x0.5 / M25x0.75 and a wrench size of 27mm.

By using the supplementary kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned injectors.

Necessary Accessories:

KL-0186-14 EA Injector extractor kit; depending on the engine, the support bolt kit **KL-0186-123.. / -124..** may be required.

Alternative Drive:

Injector Extractor Adapter **KL-0369-4111** and Impact Extractor **KL-0049-300** (4.8kg) or **KL-0369-4100** (1.5kg)

Scope of Delivery:

KL-0186-1284 Supplementary Kit Denso Injector M20x1

| Part No. | Description | Qty |
|----------------|--------------------------------|-----|
| KL-0186-1611 A | Draw spindle M20x1 with 2 nuts | 1 |
| KL-1383-1222 A | Special socket (waf) 27 | 1 |
| KL-0186-2201 | Special Insert | 1 |

5 pcs.



KL-0186-1285 [Code 3293866] Supplementary Kit Delphi / Bosch Injector M18

Suitable for Delphi / Bosch injectors with lateral fuel connection (90° angle to the injector).

By using the supplementary kit, the injector extractor **KL-0186-14 EA** also fits the above-mentioned injectors.

Necessary Accessories:

KL-0186-14 EA Injector extractor kit; depending on the engine, the support bolt kit **KL-0186-123.. / -124..** may be required.

Alternative Drive: Impact Extractor **KL-0049-300** (4.8kg) or **KL-0369-4100** (1.5kg)

Scope of Delivery:

KL-0186-1285 Supplementary Kit Delphi / Bosch Injector M18

| Part No. | Description | Qty |
|--------------|------------------|-----|
| KL-0186-1711 | Draw Spindle M18 | 1 |
| KL-0369-420 | Nozzle Extractor | 1 |

2 pcs.



KL-0369-4111 [Code 2337711] Adaptor

This tool is designed for the extraction of injection nozzles which are only slightly seized in place.

Necessary Drive Parts (cf. Chapter Drives):

KL-0049-300 (4.8kg) or **KL-0369-4100** (1.5kg) Slide Hammer Puller

Recommended Accessory:

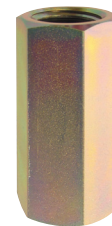
KL-0186-1281 / -1282 (Siemens),

KL-0186-1283 / -1284 (Denso),

KL-0186-1285 (Delphi / Bosch) - Upgrade Kit Injector specific

Technical Data:

| | |
|-----------|---------|
| Thread 1: | M18 |
| Thread 2: | M16x1.5 |





4 pcs.



KL-0680-80 K

(Code 3254402)

Injector Nozzle Puller in a Plastic Storage Case, Ford EcoBlue 2.0

Applicable to Ford 2.0 EcoBlue Diesel engines.

Fitted to: Ford Transit (2014 onwards) and Transit Custom (2012 onwards) etc.

Alternative tool: Ford 303-1690/1 + 303-1690/2 and 303-1690 respectively.

Allows for removing stuck/tight-fitting injector nozzles in situ on the vehicle, without having to dismantle the cylinder head.

Recommended Accessory:

KL-0369-59 Puller for Sealing Ring (Alternative tool: Ford 303-1690/3)

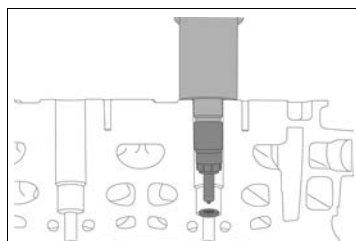
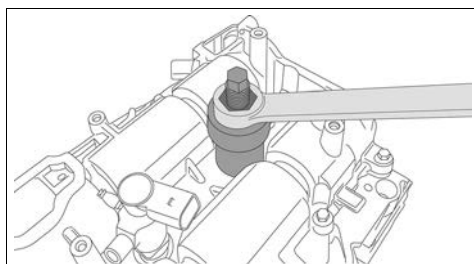
Note:

Stuck sealing rings on the injector nozzle seat can be removed properly by using the **KL-0369-59** puller which is available as accessory.

Scope of Delivery:

KL-0680-80 K Injector Nozzle Puller in a Plastic Storage Case, Ford EcoBlue 2.0

| Part No. | Description | Qty |
|--------------|------------------------------------|-----|
| KL-0680-800 | Support Sleeve with Bearing | 1 |
| KL-1383-1112 | Shoulder Nut, M16x1.5 | 1 |
| KL-0680-8002 | Pull Spindle, M17x0.75, 200mm long | 1 |
| KL-0680-8011 | Injector Removal Socket | 1 |
| KL-0680-8090 | Plastic Storage Case | 1 |



7 pcs.



KL-0187-100 E

(Code 3283798)

Injector Extractor Kit for Direct Injection Petrol Engines, in Foam Insert

Fits universally for passenger cars and vans with direct injection petrol engines with BOSCH, SIEMENS VDO, CONTINENTAL, MAGNETI-MARELLI, and DENSO injectors. Installed for example on VW-Audi, Seat, Škoda (FSI, TSI, TFSI), Alfa Romeo, BMW, Ford, Hyundai, Nissan, Mercedes, Opel, and many more.

Alternative tools: VW T10133, T10133/1, T10133/2, T10133/3, T10133/9; Ford 205-047, 205-047-08, 310-206; Nissan KV10119600; Opel / Vauxhall J-37281-A

For quick and professional removal of injectors on direct injection petrol engines. Required, for example, when replacing the injectors and when dismantling the valve cover.

For this, the injector is loosened and pulled out using the impact extractor. The different extractors allow safe operation on the respective injector.

Recommended Accessories:

KL-0187-101 Injector Repair Kit

Storage System:

KL-4990-9274 Plastic Case

Technical Data:

| | |
|---------------------------------------|-------|
| Impact weight: | 0.9kg |
| Length of impact extractor: | 300mm |
| Mounting thread for impact extractor: | M10 |

Scope of Delivery:

Injector Extractor Kit for Direct Injection Petrol Engines, in Foam Insert

| Part No. | Description | Qty |
|--------------|------------------------------------|-----|
| KL-0187-1001 | Extractor for impact hammer size 1 | 1 |
| KL-0187-1002 | Extractor for impact hammer size 2 | 1 |
| KL-0187-1003 | Extractor for impact hammer size 3 | 1 |
| KL-0187-1004 | Extractor for impact hammer size 4 | 1 |
| KL-0187-1005 | Extractor for impact hammer size 5 | 1 |
| KL-0049-1205 | Plastic sleeve | 1 |
| KL-0049-101 | Impact extractor base unit | 1 |
| KL-0187-1090 | Foam insert | 1 |



4.4 Injection System

KL-0187-101 [Code 3283828] Injector Repair Kit for Direct Injection Petrol Engines

Fits universally for passenger cars and vans with direct injection petrol engines with BOSCH, SIEMENS VDO, CONTINENTAL, MAGNETI-MARELLI, and DENSO injectors. Installed for example on VW-Audi, Seat, Škoda (FSI, TSI, TFSI), Alfa Romeo, BMW, Ford, Hyundai, Nissan, Mercedes, Opel, and many more.

Alternative tools: VW T10133, T10133/5, T10133/6, T10133/7, T10133/8; BMW 130280, 130281, 130282, 130283, 130190, 130192, 130193, 130194, 130195; Opel / Vauxhall EN-48266, 48266-1, 48266-2; Ford 310-128; Hyundai 09353-2B000; NISSAN / INFINITI KV10119750

For damage-free assembly of combustion chamber sealing rings (Teflon sealing rings), and O-rings (fuel side) on direct injection petrol injectors.

Before reinstalling a used injector, replace the sealing rings as specified by the manufacturer. The new sealing rings are simply pushed on the injector via the assembly cone with the aid of the calibration tool.

The sealing ring for the combustion chamber is additionally constricted (calibrated) in 2 stages at the seal-seat.

A new combustion chamber sealing ring which was not constricted during the installation will most probably be damaged when re-installing the injector.

Scope of Delivery:

KL-0187-101 Injector Repair Kit for Direct Injection Petrol Engines

| Part No. | Description | Qty |
|--------------|------------------|-----|
| KL-0187-1011 | Calibration tool | 1 |
| KL-0187-1012 | Mounting cone | 1 |
| KL-0187-1013 | Mounting cone | 1 |

3 pcs.



Recommended Accessories:

KL-0187-100 E Injector Extractor Kit for Direct Injection Petrol Engines

Storage System:

KL-4990-9274 Plastic Case, **KL-0187-1090** Foam Insert



KL-0369-59 [Code 1976877] Puller for Sealing Ring

Universally suitable for sealing rings with an internal diameter of from 4 to 16mm, e.g. injector nozzle sealing rings as found in Diesel engines on Ford, BMW, Mercedes, PSA etc.

Alternative tool: Ford 303-1690/3

The **KL-0369-59** puller allows for the professional removal of sealing rings; for example of those located between the injector nozzle and cylinder head.

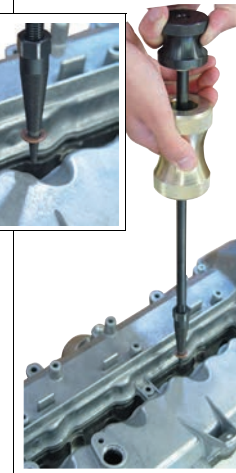
To remove the sealing ring, first screw the tapered tip of the tool into the ring, then pull it out by operating the slide hammer.

Technical Data:

| | |
|------------------------------|--------|
| Slide hammer weight: | 0.9kg |
| Length: | 385mm |
| For sealing ring internal Ø: | 4-16mm |

Scope of Delivery: KL-0369-59 Puller for Sealing Ring

| Part No. | Description | Qty |
|--------------|---------------------------------|-----|
| KL-0049-101 | Slide Hammer Puller (Base Tool) | 1 |
| KL-0369-5901 | Tip | 1 |



KL-0369-512 [Code 3293734] Set of Taps (M6 - M8)

Universally suitable for common rail Diesel engines such as by VW, Audi, Citroën, Fiat, Jeep, Mercedes, Peugeot, Smart, Seat, Škoda, and many others.

This set of taps enables professional re-cutting and cleaning of the threaded holes for the clamping screws on the injection nozzle holder or the injector fastening. These extra-long taps make it easy to reach the deep threads in the cylinder head without having to dismantle the valve cover.

Recommended Drive Parts:

GEDORE 8551 TG-2 Tool holder for taps

Technical Data:

| | |
|---------|--------------|
| Thread: | M6 / M7 / M8 |
| Length: | 100mm |

3 pcs.



Scope of Delivery:

KL-0369-512 Set of Taps (M6 - M8)

| Part No. | Description | Qty |
|---------------|---------------------------|-----|
| KL-0369-51 A | Tap M6 with drilling head | 1 |
| KL-0369-511 A | Tap M7 with drilling head | 1 |
| KL-0369-5121 | Tap M8 with drilling head | 1 |



4 pcs.



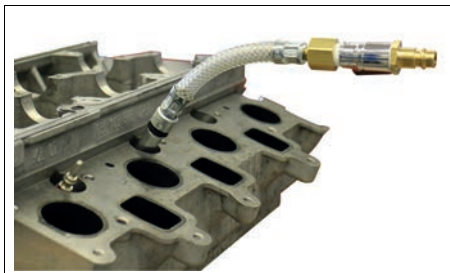
KL-0369-54 A

(Code 3091325)

Compressed Air Adaptor Kit

Universally suitable for use on M8x1, M9x1, M10x1 and M10x1.25 glow plug retaining threads, 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.

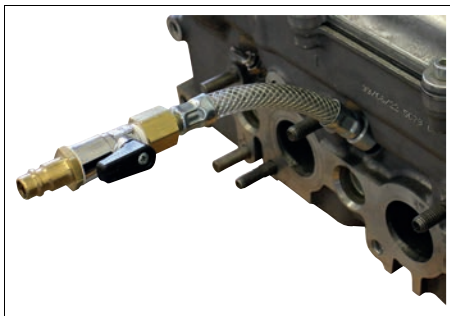
Technical Data:

| | |
|----------------------------------|--------------------------------|
| Connection thread: | M8x1 / M9x1 / M10x1 / M10x1.25 |
| Length (Compressed Air Adaptor): | 205mm |
| Length (Thread Adaptor): | 42mm |

Scope of Delivery:

KL-0369-54 A Compressed Air Adaptor Kit

| Part No. | Description | Qty |
|---------------|---|-----|
| KL-0369-540 A | 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 |



2 pcs.



KL-1383-30

(Code 2961857)

Seal Ring Installation Tool DV6 (16V)

Applicable to PSA 1.6 16V (DV6) Diesel engines. For example, fitted to Peugeot: 1007, 2008, 206, 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, HHJA, 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.

Technical Data:

| | |
|----------------------|--------|
| External Ø (sleeve): | 28.3mm |
| Length (sleeve): | 150mm |
| Length (guide cone): | 54mm |

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 |



4.4 - Injection System

KL-0186-70 K (Code 2948184) 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 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.

Necessary drive parts (cf. Chapter Drives):

KL-0186-14 EA Injector Nozzle Puller Set

KL-0040-175 B Hydraulic Cylinder (17t)

KL-0215-35 M25 Hydraulic Pump

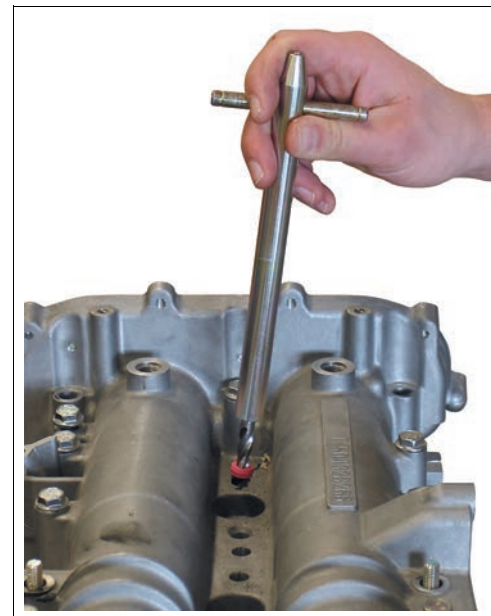
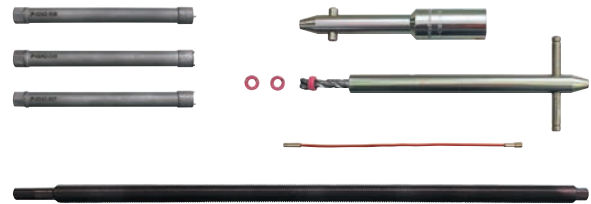
Technical Data:

| | |
|---|-------------|
| Maximum load capacity of the pull spindle: | 5t |
| Nozzle needle removal tool (max. torque): | 15Nm |
| Nozzle needle removal tool (length): | 150mm |
| 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 |

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 |

10 pcs.



KL-0186-53 K (Code 2918986) Cleaning Tool Set (Universal) for Injector Nozzle Seat

Universally suitable for use on 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 pump nozzle unit (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)

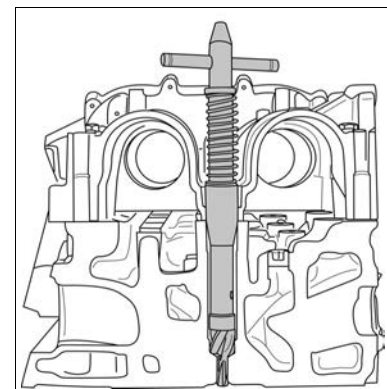
The cleaning tool set enables the quick and professional cleaning of both plane and conical injector nozzle seats. Before installing/re-installing an injector nozzle, it is essential to properly and thoroughly clean the seal seat in order to avoid leakage between cylinder head and injector nozzle. The 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.

Note: The cleaning tool set includes the KL-0186-52 cleaning tool.

Scope of Delivery: KL-0186-53 K Cleaning Tool Set (Universal) for Injector Nozzle Seat

| Part No. | Description | Qty |
|--------------|--|-----|
| KL-0186-50 B | Cleaning Tool for Injector Nozzle Seat | 1 |
| KL-0186-5202 | Cleaning Head, Ø 7.5/17mm | 1 |
| KL-1383-1329 | Plastic Storage Case | 1 |

3 pcs.



Technical Data:

| | |
|------------------|----------|
| Drive: | T-Handle |
| Length: | 238mm |
| Cleaning tool Ø: | 7.5/17mm |

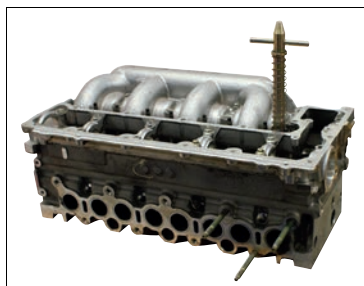


2 pcs.



KL-0186-50 B

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.

Recommended Accessory: KL-0186-501 Extension (150mm)

Technical Data:

| | |
|------------------|----------|
| Drive: | T-Handle |
| Length: | 238mm |
| Cleaning tool Ø: | 7.3/17mm |



KL-0190-41 A

[Code 3236579]

Release/Removal Pliers

Fits VW-Audi 1.6 and 2.0 common rail Diesel engines. For example, installed on Audi A1 (8X), A3 (8V), A4 (B9, 8W), A5 (8F), A6 (C7, 4G), Q3 (8U), Q5 (8R), TT (FV, 8S); VW Golf VII (AU, 5G), Passat (B8, 3G), Scirocco III (13), etc.

Plastic rivets for example on the wishbone of Audi A4, A5, A6

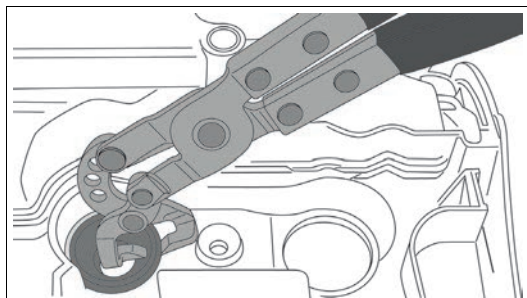
Alternative tool: VAS 211 007, T40195

For removing press-fit injector seal rings from the cylinder head quickly and with ease. The pliers are also designed to unlock and pull out the re-usable two-part plastic body-bound rivets from door and underbody panels.

The pliers head can be adjusted up to an angle of 90°, thus allowing you to work even in hard-to-reach areas.

Technical Data:

| | |
|---------|-------|
| Length: | 240mm |
|---------|-------|



KL-0193-10 A

[Code 2708264]

Pliers for Protection Cap

Universal application.

Suitable for use on VW-Audi, Seat, Škoda vehicles equipped with 2.0 Common Rail Diesel engines.

(Engine codes: DBAA, CBBB, CBAB, CBBA, CDBD, CBDC, CBAC, CBDA)

Intended for the removal of stuck and hard-to-reach glow plug connectors.

Also for the safe and damage-free removal of plastic protection caps from wheel bolts.



KL-0127-6

[Code 1753029]

Spark Plug Connector Pliers

Applicable to virtually any vehicle.

Alternative tool: W 103 589 00 37 00

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.

4.5 - Glow Plug / Spark Plug

KL-0127-81

[Code 1903888]

Ignition Coil Puller

Suitable for use on 1.4 and 1.6 16V petrol injection engines.

e.g. in VW Bora, Golf, New Beetle etc.

(Engine codes: AZD, BCA, BCB)

Alternative tool: T10094, T10094A

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-0127-86

[Code 3043193]

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 Kodiaq (NS7 / NV7), Octavia II (1Z), Octavia III (5E), Rapid (NH), 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)

Alternative tool: T10530

This tool is designed to remove and install ignition coils with final output stage. The expansion cone of the puller ensures that the tool is safely and securely held in the ignition coil without any risk of damage.



Technical Data:

| | |
|---------|------|
| Length: | 95mm |
|---------|------|

KL-0369-900 KC

[Code 3242757]

Set of Glow Plug/Spark Plug Sockets with Joint

Universal suitable.

Alternative tools: W 001 589 78 09 00, 3220, U-40082

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 on the inside with a retaining rubber to prevent the spark plug/glow plug from falling out unintentionally.

The long and slim design of the 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, the protective cap (supplied with the tool set) must always be used in order to protect the plug connector against dirt and electrostatic charging.

Recommended Accessory:

3093 U-20 Reversible Ratchet, 3/8"

4549-05 Torque Wrench, 10 - 50 Nm

3020 Reducer, 3/8" to 1/4"

Scope of Delivery: KL-0369-900 KC Set of Glow Plug/Spark Plug Sockets with Joint

| Part No. | Description | Qty |
|-----------------|---|-----|
| KL-0369-9001 A | Glow Plug Socket with Joint, Size (waf) 8mm | 1 |
| KL-0369-9002 A | Glow Plug Socket with Joint, Size (waf) 9mm | 1 |
| KL-0369-9003 A | Glow Plug Socket with Joint, Size (waf) 10mm | 1 |
| KL-0369-9007 A | Glow Plug Socket with Joint, Size (waf) 12mm, for 'PSG' Glow Plug | 1 |
| KL-0127-48 | Spark Plug Socket with Joint, Size (waf) 14mm | 1 |
| KL-0369-9006 A | Spark Plug Socket with Joint, Size (waf) 16mm | 1 |
| KL-0369-9007-10 | Protective Cap for 'PSG' Glow Plug | 5 |
| KL-0369-9090 C | Plastic Storage Case | 1 |

11 pcs.



1/4"

3/8"



Technical Data:

| | |
|-------------|------------------------|
| Size (waf): | 8, 9, 10, 12, 14, 16mm |
| Drive: | 1/4" + 3/8" |
| Length: | 85mm |



Technical Data:

| | |
|-------------|------|
| Size (waf): | 14mm |
| Drive: | 3/8" |
| Length: | 90mm |



KL-0127-43

(Code 1902172)

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.**

Designed to remove and install spark plugs.

Recommended Accessory:

3093 U-20 Reversible Ratchet, 3/8", **4549-05** Torque Wrench, 10 - 50Nm



Technical Data:

| | |
|-------------|-------|
| Size (waf): | 14mm |
| Drive: | 3/8" |
| Length: | 250mm |



KL-0127-44

(Code 1902180)

Spark Plug Socket, Size (waf) 14mm

Suitable for use on **Citroën C5 (HPI); Peugeot 207, 308 (1.6 16V), 406 (HPI); Renault Megane IV (1.2 TCE); Mini One 1.4 etc.**

Designed to remove and install spark plugs.

Recommended Accessory:

3093 U-20 Reversible Ratchet, 3/8", **4549-05** Torque Wrench, 10 - 50Nm



Technical Data:

| | |
|-------------|-------|
| Size (waf): | 16mm |
| Drive: | 3/8" |
| Length: | 250mm |



KL-0127-46

(Code 1902202)

Spark Plug Socket, Size (waf) 16mm

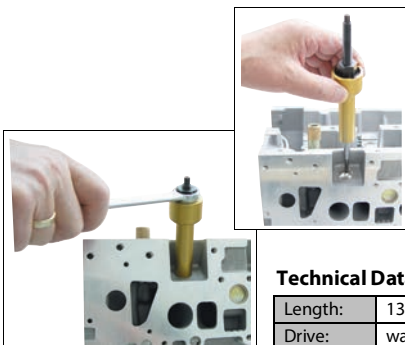
Suitable for use on **Jeep Compass; Kia Sportage (2.0 CVT); Skoda Fabia (1.2 TSI), etc.**

Alternative tool: KM-194-E, KM-6363

Designed to remove and install spark plugs.

Recommended Accessory:

3093 U-20 Reversible Ratchet, 3/8", **4549-05** Torque Wrench, 10 - 50Nm



Technical Data:

| | |
|---------|----------|
| Length: | 135mm |
| Drive: | waf 19mm |



KL-0369-201 A

(Code 2479176)

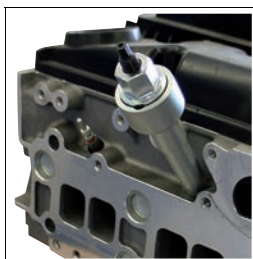
Glow Plug Removal Tool, Mercedes

Universally applicable to **Diesel engines having an M10x1 glow plug retaining thread and glow plugs with size (waf) of 10mm.**

The ideal tool for Mercedes CDI engines OM 611, 612, 613, 646*, 647 and 648 etc. (*except 646 EVO)

For extracting glow plugs that have been loosened, but are still stuck in their bore holes.

Recommended Accessory: **7 19** Combination spanner



Technical Data:

| | |
|---------|------------|
| Drive: | waf 19/6mm |
| Length: | 135mm |



KL-0369-202

(Code 2968223)

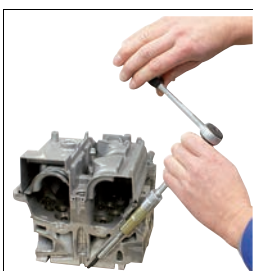
Glow Plug Removal Tool, M8x1

Universally applicable to **Diesel engines having an M8x1 glow plug retaining thread and glow plugs with 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.

Recommended Accessory:

7 19 Combination spanner



Technical Data:

| | |
|--------------|-----------|
| Electrode Ø: | 2.5-4.5mm |
| Length: | 70mm |
| Drive (waf): | 17mm |



KL-0369-300 A

(Code 2479184)

Roller-Type Stud Removal Socket

Suitable for electrodes with **Ø 2.5-4.5mm.**

The socket is used to twist the electrode top connector/protruding central electrode off the glow plug.

Recommended Accessory: **1993 U-20** Reversible Ratchet 1/2"

4.5 - Glow Plug / Spark Plug

KL-0132-56 EB (Code 3256820)

Universal Glow Plug Tool Set, in a Foam Insert

77 pcs.



Universally applicable to Diesel engines having either an M8x1 or M10x1 glow plug retaining thread.

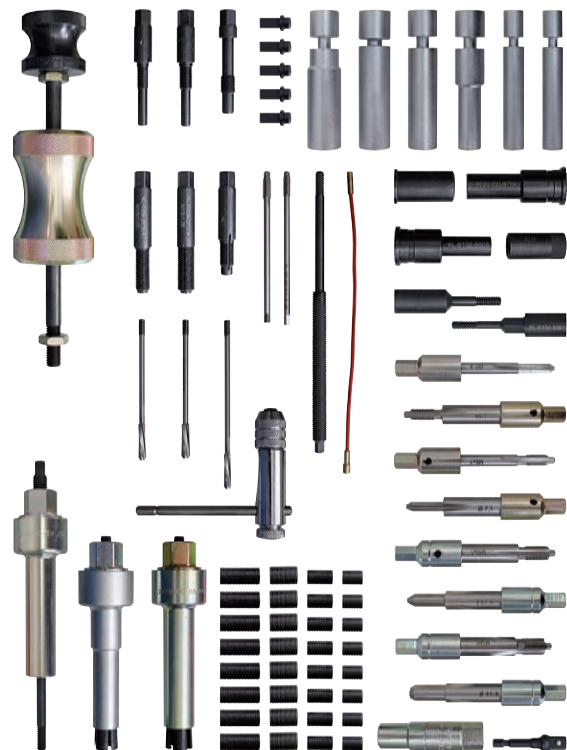
The ideal tool set for Mercedes (OM639, OM640, OM642, OM651); Fiat, Citroën, Peugeot, IVECO 2.3 JTD/HDI, 3.0 JTD/HDI, as well as Fiat, Alfa, Lancia 1.3 JTD Common Rail Diesel engines (F1A, F1C, F30 DT, 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000) and VW-Audi 2.5, 2.7, 3.0 V6 TDI engines.

The set contains all the tools required for the accurate drilling out and removal of broken-off and/or stuck/seized glow plugs as well as for re-tapping and cleaning the M8x1 and M10x1 glow plug retaining thread and aperture. It also allows the user to repair a damaged glow plug retaining thread by drilling it up from M8x1 to M10x1 and from M10x1 to M12x1 respectively. Then, the new glow plug fitted with an appropriate threaded sleeve (supplied with the set) can be screwed into the cylinder head. With the aid of the compressed air adaptor, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter when drilling out the glow plug.

The long and slim glow plug sockets with joint are designed to ease the removal of deep-seated and hard-to-reach glow plugs and spark plugs.

Scope of Delivery: KL-0132-56 EB Universal Glow Plug Tool Set, in a Foam Insert

| Part No. | Description | Qty |
|----------------|--|-----|
| KL-0369-201 A | Glow Plug Removal Tool | 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 | 1 |
| KL-1383-2042 | Set of Threaded Sleeves, M10x1, 26mm long | 1 |
| KL-0369-3023 | Set of Threaded Sleeves, M10x1, 17mm long | 1 |
| KL-0369-3050 | Puller Tool (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-0283-7021 | Pilot Drill, Ø 9.1mm for M10x1 | 1 |
| KL-0283-7022 | 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 | Tap Wrench, with Square Socket | 1 |
| KL-0369-9001 A | Glow Plug Socket with Joint, 8mm waf, 1/4" | 1 |
| KL-0369-9002 A | Glow Plug Socket with Joint, 9mm waf, 1/4" | 1 |
| KL-0369-9003 A | Glow Plug Socket with Joint, 10mm waf, 3/8" | 1 |
| KL-0369-9007 A | Glow Plug Socket with Joint, 12mm waf, 3/8", for 'PSG' Glow Plug | 1 |
| KL-0127-48 | Spark Plug Socket with Joint, 14mm waf, 3/8" | 1 |
| KL-0369-9006 A | Spark Plug Socket with Joint, 16mm waf, 3/8" | 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-1383-2231 | Pilot Drill, Ø 7.1mm for M8x1 | 1 |
| KL-1383-2232 | 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 A | Foam Insert | 1 |





9 pcs.



KL-0132-55 K

(Code 2691566)

Glow Plug Tool Set (Universal), M8x1

Suitable for use on M8x1 glow plug threads, 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.

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.

Recommended Accessory:

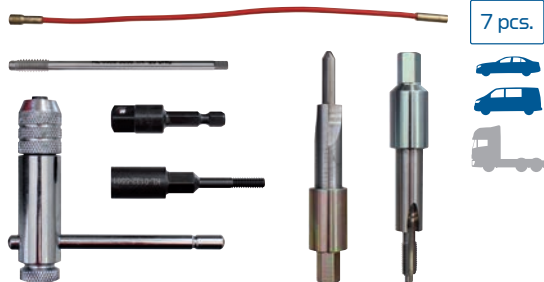
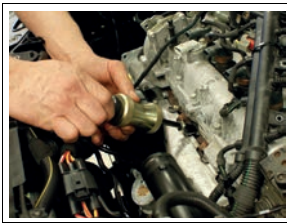
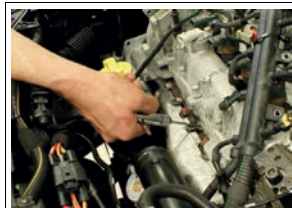
KL-0049-100 Slide Hammer Puller

KL-0369-300 A Roller-Type Stud Removal Socket

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 7.1mm, 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 | Tap Wrench 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 A | Plastic Storage Case | 1 |



7 pcs.



KL-0132-61 KA

(Code 3043800)

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 KA** glow plug tool set enables the quick and easy drilling out of damaged and broken-off glow plugs.

First, the glow plug, the glow plug top portion respectively, 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. The remains of the glow plug body can then be removed by using either the screw tap or the puller bolt in conjunction with a slide hammer puller.

Recommended Accessory:

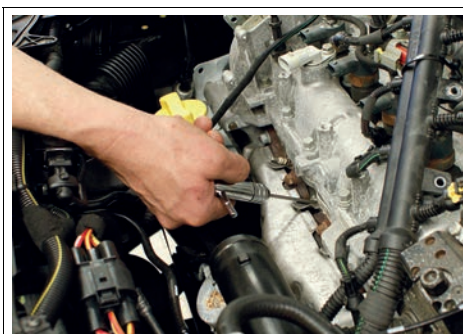
KL-0049-100 Slide Hammer Puller

KL-0369-300 A Roller-Type Stud Removal Socket

Scope of Delivery:

KL-0132-61 KA Glow Plug Tool Set (Universal), M9x1

| Part No. | Description | Qty |
|----------------|--|-----|
| KL-0126-221 | Flexible Magnetic Lifter | 1 |
| KL-0132-5501 | Puller Bolt No. 12-24 UNC, for Slide Hammer Puller | 1 |
| KL-0132-6101 | Pilot Drill, Ø 8.1mm, for M9x1 | 1 |
| KL-0132-6102 | Screw Tap, M9x1 | 1 |
| KL-0369-306 | Tap Wrench with Square Socket, 2.4-5.5mm | 1 |
| KL-1383-2241 | Screw Tap No.12-24 UNC, with Drill Bit | 1 |
| KL-4007-2510 | Adaptor for Power Drill, 3/8", Square | 1 |
| KL-0132-5590 A | Plastic Storage Case | 1 |



4.5 - Glow Plug / Spark Plug

KL-0132-52 K (Code 2123444) Glow Plug Tool Set (Universal), M10x1

Suitable for use on M10x1 glow plug threads; 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 portion, 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.

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.

Recommended Accessory:

KL-0049-100 Slide Hammer Puller, **KL-0369-300 A** Roller-Type Stud Removal Socket

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 | Tap Wrench 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 A | Plastic Storage Case | 1 |

9 pcs.



KL-0132-62 KA (Code 3043835) Glow Plug Tool Set (Universal), M10x1.25

Universally applicable to 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-Series; 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 KA** glow plug tool set enables the quick and easy drilling out of damaged and broken-off glow plugs.

First, the glow plug, the glow plug top portion respectively, 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. The remains of the glow plug body can then be removed using either the screw tap or the puller bolt in conjunction with a slide hammer puller.

Recommended Accessory:

KL-0049-100 Slide Hammer Puller, **KL-0369-300 A** Roller-Type Stud Removal Socket

Scope of Delivery:

KL-0132-62 KA Glow Plug Tool Set (Universal), M10x1.25

| Part No. | Description | Qty |
|----------------|---|-----|
| KL-0126-221 | Flexible Magnetic Lifter | 1 |
| KL-0132-5202 | Puller Bolt, 1/4"-20 UNC, for Slide Hammer Puller | 1 |
| KL-0132-6201 | Screw Tap, M10x1.25 | 1 |
| KL-0283-7021 | Pilot Drill, Ø 9.1mm, for M10x1.25 | 1 |
| KL-0369-3056 | Screw Tap, 1/4"-20 UNC, with Drill Bit | 1 |
| KL-0369-306 | Tap Wrench with Square Socket, 2.4-5.5mm | 1 |
| KL-4007-2510 | Adaptor for Power Drill, 3/8", Square | 1 |
| KL-0132-5590 A | Plastic Storage Case | 1 |

7 pcs.





32 pcs.



KL-0369-33 K

(Code 2433877)

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.

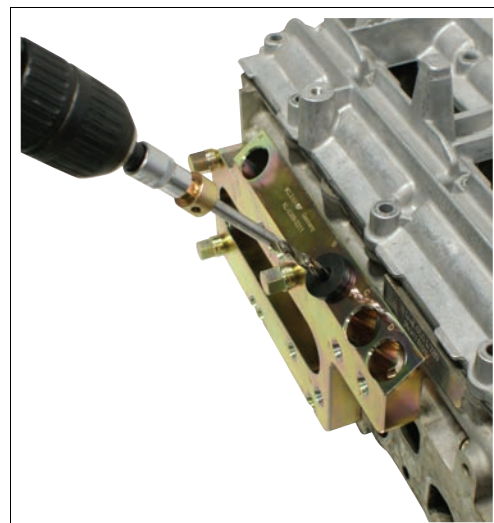
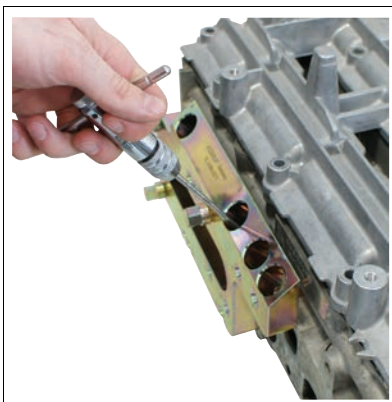
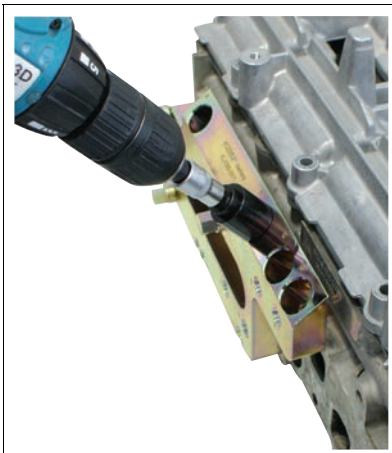
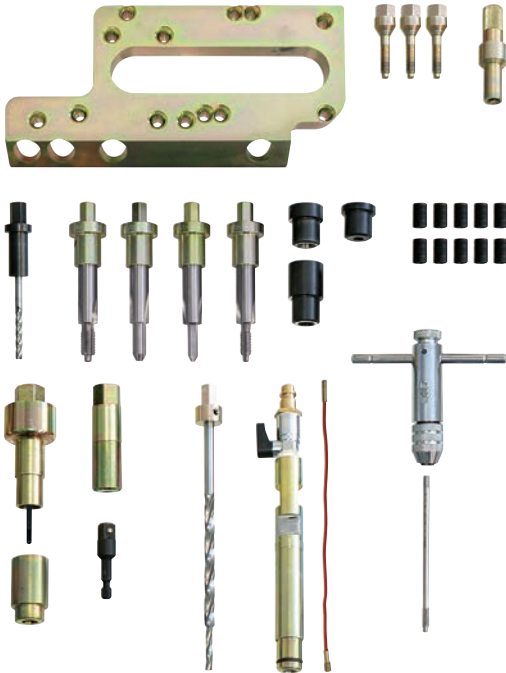
The use of the centring/guide sleeves in conjunction with the base plate ensures accurate and correct centring and guidance as well as the exact drilling depth when drilling out/repairing the thread. The remainder of the glow plug can be extracted with the puller.

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 | Tap Wrench 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 |



4.5 - Glow Plug / Spark Plug

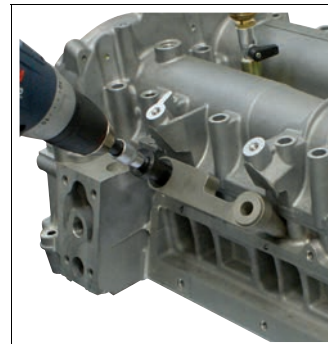
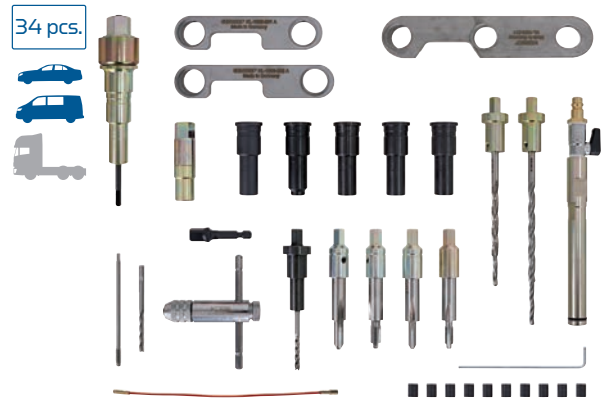
KL-1683-22 K (Code 3254453) Glow Plug Tool Set, M8x1

Suitable for use on Fiat, Alfa and Lancia 1.3 JTD (Euro 4) as well as 2.3 and 3.0 JTD / HDI Common Rail Diesel engines having an M8x1 glow plug retaining thread; as fitted to: Fiat 500 / 500C, Ducato, Doblo, Doblo Cargo, Doblo Work Up, Fiorino, Grande Punto, Idea, Linea, Panda, Punto, Punto Evo, Qubo, Strada Pick-up; Alfa MiTo; Lancia Musa, Ypsilon; IVECO Daily; Citroën Jumper; Peugeot Boxer.

The glow plug tool set includes all the tools required for the accurate removal/drilling out of broken-off and stuck glow plugs as well as for re-tapping and cleaning the original M8x1 glow plug retaining 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 an M10x1 to M8x1 threaded sleeve (also included) can be screwed into the cylinder head. With the aid of the compressed air adaptor, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Scope of Delivery: KL-1683-22 K - Glow Plug Tool Set, M8x1

| Part No. | Description | Qty |
|----------------|---|-----|
| KL-0369-300 A | Roller-Type Stud Removal Socket | 1 |
| KL-1683-2012 | Centring Sleeve | 1 |
| KL-1683-201 | Base Mounting Plate, 2.3 JTD | 1 |
| KL-1683-202 | Base Mounting Plate, 3.0 JTD | 1 |
| KL-1683-2031 | Guide Sleeve for Milling Cutter | 1 |
| KL-4007-2510 | Adaptor for Power Drill, 3/8" | 1 |
| KL-1683-2032 | Milling Cutter for Glow Plugs | 1 |
| KL-1683-2041 | 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 M10 | 1 |
| KL-0283-7022 | Screw Tap, M10x1 | 1 |
| KL-1683-2063 | Set of Threaded Sleeves, M8x1, 13mm long (10-pc.) | 1 |
| KL-0369-306 | Tap Wrench with Square Socket, 2.4 - 5.5mm | 1 |
| KL-1683-207 | Puller Kit for Glow Plug Body | 1 |
| KL-0369-56 B | Compressed Air Adaptor, M10x1 | 1 |
| KL-1683-2081 | Guide Sleeve for Reamer | 1 |
| 42 KEL 2,5 | Hex Socket Key, 2.5mm waf | 1 |
| KL-1683-2082 | Reamer, Ø 6.9mm, Ø 4.9mm | 1 |
| KL-0126-221 | Magnetic Valve Collet Lifter (flexible) | 1 |
| KL-1383-2031 | Milling Cutter for Glow Plug Electrode (Spare) (Ersatzfräser) | 1 |
| KL-1683-211 | Base Mounting Plate, 1.3 JTD | 1 |
| KL-1683-2112 | Guide Sleeve | 2 |
| KL-1683-212 | Reamer, Ø 6.9mm, Ø 4.9mm | 1 |
| KL-1683-2090 A | Plastic Storage Case | 1 |



Technical Data:

| | |
|---------------------------------|------|
| For glow plug retaining thread: | M8x1 |
|---------------------------------|------|

(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, F1A, F1C, F30 DT)

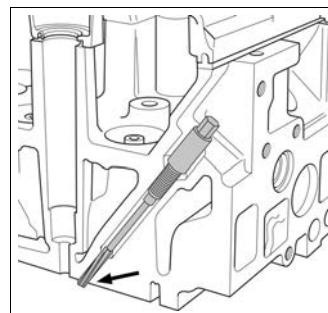
KL-0369-25 KA (Code 2802929) Reamer Set (adjustable) for Glow Plug Aperture, in a Plastic Storage Case

Universally suitable for use on Diesel engines with either an M8x1, M9x1 or M10x1 glow plug retaining thread. The ideal tool set for BMW 1.6 and 2.0 Diesel engines as 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).

The set of adjustable reamers is designed to clean out 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 be accurately adapted to the respective engine type. The special design of the tool and the cleaning groove in the holder allow carbon deposits to be removed from glow plug retaining threads and glow plug apertures carefully and effectively.

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)

4. Engine Maintenance/Repairs

4.5 - Glow Plug / Spark Plug



KL-0132-53 K

(Code 2395843)

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**.

Recommended Accessory:

3093 U-20 Reversible Ratchet, 3/8"

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 |



KL-0132-51 K

(Code 2480719)

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**.

Recommended Accessory:

3093 U-20 Reversible Ratchet, 3/8"

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 |



KIS

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4.6 - Valve Train - Universal / VAG

KL-0282-35 B (Code 2871300)

Reaction Wrench Kit
(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.

