

Engine Maintenance/Repairs

6

High-Quality Special Tools... ...durable, safe and innovative



KIS

Klann Information System

The GEDORE/KLANN Information System „KIS“

Almost everyone has at some time experienced problems when it came to converting OEM Tool Numbers to the tool they needed.

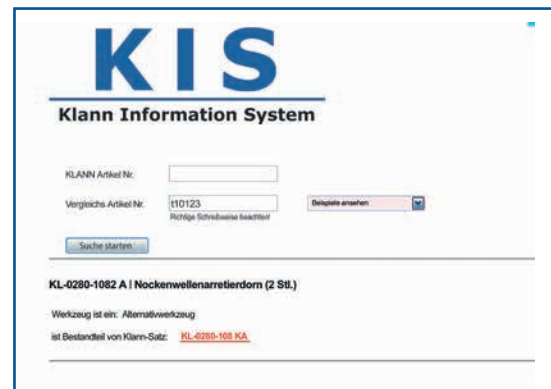
You have the OEM Tool Number from the repair manual and are now looking for the GEDORE/KLANN Special Tool. Converting OEM numbers to GEDORE/KLANN Special Tools has been so far very time-consuming for both garages and wholesalers. In order to solve this problem, we are now offering the Klann Information System „KIS“ on „www.klann-online.de“

This extensive OEM Part Number Data Base is designed to help you find the corresponding GEDORE/KLANN Part Number with ease.

Our system allows garages to quickly and easily identify the GEDORE/KLANN Special Tool they are looking for - for example, for the replacement of a timing belt.

The forward-looking Klann Information System „KIS“ is constantly updated and enhanced with new product ranges, thus always providing the latest information on the full range of the high-quality special tools and services from GEDORE/KLANN.

Easy determination of the right tool for the professional and trouble-free repair thanks to KIS - keeping it simple.



Converting OEM Tool Numbers to GEDORE/KLANN Part Numbers



KIS goes mobile...

For ultimate convenience and accessibility, GEDORE/KLANN now offers you the possibility to take full advantage of the “KIS” information system from the comfort of your mobile phone: quickly and easily convert OEM part numbers to GEDORE/KLANN specialist tools - wherever you are and whenever you need it.

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KL-0124-65 K Universal Cooling System Pressure Tester

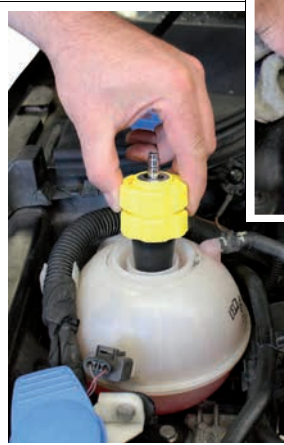
Universally applicable to passenger cars and HGVs with coolant filler necks having an inner Ø of 28-36mm.

The universal **KL-0124-65 K** Cooling System Pressure Tester allows for the quick and easy pressure testing of cooling systems for leaks. The universal adaptor that comes with the kit ensures an airtight seal at the interface to the coolant/coolant filler neck and replaces more than 20 vehicle-specific radiator cap adaptors for passenger cars and HGVs.

Scope of Delivery:

KL-0121-20 Set of Hose Clamps (4-Piece Set)

Part No.	Description	Qty
KL-0124-651	Pump with Pressure Gauge	1
KL-0124-652	Universal Adaptor	1
KL-0124-653	Safety Belt	1
KL-0124-6590	Plastic Storage Case	1



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KL-0284-8 Holding Tool

Applications: VW Polo, Golf, Passat and Audi A4, etc.

Designed to counter-hold the pulley on the power steering pump. For example necessary when loosening and tightening the fastening screws on the pulley.

Advantages:

- The 1/2" drive in the tool handle enables the tool to be extended, for example by a ratchet.
- Facilitates the loosening of stubborn fastening screws on the pulley.

Technical Data:

Length:	Height:	Inner Ø:	Screw retaining Ø:	Weight:
250mm	17mm	31mm	14mm	450g



KL-0284-11 Water Pump Holding Tool

Applications: VW-Audi etc.

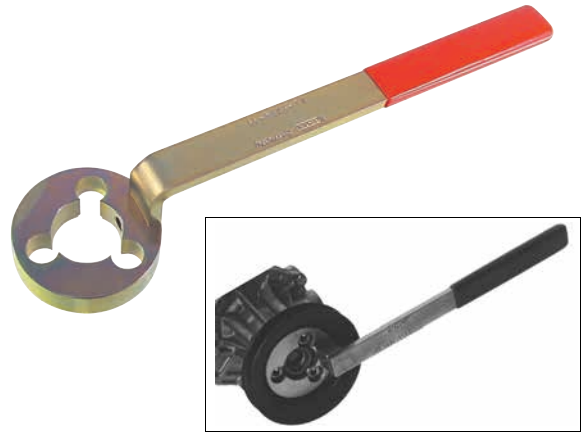
Designed to counter-hold **deep-drawn** water pump pulleys that are used when an air conditioning system is installed. For example necessary when loosening and tightening the fastening screws on the pulley.

Advantages:

- Safe locking of the water-pump pulley via the fastening screws.
- Facilitates the loosening of stubborn fastening screws on the water pump pulley.

Technical Data:

Length:	Height:	Inner Ø:	Screw retaining Ø:	Weight:
300mm	40mm	31mm	14mm	450g

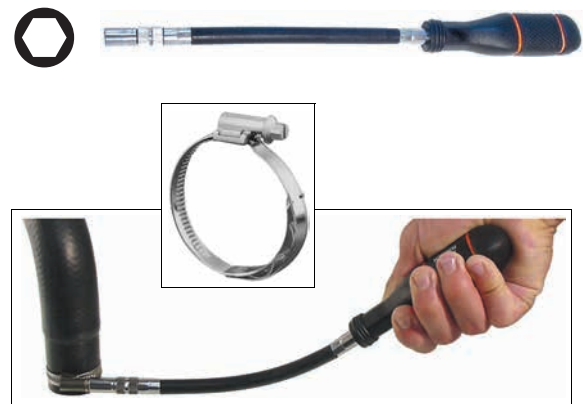


KL-0121-82 Hose Clamp Screwdriver, Size 6/7mm (waf)

For the quick and easy loosening and tightening of worm-drive hose clamps with size (waf) 6mm and 7mm - e.g. those used on fuel lines, oil coolers, radiator hoses and heater hoses. Even hose clamps that are hard to access can be reached without any problems thanks to the long, flexible shank of the tool.

Technical Data:

Size (waf):	6/7mm
Screwdriver overall length:	325mm
Shank length:	205mm
Weight:	160g



KL-0121-90 Hose Clamp Pliers

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

For the tightening of ear clamps (Oetiker System) on axle boots, radiator and fuel hoses.

Advantages:

- No damage to the ear clamps.
- No damage to the hoses.
- Thanks to the special design of the tool, the clamp head is being flattened while tightening the clamp. An important feature for applications where space is at a premium.

Technical Data:

Length:	240mm
Weight:	492g



KL-0121-93 Hose Clamp Pliers

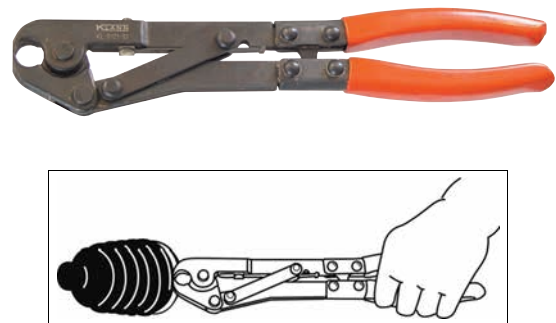
Suitable for use on Audi, BMW, Chrysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/Vauxhall, VW etc.

Efficient transmission of force and 2 working stages.

For the tightening of ear clamps (Oetiker System) on axle boots, radiator and fuel hoses.

Technical Data:

Length:	280mm
Weight:	475g





KL-0121-24

Hose Clamp Pliers (Angled 90°) with Ratchet Locking Mechanism

Suitable for Alfa Romeo, Audi, Citroën, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.

Designed for the replacement of fuel line, oil line, radiator and water hoses which are not retained by „Jubilee Type“ clips, but by reusable, self-tensioning hose clips. Special design of the pliers allows hose clips to be securely and safely gripped and held.

The hose clamp pliers enable the following clamps to be opened: Norma, ABA (AWAB), MIKALOR, MUBEA with Ø of from 18-53mm.

Technical Data:

Clamp Ø:	18-53mm
Length:	225mm
Clamp Angle:	90°
Weight:	403g



KL-0121-22

Hose Clamp Pliers (Straight Design) with Ratchet Locking Mechanism

Suitable for Alfa Romeo, Audi, Citroën, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.

Designed for the replacement of fuel line, oil line, radiator and heater hoses which are not retained by „Jubilee Type“ clips, but by reusable, self-tensioning hose clips. Special design of the pliers allows the hose clips to be securely and safely gripped and held.

The hose clamp pliers enable the following clamps to be opened: Norma, ABA (AWAB), MIKALOR, MUBEA with Ø of from 18-53mm.

Technical Data:

Clamp Ø:	18-53mm
Length:	273mm
Weight:	390g



KL-0121-23

Hose Clamp Pliers (Angled 110°), with Ratchet Locking Mechanism

Suitable for Alfa Romeo, Audi, Citroën, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.

Designed for the replacement of fuel line, oil line, radiator- and water hoses which are not retained by „Jubilee Type“ clips, but by reusable, self-tensioning hose clips. The special design of the pliers ensure that hose clips are safely gripped and securely held. The hose clamp pliers enable the following clamps to be opened: Norma, ABA (AWAB), MIKALOR, MUBEA with Ø of from 18-53mm.

Technical Data:

Clamp Ø:	18-53mm
Length:	285mm
Clamp Angle:	110°
Weight:	425g

KL-0121-21

Hose Clamp Pliers with Remote Operation (Bowden Cable with Flexible Tube)

With automatic locking ratchet.
Designed for the replacement of fuel lines, oil lines, radiator and water hoses, which are not retained by „Jubilee“ type clips, but by reusable, self-tensioning hose clips. The special design of the pliers ensure that hose clips are safely gripped and securely held.
Due to the possibility of pre-adjustment, the flexible tube ensures that even positions that are hard to access can be reached quickly and without any trouble.

Technical Data:

Clamp Ø:	18-53mm
Weight:	450g
Length:	225mm



KL-0121-2101

Bowden Cable with Flexible Tube (Spare)

KL-0121-2101



KL-0121-25

Hose Clamp Pliers with Remote Operation, Ratchet Locking Mechanism

Suitable for Alfa Romeo, Audi, Citroën, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.

This tool is designed to open self-tensioning hose clips, for example when replacing fuel line, oil line, radiator and heater hoses.
Remote operation enables even hard-to-access areas to be reached quickly and without any trouble. The special design of the pliers ensures that hose clips are safely gripped and securely held.

Technical Data:

Clamp Ø:	18-53mm
Length:	225mm
Clamp Angle:	90°
Weight:	403g

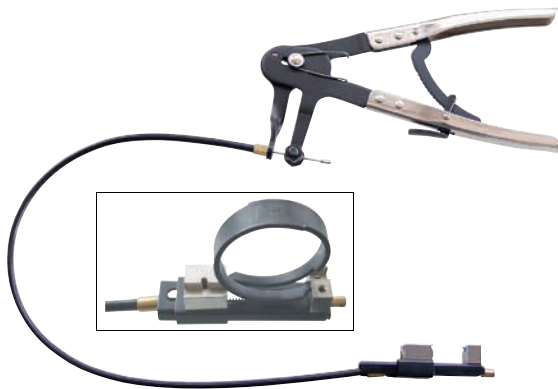


KL-0121-2501

Bowden Cable (Spare)

KL-0121-2501





KL-0121-181 Hose Clamp Pliers with Remote Operation

Suitable for VW-Audi vehicles.

With automatic locking ratchet.

The pliers allow the user to quickly and easily open the newly developed turbo hose clips without damaging or, even worse, destroying them. Without the use of this tool it is almost impossible to open a hose clip without damaging the hose. Thanks to their remote operation, the pliers are particularly suitable for areas with difficult access, such as the charge air hose coupling under the battery box on VW Passat 2.0 TDI. The removal of the battery box is not necessary.

Advantages:

- Universal application.
- The tool is easy to operate.
- Does not damage the hose.

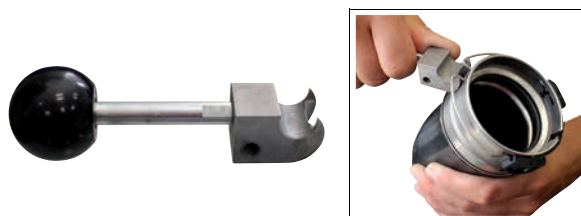
Technical Data:

Length:	240mm
Weight:	650g

KL-0121-1811



KL-0121-1811 Bowden Cable (Spare)



KL-0124-59 Removal Tool for HENN® Clamps

Universally suitable for HENN® clamps as found on coolant hoses/charge air hoses. Installed, for example, in the following vehicles: VW-Audi, Seat, Škoda, BMW, Peugeot, Citroën, Dacia, Fiat, Ford, Kia, Lexus, Mazda, Mercedes, Nissan, Opel/Vauxhall, Porsche, Renault, Toyota, Volvo etc.

Designed for the professional loosening/opening of HENN® Clamps as found on coolant hoses/charge air hoses in passenger cars. An indispensable tool when removing/installing coolant hoses/charge air hoses etc.

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KL-0284-82 K Water Pump Tool Set, VW T5/Touareg

Applications:

- **VW Transporter T5 (from 2004 onwards) 2.5 TDI (engine: AXE, AXD, BNZ)**
- **VW Touareg (from 2003 onwards) 2.5 TDI (engine: BAC, BPE)**

The tool set **KL-0284-82 K** is designed to turn the crankshaft, for example to TDC position, to counter-hold the crankshaft, for example when loosening the crankshaft central screw or the water pump sprocket fastening screw. It can also be used for the removal/extraction of the water pump sprocket and the water pump.

Advantages:

- Easy and quick extraction of the water pump.
- Accurate and professional working.
- Substantial time savings.

Technical Data:

Weight:	1.4kg
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Scope of Delivery: KL-0284-82 K Water Pump Tool Set, VW T5/Touareg

Part No.	Description	Qty
KL-0284-821	Water Pump Sprocket Puller; to remove the water pump sprocket when removing the water pump.	1
KL-0284-822 A	Water Pump Puller. Required for removing the water pump.	1
KL-0284-823	Key for Rotating the Crankshaft, VW. Designed to rotate/counter-hold the crankshaft. Necessary when setting the engine shafts to TDC position, and when loosening the sprocket fixing screw, for example, on the water pump.	1
KL-0284-8290	Plastic Storage Case (empty)	1



KL-0284-821



KL-0284-822 A



KL-0284-823



KL-0121-20

Set of Hose Clamps (4-Piece Set)

Used to clamp/close hoses during repairs.
For fuel, brake and water lines with Ø of from 10-45mm.

Scope of Delivery:
KL-0121-20 Set of Hose Clamps (4-Piece Set)

Part No.	Description	Qty
KL-0121-1	Clamp for Hose Ø of up to 10mm	1
KL-0121-2	Clamp for Hose Ø of up to 15mm	1
KL-0121-3	Clamp for Hose Ø of up to 24mm	1
KL-0121-4	Clamp for Hose Ø of up to 45mm	1



KL-0121-10

Set of Hose Clamps (3-Piece Set)

Used to clamp/close hoses during repairs.
For fuel, brake and water lines.

Scope of Delivery:
KL-0121-10 Set of Hose Clamps (3-Piece Set)

Part No.	Description	Qty
KL-0121-1	Clamp for Hose Ø of up to 10mm	1
KL-0121-2	Clamp for Hose Ø of up to 15mm	1
KL-0121-3	Clamp for Hose Ø of up to 24mm	1



KL-0121-511

Hose Clamp Pliers

With automatic locking ratchet. (Release of the locking mechanism takes place automatically when opening the pliers; unlocking the ratchet is not necessary.) Thanks to the special design of the flexible clamping jaws, damage to the hose is avoided during the clamping process. For the quick and easy clamping of hoses such as water hoses, fuel lines etc. with Ø of up to approx. 35mm.

Technical Data:

Weight:	334g
Length:	245mm
For hose Ø:	of up to approx. 35mm



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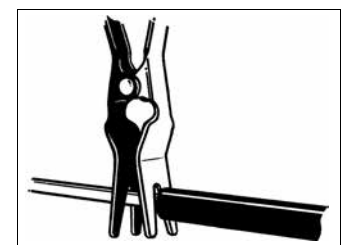
KL-0121-70

Hose Removal Pliers

Designed for the quick removal (loosening) of fuel, air and water hoses featuring a diameter of from 4mm to 13mm. The gunmetal-finish jaw of the pliers cramps the metal tube while the hose is being easily pushed off by the bright-finish jaw.

Technical Data:

Length:	200mm
Weight:	227g





KL-0121-26 Hose Clamp Pliers with Ratchet Locking Mechanism

Suitable for Alfa Romeo, Citroën, Fiat, Ford, Hyundai, Lancia, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Škoda, Toyota, Volvo, etc. especially required for the new clips on fuel lines on VW-Audi vehicles.

For the removal and installation of fuel lines, oil lines, radiator hoses and heater hoses fitted with space-saving, re-usable, self-clamping spring hose clips. The special design of the pliers ensures that the hose clips are safely gripped and securely held. The following makes of hose clips require these pliers: Norma, ABA (AWAB), MIKALOR and MUBEA etc.

KL-0121-28 Hose Clamp Pliers (angled 90°), with Ratchet Locking Mechanism

Suitable for Alfa Romeo, Citroën, Fiat, Ford, Hyundai, Lancia, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Škoda, Toyota, Volvo, etc. especially required for the new clips on fuel lines on e.g. VW-Audi vehicles.

For the removal and installation of fuel lines, oil lines, radiator hoses and heater hoses fitted with space-saving, re-usable, self-clamping spring hose clips. The special design of the pliers ensures that the hose clips are safely gripped and securely held. 90° angled pliers with laterally offset retaining slots.

Following makes of hose clips require these pliers: Norma, ABA (AWAB), MIKALOR and MUBEA etc.



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KL-0121-29 Hose Clamp Pliers with Ratchet Locking Mechanism

Suitable for Alfa Romeo, Citroën, Fiat, Ford, Hyundai, Lancia, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Škoda, Toyota, Volvo, etc. especially required for the new clips on fuel lines on VW-Audi.

For the removal and installation of fuel lines, oil lines, radiators hoses and heater hoses fitted with space-saving, re-usable, self-clamping spring hose clips. The special design of the pliers ensures that hose clips are securely gripped and safely held.

Pliers with vertically mounted retaining slots.

Following makes of hose clips require these pliers: Norma, ABA (AWAB), MIKALOR and MUBEA etc.

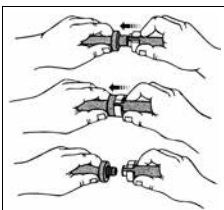
KL-0121-36 Set of Release Clips

Suitable for Chrysler, Ford, GM, Opel/Vauxhall, Saab, VW etc.

The release clips of the KL-0121-36 set are designed to unlock the CLIC spring lock couplings on air-conditioning systems and fuel lines.

The couplings of different sizes are to be unlocked from the front side.

Sizes: 7.9mm (5/16"), 9.5mm (3/8"), 12.7mm (1/2"), 15.9mm (5/8"), 19mm (3/4"), 22.2mm (7/8").



KL-0121-94 Hose Clamp Pliers

For CLIC clips.

Suitable for Audi, Citroën, Fiat, Mercedes, Opel/Vauxhall, Peugeot, Renault, VW etc.

Used to open and close the reusable hose clamp types CLIC and CLIC-R (Caillau/Serflex).

Technical Data:

Weight:	270g
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KL-0121-340 Set of 3 Fuel Line Pliers

Pliers designed to open connectors on fuel lines. Suitable for Chrysler, Chevrolet, Citroën, Fiat, Ford, Opel/Vauxhall, Peugeot, Pontiac, Renault, VW etc.