Alternative tool: 3036, 0606-A1, 0606-A1Y, 0606-A2, 09917-68221, 1.860.831.000, 1.860.831.001, 1.860.831.002, 1.860.885.000, 1.870.815.000, 1.870.836.000, 15-030 A, 18G 1521, 205-072, 49 D011 102, 49 G011 103, 49 S120 710, 6016-T, 6310-T, EN-47634, EN-49979, KM-6245, KM-6347, MD998747, Mot.799, Mot.799-01, MP-1-216, T10172, T10172/1, T10172/2, T10172/4, T10172A, T20018, T20018A, T20018B, T20018B/1, T20018B/2, T20018B/3, T30004, T97T-6256-B

Designed to counter-hold timing belt sprockets on camshafts, injection pumps etc., for example, when loosening/tightening the central fastening bolt. The different interchangeable pins and the adjustable lever allow the tool to be adapted to various hole diameters and PCDs. Thanks to these features, the wrench is virtually universally applicable.

Scope of Delivery: KL-0282-35 B Reaction Wrench Kit (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 |

11 pcs.



Technical Data:

| | |
|----------------------|------------------------|
| Pitch between pins: | from 14-130mm |
| Pin Ø: | 6mm, 7.5mm, 12mm, 18mm |
| Pin height: | 25mm/42mm |
| Overall tool length: | 470mm |

KL-0182-1 B (Code 2955911)

Flywheel Locking Tool

Universal application.

Alternative tool: 6012-T, W 607 589 01 40 00, Mot.582, Mot.582-01

For locking the flywheel when the gear box has been removed.

Advantages:

- No damage to the flywheel gear rim.
- Universal application.



KL-0280-19 A (Code 3079880)

Locking Tool for Crankshaft Sprocket
(Timing Belt), VW-Audi

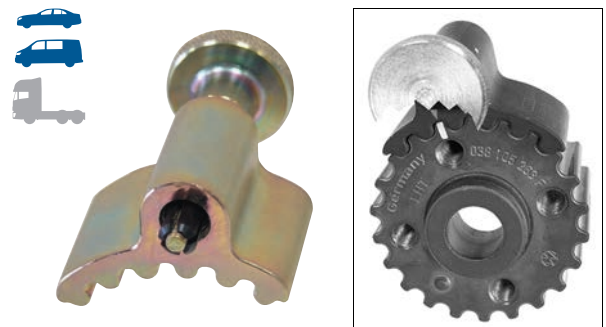
Applicable to VW-Audi, Ford, Seat, Škoda 3- and 4-cylinder TDI pump nozzle unit (unit injector) engines; e.g. 1.2, 1.4, 1.9 and 2.0 engines with round crankshaft sprocket (timing belt).

Alternative tool: 23-059, 310-085, MB995209, T10050

Used for locking the crankshaft in position.

An indispensable tool when replacing a timing belt or performing engine repairs.

Note: The expanding collet ensures the correct and secure fit of the tool in the housing bore.



KL-0280-20 A (Code 3079937)

Locking Tool for Crankshaft Sprocket
(Timing Belt), VW-Audi 1.9, 2.0 TDI PD

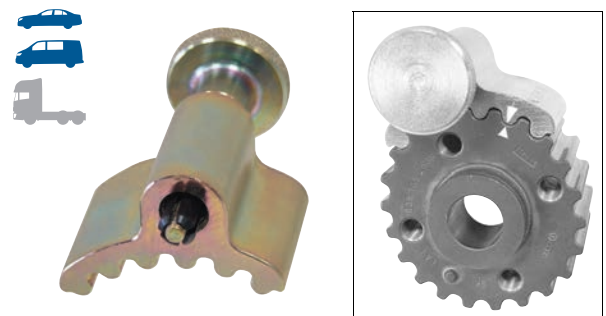
Applicable to VW-Audi, Seat, Škoda 1.9 and 2.0 TDI pump nozzle unit (unit injector) engines with oval crankshaft timing belt sprocket as found in Audi A3 (8P), A4 (8H), A6 (4F); Seat Leon (1P), Toledo (5P), Alhambra (7V), Altea/Altea XL (5P); Škoda Octavia II (1Z), Superb (3U), Superb II (3T); VW Caddy (2K, 2C), Eos (1F), Golf V (1K), Golf Plus V (5M), Jetta (1K), Passat V (3C), Polo IV (9N), Sharan (7M), Touran (1T, 9R), Transporter T5 (7J, 7H, 7E, 7F).

Alternative tool: 8949, T10100

The tool is used for locking the crankshaft in position.

Necessary when replacing a timing belt or during engine repairs.

Note: The expanding collet/pin ensures the correct and secure fit of the tool in the housing bore.



(Engine codes: ASZ, ATD, AVQ, AXB, AXC, AXR, AZV, BDJ, BJB, BKC, BKD, BKE, BLB, BLS, BLT, BMM, BMN, BMP, BMT, BNA, BPW, BRB, BRC, BRD, BRE, BRF, BRM, BRR, BRS, BRT, BRU, BSS, BST, BSU, BVA, BVF, BVG, BVH, BXE, BXF, BXJ, BXJ etc.)



6 pcs.



KL-0280-702 K (Code 2805294)

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 pump nozzle unit (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.

(Engine codes: AJM, AMF, ANU, ANY, ARL, ASZ, ASZ1, ATD, ATL, AU, 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, BNW, 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, CJCB, CKTB, CKTC, CKUC, CLCA, CLCB, CLJA, CLLA, CMEA)

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 A | Locking Tool | 1 |
| KL-0280-20 A | Locking Tool | 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 |
| R62701419 | Screw Driver Bit Socket, XZN-M14, 100mm | 1 |
| KL-0280-7029 | Plastic Storage Case | 1 |

Alternative tool: 3212, T10115, 303-1054, T10008, 310-084, T10050, 310-085, T10100, T10265, T20197, T10264, T10409, T40098, T10060, T10060 A, T20167, T10020, 3387, U-30009 A, Matra V159, 303-1053, T10241, 3411, 3369, T10093, T20070, T30092, 3359, T20102, MP-1-301, T10385, T10061



7 pcs.



KL-0280-706 KA (Code 3068846)

Locking Tool Set, VW 1.4/1.6/2.0 TDI

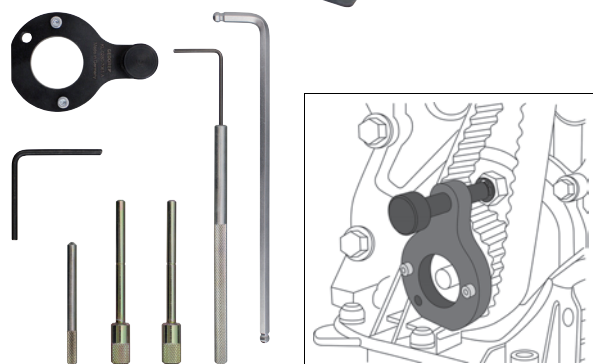
Applicable to VW-Audi, Seat and Škoda vehicles fitted with either a 1.4, 1.6 or 2.0 Common Rail Diesel engine. For example: VW Golf VII (5G, BE), T6; Audi A3 (8V), A4 (8K), A5 (8T, 8F), A6 (4G), Q5 (8R); Seat Leon (5F) and Škoda Octavia III (5E) etc. (Engine codes: CKFB, CKFC, CLHA, CLHB, CNHA, CNHC, CRBC, CRBD, CRFA, CRFC, CRKA, CRKB, CRLB, CRMB, CRVA, CRVC, CSUA, CSUB, CUNA, CUPA, CUSA, CUSB, CXFA, CXHA, CYZB, DFSE)

Alternative tool: T10265, T10264, T10060A, T10490, T10492, 3359

For the locking of camshaft, crankshaft, high-pressure pump, timing belt tensioner and auxiliary belt tensioner (poly V-belt). An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-706 KA Locking Tool Set, VW 1.4/1.6/2.0 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 A | Locking Tool for Crankshaft | 1 |
| KL-0280-7062 A | Locking Tool Set for Camshaft | 1 |
| KL-1480-16 | Locking Pin, Ø 6mm | 1 |
| KL-0280-7069 | Plastic Storage Case | 1 |



4.6 - Valve Train - VAG

KL-0280-106 A (Code 2478897)
Locking Tool Set, VW-Audi

Applicable to VW-Audi Diesel engines.

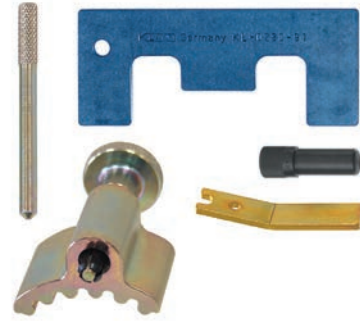
Alternative tool: 2064, 5193, T10008, 3359, T20102, T10050, 3268, 3418, 2065-A, T10098, T20038

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 | Suitable for |
|--------------|--|--|
| 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 pump nozzle unit (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 pump nozzle unit engines. |
| KL-0280-19 A | Locking Tool for Crankshaft (German Utility Model) | For locking the crankshaft; applicable to VW-Audi, Ford, Seat, Škoda 3- and 4-Cyl. TDI pump nozzle unit (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. |

5 pcs.

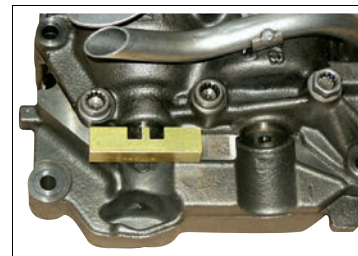


KL-0280-625 (Code 2540746)
Locking Tool for Balance Shaft, VW-Audi

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)

Alternative tool: T10255

This tool is used to lock the balance shaft when removing/installing a balance shaft module.



KL-0184-021 (Code 2814536)
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 in: VW Crafter, T4. Engine codes: AJA, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB

Alternative tools: 2066, 2079, 3248, 3256, 3419, 3099, 3248A, MP-1-310, T10025

This tool is designed to counter-hold the crankshaft pulley when loosening/tightening the crankshaft central screw. An indispensable tool when replacing timing belts, sealing rings or flywheels and for engine repairs.

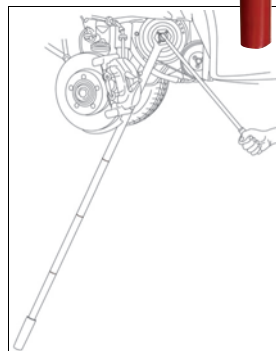
Technical Data:

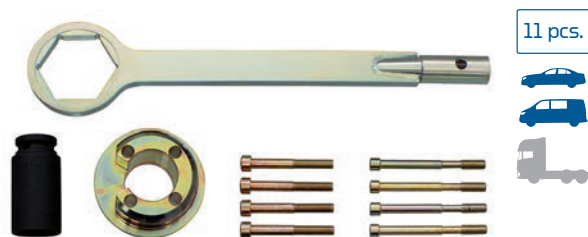
| | |
|--|-------|
| Overall length (assembled tool): | 1.8m |
| Length of extension tube: | 400mm |
| Length of extension tube with protective handle: | 403mm |
| Length of base tool: | 401mm |
| Drive of hex socket: | 1/2" |

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 |

19 pcs.





11 pcs.



KL-0184-0210

[Code 2814528]

Counter-Holding Tool (Base Tool with Adaptor)

Applicable to VW-Audi 4- and 5-cylinder engines, both with and without vibration damper. Fitted to VW Crafter, T4.

(Engine codes: AJA, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB)

Alternative tool: 2066, 2079, 3248, 3256, 3419, 3099, 3248A, MP-1-310, T10025

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.

Note:

In order to obtain the full tool length, you will additionally need 3x extension tube **KL-0184-0102**, 1x extension tube with protective handle **KL-0184-0101** and 4x folding spring bolt **KL-0184-0103**.

Technical Data:

| | |
|----------------------|-------|
| Length of base tool: | 401mm |
| Drive hex socket: | 1/2" |

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 |



9 pcs.



KL-0280-29 KA

[Code 2805367]

Locking Tool Set, VW 2.5 TDI

Suitable for use on VW 2.5 TDI engines as found in:

VW Touareg, Transporter T5.

(Engine codes: AXD, AXE, BAC, BLJ, BLK, BNZ, BPC, BPD, BPE)

Alternative tool: T10199/1, T10199, T10234, T10198, T10226, T10193, T10225

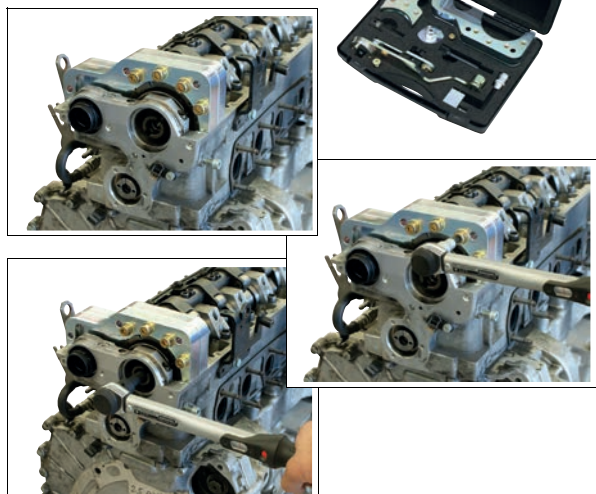
Very useful tool set for the locking/positioning of camshaft and crankshaft. Includes all the tools required to pre-load and lock the gear train when adjusting the valve timing as well as a special tool for turning the crankshaft.

An indispensable tool set when performing an engine repair.

Scope of Delivery:

KL-0280-29 KA Locking Tool Set, VW 2.5 TDI

| Part No. | Description | Qty |
|--------------|---------------------------------|-----|
| KL-0280-291 | Retaining Tool | 1 |
| KL-0280-292 | Retaining Tool | 1 |
| KL-0280-293 | Adjustment Tool | 1 |
| KL-0280-273 | Locking Tool for Camshaft | 1 |
| KL-0284-823 | Special Crankshaft Tool | 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 |
| R62701019 | Screwdriver Bit Socket, XZN-M10 | 1 |
| KL-0280-2990 | Plastic Storage Case | 1 |



KL-0284-91 A

[Code 2820684]

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.

Alternative tool: 3387, 303-1053, Matra V.159, MB995207, MP-1-302, T10020, T20197, U-30009, U-30009A, VAG3387

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)

4.6 - Valve Train - VAG

KL-0286-11 (Code 1867938)
Guide Pin Set for Front-End Carrier,
VW-Audi

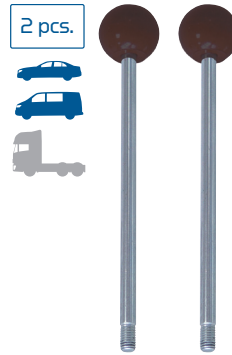
Applicable to VW- Audi A4, A5, A6, A8, Q5, S6, Passat (3B), T5, Touareg; Seat Exeo; Škoda Superb.

Alternative tool: 3369, 3411, T10093, T10228, T20070, T30092

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.

2 pcs.



Technical Data:

| | |
|---------|-------|
| Length: | 190mm |
|---------|-------|

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)

Alternative tool: T20119, T20119A, T40001, T40001/2

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.

Recommended Accessories: 3093 U-20 - Reversible ratchet 3/8"

Technical Data:

| | |
|----------------------|-------|
| Drive: | 17mm |
| Max. pulling width: | 100mm |
| Max. pulling height: | 38mm |
| Max. load capacity: | 2t |
| Weight: | 1.3kg |

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 |

5 pcs.



KL-0284-17 (Code 1755072)
Adjuster for Timing Belt Tensioner

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)

Alternative tool: 3355

For tensioning and relieving the tension on the automatic timing belt tensioner pulley.



Technical Data:

| | |
|-------------|-------|
| Length: | 175mm |
| Size (waf): | 32mm |

KL-0280-766 KA (Code 3086240)
Locking Tool Set, VW 1.0

Suitable for the VW, Seat and Skoda 1.0 (3-cylinder) petrol engines as fitted to VW Polo, up!; Seat Mii, and Skoda Citigo. (Engine codes: CHYA, CHYB, CPGA)

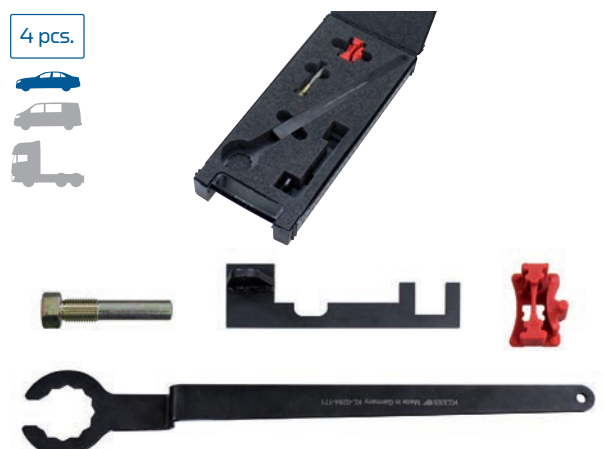
Alternative tool: T10499, T10477, T10476, T10340

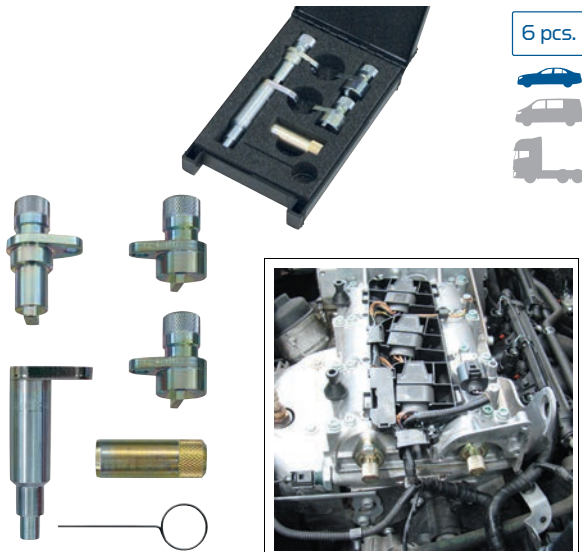
For the locking/positioning of camshafts, crankshaft and timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-766 KA Locking Tool Set, VW 1.0

| Part No. | Description | Qty |
|----------------|--|-----|
| KL-0280-7661 A | Locking Tool for Camshaft | 1 |
| KL-0280-7662 A | Locking Tool for Camshaft Sprockets | 1 |
| KL-0280-6022 A | Locking Screw for Crankshaft | 1 |
| KL-0284-171 | Adjustment Tool for Timing Belt Tensioner, Size (waf) 30mm | 1 |
| KL-0280-7669 | Plastic Storage Case | 1 |

4 pcs.





6 pcs.



KL-0280-108 KB

(Code 2817918)

Locking Tool Set, VW-Audi 3-Cyl. Engines

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. (Engine codes: AHT, AWY, AZQ, BBM, BMD, BME, BXV, BZG, CEVA, CGPA, CGPB, CHFA, CHFB)

Alternative tool: T10120, T10123, T10121, T10043, T40011

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-Audi 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 |



8 pcs.



KL-0280-767 KB

(Code 3246221)

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-litre TSI/FSI petrol engine. For example: 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). (Engine codes: CHPA, CJZA, CJZB, CJZC, CJZD, CMBA, CPTA, CPVA, CPVB, CPWA, CXSA, CYVA, CYVB, CZCA, CZDA, CZEA)

Alternative tools: T10060 A, T10340, T10487, T10494, T10499, T10504, T10504/1, T10504/2

For locking the camshafts, crankshaft and auxiliary belt tensioner (V-ribbed belt). The set also includes a special tool for positioning the timing belt tensioner as well as one that is used to push on the timing belt to ease the insertion of the camshaft locking tool. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-767 KB Locking Tool Set, VW 1.2 / 1.4 TSI / FSI

| Part No. | Description | Qty |
|----------------|--|-----|
| KL-0280-7671 B | Locking Tool, Camshaft | 1 |
| KL-0280-7672 A | Locking Tool, Camshaft | 1 |
| KL-0280-7673 | Special Tool for Camshaft | 1 |
| KL-0284-171 | Adjustment Tool for Timing Belt Tensioner, Size (waf) 30mm | 1 |
| KL-0280-6022 A | Locking Screw for Crankshaft | 1 |
| KL-0280-222 | Locking Pin, Ø 4mm, angled | 1 |
| KL-0280-7679 A | Plastic Storage Case | 1 |



5 pcs.



KL-0280-602 KC

(Code 2805162)

Locking Tool Set, VW-Audi

Applicable to VW-Audi 1.2 TSI/FSI, 1.4 FSI/TSI/FSI 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, CTHC, BLG, BMY, BWK; TFSI: CAVG, CAXA, CAXC, CBZA)

Alternative tool: T10170A, T10171, T10171A, T10340, T40011, T10414

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.

Recommended Accessory: KL-0128-1 Dial Gauge

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 | Plastic Storage Case | 1 |

4.6 - Valve Train - VAG

KL-0282-53 K (Code 3257002)
Crankshaft Sprocket Puller Kit
(Timing Chain), VW 1.2 TSI

Applicable to VW-Audi, Seat and Skoda vehicles equipped with a 1.2 TSI petrol engine. For example: VW Golf VI (5K, AJ, 517), Golf PLUS (5M, 521), Polo V (6R, 6C) Jetta VI (162, 163, AV), Caddy III (2K, 2C), Beetle (5C), Touran (1T); Audi A1 (8X), A3 (8P); Seat Altea (5P), Leon (1P), Ibiza IV (6J, 6P), Toledo IV (KG); Skoda Fabia II (542, 545), Octavia II (1Z), Rapid (NH1, NH3), Roomster (5J), Yeti (5L). (Engine codes: CBZA, CBZB, CBZC)

Alternative tools: T30122, Skoda MP3-467, VW 40-105

The kit comes with all the tools required for the professional removal/installation (press-fitting) of the timing chain sprocket from/to the crankshaft. Using this tool, the time-consuming loosening and lowering of the engine can be avoided. Includes a flywheel locking tool for holding the crankshaft in position as well as a press ring that is used to press the shaft seal into the timing case cover.

Recommended Accessory: KL-0284-8 Holding Tool for Water Pump

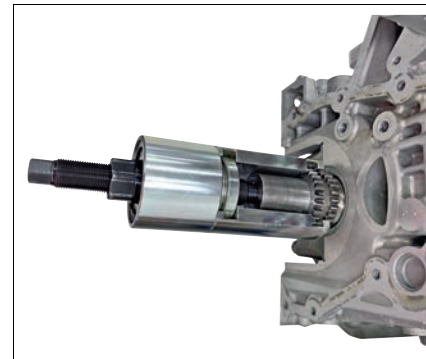
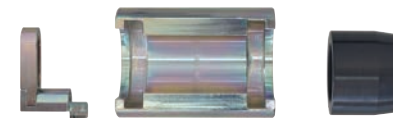
Technical Data:

| | |
|---------|-------|
| Ø: | 65mm |
| Length: | 240mm |
| Weight: | 4,1kg |

Scope of Delivery: KL-0282-53 K Crankshaft Sprocket Puller Kit (Timing Chain)

| Part No. | Description | Qty |
|---------------|--------------------------------|-----|
| KL-0282-531 | Crankshaft Sprocket Puller, VW | 1 |
| KL-0282-532 | Flywheel Locking Tool | 1 |
| KL-0282-533 A | Press Ring, Shaft Seal | 1 |
| KL-0282-5390 | Plastic Storage Case | 1 |

5 pcs.



KL-0184-022 (Code 2814595)
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 code: 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)

Alternative tool: 3415, 3415/1, 3415/2, T30004, T30004/1

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 fixing bolts to be loosened with ease.

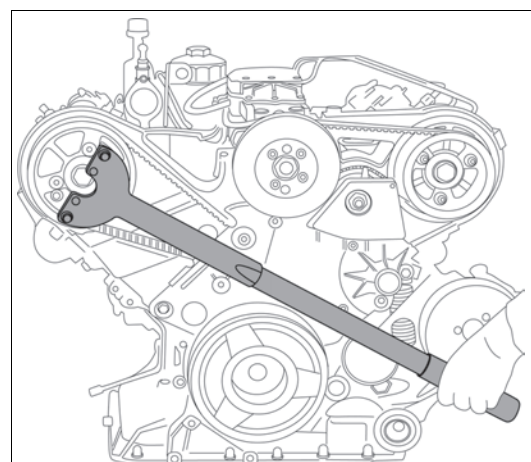
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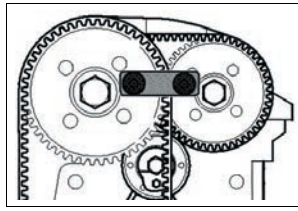
| | |
|--|--------|
| Overall length (of assembled tool): | 704mm |
| Length of base tool: | 351mm |
| Length of extension tube with protective handle: | 403mm |
| Pin Ø: | 11.5mm |
| Pin pitch: | 99.5mm |
| Pin height: | 31.5mm |
| Bolt thread: | M8 |
| Bolt pitch: | 45.5mm |
| Bolt height: | 18mm |

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 |

3 pcs.





KL-0280-17

[Code 1754920]

Locking Tool for Camshaft, VW-Audi

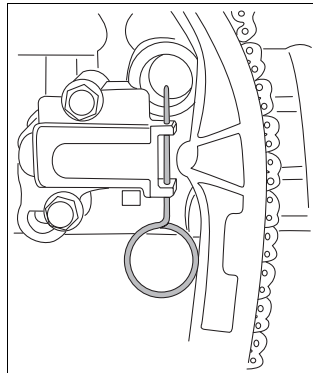
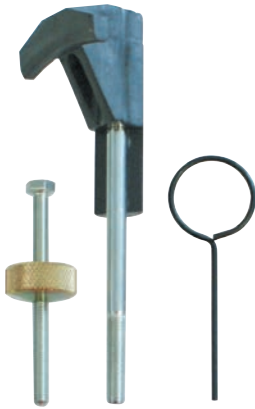
Applicable to VW-Audi, Seat, Škoda 1.4 and 1.6 petrol engines, as found in VW Lupo, Polo, Golf, Bora; Audi A2 etc.

(Engine codes: AFK, AHW, APE, AQQ, ARR, AUA, AUB, AUS, AVY, AXP, AZD, BBY, BBZ, BCA, BCB, BKY, BUD, BXW, CGGA, CGGB, CMAA etc.)

Alternative tool: T10016

Designed to lock both camshaft sprockets in place.

Required when replacing a timing belt or during an engine repair.



3 pcs.



KL-0280-601 A

[Code 2478935]

Locking Tool Set, VW-Audi

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.

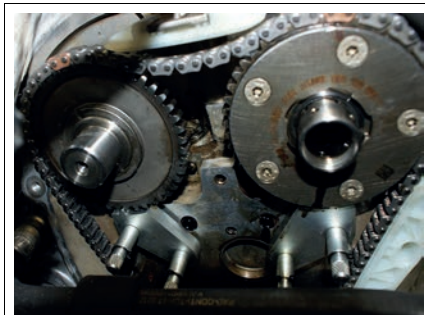
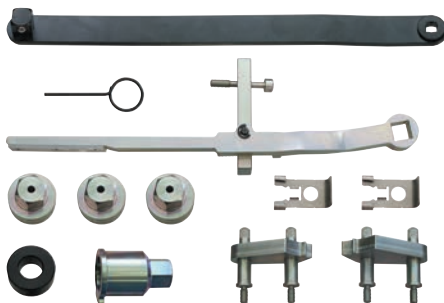
Alternative tool: 3366, T20044, T10092, T20046

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

| 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 |



12 pcs.



KL-0280-763 K

[Code 2900432]

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.

(Engine codes: BYT, BZB, CABA, CABB, CABD, CADA, CAEA, CAEB, CAWA, CAWB, CBFA, CCTA, CCZA, CCZC, CCZD, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CGYA, CJEB, CJSA, CJSB)

Alternative tool: T40011, T40271, T20208, T10352, T10352/1, T10352/2, T10368, T40243, T40267, T40266

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.

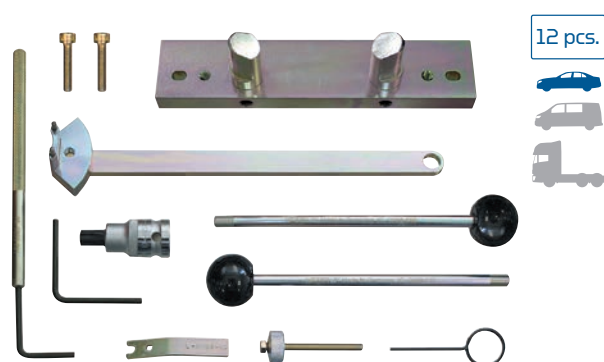
Scope of Delivery:

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 | Thrust 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 |

4. Engine Maintenance/Repairs

4.6 - Valve Train - VAG / BMW, Mini



12 pcs.



KL-0280-765 KA (Code 3083985)

Locking Tool Set, VW-Audi, 2.0 FSI/TSI/TFSI

Applicable to VW-Audi, Seat and Škoda vehicles equipped with a 2.0 FSI, TSI or TFSI petrol engine; such as Audi A3 / S3 (8P), A4 (8E, 8H), A6 (4B, 4F), TT (8J); Seat Altea/Altea XL (5P), Toledo III (5P), Leon (1P), Exeo (3R); Skoda Octavia II (1Z); VW Eos (1F), Golf (1K), Golf Plus (5M), Jetta (1K), Passat (3C), Touran (1T), Scirocco (137, 138); KTM X-Bow.

Designed for the locking/positioning of camshafts, timing belt and timing chain tensioners as well as of auxiliary drive belt (V-ribbed belt) tensioners. The kit also includes a tool 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 KA Locking Tool Set, 2.0 FSI/TSI/TFSI

| Part No. | Description | Qty |
|----------------|---|-----|
| KL-0180-3024 | Retaining Pin, Ø 2.4mm | 1 |
| KL-0280-16 | Holding Tool | 1 |
| KL-0280-221 | Locking Pin, Ø 4mm, angled | 1 |
| KL-0280-222 | Locking Pin, Ø 4mm, angled | 1 |
| KL-0280-6013 A | Tension Screw with Sleeve | 1 |
| KL-0280-7651 A | Locking Tool for Camshaft | 1 |
| KL-0284-91 A | Adjustment Tool for Timing Belt Tensioner | 1 |
| KL-0286-11 | Guide Pin Set for Front-End Carrier | 1 |
| KL-4051-3010 | Screwdriver Bit Socket | 1 |
| KL-0280-7659 | Plastic Storage Case | 1 |

(Engine codes: ALT, 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)

Alternative tool:

T10115, T10008, T40098, T10060A, T10092, T10252, T20197, T10020, 3387, 3369, T20070, 3411, T40080, T20079



7 pcs.



KL-0580-82 KB (Code 2897636)

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.

Alternative tool: 11 4 320, 11 8 760, 11 4 180, 11 6 480, 11 3 340, 11 5 320

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 |
| 6188450 (ITX 19 L T60-100) | 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 B | Plastic Storage Case with Insert | 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, N57-D30A, N57-D30A0, N57-D30O0, N57-D30O1, N57-D30T0, N57-D30U0)



7 pcs.



KL-0580-7 KB (Code 2898667)

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.

Alternative tool: 11 2 300, 11 3 340, 11 6 320, 11 6 321, 11 6 322, 11 6 080, 11 5 180

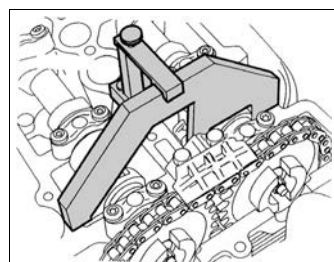
Designed for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as of the flywheel and timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Recommended accessory:

KL-0580-823 A Turning Tool for Crankshaft Pulley (included in KL-0580-82 KB)

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 |



(Engine codes: 204D4, 256D2, 306D2, 306D3, 306D4, 306D5, D30T2, YD30T2)



4.6 - Valve Train - BMW, Mini

KL-0580-21 (Code 1920022)
Puller for Injection Pump Sprocket, BMW

Applicable to BMW M47, M47R, M47TU, M51, M57, M57TU engines. (204D1, 204D3/TD4, 256D1, 306D1, 306D1/TD6, Y25DT)

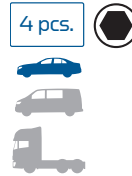
Alternative tools: 13 5 190, 13 5 191

Tool for fixing the injection pump sprocket and pushing out the injection pump shaft. Necessary when removing an injection pump.

Recommended Accessory: 3093 U-20 Reversible Ratchet, 3/8"

Technical Data:

| | |
|--------------|------|
| Drive (waf): | 17mm |
|--------------|------|



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 |

KL-0580-22 (Code 2787466)
Injection Pump Removal Tool

Applicable to BMW vehicles equipped with either an N47, N47S, N47T or N57 engine, e.g. E90 and F12/F13.

Alternative tools: 11 8 030, 11 8 031, 11 8 032, 11 8 740, 11 8 741, 12 8 741, 12 8 742, 13 8 742

Tool for fixing the injection pump sprocket when removing the injection pump.

Recommended Accessory: 3093 U-20 Reversible Ratchet, 3/8"

Technical Data:

| | |
|--------------|------|
| Drive (waf): | 12mm |
|--------------|------|



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 |

KL-0580-712 (Code 2991489)
Locking Tool for Flywheel

Suitable for the 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/O0, 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/O0, N54 B30A, N54 B30A/AA, W17D14)

Alternative tool: 11 8 180, 11 8 182, 11 8 183, 11 8 184, 11 8 185

The tool is needed to lock the flywheel while loosening/tightening the crankshaft central screw.



Scope of Delivery: KL-0580-712 Locking Tool for Flywheel

| Part No. | Description | Qty |
|--------------|------------------------------|-----|
| KL-0580-7120 | Flywheel Locking Tool | 1 |
| KL-0580-7124 | Profile | 1 |
| KL-0580-7125 | Fixing | 1 |
| KL-0580-7128 | Hexagon Head Screw M8 x 80mm | 1 |

KL-0580-44 KA (Code 2802430)
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 locking/positioning camshafts and crankshaft, as well as for pre-tensioning timing chain tensioners. The kit also includes a tool to adjust the VANOS Adjustment Units. An indispensable tool set when replacing a timing chain, removing and installing VANOS Adjustment Units or performing an engine repair.

Scope of Delivery: KL-0580-44 KA Locking Tool Set, BMW N40 and N45

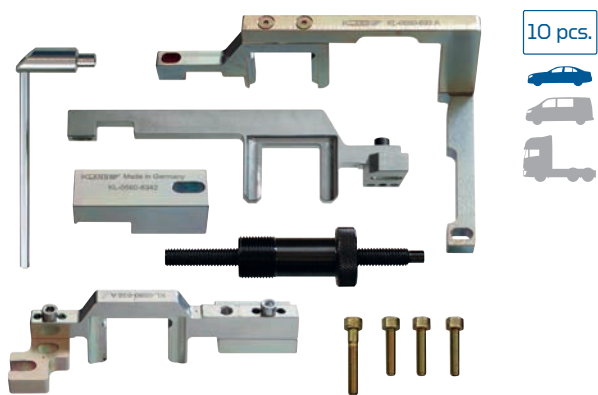
| Part No. | Description | Qty |
|------------------|--------------------------------------|-----|
| KL-0580-441 A | Locking Tool for Camshaft (inlet) | 1 |
| KL-0580-442 A | Locking Tool for Camshaft (exhaust) | 1 |
| KL-0580-443 A | Setting Gauge (Vanos) | 1 |
| KL-0580-8111 A | Retaining Pin for Flywheel | 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 |



Alternative tool:

11 7 260, 11 7 251, 11 7 252, 11 7 253, 11 9 190, 11 5 120, 11 9 340





10 pcs.



KL-0580-83 KA (Code 2792761) 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.

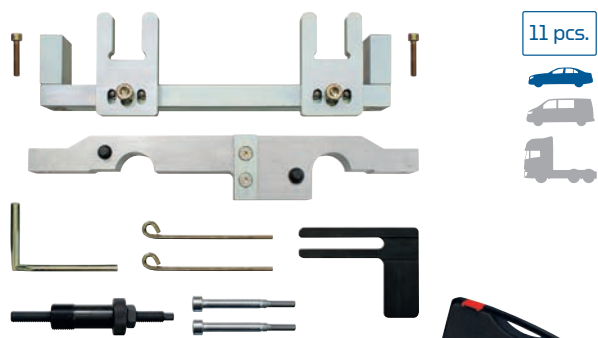
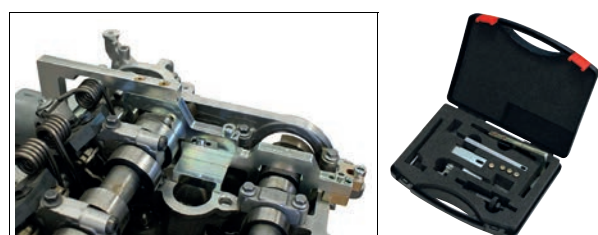
Alternative tool: 0197-B, 0197-BZ, 11 9 590, 0197-A1, 0197-A, 11 9 540, 11 9 550, 11 9 551, 0197-A3, 0197-A, 11 9 540, 0197-A2, 0197-A, 11 9 550, 11 9 551, 11 9 552, 0197-M, 11 9 340

For the locking and/or positioning of camshafts and crankshaft as well as for adjusting the VANOS adjustment units. The kit also includes a tool to pre-tension the timing chain tensioner.

An indispensable tool set when replacing timing chains, 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 |



11 pcs.



KL-0580-751 K (Code 2904713) Locking Tool Set, BMW

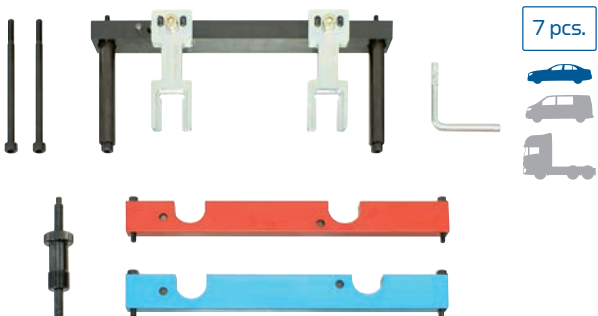
Applicable to 1.6 and 2.0 litre BMW engines; as found in BMW 1 Series, 3 Series, 5 Series. (Engine codes: N43-B16A, N43-B16AA, N43-B1600, N43-B20A, N43-B20AA, N43-B20AY, N43-B20K0, N43-B20U0)

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 |

Alternative tool: 11 8 690, 11 8 691, 11 8 692, 11 8 693, 11 8 710, 11 8 711, 11 8 712, 11 8 700, 11 3 340, 11 5 120, 11 9 340



7 pcs.



KL-0580-45 KA (Code 2641003) Locking Tool Set, BMW

Applicable to BMW vehicles with either a 2.5, 3.0 or 3.5 port-injection or direct-injection petrol engine with VALVETRONIC (VANOS); such as 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). (Engine codes: N51, N52, N52K, N53, N54, N55)

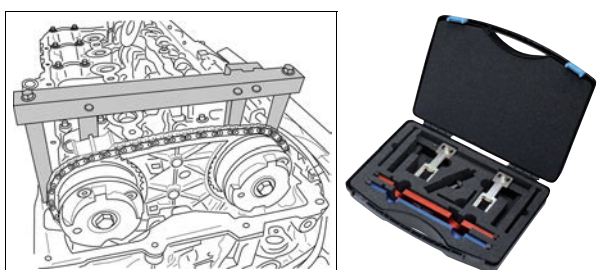
Alternative tool: 11 0 300, 11 4 280, 11 4 281, 11 4 282, 11 4 283, 11 4 285, 11 4 290, 11 8 520, 11 9 340

For the locking/positioning of camshafts and crankshaft, as well as for pre-tensioning the timing chain tensioner. The kit also includes all the necessary tools to adjust VANOS adjustment units.

An indispensable tool set when replacing a timing chain, removing and installing VANOS adjustment units or performing an engine repair.

Scope of Delivery: KL-0580-45 K Locking Tool Set, BMW

| 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 |



4.6 - Valve Train - BMW, Mini / Mercedes / Ford, Mazda, Volvo

KL-0312-2 (Code 1755226)

Puller for Chain Slider Bolts,
Mercedes/BMW

Applicable to chain slider bolts on Mercedes and BMW; the kit includes puller bolts and adaptor disc.

Alternative tool: W 115 589 00 33 00, W 116 589 20 33 00

This short version is required for repairs where the radiator has not to be removed from the vehicle.

Recommended Accessory:

7 R 24 Combination ratchet spanner 24mm (waf)

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, M6x30 | 1 |
| KL-0312-0011 | Puller Bolt, M8x30 | 1 |
| KL-0312-0012 | Puller Bolt, M8x60 | 1 |
| KL-0312-0013 | Adaptor Disc | 1 |

5 pcs.



KL-0380-7524 (Code 3076962)

Bit Socket, T100

Applicable to Mercedes-Benz engines: M133, M157, M176, M177, M178, M256, M264, M270, M271.8, M274, M276 and M278.

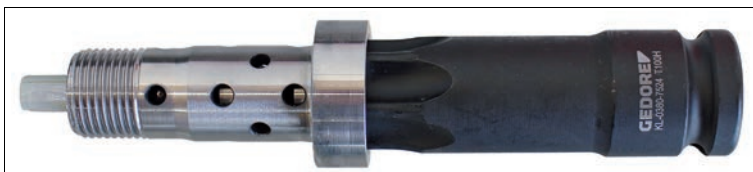
The T100 bit socket with security hole is needed for the removal and installation of the camshaft adjuster control valve.

Recommended Accessory:

1993 U-20 Reversible Ratchet 1/2"

Technical Data:

| | |
|-----------------|------|
| Waf size Torx®: | T100 |
| Length: | 77mm |
| Drive: | 1/2" |
| Bore Ø: | 11mm |



Note: KL-1280-701 Locking Tool Set 1.5 and 2.8 see Renault

KL-0680-262 A (Code 2639386)

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)

Alternative tool: 21-235, 303-676, 303-676 A, 3676, 49 B015 101, 49 UN30 3676

The tensioner tool **KL-0680-262 A** is required to pretension the tensioner when removing/installing the auxiliary belt.

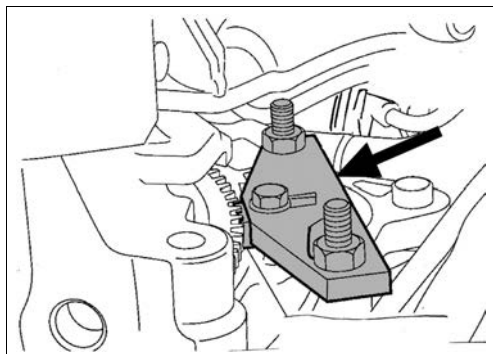
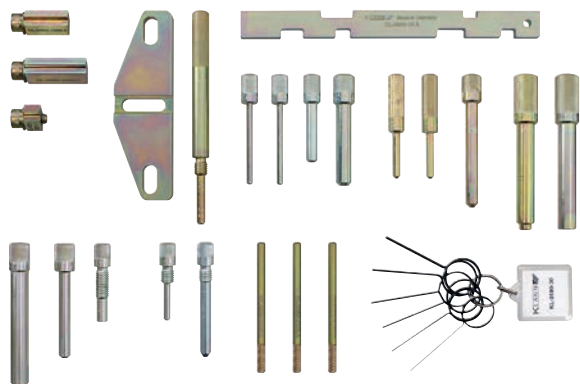
Recommended Accessory:

1993 U-20 Reversible Ratchet 1/2"





29 pcs.



(Engine code: 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, AOA, AOB, AOC, AOD, 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, DV6DTE, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, E5FA, E5FC, E5SA, E5SB, EDDBA/C, EDDB, EDBD, EDDC, EDDC, EDDC, EDDC, 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, FIF, 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, IQDA/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, RFX, 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, T1BB, T1BC, T1DA, T1DB, TBBA, TBBB, TBWA, TBWB, TNBA, TXBA, TXDA, TXDA/B, TXDB, TXWA, TYBA, TYDA, TYWA, TZJA, UFBA, UFDA, UFDB, UFWA, UKBA, UKDA, UKDB, UKWA, Y6, YF, ZVSA)

KL-0680-28 K

(Code 2248794)

Locking Tool Set, Ford

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.