On fuel lines connected by "snap-fit" connections, the connectors can be released using pliers KL-0121-32 for Ø 8mm, and KL-0121-33 for Ø 10mm fuel lines. (The release segments are to be found on the reverse side of the connector in the axis of the line).

For connectors on Opel/Vauxhall, GM, Fiat, etc. where the release segments are activated from the side, the KL-0121-34 pliers (2 tips 6.5x6mm) are required.

Technical Data:

	KL-0121-32	KL-0121-33	KL-0121-34
Fuel Line Ø:	8mm	10mm	GM/Opel/Vauxhall
Length:	110mm	110mm	115mm
Weight:	75g	75g	70g

Scope of Delivery: KL-0121-340 Set of 3 Fuel-Line Pliers

Part no.	Description	Qty
KL-0121-32	Fuel Line Pliers, for Ø 8mm	1
KL-0121-33	Fuel Line Pliers, for Ø 10mm	1
KL-0121-34	Fuel Line Pliers, for GM/Opel/Vauxhall	1



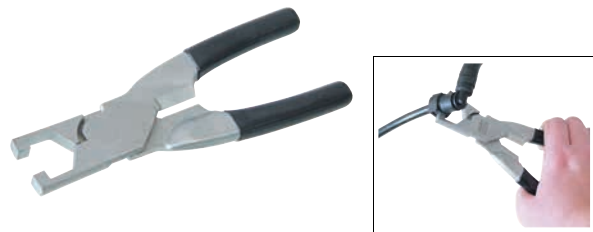
KL-0121-37 Fuel Line Pliers

Suitable for Opel/Vauxhall, Fiat, GM, VW etc.

For loosening the quick-release connections on fuel feed pipe lines where the unlocking segments can be reached from the side.

Technical Data:

Weight:	190g
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KL-0192-22 Safety Clip Pliers

Suitable for VW-Audi, e.g.: Audi A3, VW Golf IV vehicles fitted with a petrol engine. Used to release fuel line connectors. Indispensable, for example, when changing the fuel filter.

Suitable for Mercedes W124, W140 and W202.

For the installation of the retaining clips securing the chrome strip on the bumper of Mercedes W124, W140 and W202.

For this purpose, the pliers are equipped with special clip retaining notches.

Technical Data:

Length:	210mm
Weight:	200g



KL-0121-38 Fuel Line Pliers

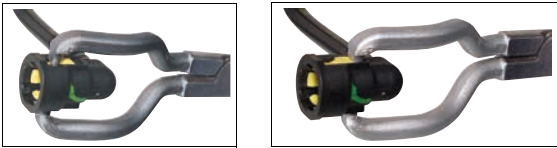


Suitable for VW-Audi, Fiat, GM, Opel/Vauxhall, Mercedes etc., e.g. Mercedes M-Class with petrol engine.

This tool is used for unlocking and locking fuel line connectors on fuel filters. Required when replacing a fuel filter or during engine repairs.

To open the locking: Pull the unlocked connector backwards with the pliers.

To close the locking: Slide the connector forwards with the pliers to lock.



Technical Data:

Length:	225mm
Weight:	170g

KL-0511-50 Disconnect Tool for Leakage Fuel Line



Applicable to the BMW M57 (D306D2, D306D3, D306D4, D306D5, D30T2) 6-cylinder Diesel engines. As installed in BMW 3 Series (E90, E91, E92, E93); 5 Series (E60, E61); 6 Series (E63, E64); 7 Series (E65, E66); X3 (E83); X5 (E70) and X6 (E71).

Indispensable tool to professionally disconnect the leakage fuel line from injectors. Improper removal methods, for example, by using a pair of pliers, may cause damage to the leakage fuel line resulting in the entire line in the engine compartment to be replaced.

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KL-0482-42 B Diesel Suction Pump with 70cm Hose, Opel/Vauxhall



Suitable for use on Opel/Vauxhall 2.0 and 2.2 Ecotec Diesel engines with VP 44 injection pump. (Engine codes: X20DTL, X20DTH, X22DTH)

This pump is needed to bleed the fuel system if the latter has been opened, for example, for a fuel filter replacement or for an engine repair.



KL-0482-420 B



KL-0482-420 B Hose, 700mm

The 700mm hose **KL-0482-420 B** upgrades the **KL-0482-42 A** diesel suction pump to the **KL-0482-42 B** version.

KL-0124-41 K Pressure- and Vacuum Hand Pump

Universally applicable. Allows for the quick and easy checking of pressure- and vacuum systems as well as for the extraction of liquids such as fuels, brake fluids etc. (e.g. when bleeding the brake).

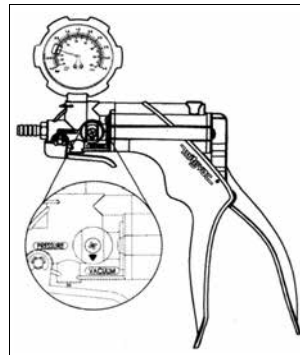
Especially required for checking the following:
Fuel-System, Vacuum Diaphragm, Vacuum Sensor, Exhaust Gas Recirculation Valve, Fuel Pressure Regulator, Vacuum Modulator on, e.g., Automatic Transmission, Brake Booster, Turbo Charger Valves, Fuel Pump Diaphragm, Leak Tightness on Lines etc.

Technical Data:

Vacuum measuring range:	from 0-1.0 bar
Pressure measuring range:	from 0-4.0 bar
Display:	Pressure gauge
Max. volume of drain bottle:	500ml
Weight:	1.4kg

Scope of Delivery: KL-0124-41 K Pressure- and Vacuum Hand Pump

Part No.	Description	Qty
KL-0124-4100	Hand Pump with Pressure Gauge	1
KL-0124-4101	Bleeding Adaptor Set	1
KL-0124-4102	Vacuum Cap Set	1
KL-0124-4103	Diagnostic Adaptor Set	1
KL-0124-4104	Drain Bottle set	1
KL-0124-4105	Hose (2 pieces)	1
KL-0124-4106	Hose Connector	1
KL-0124-4190	Plastic Storage Case	1



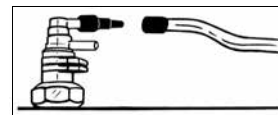
KL-0121-75 Set of Vacuum Line Plugs

Universally suitable for pressure, vacuum and fuel lines.

The pairs of plugs of this set are used for sealing off pressure-/vacuum- and fuel lines. The different pairs of plugs are colour-coded for easy line identification after repairs. The set contains 48 different adaptors of from 3.2mm (1/8") to 12.7mm (1/2").

Technical Data:

Weight:	200g
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KL-0121-61 K Universal Line Clamp Set

Universally suitable for brake, fuel, hydraulic and power steering lines with 5/16", 3/8", 1/2" union nuts and banjo fittings.

Used to seal off opened line connections on brake, fuel, hydraulic and power steering line systems. The universal line clamps are designed to help you prevent any leakage of automotive fluids from opened lines, thus eliminating the risk of contamination of the workplace.

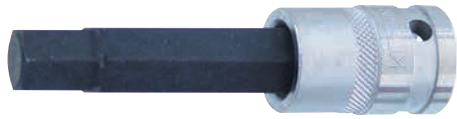
Technical Data:

Size:	5/16", 3/8", 1/2", Banjo-Fitting
Length:	109mm

Scope of Delivery: KL-0121-61 K Universal Line Clamp Set

Part No.	Description	Qty
KL-0121-611	Line Clamp, 5/16"	1
KL-0121-612	Line Clamp, 3/8"	1
KL-0121-613	Line Clamp, 1/2"	1
KL-0121-614	Line Clamp	1
KL-0121-6190	Plastic Storage Case	1





1/2"

KL-4021-3113

Screwdriver Bit Socket, Size (waf) 13mm, 100mm, 1/2"

Applicable to the 4-Cylinder TDI Pumpe Düse (unit injector) engines as found in VW-Audi, Seat, Škoda vehicles.

The special socket **KL-4021-3113** allows for the quick and trouble-free loosening and tightening of the central retaining bolt on fuel cooling units - necessary, for example, when replacing the fuel filter. This special socket may also be used to remove and install the brass inserts on injector valves in Audi petrol engines from 1990 onwards.

Technical Data:

Drive:	1/2"
Profile:	Hex.
Length:	100mm
Size:	13mm



KL-0120-80

Fuel Tank Sensor Spanner Set (adjustable)

Universal application.

For loosening and tightening the plastic lock ring of the fuel sensor on fuel tanks.

Scope of Delivery: KL-0120-80 Fuel Tank Sensor Spanner Set (adjustable)

Part No.	Description	Range:	Drive:
KL-0120-801	Fuel Tank Sensor Spanner, Ø 80-120mm	80-120mm	24mm
KL-0120-802	Fuel Tank Sensor Spanner, Ø 110-170mm	110-170mm	24mm



1/2"



KL-0122-56

Fuel Filter Socket, Size (waf) 27mm

Suitable for the Citroën, Peugeot, Fiat and Ford 2.0 HDI Diesel engines as found in: Citroën C4, C5, C8, Jumpy; Peugeot 307, 308, 407, 508, 607, 807, Expert; Fiat Scudo, Ulysse; Ford C-Max, Focus, Galaxy, Kuga, S-Max.

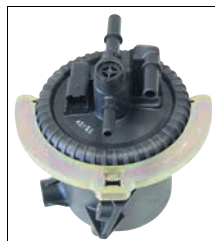
This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

Technical Data:

Drive (square):	1/2"
Length:	85mm
Size:	27mm



3/8"



KL-0122-701

Fuel Filter Socket, Ø 109mm

Suitable for the Peugeot, Citroën, Fiat, Lancia, Suzuki vehicles equipped with either a 2.0 or 2.2 HDI Diesel engine such as: Peugeot 206, 307, 406, 607, 807; Citroën C5, C8, Berlingo, Jumpy, Xsara; Fiat Scudo, Ulysse; Lancia Phedra, Zeta; Suzuki Vitara, Grand Vitara I.

This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

Technical Data:

Profile:	Ø 109mm
Drive (square):	3/8"

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm



KL-0122-702

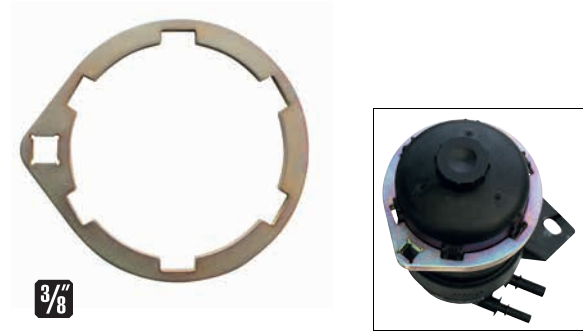
Fuel Filter Socket, Ø 82mm

Suitable for Volvo Diesel vehicles equipped with fuel filter cartridge such as S60, S80, V70, XC70, XC 90, with 2.4 D or 2.4 D5 engines.

This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

Technical Data:

Drive:	3/8"
Internal Ø:	82mm
Ribs:	6 ribs



KL-0122-608

Fuel Filter Socket, Ø 109mm

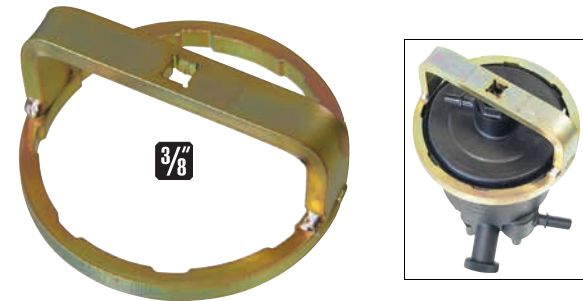
Suitable for Peugeot, Citroën, Renault, Fiat and Lancia etc.

For Fuel Filter with Ø 109mm and 8 Ribs.

This fuel filter socket is required to remove and install the fuel filter cap when replacing the fuel filter cartridge.

Technical Data:

Drive (square):	3/8"
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KL-0122-610

Fuel Filter Socket, Ø 109mm, 6 Ribs

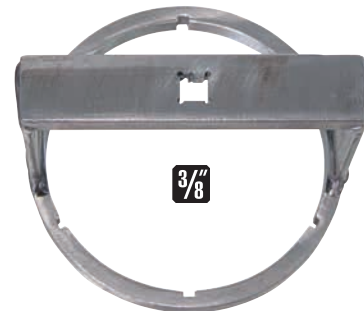
Suitable for Fiat 1.3, 1.9 JTD and Opel/Vauxhall 2.0 Diesel engines: Antara (from 2007 onwards), Insignia (from 2009 onwards). Engine code : A 20 DTJ, Z 20 DMH.

For fuel filters with Ø 109mm and 6 ribs.

This fuel filter socket is intended for the removal and installation of the fuel filter cap when replacing a fuel filter cartridge.

Technical Data:

Drive (square):	3/8"
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KL-0289-10

Fuel Filter Cap Installation Tool

Suitable for the VW-Audi, Seat and Škoda Diesel vehicles fitted with a UFI fuel filter unit.

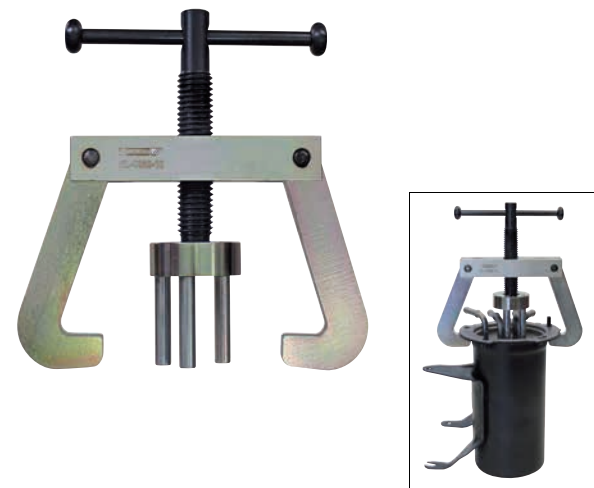
Very useful tool allowing for the torsion-free mounting of fuel filter caps on fuel filters; required, for example, after changing the fuel filter cartridge.

The fuel filter cap installation tool is designed to press the fuel filter cap evenly and in a torsion-free manner into the seal seat in the fuel filter housing. Then, the fuel filter can be fixed according to the manufacturer's instructions.

Scope of Delivery:

KL-0289-10 Fuel Filter Cap Installation Tool

Part No.	Description	Qty
KL-0289-102	Spindle with T-Handle	1
KL-0289-101	Base Tool	1
KL-0289-103	Thrust Piece	1



Note: If a fuel filter cap is inserted into the seal seat in the fuel filter housing without the use of our special tool but by means of the fastening screws, there is a risk that the fuel filter cap is subjected to torsional stress during installation which could lead to leakage in the fuel filter unit.



KL-0123-61 K Fuel Filter Bleeding Tool Kit

Universal application.

Designed to enable easy bleeding of fuel systems; for example, after changing the fuel filter or having performed maintenance work on the fuel system.

Thanks to the adaptors included in the kit, the bleeding tool is compatible with and can quickly be connected to virtually any common fuel system.

The clear hose of the fuel filter bleeding tool (suction side) allows the user to visually check for air bubbles during the bleeding process.

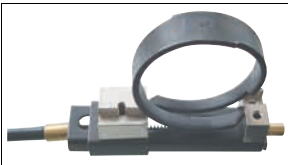
Scope of Delivery:

KL-0123-61 K Fuel Filter Bleeding Tool Kit

Part No.	Description	Qty
KL-0123-6101	Adaptor Hose, 8mm, 1m long	1
KL-0123-6102	Hand Pump with Hoses, 0.5m	1
KL-0123-4811-1	Adaptor SAE, 8x20mm (red)	1
KL-0123-4812-1	Adaptor SAE, 8x30mm (yellow)	1
KL-0123-4813-1	Adaptor SAE, 9.5x20mm (grey)	1
KL-0123-4814-1	Adaptor SAE, 10x20mm (green)	1
KL-0123-4815-1	Adaptor SAE, 10x30mm (blue)	1
KL-0123-4816-1	Adaptor NG8 Type 246 (white)	1
KL-0123-4817-1	Adaptor, Ø 6mm (light blue)	1
KL-0123-4818-1	Adaptor, Ø 8mm (pink)	1
KL-0123-4819-1	Adaptor, Ø 10mm (purple)	1
KL-0123-4820-1	Adaptor, 11.8x25mm (brown)	1
KL-0123-4821-1	Adaptor NG12 Type 246 (orange)	1
KL-0123-4822-1	Adaptor, Ø 12mm (black)	1
KL-0123-6190	Plastic Storage Case with Insert	1



6



KL-0121-181 Hose Clamp Pliers with Remote Operation

Suitable for VW-Audi vehicles.

With automatic locking ratchet.

The pliers allow the user to quickly and easily open the newly developed turbo hose clips without damaging or, even worse, destroying them.

Without the use of this tool it is almost impossible to open a hose clip without damaging the hose.

Thanks to their remote operation, the pliers are particularly suitable for areas with difficult access, such as the charge air hose coupling under the battery box on VW Passat 2.0 TDI. The removal of the battery box is not necessary.

Advantages:

- Universal application.
- The tool is easy to operate.
- Does not damage the hose.

Technical Data:

Length:	240mm
Weight:	650g



KL-0121-1811



KL-0121-1811 Bowden Cable (Spare)

KL-0124-59 Removal Tool for HENN® Clamps

Universally suitable for HENN® clamps as found on coolant hoses/charge air hoses. Installed, for example, in the following vehicles: VW-Audi, Seat, Škoda, BMW, Peugeot, Citroën, Dacia, Fiat, Ford, Kia, Lexus, Mazda, Mercedes, Nissan, Opel/Vauxhall, Porsche, Renault, Toyota, Volvo etc.

Designed for the professional loosening/opening of HENN® Clamps as found on coolant hoses/charge air hoses in passenger cars. An indispensable tool when removing/installing coolant hoses/charge air hoses etc. The handle of the tool can be unscrewed and repositioned by 90 degrees. This allows even HENN® Clamps which are difficult to access to be loosened/opened with ease.



KL-0124-51 K Test Tool Kit for Charge-Air Systems

Universally suitable for charge-air systems that are sealed with hose clamps.

The KL-0124-51 K test tool kit is designed to quickly, professionally and safely check charge-air systems for leaks. The sealing- and adaptor plugs allow the complete charge-air system to be squeezed off and pressurized with the aid of a tyre inflator. Seal tightness checks can then be performed by means of a leak detector spray, but leaks can also be detected by leak-generated noises or a drop in pressure. Any leakage on connections, tubes, hoses, charge-air coolers or turbochargers can quickly and easily be detected and localised using this tool. The special design of the plugs ensure that they are securely held in place throughout the whole leak-checking procedure. All the plugs from this kit are made of solid special material and, as a result, feature an excellent slip-resistant surface. They are specifically designed to accurately fit the respective connectors of the vehicle charge-air systems. All plugs are equipped with a safety bead which ensures that the plug is securely held in the hose even if there is still oil residue in it. Compact shape with fewer stages for ease of use and safety have been given top priority in the design of these plugs making them particularly suitable for narrow designs or for charge-air hoses with strong bending - there, where conventional plugs won't fit.

The kit is composed of 6 pairs of plugs (2-stage, with safety bead) with diameters Ø 35/40mm, Ø 45/50mm, Ø 55/60mm, Ø 55/60mm, Ø 65/70mm, Ø 75/80mm, Ø 85/90mm, a pressure relief valve, an extension tube (for narrow designs), a hose clamp driver with flexible shaft (waf 6/7mm), and is supplied in a plastic storage case.

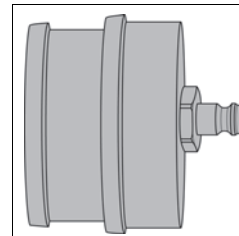
Advantages:

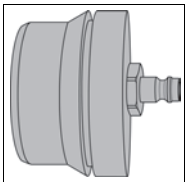
- Made of solid special material.
- Safety bead and slip-resistant surface ensure a secure fit.
- Compact design.
- Universal application.
- Composition of the kit proven very useful in practice.
- All components are available individually as spare parts.