Alternative tool: 21-168, 21-168 A, 303-393, 303-393 A, 303-393-01, 303-393-02, 995-208, 21-104, 303-193, 303-376, 49JE01 050, 21-123, 303-235, 23-029, 310-033, 23-020, 310-019, 23-019, 310-018, 49 JE01 063, 21-162, 21-162 B, 303-367, 303-376, 303-376 B, 303-465, 49 JE01 054, 49 UN30 3376, JE01 054, 21-163, 303-574, 303-620, 49 N010 101, 21-210, 303-507, 49 JE01 061, JE01 061, 21-259, 303-748, 49 JE02 024, 49 JE02 061, 21-234, 303-675, 21-251, 303-681, 303-681-01, 303-698, 21-260, 21-262, 21-263, 303-734, 49 JE02 020, 303-732, 49 JE02 018, 303-735, 49 JE02 021

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 0.8 mm, Ø 1.2 mm, Ø 1.4 mm, Ø 1.5 mm, Ø 1.7 mm, Ø 1.9 mm, Ø 2.4mm, Ø 2.6mm. |
| KL-0680-10 | Locking Pin for Crankshaft, Ø 6mm | 1.8 D / TD / Tddi / TDCi Diesel engines Engine code: BHDA/B, BHPA, C9DA/B/C, F9DA/B, HCPA, KKDA, RFA, RFX, RFL, RFN, RTC, RTJ, RTK. |
| KL-0680-1058 A | Locking Tool for Flywheel, with Adaptor, 1.6, 1.8 Diesel | 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, RFX, 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, RFX, RFL, RFN, RTB, 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, RFX, 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, DHD, 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, HXDA, 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 B | Locking Pin for Camshaft, Ø 8mm | 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 | |

4.6 - Valve Train - Ford, Mazda, Volvo

KL-0680-103 A (Code 2663279)
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.

Alternative tool: 21-104, 303-193, 303-376, 49 JE01 050, 21-163, 303-574, 303-620, 49 N010 101, 21-210, 303-507, 49 JE01 061, JE01 061, 21-259, 303-748, 49 JE02 024, 49 JE02 061, JE02 061

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 |

4 pcs.



KL-0680-25 A (Code 2446529)
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)

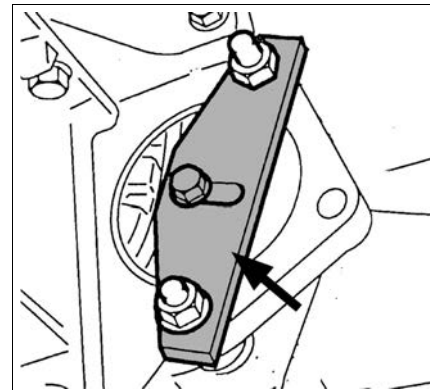
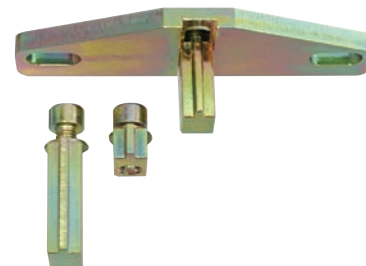
Alternative tool: 303-393-01, 303-393-02, 21-168, 21-168 A, 303-393, 303-393 A, 303-393 A/02

This tool is designed to counter-hold the flywheel while loosening/tightening the crankshaft pulley fixing bolts. 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 |

4 pcs.



KL-0780-30 (Code 2802120)
Counter-Holding Tool, Crankshaft

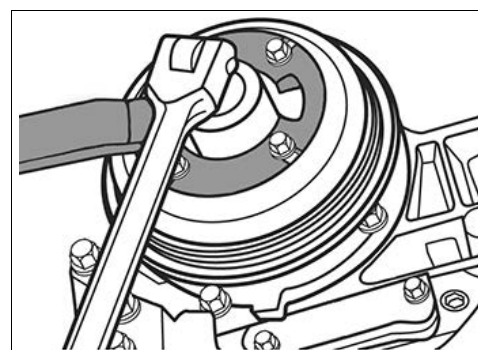
Applicable to Ford 2.5 and Volvo 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5, 2.8 and 2.9 litre 4- and 5-cylinder petrol engines, and 2.0 and 2.4 litre 5-cylinder Diesel engines. Fitted to: Ford Focus, Galaxy, Kuga, Mondeo, S-MAX and Volvo C30, C70, S40, S60, S70, S80, V40, V50, V70, XC70, XC90.

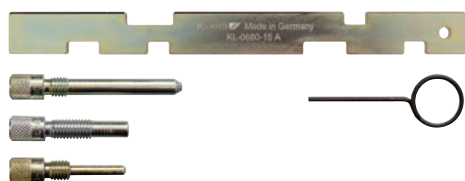
(Engine codes: Ford HUBA, HUWA, HYDA, HYDB, JZDA, LCBD; Volvo B4164S, B4184S, B4194T, B4204S, B4204T, B5204T3, B5204T4, B5204T5, B5234FS, B5234T3, B5234T7, B5234T8, B5234T9, B5244S, B5244S2, B5244S4, B5244S5, B5244S7, B5244SG, B5244SG2, B5244T, B5244T2, B5244T3, B5244T4, B5244T5, B5244T7, B5254FS, B5254T, 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)

Alternative tool: 303-1179, 999-5433, 999-7261

This tool is designed to be used for counter-holding the vibration damper while loosening and tightening the crankshaft central screw.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"





5 pcs.



KL-0680-27 A

(Code 2479435)

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, ESFA, ESFC, ESSA, ESSB, EDDB, EDCC, 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)

Alternative tool: 21-162 B, 21-162 B, 303-367, 303-376, 303-376 B, 303-465, 49 JE01 054, 49 UN30 3376, JE01 054, 21-163, 303-574, 303-620, 49 N010 101, 21-210, 303-507, 49 JE01 061, JE01 061, 21-259, 303-748, 49 JE02 024, 49 JE02 061, JE02 061

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 |



9 pcs.



KL-0680-24 KB

(Code 2897997)

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, ESFA, ESFC, ESSA, ESSB, EDDB, EDCC, 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, JQDA/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)

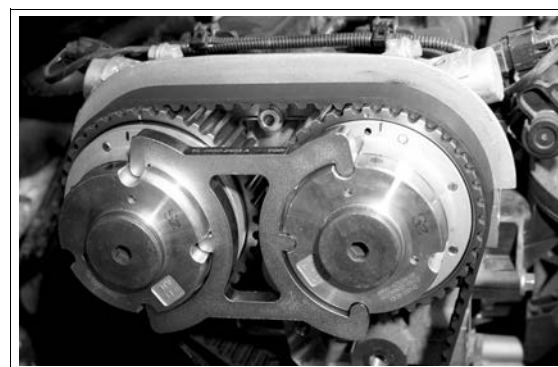
Alternative tool: 303-748, 49 JE02 061, 999-7406, 999-7201, 21-259, 303-1054, 303-1097, 999-7429, 303-393-02, 303-393, 21-168, 303-367, 303-465, 303-376, 303-376 B, 49 JE01 054, 999-7151, 303-507, JE01 061, 303-620, 303-574, 49 N010 101, 303-1550, 999-7431

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 |



Note: KL-0482-45 KA Locking Tool 1.3; KL-1381-30 Tensioner Tool 1.4 and 1.6; KL-0680-220 B Set of Locking Pins 1.4 and 1.6; KL-1380-26 KC Locking Tool 1.4, 1.6, 2.0 and 2.2; KL-1682-25 KA Locking Tool 1.2 8V see Fiat, PSA

4.6 - Valve Train - Opel/Vauxhall

KL-0482-43 KA (Code 2240580)
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)

Alternative tool: 09912-38310, KM-952, 09919-08310, EN-49978, KM-954, 09919-58320, KM-955-1, KM-955-10, KM-953, 09919-58310

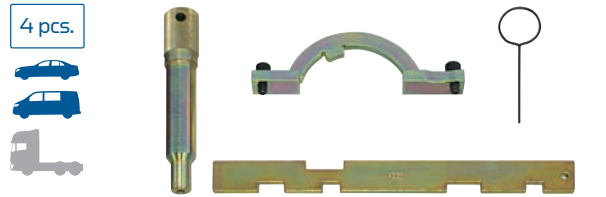
Designed for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as for locking the timing chain tensioner. An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0482-43 KA Locking Tool Set, Opel/Vauxhall 1.0 12V, 1.2 16V, 1.4 16V

| 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 |

4 pcs.



KL-0482-751 A (Code 3285243)
Locking Tool, Opel/Vauxhall 1.0

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)

Alternative tool: EN-49977, EN-49977-100, EN-49977-200, EN-49978, KM-952, KM-953-A, KM-955-1

Designed for the locking/positioning of camshafts, crankshaft, and timing chain tensioner. The kit also includes a tool to lock the cam phase sensor disc. An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0482-751 A Locking Tool Set, Opel/Vauxhall 1.0

| Part No. | Description | Qty |
|----------------|----------------------------|-----|
| KL-0482-7510 A | 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 |

8 pcs.



KL-0482-30 (Code 1815237)
Locking Tool Set,
Opel/Vauxhall 1.4, 1.6, 1.8, 2.0, 2.2

Suitable for the 1.4 16V (X14XE, Z14XE), 1.6 16V (C16XE, X16XE, X16XEL, Y16XE, Z16XE, Z16YNG), 1.8 16V (X18XE, Z18XE, Z18XEL), 2.0 16V (X20XE, X20XER, Z20LEH, Z20LEL, Z20LER, Z20LET) and 2.2 16V (X22SE, Y22SE, Y22XE, Z22XE) Opel/Vauxhall TwinCam petrol engines.

Alternative tool: KM-853, KM-852

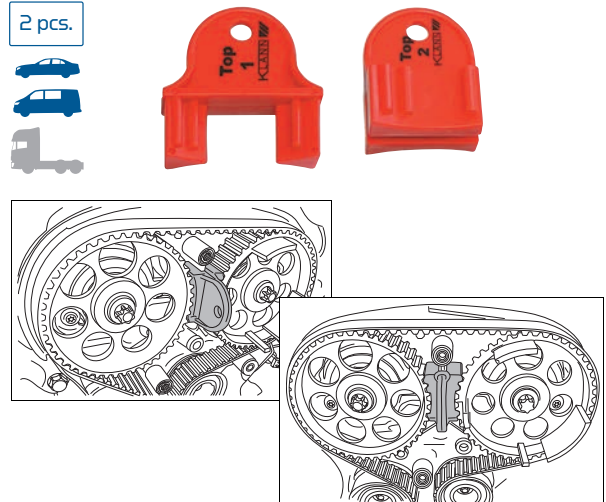
This tool set is designed to lock two camshaft sprockets to one another, so as to prevent the camshaft from turning while changing the timing belt.

Scope of Delivery:

KL-0482-30 Locking Tool Set, Opel/Vauxhall 1.4, 1.6, 1.8, 2.0, 2.2

| 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 |

2 pcs.





13 pcs.



KL-0482-33 KA

(Code 2542382)

Locking Tool Set, Opel/Vauxhall 1.4, 1.6, 1.8, 2.0 and 2.2

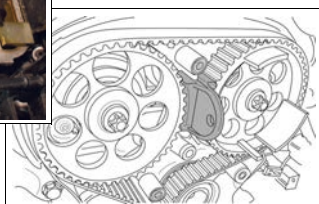
Applicable to the Opel/Vauxhall TwinCam (DOHC) petrol engines: 1.4 16V (G14D, X14XE, Z14XE), 1.6 16V (A16LEL, A16LER, A16LET, A16XER, A16XNT, LDE/A16XER, LDE/F16D4, LED, LGE/A16XNT, LLU/A16LET, LXV/F16D4, Y16XE, Z16LEL, Z16LER, Z16LET, Z16YNG, Z16XE, Z16XE1, Z16XEP, Z16XER, Z16XNT, 192B3.000/Z16XEP), 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.

Alternative tool: KM-6333, KM-911, KM-853, KM-852, KM-6340, KM-6625, EN 6625, KM-6628-A, KM-6130, KM-6349, EN 6349, KM-6077, KM-6148

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

| 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 A | Setting Gauge for Camshafts | 1 |
| KL-0482-3390 | Plastic Storage Case | 1 |



KL-0482-442 A

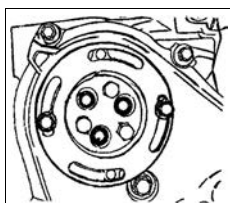
(Code 2479249)

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.

Alternative tool: 2.000.001.200, J-43651, KM-J-43651

When removing/installing the water pump, it is necessary to lock the water pump sprocket by means of tool **KL-0482-442 A**.



3 pcs.



KL-0184-041

(Code 2816326)

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).

Alternative tool: 2.000.001.000, 2.192.261.000, 2.192.361.000, EN-38122-A, EN-47981, J-38122-A, KM-930, KM-956-1, KM-977-1

This tool is designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

Technical Data:

| | |
|--|-------|
| Length of assembled tool: | 694mm |
| Length of extension tube with protective handle: | 403mm |
| Length of base tool: | 341mm |

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 |

4.6 - Valve Train - Opel/Vauxhall / Fiat, PSA

KL-0483-11 [Code 2525828]

Counter-Holding Tool, 41mm waf,
Opel/Vauxhall/GM

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)

Alternative tool: J-42492, KM-421-A, KM-421-B, KM-6283

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Advantages:

- Ensures the viscous clutch is securely counter-held.
- Prevents damage to the viscous clutch.
- High-quality tool due to a special manufacturing process.



Technical Data:

| | |
|-------------|------|
| Size (waf): | 41mm |
| Drive: | 1/2" |
| Length: | 90mm |
| Weight: | 110g |



Note:

KL-1380-753 KB Locking Tool 1.0 and 1.2; KL-0482-46 KB Locking Tool 1.6, 1.9, 2.0 and 2.4 see Fiat, PSA
KL-1280-701 Locking Tool 1.5 and 2.8; KL-1280-27 K Locking Tool 2.0 and 2.3 see Renault

KL-0482-45 KA [Code 2439808]

Locking Tool Set

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))

Alternative tool: 0104-A, 09917-68610, 1.860.985.000, 1.871.000.900, 303-1472, EN-46781, 1.870.896.900, 0104-C, 09912-38300, 09912-46310, EN-46785, 1.870.900.300, 303-1468, 09919-58320, 303-1054, KM-955-1, KM-955-10

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

| 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-1381-30 [Code 2837390]

Tensioner Tool with Locking 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; Peugeot Partner III, 206, 207, 207 CC, 308, 308 CC, 508, 3008, 5008; Ford Tourneo Connect. (Engine codes: DV4, DV6)

Facilitates the tensioning and locking of auxiliary belt tensioners (V-ribbed belt) - even in limited space conditions. An indispensable tool when removing/installing V-ribbed belts.

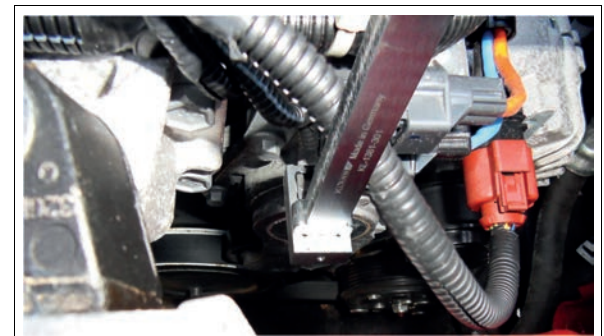
Recommended Accessory: KL-0183-21 Belt Mounting Tool

Technical Data:

| | |
|--------------------------|-------|
| Length of tension lever: | 465mm |
| Ø of retaining pin: | 4.2mm |

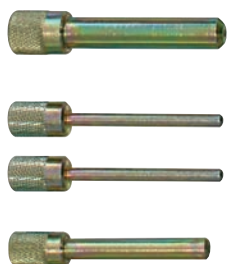
Scope of Delivery: KL-1381-30 Tensioner Tool with Locking Pin

| Part No. | Description | Qty |
|--------------|-------------------------------|-----|
| KL-1381-3021 | Locking Pin (angled), Ø 4.2mm | 1 |
| KL-1381-301 | Tension Lever with Base Body | 1 |



4. Engine Maintenance/Repairs

4.6 - Valve Train - Fiat, PSA



4 pcs.



KL-0680-220 B

(Code 2296063)

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.

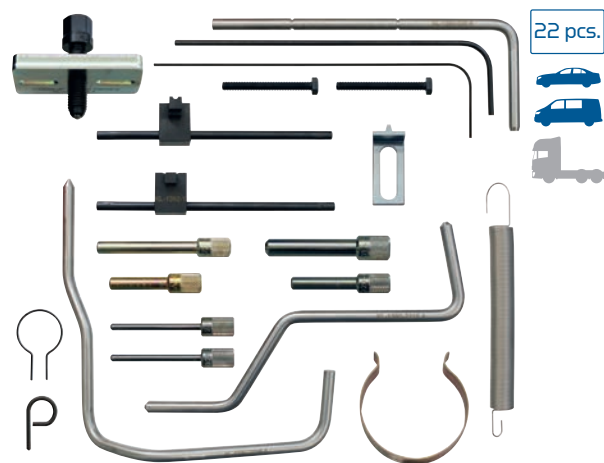
(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTEd, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, 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)

Alternative tool: 0194-C, 21-260, 21-262, 21-263, 303-734, 49 JE02 020, 999-7169, 2.000.022.500, 0194-A, 2.000.023.000, 2.000.023.100, 21-260, 303-732, 49 JE02 018, 999-7233, 0194-B, 2.000.023.200, 21-263, 303-735, 49 JE02 021, 999-7122

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 B | Locking Pin, Ø 8mm | 1 |



22 pcs.



KL-1380-26 KC

(Code 2916371)

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.

Alternative tool: 0188-Y, 0153N, 1.860.863.000, 1.870.827.000, 7104-TJ, 9767.34, 0188-D, 7017-TR, 0288-D, 0188-M, 9766.98, 0178-A, 0132-AJ1, 5711-TA, 7014-TN, 2.000.023.200, 0153-AL, 0188-F, 0134-AF, 9044-T, 0188-X

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 B | 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, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6C, DV6D, DV6DTEd, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, DW10ATED, DW10ATED/L3, DW10ATED4, DW10ATED4/L4, DW10ATED4/L44H, DW10BTED, DW10BTED/L3, DW10BTED4, DW10C, DW10CTED4, DW10CTED4, DW10JATED4, DW10UTD, DW10UTED4, DW12ATED, DW12ATED/L4, DW12BTED4, DW12CTED4, DW12MATED4, 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, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHY, RHZ, T1BA/B/C, TZJA, Y6)

4.6 - Valve Train - Fiat, PSA

KL-1682-44 (Code 3132722)

Locking Tool Set, High-Pressure Pump Sprocket

Applicable to: Fiat 1.6 and 2.0 JTD Common Rail Diesel engines.
Fitted to: Fiat Freemont, Ducato, Doblo and Doblo Cargo etc.
Engine codes: 940A5.000, 939B5.000, 250A1.000, 263A4.000, 263A5.000

Alternative tool: 2.000.026.900

For locking the high-pressure pump. For pressing/centring the injection pump sprocket onto the injection pump shaft. In conjunction with an appropriate puller, also suitable for removing the injection pump sprocket. Indispensable tools when replacing a timing belt and/or high-pressure pump, or when performing an engine repair.



Scope of Delivery:
KL-1682-44 Locking Tool Set, High-Pressure Pump Sprocket

| Part No. | Description | Qty |
|--------------|----------------------------|-----|
| KL-1682-4401 | Fixing Nut, M14x1.5 | 1 |
| KL-1682-4402 | Special Screw, M6 | 1 |
| KL-0055-0012 | Cheese Head Screw, M6x25mm | 1 |
| KL-1682-4403 | Hex Screw, M6x40mm | 2 |
| KL-0008-0013 | Washer, Ø6mm | 2 |

KL-0482-46 KB (Code 2898985)

Locking Tool Set

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)

Alternative tool: EN-46788, 32 025 009, 2.192.543.000, 2.000.003.000, 1.860.905.000, 1.860.905.010, 09912-37910, EN-46789, 32 025 008, 1.870.986.900, 1.860.863.000, 09917-68620, KM-6349, KM-6130, 87 92 335, 1.820.630.000, 1.860.898.000

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

| 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, Ø4mm | 1 |
| KL-1682-131 A | Flywheel Holding Tool | 1 |
| KL-1682-4290 A | Plastic Storage Case | 1 |

KL-1682-26 KA (Code 2900254)

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.

(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, F1CE3481N/SOFIM, F30DTE)

Alternative tool: 0194-C, 99395214, KM-6031, Mot.1054, 1.870.765.001, 1.860.617.000, 99360608, Mot. 910, 1.860.638.000, 0191-H, 99360614, 0191-B, 0191-2B, 0192-B, 2.000.018.200, 99360615, 0192-A, 0191-A, 0191-2A, 4533-TAD, 1.870.900.100, 0189-K, 0188-K, 0187-J, 0153-AK, 0132-AK

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 |



KL-1380-231 A [Code 2479737]

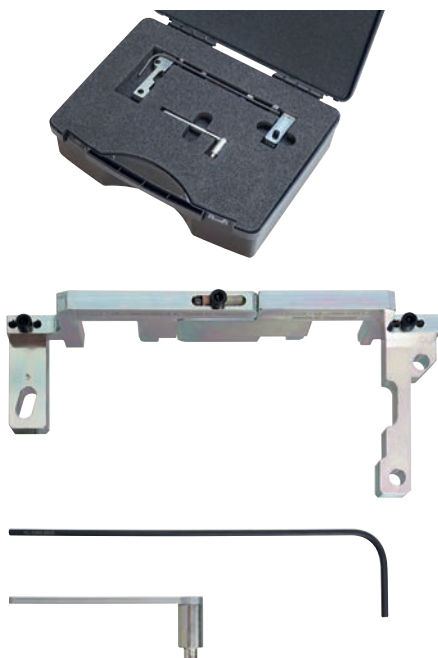
Locking Tool for Flywheel, Citroën/Peugeot

(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)

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.

Alternative tool: 0134-AF, 0134-Q, 0153-A, 0153-AF, 0188-F, 7044-T, 9004-T, 9044-T, 999-7120

Designed to lock the flywheel.



KL-1380-753 KB [Code 3292258]

Locking Tool Set, PSA

Applicable to Citroën, Peugeot, Opel/Vauxhall 1.0 and 1.2 litre (3-cylinder) petrol engines as fitted to:

Citroën C1 II, C3 III, C4 Cactus, C4II, DS4, DS3, C-Elysee; Peugeot 108, 208, 301, 308, 308 II, 2008 and Opel/Vauxhall Crossland X, Grandland X.

Engine codes: EB0 [ZMZ], EB2, EB2 [HMT], EB2 [HMW], EB2 [HMZ], EB2D [HMT], EB2DT, EB2DT [HNY], EB2DTS [HNY], EB2F [HMZ], EBF2 [HMZ]

Alternative tool: Peugeot + Citroën 0109-2, 0109-2A, 0109-2B, 0188-Q1, 0197-N; Opel EN-52127-1, EN-52127-2

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 KB Locking Tool Set, PSA

| Part No. | Description | Qty |
|----------------|----------------------------|-----|
| KL-1380-7531 A | Locking Plate for Camshaft | 1 |
| KL-1380-7532 | Locking Pin, Ø 14/7.7mm | 1 |
| KL-1380-2603 | Locking Pin, Ø 4mm, angled | 1 |
| KL-1380-7539 | Plastic Storage Case | 1 |



KL-1682-25 KA [Code 2705931]

Locking Tool Set, Fiat 1.2, 1.4 8V

Applicable to Fiat/Lancia 1.2 and 1.4 as well as to Ford 1.2 8-valve petrol engines as found in Fiat New 500, Idea, Grande Punto, Linea, Doblo, Panda, Qubo; Lancia Musa, Ypsilon; Ford Ka.

(Engine codes: 169A4.000, 199A4.000, 199A7.000, 350A1.000, FP4)

Alternative tool: 2.000.004.300, 2.000.004.200, 2.191.964.200, 2.000.004.400, 2.191.964.400, 1.860.987.000, 2.191.964.500, 2.000.004.500

This tool set is used for the locking/positioning of camshaft and crankshaft as well as for adjusting the timing belt tensioner and centring the cam position sensor cover. 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 Cover | 1 |
| KL-1682-252 A | Locking 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 | Plastic Storage Case | 1 |

Note:

KL-0482-33 KA Locking Tool 1.4, 1.6, 1.8, 2.0 and 2.2; KL-0184-041 Reaction Wrench 2.2 16V see Opel

KL-0680-28 K Locking Tool 1.4 and 1.6 HDI see Ford

KL-0580-83 KA Locking Tool 1.4 and 1.6 see BMW

4.6 - Valve Train - Renault, Dacia, Nissan

KL-1280-23 KB (Code 2224100)

Locking Tool Set,
Renault 1.4, 1.6, 1.8, 2.0 16V and 1.5 dCi

Applicable to Renault 1.4, 1.6, 1.8 and 2.0 16V petrol engines as well as 1.5 dCi (K9K) Diesel engines. Fitted to: Renault Clio, Clio Sport, Modus, Megane / Scenic, Kangoo, Espace, Laguna; Nissan Micra, Almera, Kubistar, Cube, Juke, Note, NV200, Qashqai, Tiida; Dacia Duster, Logan; Opel/Vauxhall Vivaro; Suzuki Jimny etc. (Engine codes: K4J, K4M, F4P, F4Rt, F4R)

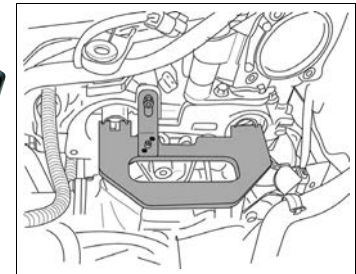
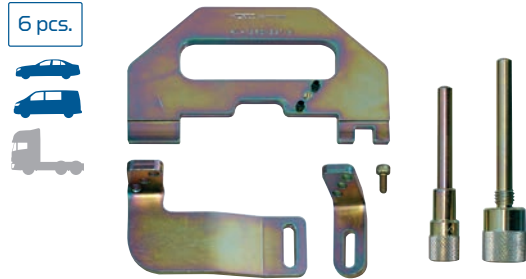
Alternative tool: KM-6233, KM-6031, KM-6130, Mot.1496, Mot.1750, Mot.1054, Mot.1430, Mot.861, Mot.1489

For the locking of camshafts and crankshaft. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-23 KB Locking Tool Set, Renault

| 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 pcs.



KL-1280-701 (Code 2898160)

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.

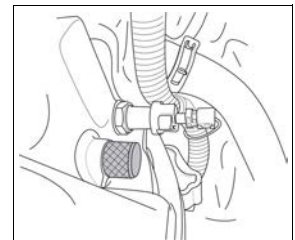
Alternative tool: KV113B0110, 09919-58120, Mot.1430, Mot.1054, KV113B0130, Mot.1489, 09919-58110, Mot.910, Mot.910/1

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 |

3 pcs.



(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 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-1280-27 K (Code 2454254)

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)

Alternative tool: Mot.1769, EN-48332, EN-6349, KM-6130, KM-6349, Mot.1766, EN-48330, Mot.1431

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 |

6 pcs.





4 pcs.



KL-1280-281 B

(Code 3135101)

Counter-Holding Plate for Camshaft Sprockets

Applicable to Renault 1.8, 2.0, 2.0 16V and 2.0 Turbo petrol engines.

Found in: Renault Clio II, Espace III / IV, Laguna I / II / III, Megane I / II / CC, Scenic I, Grand Scenic, Vel Satis, Aventime; Nissan Primastar; Opel Vivaro A. etc.

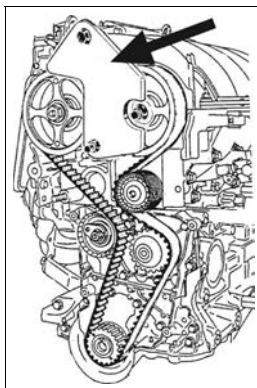
(Engine codes: F4P 720, F4P 722, F4P 770/771, F4P 772, F4P 773, F4P 774, F4P 775, F4R 712, F4R 713, F4R 714, F4R 715, F4R 720/722, F4R 730, F4R 732, F4R 740, F4R 740/741, F4R 741, F4R 744, F4R 746, F4R 770/771, F4R 790, F4R 791, F4R 792, F4R 820, F4R 830, F4R 832, F4Rt 720/722, F4Rt 762/763, F4Rt 764/765, 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, F4P, F4Rt, F4R)

Designed for the locking/positioning of camshafts. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-281 B Counter-Holding Plate for Camshaft Sprockets

| Part No. | Description | Qty |
|----------------|-----------------------|-----|
| KL-1280-2810 B | Counter-Holding Plate | 1 |
| KL-1280-2811 | Locking Cog Wheel | 2 |
| KL-1280-2812 | Shoulder Nut M10 | 1 |

Alternative tool: Mot. 1509, Mot.1801, Mot. 1509-01



KL-1280-236 A

(Code 2640309)

Counter-Holding 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.

Alternative tool: Mot.1490-01

This tool is used to lock/counter-hold the camshaft sprockets while loosening/tightening the camshaft central screw, e.g. when replacing a timing belt or during an engine repair.



2 pcs.



KL-1280-237

(Code 2453509)

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, Traffic, Twingo, Vel Satis, Kangoo und Espace; Dacia Duster and Logan; Nissan Primastar; Opel/Vauxhall Vivaro. (Engine codes: K4J, K4M, F4P, F4R; F4Rt, F5R)

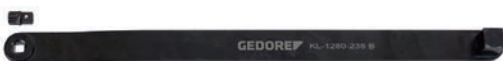
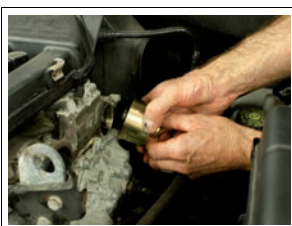
Alternative tool: KM-6231, KM-6232, Mot.1487, Mot.1488

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.

Recommended Accessory: 248 ST-30 Plastic hammer

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 |



2 pcs.



KL-1280-235 B

(Code 2693232)

Adjustment Tool 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.

Alternativ Werkzeug: 999-7109, Mot.1368

4.6 - Valve Train



KL-0146-20

(Code 2841576)

Engine Support Device

Universally suitable for supporting passenger car engines.

Designed to properly and safely support passenger car engines during maintenance work. Required when changing the timing belt, water pump or engine mount for example.

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 (100mm) 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 fixing bolts 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 slipping or dropping.

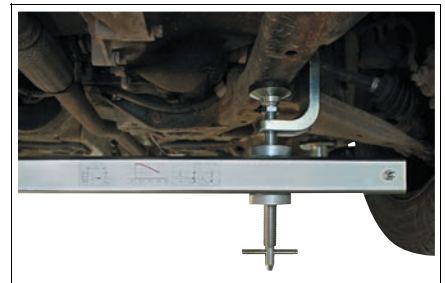
The ingenious **KL-0146-20** engine support device from GEDORE Automotive offers you a maximum of safety and functionality combined with a wide range of application possibilities - without the need for additional accessories such as vehicle-specific adaptors etc.

Recommended Accessory: KL-0146-21 Retaining Device

Scope of Delivery:

KL-0146-20 Engine Support Device

| Part No. | Description | Qty |
|---------------|------------------------|-----|
| KL-0146-201 | Base Frame | 1 |
| KL-0146-202 A | Clamping Hook Assembly | 2 |
| KL-0146-203 | Support Plate Assembly | 1 |



Technical Data:

| | |
|---------------------------------------|--------------|
| Max. load capacity: | 100-300kg |
| Overall length: | 1,100mm |
| Clamping hook width: | 50mm |
| Clamping range: | approx. 70mm |
| Height offset between clamping hooks: | approx. 90mm |
| Support plate height adjustment: | 120mm |
| Weight: | 16.5kg |

KL-0146-21

(Code 3020118)

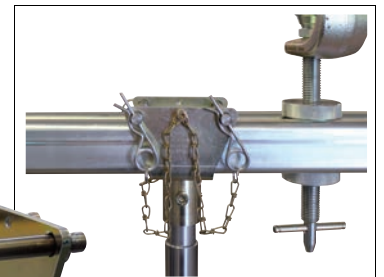
Retaining Device

The **KL-0146-21** retaining device enables the **KL-0146-20** engine support device to be safely and securely held in an appropriate transmission jack (with piston rod end diameter of 30mm).

This will ease the installation/removal of the heavy engine support device to/from the vehicle.

Recommended Accessory:

KL-0040-2571 Adaptor Sleeve, Ø 25mm





2 pcs.



KL-0183-70 K

(Code 2123541)

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 |

Alternative tool:

11 0 330, 0194/3-A, 11 0 331, 0194/3-D, 11 0 332, EN-50098



4 pcs.



KL-0183-71 K

(Code 2838214)

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 |

Alternative tool:

0194/3-A, 11 0 331, 0194/3-D, 11 0 332, EN-50098



2 pcs.



KL-0183-72 K

(Code 3083888)

Tool Set for Auxiliary Stretch Belts

Universally suitable for use on auxiliary stretch belts as found in: 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 required for the quick and professional removal and installation of auxiliary stretch belts.

Without this tool set, it is virtually impossible to remove and install these stretch belts in a professional way since, here, the accessory belt drive system operates without any belt tensioner and, as a result, releasing the belt tension is not possible.

Scope of Delivery: KL-0183-72 K Tool Set for Auxiliary Stretch Belts

| Part No. | Description | Qty |
|--------------|------------------------|-----|
| KL-0183-702 | Belt Installation Tool | 1 |
| KL-0183-7201 | Webbing | 1 |
| KL-0183-7290 | Plastic Storage Case | 1 |

4.7 - Ancillary Components

KL-0284-185 E (Code 3293289)

Alternator Socket Spanner Set, in Foam Insert

Fits universally with passenger cars and vans, for example Audi, Alfa Romeo, BMW, Citroën, Dacia, Ford, Fiat, Mercedes, Mini, Opel, Peugeot, Porsche, Renault, Seat, Škoda, Toyota, Volvo, VW etc. Fits particularly with alternators by Hella, Bosch, Lucas, Denso, Valeo, Mahle and many others.

Alternative tools: 999-5761, W 602 589 00 10 00, MP-1-309, T10474, T10474-1, U-40084

The alternator socket spanner set enables professional loosening, tightening, and simultaneous counter-holding of the freewheeling pulley on the alternator. Required because freewheeling alternators cannot be held against with the belt pulley from the outside for release.

The special screwdriver inserts and union nuts can be combined with each other as desired. This offers a universally suitable range for a large number of alternators.

Recommended Accessories:

- 1993 U-20 Reversible Ratchet 1/2",
- 19 20 Socket

Storage System:

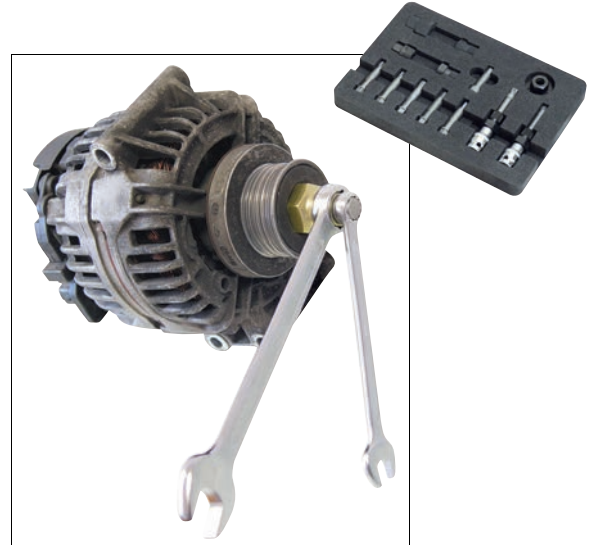
KL-4990-9272 Plastic Case

Scope of Delivery:

KL-0284-185 E Alternator Socket Spanner Set, in Foam Insert

| Part No. | Description | Qty |
|--------------|--|-----|
| KL-0284-40 | Combination spanner (TX50 / 31 teeth - 14mm dia.) | 1 |
| KL-0284-41 | Combination spanner (XZN10 / 31 teeth - 14mm dia.) | 1 |
| KL-0284-1902 | Union nut (33 teeth - 19.5mm dia.) | 1 |
| KL-0284-4202 | Union nut (32 teeth - 17mm dia.) | 1 |
| KL-0284-3901 | Union nut (Inner hexagon 17mm) | 1 |
| KL-0284-2702 | Union nut (Inner hexagon 28mm) | 1 |
| KL-0284-3902 | Union nut (3 journals) | 1 |
| KL-0284-2801 | Screwdriver insert (XZN10) | 1 |
| KL-0284-2901 | Screwdriver insert (TX50) | 1 |
| KL-0284-2601 | Screwdriver insert (Outer hexagon 10mm) | 1 |
| KL-0284-2811 | Screwdriver insert (Inner hexagon 6mm) | 1 |
| KL-0284-2821 | Screwdriver insert (Inner hexagon 8mm) | 1 |
| KL-0284-2831 | Screwdriver insert (Inner hexagon 10mm) | 1 |
| KL-0284-1859 | Foam insert | 1 |

13 pcs.



Technical Data:

| | |
|------------------------------|-----------|
| Drive (screwdriver bits*): | Size 12mm |
| * (only with KL-0284-2601): | Size 10mm |
| Drive (union nuts): | Size 21mm |
| Drive (combination spanner): | 1/2" |

KL-0183-2 (Code 2409577)

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 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 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

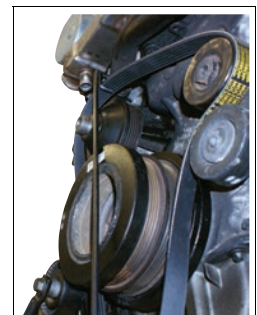
| Part No. | Description | Qty |
|-------------------|--|----------|
| KL-0183-21 | Belt Mounting Tool | 1 |
| KL-0183-20 | Special Socket Wrench with Socket Set | 1 |
| • KL-0183-2001 | Wrench, 580mm long, with 3/8" drive | 1 |
| • KL-0183-2002 | Extension, 230mm long mit 3/8" drive | 1 |
| • KL-0183-2013 | 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 |
| • KL-0183-2003 | Adaptor 3/8" to 1/2" | 1 |

8 pcs.



3/8"

1/2"





KL-0284-92

[Code 2669161]

Tension Pulley Spanner, Size (waf) 16mm

Universal application.

Particularly useful on VW-Audi 1.9 and 2.0 TDI engines.

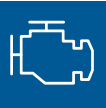
(Engine codes: ASZ, ATD, AXA, AXR, BLS, BLT, BMT, BPX, BUK, BXJ)

Alternative tool: T10241, T20126

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-0366-7

[Code 1755382]

Reaction Wrench

Suitable for use on Mercedes petrol and Diesel engines as found in Mercedes Vito / Viano (W639), Sprinter (W906, W907), C- and E-Class with engine codes: M111.979, M112, M113, M119.985, M271.951, M272.979, OM604, OM605, OM606, OM642.

Alternative tools: W 611 589 00 40 00, W 113 589 00 40 00, W 906 589 00 40 00

With 3 bore holes. In order 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 |
|---------|-------|



KL-0366-17

[Code 3245861]

Belt Tensioner Tool, Poly-V Belt

Applicable to Mercedes 1.5, 1.7 and 2.0-litre petrol engines with Stop-Start function.

Fitted to: Mercedes A-Class (W169) and B-Class (W245) etc.

Engine Codes: M 266.920 /.940 /.960 /.980

Alternative tool: W 266 589 00 31 00

For clamping/compressing/releasing the damper/hydraulic poly-V belt tensioner professionally. Indispensable tool when removing/installing the belt tensioner or when replacing the poly-V belt for example.

Using inappropriate tools risks damaging the very expensive damper and tensioner pulley as well as causing serious injuries due to parts becoming projectiles.

Important Note:

It is essential to tighten the bolt on the tool very slowly (**the tightening must take at least 20 seconds per turn**) until the damper spring is fully compressed. Failing to do so will result in damage to the damper/tensioner pulley.

Technical Data:

| | |
|---------|-------------------|
| Length: | 185mm |
| Drive: | 10mm (hex socket) |



4.8 - Oil System

KL-0122-191 (Code 2967413)
Oil Filter Socket (universal), Ø 60-80mm

Universally suitable for use on oil filters with Ø of 60-80mm as found in passenger cars.

Allows the user to loosen oil filters quickly and safely. Retaining jaws grip the filter without any risk of slipping. The ideal tool when space is at a premium.

Recommended Accessory:
1993 U-20 Reversible Ratchet 1/2"

Technical Data:

| | |
|-----------------|------------------|
| Clamping range: | Ø 60-80mm |
| Drive (square): | 1/2" or 21mm waf |



KL-0122-192 (Code 2967421)
Oil Filter Socket (universal), Ø 80-110mm

Universally suitable for use on oil filters with Ø of 80-110mm as found in passenger cars.

The socket allows you to loosen oil filters quickly and safely. Retaining jaws grip the filter without any risk of slipping. The ideal tool when space is at a premium.

Recommended Accessory:
1993 U-20 Reversible Ratchet, 1/2"

Technical Data:

| | |
|-----------------|------------------|
| Clamping range: | Ø 80-110mm |
| Drive (square): | 1/2" or 22mm waf |



KL-0122-193 (Code 2967448)
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.

The socket allows you to loosen oil filters and air dryer cartridges quickly and safely. The special design of the tool and of the retaining jaws ensures 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.

Recommended Accessory:
1993 U-20 Reversible Ratchet, 1/2"

Technical Data:

| | |
|------------------|------------------|
| Clamping range: | Ø 110-145mm |
| Retaining depth: | 65mm |
| Drive (square): | 1/2" or 24mm waf |



KL-0122-426 (Code 1794892)
Oil Filter Socket, Size 86mm waf,
16 flats (reinforced design)

Applicable to Volvo and BMW engines; as fitted to: Volvo S40 + V40 (2013-), S60 + V60 (2011-), XC60 (2008-), S70 + V70 + XC70 (2008-), S80 (2007-); BMW 320i (E90), 520i (E60)

Alternative tool: 11 9 240, 999-5679 C

This oil filter socket is needed to remove/install the oil filter cover when replacing the oil filter cartridge. Suitable for use on oil filters with size 86mm waf and 16 flats.

Recommended Accessory: 3093 U-20 Reversible Ratchet, 3/8"

Technical Data:

| | |
|--------|------|
| Drive: | 3/8" |
|--------|------|





KL-0122-319 (Code 1752812)

Oil Filter Key Ø 76mm 12 Ribs

Suitable for Dacia Logan, Sandero; Fiat Ducato, Scudo, Ulysee; Ford Galaxy (2.0 diesel), Mondeo (2.0 TDCi); Mercedes (all with Purflux filter LS 918); Renault Megane, Laguna Espace III, Trafic (1.9 diesel), Master (1.9 diesel); Peugeot 307; Honda Prelude (BA4 2.0 16V engine); Opel Vivaro etc.

Alternative tool: W 103 589 03 09 00

Intended for use on oil filters with Ø 76mm and 12 ribs.