Scope of Delivery:

KL-0124-51 K Test Tool Kit for Charge-Air Systems

Part No.	Description	Qty
KL-0124-5135	Pair of Sealing/Adaptor Plugs, Ø 35/40mm	1
KL-0124-5145	Pair of Sealing/Adaptor Plugs, Ø 45/50mm	1
KL-0124-5155	Pair of Sealing/Adaptor Plugs, Ø 55/60mm	1
KL-0124-5165	Pair of Sealing/Adaptor Plugs, Ø 65/70mm	1
KL-0124-5175	Pair of Sealing/Adaptor Plugs, Ø 75/80mm	1
KL-0124-5185	Pair of Sealing/Adaptor Plugs, Ø 85/90mm	1
KL-0124-511	Pressure Relief Valve, 1.3bar	1
KL-0124-512	Extension Hose	1
KL-0124-513	Adapter Hose Kit (3-pc.)	1
KL-0121-82	Hose Clamp Screwdriver, 6/7mm (waf)	1
KL-0124-5190	Plastic Storage Case	1





KL-0124-52 K Test Tool Kit for Charge-Air Systems

Universally suitable for charge-air systems equipped with air tubes/hoses that are connected by means of a click system as can be found in new generation vehicles.

The **KL-0124-52 K** test kit is designed to quickly, professionally and safely check charge-air systems for leaks. The sealing- and adaptor plugs allow the complete charge-air system to be squeezed off and pressurized with the aid of a tyre inflator. Seal tightness checks can then be performed by means of a leak detector spray, but leaks can also be detected by leak-generated noises or a drop in pressure. Any leakage on connections, tubes, hoses, charge-air coolers or turbochargers can quickly and easily be detected and localised using this tool kit.

The special design of the plugs ensure that they are securely held in place throughout the whole leak-checking procedure. All the plugs from this kit are made of solid special material and specifically designed to accurately fit the connectors of the respective vehicle charge-air system. The kit is composed of 6 pairs of plugs (NW26, NW32, NW40, NW45, NW50, NW55), a pressure relief valve, an extension hose (for narrow designs), and is supplied in a plastic storage case.

Advantages:

- Made of solid special material.
- Safety bead and slip-resistant surface ensure a secure fit.
- Compact design.
- Universal application.
- Composition of the kit proven very useful in practice.
- All components are available individually as spare parts.

Scope of Delivery: KL-0124-52 K Test Tool Kit for Charge-Air Systems

Part No.	Description	Qty
KL-0124-5226	Pair of Sealing/Adaptor Plugs, Ø 26mm	1
KL-0124-5232	Pair of Sealing/Adaptor Plugs, Ø 32mm	1
KL-0124-5240	Pair of Sealing/Adaptor Plugs, Ø 40mm	1
KL-0124-5245	Pair of Sealing/Adaptor Plugs, Ø 45mm	1
KL-0124-5250	Pair of Sealing/Adaptor Plugs, Ø 50mm	1
KL-0124-5255	Pair of Sealing/Adaptor Plugs, Ø 55mm	1
KL-0124-511	Pressure Relief Valve, 1.3bar	1
KL-0124-512	Extension Hose	1
KL-0124-5290	Plastic Storage Case	1

6

KL-0286-20 Socket Wrench Set, (waf 10mm) for Pressure Capsule with Charge Pressure Actuator Position Sensor, VW

Suitable for the pressure capsule with charge pressure actuator position sensor at the exhaust gas turbocharger fitted to 2.0 Common Rail Diesel engines. For example found in: Golf VI (5K), Golf Plus (52), Jetta (1K), Passat (3C), Passat CC (35), Scirocco (13), Eos (1F), Tiguan (5N), Transporter T5 (from 2010 upwards, 7J, 7H, 7G, 7F) and Audi A3 (8P).

This tool set is designed for the professional loosening, adjustment and tightening of the control rod when removing/installing the pressure capsule along with the charge pressure actuator position sensor.

Note: If the control rod is not loosened, adjusted and tightened correctly, there is a risk of damage to the pressure capsule.

Technical Data:

Width across flats (KL-0286-2001):	10mm
Width across flats (KL-0286-2002):	10/12mm
Length (KL-0286-2001):	50mm
Length (KL-0286-2002):	144x55mm
Drive:	1/4"

Scope of Delivery: KL-0286-20 - Socket Wrench Set, (waf 10mm)

Part No.	Description	Qty
KL-0286-2001	Socket (waf 10mm)	1
KL-0286-2002	Combination Spanner (bent design), waf 10/12mm	1



KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit

Universally suitable for vehicles fitted with high-pressure injectors whose fuel return lines are individually accessible.

The **KL-0123-31 K** Fuel Return Flow Test/Diagnosis Kit is designed for the professional measurement of the fuel return flow, return pressure and, optionally, the return flow temperature in a closed circuit. It allows the user to perform up to five important measurements/checks simultaneously: the absolute fuel return volume per injector (ml/min), the comparison of the return flow volume of up to six injectors at the same time, the return flow pressure (0-6bar), any formation of air bubbles in the return flow, and optionally, the return flow temperature.

Advantages:

- Short installation time, thanks to a confusion-proof coupling system.
- Designed for virtually all Bosch-, Siemens-, Denso- and Delphi injection systems (also Piezo).
- In conjunction with an engine diagnostic device, also long-term testing at several rotational speeds and engine temperatures are possible.
- Pressure gauge and analogue temperature sensor (accessories) connectable.



Scope of Delivery:

KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit (Passenger Cars)

Part No.	Description	Qty
KL-0123-3100	Fuel Return Flow Tester, 6 Cylinders, 2-40 ml/min	1
KL-0123-3101	Adaptor Hose Set (2-pc.), 70cm	6
KL-0123-3105	Pressure Gauge, 0-16bar	1
KL-0123-3111	Adaptor (Pair), Bosch Piezo & Continental	6
KL-0123-3112	Adaptor (Pair), Bosch Solenoid Valve and Siemens/VDO	6
KL-0123-3113	Adaptor (Pair), Bosch Solenoid Valve (2nd Generation)	4
KL-0123-3114	Adaptor (Pair), Denso	4
KL-0123-3115	Adaptor (Pair), Delphi I	4
KL-0123-3116	Adaptor (Pair), Delphi II	4
KL-0123-3192	Foam Insert	1
KL-0123-3193	Plastic Storage Box	10
KL-0123-3191	Plastic Storage Case	1



Measuring the fuel return flow and low pressure (with accessories available on demand)

KL-0123-3102 Analogue Temperature Sensor, 0 to +120°C

A useful complement to our KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit.



KL-0123-3104 Pressure Gauge, -1 to 0 bar

A useful complement to our KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit.



KL-0123-310 Extension Hose Set (12-pc.), 140cm

Compatible with the KL-0123-31 K Fuel Return Flow Test/Diagnosis Kit.

Designed to extend the adaptor hoses of the **KL-0123-31 K** Fuel Return Flow Test/Diagnosis Kit.

Technical Data:

Hose Length:	140cm
Connection:	Coupling nipple





KL-0123-41 K

Low-Pressure Circuit Test/Diagnosis Kit, Passenger Cars

Universally suitable for Common-Rail Diesel engines.

The **KL-0123-41 K** Low-Pressure Circuit Test/Diagnosis Kit allows for the professional testing of the low pressure circuit (measurement of the forward delivery and return pressure). The following basic tests can be performed quickly and easily to check for:

- delivery of fuel from the tank,
- air bubbles in the fuel system,
- fuel contamination.

These measurements/tests can be carried out both while the vehicle is stationary and while driving.



Scope of Delivery: KL-0123-41 K Low-Pressure Circuit Test/Diagnosis Kit

Part No.	Description	Qty
KL-0123-4201	Adaptor Hose, 6mm, 2m long	2
KL-0123-4203	Pressure Gauge (-1 to 5 bar), with Fitting and Protective Cap	1
KL-0123-4204	Pressure Gauge (-1 to 15 bar), with Fitting and Protective Cap	1
KL-0123-4205	T-Connector, SAE, 8 x 20mm (red)	1
KL-0123-4206	T-Connector, SAE, 8x30mm (yellow)	1
KL-0123-4207	T-Connector, SAE, 9.5x20mm (grey)	1
KL-0123-4208	T-Connector, SAE, 10x20mm (green)	1
KL-0123-4209	T-Connector, SAE, 10x30mm (blue)	1
KL-0123-4210	T-Connector, NG8 Type 246 (white)	1
KL-0123-4211	T-Connector, Ø 6mm (brown)	1
KL-0123-4212	T-Connector, Ø 8mm (orange)	1
KL-0123-4213	T-Connector, Ø 10mm (purple)	1
KL-0123-4214	T-Connector, 11.8x25mm (light-blue)	1
KL-0123-4192	Foam Insert	1
KL-0123-4191	Plastic Storage Case	1

6



KL-0123-44 K

High-Pressure Circuit Test/Diagnosis Kit, Passenger Cars

Universally applicable to Common Rail Diesel engines.

The **KL-0123-44 K** high-pressure circuit test/diagnosis kit for passenger cars allows for quick, easy and safe pressure testing the high-pressure circuit (forward delivery) of Common Rail Diesel engines with a maximum working pressure of up to 2500 bar. The digital high-pressure gauge, the special high-pressure hoses and adaptors that come with the kit, allow for accurate pressure tests of the high-pressure circuit in a closed loop between rail and injector, as well as identifying the minimum/maximum pressure value. A special feature of the kit is the 2.5m long cable, which is connected to the pressure gauge, making it possible to test the pressure also during a test drive. The flexible hoses enable pressure measurements to be made even in areas that are difficult to access.

Technical Data:

Max. admissible pressure:	2,500bar
Measuring range (High-Pressure Gauge):	0-2,500bar
High-pressure line (angle):	45°, 90°, 135°, 180°
High-pressure hose (length):	0.6m



Scope of Delivery: KL-0123-44 K High-Pressure Circuit Test/Diagnosis Kit

Part No.	Description	Qty
KL-0123-441	High-Pressure Hose, 0.6m; M14x1.5 IG	2
KL-0123-442	Measuring Cable with Connector Plug	1
KL-0123-443	Set of High-Pressure Lines (4-pc.); M12x1.5 IG to M14x1.5 IG; 45°/90°/135°/180°	1
KL-0123-4401	High-Pressure T-Connector, 9/16" IG	1
KL-0123-4402	High-Pressure Diesel Adaptor, M14x1.5 AG to 9/16" AG	2
KL-0123-4403	High-Pressure Adaptor, 9/16" AG to 9/16" AG	1
KL-0123-4404	Pressure Sensor, 0-2500bar; 9/16" IG; 4-20mA	1
KL-0123-4405	Inspection Certificate according to DIN EN 10204-3.1	1
KL-0123-4406	Digital High-Pressure Gauge	1
KL-0123-4407	High-Pressure Thread Adaptor, M12x1.5 to M14x1.5	2
KL-0123-4408	High-Pressure Thread Adaptor, M14x1.5 to M14x1.5	2
KL-0123-4492	Foam Insert	1
KL-0123-4491	Plastic Storage Case	1

KL-0123-48 K

Fuel System Cleaning/Diagnostic Kit, with Auxiliary Tank

Universally suitable for vehicles with suction pump.

The **KL-0123-48 K** Fuel System Cleaning/Diagnostic Kit with Auxiliary Tank is designed for the quick, easy and professional operation of the engine in a separate circuit with the vehicle fuel tank disconnected. Necessary for the detection and diagnosis of faults between the tank and, for example, fuel filter, high-pressure pump etc. The kit also allows for the professional cleaning of the injection system with a specific fuel/cleaning fluid mixture.

Scope of Delivery: KL-0123-48 K Fuel System Cleaning/Diagnostic Kit

Part No.	Description	Qty
KL-0123-4800	Auxiliary Tank (10l)	1
KL-0123-4801	Adaptor Hose, 8mm, 4m long	2
KL-0123-4802	Hand-Operated Diaphragm Pump with Plug Fitting	1
KL-0123-4811	Adaptor Set (3-piece), SAE 8x20mm (red)	1
KL-0123-4812	Adaptor Set (3-piece), SAE 8x30mm (yellow)	1
KL-0123-4813	Adaptor Set (3-piece), SAE 9.5x20mm (grey)	1
KL-0123-4814	Adaptor Set (3-piece), SAE 10x20mm (green)	1
KL-0123-4815	Adaptor Set (3-piece), SAE 10x30mm (blue)	1
KL-0123-4816	Adaptor Set (3-piece), NG8 Type 246 (white)	1
KL-0123-4817	Adaptor Set (3-piece), Ø 6mm (brown)	1
KL-0123-4818	Adaptor Set (3-piece), Ø 8mm (orange)	1
KL-0123-4819	Adaptor Set (3-piece), Ø 10mm (purple)	1
KL-0123-4820	Adaptor Set (3-piece), 11.8x25mm (light-blue)	1
KL-0123-4821	Adaptor Set (3-piece) NG12 Type 246 (pink)	1
KL-0123-4822	Adaptor Set (3-piece), Ø 12mm (black)	1
KL-0123-4892	Foam Insert	1
KL-0123-4291	Plastic Storage Case	1



KL-0123-53 K

Test/Diagnosis Kit 3 for Urea Dosage/Injection Systems

Universally suitable for use on Common Rail Diesel engines as found in passenger cars and light goods vehicles equipped with a Denoxtronic 3.1, 5 or 5.1 urea dosage/injection system from Bosch; as fitted to VW-Audi, BMW, Mazda, Mercedes, Mitsubishi etc.

Used in conjunction with an appropriate diagnostic tester, the **KL-0123-53 K** Test/Diagnosis Kit 3 allows for the quick, trouble-free and professional checking of the injection volume, injection pressure, spray pattern, as well as for various visual inspections. It is also designed to rinse the complete system with water, as well as bleed the systems when refilling with (AdBlue®) urea solution. The oil test paper is used to detect any mineral oil contaminations in the AdBlue® fluid.

Scope of Delivery: KL-0123-53 K Test/Diagnosis Kit 3

Part No.	Description	Qty
KL-0123-5301	Pressure Control Unit, -1 up to 15bar	1
KL-0123-5302	Extension Hose, 2m	1
KL-0123-5303	Adaptor (for rinsing), 6.3x20mm	1
KL-0123-5304	Oil Test Paper	1
KL-0123-5305	Table Scale, 0-1200g	1
KL-0123-5306	Refractometer, AdBlue, with Accessory	1
KL-0123-5307	Reservoir with Retention Feature, Denoxtronic 3.1; 5; 5.1	1
KL-0123-5308	Test Paper, Ø 90mm (100 Units)	1
KL-0123-5309	Extension Cable, 2m	1
KL-0123-5310	Coolant-Connecting Hose	1
KL-0123-5392	Foam Insert	1
KL-0123-5391	Plastic Storage Case	1



Technical Data:

Pressure Control Unit: -1 up to 15bar

KL-0123-500

Hand Pump for Urea Solution

Universal application.

The hand pump for urea solution, with a filling capacity of up to 1.5 litres, allows for the contamination-free transfer of urea solutions (AdBlue®) from a container into a vehicle-side urea tank. The pump is also suitable for the suction cleaning of contaminated urea solutions from the tank. The transparent design and graduated scale of the hand pump allow for the precise dosing of the urea solution. The mechanical shut-off valve on the pump prevents any spillage of the urea solution during transfer.



Technical Data:

Filling capacity: 1.5l

KL-0125-1 A

(Universal)

Universal Valve Spring Compressor

Suitable for the cylinder heads (1-12 cylinder engines - two-valve to four-valve technology) on in-line engines or V-type engines.

The **KL-0125-1 A** valve spring compressor allows for the replacement of valve stem seals, both with the cylinder head removed or in situ on the vehicle.

The retaining flanges are rotatable on the spindles, so that they can be affixed to the cylinder head transversally or in parallel relative to the camshaft axis as necessary.

The correct position of the adjusting bar can be achieved by turning the adjusting spindles on the left- and right-hand side, thus obtaining the correct angle for compressing the valve spring.

The special design of the tool allows for variable adjustment making the compressor suitable for use on virtually any engine with up to 12 cylinders.

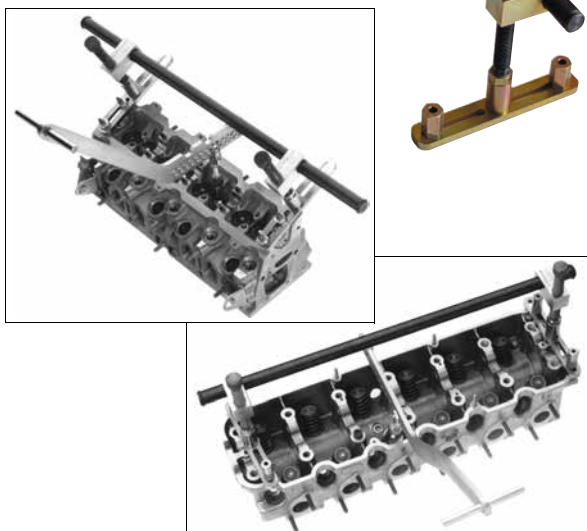
Advantages:

- Substantial job time savings - thanks to the possibility of repairing both the valve stem seals and valve springs in-situ on the vehicle without the need to remove the cylinder head.
- Universal application - thanks to different installation and adjustment possibilities.

Scope of Delivery:

KL-0125-1 A Universal Valve Spring Compressor

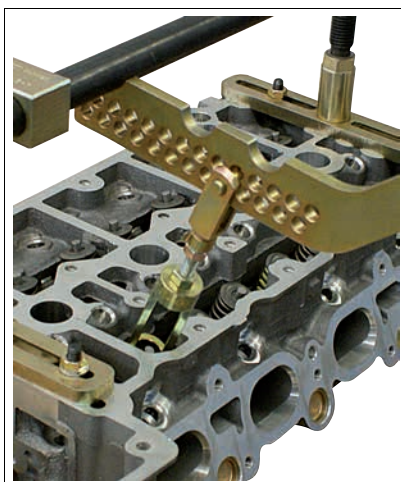
Part No.	Description	Qty
KL-0125-100	Stand	2
KL-0125-1006	Rod	1
KL-0125-1007	O-Ring, Ø 17x4mm	2
KL-0125-1008	Pressure Lever	1
KL-0125-1009	Set Screw, M8x5	1
KL-0125-1010-A	Fork Head with Folding Spring Bolt, M8x32mm	1
KL-0125-1011	Nut	4
KL-0125-1015	Pressure Piece (standard), 34mm	1
KL-0035-0003	Hex Nut, M8	2



6

KL-0125-....