Recommended Accessory:
3093 U-20 Reversible Ratchet, 3/8"

Technical Data:

| | |
|--------|--------|
| Size: | Ø 76mm |
| Ribs: | 12 |
| Drive: | 3/8" |



KL-0122-301 (Code 1752731)

Oil Filter Socket, Size (waf) 74mm, 14 flats

Applications: Audi, e.g. A1, A3 (TDI); BMW 3 Series (E36 with 4-cyl. engine); Citroën; Fiat; Ford; Lancia; Mazda; Mercedes, e.g. CDI engines, C- and E-Class (with 4- or 6-cyl. petrol engine); Mitsubishi; Nissan; Opel/Vauxhall; Peugeot; Porsche; Renault; Toyota; VW, e.g. Golf (IV TDI), up!, Scirocco III, Touran 1T1/1T2, etc.

Alternative tool: 11 7 330, 3417, T20050

For oil filters with size 74mm (waf) and 14 flats.

Recommended Accessory:
3093 U-20 Reversible Ratchet, 3/8"

Technical Data:

| | |
|--------|------|
| Size: | 74mm |
| Flats: | 14 |
| Drive: | 3/8" |



KL-0122-219 B (Code 3097633)

Oil Filter Socket, Aluminium, Ø 76mm, Plastic-coated, 12 Ribs

Suitable for use on oil filters with 76mm Ø and 12 ribs. Applications: VW-Audi, Mercedes, Seat, Škoda, Citroën, Peugeot, Renault, Ford, Nissan, Dacia und Suzuki etc. (e.g. Filter: Purflux LS 918, MANN W716/1) The ideal tool for Renault, Nissan, Dacia and Suzuki vehicles equipped with a K9K-engine as well as for Mercedes M102 and M103 6-cylinder petrol engines.

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. The problem with K9K engines is that the alternator is located very close to the oil filter. Thus, there is a risk of causing a short circuit with the alternator charging cable when using a conventional oil filter tool. The KL-0122-219 B oil filter socket was specifically developed for this type of engines. The socket features a non-conductive surface coating designed to prevent accidental short circuits and, as a result, to allow the oil filter to be loosened and tightened safely.

Recommended Accessory: 3093 U-20 Reversible Ratchet, 3/8"



Technical Data:

| | |
|----------|-------------------|
| Size: | Ø 76mm |
| Profile: | 12 Ribs |
| Drive: | 3/8" / 27mm (waf) |



KL-0122-609 (Code 2027429)

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 OM 642 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.

Recommended Accessory: 3093 U-20 Reversible Ratchet, 3/8"

Technical Data:

| | |
|--------|------|
| Size: | 84mm |
| Flats: | 14 |
| Drive: | 3/8" |



4.8 - Oil System

KL-0122-57 (Code 3245837)
Oil Filter Socket, Size (waf) 74.5mm

Applicable to Ford 1.5 and 1.6 EcoBoost petrol engines. Fitted to: Ford C-MAX II, Focus III, Galaxy III, Kuga II, Mondeo IV, Mondeo V, S-MAX II, Transit Connect II etc.

A special feature of this oil filter socket is its lateral drive allowing you to loosen and tighten hard-to-reach cartridge-style oil filters quickly and professionally.

Due to the limited space available in front of the cartridge oil filter, the loosening and tightening with the aid of conventional oil filter tools can be quite difficult, sometimes even impossible.

Recommended Accessory: 3093 U-20 Reversible Ratchet, 3/8"

Technical Data:

| | |
|--------|--------|
| Size: | 74.5mm |
| Flats: | 15 |
| Drive: | 3/8" |



KL-0122-53 (Code 2486059)
Filter Socket, Size (waf) 46mm

Suitable for Mercedes BlueTec® HGV engines. For example: Actros, Atego, Axor, Eonic.

This filter socket is designed to remove and install the filter cap. Indispensable tool when replacing the AdBlue®-Filter Cartridge.

Recommended Accessories: 3093 U-20 Reversible Ratchet 3/8"

Technical Data:

| | |
|-------------|------|
| Size (waf): | 46mm |
| Drive: | 3/8" |

BlueTec® = registered trademark of Daimler AG

AdBlue® = registered trademark of Verband der Automobilindustrie e.V (VDA)



KL-0122-59 A (Code 2955946)
Oil Filter Socket Wrench,
Size (waf) 27mm, PSA/Ford

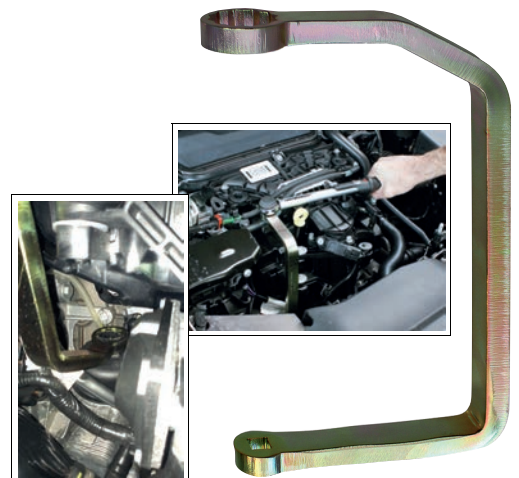
Suitable for use on the following TwinCam (DOHC) Diesel engines: PSA and Ford 2.0 Hdi and Duratorq TDCi (DW10C), as well as PSA, Ford and Jaguar 2.2 Hdi and Duratorq TDCi (DW12C). For example, fitted to Peugeot 308, 3008, 5008, 407, 407 Coupé, 508, RCZ; Citroën C4 Picasso, C5, C5 Mk2, C8, DS4, DS5; Ford 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.

Recommended Accessory: 3093 U-20 Reversible Ratchet, 3/8"

Technical Data:

| | |
|-----------------|-------|
| Size: | 27mm |
| Drive (square): | 3/8" |
| Length: | 234mm |



KL-0288-30 (Code 2929899)
Bit Socket for Oil Drain Plug, VW-Audi

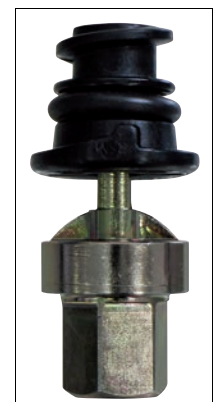
Suitable for use on the VW-Audi 1.2, 1.4, 1.8 and 2.0 TFSi, as well as the 1.6 and 2.0 TDI engines equipped with a plastic oil drain plug (M14x1.5x22mm) with special profile. Engines installed, for example, in Audi A1, A3, A4, A5, Q5 and VW Golf VII etc.

Alternative tool: T10549

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-0132-84

(Code 2281252)

Lambda Sensor Socket, 22mm (waf), hex

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.

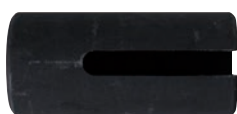
Alternative tool: EN-46577, KM-6129, KM-6179

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.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Technical Data:

| | |
|-------------|-------|
| Size (waf): | 22mm |
| Drive: | 1/2" |
| Length: | 110mm |



KL-0132-83

(Code 2396076)

Lambda Sensor Socket, hex, 22mm waf, 70mm long

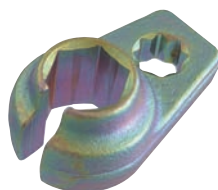
Universally suitable for use on Lambda sensors having a waf size of 22mm.

Essential tool for the professional removal and installation of Lambda sensors. The socket is specially cut out to allow the Lambda sensor cable to pass through without any risk of damage when removing/installing the Lambda sensor.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Technical Data:

| | |
|---------|---------------|
| Size: | 22mm waf, hex |
| Drive: | 1/2" |
| Length: | 70mm |



KL-0132-6

(Code 1753223)

Angle Socket Wrench, 22mm waf

Applications: VW-Audi, BMW, Mercedes, Ford, Opel/Vauxhall, Peugeot, Citroën, Renault, Seat, Škoda, Japanese cars, etc.

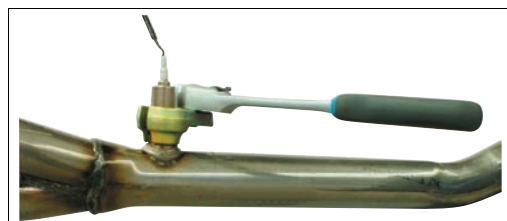
Alternative tool: J-39194-C

Facilitates the removal and installation of hard-to-reach Lambda sensors. Sturdy, forged design.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Technical Data:

| | |
|-------------|-------------------------|
| Size (waf): | 22mm |
| Drive: | 1/2", axially displaced |
| Length: | 110mm |



KL-0132-82 A

(Code 2480778)

Lambda Sensor Tool, Size (waf) 22mm

Universally suitable of hex and bi-hex Lambda sensors with waf size of 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 |

4.9 - Exhaust System

KL-0130-3 (Code 3254437)
Exhaust Hanger Removal Pliers

Universally suitable.

Particularly sturdy design. Allows for the quick, easy and damage-free separation of exhaust brackets from rubber hangers. Even very stiff or tight rubber hanger supports are no longer an issue.

Thanks to this tool, struggling with screwdrivers or assembly levers has now become a thing of the past.

Hand injuries as well as damage to the vehicle caused by improper removal methods can be prevented by using our **KL-0130-3** removal pliers.



Technical Data:

| | |
|---------|-------|
| Length: | 300mm |
|---------|-------|

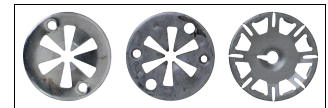
KL-0194-51 (Code 3137236)
Star Lock Washer Removal/Installation Tool

Suitable for use on star lock washers with diameter not greater than 32mm; as found in vehicles from: VW-Audi, SEAT, ŠKODA, BMW, Mercedes-Benz, Ford, Opel/Vauxhall, Fiat, Subaru, Suzuki, Toyota, Volvo, Peugeot, Citroën, Renault, Saab, Mitsubishi, Nissan, Honda, Hyundai, Daewoo, Jeep, Lexus, Mazda, Chevrolet, Chrysler.

The star lock washer tool allows for the quick and damage-free removal and installation of locking star washers. A very useful tool when dismantling/assembling underbody panelling and exhaust heat shields.

Technical Data:

| | |
|---------------------------------------|------------------|
| Drive: | 1/4" (hexagonal) |
| For star lock washers with max. Ø of: | 32mm |
| Length: | 64mm |



KL-0131-51 (Code 1753118)
Chain Pipe Cutter

Universal application.

Alternative tool: VAS 6254

This tool is used to cut exhaust pipes having 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.

Note: By attaching a second chain, the cutter can be used on pipes with larger diameters.



Technical Data:

| | |
|---------|--------|
| Length: | 250 mm |
|---------|--------|

KL-0131-5101 (Code 1753126)
Spare Chain

Technical Data:

| | |
|---------|-------|
| Length: | 270mm |
|---------|-------|



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 (Code 1621440)
Replacement Cutting Wheel



HIGH-QUALITY SPECIALIST TOOLS

Durable, safe and innovative.

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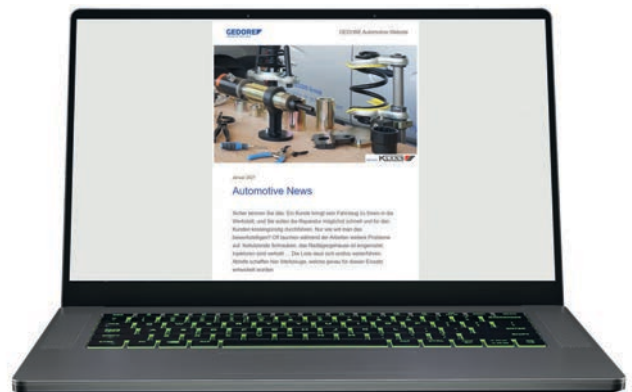


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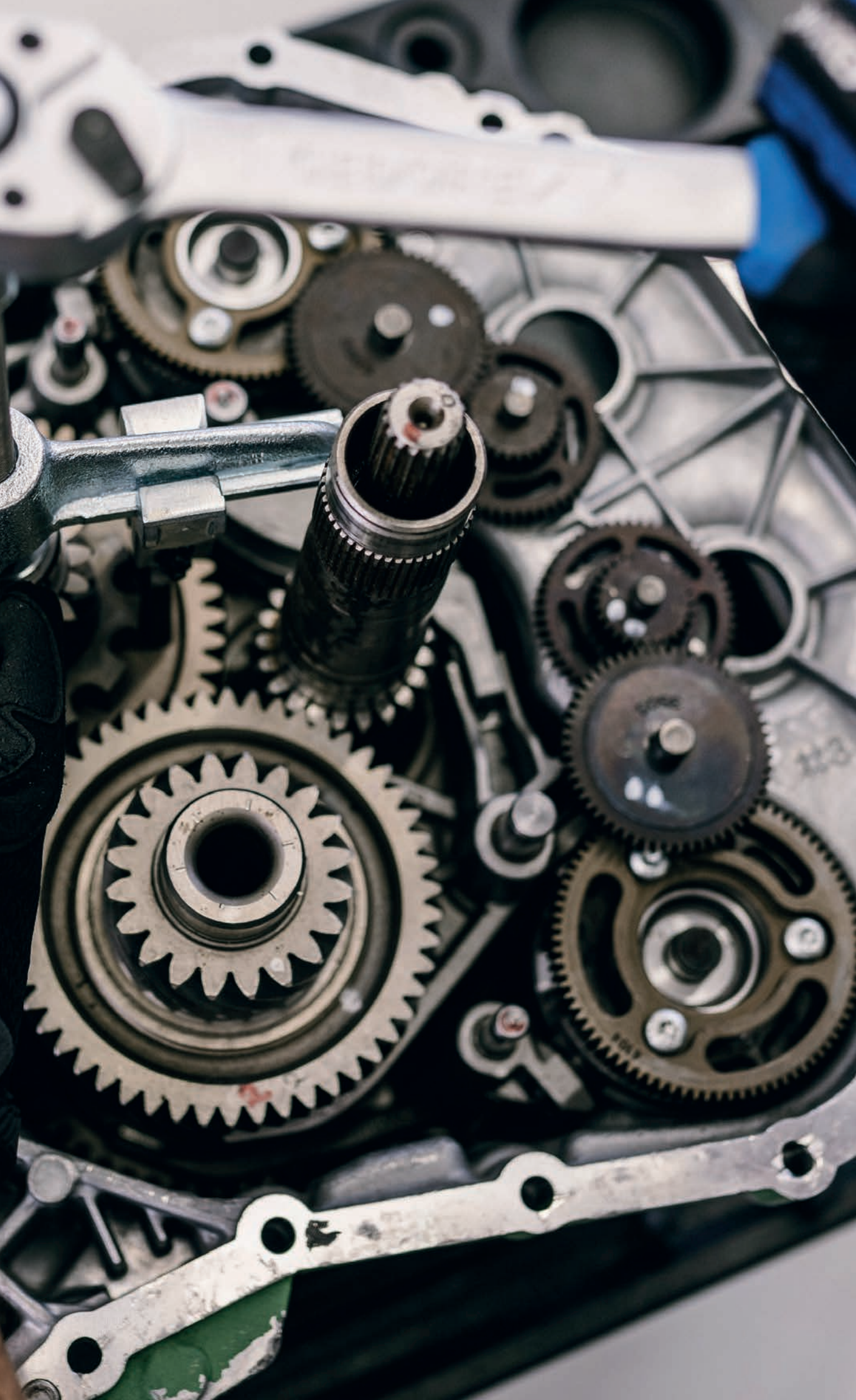
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5. Clutch and Gearbox Repairs





39 pcs.



KL-0500-45 KA (Code 2288508) (Patented) Clutch Tool Set (SAC), in a Plastic Storage Case

Fits universally for almost all SAC couplings with 3- and 4-hole pitch available on the market. For example, installed at VW-Audi, BMW, Mercedes, Volvo, Opel, Renault, etc.

Alternative tool: 1.871.003.100, LuK 400 0237 10

This SAC clutch tool kit is absolutely necessary for professional and damage-free removal and installation of SAC clutches (Self-Adjusting Clutch), and it also enables resetting of the SAC adjusting ring in the clutch pressure plate.

Damage-free removal and installation is almost impossible without a SAC clutch tool, as the coupling can be strained or damaged in the process. This inevitably leads to a malfunction or defect of the clutch, and it must be replaced.

The clutch centring tool included in the scope of delivery enables centring of clutch discs with a hub diameter of 15-28mm and a guide bearing or crankshaft hole diameter of 12-28mm. Vehicles without guide bearings in the crankshaft are also not a problem.

The two clamping / centring elements ensure precise centring in the clutch disc on the first clamping element, and precise entering in the guide bearing or crankshaft hole on the second clamping element. Even clutches with crankshaft hole diameter exceeding the clutch hub diameter can be centred cleanly and precisely.

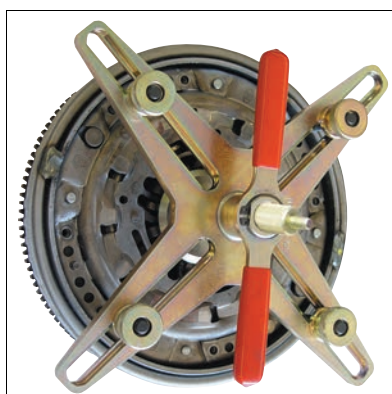
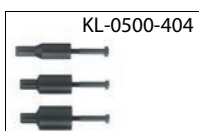
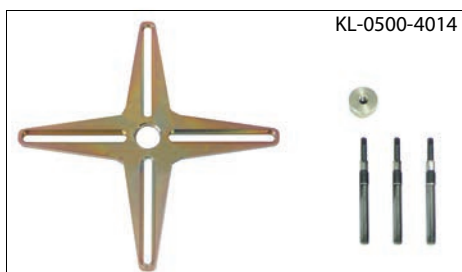
Advantages:

- Professional and damage-free disassembly and assembly of the coupling!
- Precise centring of the clutch disc on vehicles without pilot bearings!
- Centring of the clutch disc towards the pilot bearing or towards the pressure plate is possible!
- The clutch centring tool included in the scope of delivery enables centring of clutch discs with a hub diameter of 15-28mm and a guide bearing or crankshaft hole diameter of 12-28mm.
- Resetting the adjusting ring is possible with the special reset tool!

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-0500-401-1 | Clutch-Pretensioning Tool (Base Tool) | 1 |
| • KL-0500-4006 | Knurled Nut | 3 |
| • KL-0500-4007 | Threaded Bolt, M6 | 3 |
| • KL-0500-4008 | Threaded Bolt, M7 | 3 |
| • KL-0500-4009 | Threaded Bolt, M8 | 3 |
| KL-0500-403 | Reset Tool | 1 |
| KL-0500-404 | Set of Clutch-Centring Pins (3-pc) | 1 |
| • 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 |
| KL-0500-405 | Clutch Aligner | 1 |
| • 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-0500-4014 | Upgrade Kit (4-hole pitch) | 1 |
| • 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-0500-4590 | Plastic Storage Case | 1 |



KL-0500-405 (Code 2102781) (Patented) Clutch Aligner

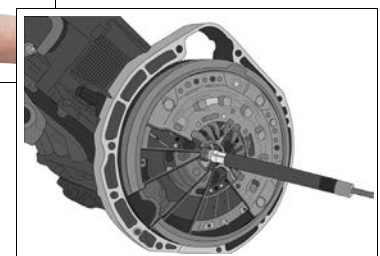
**Suitable for Self-Adjusting Clutches (SAC).
Essential tool for vehicles without a pilot bearing in the crankshaft.
Alternative tool:** LuK 400 0050 10, LuK 400 0107 10

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 |

15 pcs.



KL-0500-4012 (Code 3270556) Supplementary kit of threaded bolts M9 (3 pieces)

Fits universally with SAC clutches with a M9x1,25 screw connection, e.g. for BMW MINI One, One D, Cooper, Cooper S, Works, John Cooper Works (R50, R52, R53), etc.
This supplementary kit enables the assembly of the clutch pretensioner **KL-0500-401** on SAC clutches with a M9x1.25 screw connection.

Necessary Accessories: KL-0500-45 KA Clutch Tool Set (SAC)

3 pcs.



Technical Data:

| | |
|---------|-----------|
| Thread: | M9x1,25mm |
| Length: | 110mm |
| Weight: | 200g |

KL-0500-15 (Code 2440512) Clutch-Centring Pin, Ø 26.5mm, BMW/Audi

Applicable to BMW and Audi. Alternative tool: LuK 400 0110 10, 22 2 201

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.

Recommended Accessory: KL-0500-45 KA Clutch Tool Set (SAC)



Alternative tool:
LuK 400 0110 10, 22 2 201

KL-0500-20 (Code 2440784) Clutch-Centring Pin, Ø 26.5mm

Applicable to BMW E36, E39, E46, E87 with a S5D-250G transmission.

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.

Recommended Accessory: KL-0500-45 KA Clutch Tool Set (SAC)



Alternative tool: 21 2 250

KL-0500-23 (Code 2669803) Clutch-Centring Pin, Ø 32.5mm

Suitable for the BMW vehicles equipped with a GS6-53DG 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).

Recommended Accessory: KL-0500-45 KA Clutch Tool Set (SAC)



Alternative tool: 21 2 280



KL-0500-22

(Code 2440822)

Clutch-Centring Sleeve, Ø 32.5mm, BMW

Suitable for BMW vehicles with a N54B30 engine, e.g. E90/E91/E92/E93 (335i)

Alternative tool: 21 2 270

This tool is used for centring the clutch disc before installing or re-installing a self-adjusting clutch (SAC).

Recommended Accessory: KL-0500-45 KA Clutch Tool Set (SAC)

Technical Data:

| | |
|----------|--------|
| Inner Ø: | 15mm |
| Outer Ø: | 32.5mm |

Scope of Delivery:

KL-0500-22 Clutch Centring Sleeve Ø 32.5mm

| Part No. | Description | Qty |
|----------------|-------------------|-----|
| KL-0015-0010 A | Hex screw M5x45mm | 1 |
| KL-0500-2201 | Centring sleeve | 1 |



21 pcs.



KL-0500-80 K

(Code 3030881) (Patented)

Base Tool Kit for Double Clutch

In conjunction with the respective **vehicle-specific upgrade kits**, 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.

Alternative tool: LuK 400 0418 10

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 tool kit 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.

Necessary Accessories:

KL-0500-81 K Upgrade Tool Kit for Double Clutch, VW or
LuK 400 0423 10 Upgrade Tool Kit for Double Clutch, Renault or
LuK 400 0427 10 Upgrade Tool Kit for Double Clutch, Ford

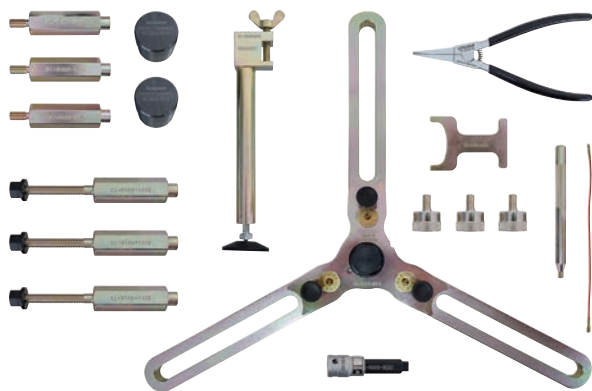
Recommended Accessory:

KL-0500-71 K Reset Tool Kit for Double Clutch

Scope of Delivery:

KL-0500-80 K Base Tool Kit for Double Clutch

| Part No. | Description | Qty |
|-----------------|---|-----|
| KL-0126-221 | Flexible Magnetic Lifter | 1 |
| KL-0192-12 | Circlip Pliers (angled) | 1 |
| KL-0350-0009 | Hex Shoulder Nut, M10 | 3 |
| KL-0500-601 A | Base Tool | 1 |
| KL-0500-6020 | Thumb Screw | 3 |
| KL-0500-6021 | Threaded Bolt, M10, 100mm long | 3 |
| KL-0500-6022 | Threaded Bolt, M10, 160mm long | 3 |
| KL-0500-8010 | Special Open-End Wrench, 47mm waf | 1 |
| KL-0500-8011 | Unlocking Key | 1 |
| KL-0500-8012 | Plug for Drive Shaft Holes | 2 |
| KL-0500-802 | Transmission Support with Height Adjustment Mechanism | 1 |
| KL-0500-803 | DMF Reset Tool | 1 |
| KL-0500-80/80 B | USB-Stick | 1 |
| KL-0500-8090 A | Plastic Storage Case | 1 |



KL-0500-81 K (Code 3030954) (Patented) Upgrade Tool Kit 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).

Alternative tool: LuK 400 0419 10

The **KL-0500-81 K** upgrade tool kit 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.

Necessary Accessories:

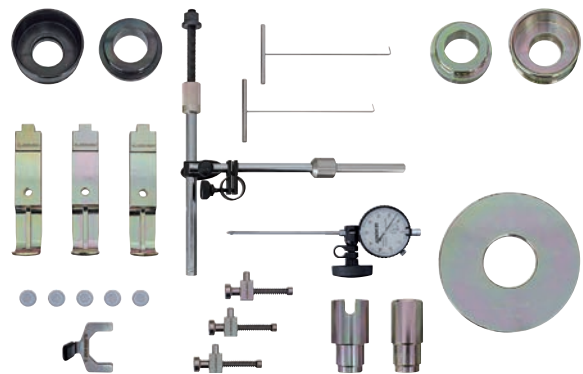
KL-0500-81 K Base Tool Kit for Double Clutch

Scope of Delivery:

KL-0500-81 K Upgrade Tool Kit for Double Clutch, VW

| Part No. | Description | Qty |
|-----------------|----------------------------------|-----|
| KL-0500-6030 | Support Sleeve for Disassembly | 1 |
| KL-0500-6031 | Pressure Sleeve for Assembly | 1 |
| KL-0500-6032 | Reference Gauge, 32.92mm | 1 |
| KL-0500-6033 | Reference Gauge, 48.63mm | 1 |
| KL-0500-6034 | Weight, 3.5kg | 1 |
| KL-0500-6035 | Setting Gauge for Spacer Sleeves | 1 |
| KL-0500-6041 | Hook | 3 |
| KL-0500-6042 | Spring-Loaded Clamp for VW | 3 |
| KL-0500-6051 | Pulling Hook | 2 |
| KL-0500-606 | Dial Gauge with Stand | 1 |
| KL-0500-6071 | Plug, Ø 12mm | 5 |
| KL-0500-6081 | Reference Gauge, 48.42mm | 1 |
| KL-0500-6082 | Reference Gauge, 32.12mm | 1 |
| KL-0500-80/80 B | USB stick | 1 |
| KL-0500-8190 | Plastic Storage Case | 1 |

23 pcs.



KL-0500-83 K (Code 3030997) (Patented) Upgrade Tool Kit for Double Clutch, Ford

Applicable to Ford vehicles with dry double clutch systems, e.g. with DPS6 transmissions.

Alternative tool: LuK 400 0427 10

The **KL-0500-83 K** upgrade tool kit for double clutch is designed to be used in conjunction with the **KL-0500-80 K** (LuK 400 0418 10) base tool kit, thus allowing for the professional dismantling, assembly and adjustment of dry double clutch systems found on Ford vehicles.

Necessary Accessories:

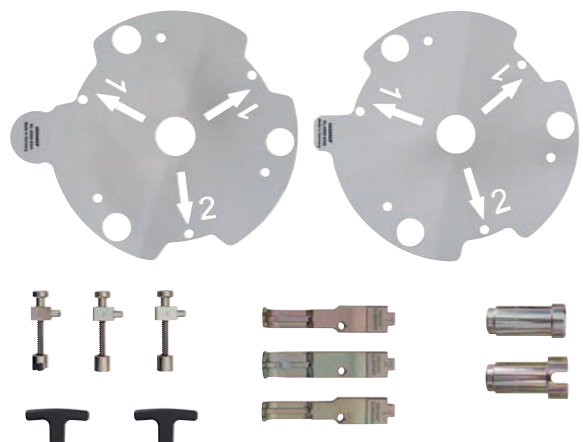
KL-0500-81 K Base Tool Kit for Double Clutch

Scope of Delivery:

KL-0500-83 K Upgrade Tool Kit for Double Clutch, Ford

| | Description | Qty |
|-----------------|---------------------------------------|-----|
| KL-0500-8211 | Pressure Sleeve, assembly | 1 |
| KL-0500-8212 | Support Sleeve, disassembly | 1 |
| KL-0500-831 | Set of Hooks with Clamp | 1 |
| KL-0500-8340 | T-Handle | 2 |
| KL-0500-8341 | Setting Plate, Clutch, Ford 1.6 litre | 1 |
| KL-0500-8342 | Setting Plate, Clutch, Ford 2.0 litre | 1 |
| KL-0500-80/80 B | USB stick | 1 |
| KL-0500-8390 | Plastic Storage Case | 1 |

12 pcs.





16 pcs.



KL-0500-71 K (Code 3031101) Reset Tool Kit 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.

Alternative tool: LuK 400 0425 10

For professional resetting of the transport lock on the double clutch. Required if the double clutch is to be reused after removal.

Note: A new double clutch is usually equipped with a transport lock. Resetting is therefore not necessary.

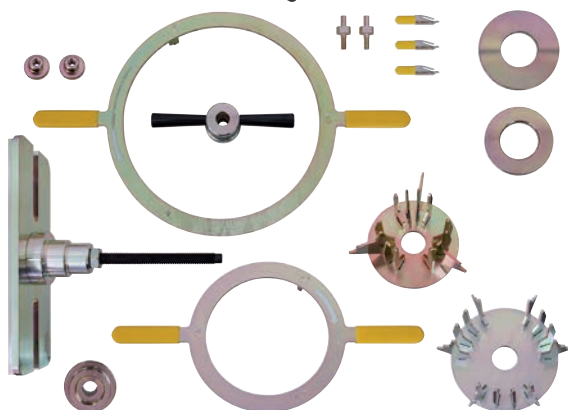
Necessary Accessories:

KL-0500-81 K Base Tool Kit for Double Clutch

Scope of Delivery:

KL-0500-71 K (LuK 400 0425 10) Reset Tool Kit for Double Clutch

| Part No. | Description | Qty |
|-----------------|-------------------------------|-----|
| KL-0500-7110 | Thrust Ring, Ø 85mm | 1 |
| KL-0500-7111 | Thrust Ring, Ø 10mm | 1 |
| KL-0500-712 | Set of Clamps | 1 |
| KL-0500-713 | Retaining Adaptor with Handle | 1 |
| KL-0500-714 | K2 Reset Tool | 1 |
| KL-0500-715 | K1 Reset Tool | 1 |
| KL-0500-716 | Thrust Piece, Ø 115mm | 1 |
| KL-0500-717 | Thrust Piece, Ø 131mm | 1 |
| KL-0500-80/80 B | USB stick | 1 |
| KL-0500-7190 A | Plastic Storage Case | 1 |



8 pcs.



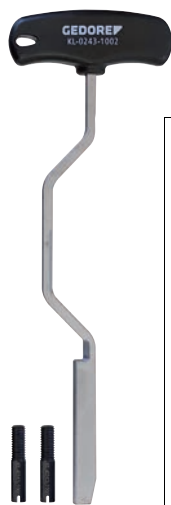
KL-0500-61 K (Code 3030911) Update Tool Kit for Double Clutch

The **KL-0500-61 K** update tool kit is designed to complement the previous LuK tool kit for double clutch (**LuK 400 0240 10**), so that the contents includes all the tools of the current **KL-0500-80 K** base tool kit for double clutch and **KL-0500-81 K** upgrade tool kit for VW.

Scope of Delivery:

KL-0500-61 K Upgrade Tool Kit for Double Clutch

| Part No. | Description | Qty |
|-----------------|---|-----|
| KL-0500-6081 | Reference Gauge, 48.42mm | 1 |
| KL-0500-6082 | Reference Gauge, 32.12mm | 1 |
| KL-0500-8010 | Special Open-End Wrench, waf 47mm | 1 |
| KL-0500-8011 | Unlocking Key | 1 |
| KL-0500-8012 | Plug for Drive Shaft Holes | 2 |
| KL-0500-802 | Transmission Support with Height Adjustment Mechanism | 1 |
| KL-0500-803 | DMF Reset Tool | 1 |
| KL-0500-80/80 B | USB stick | 1 |
| KL-0500-6190 | Plastic Storage Case | 1 |



3 pcs.



KL-0243-10 (Code 3238768) Assembly Lever, with Guide Pins

Applicable to VW-Audi, Seat and Škoda vehicles equipped with a transversely mounted 7-speed double-clutch gearbox OAM; such as Audi A3 (8P); VW Polo (6R, 6C), Golf (1K), Golf Plus (1KP), Touran (1T), Eos (1F), Passat (3C), Passat CC (35), Scirocco (13); SEAT Ibiza V (KJ), Toledo (5P); ŠKODA Fabia (5P), Octavia (1Z) etc.

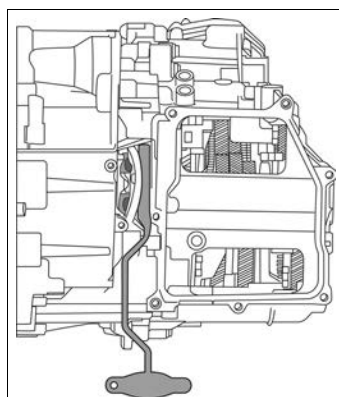
Alternative tool: T10406, T10407

Required to pre-load and lock the clutch engagement levers when removing and installing the mechatronic unit on a (DSG) double-clutch gear box OAM. The guide pins supplied with the kit ensure straight mounting of the mechatronic unit.

Scope of Delivery:

KL-0243-10 Assembly Lever, with Guide Pins

| Part No. | Description | Qty |
|--------------|-------------------------------|-----|
| KL-0243-1002 | Assembly Lever (for plungers) | 1 |
| KL-0243-1001 | Guide Pin | 2 |



KL-0043-341 (Code 3042324)

Internal Puller, Ø 16-18mm

Applicable to VW-Audi 1.2, 1.4, 1.6, 1.8 TSI / TFSI and 1.6, 1.9 TDI engines with 7-speed 0AM dual clutch gearbox (dry clutch); as fitted to: Audi A1 (8X1), A3 (8P1, 8P1, 8PA); Seat Altea (5P1) Altea XL (5P5, 5P8) Ibiza V (6J5, 6J1, 6J8), Leon (1P1) Toledo III (5P2); Skoda Fabia II (54), Octavia (1Z3, 1Z5), Superb (3T4, 3T5); VW Golf Plus (5M1, 521), Golf V (1K1, 1K5), Golf VI (5K1, 517, AJ5), Jetta III (1K2), Passat (362, 365, 3C2, 3C5), Passat CC (357), Polo (6R), Scirocco (137), Touran (1T1, 1T2, 1T3) etc.

The internal puller allows for the easy and professional removal of pilot/guide bearings from vehicles equipped with a 7-speed 0AM dual clutch gearbox.

The collet made of high-grade special steel allows the internal puller to be securely held in the pilot/guide bearing.

Necessary Accessories: 1.36/1 Counter-support brace

Scope of Delivery: KL-0043-341 Internal Puller, Ø 16-18mm

| Part No. | Description | Qty |
|--------------|---------------------|-----|
| KL-0043-3411 | Collet, Ø 16-18mm | 1 |
| KL-0043-3413 | Expanding Bolt, M10 | 1 |



Technical Data:

| | |
|-------------------|-----|
| Retaining thread: | M10 |
|-------------------|-----|

KL-0069-5 K (Code 3140873)

Clutch Aligner Kit

Applicable to vehicles both with and without a pilot/guide bearing in the crankshaft, with clutch discs having a hub Ø ranging from 15-29mm, and pilot/guide bearing Ø from 12-16mm respectively.

Alternative tool: 16-067, 308-204, W 000 589 47 31 00, W 201 589 08 15 00

For the quick centric alignment of the clutch disc to the pressure plate, the flywheel respectively. The special design of the tool provides for the perfect centring of the clutch.

Technical Data:

| | |
|---|-----------|
| Clamping range (of size 1 clamping cone): | 15 - 22mm |
| Clamping range (of size 2 clamping cone): | 22 - 29mm |

Scope of Delivery: KL-0069-5 Clutch Aligner

| Part No. | Description | Qty |
|----------------|----------------------|-----|
| KL-0069 | Clutch Aligner | 1 |
| KL-0069-5010 A | Centring Sleeve Set | 1 |
| KL-0069-5030 | Plastic Storage Case | 1 |

12 pcs.



KL-0118-10 A (Code 2850796)

Pliers for Clutch Master Cylinder Piston Rod

Applicable to VW-Audi, Opel/Vauxhall, Citroën and Peugeot.

The ideal tool for e.g.: Opel/Vauxhall Astra-J, Signum, Vectra-C; Audi A1 (8X), A3 (8P), A4 (B7), A6 (C6); VW Golf (1K1), Passat (3B6), Eos (1F); Peugeot 207 (06-15); 307 (01-09); 308 (07-13); 407 (04-11); Citroën C3 (2009-) (also for Picasso); C4 (04-10) (also for Picasso); C5 II (2007-) etc.

Alternative tool: T10005, T20029A, 0350-C

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 |





KL-0110 A Holding Wrench

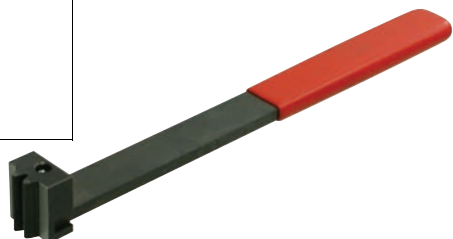
(Code 2480417) (Universal)

Universal application.

Used for locking flywheels.

Technical Data:

| | |
|---------|-------|
| Length: | 250mm |
| Weight: | 0.5kg |



KL-0140-2 A Friction Gauge, 0.3 - 6Nm

(Code 3251632)

Applicable to passenger cars and HGVs.

For example from: Mercedes and VW.

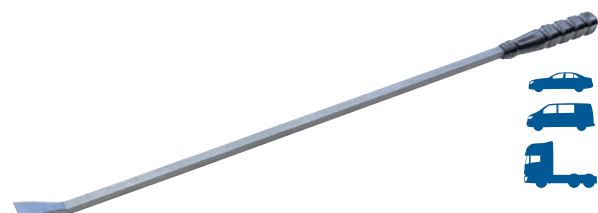
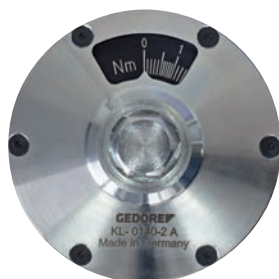
Alternative tools: W 001 589 49 21 00, VAS 6523

The friction gauge allows you to accurately determine the friction torque in the range of 0.3 - 6Nm on differentials, manual or automatic transmissions and steering gears. Required to check and adjust the bearing preload when removing/installing the propshaft flange, after changing the shaft seal or when performing transmission repairs. Input takes place via the 13mm hexagon, output via the 1/2" square.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Technical Data:

| | |
|------------------|-----------|
| Measuring range: | 0.3 - 6Nm |
| Input: | 13mm waf |
| Output: | 1/2" |
| Diameter: | 64mm |
| Height: | 66mm |



KL-0190-94 Pry Bar

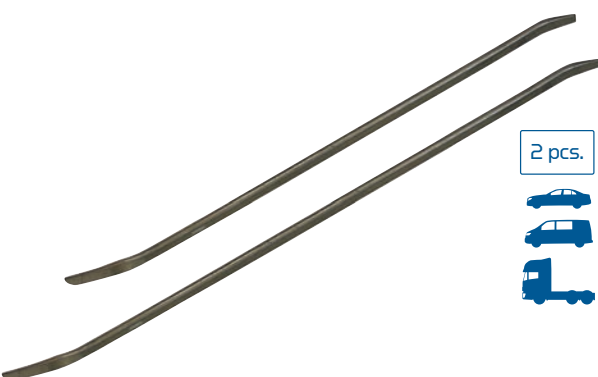
(Code 1961314)

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 |



2 pcs.



KL-0193-95 Pry Bar Set

(Code 1754092)

These pry bars made of special steel are ideal for:

- Dismantling stubborn components.
- Positioning components.
- Holding components in position.
- Checking suspension ball joints and silentblocs.

Technical Data:

| Part No. | Length | Blade width 1 / 2 | Weight |
|-------------|--------|-------------------|--------|
| KL-0193-951 | 730mm | 24/33mm | 1,600g |
| KL-0193-953 | 900mm | 24/33mm | 1,900g |

44 ...

Pin-Type Face Spanner

- Similar to DIN 3116
- GEDORE vanadium steel 31CrV3, manganese-phosphated
- Spanner features riveted or welded pins (not replaceable)



44 3

[Code 6354480]

Pin-Type Face Spanner, Pin Ø 3mm

For use on two-hole nuts Ø 11-60mm.

Technical Data:

| | |
|-----------------|---------|
| Ø: | 11-60mm |
| Pin Ø: | 3mm |
| Pin height: | 4mm |
| Overall length: | 178mm |
| Weight: | 148g |

44 4

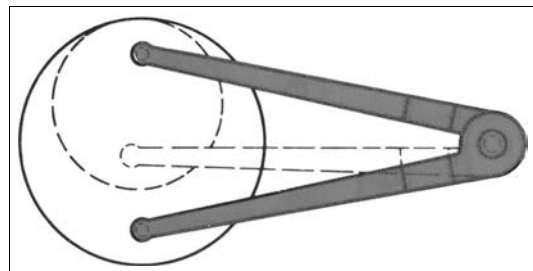
[Code 6354560]

Pin-Type Face Spanner, Pin Ø 4mm

For use on two-hole nuts Ø 11-60mm.

Technical Data:

| | |
|-----------------|---------|
| Ø: | 11-60mm |
| Pin Ø: | 4mm |
| Pin height: | 5mm |
| Overall length: | 178mm |
| Weight: | 151g |



44 5

[Code 6354640]

Pin-Type Face Spanner, Pin Ø 5mm

For use on two-hole nuts Ø 14-100mm.

Technical Data:

| | |
|-----------------|----------|
| Ø: | 14-100mm |
| Pin Ø: | 5mm |
| Pin height: | 6mm |
| Overall length: | 230mm |
| Weight: | 259g |

44 6

[Code 6354720]

Pin-Type Face Spanner, Pin Ø 6mm

For use on two-hole nuts Ø 14-100mm.

Technical Data:

| | |
|-----------------|----------|
| Ø: | 14-100mm |
| Pin Ø: | 6mm |
| Pin height: | 7mm |
| Overall length: | 230mm |
| Weight: | 260g |

1.06/AS

[Code 8001710]

Puller set

2-arm puller, with 6 slim legs in 3 lengths.

The 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.

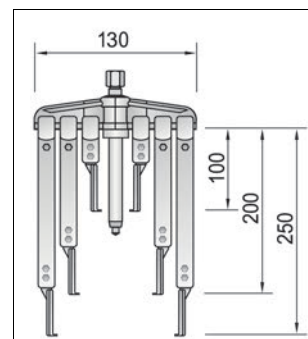
Recommended Accessory:

1993 U-20 Reversible Ratchet 1/2"

Technical Data:

| | |
|----------------------------------|---------------|
| Drive: | 17mm |
| Max. pulling width: | 130mm |
| Usable clamping reach: | 100/200/250mm |
| Width of hooked foot: | 29.5mm |
| Thickness of hooked foot at tip: | 3.7mm |
| Depth of hooked foot: | 13.5mm |
| Max. load capacity: | 2.5t |

7 pcs.





15 pcs.



1100-1.04

[Code 2838362]

Universal Puller Assortment

- 2- and 3-arm cross-beam
- With rigid and slim legs and extensions
- Extra-slim pulling legs for cramped spaces are attached for self-mounting
- The forged leg feet are very slim particularly suitable for barely accessible places
- 12 different pullers can be combined
- External Ø up to 130mm, internal Ø up to 170mm with a 200mm clamping reach
- With Check-Tool insert for quick check of completeness

Note:

1100 CT2-1.04 Universal puller

Like the **1100-1.04**, however, supplied without Plastic Storage Case.



8 pcs.