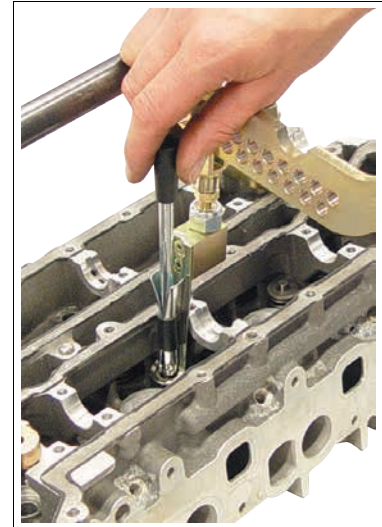
Pressure Pieces for KL-0125-1 A



Part No.	Description	Application	Outer Ø
KL-0125-1035	Pressure Piece	Peugeot/Citroën HDI	21mm
KL-0125-1033	Pressure Piece	Opel/Vauxhall, Seat, VW-Audi	24mm
KL-0125-1034	Pressure Piece	Hyundai	25mm
KL-0125-1022	Pressure Piece	Toyota, Ford 16V	28mm
KL-0125-1023	Pressure Piece	Nissan	30mm
KL-0125-1021	Pressure Piece	Toyota	31mm
KL-0125-1024	Pressure Piece	Opel/Vauxhall, Peugeot	32mm
KL-0125-1025	Pressure Piece	Renault 19 and Clio	33mm
KL-0125-1015	Pressure Piece	BMW, VW, Peugeot Diesel	34mm
KL-0125-1026	Pressure Piece	Renault, Mazda, Peugeot 106, Mercedes M102, M104	35mm
KL-0125-1027	Pressure Piece	Fiat	37mm
KL-0125-1028	Pressure Piece	Peugeot, Citroën	38mm
KL-0125-1031	Pressure Piece	Mercedes OM 601, 602, 603	40mm
KL-0125-1029	Pressure Piece	Ford	42mm
KL-0125-1030	Pressure Piece	Fiat Diesel	44mm
KL-0125-1032	Pressure Piece (open)	BMW-M40	34mm

KL-0125-61.. Pressure Pieces

Part No.	Description	Application	Outer Ø
KL-0125-6121	Pressure Piece	Peugeot/Citroën HDI	21mm
KL-0125-6122	Pressure Piece	Mercedes, Smart	22mm
KL-0125-6124	Pressure Piece	VW-Audi, Seat, Smart, Opel/Vauxhall	24mm
KL-0125-6125	Pressure Piece	Hyundai	25mm
KL-0125-6126	Pressure Piece	Mercedes, VW	26mm
KL-0125-6128	Pressure Piece	Toyota, Ford	28mm
KL-0125-6130	Pressure Piece	Nissan	30mm
KL-0125-6131	Pressure Piece	Toyota	31mm
KL-0125-6132	Pressure Piece	Opel/Vauxhall; Peugeot	32mm

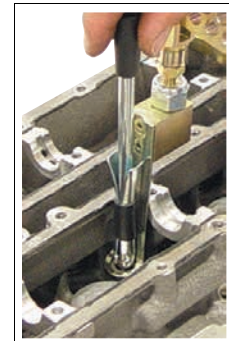


KL-0125-60 Valve Collet Assembly Tool Set

For installing valve collets.

Re-installing valve collets with three grooves can be difficult if space is restricted, valve springs are located deep inside the cylinder head or valve springs are recessed deeply into bucket tappet guides.

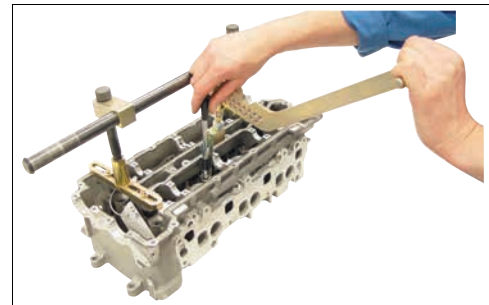
The new **KL-0125-6.. Series** of valve collets assembly tools, together with the matching pressure pieces from the **KL-0125-61.. Series** and the **KL-0125-1 A** valve spring compressor, makes the installation of single- and three-groove valve collets safe and easy, whether the cylinder head is on the engine or removed. This is particularly important if valve stem seals have to be renewed without removing the cylinder head from the vehicle.



Scope of Delivery:

KL-0125-60 Valve Collet Assembly Tool Set

Part No.	Description	Application	Ø
KL-0125-601	Valve Collet Assembly Tool, Ø 5mm	Opel/Vauxhall, VW-Audi	5mm
KL-0125-602	Valve Collet Assembly Tool, Ø 6mm	Smart, VW-Audi	6mm
KL-0125-603	Valve Collet Assembly Tool, Ø 7.8mm	Mercedes	7,8mm

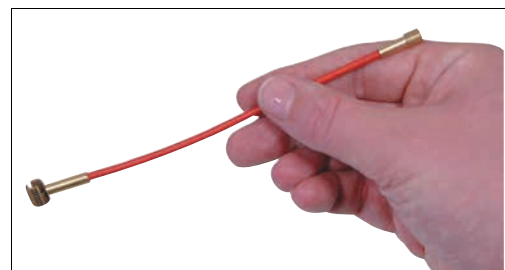


KL-0126-221 Magnetic Valve Collet Lifter (flexible)

With this flexible mini magnetic lifter, metallic objects can be removed even from the smallest crack. The **KL-0126-221** magnetic lifter is particularly suitable for lifting/removing valve collets.

Technical Data:

Length:	200mm
Weight:	6g
Magnet-Ø 3 mm power:	150g
Magnet-Ø 4 mm power:	270g





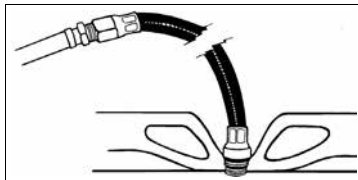
KL-0127-1 Compressed Air Adaptor

For connecting to spark plug thread holes.

The compressed air adaptor allows compressed air to be applied to the cylinder being repaired. This is required to keep the valves up and closed during replacement of the valve stem oil seals with the cylinder head in place.

Technical Data:

Connection Threads:	M12x1.25 and M14x1.25
Length:	170mm



KL-0127-20 Compressed Air Hose, M14x1.25/M18x1.5

For connecting to spark plug thread holes.

This flexible hose allows compressed-air supply into the determined cylinder even under confined space conditions. This is required to keep the valves up and closed during replacement of the valve stem oil seals without removal of the cylinder head.

Technical Data:

Connection Threads:	M14x1.25 and M18x1.5
Length:	305mm
Compressed Air side:	1/4"-18 NPT
Weight:	120g



Technical Data:

Connection thread:	M8x1
Length:	178mm
Tube:	Ø 12x80mm

KL-1383-118 Compressed Air Adaptor for Glow Plug Bore

Universally applicable to Citroën, Fiat, Ford, Lancia, Mercedes, Opel/Vauxhall, Suzuki, Volvo etc.

(Engine Codes: 169 A1.000, 188 A8.000, 188 A9.000, 199 A2.000, 199 A3.000, 199 A9.000, 199 B1.000, 199 B4.000, 223 A9.000, 263 A2.000, A13DTC, D13A, DT17, DT20, FD4, OM639, OM640, OM642, OM651, Y13DT, Z13DT, Z13DTH, Z13DTJ)

With the aid of the **KL-1383-118** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.



KL-0369-55 B Compressed Air Adaptor for Glow Plug Bore

Universally applicable to, e.g., BMW, Mercedes, Chrysler, Opel/Vauxhall, Nissan, Renault etc.

With the aid of the **KL-0369-55 B** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

Technical Data:

Thread:	M10x1
Length:	178mm
Pipe Ø:	15x110mm



Technical Data:

Connection Thread:	M10x1.25
Length:	207mm
Tube Ø:	15mm

KL-0186-1631 Compressed Air Adaptor for M10x1.25 Glow Plug Bore, Toyota/Lexus

Universally applicable to Diesel engines e.g. Opel/Vauxhall (A17DTJ, A17DTC, A17DTE, A17DTS); Toyota and Lexus (1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND]) etc.

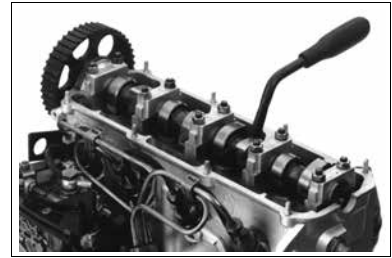
With the aid of the **KL-0186-1631** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

KL-0280-3

Valve Depressor, VW-Audi

Suitable for use on the VW-Audi 4-cylinder engines from 1983 onwards and all other 5- and 6-cylinder engines with bucket tappets.

Intended for valve timing. Used in conjunction with valve shim pliers KL-0280-1.



KL-0281-2

Valve Spring Compressor

Suitable for use on VW-Audi engines from 1.3 onwards, until model year 1993.

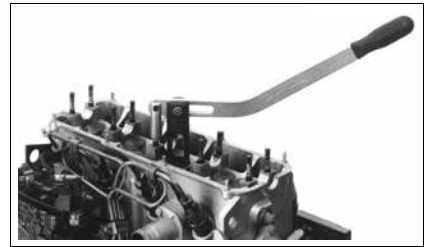
Provided with a fork head for 8mm cylinder head studs. Suitable for the removal and installation of valve springs.

Pressure piece KL-0125-1015, metal design.

Scope of Delivery:

KL-0281-2 Valve Spring Compressor

Part No.	Description	Qty
KL-1381-2003	Lever with Safety Handle	1
KL-0125-1010-A	Fork Head with Folding Spring Bolt, M8x32mm	2
KL-0125-1009	Set Screw, M8x50mm	1
KL-0035-0003	Hex Nut, M8	2
KL-0125-1015	Pressure Piece (standard), 34mm	1



KL-0281-2001

Fork Head, for 7mm Studs

Applicable to VW Polo, (Golf II und III) with a 1.4 or 1.6 engine.



KL-1381-2

Valve Spring Compressor, Peugeot

Intended for use on Peugeot.

For valve springs with a bucket tappet Ø of 38mm.

The valve depressor enables the removal and installation of valve springs both with the cylinder head being removed or installed.

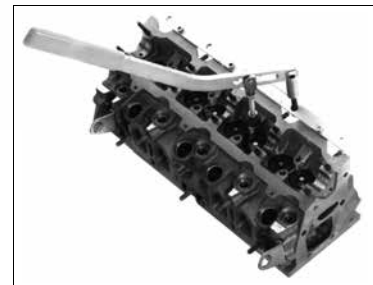
The pressure pieces are interchangeable to fit the respective bucket tappet Ø.

Please see tool KL-0125-1 A.

Scope of Delivery:

KL-1381-2 Valve Spring Compressor, Peugeot

Part No.	Description	Qty
KL-1381-2001	Bar	1
KL-1381-2002	Hex Screw, M6x20mm	3
KL-1381-2003	Lever with Safety Handle	1
KL-1381-2005	Hex screw M8x60mm	1
KL-0125-1010	Fork Head with Folding Spring Bolt, M8x16mm	2
KL-1381-2006	Set Screw, M8x60mm	1
KL-0035-0003	Hex Nut, M8	2
KL-0125-1028	Pressure Piece, 38mm, Peugeot	1





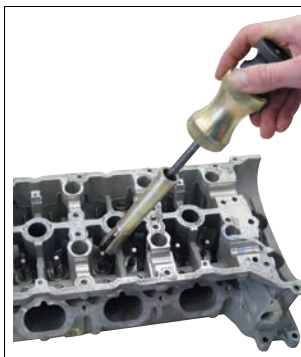
KL-0049-13 Slide Hammer Puller for Valve Stem Seals

For Valve Stem Sealing Rings. Applicable to bucket tappets with diameters of from 23mm-26mm (e.g. Audi engines with 5 valves per cylinder).

The **KL-0049-13** slide hammer puller for valve stem sealing rings can be used universally. The special design of the tool allows even stuck valve stem oil seals to be removed quickly and easily, without any risk of damage to the bucket tappets of the cylinder head.

Scope of Delivery: KL-0049-13 Slide Hammer Puller for Valve Stem Seals

Part No.	Description	Qty
KL-0049-130	Collet Chuck for Valve Stem Seals (small)	1
KL-0049-100	Slide Hammer Puller (Base Tool)	1
KL-0049-1205	Plastic Sleeve	1



KL-0049-12 Slide Hammer Puller for Valve Stem Seals

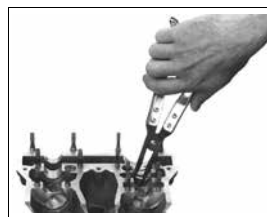
For Valve Stem Sealing Rings. Applicable to bucket tappets with diameters of from 26mm upwards.

The **KL-0049-12** slide hammer puller for valve stem sealing rings can be used universally. The special design of the tool allows even stuck valve stem oil seals to be removed quickly and easily, without any risk of damage to the bucket tappets of the cylinder head.

Scope of Delivery: KL-0049-12 Valve Stem Seal Slide Hammer Puller

Part No.	Description	Qty
KL-0049-120	Collet Chuck for Valve Stem Seals	1
KL-0049-100	Slide Hammer Puller (Base Tool)	1
KL-0049-1205	Plastic Sleeve	1

6



KL-0126-61 (Universal) Removal Pliers for Valve Stem Seals (ultra long design)

For Valve Stem Sealing Rings

The special long, slim design of the pliers allows for quick, easy and safe removal of valve stem oil seals, even from engines with 4-valve cylinder heads.



KL-0125-71

KL-0125-71 Valve Lapper Tool, Ø 29/35mm

Used for hand lapping valves. The tool is equipped with two suction cups in different sizes designed to hold and rotate the valves for lapping operations.

Technical Data:

For valve head Ø:	29/35mm
Length:	225mm
Weight:	60g

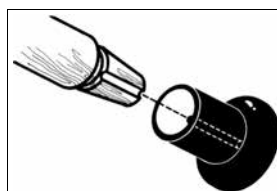


KL-0125-70

KL-0125-70 Valve Lapper Tool, Ø 16/21mm

Technical Data:

For valve head Ø:	16/21mm
Length:	210mm
Weight:	25g



KL-0126-43 Piston Ring Pliers

Suitable for most passenger cars and vans.

Designed to remove and install piston rings with size of 1.2-6.3mm.

Technical Data:

Weight:	115g
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KL-0181-1 Stud Tool, 3/8"

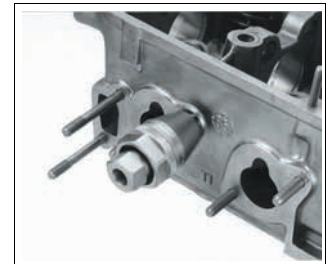
(Universal)

Universal tool, infinitely adjustable.

Designed to screw in and unscrew studs with diameter of 6-12mm.

Advantages:

- Infinitely adjustable.
- Suitable for use in very limited space conditions.
- Also suitable for screws with rusted or stripped threads.
- Also suitable for screws with undersize.



Technical Data:

Drive:	3/8"
Clamping range:	6-12mm
Weight:	450g

KL-0140-60 Precision Straightedge, 500 mm

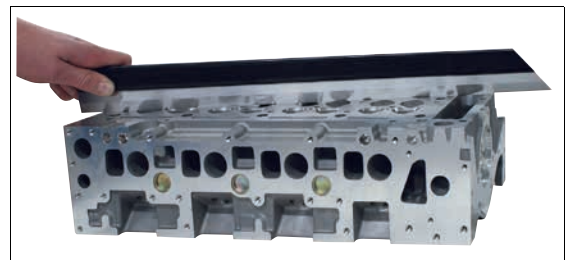
Suitable for cylinder heads with up to 4 cylinders.

Edges hardened, ground, lapped, with heat shield.

Technical Data:

Length:	500mm
Quality Description:	Stainless steel
Cross section:	40x7mm
Weight:	960g

Accessory: **KL-0140-6101** Wooden case for precision straightedge



KL-0140-61 Precision Straightedge, 600mm

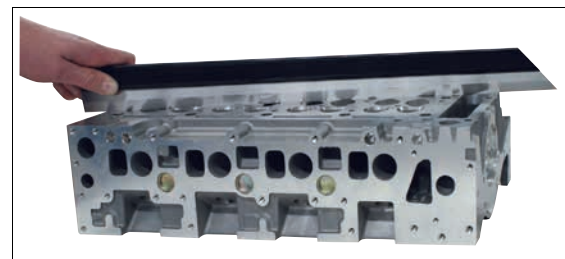
Suitable for Cylinder Heads with up to 6 cylinders.

Edges hardened, ground, lapped, with heat shield.

Technical Data:

Length:	600mm
Quality Description:	Stainless steel
Cross section:	40x7mm
Weight:	1,200g

Accessory: **KL-0140-6101** Wooden case for Precision straightedge





KL-0128-31

Dial Gauge Stand with Dial Gauge

Designed to measure the wobble of brake discs. Can also be used for fine-tuning when repairing engines and transmissions. Features: Sturdy measuring rods made of bright steel, fine adjustment of the dial gauge clamp, prismatic base with switchable magnet.

Scope of Delivery:

KL-0128-31 Dial Gauge Stand with Dial Gauge

Part No.	Description	Qty
KL-0128-1	Dial Gauge, Ø 58mm	1
KL-0128-3	Dial Gauge Stand without Dial Gauge	1



KL-0128-1

Dial Gauge, Ø 58mm

Spindle and clamping shank made of stainless steel, design and measurement accuracy according to DIN 878-A.

Technical Data:

Dial graduation:	0.01mm
Measuring range:	10mm
Housing Ø:	58mm
1 pointer revolution:	1mm
Clamping shank Ø:	8mm



KL-0128-3

Dial Gauge Stand without Dial Gauge

Sturdy measuring rods made of bright steel, dial gauge holder with fine adjustment, prismatic base with switchable magnet.

6



1/2"

Technical Data:

Size:	11mm
Profile:	Hex
Drive:	1/2"
Length:	100mm

KL-4021-3111

Screwdriver Bit Socket, Size (waf) 11mm, 100mm, 1/2"

Applicable to VW-Audi, Seat, Škoda engines.

The **KL-4021-3111** bit socket allows for the removal and installation of the plastic insert for injector valves on VW-Audi petrol engines.



1/2"

Technical Data:

Drive:	1/2"
Profile:	Hex.
Length:	100mm
Size:	13mm

KL-4021-3113

Screwdriver Bit Socket, Size (waf) 13mm, 100mm, 1/2"

Applicable to the 4-Cylinder TDI Pumpe Düse (unit injector) engines as found in VW-Audi, Seat, Škoda vehicles.

The special socket **KL-4021-3113** allows for the quick and trouble-free loosening and tightening of the central retaining bolt on fuel cooling units - necessary, for example, when replacing the fuel filter. This special socket may also be used to remove and install the brass inserts on injector valves in Audi petrol engines from 1990 onwards.

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-4046-362

Socket Set, Torx®, long, 1/2"

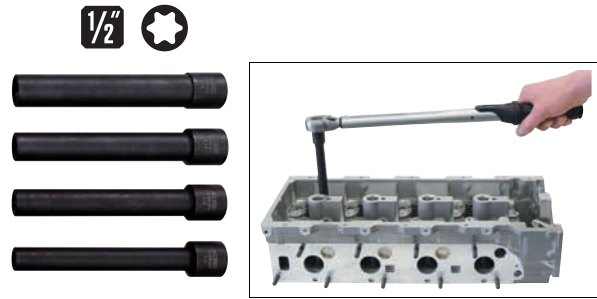
Applicable to BMW, Mercedes CDI engines, etc.

These Torx® Sockets in extended length with a built-in magnet enable the loosening and tightening of cheese-head screws with external Torx® profiles.

Scope of Delivery:

KL-4046-362 Socket Set, Torx® E10 / E12 / E14 / E18, long, 1/2"

Part No.	Torx®	Drive	Length	Weight
KL-4046-3610	E10	1/2"	150mm	200g
KL-4046-3612	E12	1/2"	150mm	225g
KL-4046-3614	E14	1/2"	150mm	250g
KL-4046-3618	E18	1/2"	150mm	415g



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

KL-4076-301

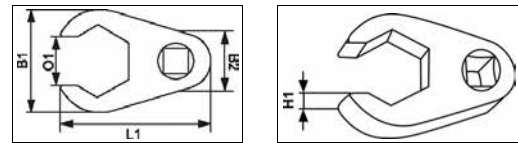
Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if these are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

Scope of Delivery:

KL-4076-301 Crowfoot Wrench Set

Part No.	Size (waf)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Opening [O1]	Drive
KL-4076-3017	17mm	49mm	10mm	35mm	27mm	13mm	3/8"
KL-4076-3018	18mm	49mm	10mm	35mm	27mm	14mm	3/8"
KL-4076-3019	19mm	49mm	10mm	36mm	27mm	15mm	3/8"
KL-4076-3022	22mm	57mm	12mm	40mm	32mm	17mm	1/2"
KL-4076-3024	24mm	60mm	12mm	43mm	33mm	19mm	1/2"



KL-4076-302

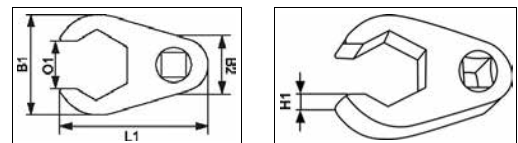
Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if they are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

Scope of Delivery:

KL-4076-302 Crowfoot Wrench Set

Part No.	Size (waf)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Opening [O1]	Drive
KL-4076-3027	27mm	62mm	12mm	48mm	34mm	23mm	1/2"
KL-4076-3030	30mm	68mm	12mm	52mm	37mm	24mm	1/2"
KL-4076-3032	32mm	72mm	13mm	56mm	39mm	26mm	1/2"



KL-4076-401

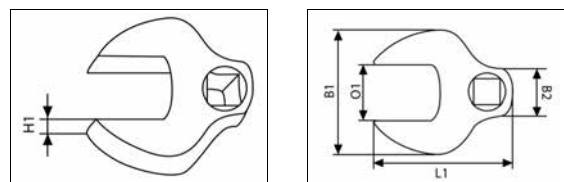
Crowfoot Wrench Set

The exceptionally compact and solid design of these open-ended wrenches enables screws and nuts to be loosened and tightened, even if they are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.