1100-1.30

[Code 2836041]

Internal Extractor Assortment

- For Clamping width 12-35mm
- For extremely-tightly-packed ball bearings, bearing races, bushings, and shaft seals
Simmering®
- Sliding hammer 1.7kg and counter-support brace
- With Check-Tool insert for quick check of completeness
- As tools are fully sunk in the foam, the equipped insert can be stacked
- Insert for use in drawers with min. dimensions 400 x 310 x 60mm

Note:

1100 CT2-1.30 Internal extractor

Like the **1100-1.30**, however, supplied without Plastic Storage Case.

Technical Data:

| | |
|----------------------------------|---------|
| Clamping width internal pulling: | 12,35mm |
|----------------------------------|---------|



14 pcs.



1100-1.41/2A

[Code 2927284]

Separator and Puller Set

- Clamping width external pulling Ø 22-115mm
- Incl. threaded inserts for internal threads M8-M18
- For loosening and pulling tightly-seated parts e.g. taper roller bearings and inner bearing races
- The clamping reach can be extended with extension rods 1.38/AV-FV from 195 to 295mm
- With Check-Tool insert for quick check of completeness
- As tools are fully sunk in the foam, the equipped insert can be stacked
- Insert for use in drawers with min. dimensions 400 x 310 x 60mm

Note:

1100 CT2-1.41/2A Separator and puller set

Like the **1100-1.41/2A**, however, supplied without Plastic Storage Case.

KL-0124-43 (Code 2871726)

Oil Pump with 12 Litre Reservoir

Universal field of application. Ideal for use on gearboxes as found in VW-Audi, Ford, BMW, Honda, Nissan, Toyota, Mercedes, Volvo vehicles.

The oil pump with 12 litre reservoir is designed to facilitate 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-0124-4313 | Filling Hose with Ball Valve | 1 |
| KL-0124-4312 | Hook | 1 |
| KL-0124-432 K | Adaptors in a Storage Case | 1 |
| • KL-0124-4358-0 | Adaptor for Ford 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 |



11 pcs.



Note:

Additional reservoir with lid available as accessory (to be ordered separately).

Recommended Accessories:

KL-0124-433 Reservoir with lid (12l)

KL-0124-4359 Angled Oil Filler Adaptor (VW-Audi)

KL-0124-4358-10 Oil Filling Adaptor, DSG Transmission, VW

Technical Data:

| | |
|---|------------------|
| Reservoir capacity (with pump): | 12 litre |
| Cracking pressure of the pressure relief valve: | 1 bar (14 psi) |
| Maximum pressure: | 2.5 bar (35 psi) |

KL-0124-432 K (Code 2871661)

Adaptor Assortment, in a Storage Case

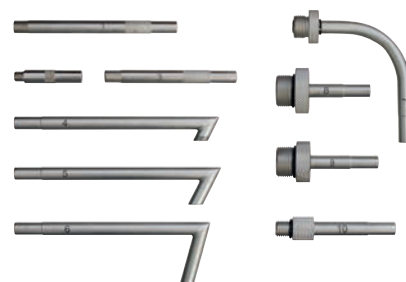
Universal field of application. Particularly suitable for use on gearboxes found in VW-Audi, Ford, BMW, Honda, Nissan, Toyota, Mercedes, Volvo vehicles.

The **KL-0124-432 K** assortment with its universal and vehicle-specific adaptors allows the **KL-0124-43** oil pump with reservoir to be used for a wide range of applications.

Scope of Delivery: KL-0124-432 K Adaptor Assortment, in a Storage Case

| Part No. | Description | Qty |
|----------------|--|-----|
| KL-0124-4358-0 | Adaptor for Ford 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 |

10 pcs.



KL-0124-4358-10 (Code 3236935)

Oil Filling Adaptor, DSG Transmission, VW

Applicable to Audi vehicles equipped with a longitudinal-mounted 7-speed DSG transmission (DL382 Series). Alternative tool: VAS 6617/12

The adaptor is needed for filling DSG transmissions.



Necessary accessories: KL-0124-43 Oil Pump

KL-0124-4359 (Code 3235556)

Angled Oil Filler Adaptor

Applicable to VW-Audi vehicles equipped with a transverse-mounted 7-speed DSG transmission (DQ200 Series). Alternative tool: VAS 6262/4

The adaptor is needed for filling DSG transmissions.



Necessary Accessories: KL-0124-43 Oil Pump



KL-0124-433 (Code 2871874) Reservoir (12 Liter) with Lid

Additional reservoir for KL-0124-43 if different types of oil are to be used.

The **KL-0124-433** reservoir (12 liter) 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 liter) with Lid

| Part No. | Description | Qty |
|--------------|---------------------------------------|-----|
| KL-0124-4331 | Reservoir (12 liter) with Lid (empty) | 1 |
| KL-0124-4332 | Lid without connections | 1 |



KL-0288-11 (Code 2228947) Oil Filler Adaptor for VW DSG Gearbox

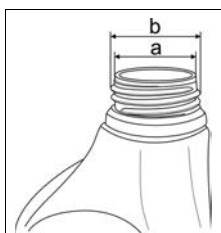
Suitable for use on VW-Audi DSG gearboxes.

Alternative tool: 6262, VAS 6262 A

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 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-0231-2 (Code 1754408) Multi-Spline Socket, XZN, M16

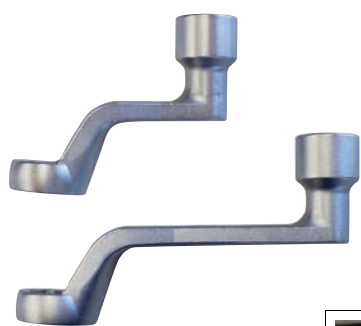
Applicable to Audi A3, A4, A6; VW Fox, Golf (IV), LT.

This multi-spline socket features an inner bore and is therefore the ideal tool for oil drain plugs and oil control plugs on gearboxes.

Recommended Accessory: 1993 U-20 Reversible Ratchet 1/2"

Technical Data:

| | |
|---------|------|
| Size: | M16 |
| Length: | 60mm |
| Drive: | 1/2" |



2 pcs.



KL-0231-40 (Code 3123782) Oil Filter Socket Set, DSG, angled

Applicable to VW-Audi, Seat and Skoda DSG transmissions.

The oil filter sockets of this set allow for the quick and professional loosening and tightening of the oil filter housing cover on DSG transmissions; required when changing the oil filter cartridge. Thanks to the specially angled design of the sockets, the removal of the battery/battery tray assembly is no longer necessary and, as a result, the time-consuming procedure of teaching-in the parameters of the different electronic control units is eliminated.

Recommended Accessory:

1993 U-20 Reversible Ratchet 1/2", **1990-10** Extension 1/2", 250mm

Technical Data:

| | |
|-------------|------|
| Drive: | 1/2" |
| Size (waf): | 24mm |

Scope of Delivery:

KL-0231-40 Oil Filter Socket Set, DSG, angled

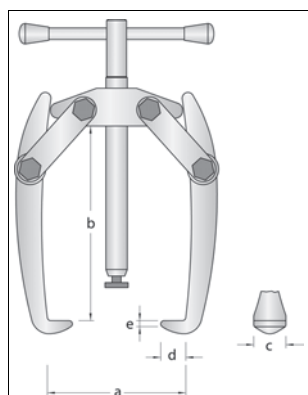
| Part No. | Description | Qty |
|-------------|---------------------------------------|-----|
| KL-0231-401 | Oil Filter Socket, DSG, angled, long | 1 |
| KL-0231-402 | Oil Filter Socket, DSG, angled, short | 1 |





6. Vehicle Body and Interior Fittings





1.12/01

(Code 8003760)

Wiper Arm Puller

Universal application. Alternative tool: W 001 589 38 33 00

The perfect tool for the quick and easy removal of bolted windscreen wiper arms, even when these have rusted or seized on the shaft. Also suitable for battery terminals, pulleys, gears, ball bearings, etc. The hook tips grip automatically.

Technical Data:

| | |
|----------------------|---------|
| a max.: | 60mm |
| b: | 60mm |
| c: | 10mm |
| d: | 5mm |
| e: | 2.0mm |
| Spindle thread size: | M10x1,5 |
| Max. load capacity: | 0.5t |
| Weight: | 180g |



KL-0273-10

(Code 2273926)

Removal Tool for Car Door Handle

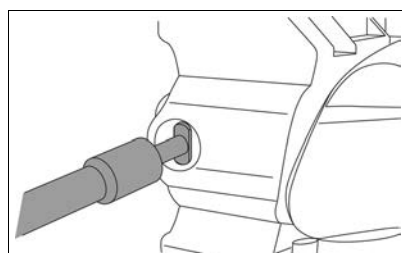
Suitable for use on many car models from VW-Audi, Seat, Škoda. For example: VW Golf V (1K), Golf VI (5K), Fox (5Z), Tiguan (5N), Passat (3C), Amarok (2H), Beetle (5C), etc.

Alternative tool: T10389

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-0273-11

(Code 3238733)

Door Handle Removal Tool, VW

Applicable to VW-Audi, SEAT and ŠKODA vehicles such as: Audi Q2 (GA); VW Polo (AW), Golf Sportsvan (AM), Passat B8 (3G), Caddy IV (SA), Tiguan II (AD), Touran II (5T) etc.

Alternative tool: T10539

The tool is designed to remove and install the cap on door handles. Allows the locking hook for the cap on the door handle to be released and locked quickly and professionally. Necessary to dismantle and mount door handles with cap.

Technical Data:

| | |
|---------|-------|
| Length: | 205mm |
|---------|-------|



KL-4306-6330

(Code 1756435)

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.

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:

| | |
|---------|-------|
| Length: | 350mm |
|---------|-------|

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

KL-4306-8320 [Code 1829904]

5-Point Screwdriver with T-Handle (T20x260mm)

Suitable for Mercedes.

The length and narrow shape of the **KL-4306-8320** five-point star screwdriver makes it ideal for removing and installing exterior rear view mirrors on Mercedes vehicles.

Technical Data:

| | |
|-----------------|-------|
| Weight: | 100g |
| Size: | T20 |
| Shaft Length: | 220mm |
| Overall length: | 260mm |

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-4043-100 [Code 3292002]

Socket Spanner Set 1/4" + 3/8", IP TorxPlus®

Universally suitable for cars with TorxPlus® fittings such as VW, Audi, Seat, Škoda, Renault, Nissan, Opel, Fiat, Toyota, GM, Ford, and many others.

For loosening and tightening TorxPlus® screwed connections with inner profile such as on timing belt or timing chain housing covers as well as on engines and gearboxes in general.

Recommended Accessories:

GEDORE 2093 U-20 Reversible Socket Spanner 1/4",
GEDORE 3093 U-20 Reversible Socket Spanner 3/8"

Technical Data:

| | |
|---------------|---|
| Spanner size: | IP 10; 15; 20; 25; 30; 40; 45; 50; 55; 60 |
| Drive: | 1/4" + 3/8" |

11 pcs.



KL-4043-200 [Code 3292118]

Socket Spanner Set 3/8", EP TorxPlus®

Universally suitable for cars with TorxPlus® fittings such as VW, Audi, Seat, Škoda, Renault, Nissan, Opel, Fiat, Toyota, GM, Ford, and many others.

For loosening and tightening TorxPlus® screwed connections with external profile such as on timing belt or timing chain housing covers as well as on engines and gearboxes in general.

Recommended Accessories:

GEDORE 3093 U-20 Reversible Socket Spanner 3/8"

Technical Data:

| | |
|---------------|---------------------------|
| Spanner size: | EP 10; 12; 14; 16; 18; 20 |
| Drive: | 3/8" |

7 pcs.



KL-4043-300 [Code 3292207]

Socket Spanner Set 1/2", EP TorxPlus®

Universally suitable for cars with TorxPlus® fittings such as VW, Audi, Seat, Škoda, Renault, Nissan, Opel, Fiat, Toyota, GM, Ford, and many others.

For loosening and tightening TorxPlus® screwed connections with external profile such as axle parts, flywheels, as well as on engines and gearboxes in general.

Recommended Accessories:

GEDORE 1993 U-20 Reversible Socket Spanner 1/2"

Technical Data:

| | |
|---------------|---------------------------|
| Spanner size: | EP 22; 24; 26; 28; 30; 32 |
| Drive: | 1/2" |

7 pcs.





KL-4084-200 (Code 3241130) Mortorq® Super (MTS) Bit Socket Set

Universally applicable to Mortorq® Super fasteners as found on Alfa Romeo, BMW, Chrysler, Fiat, GM, Honda, Jeep, Nissan, Tesla etc.

Designed for the professional loosening and tightening of screws with Mortorq® Super (MTS) Profile.

Applications include transmission, differential, hybrid and chassis components as well as car seats, seat rails, interior trims, restraint systems etc.

The bit socket set is supplied on a handy storage rail.

Recommended Accessory:
3093 U-20 Reversible Ratchet, 3/8"

Technical Data:

| | |
|--------------|-----------------------------------|
| Drive: | 3/8" |
| Length: | 50mm |
| Sizes (waf): | MTS0, MTS1, MTS2, MTS3, MTS4 |
| Profile: | For Mortorq® Super (MTS) Profiles |



KL-4503-301 (Code 2918641) Multi-Purpose Pliers, 180mm

Universal use.

These multi-functional pliers are provided with toothed gripping jaws to ensure that cables and other parts are securely held. The pliers combine multiple features into a single tool allowing for holding, insulation-stripping, cutting, crimping and squeezing of cables, insulated flat plugs, wire end ferrules, crimp connections etc.

Technical Data:

| | |
|------------------------------------|--|
| Stripping of insulations: | 0.5mm ² / 1.5mm ² / 2.5mm ² |
| Crimping of wire end ferrules: | 0.5mm ² - 2.5mm ² |
| Squeezing of insulated flat plugs: | 1.0mm ² - 2.5mm ² |
| Length: | 180mm |
| Weight: | 180g |



KL-0190-41 A (Code 3236579) Release/Removal Pliers

Applicable to VW-Audi 1.6 and 2.0 Common Rail Diesel engines.

Fitted to: Audi A1 (8X), A3 (8V), A4 (B9, 8W), A5 (8F), A6 (C7, 4G), Q3 (8U), Q5 (8R), TT (FV, 8S); VW Golf VII (AU, 5G), Passat (B8, 3G), Scirocco III (13) etc.

Kunststoff-Nieten z.B. am Querlenker von Audi A4, A5, A6

Alternative tool: VAS 211 007, T40195

For removing press-fit injector seal rings from the cylinder head quickly and with ease. The pliers are also designed to unlock and pull out the re-usable two-part plastic body-bound rivets from door and underbody panels.

The pliers head can be adjusted up to an angle of 90°, thus allowing you to work even in hard-to-reach areas.

Technical Data:

| | |
|---------|-------|
| Length: | 240mm |
|---------|-------|



KL-0194-130 A (Code 2478536) Set of Plastic Wedges

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

| Part No. | Description | Weight | Dimensions (mm) LxWxH |
|--------------|---|--------|-----------------------|
| KL-0194-13 A | Plastic Wedge, with Felt | 75g | 255x20x25 |
| KL-0194-14 A | Plastic Wedge, with Straight and Sloping Tip | 35g | 250x20x10 |
| KL-0194-15 A | Plastic Wedge | 75g | 200x30x25 |
| KL-0194-16 A | Plastic Wedge, Angled, with Cutout and Pin (for door clips) | 55g | 230x22x8 |

KL-0190-50 Hog Ring/Pliers Kit

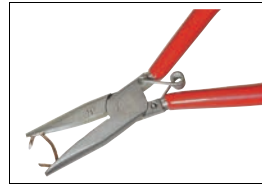
[Code 1804898]

For installing upholstery hog rings on vehicle seats (various makes).

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 |



Technical Data:

| | |
|------------|--------------|
| Dimension: | 220x115x33mm |
| Weight: | 500g |

KL-0372-6 Mounting Sleeve for Ignition Switch, MB

[Code 1827820]

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.

Alternative tool: W 202 589 00 14 00, W 210 589 00 07 00

Designed to loosen the ignition switch retaining ring.



KL-0372-3 Set of Pulling Hooks (long), Mercedes

[Code 1755544]

Suitable for Mercedes W116, W123, W124, W126, W129, W140, W201, W202, W203, W208, W209, W210, W211, W220, W230 as well as VW Crafter.

Alternative tool: W 126 589 03 33 00, W 140 589 02 33 00

For removing the instrument cluster.



KL-0191-10 Special Screwdriver Bit Socket with Bore, Torx® T30

[Code 1753967]

Suitable for removal and installation of airbags on BMW, Mercedes etc.

Alternative tool: W 126 589 00 01 00

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



Recommended Accessory: 2093 U-20 Reversible Ratchet, 1/4"

KL-0191-11 Special Screwdriver Bit Socket, Torx® T30

[Code 1753975]

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.

Recommended Accessory: 2093 U-20 Reversible Ratchet, 1/4"

Technical Data:

| | |
|---------|------|
| Length: | 85mm |
| Drive: | 1/4" |
| Weight: | 22g |

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





2 pcs.



KL-0242-10 (Code 1754467) Airbag Removal Tool Set (2 pcs.)

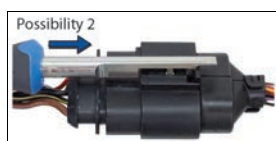
Suitable for driver-side airbags on VW Golf (IV, V), Lupo, New Beetle, Passat (B5) '97 onwards, Polo '99 onwards, Sharan 06/00 onwards.

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-0190-11 (Code 3253147) Connector Release Tool

Universally applicable to many wire harness connector systems. Particularly useful with VW-Audi, Seat, Skoda, Porsche, Opel/Vauxhall, Fiat and Renault vehicles.

For the professional and non-destructive release/removal of connectors as found on mass airflow (MAF) sensors, coil packs, headlights etc.

The **unique design** of the tool allows the connector to be **released from both sides** - by pulling from the rear as well as by pushing from the front. The special shape of the blade ensures that the profile engages the release tab on the connector completely and **non-destructively** - no matter which technique is applied.

Even connectors where the tab is broken off are no longer an issue and can be **released with ease**.

- **Safe** - allows for non-destructive release of the connector
- **Universal** - allows the connector to be released not only from the rear but also from the front
- **Innovative** - allows for hassle-free release of the connector - even if the tab is broken off

Technical Data:

| | |
|---------|-------|
| Length: | 150mm |
|---------|-------|



19 pcs.



KL-0190-28 K (Code 2004119) 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.

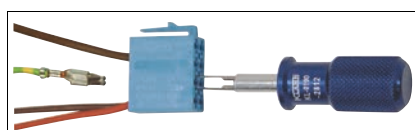
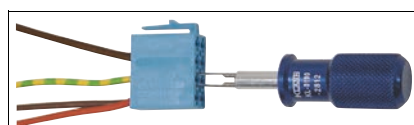
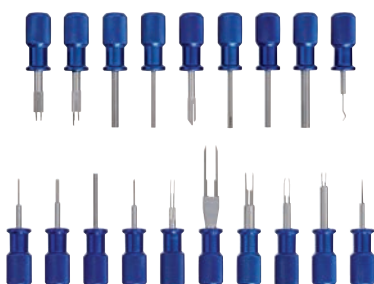
Due to their very short shape, the terminal tools enable the easy release of cable plug-and-socket connections, even if these are difficult to access.

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.



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, Skoda, VW |
| KL-0190-2806 | Audi, BMW, Mercedes, Opel/Vauxhall, Renault, Seat, Skoda, VW |
| KL-0190-2807 | BMW, Mercedes |
| KL-0190-2808 | Audi, Seat, Skoda, 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, Skoda, Opel/Vauxhall, Seat, VW |
| KL-0190-2818 | Audi, BMW, Mercedes, Opel/Vauxhall, Seat, Skoda, VW |
| KL-0190-2819 | Audi, BMW, Ford, Mercedes, Opel/Vauxhall, Renault, Seat, VW |

KL-0190-30

(Code 1859501)

Test Lamp

The test lamp is suitable for testing electric circuits up to 24V. Facilitates locating open and short circuits.

The probe-tip is protected by a screw-cap.

Technical Data:

| | |
|---------|-----|
| Weight: | 60g |
|---------|-----|



KL-0190-12

(Code 3256588)

Pry Bar with Handle

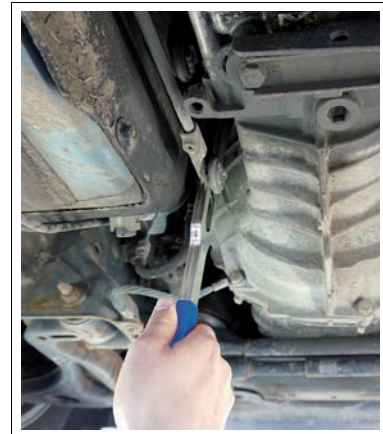
Universal application.

This strong fork-type pry bar is a very versatile tool suitable for a wide range of jobs on the vehicle. Typical applications include levering off panels, axle parts, rubber exhaust hangers and housings as well as checking silentblocs/bushes and ball joint connections on vehicle axles.

Particularly useful for separating push-fit ball joint connections on shifter cables and shift linkages. An indispensable tool when replacing a clutch or carrying out repairs on transmissions etc.

Technical Data:

| | |
|----------------------|-------|
| Fork internal width: | 15mm |
| Fork external width: | 35mm |
| Fork length: | 60mm |
| Overall length: | 250mm |



KL-0190-20

(Code 1794930) (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-0126-203

(Code 1828061)

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-0126-206

[Code 1792911]

Telescopic Magnetic Lifter

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 |

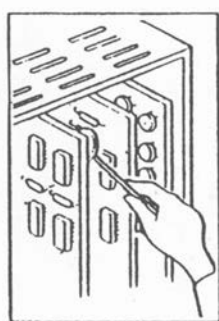
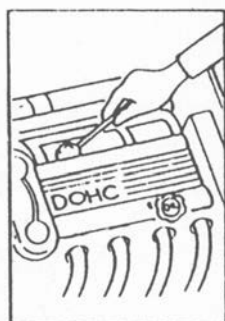


KL-0126-261

[Code 1875531]

Telescopic Mirror, Ø 50mm, 300mm long

Allows hard-to-reach places to be easily seen. Any orientation possible thanks to the 360° swivel ball joint.



Technical Data:

| | |
|---------|-----------|
| Length: | 170-300mm |
|---------|-----------|



53 pcs.



1100-1094

[Code 2979063]

VDE Tool Assortment HYBRID, in GEDORE L-BOXX® 136

- 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:

- 3/8" VDE Socket No. VDE 30, SW 6 8 9 10 11 12 13 14 15 16 17 18 19 20 22mm
- 3/8" VDE Screwdriver bit socket No. VDE INX 30, AF 8 10 12mm
- 3/8" VDE Extension No. VDE 3090 -3 -6, 75 150mm
- 3/8" VDE Reversible ratchet No. VDE 3093 U
- VDE Screwdriver slotted No. VDE 2170, 2.5 3.5 4 5.5mm
- VDE Screwdriver cross-slotted No. VDE 2160 PH 1 2 3
- VDE Screwdriver TX No. VDE 2163 TX T20 T25 T30
- VDE Cable shears No. VDE 8094, 200mm
- VDE Universal pliers No. VDE 146 10, 10"
- VDE Power combination pliers No. VDE 8250-200 H, 200mm, 2C handle
- VDE Power side cutter No. VDE 8314-180 H, 180mm
- VDE Bent nose pliers No. VDE 8132 AB-200 JC, 200mm angled 2C handle
- VDE Flat nose pliers No. VDE 8120-160 H, 160mm, 2C handle
- VDE Cable knife No. VDE 4522, 180mm
- Meter connection fitting No. V 914, Size 1 2 3





7. Drives and Accessories



KL-4007-311 [Code 1755943]
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 |



3 pcs.

KL-4007-3112 [Code 1755951]
Swivel Head

Spare part for breaker bar **KL-4007-311**.



KL-4007-411 [Code 2941554]
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 |
| Max load: | 1,050Nm |



KL-0049-100 [Code 1791664]
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.

Technical Data:

| | |
|-----------------------------------|-------|
| Hammer weight: | 0.8kg |
| Length: | 215mm |
| Connecting thread on the tie rod: | M10 |



KL-0049-101 [Code 2378493]
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.

Technical Data:

| | |
|-----------------------------------|-------|
| Hammer weight: | 0.8kg |
| Length: | 300mm |
| Connecting thread on the tie rod: | M10 |

KL-0369-4100 [Code 2320754]

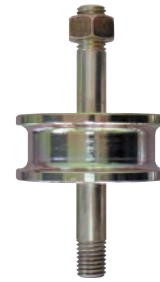
Slide Hammer Puller Base Tool, 1.5kg

Alternative tool: W 355 589 01 63 00

This tool is designed to extract tight-fitting and seized components such as injectors etc. It is used in conjunction with the respective corresponding adaptors.

Technical Data:

| | |
|--------------------|-------|
| Hammer weight: | 1.5kg |
| Connecting thread: | M18 |



KL-0049-300 [Code 2379228]

Slide Hammer Puller Base Tool, 4.8kg

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.

Recommended Accessory: KL-0049-3020 Hook

Technical Data:

| | |
|--------------------|-------|
| Hammer weight: | 4.8kg |
| Connection thread: | M18 |



KL-0174-545 [Code 2379228]

Adaptor, 2 1/4"-14 UNS to M18

Component for the assembly of a Puller from the **KL-0174-... Puller-Series**.



KL-0049-3020 [Code 1881620]

Hook

Used in conjunction with the slide hammer puller **KL-0049-31 / KL-0049-300** for pulling chassis parts.



KL-0214-1602 [Code 2079852]

Pull Spindle, M10x1.25

Technical Data:

| | |
|---------|----------|
| Length: | 130mm |
| Thread: | M10x1.25 |
| Drive: | waf 17mm |



Spare part for **KL-0214-16** Pulling device for silentblocks.

KL-0174-831 [Code 2723190]

Mechanical Drive Set

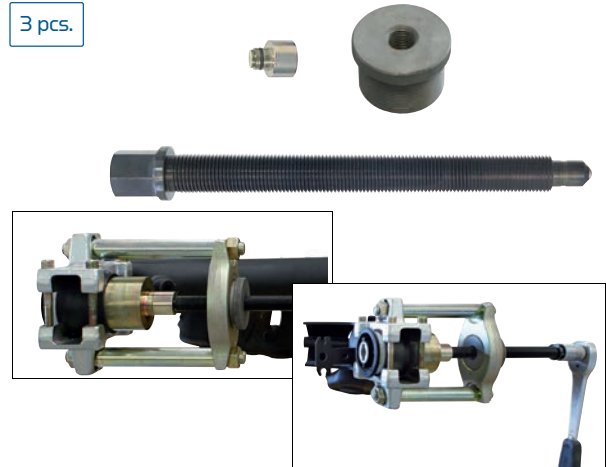
The mechanical drive set **KL-0174-831** enables GEDORE Automotive pressing devices, for example those consisting of press frame **KL-0039-1140, KL-0326-1000** etc. and sleeve sets of the **KL-0039 Series**, to be driven mechanically.

Scope of Delivery:

KL-0174-831 Mechanical Drive Set

| Part No. | Description | Qty |
|-------------|-------------------------------------|-----|
| KL-0174-620 | Spindle, M20x2x230 | 1 |
| KL-0174-547 | Adaptor, 2 1/4"-14 UNS to M20x2 | 1 |
| KL-0174-853 | Thrust Piece for Mechanical Spindle | 1 |

3 pcs.



Overview Spindle, Quick-Action Clamping Nut, Clamping-/Pressure Nut



Spindles for Cardan Shafts KL-0174-Series

| KL-No. | Code | Thread | Type | Overall length | L-/Ø-operating | Max. | Drive |
|-------------|---------|---------|------------------|----------------|----------------|------|------------|
| KL-0174-610 | 2404559 | M14x1,5 | Pressure Spindle | 175mm | 150mm | 9t | mechanical |
| KL-0174-812 | 1817140 | M16x1,5 | Pressure Spindle | 175mm | 150mm | 13t | mechanical |
| KL-0174-611 | 1903136 | M16x1,5 | Pressure Spindle | 69mm | 50mm | 13t | mechanical |
| KL-0174-817 | 2261995 | M20x1,5 | Pressure Spindle | 180mm | 150mm | 20t | mechanical |
| KL-0174-620 | 2173131 | M20x2 | Pressure Spindle | 260mm | 230mm | 20t | mechanical |



Spindles for Silent Blocks and Wheel Bearings KL-0039- / KL-0040-Series

| KL-No. | Code | Thread | Type | Overall length | L-/Ø-operating | Max. | Drive |
|----------------|---------|----------|------------------------|----------------|----------------|------|---------------|
| KL-0039-2010-1 | 2274418 | M10x1,25 | Pull Spindle | 395mm | - | 5t | mechanical |
| KL-0039-1910-1 | 2201534 | M10x1,25 | Pull Spindle | 590mm | 390mm | 5t | hydraulic 17t |
| KL-0039-2012-1 | 2361760 | M12 | Pull Spindle | 395mm | - | 7t | mechanical |
| KL-0039-1912-1 | 2201542 | M12 | Pull Spindle | 590mm | 390mm | 7t | hydraulic 17t |
| KL-0039-2014-1 | 2361884 | M14 | Pull Spindle | 395mm | - | 9t | mechanical |
| KL-0039-1914-5 | 2861259 | M14 | Pull Spindle | 470mm | 270mm | 9t | hydraulic 17t |
| KL-0039-1914-1 | 2360667 | M14 | Pull Spindle | 590mm | 390mm | 9t | hydraulic 17t |
| KL-0039-2016-1 | 2362120 | M16 | Pull Spindle | 395mm | - | 13t | mechanical |
| KL-0040-2241 | 2369826 | M16 | Pressure Spindle | 350mm | Ø 20,5 | 13t | hydraulic 10t |
| KL-0040-2242-1 | 2369850 | M16 | Pull Spindle | 590mm | 380mm | 13t | hydraulic 10t |
| KL-0039-1916-1 | 2360918 | M16 | Pull Spindle | 590mm | 390mm | 13t | hydraulic 17t |
| KL-0039-2018-1 | 2362252 | M18 | Pull Spindle | 395mm | - | 16t | mechanical |
| KL-0040-2545-1 | 2016885 | M18 | Pull Spindle | 650mm | 450mm | 16t | hydraulic 17t |
| KL-0039-2020-1 | 2694468 | M20 | Pull Spindle | 395mm | - | 20t | mechanical |
| KL-0039-1930 | 2088185 | M20 | Pressure Spindle | 350mm | Ø 20,5 | 20t | hydraulic 17t |
| KL-0039-1931 | 2088223 | M20 | Pressure Spindle | 405mm | Ø 20,5 | 20t | hydraulic 17t |
| KL-0040-3008 | 1751603 | M20 | Pull Spindle | 290mm | - | 20t | mechanical |
| KL-0039-2030 | 2362376 | M20 | Pull Spindle | 420mm | - | 20t | mechanical |
| KL-0039-1920-1 | 1984330 | M20 | Pull Spindle | 590mm | 390mm | 20t | hydraulic 17t |
| KL-0040-2846-1 | 2370972 | M20 | Pull Spindle | 590mm | 370mm | 20t | hydraulic 28t |
| KL-0040-2812-1 | 2370824 | M24 | Pull-/Pressure Spindle | 590mm | 370mm | 28t | hydraulic 28t |
| KL-0040-2841-1 | 2370948 | M24 | Pull Spindle | 650mm | 430mm | 28t | hydraulic 28t |

Quick-Action Clamping Nut

| KL-No. | Code | Thread | Type | Overall length |
|----------------|---------|----------|---------------------------|----------------|
| KL-0039-2110-2 | 2915286 | M10x1,25 | Quick-Action Clamping Nut | 35mm |
| KL-0039-2112-2 | 2915367 | M12 | Quick-Action Clamping Nut | 35mm |
| KL-0039-2114-2 | 2915502 | M14 | Quick-Action Clamping Nut | 35mm |
| KL-0039-2116-2 | 2915669 | M16 | Quick-Action Clamping Nut | 40mm |
| KL-0039-2120-2 | 2915758 | M20 | Quick-Action Clamping Nut | 40mm |



Clamping- / Pressure Nut

| KL-No. | Code | Thread | Type | Overall length |
|----------------|---------|----------|----------------------|----------------|
| KL-0039-1910-2 | 2360438 | M10x1,25 | Clamping Nut | 31mm |
| KL-0039-1912-3 | 2705664 | M12 | Clamping Nut | 15,5mm |
| KL-0039-1912-2 | 2360543 | M12 | Clamping Nut | 31mm |
| KL-0043-1105 | 1860739 | M14 | Clamping Nut | 17mm |
| KL-0039-1914-2 | 2360780 | M14 | Clamping Nut | 31mm |
| KL-0040-2543-2 | 1858629 | M14 | Clamping Nut | 31mm |
| KL-0039-1916-2 | 2361027 | M16 | Clamping Nut | 35mm |
| KL-0039-1916-3 | 2727633 | M16 | Clamping Nut | 65mm |
| KL-0039-1918-2 | 2361140 | M18 | Clamping Nut | 35mm |
| KL-0040-3009 | 1751611 | M20 | Clamping Nut | 50mm |
| KL-0041-3812 | 2372886 | M20 | Conical Clamping Nut | 70mm |
| KL-0039-1920-4 | 2361264 | M20 | Conical Clamping Nut | 80mm |
| KL-0040-2812-3 | 2370832 | M24 | Clamping Nut | 53mm |
| KL-0040-2812-2 | 2144700 | M24 | Conical Clamping Nut | 70mm |
| KL-0040-2812-5 | 3052346 | M24 | Clamping Nut | 73mm |



Use of Spindle Spindle, Quick-Action Clamping Nut, Clamping-/Pressure Nut



| Part No. | Thread | Drive (Spindle and Nut) | | | | | | | | | | | | | | | |
|----------------------------------|----------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------|--------------|--------------|--------------|--------------|--------------|
| | | Hydraulic Drive | | | | | | | | | | Mechanical Drive | | | | | |
| | | KL-0039-1910 | KL-0039-2110 | KL-0039-2112 | KL-0039-2114 | KL-0039-2116 | KL-0040-2242 | KL-0039-2120 | KL-0039-1920 | KL-0040-2812 | KL-0040-2841 | KL-0039-2210 | KL-0039-2212 | KL-0039-2214 | KL-0039-2216 | KL-0039-2018 | KL-0039-2220 |
| KL-0039-1910-1 | M10x1.25 | X | X | | | | | | | | | | | | | | |
| KL-0039-2010-1 | M10x1.25 | | | | | | | | | | X | | | | | | |
| KL-0039-1912-1 | M12 | | | X | | | | | | | | | | | | | |
| KL-0039-2012-1 | M12 | | | | | | | | | | | X | | | | | |
| KL-0039-1914-1 | M14 | | | | X | | | | | | | | | | | | |
| KL-0039-2014-1 | M14 | | | | | | | | | | | | X | | | | |
| KL-0039-1916-1 | M16 | | | | | X | | | | | | | | | | | |
| KL-0039-2016-1 | M16 | | | | | | | | | | | | | | X | | |
| KL-0040-2242-1 | M16 | | | | | | X | | | | | | | | | | |
| KL-0039-2018-1 | M18 | | | | | | | | | | | | | | | X | |
| KL-0039-1920-1 | M20 | | | | | | | X | X | | | | | | | | |
| KL-0039-2020-1 | M20 | | | | | | | | | | | | | | | | X |
| KL-0040-2812-1 | M24 | | | | | | | | | X | | | | | | | |
| KL-0040-2841-1 | M24 | | | | | | | | | | X | | | | | | |
| Quick-Action Clamping Nut | | | | | | | | | | | | | | | | | |
| KL-0039-2110-2 | M10x1.25 | | X | | | | | | | | X | | | | | | |
| KL-0039-2112-2 | M12 | | | X | | | | | | | | X | | | | | |
| KL-0039-2114-2 | M14 | | | | X | | | | | | | | X | | | | |
| KL-0039-2116-2 | M16 | | | | | X | | | | | | | | X | | | |
| KL-0039-2120-2 | M20 | | | | | | | X | | | | | | | | | X |
| Clamping Nut | | | | | | | | | | | | | | | | | |
| KL-0039-1910-2 | M10x1.25 | X | | | | | | | | | X | | | | | | |
| KL-0039-1912-2 | M12 | | | | | | | | | | | X | | | | | |
| KL-0039-1914-2 | M14 | | | | | | | | | | | | X | | | | |
| KL-0039-1916-2 | M16 | | | | | X | | | | | | | | X | | | |
| KL-0039-1918-2 | M18 | | | | | | | | | | | | | | | X (2) | |
| KL-0040-3009 | M20 | | | | | | | | X | | | | | | | | X |
| KL-0040-2812-3 | M24 | | | | | | | | | X | X | | | | | | |



KL-0040-2812-5 (Code 3052346)
Pressure Nut, M24, Ø 20.5mm



KL-0174-3701 (Code 3066096)
Thrust Piece, short

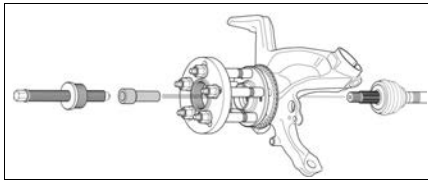
Suitable for Pressure Nut KL-0040-2812-5.

The thrust piece is needed to push cardan shafts out of the wheel hub.

Technical Data:

| | |
|-----------------|--------|
| Overall length: | 34.5mm |
| External Ø: | 30mm |
| Internal Ø: | 20.5mm |



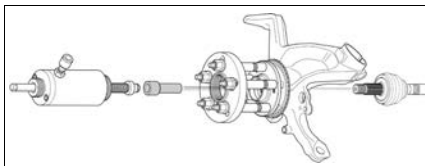


KL-0174-856

(Code 2328097)

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-0039-1935

(Code 2178990)

Thrust Piece

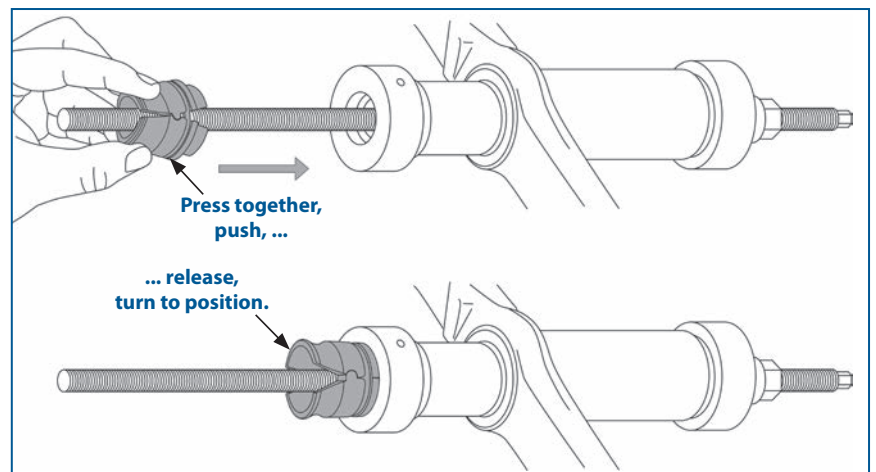
This tool is necessary for pressing out drive shafts. It is used in conjunction with the **KL-0174-.. Puller Series**, the **KL-0040-2500** hydraulic cylinder and the **KL-0039-1930** pressure spindle with pin Ø 20mm.

KL-0039-21.. QUICK-ACTION CLAMPING NUT

Universally suitable for the tools of the KL-0039-.. Series Wheel Bearing/Silenbloc Tool 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 with ease - simply by sliding them on the pull spindle without any rotational movement. This allows for short assembly/clamping times as well as for quick and easy adjustment and simple operation of the tool.

Note: To prevent the quick-release nut from opening under load, secure it by the collar together with a suitable pressure/support sleeve, an adapter, or a retaining ring.



5 pcs.

KL-0039-23 (Code 3022269) (German Utility Model)

Set of Quick-Action Clamping Nuts

Recommended Accessory:

KL-0039-2190 Retaining Ring for M10, M12 and M14 Quick-Action Clamping Nuts

KL-0039-2191 Retaining Ring for M16 and M20 Quick-Action Clamping Nuts

KL-0039-2192 Conical Adaptor for M20 Quick-Action Clamping Nut

Scope of Delivery:

KL-0039-23 Set of Quick-Action Clamping Nuts

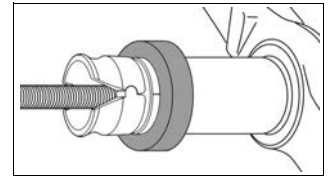
| Part No. | Description | Qty |
|----------------|-------------------------------------|-----|
| KL-0039-2110-2 | Quick-Action Clamping Nut, M10x1.25 | 1 |
| KL-0039-2112-2 | Quick-Action Clamping Nut, M12 | 1 |
| KL-0039-2114-2 | Quick-Action Clamping Nut, M14 | 1 |
| KL-0039-2116-2 | Quick-Action Clamping Nut, M16 | 1 |
| KL-0039-2120-2 | Quick-Action Clamping Nut, M20 | 1 |



KL-0039-2190 [Code 3087026]

Retaining Ring for M10, M12 and M14 Quick-Action Clamping Nuts

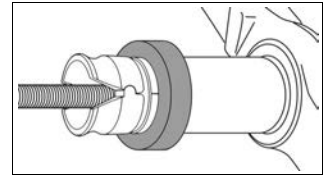
The retaining ring is needed when a quick-action clamping nut having either an M10, M12 or M14 retaining thread is to be used without the **KL-0039-1011** adaptor. Thanks to this ring, the respective clamping nut can quickly be adjusted on an M10, M12 or M14 pull spindle - simply by sliding it on the spindle without any rotational movement. This allows for short assembly/clamping times as well as for quick and easy adjustment and simple operation of the tool.



KL-0039-2191 [Code 3086992]

Retaining Ring for M16 and M20 Quick-Action Clamping Nuts

The retaining ring is needed when a quick-action clamping nut having either an M16 or M20 retaining thread is to be used without the **KL-0039-1002** adaptor. Thanks to this ring, the respective clamping nut can quickly be adjusted on an M16 or M20 pull spindle - simply by sliding it on the spindle without any rotational movement. This allows for short assembly/clamping times as well as for quick and easy adjustment and simple operation of the tool.



KL-0039-2192 [Code 3087034]

Conical Adaptor for M20 Quick-Action Clamping Nut

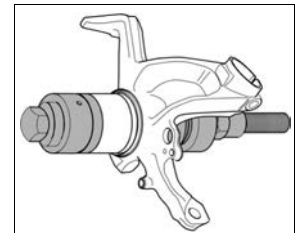
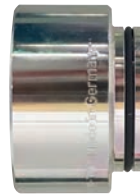
The conical adaptor allows the **KL-0039-2120-2** quick-action clamping nut to be quickly adjusted on the **KL-0039-1920-1** pull spindle - simply by sliding it on the spindle without any rotational movement. This allows for short assembly/clamping times, as well as quick and easy adjustment and simple operation of the tool. A very useful complement to the **KL-0041-380 EA** wheel hub puller and **KL-0041-740 E** wheel bearing tool set.



KL-0039-1011 [Code 2179202]

Retaining Adaptor for Mechanical Spindle

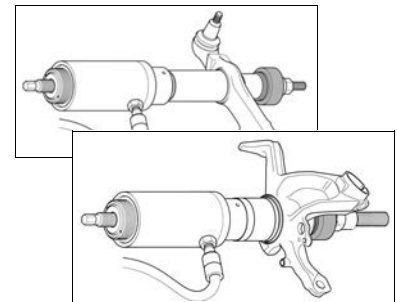
This adaptor is needed to use the mechanical drive in conjunction with the various press/support sleeves of the **KL-0039-...** and **KL-0043-... Series**. The built-in ball bearing allows for accurate and professional working, even under intensive load.



KL-0039-1002 [Code 1975447]

Retaining Adaptor, for Clamping Nut and Pressure Spindle

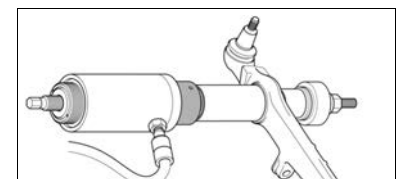
This adaptor is needed to use the clamping nut and pressure spindle in conjunction with the various press/support sleeves of the **KL-0039-...** and **KL-0043-... Series**. Retaining Ø for clamping nut or pressure spindle: 20mm.



KL-0039-1003 [Code 1975455]

Retaining Adaptor, for Hydr. Cylinder

This adaptor is needed to use the **KL-0040-2500** Hydraulic Cylinder in conjunction with the various press/support sleeves of the **KL-0039-...** and **KL-0043-... Series**.



Technical Data:

| | |
|--------------------|---------|
| Connection thread: | M42 x 2 |
|--------------------|---------|



4 pcs.



Technical Data:

| | |
|-------------------------|-------|
| Length of Pull Spindle: | 420mm |
| Load max.: | 20t |

Scope of Delivery:

KL-0039-801 C Mechanical Drive for Wheel Hub Tools

| Part No. | Description | Qty |
|----------------|--|-----|
| KL-0039-2030 | Pull Spindle M20 | 1 |
| KL-0039-2120-2 | Quick-Action Clamping Nut M20 | 1 |
| KL-0039-1002 | Retaining adapter for clamping nut M20 with O-Ring | 1 |
| KL-0039-1011 | Retaining adapter for mechanical spindle | 1 |

KL-0039-801 C

(Code 3290255)

Mechanical Drive for Wheel Hub Tools

Mechanical drive for the wheel hub and wheel bearing tool kits **KL-0039-.. series**, **KL-0041-4. series**, and **KL-0041-380 A**.

The mounting adapter with integrated ball bearing, which is included in the kit, enables simple and force-optimised working.

The special quick-release nut allows the adjustment on the draw spindle without a rotary movement but only by sliding.

This results in very short assembly or clamping times as well as simple and fast operation or adjustment.

Note:

- To prevent the quick-release nut from opening under load, secure it by the collar together with a suitable pressure/support sleeve, an adapter, or a retaining ring.
- To drive **KL-0041-380 A**, only the spindle - **KL-0039-2030**, and the mounting adapter - **KL-0039-1011** are required.



2 pcs.

KL-0040-2592

(Code 2370638)

Safety Belt for Mechanical Pulling Devices

Thanks to the safety belt which is fastened to the vehicle and to a mechanical pulling device from the **KL-0039-..Series**, the latter can be secured against 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 |



3 pcs.

KL-0174-911

(Code 2405504)

Upgrade Kit (Drive Shaft Removal)

Designed to press out drive shafts. The kit is used with a puller of the **KL-0174-.. Series** and the Hydraulic Cylinder **KL-0040-2500**. By the use of the 17t hydraulic cylinder even bonded or very heavily seized drive shafts can be pressed out quickly and without any trouble.

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 |



4 pcs.

KL-0039-802

(Code 2173921)

Hydraulic Drive Kit without Hydr. Cyl.

This kit is designed to hydraulically operate the wheel bearing tool sets of the **KL-0039-... Series** 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.

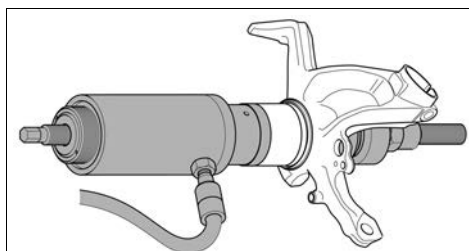
Required Drive Parts:

KL-0040-2500 Hydraulic Cylinder 17t, **KL-0215-35 M25** Hydraulic Pump

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-0039-1920-1 | Pull Spindle M20 | 1 |
| KL-0040-3009 | Clamping Nut M20 | 1 |



Hydraulic Cylinder 10t + Accessories

KL-0040-2200 (Code 2369540)

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.

Necessary Drive Parts: KL-0215-35 M22 Hydraulic Pump

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 |

10 t



Range of Use:

In conjunction with various GEDORE Automotive tools, the hydraulic cylinder can be used for the removal and installation of drive shafts, silentblobs and suspension ball joints.

KL-0215-35 M22 (Code 2478641)

Hydraulic Hand Pump

The **KL-0215-35 M22** hydraulic hand pump is designed to be used as a drive for the hydraulic cylinders **KL-0040-2200**.

When operating the pump, the hydraulic pressure and necessary force can be monitored at pressure gauge (supplied with the tool set). The pressure gauge features an additional tonne scale specifically adapted to our hydraulic cylinder (10t).

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 |

5 pcs.

10 t



Technical Data:

| | |
|----------------|--------|
| Weight: | 5kg |
| Max. pressure: | 700bar |

KL-0040-2229 (Code 2369818)

Pressure Gauge for KL-0040-2200, with 1/4" NPT Connection Thread

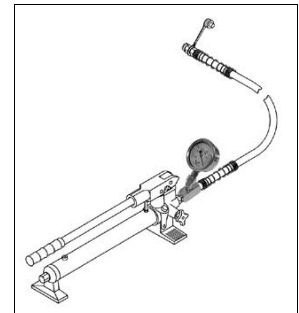
Suitable for KL-0215-33.

The pressure gauge can be screw-connected between the hydraulic pump and the hydraulic 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 |

10 t

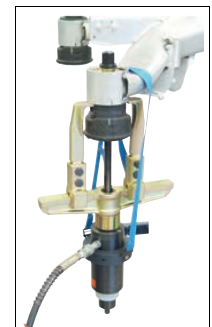


KL-0040-2290 (Code 2238985)

Safety Belt for Hydraulic Cylinder (10t)

Thanks to the **KL-0040-2290** safety belt which is fastened to the vehicle and the **KL-0040-2200** hydraulic cylinder, the latter can be secured against falling.

10 t



Hydraulic Cylinder 17t + Accessories

6 pcs.

17t

KL-0040-175 B

(Code 2933292)

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 EA** and a hydraulic pump equipped with a GEDORE Automotive pressure gauge. The hydraulic cylinder with shoulder nut 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 of the hydraulic pump allows the applied force to be monitored during the extraction process. The safety belt included in the kit is fixed to the vehicle and to the hydraulic cylinder to secure the latter against falling.

Necessary Accessories: **KL-0215-35 M25** Hydraulic Pump

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 |

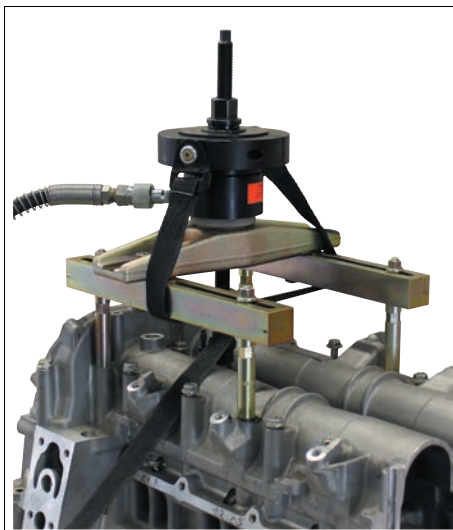
Technical Data: KL-0583-1032 H

| | |
|--------------------|---------|
| 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-0040-1700 | Hydraulic Cylinder, 17t (short design) | 1 |
| KL-0040-1741-2 | Shoulder Nut, M16x1.5 | 1 |
| KL-0040-1790 | Safety Belt | 1 |
| KL-0583-1005 HA | Pull Spindle, M17x1, with Nut, 315mm long | 1 |
| KL-0583-1032 H | Pull Spindle, M14x1.5, 315mm long | 1 |



17t

KL-0040-2500

(Code 1751441)

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 spindle (available separately as accessories).

Necessary Drive Parts:

KL-0215-35 M25 Hydraulic Pump

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 17t hydraulic cylinder **KL-0040-2500** can be used for the removal and installation of drive shafts, wheel hubs, wheel bearings, silentblocs and suspension ball joints.

KL-0215-35 M25 (Code 2478641)

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-0040-1700** (included in **KL-0040-175 B**) respectively.

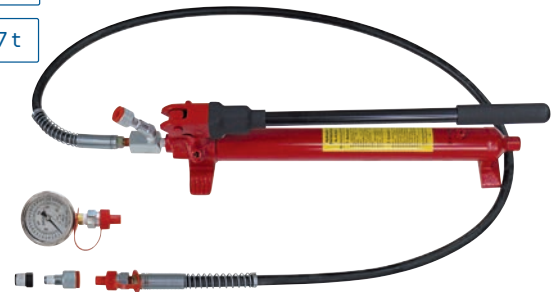
When operating the pump, the hydraulic pressure and necessary force can be monitored at pressure gauge (supplied with the tool set). The pressure gauge features an additional tonne scale specifically adapted to our hydraulic cylinder (17t).

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 |

5 pcs.

17 t



Technical Data:

| | |
|----------------|--------|
| Weight: | 7.5kg |
| Max. pressure: | 700bar |

KL-0215-36 M25 (Code 2478706)

Hydraulic Pump (Pneumatic)

The pneumatic hydraulic pump **KL-0215-36 M25** can be used to drive a hydraulic cylinder.

Compressed air is used to power the hydraulic pump.

The pump is operated by a foot pedal with 3 functions for: advance/hold/retract.

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 |

5 pcs.

17 t



Technical Data:

| | |
|---------------------|----------|
| Maximum Pressure: | 700 bar |
| Operating Pressure: | 8-12 bar |
| Weight: | 8kg |

KL-0040-2529 (Code 1751484)

Pressure Gauge for KL-0040-2500, with 1/4" NPT Connection Thread

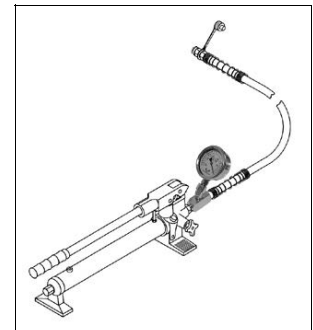
Intended for use with KL-0215-33.

The pressure gauge is designed to be screw-fitted between the hydraulic pump and the hydraulic 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** and **KL-0040-1700**.

Technical Data:

| | |
|--------------------|----------|
| Measuring Range: | 1,000bar |
| Pressure Gauge Ø: | 71mm |
| Connection Thread: | 1/4" NPT |

17 t

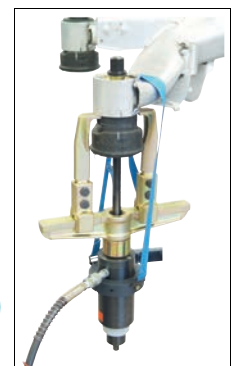


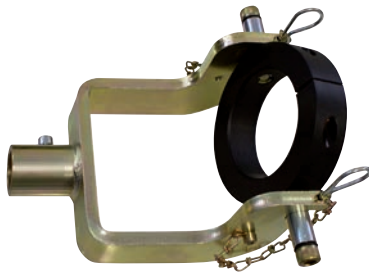
KL-0040-2590 (Code 1804073)

Safety Belt for Hydraulic Cylinder (17t) KL-0040-2500

Thanks to the **KL-0040-2590** safety belt which is fastened to the vehicle and to the **KL-0040-2500** hydraulic cylinder, the latter can be secured against falling.

17 t





17t

KL-0040-258 A

(Code 2707497)

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.

Recommended Accessory:

KL-0040-2881 Clamp Ring

(to extend the use of the device to Hydraulic Cylinder **KL-0040-2800**)

KL-0040-2571 Adaptor Sleeve, Ø 25mm

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 |



17t

KL-0040-2571

(Code 2915103)

Adaptor Sleeve, Ø 25mm

This adaptor is needed to use the retaining device **KL-0040-258 A** or the supporting device for control arm **KL-0145-120 A** in conjunction with a transmission jack having a plunger with Ø of 25mm.



Hydraulic Cylinder 28t + Accessoires



28t

KL-0040-2800

(Code 2016893)

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 as well as pushing operations, in conjunction with the corresponding spindles available as accessories.

Range of Applications:

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.

Required Accessories:

KL-0215-35 M28 Hydraulic Pump

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-0215-35 M28 (Code 2478676) Hydraulic Hand Pump

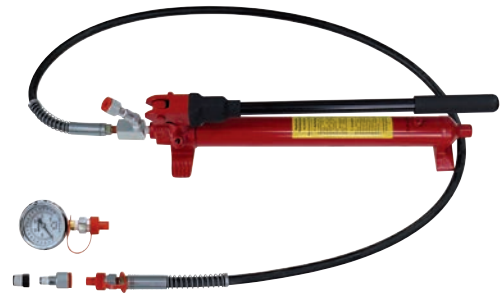
The **KL-0215-35 M28** hydraulic hand pump is designed to be used as a drive for the hydraulic cylinder **KL-0040-2800**. While operating the pump, the hydraulic pressure and necessary force can be monitored at pressure gauge (supplied with the tool set). The pressure gauge features an additional tonne scale which is specifically adapted to our 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 |

5 pcs.

28 t



Technical Data:

| | |
|----------------|--------|
| Weight: | 7.5kg |
| Max. Pressure: | 700bar |

KL-0215-36 M28 (Code 2478730) Hydraulic Pump (Pneumatic)

The pneumatic hydraulic pump **KL-0215-36 M28** is designed to be used as a drive for hydraulic cylinder. 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 M28 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-0127-1002 | Fitting | 1 |
| KL-0040-2829 | Pressure Gauge | 1 |

5 pcs.

28 t



Technical Data:

| | |
|---------------------|---------|
| Maximum Pressure: | 700bar |
| Operating Pressure: | 8-12bar |
| Weight: | 8kg |

KL-0040-2829 (Code 2231301) Pressure Gauge for KL-0040-2800, with 1/4" NPT Connection Thread

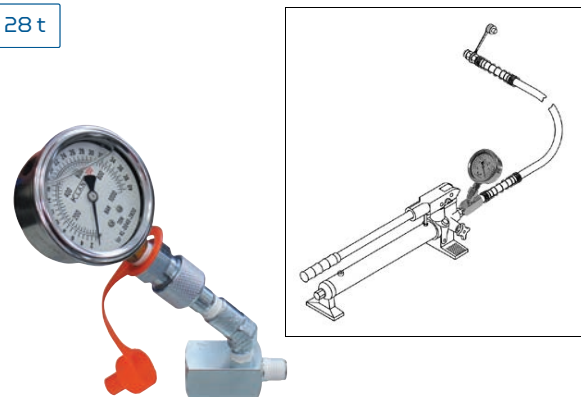
Suitable for KL-0215-33.

The pressure gauge can be screw-connected between the hydraulic pump and the hydraulic 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 |

28 t



KL-0040-2890 (Code 2371049) Safety Belt for Hydraulic Cylinder (28t) KL-0040-2800

Thanks to the **KL-0040-2890** safety belt which is fastened to the vehicle and the **KL-0040-2800** hydraulic cylinder, the latter can be secured against falling.

28 t





28 t

KL-0040-2881 [Code 2922843]

Clamp Ring for Hydraulic Cylinder KL-0040-2800

The **KL-0040-2881** clamp ring is needed for using the **KL-0040-2800** Hydraulic Cylinder.

Required Accessory:
KL-0040-258 A Retaining Device for Hydraulic Cylinder



KL-0040-2520 [Code 1787136]

Adaptor, 3/8", NPT to 1/4" NPT

Suitable for GEDORE Automotive, Longus, Rodcraft etc.

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 the 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-0215-321 [Code 1880462]

Coupling Half, 1/4" (Hose Side)

Technical Data:

| | |
|-----------|------|
| Coupling: | 1/4" |
|-----------|------|



KL-0215-322 [Code 1787241]

Coupling Half, (Cylinder Side)

Technical Data:

| | |
|-----------|------|
| Coupling: | 1/4" |
|-----------|------|



4 pcs.

KL-0039-1161 E [Code 2842777]

Press Frame Kit, without Drive, in a Foam Insert

Universally suitable.

Indispensable kit for pressing in and pressing out (mechanical or hydraulic) suspension ball joints, bushings etc. Used in conjunction with the tools of the **KL-0039-..Series**.

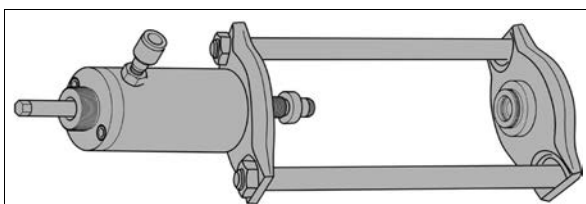
Technical Data:

| | |
|-----------------------------|---------------|
| Inner width: | 115mm |
| Inner length 1: | 275mm |
| Inner length 2: | 350mm |
| Maximum load capacity: | 12t |
| Cylinder connection thread: | 2 1/4"-14 UNS |

Scope of Delivery:

KL-0039-1161 E Press Frame Kit, without Drive, in a Foam Insert

| Part No. | Description | Qty |
|--------------|---|-----|
| KL-0039-1140 | Press Frame (Lightweight, Short Design) | 1 |
| KL-0039-1153 | Press Frame Rod, M18, 375mm long | 2 |
| KL-4999-1318 | Foam Insert for Press Frame Kit | 1 |



KL-0039-1140 (Code 2178923)

Press Frame (Lightweight, Short Design)

Universally applicable.

Short design, without drive.

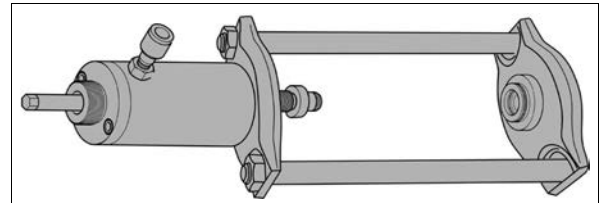
Recommended Accessory: KL-0039-115 Frame Bars (Pair), 350mm long

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 |



KL-0039-1144 V (Code 2178923)

Base Plate 2 1/4"-14 UNS Reinforced

By replacing the two base plates on the press frame **KL-0039-1140** with the reinforced version **KL-0039-1144 V**, it can easily be loaded up to 17t.



KL-0039-115 (Code 2293889)

Frame Bars (Pair), 350mm long, with Hex Nuts

Used to adjust the press frame **KL-0039-1140** to an internal length of 350mm. Required, for example, when using a long press sleeve and a long support sleeve of the **KL-0039-17.. Series**.

Scope of Delivery: KL-0039-115 Frame Bars (Pair), 350mm long, with Hex Nuts

| Part No. | Description | Qty |
|--------------|------------------------------|-----|
| KL-0039-1153 | Frame Bar, M18, 375mm (long) | 2 |
| KL-0049-3004 | Hex Nut, M18 | 2 |

6 pcs.



KL-0326-1000 (Code 1859528)

Press Frame

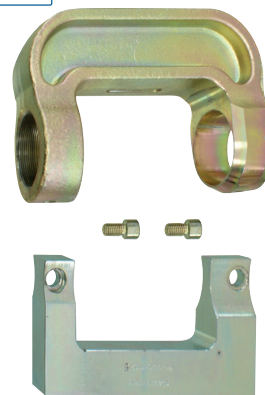
Universally applicable.

The press frame, in conjunction with the appropriate sleeve set and the necessary drive parts, enables the rapid removal and installation of silent blocks and support/guide joints directly on the vehicle. Time-consuming dismantling of the corresponding component is not necessary for this. Together with a pressure spindle, the special press frame makes the use of a draw spindle superfluous.

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-0326-1003-1 | Cheese Head Screw, M12x20 | 2 |

4 pcs.



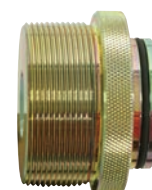
KL-0039-1105 (Code 2197596)

Adaptor with O-Ring, 2 1/4"-14 UNS to Ø 30mm

This adaptor is needed to use the various press/support sleeves of the **KL-0039-.. Series** in conjunction with a press frame of the **KL-0039-.. Series**.

Technical Data:

| | |
|---------|-------------------------|
| Thread: | 2 1/4"-14 UNS to Ø 30mm |
|---------|-------------------------|



Retaining thread of hydraulic cylinder



Retaining thread of tool set

KL-0040-2855

[Code 2371030]

Adaptor, 2 1/4"-14 UNS to 2 3/4"-16 UN

The adaptor is needed to use the **KL-0040-2800** hydraulic cylinder (or any other hydraulic cylinder having a 2 3/4"-16 UN retaining thread) as a drive for the GEDORE Automotive hydraulic tools featuring a 2 1/4"-14 UNS thread.

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

Technical Data:

| | |
|------------------|---------------|
| External thread: | 2 1/4"-14 UNS |
| Internal thread: | 2 3/4"-16 UN |

Retaining thread of hydraulic cylinder



Retaining thread of tool set

KL-0174-559

[Code 1753711]

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.

Note: Other dimensions available upon request.

Technical Data:

| | |
|------------------|---------------|
| External thread: | 2 1/4"-14 UNS |
| Internal thread: | 2 1/4"-14 UNS |



KL-4999-120 A

[Code 3254313]

MODULO Workshop Trolley/Workbench, 4 Drawers

The sturdy **MODULO KL-4999-120 A** workshop trolley/workbench (GEDORE 1507 XL) features a large, solid (30mm thick) beech multiplex worktop and four full-width drawers. Designed as a modular concept, it offers various options for different applications. For example, combined with the **KL-5501 B** stationary spring compressor and the wheel bearing/silentbloc tools/modules of our **KL-0039-Series**, it will provide you with a professional and mobile workplace for proper and cost-effective chassis and axle repairs/maintenance work in situ on or next to the vehicle. The sturdy overall design of the trolley/workbench with a specially reinforced side wall allows for quick, easy and stable attachment of the **KL-5501 B** spring compressor to the workbench. For this, the **KL-5501-211 MODULO Mounting Kit** is needed in addition.

Body:

- Dimensions: H 985 x W 1200 x D 635mm
- Beech multiplex worktop: 30mm thick, surface additionally protected by linseed oil varnish
- Worktop rear overhang allows the trolley to be parked flush against a wall
- Drawer block extends over the entire width of the trolley.
- Lateral handle allows for smooth movement and high mobility of the trolley
- Both side walls provided with Euro-standard 10 x 38mm square perforation to accept hooks and holders for the efficient storage of tools
- Sheet steel, corrosion-resistant and scratch-proof powder-coated, GEDORE blue

Drawers:

- Version with 4 drawers
- Central locking with cylinder lock
- Wide drawers (W 998mm x D 474mm), fully extendable, removable
- One-drawer-at-a-time" interlock mechanism, one-hand operation
- Ball-bearing slides with soft-close mechanism
- Load capacity per drawer: 70kg
- Sheet steel, corrosion-resistant and scratch-proof powder-coated, GEDORE blue

GEDORE high-performance chassis:

- Total load capacity in stationary use: 700kg, in mobile use: 500kg
- 2 GEDORE high-performance wheels on roller bearings (fixed castors with 200mm Ø)
- 2 GEDORE smooth-running wheels on ball bearings (swivel castors with 125mm Ø), both with total brake
- The GEDORE trapezoidal axle construction ensures smooth running of the wheels, good manoeuvrability and directional stability of the mobile workbench even at maximum load.

Possible Options:

- Can be equipped with GEDORE tool modules (1500 ES/1500 CT), max. 9 x 1/3 modules per drawer are possible
- More drawer variants available upon request
- Special colours and designs available upon request
- Supplied without tools and accessories



Spring compressor **KL-5501** not included in the scope of delivery.

Technical Data:

| | |
|----------------------------------|--------------------------|
| Dimensions: | W 1200 x H 985 x D 635mm |
| Worktop: | W 1200 x H 30 x D 635mm |
| Drawer (1x): | W 998 x H 90 x D 474mm |
| Drawer (2x): | W 998 x H 145 x D 474mm |
| Drawer (1x): | W 998 x H 195 x D 474mm |
| Max. load per drawer: | 70kg |
| Steering castor with brake (2x): | Ø 125mm |
| Fixed castor (2x): | Ø 200mm |
| Max. load (total): | 700kg |
| Max. load (movable): | 500kg |
| Weight: | 125kg |

Recommended Accessory:

KL-4999-1204 Drawer Divider Set, Hand Tools,
KL-4999-1205 Drawer Divider 80mm

KL-4999-121 A (Code 3254321) MODULO Workshop Trolley/Workbench, 5 Drawers

Description as for KL-4999-120 A, but with 5 drawers.

Technical Data:

| | |
|----------------------------------|---------------------------|
| Dimensions: | W 1200 x H 985 x D 635mm |
| Worktop: | W 1200 x H 30 x D 635mm |
| Drawer (4x): | W 998 x H 90mm x D 474mm |
| Drawer (1x): | W 998 x H 195mm x D 474mm |
| Drawer (1x): | W 998 x H 195mm x D 474mm |
| Max. load per drawer: | 70kg |
| Steering castor with brake (2x): | Ø 125mm |
| Fixed castor (2x): | Ø 200mm |
| Max. load (total): | 700kg |
| Max. load (movable): | 500kg |



Recommended Accessory:
KL-4999-1204 Drawer Divider Set, Hand Tools,
KL-4999-1205 Drawer Divider 80mm

KL-4999-1204 (Code 3256073) MODULO Drawer Divider Set (5-pc.), Hand Tools

This 5-piece drawer divider set is specifically designed for drawers with slotted profiles as found on the MODULO KL-4999-120 A and KL-4999-121 A workshop trolley/workbench. Get your hand tools perfectly organised - simply by adapting the drawer space to its contents with these dividers. The following drawers feature specially slotted profiles allowing for easy and tools-free installation of the drawer dividers:

- The top drawer on **MODULO KL-4999-120 A**
- The four upper drawers on **MODULO KL-4999-121 A**

5 pcs.



KL-4999-1205 (Code 3256081) MODULO Drawer Divider, 80mm, with Screws

This divider is fitted to the drawer with the screws provided. Combined with the drawer inserts for our specialist tools, it helps you get the contents of the drawer clearly arranged in the MODULO KL-4999-120 A and KL-4999-121 A workshop trolley/workbench.



KL-4990-200... Plastic Storage Box

Universally applicable.

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 (Code 2802074)

Dimensions:

| | |
|--------|-------------|
| Inner: | 107x53x18mm |
|--------|-------------|

KL-4990-2002 (Code 2836750)

Dimensions:

| | |
|--------|-------------|
| Inner: | 107x53x40mm |
|--------|-------------|

KL-4990-2003 (Code 2911094)

Dimension:

| | |
|--------|-------------|
| Inner: | 138x82x27mm |
|--------|-------------|





KL-4990-9222



KL-4990-9274



KL-4990-9322



KL-4990-9372



KL-4990-9472

KL-4990-9...

[Code 3273423]

Plastic Case

Fits many tools with foam insert.

Sturdy, stackable plastic case with a handy carrying handle for safe storage of your tools. The foam insert in the lid safely protects the contents from damage.

KL-4990-9222

[Code 3273423]

Technical Data:

| | |
|----------------------------------|------------------|
| External dimensions (W x H x D): | 238 x 198 x 54mm |
| Inner dimensions (W x H x D): | 223 x 140 x 41mm |

KL-4990-9224

[Code 3271099]

Technical Data:

| | |
|----------------------------------|------------------|
| External dimensions (W x H x D): | 238 x 198 x 74mm |
| Inner dimensions (W x H x D): | 223 x 140 x 61mm |

KL-4990-9272

[Code 3273458]

Technical Data:

| | |
|----------------------------------|------------------|
| External dimensions (W x H x D): | 290 x 254 x 64mm |
| Inner dimensions (W x H x D): | 272 x 189 x 51mm |

KL-4990-9274

[Code 3273466]

Technical Data:

| | |
|----------------------------------|------------------|
| External dimensions (W x H x D): | 290 x 254 x 89mm |
| Inner dimensions (W x H x D): | 272 x 189 x 76mm |

KL-4990-9322

[Code 3272583]

Technical Data:

| | |
|----------------------------------|------------------|
| External dimensions (W x H x D): | 340 x 286 x 74mm |
| Inner dimensions (W x H x D): | 321 x 215 x 61mm |

KL-4990-9324

[Code 3273571]

Technical Data:

| | |
|----------------------------------|-------------------|
| External dimensions (W x H x D): | 340 x 286 x 104mm |
| Inner dimensions (W x H x D): | 321 x 215 x 91mm |

KL-4990-9372

[Code 3273628]

Technical Data:

| | |
|----------------------------------|-------------------|
| External dimensions (W x H x D): | 391 x 304 x 104mm |
| Inner dimensions (W x H x D): | 370 x 231 x 91mm |

KL-4990-9374

[Code 3273636]

Technical Data:

| | |
|----------------------------------|-------------------|
| External dimensions (W x H x D): | 391 x 304 x 134mm |
| Inner dimensions (W x H x D): | 370 x 231 x 121mm |

KL-4990-9472

[Code 3273644]

Technical Data:

| | |
|----------------------------------|-------------------|
| External dimensions (W x H x D): | 494 x 402 x 116mm |
| Inner dimensions (W x H x D): | 470 x 320 x 100mm |

KL-4990-9474

[Code 3273660]

Technical Data:

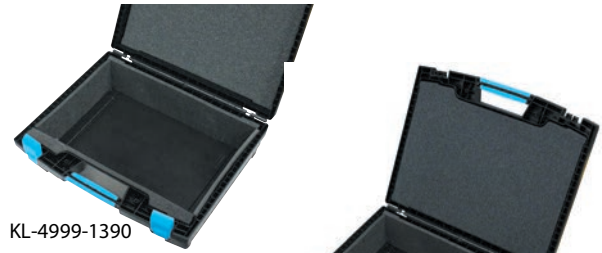
| | |
|----------------------------------|-------------------|
| External dimensions (W x H x D): | 494 x 402 x 156mm |
| Inner dimensions (W x H x D): | 470 x 320 x 141mm |

KL-4999-1390

[Code 2840537]

Storage Case with Insert (without tools)

Outer dimension: 500x420x175mm.
Foam lid insert 20mm.



KL-4999-1390

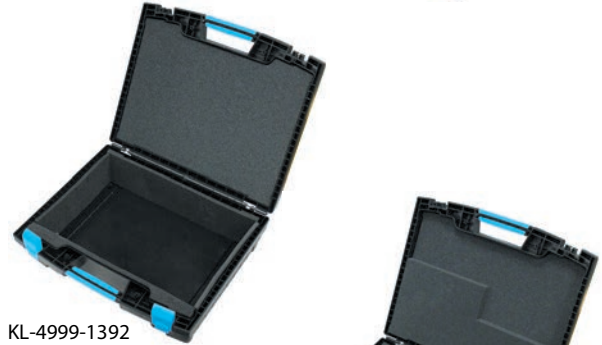
KL-4999-1391

KL-4999-1391

[Code 2840553]

Storage Case with Insert (without tools)

Outer dimension: 500x420x175mm.
Foam lid insert 50mm.



KL-4999-1392

KL-4999-1393

KL-4999-1392

[Code 2840588]

Storage Case with Insert (without tools)

Outer dimension: 500x420x175mm.
Foam lid insert 45mm.



KL-4999-1392

KL-4999-1393

KL-4999-1393

[Code 2840618]

Storage Case with Insert (without tools)

Outer dimension: 500x420x175mm.
Foam lid insert 50mm with cut-out (25mm).



KL-4999-1394

KL-4999-1395

KL-4999-1394

[Code 2909383]

Storage Case with Insert (without tools)

Outer dimension: 500x420x125mm.
Foam lid insert 50mm.



KL-4999-1394

KL-4999-1395

KL-4999-1395

[Code 2909421]

Storage Case with Insert (without tools)

Outer dimension: 575x420x205mm.
Foam lid insert 60mm.



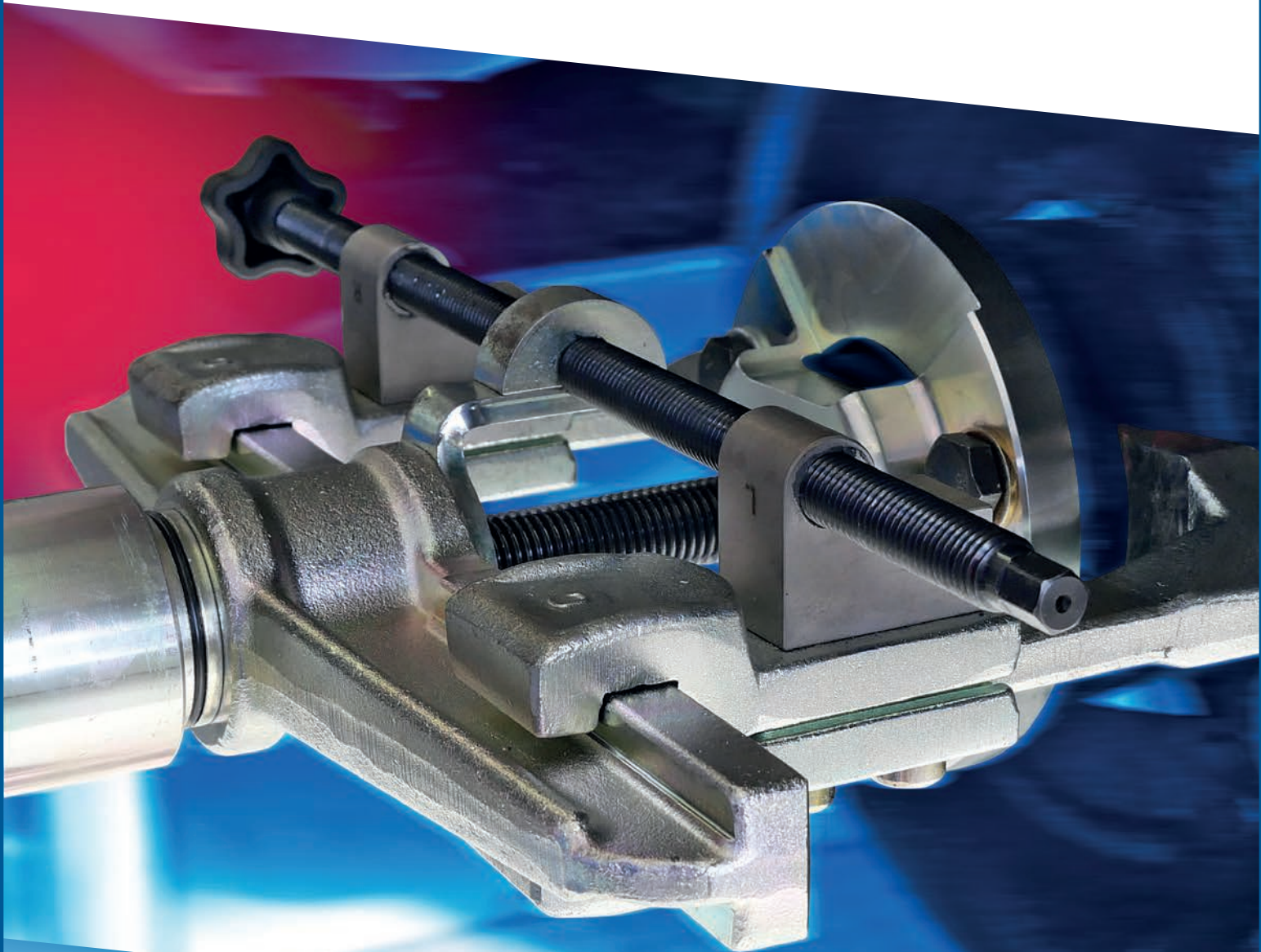
KL-4999-1396

KL-4999-1396

[Code 2909456]

Storage Case with Insert (without tools)

Outer dimension: 575x420x205mm.
Foam lid insert 30mm with projection (30mm).



MISSION: KLANN POSSIBLE

Sicheres Arbeiten. Zeitersparnis. Durchdachte Werkzeuge.

NEUHEITEN 2022/23

OPERATION BOARD

Made in Germany



TIME SAVING

These tools especially save time and thus real money.



SAFE WORK

With these tools, the focus is particularly on safety during use



ONLY FROM GEDORE

These tools are protected by us by patent, utility model, or design patent



MATERIAL-PROTECTING

These tools protect vehicle of spare parts from damage during removal and installation



COMMERCIAL VEHICLES

These tools are especially developed and suited for the use on commercial vehicles



TRANSPORTERS

These tools are especially developed and suited for the use on transporters



PASSENGER CARS

These tools are especially designed and suitable for use on passenger cars

KL-0080-1 K

WIRING HARNESS REPAIR KIT

with consumables

Made in Germany



Universally suitable for common cable / plug connections on vehicles and trailers. For connection with and without single conductor seal (ELA).

- For professional maintenance of cable / plug connections
- Extensive and robust assortment
- Can also be expanded in the future as desired through the interchangeable insert system
- For damage-free release from the connector housing
- For exact stripping also for cables with slippery PVC isolation
- Perfect crimping result ex works
- Crimping process must be completely executed in order to be able to open the pliers again

NEW

1047 parts

| Code | No. | for connector systems | Unlocking inserts | Stripping inserts | Crimping inserts | Quantity per contact |
|---------|-------------|--|-------------------|-------------------|------------------|----------------------|
| 3429814 | KL-0080-1 K | DTM/DT twisted (0.5-2.1 mm ²) JPT (0.2-2.5 mm ²) MCP-2.8 (0.2-1.0 mm ²) MQS (0.08-0.75 mm ²) SuperSeal-1.5 (0.35-2.5 mm ²) | 7 pcs | 2 pairs | 11 pcs | 25 pcs |

KL-0080-11 K

REPAIR KIT

for FAKRA plug connections

Universally suitable for FAKRA cable / plug connections (RTK031 and RG174).

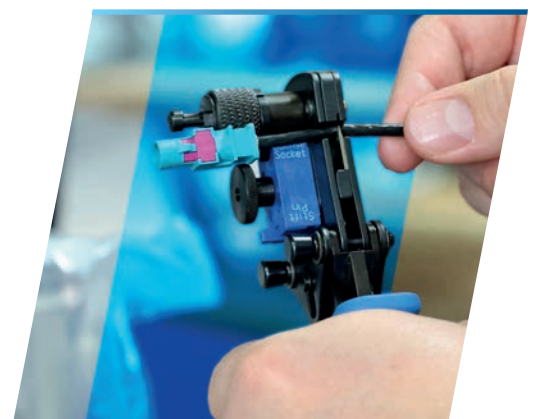
- For professional stripping, crimping and maintenance of FAKRA cable / plug connections
- No time-consuming replacing of the complete FAKRA coaxial cable

NEW

68 parts



Made in Germany

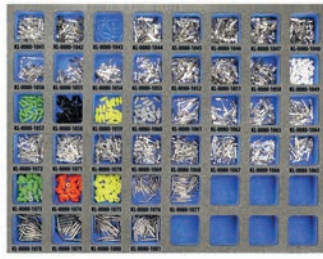
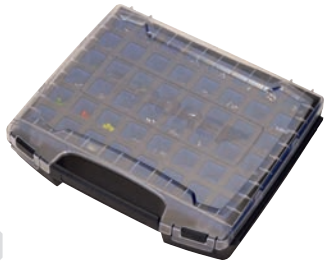


| Code | No. | Cable diameter (RTK031) | Cable diameter (RG174) | Crimping inserts | Stripping inserts | Quantity per connector housing | Quantity per contact |
|---------|--------------|-------------------------|------------------------|------------------|-------------------|--------------------------------|----------------------|
| 3424634 | KL-0080-11 K | 3.2 mm | 2.8 mm | 2 piece | 2 piece | 5 piece | 10 piece |

KL-0080-104 K

CONTACT ASSORTMENT

in case



Made in Germany



Universally suitable for common cable/plug connections on vehicles and trailers.

- Extensive assortment of the most common contractors and sealings

NEW

1025 parts

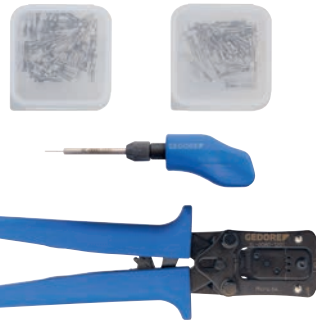
| Code | No. | Content | Quantity per contact | Storage |
|---------|---------------|--|----------------------|-----------|
| 3422984 | KL-0080-104 K | DTM/DT twisted (0.5-2.1 mm ²), JPT (0.2-2.5 mm ²), MCP-2.8 (0.2-1.0 mm ²), MQS (0.08-0.75 mm ²), SuperSeal-1.5 (0.35-2.5 mm ²) | 25 pcs | in i-Boxx |

KL-0080-12 K

CRIMPING TOOL KIT

StreetScooter

NEW



Made in Germany



Fits universally for "Micro 64" cable/plug connections.

- Installed in StreetScooter.
- For professional maintenance of cable/plug connections
- For damage-free release from the connector housing
- Perfect crimping results as ex works
- Crimping process must be completely executed in order to open the pliers again

54 parts

| Code | No. | for connector systems | Crimping inserts | Unlocking inserts | Quantity per contact | Storage |
|---------|--------------|--------------------------------------|------------------|-------------------|----------------------|---------|
| 3426416 | KL-0080-12 K | Micro 64 (0,35-0,8 mm ²) | 1 piece | 1 piece | 25 piece | in case |

KL-0080-123

SUPPLEMENTARY KIT MICRO 64

Fits universally for "Micro 64" cable/plug connections (0.35- 0.8 mm²).

- Installed in StreetScooter
- In combination with KL-0080-1 K / -10 K

NEW



52 parts

| Code | No. | for connector systems |
|---------|-------------|--------------------------------------|
| 3448169 | KL-0080-123 | Micro 64 (0.35-0.8 mm ²) |

KL-0080-130

SUPPLEMENTARY KIT MICROTIMER

Fits universally for „MicroTimer 2/3" cable/plug connections (0.2- 1.0 mm²).

- Installed in various sensors and actuators, e. g. camshaft actuator, lighting, wear indicator
- For connection with and without single conductor seal (ELA)
- In combination with KL-0080-1 K / -10 K

NEW



278 parts

| Code | No. | for connector systems |
|---------|-------------|---|
| 3448320 | KL-0080-130 | MicroTimer 2/3 (0.2-1.0 mm ²) |

KL-0080-131

SUPPLEMENTARY KIT MCP 1.5K



203 parts

| Code | No. | for connector systems |
|---------|-------------|-------------------------------------|
| 3448460 | KL-0080-131 | MCP 1.5K (0.2-1.5 mm ²) |

Made in Germany



Fits universally for „MCP 1.5K" cable/plug connections (0.2- 1.5 mm²).

- Installed in various sensors, actuators, and control units, e. g. engine control unit, gearbox control unit, comfort control unit
- For connection with and without single conductor seal (ELA)
- In combination with KL-0080-1 K / -10 K

NEW

KL-0870-10 K

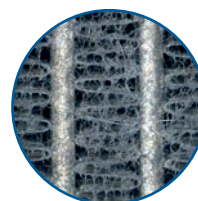
CLEANING VIDEOSCOPE

NEW

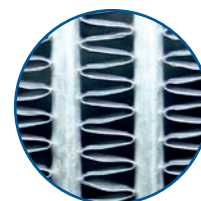


Universally applicable on cars, vans, commercial vehicles, buses, construction machinery, agricultural machinery.