Scope of Delivery:

KL-4076-401 Crowfoot Wrench Set

Part No.	Size [O1] (waf)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Weight	Drive
KL-4076-3036	36mm	81mm	12mm	75mm	29mm	280g	1/2"
KL-4076-3041	41mm	89mm	13mm	88mm	30mm	380g	1/2"
KL-4076-3046	46mm	91mm	13mm	92mm	32mm	400g	1/2"





KL-4075-321 K

Flexible Crowfoot Socket Wrench Set

Universally suitable for screwed pipe connections, for example, on brake systems, injection systems etc.

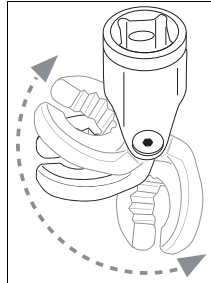
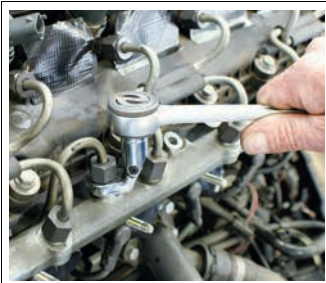
These tools are required for the loosening and tightening of screwed pipe connections. Thanks to the special design of the wrenches, even screw connections that are difficult to access can be reached quickly and without any trouble.

Technical Data:

Profile:	Double Hex
Drive:	3/8"

Scope of Delivery: KL-4075-321 K Flexible Crowfoot Socket Wrench Set

Part No.	Description	Qty
KL-4075-3214	Flexible Crowfoot Socket Wrench, Size (waf) 14mm, bi-hex, 3/8"	1
KL-4075-3216	Flexible Crowfoot Socket Wrench, Size (waf) 16mm, bi-hex, 3/8"	1
KL-4075-3217	Flexible Crowfoot Socket Wrench, Size (waf) 17mm, bi-hex, 3/8"	1
KL-4075-3218	Flexible Crowfoot Socket Wrench, Size (waf) 18mm, bi-hex, 3/8"	1
KL-4075-3219	Flexible Crowfoot Socket Wrench, Size (waf) 19mm, bi-hex, 3/8"	1
KL-4074-3190	Plastic Storage Case	1



KL-4074-311 KA

Flexible Crowfoot Socket Wrench Set

Universally suitable for screwed pipe connections, for example, on brake systems, injection systems etc.

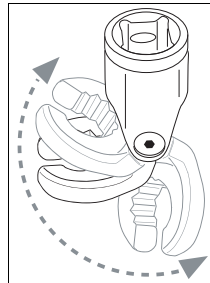
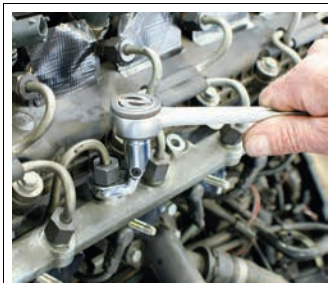
These tools are required for the loosening and tightening of screwed pipe connections. Thanks to the special design of the wrenches, even screw connections that are difficult to access can be reached quickly and without any trouble.

Technical Data:

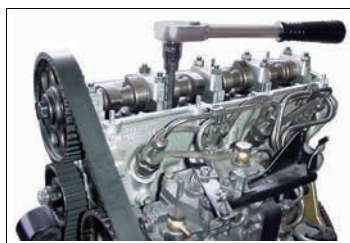
Profile:	Hex
Drive:	3/8"

Scope of Delivery: KL-4074-311 KA Flexible Crowfoot Socket Wrench Set

Part No.	Description	Qty
KL-4074-3111	Flexible Crowfoot Socket Wrench, Size (waf) 11mm, hex, 3/8"	1
KL-4074-3112	Flexible Crowfoot Socket Wrench, Size (waf) 12mm, hex, 3/8"	1
KL-4074-3114	Flexible Crowfoot Socket Wrench, Size (waf) 14mm, hex, 3/8"	1
KL-4074-3116	Flexible Crowfoot Socket Wrench, Size (waf) 16mm, hex, 3/8"	1
KL-4074-3117	Flexible Crowfoot Socket Wrench, Size (waf) 17mm, hex, 3/8"	1
KL-4074-3118	Flexible Crowfoot Socket Wrench, Size (waf) 18mm, hex, 3/8"	1
KL-4074-3119	Flexible Crowfoot Socket Wrench, Size (waf) 19mm, hex, 3/8"	1
KL-4074-3190	Plastic Storage Case	1



6



KL-4051-331 B

Screwdriver Bit Socket Set RIBE®, 1/2", 8-piece

Suitable for FIAT engines with RIBE® screws.

For loosening and tightening RIBE® screws on cylinder head valve drive housings etc.

Scope of Delivery: KL-4051-331 B Screwdriver Bit Socket Set RIBE®, 1/2", 8-piece

Part No.	Description	Qty
KL-4051-3007	Screwdriver Bit Socket RIBE® M7, 55mm, 1/2"	1
KL-4051-3008	Screwdriver Bit Socket RIBE® M8, 55mm, 1/2"	1
KL-4051-3311	Screwdriver Bit Socket RIBE® M10, 140mm, 1/2"	1
KL-4051-3312	Screwdriver Bit Socket RIBE® M12, 140mm, 1/2"	1
KL-4051-3313	Screwdriver Bit Socket RIBE® M13, 140mm, 1/2"	1
KL-4051-3314	Screwdriver Bit Socket RIBE® M14, 140mm, 1/2"	1
KL-4051-3406	Screwdriver Bit Socket RIBE® M6, 200mm, 1/2"	1
KL-4051-3408	Screwdriver Bit Socket RIBE® M8, 200mm, 1/2"	1

* = registered trademark of Richard Bergner GmbH & Co. KG



Technical Data:

Drive:	1/2"
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KL-4051-3310

Screwdriver Bit Socket, RIBE® M10

Ideal to remove and re-tighten cylinder head retaining bolts on **VW-Audi engines** with RIBE® similar profile.



Technical Data:

Drive:	1/2"
Length:	140mm
Weight:	100g

KL-4031-3309

Screwdriver Bit Socket XZN-M9, 140mm, 1/2"

Applicable to: Japanese passenger cars such as Daihatsu, Toyota fitted with petrol engines etc.

Ideal for slackening and tightening cylinder head bolts, e.g. on Japanese passenger car engines with XZN M9 thread profile.



KL-0369-10

Hex Socket, Size (waf) 22mm

Suitable for diesel engines from: VW-Audi, BMW, Ford, Opel/Vauxhall, Rover, Mercedes, Seat, Volvo, etc.

The special cut-out hex socket allows for the removal/installation of diesel injectors without damaging the fuel return tubes.



Technical Data:

Size:	22mm
Drive:	1/2"

KL-0511-1

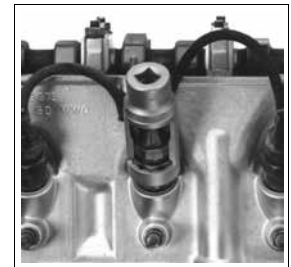
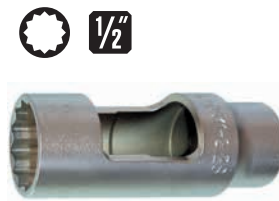
Diesel Injector Bi-Hex Socket, Size (waf) 27mm

Applicable to: BMW (e.g. M21, M41, M51) as well as to Ford, VW, and Mercedes Diesel engines.

Specifically cut-out bi-hex socket for removing and installing diesel injectors without damaging the fuel return tubes.

Technical Data:

Size (bi-hex):	27mm
Drive:	1/2"



KL-0511-2

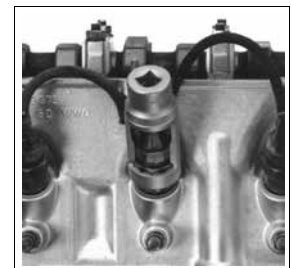
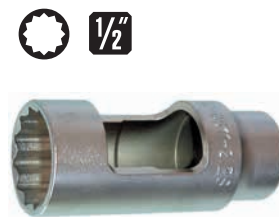
Diesel Injector Bi-Hex Socket, Size (waf) 28mm

Applicable to: Alfa Romeo; Chrysler; Rover; MAN 2.5 TD

Specifically cut-out bi-hex socket for removing and installing diesel injectors without damaging the fuel return tubes.

Technical Data:

Size (bi-hex):	28mm
Drive:	1/2"



KL-0511-3

Diesel Injector Bi-Hex Socket, Size (waf) 21mm

Applicable to the TwinCam Diesel engines on:

Ford Mondeo (10/2000 - 02/2007) 2.0 DI, -TDCi, -TDDi (engine code: D5BA, D6BA, FMBA, HJBA, HJBB, HJBC, N7BA, SDBA); 2.2 TDCi (engine code: QJBA, QJBB, QJBC, QJBD);

Ford Transit (01/2000 - 05/2006) 2.0 DI, -TDCi (engine code: ABFA, D3FA, F3FA, F1FA); 2.4 DI, -TDCi (engine code: D2FA, D2FB, D2FE, D4FA, F4FA, H9FA)

Jaguar X-Type (07/2003 - 10/2005) (engine code: R4-X404)



Specifically cut-out socket allows for the quick and trouble-free removal and installation of screwed diesel injectors (waf 21mm) without any risk of damage to the fuel return tubes.

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet





KL-0379-10

Bolts for Subframe, Smart

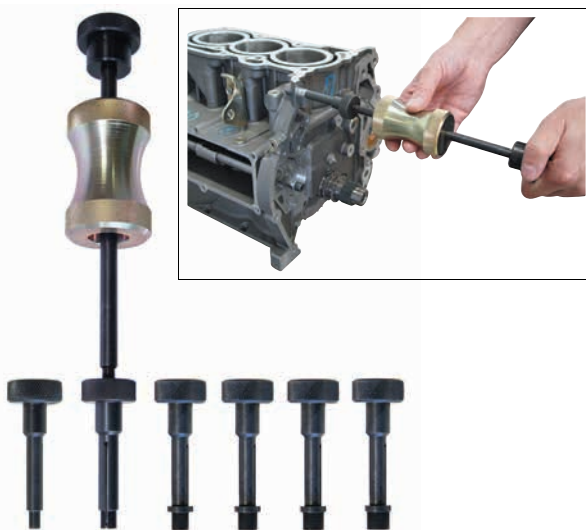
Applicable to Smart Fortwo (450).

The bolts are used to secure the subframe against further dropping when the latter needs to be lowered. Necessary when performing work on the engine, e.g. on starter motors, turbochargers etc.

Once the subframe has been supported (for example by means of a transmission jack) the original bolts can be replaced with our **KL-0379-10 - bolts for subframe**. This will enable the safe and correct lowering of the subframe by approx. 20cm.

Scope of Delivery: KL-0379-10 Bolts for Subframe, Smart

Part No.	Description	Qty
KL-0379-1001	Bolt (Length 300mm)	2
KL-0379-1002	Bolt (Length 260mm)	2
KL-0379-1003	Washer, Ø 12mm	4



KL-0181-80

Guide Sleeve Puller

Allows guide sleeves to be pulled out and knocked in without incurring any damage. The puller works on the principle of an internal collet chuck.

In engine and gearbox engineering, so-called guide sleeves are used for the accurate fixing of the housing halves. These guide sleeves, however, should not be installed or removed with tongs or a hammer.

Scope of Delivery: KL-0181-80 Guide Sleeve Puller

Part No.	Description	Qty
KL-0181-800	Slide Hammer Puller	1
KL-0181-8005	Collet Chuck for internal Ø of 5mm	1
KL-0181-8006	Collet Chuck for internal Ø of 6mm	1
KL-0181-8007	Collet Chuck for internal Ø of 7mm	1
KL-0181-8008	Collet Chuck for internal Ø of 8mm	1
KL-0181-8009	Collet Chuck for internal Ø of 9mm	1
KL-0181-8010	Collet Chuck for internal Ø of 10mm	1

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KL-0178-21 K

Seal Ring Installation Kit

Applicable to virtually all VW-Audi engines.

This tool enables the quick and professional installation of sealing rings on the crankshaft and camshaft without the need for dismantling the engine.

Scope of Delivery: KL-0178-21 K Seal Ring Installation Kit

Part No.	Description	Qty
KL-0178-211	Housing	1
KL-0178-2120	Guide Sleeve, Ø 10.5mm	1
KL-0178-2121	Guide Sleeve, Ø 12.5mm	1
KL-0178-2122	Guide Sleeve, Ø 14.5mm	1
KL-0178-2123	Guide Sleeve, Ø 16.5mm	1
KL-0178-2124	Guide Sleeve, Ø 18.5mm	1
KL-0178-2131	Pressure Ring, Ø 32mm	1
KL-0178-2132	Pressure Ring, Ø 35mm	1
KL-0178-2133	Pressure Ring, Ø 37mm	1
KL-0178-2141	Conical Sleeve, Ø 32mm	1
KL-0178-2142	Conical Sleeve, Ø 35mm	1
KL-0178-2143	Conical Sleeve, Ø 35mm	1
KL-0178-2144	Conical Sleeve, Ø 35mm	1
KL-0178-2145	Conical Sleeve, Ø 37mm	1
KL-0178-2190	Plastic Storage Case	1



KL-0178-32 Seal Ring Removal Kit

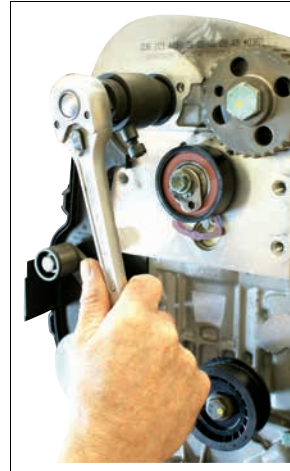
Universally suitable for shaft seals with inner diameter of 27mm, 32mm and 35mm; for example those on crankshafts, camshafts and intermediate shafts used on VW-Audi, Seat and Škoda engines.

The tool enables the easy and professional removal of seal rings from engine shafts such as crankshaft, camshaft or intermediate shaft without the need for dismantling the engine.

Scope of Delivery:

KL-0178-32 Seal Ring Removal Kit

Part No.	Description	Qty
KL-0178-321	Seal Removal Tool, Ø 27mm	1
KL-0178-322	Seal Removal Tool, Ø 32mm	1
KL-0178-323	Seal Removal Tool, Ø 35mm	1



KL-0178-30 K Installation Kit for Sealing Flanges with Integrated Sender Wheel

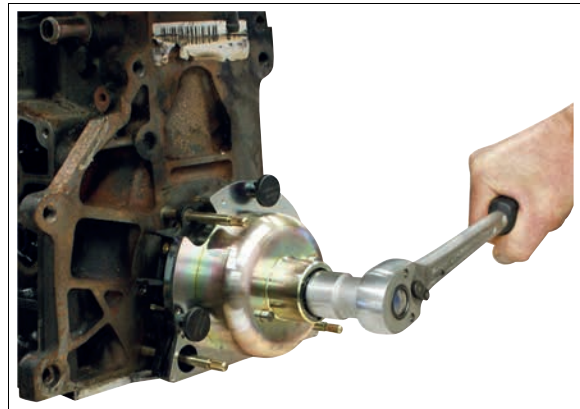
Applicable to VW-Audi, Seat, Škoda and Mitsubishi petrol and diesel engines; e.g. 1.0, 1.4, 1.4 16V, 1.4 FSI, 1.6 16V, 1.6 FSI, 1.9 TDI, 2.0 TDI, 2.0 TDI 16V, 2.0 SDI, 2.0 DI-D on Audi (A2, A3); VW (Polo, Golf IV/V/Plus, Passat); Seat (Arosa, Ibiza, Leon); Škoda (Fabia, Octavia) and Mitsubishi (Grandis, Outlander).

Essential tool for the quick and professional installation of crankshaft sealing rings with integrated sender wheel (gearbox side).

Scope of Delivery:

KL-0178-30 Installation Kit for Sealing Flanges with Integrated Sender Wheel

Part No.	Description	Qty
KL-0178-3010	Housing with Nut	1
KL-0178-3020	Pressure Plate	1
KL-0178-3030	Flange with Spindle	1
KL-0178-3040	Guide Bolt, Ø 7mm	3
KL-0178-3050	Guide Bolt, Ø 8mm	3
KL-1681-111	Adaptor (M14x1.25) for TDC Positioning	1
KL-0128-1	Dial Gauge, Ø 58mm	1
KL-0178-3090	Plastic Storage Case	1



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KL-0282-50 Puller for Timing Belt Sprocket (Crankshaft)

Suitable for use on VW-Audi 4 and 5-cylinder engines.

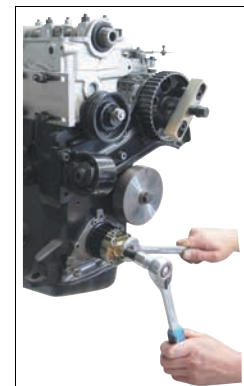
Designed to remove the crankshaft timing belt sprocket.

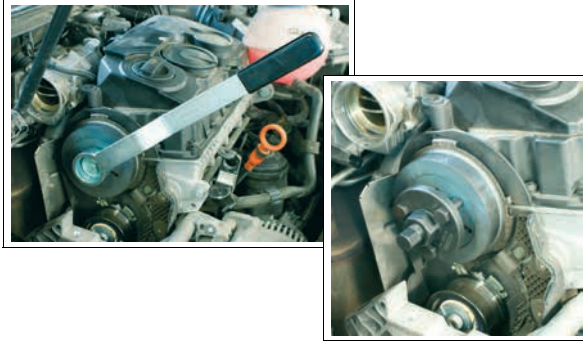
Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



1 B - Combination Spanner UD-Profile





KL-0282-39

Puller Tool Set, Pumpe-Düse (Unit Injector)

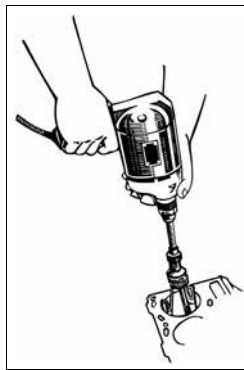
Applicable to the VW-Audi, Ford, Seat, Škoda 3- and 4-cylinder (1.2, 1.4, 1.6, 1.9 and 2.0 litre) TDI Pumpe-Düse (unit injector) engines as installed in: VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3, A4, A5, A6, Q5, TT; Seat Altea, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Oktavia, Praktik, Roomster, Superb, Yeti.

(Engine codes: CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CEGA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHF, CFJA, CGLA, CGLB, CJAA, CJCA, CJCB, CLCA, CLCB, CLJA, CLLA, CMEA)

This tool set is designed for the easy and professional removal of camshaft hubs. It is required, for example, when replacing the cylinder head gasket on 1.9 litre engines, when removing and replacing the camshaft, and for the repair of engines/cylinder heads. The **KL-0282-391** reaction wrench enables the camshaft hub fixing screw to be loosened and tightened correctly. The **KL-0282-392** puller allows for the accurate removal of the camshaft hub from the camshaft taper.