- Enables the localisation and targeted removal of contamination.
- The transversely mounted camera with LED illumination and cleaning nozzle reaches even hard-to-reach places, e.g. the evaporator of the air-conditioning system.
- Slim camera unit Ø15x23 mm with powerful cleaning nozzle
- Dust- and water-proof lens with adjustable LED illumination
- For standard compressed air connection with 6 - 8 bar
- 250 ml container for cleaning fluids
- Live viewing via 3.5" colour display with zoom, rotate and mirror function
- Photo and video documentation with date/time stamp
- Incl. 8 GB microSD card and powerful 3.7 V lithium-polymer battery (1650mAh)
- Direct playback of photos and videos on the display



before



after

4parts

| Code | No. | Display | Resolution | Cable diameter (max.) | Length, cable | Filling quantity | View angle | Operating pressure |
|---------|--------------|---------|------------|-----------------------|---------------|------------------|------------|--------------------|
| 3444929 | KL-0870-10 K | 3.5" | 1280 x 720 | 23 mm | 80 cm | 250 ml | 80° | 6 - 8 bar |

KL-0880-10 K

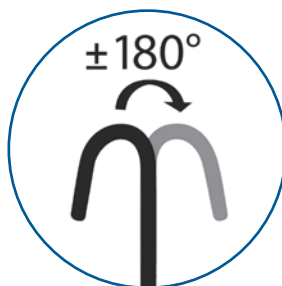
MICRO VIDEOSCOPE

Ø 3.9 mm



Universally applicable on cars, vans, commercial vehicles, buses, construction machinery, agricultural machinery.

- Enables quick and easy inspection of extremely difficult-to-access components
- For professional damage analysis on engines, transmissions, intake systems, etc.
- Extremely slim Ø 3.9 mm micro camera with 1280x720 pixels
- Dust- and water-proof lens with adjustable LED illumination
- ±180° swivel angle due to 2-way joint
- Live viewing via 5.0" HD colour display with zoom, rotate and mirror function
- Photo and video documentation with date and time stamp
- Incl. 8 GB microSD card and powerful 3.7 V lithium-polymer battery (5000 mAh)
- Connection with smartphone, tablet and laptop etc. possible
- Direct playback of photos and videos on the display



NEW

8parts

| Code | No. | Display | Resolution | Swivel angle | Cable diameter (max.) | Length, cable | Number of LEDs | Battery | Temperature range |
|---------|--------------|---------|------------|--------------|-----------------------|---------------|----------------|-----------|-------------------|
| 3444910 | KL-0880-10 K | 5.0" | 1280 x 720 | +/- 180° | 3.9 mm | 1 m | 6 | 5.000 mAh | -10 up to +60 °C |

Made in Germany



NEW



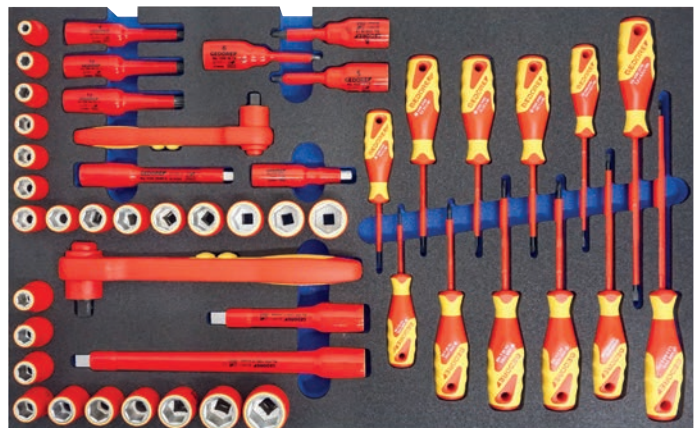
KL-4600-200

TOOL TROLLEY WITH HIGH-VOLTAGE ASSORTMENT (103 PARTS)

- The perfect tool kit for maintenance and repairs on hybrid and electric vehicles
- Suitable for vehicles of all manufacturers
- All tools are protective insulated to EN 60900/EC 60900
- Tool trolley: Side walls with Euro perforation, externally mounted heavy-duty chassis, ball-bearing guide rails and central lock
- Included: digital voltage tester, 3/8" VDE torque wrench Safety lock, socket spanner and ratchet in 3/8" and 1/2", and many more.

Content:

- 3/8" VDE-tool assortment with SW 6 - 22; XZN M8 - M12
- 3/8" VDE torque wrench 5 - 25 Nm
- 1/2" VDE workshop assortment with SW 10 - 24; IN 5 - 8 mm;
- VDE single open-end spanner SW 9 - 24
- VDE single end ring spanner SW 8 - 22
- VDE slotted and cross-head screwdriver; TX T8 - T30
- VDE cable shear, VDE universal pliers, VDE power combination pliers, VDE power diagonal cutter, VDE flat nose-round pliers, angled, VDE flat pliers, VDE cable stripping knife
- Meter connection fittings
- Digital voltage tester 1,000 V
- Electrician's protective gloves
- Undergloves
- Rubberised cloth cover 250 x 350 mm
- ISO insulation mat
- Barrier tape
- Warning sign "Flash"
- Warning sign high voltage "Switched ON", Warning sign "Switched OFF"
- Safety padlock
- Plastic clamp 80 mm and 160 mm
- Cable splitting wedge
- Rubber hammer



103parts 3/8 1/2 U.E. GS 1000V

| Code | No. | Dimensions | Number of drawers | Load capacity (mobile/static) | Load capacity (per drawer) | Design |
|---------|-------------|--------------------------|-------------------|-------------------------------|----------------------------|-------------|
| 3415740 | KL-4600-200 | H 985 x W 775 x D 475 mm | 6 | 650 kg / 900 kg | 40 kg | 3/8" + 1/2" |

KL-4600-3004

SELF-CLAMPING CAP

20 mm diameter, 85 mm long

- Universally used for hybrid and electric vehicles
- For easy covering and protection of live cable ends provides protection against accidental contact
- RED dip insulated
- IEC 60900 standard
- 1000V (double triangle) approval
- 10-way safety



NEW

| Code | No. | Diameter | Length |
|---------|--------------|----------|--------|
| 3433145 | KL-4600-3004 | 20 mm | 85 mm |

KL-4600-30..

ASSEMBLY TWEEZERS, INSULATED



- Universally used for hybrid and electric vehicles
- For safe working on the vehicle, provides protection against accidental contact with live parts
- RED dip insulated
- IEC 60900 standard

NEW

| Code | No. | Variant | Length | Approval | Unit-tested |
|---------|--------------|----------|--------|-------------------------|---------------|
| 3433129 | KL-4600-3002 | bent | 150 mm | 1000V (double triangle) | 10-way safety |
| 3433137 | KL-4600-3003 | straight | 145 mm | 1000V (double triangle) | 10-way safety |

KL-0190-13

COMPACT UNLOCKING TOOL



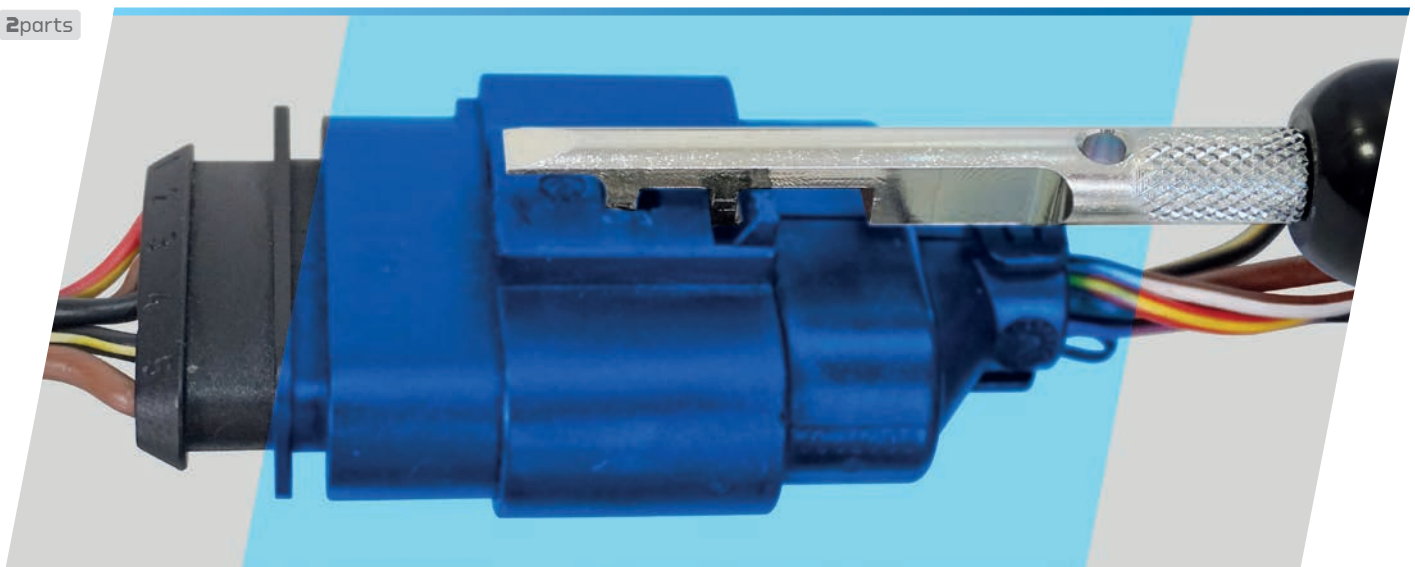
Universally suitable for a wide range of cable connector systems.

- For professional and non-destructive unlocking of cable plugs
- Enables cable plugs to be unlocked from both sides (pulling or pushing)
- The cable connector can be unlocked even if the cable connector has broken off
- Very compact design

NEW



2parts



| Code | No. | Length without extension | Length with extension |
|---------|------------|--------------------------|-----------------------|
| 3408175 | KL-0190-13 | 85 mm | 345 mm |

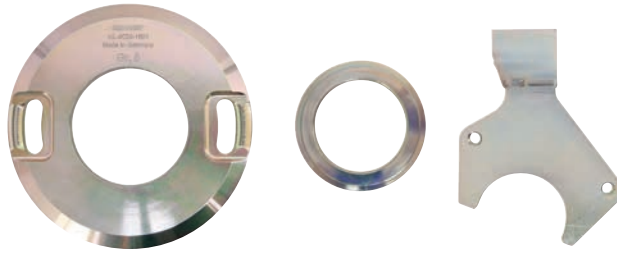
KL-0029-152

**SUPPLEMENTARY KIT
FORD, SIZE 8**

Made in Germany



NEW



3 parts

Fits Ford front axle suspension struts, for example, Ford Kuga I and Kuga II (DM2).

- For the quick removal and installation of the McPherson strut
- Only in combination with the basic tool KL-0029-100 / -100 A

Suitability: **FORD**

| Code | No. | Content | Weight |
|---------|-------------|--|--------|
| 3419290 | KL-0029-152 | 1x Support ring size 5, 1x Complementary kit Ford, size 8, small | 2.5 kg |

KL-0029-1520

**SUPPLEMENTARY KIT,
FORD, SIZE 8**

Made in Germany



NEW



2 parts

Fits Ford front axle suspension struts, for example, Ford Kuga I and Kuga II (DM2).

- For the quick removal and installation of the McPherson strut
- Only in combination with the basic tool KL-0029-100 / -100 A and support ring KL-0029-1501

Suitability: **FORD**

| Code | No. | Content | Weight |
|---------|--------------|---|--------|
| 3419282 | KL-0029-1520 | 1x Adapter ring with O-ring, 1x support plate size 8 with support | 1 kg |

KL-0029-200 K

**REMOVAL AND MOUNTING AID FOR
MCPHERSON SUSPENSION STRUTS**

Made in Germany



Suitable for McPherson suspension struts, in combination with the vehicle specific supplementary kits.

TIME, COST SAVING and **EFFICIENT**, simply **HELPFUL!**

- Unique special device for easy compression or reduction of the overall length of the strut
- Enables extremely fast removal and mounting of McPherson struts, especially on vehicle axles with strut clamping holes
- Extremely time and cost saving, as work such as loosening of axle parts and wheel alignment are no longer necessary
- Spring shape and pitch are completely irrelevant
- No direct contact with the spring
- Maximum user safety
- Simplest handling
- High load capacity
- 4-fold safety

Necessary accessories:
Vehicle-specific supplementary kits - KL-0029-1..



NEW



Suitability: **VW** **AUDI** **SEAT** **ŠKODA**

Note: The coil spring pre-compressor must never be used for the disassembling of suspension struts.

| Code | No. | Load (max.) | Span *(min/max) | Clamping range | Drive for compression nut |
|---------|---------------|-------------|-----------------|----------------|---------------------------|
| 3434419 | KL-0029-200 K | 17,500 N | 250 - 410 mm | 160 mm | 27 mm |

* = without support plate

KL-0050-51 A

**MORTISE SOCKET
Mercedes W203**

Made in Germany



NEW



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

- For unscrewing and tightening the shock absorber piston rod nut (locknut).

| Code | No. | Number of pins | Pin width | Drive (hexagon) | Inner diameter | Length | Width | Weight |
|---------|--------------|----------------|-----------|-----------------|----------------|--------|-------|--------|
| 3448568 | KL-0050-51 A | 2 | 2.6 mm | 19 mm | 14 mm | 28 mm | 22 mm | 50 g |

THREAD RESET

NEW

KIA CHEVROLET

JEEP HYUNDAI

LADA DAIHATSU

SUZUKI ISUZU

SUBARU HONDA

TOYOTA MAZDA

JAGUAR LEXUS

VOLVO RENAULT

ALFA PEUGEOT

FIAT CITROËN

VAUXHALL/OPEL

SMART CHRYSLER

NISSAN DODGE

INFINITI FORD

LAND ROVER

mitsubishi

VW-AUDI ...

SAFE, CHIPLESS REPAIR
NO WEAKENING OF THE THREAD
REPAIR IN ONLY 30 SECONDS
COMPLETE RESTORATION

KL-0173-612

RE-FORMING TOOL FOR WHEEL BOLT THREAD (M12x1,5)

Universally applicable on wheel studs and wheel bolts with M 12x1.5 thread, for passenger cars and vans.

- Fast and cost-saving reshaping of damaged threads on wheel studs and wheel bolts
- Thread is formed back to its original geometry (forming, pressing, stamping) back into its original geometry
- No material is removed in the process
- The strength of the wheel studs or wheel bolts is completely retained
- Thread is additionally compressed again
- Compact design
- Drive with a conventional hexagon socket with reversible ratchet
- Thread size covers approx. 80% of the approved vehicles with wheel studs!



NEW



| Code | No. | Drive | Thread |
|---------|-------------|-----------------|---------|
| 3435628 | KL-0173-612 | Hexagon size 36 | M12x1.5 |

KL-0173-601

RE-FORMING TOOL KIT FOR WHEEL BOLT THREAD (M12x1.25 + M14x1.5)

NEW

2 pcs



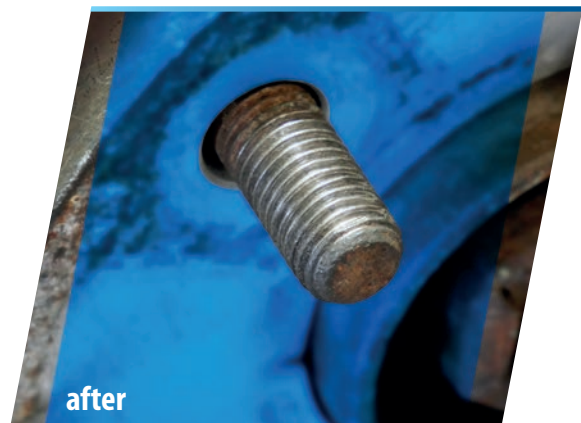
KL-0173-622

KL-0173-611

Universally applicable on wheel studs and wheel bolts with M 12x1.5 as well as M14x1.5 thread, for passenger cars and vans.

- Description see KL-0173-612

| Code | No. | Drive | Thread |
|---------|-------------|-----------------|--------------------|
| 3435644 | KL-0173-601 | Hexagon size 36 | M12x1.25 + M14x1.5 |



KL-0100-80 K

SPECIAL POWER SOCKET KIT 1/2"



NEW



Suitable for wheel bolts from Mercedes, Tesla, Hyundai and Kia with special profile.

- For unbolting and tightening wheel bolts
- Slim version with plastic sleeve

Suitability: **MERCEDES** **TESLA** **HYUNDAI** **KIA**

3 parts

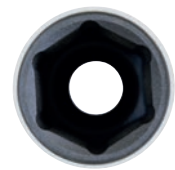
| Code | No. | Profiles | Drive (square) | Storage | Weight |
|---------|--------------|---------------------------|----------------|---------|--------|
| 3427692 | KL-0100-80 K | Single profiles / hexagon | 1/2" | in case | 900 g |

KL-0100-81 K

POWER SOCKET KIT, HALF SIZE, 1/2"



NEW



Suitable for wheel bolt connections with half sizes SW 16.5 - 21.5.

- For unbolting and tightening wheel bolts / release nuts
- Required for damaged chrome bolts/nuts
- Half a spanner size smaller when chrome cap is missing
- Half a spanner size larger in case of extended chrome cap (corrosion)

Suitability: universally, especially for: **FORD**



6 parts

| Code | No. | Profile | Drive (square) | Storage | Weight |
|---------|--------------|---------|----------------|---------|--------|
| 3427773 | KL-0100-81 K | 6-edge | 1/2" | in case | 1.5 kg |

KL-0250-43 KB

BORING TOOL KIT VW-AUDI

in plastic case

Made in Germany



Fits VW-Audi, Seat, and Škoda vehicles with multi-link axle.

- For fast and professional drilling of extremely jammed clamping screws (size 16)
- Required, for example, when changing the upper or lower suspension arms and the tie bar end
- No replacement of the steering knuckle required

Suitability:



Application video



NEW

14 parts

| Code | No. | Content |
|---------|---------------|---|
| 3418820 | KL-0250-43 KB | 1x Basic tool; 1x drill bushes and drill 7 mm; 1x drill bush and drill 9.5 mm; 1x drill extension; 1x countersink 12.4 mm dia.; 1x clamping device; 1x punch 6 mm |

KL-8041-300

PREMIUM WHEEL BEARING PACKAGE

Made in Germany



Universal fit.

- For a professional removal and installation of wheel bearings, wheel hubs and cardan shafts
- Even extremely stuck or rusty wheel bearings, can be easily pulled off with the hydraulic cylinder

Necessary accessories: Hydraulic pump



68 parts

NEW

| Code | No. | For Ø (min.) | For Ø (max.) | Drive | Content |
|---------|-------------|--------------|--------------|-------------------------|---|
| 3434974 | KL-8041-300 | 60 mm | 85 mm | mechanical hydraulic | Wheel bearing tool kit, wheel hub puller kit, impact extractor 4.8 kg, supplementary kit for drive shafts, hydraulic drive, hydraulic cylinder 17 t |

KL-0174-728

PULL BOLT, TYPE B, M15 X 1.25

Made in Germany



NEW



Fits M15x1.25 wheel bolt systems, for example on Mercedes GLE (V167 / C167), GLS (X167), etc.

Suitability: **MERCEDES**

| Code | No. | Connection thread | Distance area | Overall length |
|---------|-------------|-------------------|---------------|----------------|
| 3408760 | KL-0174-728 | M15x1.25 | 100 mm | 168 mm |

KL-0041-452 C

WHEEL-BEARING MOUNTING TOOL Ø 85 MM

Suitable for rear axles with wheel bearing Ø 85 mm, for example on Toyota ProAce; Peugeot Expert, Traveller; Citroen Jumpy; Opel Zafira, Vivaro, Renault Traffic, Fiat Talento etc.

- For removal and installation of the wheel bearing unit directly on the vehicle
- Required for wheel hubs without centre bore
- No damage to the bearing, as pressure during installation is only applied via the outer bearing ring

Additional mechanical drive parts necessary!

KL-0040-2500 - Hydraulic cylinder, 17 t

KL-0039-802 - Hydraulic drive

KL-0041-380 A - Wheel hub extractor

KL-0215-35 M25 - Hand pump or

KL-0215-36 M25 - Foot pump

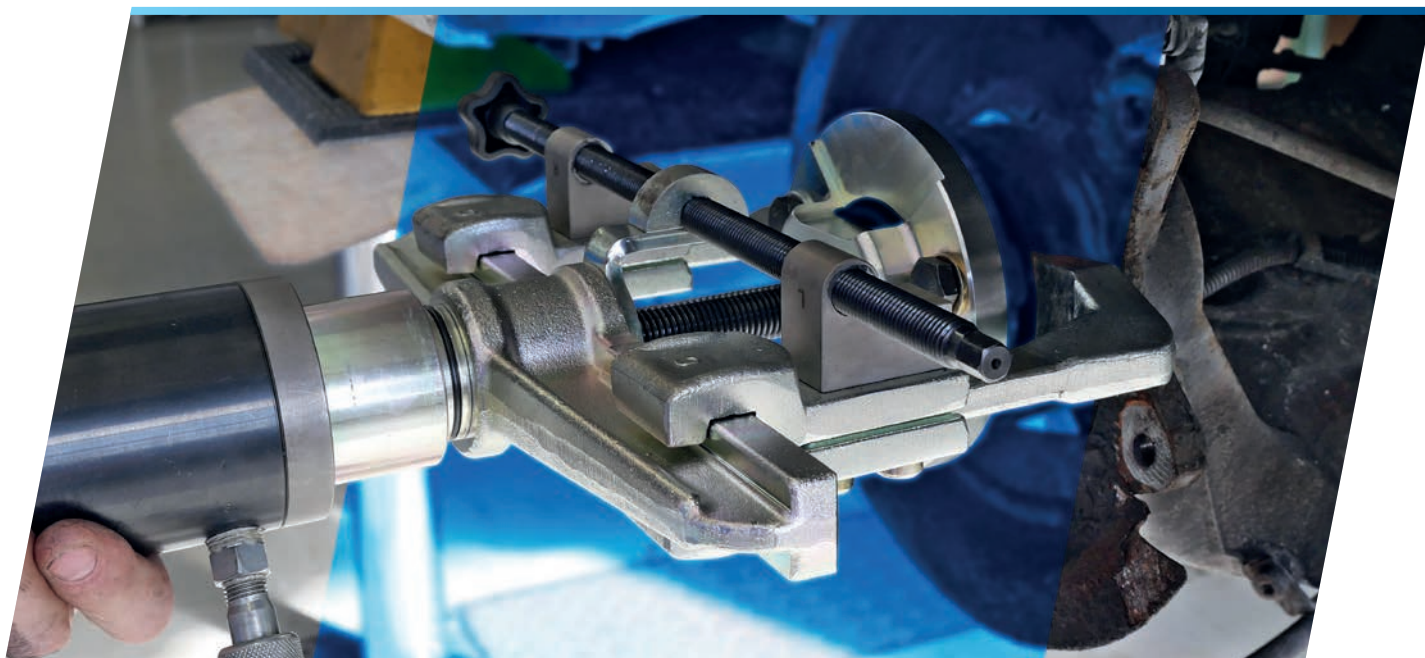
NEW



Suitability:

TOYOTA **PEUGEOT** **CITROËN** **RENAULT** **VAUXHALL/OPEL** **FIAT**

| Code | No. | for outside diameter (bearing) | Hole circle Ø | Load (max.) | Drive type |
|---------|---------------|--------------------------------|------------------------------|-------------|------------|
| 3445828 | KL-0041-452 C | 85 mm | 5x98 5x100 5x108 5x112 | 17 t | hydraulic |



KL-0041-4521

PULLER PLATE WITH SCREWS



NEW

Suitable for rear axles with wheel bearing Ø 85 mm, for example on Toyota ProAce; Peugeot Expert, Traveller; Citroen Jumpy; Opel Zafira, Vivaro, Renault Traffic, Fiat Talento etc.

- For removal of the wheel bearing unit directly on the vehicle
- Required for wheel hubs without centre bore
- As supplement for Modulo KL-4999-250 / -260 / -270

Accessory necessary!

KL-0041-380 A - Wheel hub extractor

KL-0041-451 B and KL-0041-461 D - Wheel bearing mounting tool

9 parts

Suitability: **TOYOTA** **PEUGEOT** **CITROËN** **RENAULT** **VAUXHALL/OPEL** **FIAT**

| Code | No. | Outside diameter | Drive type | Height |
|---------|--------------|------------------|------------|--------|
| 3445836 | KL-0041-4521 | 135 mm | hydraulic | 35 mm |

KL-4999-2504 E

SUPPLEMENT WHEEL BEARING MB



NEW



Suitability: **MERCEDES** **VW**

39parts

Suitable for the front axle of Mercedes Vito / Viano / V-Class (W639, W447), Sprinter (W906) and VW Crafter (2E/2F) with front-wheel drive, rear drive or all-wheel drive.

- For removal and installation of the wheel bearing unit or of the wheel bearing with wheel hub directly on the vehicle
- For wheel hubs with and without centre bore
- No need to replace the entire steering knuckle
- No wheel alignment required
- As supplement for Modulo KL-4999-250 / -260

| Code | No. | Load (max.) | Drive type | Storage | Width | Height | Depth |
|---------|----------------|-------------|------------|------------------|--------|--------|--------|
| 3441504 | KL-4999-2504 E | 17 t | hydraulic | with foam insert | 995 mm | 140 mm | 465 mm |

KL-0041-521 K

WHEEL BEARING TOOL KIT

Vito/Viano VA



NEW



28parts

Suitable for the front axle of Mercedes Vito / Viano, V-Class (W639, W447) with rear drive.

- For removal and installation of the wheel bearing unit directly on the vehicle
- Required for wheel hubs without centre bore
- No damage to the bearing, as pressure during installation is only applied via the outer bearing ring
- No need to replace the entire steering knuckle
- No wheel alignment required
- Additional mechanical drive parts necessary!

Suitability: **MERCEDES**



| Code | No. | Load (max.) | Drive type | Storage | Width | Height | Depth |
|---------|---------------|-------------|------------|-----------|--------|--------|--------|
| 3441350 | KL-0041-521 K | 17 t | hydraulic | in L-Boxx | 442 mm | 151 mm | 357 mm |

KL-0041-522 K

WHEEL BEARING TOOL KIT

Vito/Viano VA



NEW



15parts

Suitable for the front axle of Mercedes Vito / Viano, V-Class (W639, W447) with front-wheel as well as with all-wheel drive.

- For removal and installation of the wheel bearing and wheel hub directly on the vehicle
- Only for wheel hubs with centre bore
- Additional mechanical drive parts necessary!

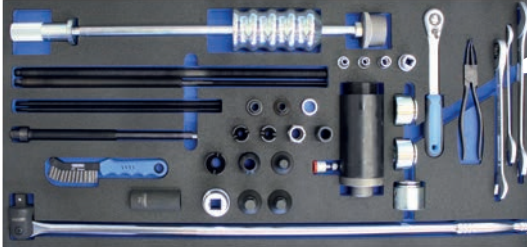
Suitability: **MERCEDES**

| Code | No. | Load (max.) | Drive type | Storage | Width | Height | Depth |
|---------|---------------|-------------|------------|-----------|--------|--------|--------|
| 3441377 | KL-0041-522 K | 17 t | hydraulic | in L-Boxx | 442 mm | 151 mm | 357 mm |

MODULO ASSEMBLY TROLLEY

KL-4999-250

"MODULO 250" ASSEMBLY TROLLEY



The assembly trolley is the ideal, mobile workstation for fast, organised, and efficient repairs.

Content / range of application:

- Various drive parts for operating the tool kits
- Removal and insertion of wheel bearings and hubs
- Removal and insertion of wheel hub bearing units
- Pulling of wishbones from the support joint clamping hole
- Removal of bonded and jammed joint shafts
- Various helpful hand tools

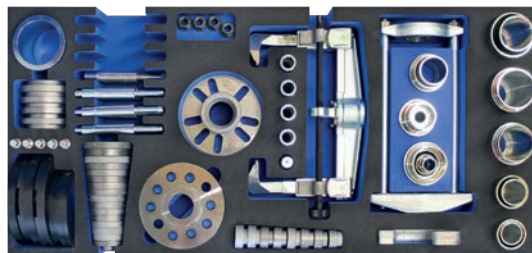
Required drive parts:

KL-0215-35 M25 - Hydraulic pump

Suitability: universally

NEW

127 parts



| Code | No. | Load-carrying capacity (static / dynamic) | Load-carrying capacity of drawer |
|---------|-------------|---|----------------------------------|
| 3413349 | KL-4999-250 | 1,000 kg / 750 kg | 70 kg |

KL-4999-260

"MODULO 260" ASSEMBLY TROLLEY



The assembly trolley is the ideal, mobile workstation for fast, organised and efficient repairs.

Content / range of application:

- Various drive parts for operating the tool kits
- Removal and insertion of wheel hub bearing units
- Pulling of wishbones from the steering knuckle clamping hole
- Removal and insertion of wheel bearings and hubs
- Removal of bonded and jammed joint shafts
- Pulling and forcing into place of support/guide joints, silent blocks and joint bearings
- Pulling of stuck screwed wheel bearing units
- Also suitable for Subaru wheel bearings as well as Ford/Mazda/Volvo silent blocks rear axle
- The universal solution for nearly all axle repairs
- Various helpful hand tools

Required drive parts: KL-0215-35 M25 - Hydraulic pump

Suitability: universally

NEW

189 parts



| Code | No. | Load-carrying capacity (static / dynamic) | Load-carrying capacity of drawer |
|---------|-------------|---|----------------------------------|
| 3423468 | KL-4999-260 | 1,000 kg / 750 kg | 70 kg |



Universally applicable for repairs on wheel bearings, steering and axle systems on passenger cars and vans.

Made in Germany



KL-4999-270 A

"MODULO 270 A" ASSEMBLY TROLLEY

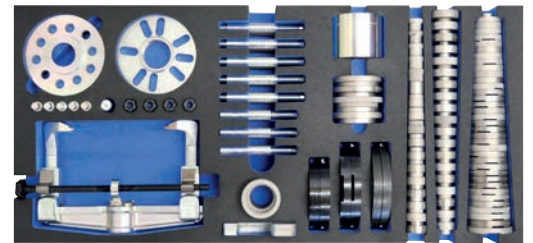
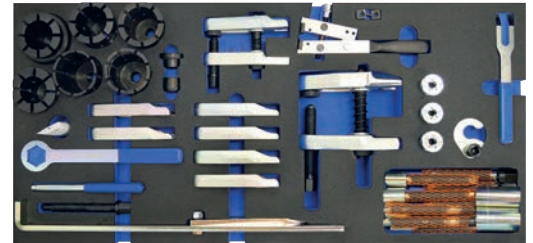
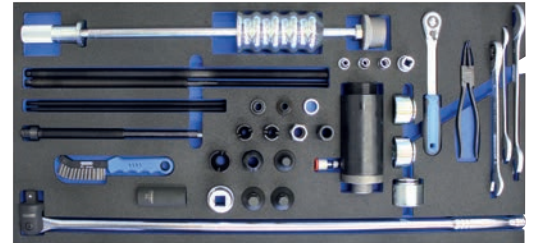
The assembly trolley is the ideal, mobile workstation for fast, organised, and efficient repairs.



Content / range of application:

- Various drive parts for operating the tool kits
- Removal and insertion of wheel bearings and hubs
- Removal and insertion of wheel hub bearing units
- Pulling of wishbones from the support joint clamping hole
- Removal of bonded and jammed joint shafts
- Pulling and forcing into place of support/guide joints, silent blocks and joint bearings
- Pulling of stuck screwed wheel bearing units
- Counter-holding of wheel hubs when loosening and tightening the wheel bearing central bolt
- Pulling of stuck wheel bearing inner rings from the wheel bearing
- Compressing of ear O-clips and locking of stepless hose clips
- Separating of ball joint connections of steering and axle systems
- Loosening and tightening of inner tie bar joints or axial joints
- Also suitable for Subaru wheel bearings as well as Ford/Mazda/Volvo silent blocks rear axle
- The most comprehensive solution for almost any axle repair
- Also for removing inner ring bearings and breaking breaking of ball joints on passenger cars and light commercial vehicles
- Various helpful hand tools
- **Reshaping of stud bolt threads at the wheel hub**
- **Inserting cardan shafts**

Suitability: universally



NEW

Inclusive Hydraulic-Pump

234 parts

| Code | No. | Load-carrying capacity (static / dynamic) | Load-carrying capacity of drawer |
|---------|---------------|---|----------------------------------|
| 3460606 | KL-4999-270 A | 1,000 kg / 750 kg | 70 kg |

KL-4999-1280

SURFACE-MOUNT WORKTOP

for KL-4999 series / 1507 XL

Made in Germany



Fits the MODULO workshop trolley KL-4999-12x and 1507 XL.

- To be placed on the wooden worktop
- Extremely robust, impact resistant and oil resistant
- With 2x can shelves and 8x storage compartments

NEW

| Code | No. | Inner plate dimension | Material | Weight |
|---------|--------------|-----------------------|---|--------|
| 3428001 | KL-4999-1280 | 1202 x 639 mm | Impact and oil resistant ABS hard plastic | 3.2 kg |

KL-0167-30 A

EXCENTRIC WRENCH FOR REMOVAL AND INSTALLATION OF AXIAL JOINTS



Made in Germany



NEW



Fits universally for cars and vans.

- For the quick removal and installation of internal track rods or axial joints with a \varnothing of 30 - 43 mm

Advantages:

- High time saving
- Without removing the steering gear
- Unique open construction
- Resistant profiling reliably prevents slipping of the tool
- Direct mounting on the tie rod
- Drive via 1/2" square socket

Suitability: universally, especially for:



Application video



| Code | No. | Drive | For \varnothing (min.) | For \varnothing (max.) |
|---------|--------------|-------|--------------------------|--------------------------|
| 3427900 | KL-0167-30 A | 1/2" | 30 mm | 43 mm |

KL-4007-3270

EXTENSION 700 MM, 1/2"



NEW



Universal fit.

- Especially suitable for KL-0167-30 / -30 A
- For hand-operated socket spanners
- With ball lock.

| Code | No. | Drive | Length | Weight |
|---------|--------------|-------|--------|--------|
| 3447707 | KL-4007-3270 | 1/2" | 700 mm | 920 g |

KL-0414-2

DRIVE SHAFTS DISASSEMBLY LEVER



Made in Germany



NEW

Universally suitable for passenger cars and vans with plugged-in drive shafts on the gearbox.

- For easily pressing out the drive shafts
- Optimal support due to an adjustable articulated foot

Suitability: universally, especially for:



| Code | No. | Length | Blade width | Weight |
|---------|-----------|--------|-------------|--------|
| 3421171 | KL-0414-2 | 610 mm | 40 mm | 1.5 kg |

KL-0121-512

HOSE CLAMP PLIERS



Universal fit.

- For removal and installation of hoses secured by spring band clamps
- For straight or 90° offset applications



NEW



| Code | No. | Head width | Length | Weight |
|---------|-------------|------------|--------|--------|
| 3435504 | KL-0121-512 | 16 mm | 205 mm | 300 g |

KL-0121-21 A

HOSE CLAMP PLIERS WITH REMOTE CONTROL (SEMI-RIGID)



Universal fit, for example on EGR coolers on VW-Audi.

- For safe opening and retaining of spring-loaded band clamps
- Thanks to the remote control, it is also suitable for spots which are hard to reach
- Semi-rigid construction allows shaping of the bowden cable
- With locking lever

NEW



| Code | No. | Spring-loaded band clamp diameter | Length of bowden cable |
|---------|--------------|-----------------------------------|------------------------|
| 3406350 | KL-0121-21 A | 18 - 53 mm | 680 mm |

KL-0282-35 C

COUNTER-HOLD TOOL KIT (470 mm long, adjustable)

Made in Germany



Universal fit for perforated timing belt and timing chain sprockets, with or without camshaft adjustment.

- For professional counter-holding of timing belt and timing chain sprockets
- For loosening and tightening of the fastening screws
- For hole diameters of min. 6.5 mm or M8 receiving thread
- Includes many exchangeable screw pairs

Suitability: Universally



9 parts

NEW



| Code | No. | Pin diameter | Knurled screw diameter | Length of counter-holding spanner | Counter-holding spanner width | for engine type |
|---------|--------------|----------------------|------------------------|-----------------------------------|-------------------------------|-----------------|
| 3417468 | KL-0282-35 C | 6 + 7.5 + 12 + 18 mm | M8 x 1.25 mm | 470 mm | variable from 14 to 130 mm | Petrol + Diesel |

KL-0280-766 KA

LOCKING TOOL KIT FOR VW 1.0

In plastic case

Made in Germany



NEW



Fits VW, Seat, and Škoda 1.0 (3-cylinder) petrol engines (Engine code: CHYA, CHYB, CPGA).

- For locking and positioning the camshafts, crankshaft and the timing belt tensioning unit

Suitability: **VW** **SEAT** **ŠKODA**

4 parts

| Code | No. | Spanner size: | Profile | for engine type | Storage |
|---------|----------------|---------------|----------------|-----------------|---------|
| 3086240 | KL-0280-766 KA | 30 mm | double hexagon | Petrol | in case |

KL-0284-171 A

TENSIONING SPANNER, SW 30 MM

Made in Germany



NEW



Fits VW, Seat, and Škoda 1.0, 1.2, and 1.4 TSI petrol engines.

- For professional torquing or tensioning and releasing the toothed belt tensioner

Suitability: **VW** **SEAT** **ŠKODA**

| Code | No. | Spanner size: | Length | Weight |
|---------|---------------|---------------|--------|--------|
| 3281191 | KL-0284-171 A | 30 mm | 332 mm | 160 g |

KL-0284-172

ADAPTER KEY SIZE 13, 3/8"

Made in Germany



NEW



Suitable for timing belt tensioners on VW, Audi, Seat and Škoda with 1.0, 1.2 as well as 1.4 FSI/TSI/TFPI petrol engines.

- For loosening and controlled tightening of the hard to reach fastening screw of the timing belt tensioner
- Enables controlled tightening with a conventional 3/8" torque spanner

| Code | No. | Spanner size: | Profile | Drive | Length |
|---------|-------------|---------------|-----------|-------|--------|
| 3293432 | KL-0284-172 | SW13 mm | Double SK | 3/8" | 215 mm |

KL-0580-851 E

LOCKING TOOL FOR BMW (B38/B46/B48)

with foam insert

Made in Germany



NEW



Fits BMW and MINI (B38/B46/B48) 1.2, 1.5, 1.6, 2.0 petrol direct injection engines with turbocharging.

- For locking the camshafts and flywheel
- Pre-tensioning the timing chain tensioner
- For checking the camshaft settings sensor wheels

Suitability: **BMW** **MINI**

9 parts

| Code | No. | for engine type | Storage |
|---------|---------------|-----------------|------------------|
| 3298574 | KL-0580-851 E | Petrol | with foam insert |

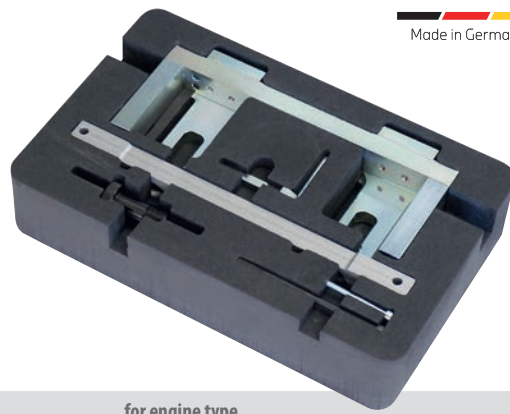
KL-0580-842 E

LOCKING TOOL FOR BMW (N20)

with foam insert



NEW



Fits BMW (N20) 2.0 petrol direct injection engines with turbocharging.

- For locking the camshafts and flywheel
- Pre-tensioning the timing chain tensioner
- For checking the camshaft settings sensor wheels

Suitability: **BMW**

4 parts

| Code | No. | for engine type | Storage |
|---------|---------------|-----------------|------------------|
| 3298930 | KL-0580-842 E | Petrol | with foam insert |

KL-0580-841 E

LOCKING TOOL KIT BMW/MINI (N13/N18)

with foam insert



NEW



Fits BMW (N13) and MINI (N18) 1.6 petrol direct injection engines with turbocharging.

- For locking the camshafts and flywheel
- For pre-tensioning the timing chain tensioner

Suitability: **BMW** **MINI**

4 parts

| Code | No. | for engine type | Storage |
|---------|---------------|-----------------|------------------|
| 3298787 | KL-0580-841 E | Petrol | with foam insert |

KL-0580-230

SOCKET SPANNER FOR BMW injection pump shaft (N47)



Fits BMW (N47) 1.6 and 2.0 diesel engines with Bosch CP4.1 high-pressure pump.

- For correct positioning of the high-pressure pump shaft when fitting the timing chain sprocket

Suitability: **BMW**

NEW

| Code | No. | Length | Drive | Weight |
|---------|-------------|--------|-------|--------|
| 3408566 | KL-0580-230 | 41 mm | 1/2" | 250 g |

KL-0380-753 K

LOCKING TOOL KIT FOR MERCEDES 1.3



NEW



Suitable for Mercedes 1.3 petrol engines.

- For locking of the camshafts, crankshaft, flywheel and the timing belt tensioning unit

Suitability: **MERCEDES**

| Code | No. | For engine type | Storage | Weight |
|---------|-------------|-----------------|---------|--------|
| 3435717 | KL-0380-753 | Petrol | in case | 1.8 kg |

KL-0680-30 K

LOCKING TOOL KIT FORD 1.0 ECOBOOST

NEW



18 parts

| Code | No. | For engine type | Storage |
|---------|--------------|-----------------|---------|
| 3417425 | KL-0680-30 K | Petrol | in case |



Fits with Ford 3-cylinder 1.0 EcoBoost petrol engines.

- For locking the camshafts, timing belts tensioner, crankshaft, and the flywheel
- For adjusting the camshaft phasers
- For pushing in the crankshaft seal ring

Suitability: **FORD**

KL-0680-702 K

LOCKING TOOL KIT, Ford 2.0 TDCi Ecoblue

NEW



| Code | No. | For engine type | Storage |
|---------|---------------|-----------------|---------|
| 3436063 | KL-0680-702 K | Diesel | in case |



Suitable for FORD 2.0 CDTi diesel engines.

- For locking the camshafts, flywheel, and timing chain tensioner
- For aligning the crankshaft
- For damage-free fitting of the timing belt on the camshafts

KL-0183-80

VIBRATION DAMPER PULLER FORD

NEW



10 pcs

| Code | No. | For engine type | Clamping range | Weight |
|---------|------------|-----------------|----------------------|--------|
| 3429067 | KL-0183-80 | Petrol + Diesel | 66 - 108 mm diameter | 2.5 kg |



Suitable for crankshaft vibration damper for Ford 1.5 EcoBoost and 2.0 EcoBlue motors.

- For easy pulling of the vibration damper
- Even very tight seized bearings are no problem

KL-0482-703 K

LOCKING TOOL KIT Opel 1.6 CDTi

NEW



| Code | No. | For engine type | Storage |
|---------|---------------|-----------------|---------|
| 3435806 | KL-0482-703 K | Diesel | in case |



Suitable for Opel 1.6 CDTi diesel engines.

- For locking the camshafts, crankshaft, and V-ribbed belt as well as timing chain tensioner
- For counterholding the crankshaft when loosening and tightening the crankshaft central bolts

KL-1280-704 K
LOCKING TOOL KIT,
Renault 1.6 dCi

NEW



Suitable for Renault, Fiat, Mercedes-Benz, Nissan, and Opel 1.6 (R9M) diesel motors.

- For locking the camshafts, crankshaft, V-ribbed belt and timing chain tensioner
- For counterholding the crankshaft
- For aligning the two-piece camshaft gearwheel

| Code | No. | For engine type | Storage |
|---------|---------------|-----------------|---------|
| 3435911 | KL-1280-704 K | Diesel | in case |

KL-1380-7533
SEALING RING MOUNTING TOOL *crankshaft*

NEW

Fits Citroen, Opel, Peugeot and Toyota 1.0 + 1.2 (3-cylinder) petrol engines.

- For damage-free pressing in of the crankshaft sealing ring (toothed belt side)
- Required, for example, when changing the timing belt or repairing the engine

Recommended accessories:

- KL-1380-753 KB - Locking tool kit for PSA 1.0 + 1.2
- KL-1380-754 K - Locking tool kit PSA 1.2 GDI



| Code | No. | For engine type |
|---------|--------------|-----------------|
| 3436276 | KL-1380-7533 | Petrol |

KL-1380-7535
COUNTER-HOLD SPANNER *Crankshaft*

NEW

Fits Citroen, Opel, Peugeot and Toyota 1.0 + 1.2 (3-cylinder) petrol engines.

- For counterholding the crankshaft
- When loosening and tightening the crankshaft central bolt
- Accessories for KL-1380-753 KB and KL-1380-754 K



| Code | No. | For engine type |
|---------|--------------|-----------------|
| 3435938 | KL-1380-7535 | Petrol |

KL-1380-754 K
LOCKING TOOL KIT
FOR PSA 1.2 GDI

NEW



Fits Citroen, Opel and Peugeot 1.2 1.2 (3-cylinder) petrol engines.

- For checking the timing belt
- For locking the camshafts, crankshaft, V-ribbed belt tensioner or flywheel

Recommended accessories:

- KL-1380-7533 - Sealing ring mounting tool week
- KL-1380-7535 - Counter-hold spanner crankshaft

| Code | No. | For engine type | Storage |
|---------|---------------|-----------------|---------|
| 3435997 | KL-1380-754 K | Petrol | in case |

KL-1280-7047
SOCKET SPANNER
8-edge for turbo exhaust housing

NEW



Suitable 8-edge special profile screws for Renault, Fiat, Mercedes-Benz, Nissan, and Opel 1.6 (R9M) diesel motors.

- For loosening and tightening the 8-edge special profile screws on the charge air pipe downstream of the turbocharger* and on the engine bonnet
- *Not requested for bi-turbo engines!

1/4"

| Code | No. | Special profile | Spanner size | Length | Drive |
|---------|--------------|-----------------|--------------|--------|-------|
| 3435814 | KL-1280-7047 | 8-edge | 10 mm | 50 mm | 1/4" |

KL-0186-14 KB

INJECTOR PULLER KIT

Universal, in plastic case

Universal fit for BOSCH and DELPHI injectors with M17x1 female thread and M14x1.5 male thread, for example, on PSA, Fiat, Mercedes, VW-Audi, Renault, Nissan, Vauxhall/Opel, Toyota, etc.

- For quick and powerful pulling of heavily stuck diesel injectors
- No removal of the cylinder head required
- Supplementary kits for engines and injectors available
- Can be operated hydraulically (accessories required)

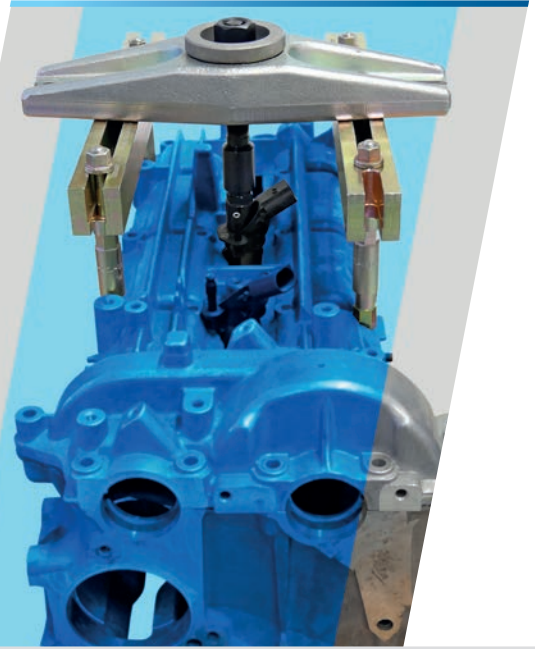
Suitability: universally, especially for:

MERCEDES **VW** **AUDI** **CITROËN**
FORD **MAZDA** **PEUGEOT** **PSA**
SUZUKI **FIAT** **VOLVO**

45 parts



Made in Germany



NEW

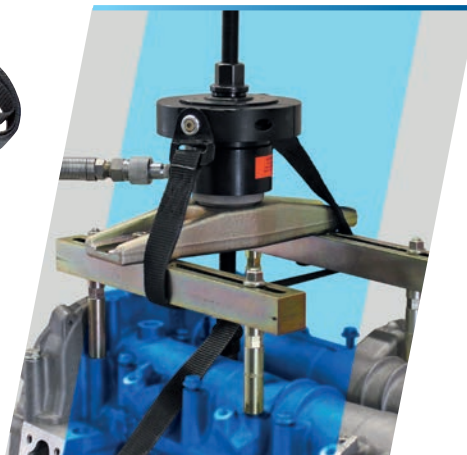
| Code | No. | for female thread | for male thread | Engine type | Injectors |
|---------|---------------|-------------------|-----------------|-------------|---------------|
| 3420124 | KL-0186-14 KB | M17x1 | M14x1.5 | Diesel | Bosch, Delphi |

KL-0040-175 C

HYDRAULIC DRIVE KIT

with safety retaining belt

4 parts



Made in Germany



- Hydraulic drive for nozzle injectors **KL-0186-14 KB**
- Quick and controlled pulling of heavily stuck injectors

Required drive parts:
KL-0215-35 M25 - Hydraulic pump

Suitability: Universally

NEW

| Code | No. | Max. admissible force | Max. stroke | Max. oil pressure | Weight |
|---------|---------------|-----------------------|-------------|-------------------|--------|
| 3420191 | KL-0040-175 C | 170 kN (17 t) | 15 mm | 700 bars | 2.7 kg |

KL-0186-1284 A

SUPPLEMENTARY KIT

Denso injector M20x1

5 parts $\frac{1}{2}$ "

NEW



Made in Germany



Suitable for Denso injectors with an M20x1 female thread and, additionally, M25x0.5 or M25x0.75 male threads and a spanner size of 27 mm.

- Supplement for the injector extractor **KL-0186-14 KB**
- Depending on the engine, the specific support bolt kit **KL-0186-123.. / -124..** may be required

| Code | No. | for injectors | Drive | Spanner size: |
|---------|----------------|---------------|-------|---------------|
| 3420175 | KL-0186-1284 A | Denso | 1/2" | 27 mm |

KL-0186-1283 A

SUPPLEMENTARY KIT

Denso injector M16x1

NEW



Made in Germany



Suitable for Denso injectors with a female thread M16x1 and a spanner size of 17 mm.

- Supplement for the injector extractor KL-0186-14 KB
- Depending on the engine, the specific support bolt kit KL-0186-123../-124.. may be required

2parts 3/8"

| Code | No. | for injectors | Drive | Spanner size: |
|---------|----------------|---------------|-------|---------------|
| 3420159 | KL-0186-1283 A | Denso | 3/8" | 17 mm |

KL-0186-1282 A

SUPPLEMENTARY KIT

Siemens injector M27x1

NEW



Made in Germany



Suitable for Siemens injectors with a female thread M27x1 and a spanner size of 27 mm.

- Supplement for the injector extractor KL-0186-14 KB
- Depending on the engine, the specific support bolt kit KL-0186-123../-124.. may be required

2parts 1/2"

| Code | No. | for injectors | Drive | Spanner size: |
|---------|----------------|---------------|-------|---------------|
| 3420140 | KL-0186-1282 A | Siemens/VDO | 1/2" | 27 mm |

KL-0186-1281 A

SUPPLEMENTARY KIT

Siemens injector M25x1

NEW



Made in Germany



Suitable for Siemens injectors with an M25x1 female thread and a spanner size of 25 mm, e.g. for VW, Audi, Seat, Škoda 1.6 TDI. (CAYA, CAYB, CAYC, CAYD, CAYE, CLNA)

- Supplement for the injector extractor KL-0186-14 KB
- Depending on the engine, the specific support bolt kit KL-0186-123../-124.. may be required

2parts 1/2"

| Code | No. | for injectors | Drive | Spanner size: |
|---------|----------------|---------------|-------|---------------|
| 3420132 | KL-0186-1281 A | Siemens/VDO | 1/2" | 25 mm |

KL-0186-1285 A

SUPPLEMENTARY KIT

Delphi / Bosch injectors (90° angle)

NEW



Made in Germany



Suitable for Delphi and Bosch injectors with lateral fuel connection (90° angle to the injector).

- Supplement for the injector extractor KL-0186-14 KB
- Depending on the engine, the specific support bolt kit KL-0186-123../-124.. may be required

2parts

| Code | No. | for injectors | Weight |
|---------|----------------|------------------|--------|
| 3420183 | KL-0186-1285 A | Delphi and Bosch | 600 g |

KL-0186-540 E

TUBULAR BRUSH KIT FOR INJECTOR BORES

Made in Germany



NEW



Universal fit for Diesel engines.

- Enable easy and quick cleaning of the injector bore
- in combination with a cordless drill, for example

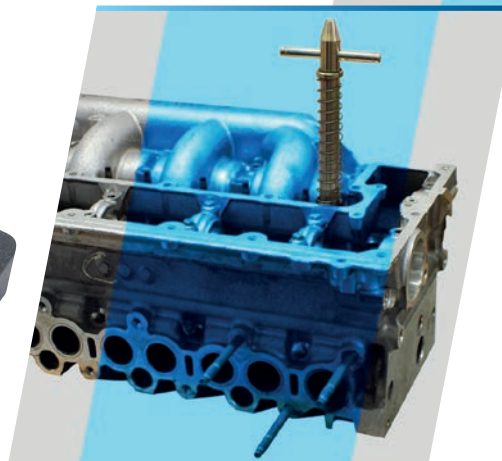


3 parts

| Code | No. | Injector bore brushes (length) | Injector bore brushes Ø |
|---------|---------------|--------------------------------|-------------------------|
| 3415252 | KL-0186-540 E | 200 mm | 18 / 19 / 24 mm |

KL-0186-54 E

CLEANING KIT FOR INJECTOR BORES



Universal fit for Diesel engines.

- For cleaning of flat injector seats with a diameter of 17 mm
- Enable easy and quick cleaning of the injector bore
- in combination with a cordless drill, for example

NEW

4 parts

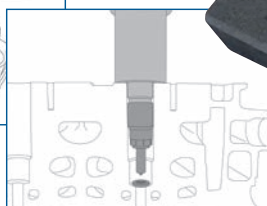
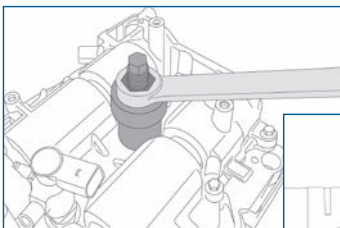
| Code | No. | Injector bore brushes (length) | Injector bore brushes (diameter) | Cleaning tool (length) | Cleaning tool (diameter) |
|---------|--------------|--------------------------------|----------------------------------|------------------------|--------------------------|
| 3415228 | KL-0186-54 E | 200 mm | 18 / 19 / 24 mm | 238 mm | 7.3 / 17 mm |

KL-0680-80 EA

INJECTOR EXTRACTOR FORD ECOBLUE 2.0

with foam insert

Made in Germany



Fits Ford 2.0 EcoBlue diesel engines.

- For quick and professional extraction of tight-fitting injectors directly on the vehicle
- No removal of the cylinder head required

Suitability: **FORD**

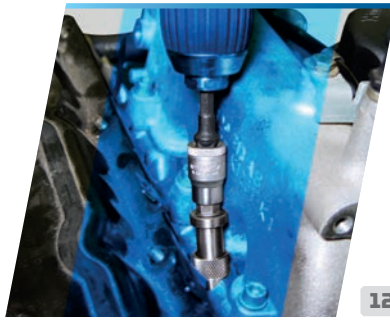
NEW

4 parts

| Code | No. | for engine type | Storage |
|---------|---------------|-----------------|------------------|
| 3407039 | KL-0680-80 EA | Diesel | with foam insert |

KL-0132-52 KB

GLOW PLUG TOOL KIT M10x1 universal



12parts



NEW

Fits universally for diesel engines with M10x1 glow plug thread, e.g. on VW-Audi, BMW, Mercedes, etc.

- For easily boring out torn glow plugs
- For recutting and cleaning the original thread on the cylinder head
- For pulling out the glow plug element
- Incl. particular guide sleeves for VW-Audi, BMW and Mercedes engines
- No need to remove or replace the cylinder head

Accessories:
KL-0369-300 A - Turning lathe

| Code | No. | For engine type | For thread | Storage |
|---------|---------------|-----------------|------------|---------|
| 3431592 | KL-0132-52 KB | Diesel | M10x1 | in case |

KL-0132-55 KA

GLOW PLUG TOOL KIT M8x1 universal



9parts



NEW

Fits universally for diesel engines with M8x1 glow plug thread, e.g. on Fiat, Mercedes, etc.

- For easily boring out torn glow plugs
- For recutting and cleaning the original thread on the cylinder head
- For pulling out the glow plug element
- Incl. particular guide sleeves for Mercedes and Fiat engines
- No need to remove or replace the cylinder head

Accessories:
KL-0369-300 A - Turning lathe

| Code | No. | For engine type | For thread | Storage |
|---------|---------------|-----------------|------------|---------|
| 3431762 | KL-0132-55 KA | Diesel | M8x1 | in case |

KL-0132-57 K

GLOW PLUG THREAD REPAIR KIT (M8x1 + M10x1)



NEW



22parts



Fits universally for diesel engines with M8x1+ M10x1 glow plug thread.

- For the repair of damaged glow plug threads on the cylinder head
- No need to replace the cylinder head
- In combination with KL-0283-7021 A and KL-0283-7022 (KL-0132-52 KB)

Necessary accessories:
KL-0283-7021 A - Core drill M10x1

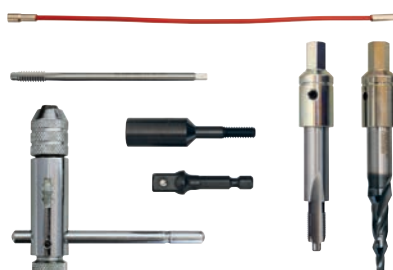
| Code | No. | For engine type | For thread | Storage |
|---------|--------------|-----------------|--------------|---------|
| 3431843 | KL-0132-57 K | Diesel | M8x1 M10x1 | in case |

KL-0132-62 KB

GLOW PLUG TOOL KIT (M10x1.25 universal)



NEW



Suitable for diesel engines with M10x1.25 glow plug thread, e.g. on Opel, Mazda, Ford, Hyundai, Honda, Kia, Mini, Nissan, Toyota, etc.

- For easily boring out torn glow plugs
- For recutting and cleaning the original thread on the cylinder head
- For pulling out the glow plug element
- No need to remove or replace the cylinder head

Accessories:
KL-0369-300 A - Turning lathe

| Code | No. | For engine type | For thread | Storage |
|---------|---------------|-----------------|------------|-----------------|
| 3431770 | KL-0132-62 KB | Diesel | M12x1.25 | In plastic case |

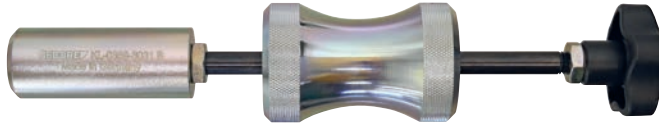
KL-0369-303 A

ASSEMBLY/DISASSEMBLY TOOL FOR GUIDE SLEEVE AND CENTRING SLEEVE

Made in Germany



NEW



Universal fit.

- For forcing in and pressing out guide sleeves and centring sleeves
- In combination with glow plug tool kit - KL-0132-52 KB.

| Code | No. | For engine type | Length | Length of sliding surface | Impact weight |
|---------|---------------|-----------------|--------|---------------------------|---------------|
| 3431517 | KL-0369-303 A | Diesel | 280 mm | 150 mm | 800 g |

KL-0369-305 A

EXTRACTION TOOL FOR GLOW ELEMENT

Made in Germany



NEW



Universal fit.

- For pulling out the glow plug element
- In combination with glow plug tool kit - KL-0132-52 KB.

| Code | No. | For engine type | Drive (hexagon) | Connection thread (spindle) | Length |
|---------|---------------|-----------------|-----------------|-----------------------------|--------|
| 3431495 | KL-0369-305 A | Diesel | 19 mm | M12x1.25 | 185 mm |

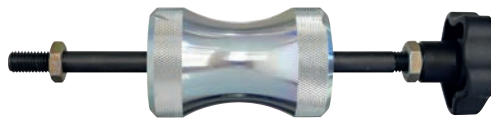
KL-0049-100 A

IMPACT EXTRACTOR BASE UNIT

Made in Germany



NEW



- For pulling out stuck pieces like for example injection glow plugs, spindles etc.
- In combination with the individual adapters or tool kits

| Code | No. | Impact weight | Length | Length of sliding surface | Connection thread | Weight |
|---------|---------------|---------------|--------|---------------------------|-------------------|--------|
| 3423611 | KL-0049-100 A | 800 g | 215 mm | 150 mm | M10 | 1.1 kg |

KL-0049-101 A

IMPACT EXTRACTOR BASE UNIT

Made in Germany



NEW



- Required for pulling out stuck pieces like for example injection glow plugs, spindles etc.
- In combination with the individual adapters or tool kits

| Code | No. | Impact weight | Length | Length of sliding surface | Connection thread | Weight |
|---------|---------------|---------------|--------|---------------------------|-------------------|--------|
| 3423638 | KL-0049-101 A | 800 g | 300 mm | 235 mm | M10 | 1.3 kg |





THE PROFESSIONAL ALL INCLUSIVE PACKAGE!

KL-4998-400

WORKSHOP TROLLEY Passenger car hand tools



NEW

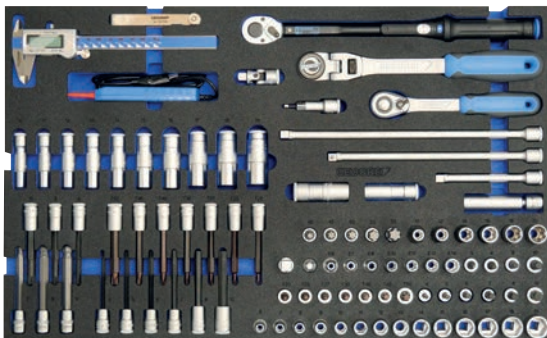
Universally applicable for maintenance and repair work on cars and vans.

- Very extensive and extremely robust hand tool assortment
- Ideal, mobile workplace
- Metric design
- 8 fully stocked drawers
- One empty drawer at the bottom
- Broad drawers with full-extension runners
- Safety locking for each drawer



Drawer 1 (1/4" assortment + pliers assortment)

- **1/4" assortment:** Ratchet bit screwdriver, insert holder, bit box (32 pcs), bit adapter, reversible ratchet, cross-handle, cross-handle ratchet, cardan joint, extensions (55+ 97 + 148 + 305 mm), sockets 12-edge size 4-13 mm / hexagonal size 4-13 mm (long) / TX T10-40 / TX E4-10 / TX PLUS IP10-30 / TX PLUS EP6-12 / cross-head screwdriver PH1-3 / slot 5.5-6.5 / inner hexagon IN3-8)
- **Pliers assortment:** Kraft combination pliers, diagonal cutter, multiple pliers, flat-nose round pliers, universal pliers, circlip pliers kit (4 pcs)
- Offset screwdriver kit (TX T9-40 / hexagonal with ball head size 2-10 mm)
- Grip spanner brake line (11 mm)
- Steel tape measure (5 m)
- Magnetic lifter



Drawer 2 (3/8" assortment)

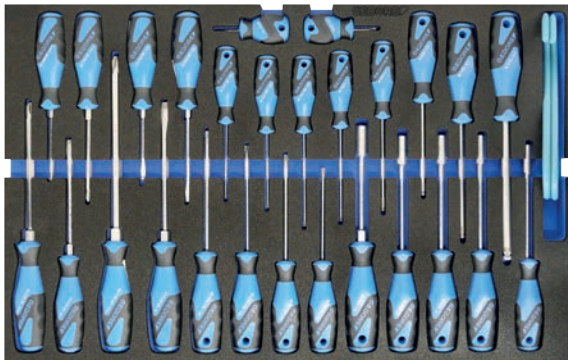
- **3/8" assortment:** Reversible ratchet, articulated reversible ratchet, cardan joint, extensions (125 + 250 + 305 mm), extension with holding magnet, adapter (to 1/2 + to 1/4"), sockets hexagonal size 6-19 / 12-edge size 10-19 (long) / TX T20-50 (short + long) / TX E6-14 / internal hexagon IN4-10 (short + long) / internal hexagon with ball head IN7-11 (long) / XZN M5-10 (short + long) / TX PLUS IP40-60 / TX PLUS EP 10-20), spark plug socket (size 14 + 16 + 18)
- Voltage tester (6-48 Volt AC/DC)
- Torque spanner (3/8", 10-50 Nm)
- Digital caliper
- Feeler gauges



Drawer 3 (1/2" assortment)

- **1/2" assortment:** Reversible ratchet, telescopic reversible ratchet, cross-handle, cardan joint, extensions (125 + 250 mm), extensions with holding magnet, adapter (to 3/8"), sockets hexagonal size 8-32 / TX T27-60 / TX E10-24 / internal hexagon IN5-17 / XZN M5-16 / TX PLUS EP22-32
- Torque spanner (1/4", 40-200 Nm)





Drawer 4 (screwdriver assortment)

- screwdriver assortment hexagonal size 6-10; internal hexagon IN3-8 (with ball head); Cross-head screwdriver PH1-4 (with impact cap); cross-head screwdriver (short); slot 4.5-8 (with impact cap); slot 5.5 (short); TX T10-40
- Universal brake calliper hook pair



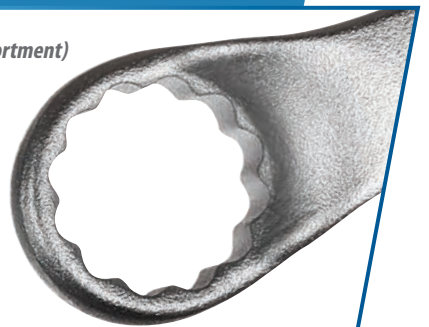
Drawer 5 (striking tool, file, drill assortment)

- Gasket scraper
- Workshop file (10" / round + half-round + flat blunt)
- Brake calliper file
- Metalworker's hammer (400 + 1500 g)
- Soft-faced hammer
- Twist drill kit (1 - 13mm / 25 pcs)
- Pry bar (300 + 390 mm)
- Flat chisel (125 + 150 + 200 mm)
- Cross chisel flat oval
- Pin punch (3 + 4 + 5 + 6 mm)
- Drift punch (2 + 3 + 4 mm)
- Centre punch



Drawer 6 (combination spanner assortment)

- Special locking pliers
- Brake calliper brush
- Combination spanner assortment (size 6-32)



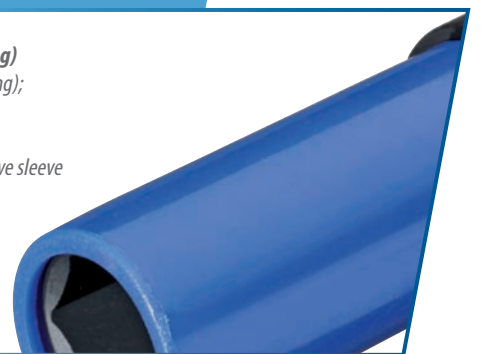
Drawer 7 (screwdriver assortment)

- combination spanner with ring ratchet (size 8-19)
- Double ring spanner (size 6-24, TX E6-24)
- Starter block spanner (size 11-17)
- Double ring spanner, open (size 8-19)



Drawer 8 (1/2" assortment long)

- Sockets hexagonal size 10-32 (long); internal hexagon IN6-14 (long); TX T27-60 (long)
- Power spanner socket with protective sleeve (size 17-22)
- Power spanner socket (size 13-27)
- Cable cutter
- Universal combination scissors



412 pcs

| Code | No. | Number of drawers | Dimensions drawer | Load-carrying capacity of drawers | Dimensions carriage | Total load carrying capacity (static/mobile) |
|---------|-------------|----------------------|-------------------|-----------------------------------|--------------------------|--|
| 3421147 | KL-4998-400 | 9 (bottom one empty) | B 640 x T 400 mm | 40 kg (bottom one 60kg) | H 812 x W 771 x D 478 mm | 1,000 kg / 750 kg |

KL-4991-111

POWER TOOL ORGANIZER

wall-mounted



NEW



Universally applicable.

- For well-organised and convenient storage of up to 5 power drill tools
- With drawer for storing drills, inserts, spare batteries, etc.
- Cable cut-out on the side for chargers
- Perforated panels on both sides for other accessories
- Robust design
- Easy wall mounting

| Code | No. | Width / Height / Depth | Load (max.) | Number of holders | Drawer dimensions | Material | Weight |
|---------|-------------|------------------------|-------------|-------------------|--------------------|-------------|--------|
| 3457230 | KL-4991-111 | 560 x 355 x 255 mm | 110 kg | 5 | 235 x 470 x 100 mm | Sheet steel | 9 kg |

KL-0056-11 EA

SHOCK ABSORBER PISTON ROD TOOL KIT

In foam insert

Made in Germany



Fits universally for McPherson struts on passenger cars.

- For quick loosening and tightening of the the piston rod nut on McPherson struts.

Advantages:

- Holder with 5/16" bit drive
- Holder with 1/4" socket drive
- Open 12 point sockets

Suitability: universally

NEW



18 parts

| Code | No. | Content | Weight |
|---------|---------------|---|--------|
| 3456226 | KL-0056-11 EA | Socket, open SW 16-21 mm, holder for 5/16" bits and 1/4" sockets, Screwdriver bit SW 5-7 mm, T50, XZN12, 2-point socket, 6-8 mm, open-ended spanner with ring ratchet 19 mm, Combination spanner 10 mm, foam insert | 1,5 kg |

KL-0050-510 A

SHOCK ABSORBER PISTON ROD TOOL KIT

Made in Germany



2 parts



NEW

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

- For unscrewing and tightening the shock absorber piston rod nut (locknut)

NOTE:
KL-0080-51 A shock absorber lock nut spanner (Code 3448568) same as KL-0050-510 A but without the Allen key insert

| Code | No. | Designation | Content |
|---------|---------------|------------------------------------|---|
| 3448576 | KL-0050-510 A | Shock absorber piston rod tool kit | Shock absorber lock nut spanner (Mercedes), insert, Allen key, SW 7 |



KL-0186-80 K

PNEUMATIC INJECTOR EXTRACTOR

in a patented
protective housing

NEW

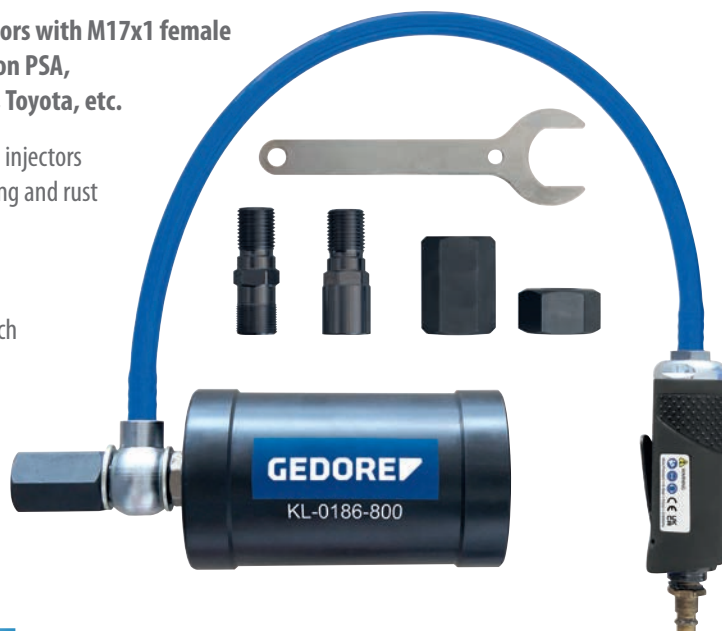


Universal fit for BOSCH and DELPHI diesel injectors with M17x1 female thread and M14x1.5 male thread, for example on PSA, Fiat, Mercedes, VW-Audi, Renault, Nissan, Opel, Toyota, etc.

- For quick, semi-automatic extraction of tight-fitting injectors
- Extremely high impact frequency for loosening coking and rust
- Compact design for confined spaces
- CE certified safety: No exposed moving parts (internal impact weight)
- Safety shut-off: Shut-off by releasing the hand switch
- Thanks to supplementary kits **KL-0186-128... A** or **KL-0186-9...** suitable for many other injectors

Suitability: universally, especially for:

MERCEDES **PSA** **FORD** **VW** **AUDI**
SEAT **ŠKODA** **MAZDA** **VOLVO**



6 parts

§

Did you know that in workplace accidents investigation always focuses on the operator?

Serious accidents at work involving machines without CE marking always result in investigations by the employers' liability insurance association and quite often by the public prosecutor.

With the CE marking, the manufacturer confirms that they comply with all required standards, regulations, directives and laws with regard to safety at the time of delivery. With the particularly safe design of the pneumatic injector extractor, GEDORE strictly meets the regulations of product safety and thus also protects the workshop operator from unpleasant surprises.

Therefore, always check machines for the presence of a CE marking and the accompanying declaration of conformity!

| Code | No. | for injectors | for female thread | for male thread | For engine type | Drive type | Storage |
|---------|--------------|----------------|-------------------|-----------------|-----------------|------------|----------|
| 3461602 | KL-0186-80 K | Bosch / Delphi | M17x1 | M14x1.5 | Diesel | pneumatic | in L-Box |

ENGINE

XXX

KL-0186-903

INJECTOR EXTRACTOR KIT

Supplement to the pneumatic injector extractor



The pneumatic injector extractor is not included.



11 parts

NEW

Universally fits Bosch and Siemens-VDO injectors with a removable fuel connection with M12x1 internal thread (45° angled). For example for VW-Audi, BMW, Mercedes, and PSA.

- For professional extraction of tight-fitting injectors
- Thanks to extension kits **KL-0186-9..** suitable for many other injectors
- Only in combination with **KL-0186-80 K**, **KL-0369-4100**, **KL-0369-4111**, or **KL-0043-300**

Suitability: **MERCEDES** **PSA** **FORD** **VW** **AUDI** **SEAT** **ŠKODA** **MAZDA** **VOLVO**

| Code | No. | for injectors | for female thread | Bracket | For engine type | Drive type |
|---------|-------------|---------------------|-------------------|---------|-----------------|------------|
| 3461610 | KL-0186-903 | Bosch / Siemens-VDO | M12x1 | 45° | Diesel | pneumatic |

KL-0186-901 A

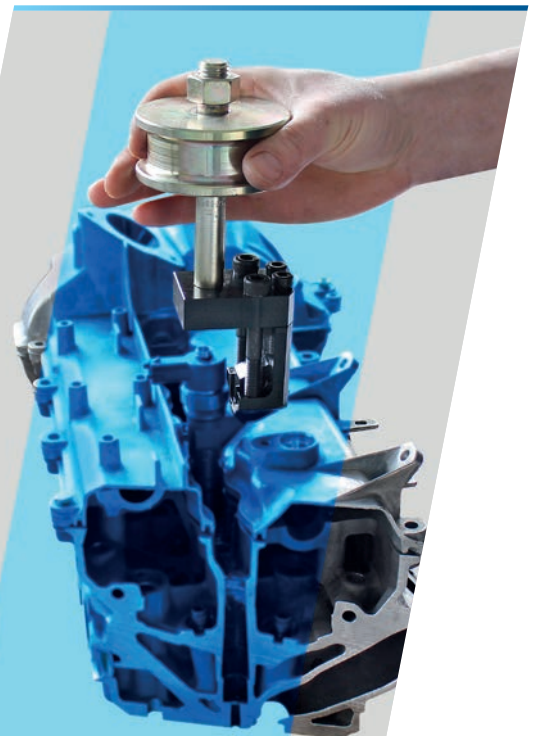
NOZZLE EXTRACTOR M12X1

with impact weight



Universally fits Bosch and Siemens-VDO injectors with a fuel connection female thread of M12x1 / 45°. Installed in many common passenger car engines.

- Required, for example, when replacing the injectors or removing the valve cover
- Opening the injector is not necessary for this purpose as the injector extractor is fastened with the fuel connection by means of the special screws included in the kit.



Suitability: universally

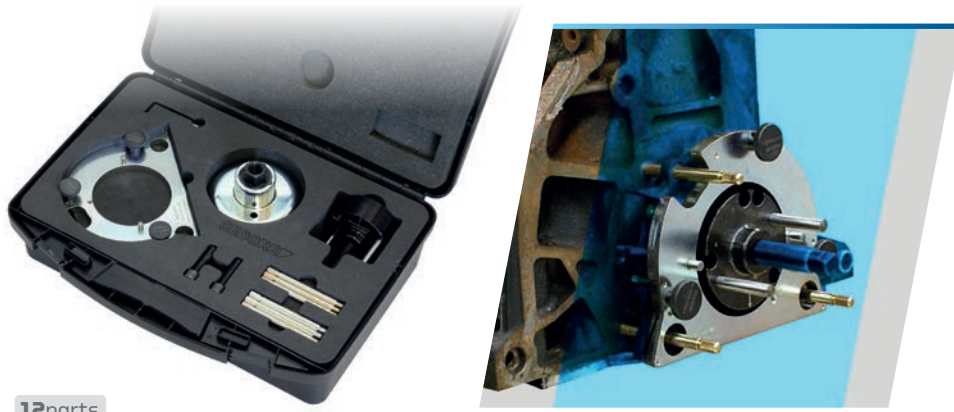
NEW

11 parts

| Code | No. | for injectors | for female thread | Bracket | For engine type | Drive type |
|---------|---------------|---------------------|-------------------|---------|-----------------|------------|
| 3454622 | KL-0186-901 A | Bosch / Siemens-VDO | M12x1 | 45° | Diesel | manuell |

KL-0178-310 K

MOUNTING TOOL FOR SEALING FLANGE



Suitable for crankshaft sealing flanges with shaft seal ring and position encoder wheel with VW-Audi 1.0 + 1.5 TSI as well as 1.6 + 2.0 TDI engines.

- For professional assembly of the crankshaft sealing flange on the gearbox side.
- Exact pressing of the shaft sealing ring
- No errors in the engine control unit or leakage of the new sealing flange due to incorrect installation

NEW

12 parts

| Code | No. | For engine type | Storage | B / H / T |
|---------|---------------|-----------------|---------|--------------------------|
| 3444775 | KL-0178-310 K | Petrol / Diesel | in case | 391 mm / 134 mm / 304 mm |

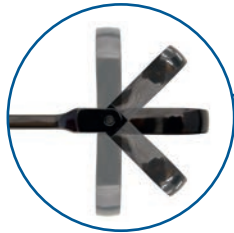
KL-4443-30

DOUBLE ARTICULATED RATCHET RING SPANNER SET



Universal fit for E profile (outside Torx®) screws.

- For unscrewing and tightening of hard-to-access screws
- Highly durable with joint heads on both sides
- Small return angle thanks to fine-toothed design



NEW

4 parts

| Code | No. | Ring profile | Size (waf) | Design | Swivel angle | Storage |
|---------|------------|--------------|------------------------------|------------|--------------|----------------|
| 3438147 | KL-4443-30 | Innen-TX | E6/8, E10/12, E14/18, E20/24 | with joint | 180° | Plastic holder |

R19002676

FASTENING CLIP KIT with disassembly lever

GEDORE red



Universally suitable for cars, commercial vehicles and vans.

- For repairs on door panels, trims, luggage compartment covers, bumpers, etc.
- With a wide range of common fastening clips and expanding rivets
- Incl. self-adhesive foam pads for noise damping, clips with cable ties, and disassembly lever



NEW

676 parts

| Code | No. | Universal |
|---------|-----------|---------------------------------|
| 3300220 | R19002676 | Cars, vans, commercial vehicles |

KL-0194-190

SET OF PLASTIC WEDGES



27 parts

| Code | No. | Length | Storage | Weight |
|---------|-------------|--------|--------------|--------|
| 3457087 | KL-0194-190 | 180 mm | Foldable bag | 1.2 kg |



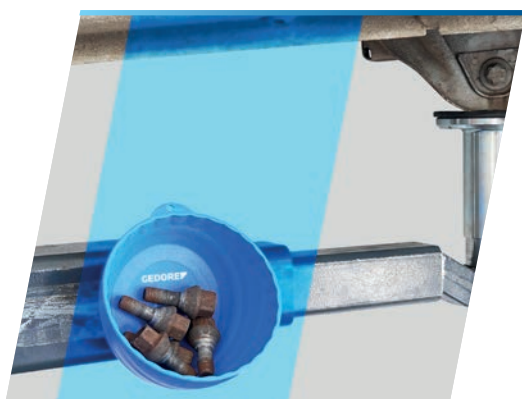
Universally suitable for cars, commercial vehicles, and vans.

- For gentle disassembly of trims, coverings, switches, seals, etc.
- Many different profiles
- Robust, fibre-reinforced nylon plastic
- In a well-organised storage bag

NEW

KL-4911-103

MAGNETIC TRAY



Universell einsetzbar an PKW, NKW und Transportern.

- Zur sicheren Aufbewahrung von Schrauben und Kleinteilen
- Einfache Befestigung an einer magnetischen Oberfläche
- Senkrechte oder waagerechte Anbringung aufgrund der Formgebung möglich

NEW

| Code | No. | Outside diameter | Magnet load | Weight |
|---------|-------------|------------------|-------------|--------|
| 3457133 | KL-4911-103 | 150 mm | 2.5 kg | 450 g |

KL-4911-11...

MAGNETIC MAT



Universally suitable for cars, commercial vehicles, and vans.

- For safe storage and fixing of tools, screws, etc.
- Extremely powerful magnet
- Easy to attach to any magnetic surface
- Can also be used on non-magnetic surfaces
- Structured, padded plastic surface
- Also suitable for delicate surfaces
- Easy to clean, water and oil resistant

NEW

| Code | No. | Dimensions | Colour | Weight |
|---------|-------------|--------------|--------|--------|
| 3457168 | KL-4911-111 | 114 x 114 mm | black | 100 g |
| 3457176 | KL-4911-112 | 280 x 200 mm | black | 400 g |
| 3457184 | KL-4911-113 | 305 x 50 mm | black | 130 g |

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| 643 | Brake Calliper Brush | 68 |
| 8726 | Brake Calliper File | 68 |
| 224021 | Ratchet Pipe Cutter niro | 133 |
| 224211 | Replacement Cutting Wheel | 133 |
| 1.06/AS | Puller set | 143 |
| 1.12/01 | Wiper Arm Puller | 148 |
| 1100-1.04 | Universal puller assortment | 144 |
| 1100-1.30 | Internal extractor assortment | 144 |
| 1100-1.41/2A | Separator and puller set | 144 |
| 1100-1094 | VDE Tool assortment HYBRID, in GEDORE L-BOXX® 136 | 154 |
| 125 0 | Piston ring compressor | 74 |
| 125 1 | Piston ring compressor | 74 |
| 125 2 | Piston ring compressor | 74 |
| 137 7-11 | Grip wrench, Size 11mm | 69 |
| 304 11x13 | Half moon ring spanner | 80 |
| 304 13x15 | Half moon ring spanner | 80 |
| 304 13x17 | Half moon ring spanner | 80 |
| 304 14x16 | Half moon ring spanner | 80 |
| 304 14x17 | Half moon ring spanner | 80 |
| 304 15x17 | Half moon ring spanner | 80 |
| 304 16x18 | Half moon ring spanner | 80 |
| 304 19x22 | Half moon ring spanner | 80 |
| 400 10x11 | Brake Pipe Spanner | 69 |
| 44 3 | Pin-Type Face Spanner, Pin Ø 3mm | 143 |
| 44 4 | Pin-Type Face Spanner, Pin Ø 4mm | 143 |
| 44 5 | Pin-Type Face Spanner, Pin Ø 5mm | 143 |
| 44 6 | Pin-Type Face Spanner, Pin Ø 6mm | 143 |
| 702 20 M | Feeler Gauge Set (20 Blades) | 72 |
| D 19 36 | Special Bi-Hex Socket, waf 36mm | 63 |
| D 19 L 30 | Special Bi-Hex Socket, waf 30mm | 63 |
| D 19 L 32 | Special Bi-Hex Socket, waf 32mm | 63 |
| D 19 L 34 | Special Bi-Hex Socket, waf 34mm | 63 |
| KL-0015 SP | Spring Compressor with Protective Inserts | 17 |
| KL-0025-11 | Pair of Pressure Plates, Size 1 | 23 |
| KL-0025-12 | Pair of Pressure Plates, Size 2 | 24 |
| KL-0025-15 | Pair of Pressure Plates, Size 5 | 24 |
| KL-0025-16 | Pair of Pressure Plates, Size 0A | 24 |
| KL-0025-17 | Pair of Pressure Plates, M-Class | 24 |
| KL-0025-20 E | Spring Compressor (Short Design) with Pressure Plates Size 1+2 | 23 |
| KL-0029-100 EB | Coil Spring Pre-Compressor, in a Foam Insert | 4 |
| KL-0029-110 A | Upgrade Kit, Size 1, Size 2, Size 3, VW-Audi | 5 |
| KL-0029-120 A | Upgrade Kit, Size 2, VW-Audi | 5 |
| KL-0029-122 | Upgrade Kit for KL-0029-120 A, VW-Audi | 5 |
| KL-0029-130 A | Upgrade Kit, Size 3, VW-Audi | 6 |
| KL-0029-1303 | Shock Absorber Holding-Down Clamp | 7 |
| KL-0029-150 | Upgrade Kit, Size 5, Ford | 6 |
| KL-0029-160 A | Upgrade Kit, Size 6 (BMW) | 6 |
| KL-0029-170 | Upgrade Kit, Size 7, VW T5 | 6 |
| KL-0033-10 E | Compact Internal Coil Spring Compressor, Size 2A | 21 |
| KL-0033-16 | Pair of Pressure Plates, Size 0A | 22 |
| KL-0033-300 E | Holding-Down Tool Kit, in a Foam Insert | 22 |
| KL-0039-0110 K | Wheel Bearing Tool Set (Mechanical Drive) | 46 |
| KL-0039-1002 | Retaining Adaptor, for Clamping Nut and Pressure Spindle | 161 |
| KL-0039-1003 | Retaining Adaptor, for Hydraulic Cylinder | 161 |
| KL-0039-1011 | Retaining Adaptor for Mechanical Spindle | 161 |
| KL-0039-1105 | Adaptor with O-Ring, 2¼"-14 UNS to Ø 30mm | 169 |
| KL-0039-1140 | Press Frame (Lightweight, Short Design) | 169 |
| KL-0039-1144 V | Base Plate 2¼"-14 UNS Reinforced | 169 |
| KL-0039-115 | Frame Bars (Pair), 350mm long, with Hex Nuts | 169 |
| KL-0039-1161 E | Press Frame Kit, without Drive, in a Foam Insert | 168 |

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| KL-0039-1415 | Centring Ring, Ø 80mm | 49 |
| KL-0039-160 E | Press/Support Sleeve Set, Ø 30-90mm, short, 45mm, in a Foam Insert | 37 |
| KL-0039-1601 | Press/Support Sleeve Set Ø 30-68mm (Short Design), with Guide Pins | 37 |
| KL-0039-170 E | Press/Support Sleeve Set, Ø 30-90mm, long, 115mm, in a Foam Insert | 38 |
| KL-0039-1701 | Press/Support Sleeve Set Ø 30-68mm (Long Design), with Guide Pins | 38 |
| KL-0039-1910 | Pull Spindle M10x1,25 with Nut | 159 |
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| KL-0039-1912-1 | Pull Spindle | 158 |
| KL-0039-1912-2 | Clamping Nut | 158 |
| KL-0039-1912-3 | Clamping Nut | 158 |
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| KL-0039-213 | Sleeve Set, Mercedes W639 Rear Axle | 50 |
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