Scope of Delivery: KL-0282-39 Puller Tool Set, Pumpe-Düse (Unit Injector)

Part No.	Description	Qty
KL-0282-391	Counter-Holding Tool	1
KL-0282-392	Puller for Camshaft Hub	1



KL-0199-12

Cylinder-Honing Tool, Ø 51-175mm

Comes with interchangeable hone stones and a flexible drive shaft to fit electric drills. The hone arms are self-spreading and tensioning. Suitable for tubes, bores, cylinders, bearing housings, etc.

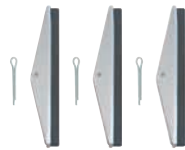
Technical Data:

Hone Tool:	Cylinder Ø: 51-175mm	Weight: 570g
Hone Stone:	Length: 100mm	

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Technical Data:

Dimension:	11x100mm
Weight:	57g

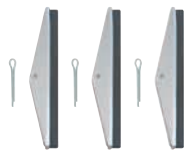


KL-0199-125

Cylinder Hone Set (3 Stones)

Technical Data:

Measure:	11x100mm
Weight:	57g

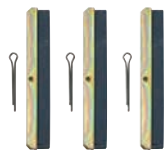


KL-0199-126

Cylinder Hone Set, hard (3 Stones)

Technical Data:

Dimension:	9x76mm
Weight:	57g



KL-0199-121

Cylinder Hone Set, 3 Stones (for old version)

Technical Data:

Dimension:	9x76mm
Weight:	57g



KL-0199-122

Cylinder Hone Set, hard, 3 Stones (for old version)

KL-0126-..

Piston Ring Compressors

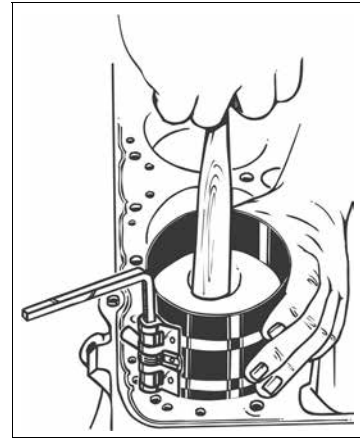
Infinitely adjustable, made of special spring steel.

KL-0126-44

Piston Ring Compressor, Ø 57-125mm

Technical Data:

Height:	39mm
Ø:	57-125mm
Weight:	170g



KL-0126-44

KL-0126-45

Piston Ring Compressor, Ø 40-75mm

Technical Data:

Height:	52mm
Ø:	40-75mm
Weight:	115g



KL-0126-45

KL-0126-46

Piston Ring Compressor, Ø 57-125mm

Technical Data:

Height:	89mm
Ø:	57-125mm
Weight:	315g



KL-0126-46

KL-0126-47

Piston Ring Compressor, Ø 90-175mm

Technical Data:

Height:	89mm
Ø:	90-175mm
Weight:	400g



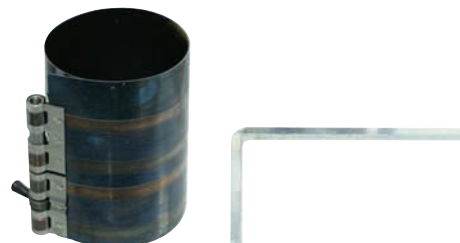
KL-0126-47

KL-0126-48

Piston Ring Compressor, Ø 90-175mm

Technical Data:

Höhe:	178mm
Ø:	90-175mm
Weight:	765g



KL-0126-48

KL-0186-14 K (German Utility Model) Injector Nozzle Puller Set (Universal), with Accessories



Universally applicable to Diesel engines with injector nozzle connection thread M14x1.5 (external thread) or M17x1 (internal thread); for example:

- Mercedes: OM611, OM612, OM613, OM628**, OM629**, OM639, OM640, OM642**, OM646, OM646 EVO, OM647, OM648
- Peugeot, Citroën, Fiat, Lancia, Suzuki: DV6* [16V])
- Ford: 1.6 TDCi (G8DA, G8DB, HHDA, HJA, HHJB)
- VW-Audi: 2.5, 2.7 and 3.0 V6 Tdi
- Volvo: 1.6 D (D4164T), 2.2 D
- Mazda: Y6 (DV6* [16V])

*Note: Not suitable for Euro 5 [8V] engines.

**Note: V-engines might require the removal of the engine due to space constraints.

The injector nozzle puller **KL-0186-14 K** enables the removal of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without the need for dismantling the cylinder head.

The special extraction bridge and pull spindle allow the user to extract the injector nozzle quickly and easily.

The extraction bridge is supported either by the support bolts that are screwed into the locating bores for the valve cover screws (M6) or by the support bars that are positioned on an even surface on the cylinder head. The spacer nuts allow the supporting surfaces to be levelled out, as well as the support bolts in bore holes with insufficient depth to be adjusted correctly.

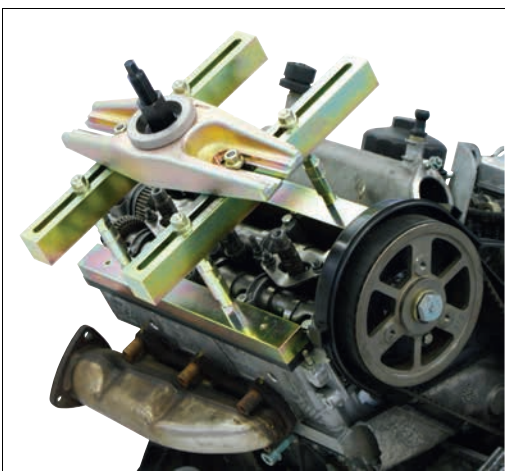
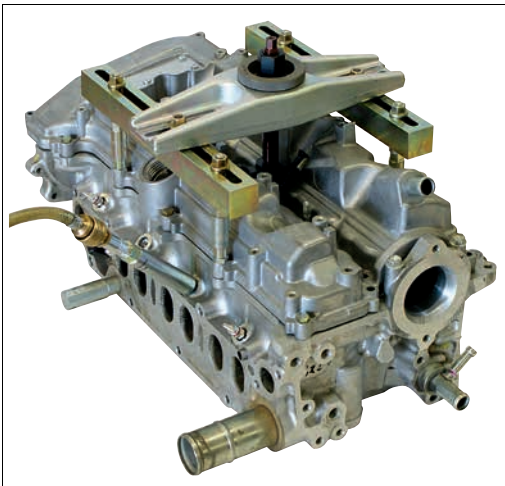
Note:

Thanks to the various upgrade kits, which are available separately as accessories, the injector nozzle puller is also suitable for use on many other Common Rail Diesel engines such as PSA 2.7 and 3.0 Hdi (DT17, DT20), Fiat Ducato and Iveco 2.3, 2.4 and 3.0 JTD, Mercedes CDI (OM651), Renault, Nissan, Opel/Vauxhall 2.2, 2.5 and 3.0 dci (G9T, G9U and ZD3), as well as Toyota 2.2 (2AD-FHV, 2AD-FTV).

Scope of Delivery:

KL-0186-14 K Injector Nozzle Puller Set (Universal), with Accessories

Part No.	Description	Qty
KL-0186-121	Extraction Bridge without Spindle	1
KL-0583-1005	Pull Spindle, M17x1, 200mm long	1
KL-0186-1215	Shoulder Nut, M16x1.5	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm long	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-0186-122	Support Bar Set	1
KL-0186-1251	Spacer Nut Set, 5mm	1
KL-0186-1252	Spacer Nut Set, 10mm	1
KL-0186-1253	Spacer Nut Set, 15mm	1
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0186-1290	Plastic Storage Case	1



KL-0186-1233

Set of Support Bolts, M6, 145mm

Applicable to VW-Audi, Seat, Škoda 2.0 TDI (CFFB) Common Rail Diesel engines and Opel/Vauxhall 2.0 CDTi, VCDi (Z 20 DM, Z 20 DMH, Z 20 S) Common Rail Diesel engines. Installed, for example, in: VW Golf VI (5K), Eos (1F), Sharan (7N), Passat V (3C), Passat VI (36), Jetta (16), Passat CC (35), Tiguan (5N); Audi A3 (8P), Q3 (8U); Seat Alhambra (71); Škoda Superb II (3T); Opel/Vauxhall Antara, Chevrolet Captiva, Nubria estate car and Lacetti etc.

The KL-0186-1233 support bolt set upgrades the injector nozzle puller set KL-0186-14 K by making it also suitable for use on the above mentioned engines.



KL-0186-1240

Set of Support Bolts, M6, 170mm

Applicable to the BMW 1.6, 2.0 (N47) and 3.0 (N57), as well as MINI 1.6 and 2.0 (N47) Common Rail Diesel engines. For example, fitted to: BMW 1 Series (E81, E82, E87, E88; F20, F21), 2 Series (F22), 3 Series (E90, E91, E92, E93; F30, F31; F34), 4 Series (F32), 5 Series (E60, E61; F10, F11; F07), 6 Series (F06, F12, F13), 7 Series (F01, F02, F04), X1 (E84), X3 (E83; F25), X5 (E70; F15), X6 (71, E72), and MINI Clubman (R55), Clubvan (R55), Countryman (R60), Paceman (R61), Coupé (R58), Roadster (R59) etc.

The KL-0186-1240 support bolt set upgrades the KL-0186-14 K injector nozzle puller set by making it also suitable for use on the above mentioned engines.



KL-0186-170

(Patented)

Upgrade Kit for KL-0186-14 K

Applicable to Mercedes (OM651), Chevrolet (Z20DMH, Z20D1) and Opel/Vauxhall (Z22DMH) Diesel engines; as installed, for example, in: Mercedes C-Class (W204/S204 from 2007 onwards), E-Class (W212 from 2009 onwards), E-Class Coupé/Convertible (W207/C207 from 2009 onwards), GLK (X204 from 2008 onwards) and Sprinter II (906 from 2006 onwards); Chevrolet Cruze (J300), Orlando (J309) and Opel/Vauxhall Antara (L07).

The KL-0186-170 upgrade kit enables the injector nozzle puller set KL-0186-14 K also to be used on the above mentioned engines.

Scope of Delivery: KL-0186-170 Upgrade Kit for KL-0186-14 K (to form KL-0186-17 K)

Part No.	Description	Qty
KL-0186-1233	Set of Support Bolts, M6, 145mm long	1
KL-0186-1711	Pull Spindle, M18, 145mm long	1
KL-0369-420	Injector Nozzle Puller	1
KL-0369-511 A	Screw Tap, M7, with Drill Bit	1



KL-0186-210

Upgrade Kit for KL-0186-14 K

Renault/Nissan/Opel/Vauxhall

Applicable to the following Diesel engines: Renault / Nissan / Opel/Vauxhall 2.0 dCi (engine code M9R), 2.2 dCi (engine code G9T), 2.5 dCi (engine code G9U) and 3.0 dCi (engine code P9X*, ZD3).

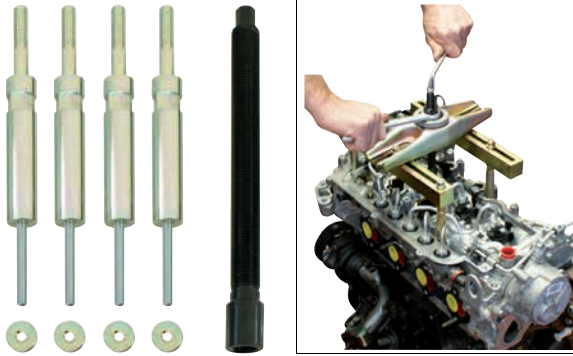
*Note: V-engines might require the removal of the engine due to lack of space.

The KL-0186-210 tool kit is designed to upgrade the KL-0186-14 K injector nozzle puller set so that it also covers the above mentioned engines

Scope of Delivery: KL-0186-210 Upgrade Kit for KL-0186-14 K (to form KL-0186-21 K)

Part No.	Description	Qty
KL-0186-1234	Set of Support Bolts, M6, 113.5mm and 153.5mm	1
KL-0186-1236	Set of Support Bolts, M6	1
KL-0186-1235-2	Set Screw, M6x25mm	4
KL-0186-1255	Spacer Nut, M8	4
KL-0583-1032	Pull Spindle, M14x1.5, 200mm	1
KL-0186-1611 H	Pull Spindle, M20x1, 250mm	1





KL-0186-200

Upgrade Kit for KL-0186-14 K

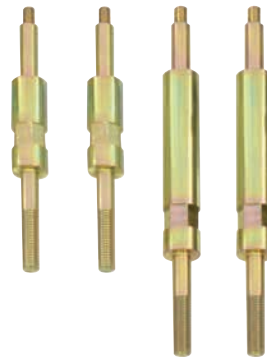
Renault, Nissan, Opel/Vauxhall

Applicable to Renault, Nissan and Opel/Vauxhall 2.0 dci Diesel engines (engine code M9R). Injector nozzles with fuel line connection at the top.

The **KL-0186-200** tool kit is designed to upgrade the **KL-0186-14 K** injector nozzle puller set so that it also covers the above mentioned engines.

Scope of Delivery: KL-0186-200 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1236	Set of Support Bolts, M6	1
KL-0583-1032	Pull Spindle, 200mm long	1



KL-0186-1234

Set of Support Bolts, M6 (113.5mm and 153.5mm)

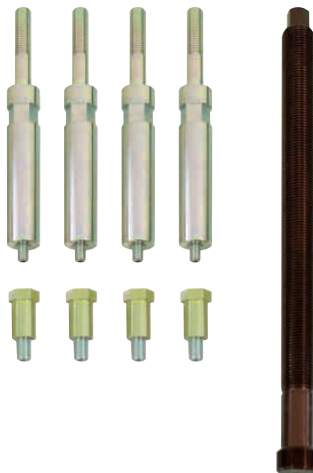
Applicable to Renault, Nissan, Opel/Vauxhall 2.2 and 2.5 dCi Diesel engines (engine code: G9T and G9U) e.g. Renault: Avantime, Espace III, Espace IV, Laguna II, Master II, Master III, Traffic II, Vel Satis; Nissan: Interstar, Primastar and Opel/Vauxhall Movano, Vivaro.

The **KL-0186-1234** support bolt set upgrades the injector nozzle puller set **KL-0186-14 K** by making it also suitable for use on the above mentioned engines.

Scope of Delivery: KL-0186-1234 Set of Support Bolts M6 (113.5mm and 153.5mm)

Part No.	Description	Qty
KL-0186-1234-1	Support Bolt, 113.5mm	2
KL-0186-1234-2	Support Bolt, 153.5mm	2

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KL-0186-190

Upgrade Kit for KL-0186-14 K

Renault, Nissan, Opel/Vauxhall

Applicable to Renault, Nissan, Opel/Vauxhall 3.0 Common Rail Diesel engines (engine code: ZD3); e.g. fitted to Renault: Master (II and III), Master Maxi; Nissan: Cabstar (III), Interstar, Patrol (III), Patrol GR (II), Terano and Opel/Vauxhall: Movano (II). As well as for Renault 3.0 V6 Common Rail Diesel engines (engine code P9X*) e.g. fitted to Renault: Espace (IV), Vel Satis.

***Note:** V-engines might require the removal of the engine due to space constraints.

The **KL-0186-190** tool kit is designed to upgrade the **KL-0186-14 K** injector nozzle puller set so that it also covers the above mentioned engines.

Scope of Delivery: KL-0186-190 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1238	Set of Support Bolts, M6	1
KL-0186-1255	Spacer Nut, M8	4
KL-0186-1611 H	Pull Spindle, M20x1, 250mm	1



KL-0186-130

Upgrade Kit for KL-0186-14 K (1.9, 2.3, 2.4, 3.0 JTD)

Applicable to Fiat Ducato, Citroën Relay/Jumper III, Peugeot Boxer III and Iveco 2.3, 2.4 and 3.0 JTD / HDI Common Rail Diesel engines (Engine Codes: F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE3481D, F1CE3481DM, F1CE3481E, F1CE3481N] also Euro 5), as well as Alfa Romeo 1.9 JTD (Engine code: 937A5.000).

The **KL-0186-130** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.

Scope of Delivery: KL-0186-130 Upgrade Kit (1.9, 2.3, 2.4, 3.0 JTD)

Part No.	Description	Qty
KL-0186-1232	Support Bolt Set, M8 (4-piece)	1
KL-0583-1032	Pull Spindle, M14x1.5, 200mm long	1
KL-0186-1261	Set of Spacer Nuts, 10mm (4-piece)	1

KL-0186-132

Upgrade Kit for KL-0186-14 K in conjunction with KL-0186-130

Applicable to the Fiat Ducato 3.0 JTD (Euro 5), Citroën Relay/Jumper III and Peugeot Boxer III 3.0 HDI (Euro 5) Common Rail Diesel engines.
(Engine codes: F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N])

The **KL-0186-132** upgrade kit is used in conjunction with the injector nozzle puller set **KL-0186-14 K** and upgrade kit **KL-0186-130** to allow the removal of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without the need for dismantling the cylinder head.

The injector can be extracted in one piece quickly and easily using the special puller claw and the **KL-0583-1032 pull spindle** (supplied with **KL-0186-130**). The injector needs to be opened for this purpose.

Procedure: Unscrew injector top part, dismantle nozzle, screw in pull spindle, mount special puller claw, unscrew valve cover screws (4 screws) and replace with special support bolts, mount extraction bridge and screw on shoulder nut. Extract nozzle by turning the shoulder nut.



Scope of Delivery: KL-0186-132 Upgrade Kit for KL-0186-13 KA

Part No.	Description	Qty
KL-0186-1232 L	Set of Support Bolts M8, 180mm	1
KL-0186-1321	Special Injector Puller Claw	1
KL-0186-1322	Knurled Nut	1
KL-0186-1323	Hex Nut	1

KL-0186-230

Upgrade Kit for KL-0186-14 K

Applicable to Ford, Fiat, Citroën and Peugeot 2.2 Diesel engines. Installed, for example, in: Ford Transit (from 2006 onwards), Tourneo; Fiat Ducato (from 2006 to 2012), Citroën Relay/Jumper III and Peugeot Boxer III. (Engine codes: 4HM, 4HU, 4HV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

The **KL-0186-230** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.



Scope of Delivery: KL-0186-230 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1233	Set of Support Bolts, M6, 145mm	1
KL-1383-1022	Special Socket ,Size (waf) 25mm, 1/2" drive	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-0186-2201	Special Insert	1
KL-0186-1611	Pull Spindle, M20x1, 145mm long	1



KL-0186-150 A

Upgrade Kit (PSA HDI) for KL-0186-14 K

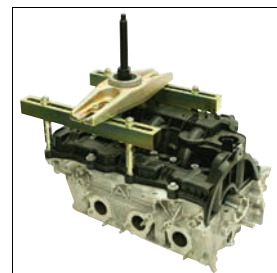
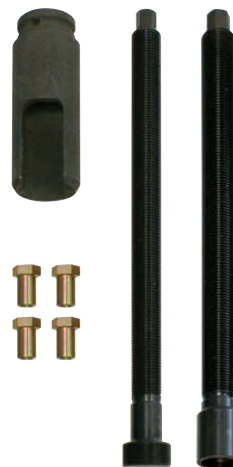
Applicable to PSA 2.7 (DT17) and 3.0 (DT20) Hdi Diesel engines.

The **KL-0186-150 A** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.

Note:
Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

Scope of Delivery: KL-0186-150 A Upgrade Kit (PSA HDI) for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1254	Set of Spacer Nuts, 20mm	1
KL-1383-1113 H	Pull Spindle, M14x1.25, 240mm long	1
KL-1383-1021 H	Pull Spindle, M25x1, 240mm long	1
KL-1383-1022	Special Socket, Size (waf) 25mm, 1/2" drive	1





Technical Data:

Connection thread of pull spindle KL-0583-1032:	M14x1.5
Connection thread of pull spindle KL-0186-1612:	M16x1
Connection thread of pull spindle KL-0186-1611:	M20x1

KL-0186-1610 B

Upgrade Kit for KL-0186-14 K

Suitable for the Toyota, Lexus, Mini 1.4, 2.0, 2.2, 2.5 and 3.0 Common Rail Diesel engines as found in the following vehicles: Lexus IS; Mini One (R50); Toyota Auris, Avensis, Corolla Verso/CombiVan, Dyna, Hiace, Hiace/PowerVan, Hilux, IQ, Landcruiser/Prado, RAV4, Verso, Verso/Sportsvan, Yaris. (Engine codes: 1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND])

Used in conjunction with the **KL-0186-14 K** universal injector nozzle puller set with accessories, the **KL-0186-1610 B** upgrade kit enables the removal of very tight-fitting/seized injector nozzles to be performed directly on the vehicle without having to dismount the cylinder head.

The special extraction bridge and the pull spindle allow the user to extract the injector nozzle quickly and easily. The injector nozzle needs to be opened for this.

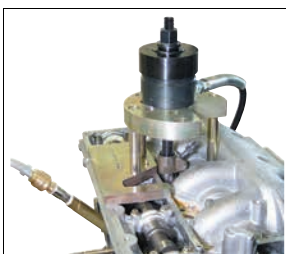
Procedure: Unscrew injector top part, disassemble remains of injector, screw in pull spindle, unscrew valve cover screws (4 screws), mount extraction bridge, screw on shoulder nut. Extract injector by turning the shoulder nut.

Scope of Delivery: KL-0186-1610 B Upgrade Kit for KL-0186-14 K

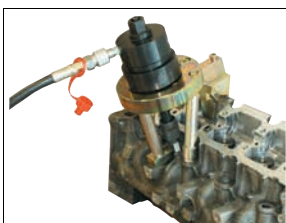
Part No.	Description	Qty
KL-0583-1032	Pull Spindle, M14x1.5, 200mm long	1
KL-0186-1611	Pull Spindle, M20x1, 145mm long	1
KL-0186-1612	Pull Spindle, M16x1, 145mm long	1
KL-0186-2201	Special Insert	1
KL-4417-17	Crowfoot Wrench, Size (waf) 17mm	1
KL-0186-1235-2	Set Screw, M6x25mm	4



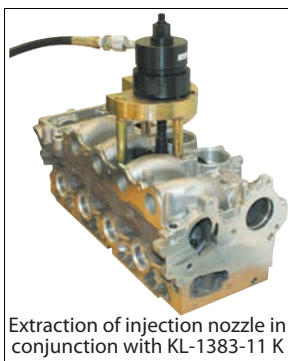
Extraction of injection nozzle in conjunction with KL-0583-10 K



Extraction of injection nozzle in conjunction with KL-1383-11 K



Extraction of injection nozzle in conjunction with KL-1283-11 K



Extraction of injection nozzle in conjunction with KL-1383-11 K

KL-0040-170 A

Hydraulic Cylinder, 17t (short design), with Shoulder Nut M16x1.5 and Safety Belt

Designed for the controlled extraction of very tight-fitting/seized injector nozzles. The tool is used in conjunction with a special pull spindle, a GEDORE Automotive injector nozzle puller with extraction bridge, and a GEDORE Automotive hydraulic pump with pressure gauge.

The **KL-0040-1700** hydraulic cylinder along with the special pull spindle (part no. ending with H) is placed onto the extraction bridge instead of the mechanical drive. The special pressure gauge (**KL-0040-2529** or **KL-0040-2528**) of the hydraulic pump (**KL-0215-35 M25** or **KL-0215-37 M25**) allows the applied force to be monitored during the extraction process. By fastening the **KL-0040-1790** safety belt (supplied with the kit) to the vehicle and to the hydraulic cylinder **KL-0040-1700**, the latter is prevented from falling.

Note: The injector nozzle pullers **KL-0369-46 K** and **KL-1383-10 K** additionally require the use of spacer ring **KL-0040-1751**.

Technical Data:

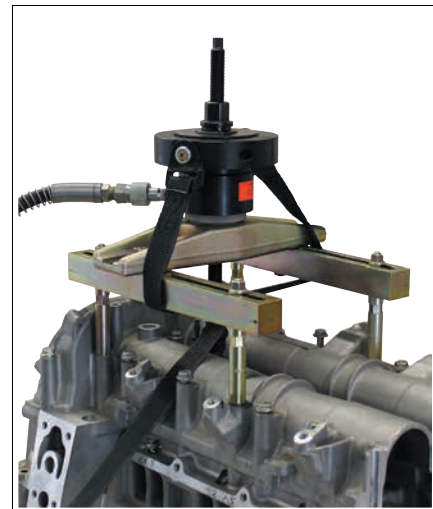
Maximum admissible force:	170kN (17t)
Maximum stroke:	15mm
Maximum oil volume:	41cm ³
Maximum oil pressure:	700bar
Piston area:	27cm ²
Cylinder outer diameter:	79mm
Cylinder overall height, (piston retracted):	89mm
Cylinder overall height, (piston extended):	104mm
Through-hole in tubular piston	Ø 16.5mm
Hydraulic fluid connection:	3/8"-18 NPT
Weight:	2.7kg

Scope of Delivery: KL-0040-170 A Hydraulic Cylinder, 17t (short design)

Part No.	Description	Qty
KL-0040-1700	Hydraulic Cylinder, 17t (short design)	1
KL-0040-1741-2	Shoulder Nut, M16x1.5	1
KL-0040-1790	Safety Belt	1

KL-0040-175 B Hydraulic Drive Tool Kit with Safety Belt

This tool kit enables the controlled extraction of very tight-fitting/seized injector nozzles. It is used in conjunction with the injector nozzle puller set **KL-0186-14 K** and a hydraulic pump equipped with a GEDORE Automotive pressure gauge. The hydraulic cylinder with shoulder nut **KL-0040-170 A** together with a special pull spindle (part no. ending with H) is placed onto the extraction bridge instead of the mechanical drive. The special pressure gauge **KL-0040-2529/KL-0040-2528** of the hydraulic pump **KL-0215-35 M25/KL-0215-37 M25** allows the applied force to be monitored during the extraction process. The **KL-0040-1790** safety belt included in the kit is fixed to the vehicle and to the **KL-0040-1700** hydraulic cylinder to secure the latter against falling.



Technical Data: KL-0040-170 A

Maximum admissible force:	170KN (17t)
Maximum stroke:	15mm
Maximum oil volume:	41cm ³
Maximum oil pressure:	700bar
Piston area:	27cm ²
Cylinder outer diameter:	79mm
Cylinder overall height, (piston retracted):	89mm
Cylinder overall height, (piston extended):	104mm
Through hole in tubular piston:	Ø 16.5mm
Hydraulic oil connection:	3/8"-18NPT
Weight:	2.7kg

Technical Data: KL-0583-1005 HA

Connection thread:	M17x1
Length:	315mm

Technical Data: KL-0583-1032 H

Connection thread:	M14x1.5
Length:	315mm

Scope of Delivery:

KL-0040-175 B Hydraulic Drive Tool Kit with Safety Belt

Part No.	Description	Qty
KL-0040-170 A	Hydraulic Cylinder, 17t (short design)	1
KL-0583-1005 HA	Pull Spindle, M17x1, with Nut, 315mm long	1
KL-0583-1032 H	Pull Spindle, M14x1.5, 315mm long	1

6

KL-0215-35 M25 Hydraulic Hand Pump

The **KL-0215-35 M25** hydraulic hand pump is designed to be used as a drive for the hydraulic cylinders **KL-0040-2500** and **KL-0040-170**. The hydraulic pressure and necessary force can be monitored while operating the pump at pressure gauge **KL-0040-2529** (supplied with the tool set). The pressure gauge features an additional tonne scale specifically adapted to our **KL-0040-2500** hydraulic cylinder (17t).



Technical Data:

Weight:	7.5kg
Max. pressure:	700bar

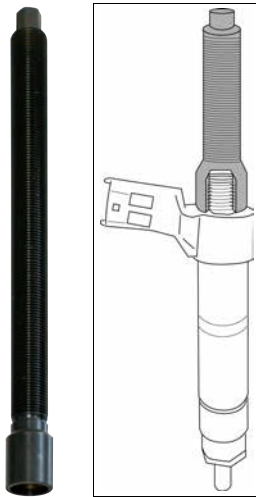
Note: A hydraulic hand pump with pressure gauge precisely adapted to the hydraulic cylinder **KL-0040-2200** (10t) or **KL-0040-2800** (28t) available upon request.



Scope of Delivery:

KL-0215-35 M25 Hydraulic Hand Pump

Part No.	Description	Qty
KL-0215-33	Hydraulic Hand Pump (without hose)	1
KL-0215-31	Hydraulic Hose, 1.8m, with Hose-Side Connector	1
KL-0215-322	Cylinder-Side Connector, 1/4" NPT	1
KL-0040-2520	Adaptor, 3/8" NPT to 1/4" NPT	1
KL-0040-2529	Pressure Gauge	1



KL-1383-1113 H

Pull Spindle, M14x1.5

Suitable for injection nozzles with an M14x1.5 external thread.

Technical Data:

Connection thread:	M14x1.5
Length:	240mm

KL-0583-1032 H

Pull Spindle, M14x1.5

Suitable for injector nozzles with an M14x1.5 external thread.

Technical Data:

Connection thread:	M14x1.5
Length:	315mm



Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	240mm

Scope of Delivery: KL-0369-4606 HA Pull Spindle M17x1 with Nut

Part No.	Description	Qty
KL-0369-4606-1 H	Pull Spindle, M17x1, 240mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

KL-0369-4606 HA

Pull Spindle, M17x1 with Nut M27x1, 240mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in Alfa Romeo, BMW, Fiat, Mercedes, PSA (DW10) and Renault Diesel engines.

The pull spindle is required if the KL-0040-1700 hydraulic cylinder is to be used as a drive for the KL-0369-46 K, KL-1283-11 K, KL-1283-13 K, KL-1383-11 K, KL-1383-14 K and KL-1683-10 K injector nozzle pullers.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	132mm

Scope of Delivery: KL-0369-4606 A Pull Spindle, M17x1 with Nut

Part No.	Description	Qty
KL-0369-4606-1	Pull Spindle, M17x1, 132mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

KL-0369-4606 A

Pull Spindle, M17x1, with Nut, M27x1, 132mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in Alfa Romeo, BMW, Fiat, Mercedes, PSA (DW10) and Renault Diesel engines.

The pull spindle upgrades our KL-0369-46 K, KL-1283-11 K, KL-1283-13 K, KL-1383-11 K and KL-1683-10 K tools sets so that these can also be used with very tight-fitting/seized injector nozzles. The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	315mm

Scope of Delivery: KL-0583-1005 A Pull Spindle M17x1 with Nut

Part No.	Description	Qty
KL-0583-1005-1 H	Pull Spindle, M17x1, 315mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

KL-0583-1005 HA

Pull Spindle M17x1 with Nut M27x1, 315mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in PSA (DW10), BMW, Fiat, Mercedes Diesel engines.

The pull spindle is required if the KL-0040-170 A hydraulic cylinder is to be used as a drive for the injector nozzle pullers KL-0583-10 K and KL-0186-14 K respectively (in conjunction with the vehicle-specific upgrade kits KL-0186-1234, KL-0186-130, KL-0186-190, KL-0186-210).

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.

KL-0583-1005 A

Pull Spindle, M17x1, with Nut, M27x1, 200mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in PSA (DW10), BMW, Fiat, Mercedes Diesel engines.

The pull spindle complements the injector nozzle pullers KL-0583-10 K and KL-0186-14 K respectively (in conjunction with the vehicle-specific upgrade kits KL-0186-1234, KL-0186-130, KL-0186-190, KL-0186-210) making these suitable for use also on very tight-fitting/seized injector nozzles. The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	200mm

Scope of Delivery: KL-0583-1005 A Pull Spindle M17x1 with Nut

Part No.	Description	Qty
KL-0583-1005-1	Pull Spindle, M17x1, 200mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

KL-0186-1711 H

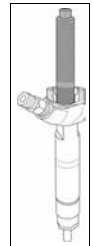
Pull Spindle, M18

The pull spindle is needed if the KL-0040-170 A hydraulic cylinder is to be used as a drive for the injector nozzle puller KL-0186-14 K in conjunction with the vehicle-specific upgrade kit KL-0186-170.



Technical Data:

Connection thread:	M18
Length:	250mm



KL-0186-1611 HA

Pull Spindle, M20x1 with 2 M25 Nuts, 250mm long

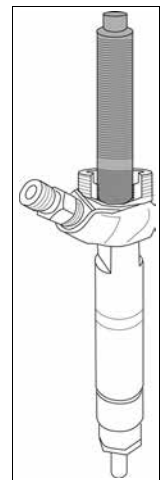
Suitable for injector nozzles equipped with an M20x1 internal thread, such as DENSO injectors. Installed in Renault Relay/Jumper III, Jumper; Fiat Ducato (250), Linea (110), Bravo (198), Doblo (263); Ford Transit; Isuzu D-Max / Rodeo, N-Series; Mazda 3, 5, 6, MPV; Mitsubishi L200, Pajero / Montero; Nissan X-Trail, Promera, Almera, Primera, Navara, Pathfinder; Opel/Vauxhall Astra H, Astra J, Combo, Corsa D, Meriva B, Insignia, Zafira B, Signum, Vectra C; Peugeot Boxer III; Renault Vel Satis, Espace; Saab 9-5; Toyota Avensis, Corolla Verso, RAV 4 III, Land Cruiser 90, Hiace IV, Hilux II, Hilux III, Dyna, Previa 1.6, 1.7, 2.2, 2.5 and 3.0 Common Rail Diesel engines.

The pull spindle is required if the KL-0040-170 A hydraulic cylinder is to be used as a drive for the universal KL-0186-14 K injector nozzle puller set in conjunction with the respective vehicle-specific upgrade kit KL-0186-1610 A or KL-0186-220.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/seized injector nozzles to be extracted with ease.



(Engine codes: 198A3.000, 1KD-FTV, 2AD-FT, 2KD-FTV, 4D56, 4HM, 4HU, 4HV, 4JJ1, 4JK1, 4M41, 6DE1, A16FDH, A16FDL, A17DT, A17DTC, A17DTJ, A17DTR, CD-FTV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FA, P8FB, P9X, PGFA, PGFB, QVFA, QWFA, RF5C, RF-DI, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA, YD22, YD25.)



Technical Data:

Connection thread:	M20x1
Union nut (KL-0186-1611-2):	M25x0.5
Union nut (KL-0186-1611-3):	M25x0.75
Length:	250mm

Scope of Delivery: KL-0186-1611 HA Pull Spindle M20x1 with 2 Nuts

Part No.	Description	Qty
KL-0186-1611-1 H	Pull Spindle M20x1	1
KL-0186-1611-2	Union Nut M25x0.5	1
KL-0186-1611-3	Union Nut M25x0.75	1

KL-0186-1611 A

Pull Spindle, M20x1, with 2 Nuts M25, 145mm long

For application, see KL-0186-1611 HA.

(Engine codes: 198A3.000, 1KD-FTV, 2AD-FT, 2KD-FTV, 4D56, 4HM, 4HU, 4HV, 4JJ1, 4JK1, 4M41, 6DE1, A16FDH, A16FDL, A17DT, A17DTC, A17DTJ, A17DTR, CD-FTV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FA, P8FB, P9X, PGFA, PGFB, QVFA, QWFA, RF5C, RF-DI, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA, YD22, YD25.)

The pull spindle upgrades the universal injector nozzle puller set KL-0186-14 K (in conjunction with the respective vehicle-specific upgrade kit KL-0186-1610 A or KL-0186-220) by making it suitable for use also on very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



Technical Data:

Connection thread:	M20x1
Union nut (KL-0186-1611-2):	M25x0.5
Union nut (KL-0186-1611-3):	M25x0.75
Length:	145mm

Scope of Delivery: KL-0186-1611 A Pull Spindle M20x1, with 2 Nuts

Part No.	Description	Qty
KL-0186-1611-1	Pull Spindle, M20x1, 145mm long	1
KL-0186-1611-2	Union Nut, M25x0.5	1
KL-0186-1611-3	Union Nut, M25x0.75	1



KL-0186-1612 H

Pull Spindle, M16x1, 260mm long

Suitable for injector nozzles with an M16x1 internal thread, such as Denso injectors. Installed in Toyota Diesel engines.

The pull spindle is required if the **KL-0040-170 A** hydraulic cylinder is to be used as a drive for the injector nozzle puller **KL-0186-14 K** in conjunction with the vehicle-specific upgrade kit **KL-0186-1610 B**.



KL-1383-1021 H

Pull Spindle, M25x1

Suitable for injector nozzles with an M25x1 internal thread such as Siemens injectors. Installed in PSA Diesel engines (DW10) etc.

The pull spindle is needed if the **KL-0040-170 A** hydraulic cylinder is to be used as a drive for the **KL-1383-14 K** injector nozzle puller set.

Technical Data:

Connection thread:	M25x1
Length:	240mm



KL-1383-1221 H

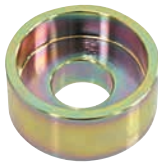
Pull Spindle, M27x1

Suitable for injector nozzles having an M27x1 internal thread. For example, Siemens injectors as installed in PSA Diesel engines (DW10) etc.

This pull spindle is needed if the **KL-0040-170 A** hydraulic cylinder is to be used as a drive for the injector nozzle pullers **KL-1383-12 K** and **KL-1383-14 K** respectively.

Technical Data:

Connection thread:	M27x1
Length:	240mm

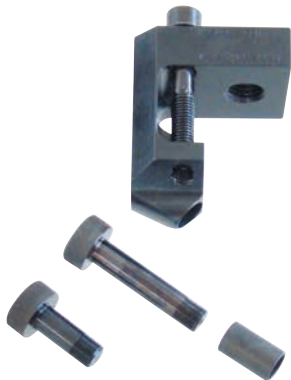


KL-0040-1751

Spacer Ring

This tool is needed if the hydraulic cylinder **KL-0040-170 A** is to be used as a drive for the injector nozzle puller **KL-0369-46 K** and **KL-1383-10 K** respectively.

6



KL-0186-100 (Patented)

Injector Nozzle Puller for M12x1, without Slide Hammer, VW-Audi/BMW/Mercedes/PSA

Applicable to the following Diesel engines: VW-Audi, Seat, Škoda (CFHA, CFJA, CFFB, CAYC); BMW (M47/M57); Mercedes (OM611, OM612, OM613, OM646, OM647, OM648) and PSA (DW10).

This puller allows for the professional extraction of injectors without having to open or dismantle them. A slide hammer such as **KL-0369-4100** (1.5kg) or **KL-0049-300** (4.8kg) is needed to operate the tool.

An indispensable tool when changing a timing chain or removing the valve cover/replacing the valve cover seal.

The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M12x1) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

Scope of Delivery: KL-0186-100 Injector Nozzle Puller for M12x1, without Slide Hammer, VW-Audi/BMW/Mercedes/PSA

Part No.	Description	Qty
KL-0186-1001	Injector Nozzle Puller Base Body for M12x1	1
KL-0186-1002	Special Screw, M12x1	1
KL-0186-1003	Special Screw, M12x1 (long)	1
KL-0186-1004	Sleeve	1

KL-0186-101

(Patented)

Injector Nozzle Puller for M12x1,
with Slide Hammer (1.5kg),
VW-Audi/BMW/Mercedes/PSA

Applicable to the following Diesel engines: VW-Audi, Seat, Škoda (CFHA, CFJA, CFFB, CAYC); BMW (M47/M57); Mercedes (OM611, OM612, OM613, OM646, OM647, OM648) and PSA (DW10).

This puller allows for the professional extraction of injectors without having to open or dismantle them.

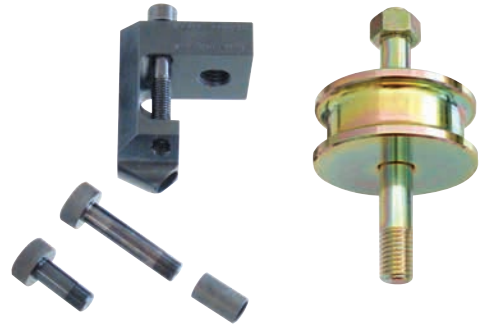
An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M12x1) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

**Scope of Delivery: KL-0186-101 Injector Nozzle Puller for M12x1,
with Slide Hammer 1.5kg, VW-Audi/BMW/Mercedes/PSA**

Part No.	Description	Qty
KL-0186-100	Injector Nozzle Puller for M12x1, without Slide Hammer	1
KL-0369-4100	Slide Hammer Base Tool, 1.5kg	1



KL-0186-102

(Patented)

Injector Nozzle Puller for M12x1,
with Slide Hammer (4.8kg),
VW-Audi/BMW/Mercedes/PSA

Applicable to the following Diesel engines: VW-Audi, Seat, Škoda (CFHA, CFJA, CFFB, CAYC); BMW (M47 / M57); Mercedes (OM611, OM612, OM613, OM646, OM647, OM648) and PSA (DW10).

This puller allows for the professional extraction of injectors without having to open or dismantle them.

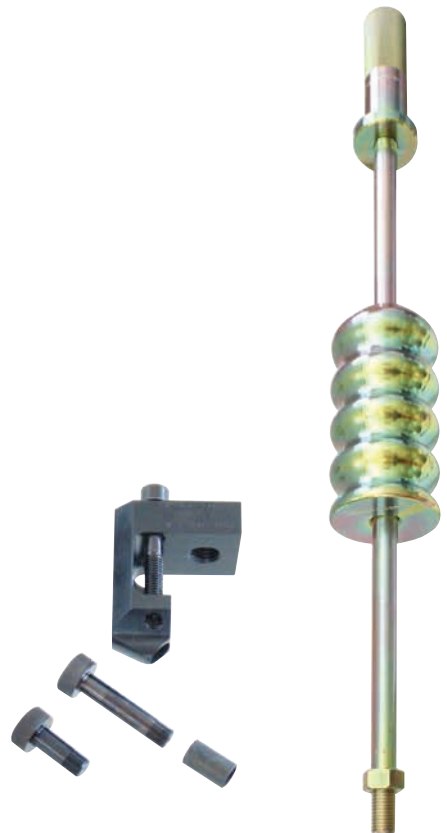
An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

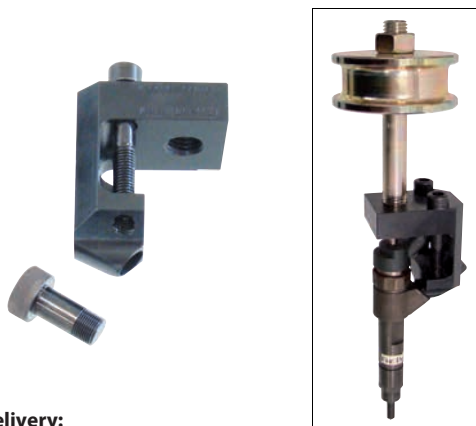
The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M12x1) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

**Scope of Delivery: KL-0186-102 Injector Nozzle Puller for M12x1,
with Slide Hammer 4.8kg, VW-Audi/BMW/Mercedes/PSA**

Part No.	Description	Qty
KL-0186-100	Injector Nozzle Puller for M12x1, without Slide Hammer	1
KL-0049-300	Slide Hammer Base Tool, 4.8kg	1





Scope of Delivery:

KL-0186-110 Injector Nozzle Puller without Slide Hammer

Part No.	Description	Qty
KL-0186-1101	Injector Nozzle Puller Base Body for M14x1.5	1
KL-0186-1102	Special Screw, M14x1.5	1

KL-0186-110

(Patented)

Injector Nozzle Puller for M14x1.5,
without Slide Hammer, VW/Fiat/IVECO

Applicable to Fiat 2.8 JTD Diesel engines; e.g. Ducato, IVECO Daily and VW 2.0 TDI Common Rail engines (first and second generation) e.g. Golf 6, Tiguan, Touran (engine code CFFB) etc.

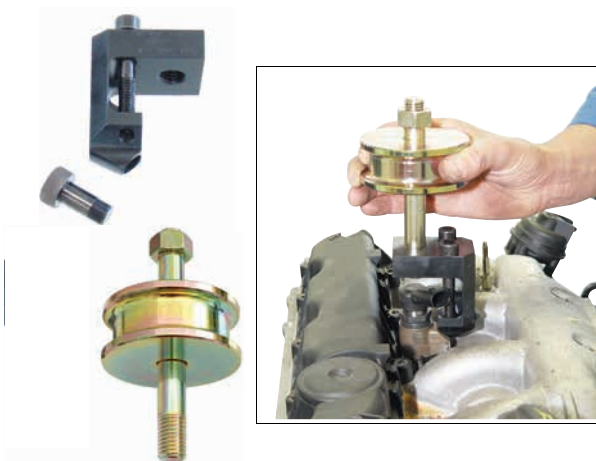
This tool enables the professional removal of injection nozzles without having to open or dismantle them. The slide hammer **KL-0369-4100** (1.5kg) or **KL-0049-300** (4.8kg) is needed to operate the tool.

An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M14x1.5) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

6



Scope of Delivery: KL-0186-111 Injector Nozzle Puller

Part No.	Description	Qty
KL-0186-110	Injector Nozzle Puller for M14x1.5	1
KL-0369-4100	Slide Hammer Base Tool, 1.5kg	1

KL-0186-111

(Patented)

Injector Nozzle Puller for M14x1.5,
with Slide Hammer (1.5kg), VW/Fiat/IVECO

Applicable to the Fiat 2.8 JTD Diesel engines; e.g. Ducato, IVECO Daily, and VW 2.0 TDI Common Rail engines (first and second generation) as fitted to Golf 6, Tiguan, Touran (Engine code CFFB) etc.

This tool enables the professional removal of injection nozzles without having to open or dismantle them.

An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

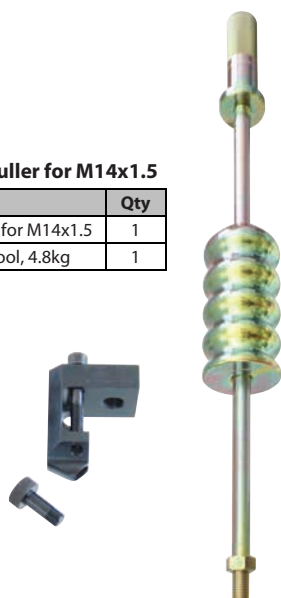
The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M14x1.5) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

Scope of Delivery:

KL-0186-112 Injector Nozzle Puller for M14x1.5

Part No.	Description	Qty
KL-0186-110	Injector Nozzle Puller for M14x1.5	1
KL-0049-300	Slide Hammer Base Tool, 4.8kg	1



KL-0186-112

(Patented)

Injector Nozzle Puller for M14x1.5
with Slide Hammer (4.8kg), VW/Fiat/IVECO

Applicable to the Fiat 2.8 JTD Diesel engines; e.g. Ducato, IVECO Daily, and VW 2.0 TDI Common Rail engines (first and second generation) as fitted to Golf 6, Tiguan, Touran (Engine code CFFB) etc.

This tool enables the professional removal of injection nozzles without having to open or dismantle them.

An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M14x1.5) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

KL-0186-31 K (Patented) Injector Nozzle Puller Set, without Drive

Universally suitable for injector nozzles having an M16x1, M17x1, M18, M20x1, M25x1, M27x1 internal thread Ø, as well as with external thread Ø M14x1.5.

The injector nozzle puller set is designed for the extraction of injector nozzles that are only slightly stuck/seized in place. It is used in conjunction with slide hammer puller **KL-0369-411** or **KL-0369-412**.

The tool set includes various special sockets and pull spindles, to allow virtually any common injector nozzle to be dismantled and removed.

Procedure:

Unscrew injector nozzle top part and threaded ring. Depending on the injector nozzle design, screw pull spindle either into or onto the injector. Then, screw slide hammer puller **KL-0369-411** or **KL-0369-412** (accessory) onto pull spindle. Remove injector nozzle by operating the slide hammer.

Scope of Delivery:

KL-0186-31 K Injector Nozzle Puller Set, without Drive

Part No.	Description	Qty
KL-0186-1611 A	Pull Spindle, M20x1; with 2 Union Nuts, M25	1
KL-0186-1612	Pull Spindle, M16x1, 145mm	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm	1
KL-0369-4606 A	Pull Spindle, M17x1; with Union Nut M27x1	1
KL-1383-1021	Pull Spindle, M25x1, 132mm	1
KL-1383-1221	Pull Spindle, M27x1, 127mm	1
KL-0186-1711	Pull Spindle, M18, 145mm	1
KL-4417-17	Crowfoot Wrench, Size (waf) 17mm	1
KL-1383-1022	Special Socket, Size (waf) 25mm	1
KL-1383-1222 A	Special Socket, Size (waf) 27mm	1
KL-0369-461 A	Special Socket, Size (waf) 29mm	1
KL-1283-103	Special Socket, Size (waf) 30mm	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0186-2201	Special Insert	1
KL-0369-420	Injector Nozzle Puller	1
KL-0369-4111	Injector Nozzle Puller Adaptor, M18 to M16x1.5	1
KL-0186-3190	Plastic Storage Case	1



Technical Data:

Pull spindles for external thread:	M14x1.5
Pull spindles for internal thread:	M16x1, M17x1, M18, M20x1, M25x1, M27x1
Union nuts:	M27x1, M25x0.5, M25x0.75

6

KL-1383-1113 Pull Spindle, M14x1.5

Suitable for injection nozzles with an M14x1.5 external thread, e.g. Bosch or Delphi injector nozzles as installed in Mercedes, PSA and VW Diesel engines; e.g. engine codes: OM629, OM642, OM646; DV4 DW12 and CBD etc.



Technical Data:

Connecting thread injector nozzle:	M14x1.5
Connecting thread slide hammer:	M16x1.5
Length:	127mm

KL-0369-4606 A Pull Spindle, M17x1, with Nut, M27x1, 132mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in Alfa Romeo, BMW, Fiat, Mercedes, PSA (DW10) and Renault Diesel engines.

The pull spindle upgrades our **KL-0369-46 K**, **KL-1283-11 K**, **KL-1283-13 K**, **KL-1383-11 K** and **KL-1683-10 K** tools sets so that these can also be used with very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	132mm

Scope of Delivery:

KL-0369-4606 A Pull Spindle, M17x1, with Nut, M27x1

Part No.	Description	Qty
KL-0369-4606-1	Pull Spindle, M17x1, 132mm long	1
KL-0369-4606-2	Union Nut, M27x1	1



Technical Data:

Connecting thread injector nozzle:	M25x1
Connecting thread slide hammer:	M16x1.5
Length:	127mm

KL-1383-1021

Pull Spindle, M25x1

Suitable for injection nozzles with M25x1 internal thread, such as Siemens injector nozzles fitted to PSA Diesel engines (DW10) etc.

Note:
Special socket **KL-1383-1022** is required to remove the nozzle head.



Technical Data:

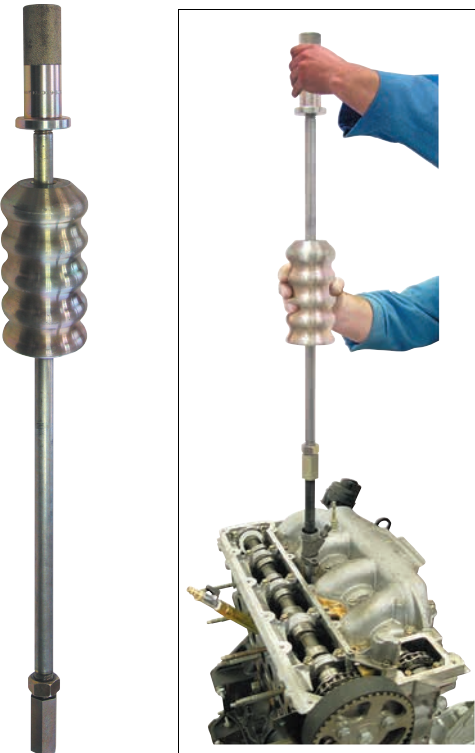
Connecting thread injection nozzle:	M27x1
Connecting thread slide hammer:	M16x1.5
Length:	127mm

KL-1383-1221

Pull Spindle, M27x1

Suitable for injection nozzles with M27x1 internal thread, such as Siemens injector nozzles fitted to PSA Diesel engines (DW10) etc.

Note:
Special socket **KL-1383-1222** is required to remove nozzle head.



KL-0369-411

Injector Nozzle Puller with Slide Hammer (4.8kg)

This tool is designed for the extraction of injection nozzles which are only slightly seized in place. It is used in conjunction with the pull spindle **KL-0369-4606** (external connection thread M17x1), **KL-1383-1021** (external connection thread M25x1), **KL-1383-1221** (external connection thread M27x1) or **KL-1383-1113** (internal connection thread M14x1.5). Consists of slide hammer puller **KL-0049-300** and adaptor **KL-0369-4111**.

Technical Data:

Connection thread:	M16x1.5
Overall length:	710mm
Hammer weight:	4.8kg



KL-0369-412

Injector Nozzle Puller with Slide Hammer (1.5kg)

This tool is designed for the extraction of injection nozzles which are only slightly seized in place. It is used in conjunction with the pull spindle **KL-0369-4606** (external connection thread M17x1), **KL-1383-1021** (external connection thread M25x1), **KL-1383-1221** (external connection thread M27x1) or **KL-1383-1113** (internal connection thread M14x1.5). Consists of slide hammer **KL-0369-4100** and adaptor **KL-0369-4111**.

Technical Data:

Connecting thread:	M16x1.5
Overall length:	195mm
Hammer weight:	1.5kg

KL-0186-3101

Adaptor, M16 to M16x1.5

The **KL-0186-3101** adaptor is designed to be used in conjunction with a slide hammer puller (accessory) having an **M16** retaining thread and a **GEDORE Automotive** pull spindle such as **KL-0186-1611 A**, **KL-0186-1612**, **KL-1383-1113**, **KL-0369-4606 A**, **KL-1383-1021**, **KL-1383-1221**, **KL-0186-1711** etc. It, thus, allows for the extraction of injector nozzles that are only slightly stuck/seized in place.



Technical Data:

Adaptor:	M16 to M16x1.5
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KL-0186-3102

Adaptor, M22x2 to M16x1.5

The **KL-0186-3102** adaptor is designed to be used in conjunction with a slide hammer puller (accessory) having an **M22x2** retaining thread and a **GEDORE Automotive** pull spindle such as **KL-0186-1611 A**, **KL-0186-1612**, **KL-1383-1113**, **KL-0369-4606 A**, **KL-1383-1021**, **KL-1383-1221**, **KL-0186-1711** etc. It, thus, allows for the extraction of injector nozzles that are only slightly stuck/seized in place.



Technical Data:

Adaptor:	M22x2 to M16x1.5
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KL-0186-3103

Adaptor, M22x2 to M18

The **KL-0186-3103** adaptor is designed for the extraction of injector nozzles that are only slightly seized in place. It is used in conjunction with a slide hammer having an **M22x2** retaining thread (available as accessory) and the **GEDORE Automotive** injector nozzle puller **KL-0186-100** or **KL-0186-110** respectively.



KL-1383-1022

Special Socket, Size (waf) 25mm, 1/2" Drive

Necessary to loosen/unscrew the nozzle head, e.g. on Siemens injector nozzles as installed in 2.0 DW10 HDI engines etc.



Technical Data:

Size (waf):	25mm
Drive:	1/2"
Length:	100mm

KL-1383-1222 A

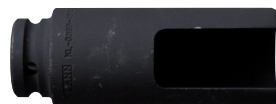
Special Socket, Size (waf) 27mm



KL-0369-461 A

Special Socket, Size (waf) 29mm, 1/2" Drive

Necessary to loosen/unscrew the nozzle head, e.g. on Bosch injector nozzles as found in CDI and HDI engines etc.



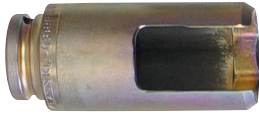
Technical Data:

Size (waf):	29mm
Drive:	1/2"
Length:	100mm

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet





KL-1283-103

Special Socket,
Size (waf) 30mm, 1/2" Drive

Necessary to loosen/unscrew the nozzle top part, e.g. on Bosch injector nozzles installed in Renault, Nissan 1.9 F9Q engines etc.

Technical Data:

Size (waf):	30mm
Drive:	1/2"
Length:	100mm



KL-0369-4505 A

Special Bit Insert, Size (waf) 10mm

Necessary to remove the threaded ring, e.g. on Bosch injector nozzles installed in CDI and HDI engines etc.

Technical Data:

Size (waf):	10mm
Drive:	10mm
Length:	38mm

6



KL-0283-60 K

Injector Nozzle Puller Set, VW

Suitable for use on VW-Audi Diesel engines e.g.:

- 1.4 SDI / TDI
- 1.9 D / SDI / TDI / TDI (PD)
- 2.0 TDI SDI / TDI (PD)
- 2.0 TDI (PD 4-Valve)
- 2.0 TDI (Common Rail)
- 2.5 TDI
- 2.5 TDI (PD)
- 2.8 TDI (PD)
- 2.7 / 3.0 TDI (Common Rail)
- 4.2 TDI (Common Rail)

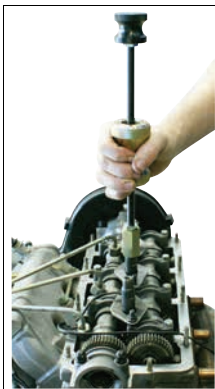
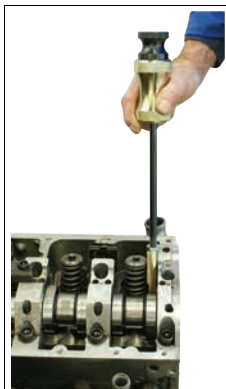
This tool allows for the quick and professional extraction of injector nozzles and unit-injector (PD) elements from Diesel engines.

Advantage:

- Its special composition makes this VW injector nozzle puller set the ideal tool for garages and workshops.
- Substantial time savings and professional working.

Scope of Delivery: KL-0283-60 K Injector Nozzle Puller Set, VW

Part No.	Description	Qty
KL-0283-6011	Injector Nozzle Puller Adaptor, VW	1
KL-0283-6012	Injector Nozzle Puller Adaptor, M14x1.5	1
KL-0283-6013	Injector Nozzle Puller Adaptor, M10	1
KL-0283-6014	Injector Nozzle Puller Adaptor, VW	1
KL-0283-602	Injector Nozzle Puller, without Slide Hammer, VW PD 2.0 16V	1
KL-0049-101	Slide Hammer (base tool)	1
KL-0049-1003	Hex Nut, M10	1
KL-0283-6090	Plastic Storage Case	1



KL-0283-600 K

Injector Nozzle Puller Set without Slide Hammer, VW

Suitable for use on VW-Audi Diesel engines e.g.:

- 1.4 SDI / TDI
- 1.9 D / SDI / TDI / TDI (PD)
- 2.0 TDI SDI / TDI (PD)
- 2.0 TDI (PD 4-Valve)
- 2.0 TDI (Common Rail)
- 2.5 TDI
- 2.5 TDI (PD)
- 2.8 TDI (PD)
- 2.7 / 3.0 TDI (Common Rail)
- 4.2 TDI (Common Rail)

This tool is designed for the quick and professional extraction of injector nozzles and unit-injector (PD) elements from Diesel engines. Set is used in conjunction with slide hammer KL-0049-100.

Advantage:

- Substantial time savings and professional working.

Scope of Delivery: KL-0283-600 K Injector Nozzle Puller Set without Slide Hammer

Part No.	Description	Qty
KL-0283-6011	Injector Nozzle Puller Adaptor, VW	1
KL-0283-6012	Injector Nozzle Puller Adaptor, M14x1.5	1
KL-0283-6013	Injector Nozzle Puller Adaptor, M10	1
KL-0283-6014	Injector Nozzle Puller Adaptor, VW	1
KL-0283-602	Injector Nozzle Puller without Slide Hammer, VW PD 2.0 16V	1
KL-0283-6090	Plastic Storage Case	1



KL-0283-601 K

Injector Nozzle Puller Set (small set), VW

Suitable for use on VW-Audi Diesel engines e.g.:

- 1.4 SDI / TDI
- 1.9 D / SDI / TDI / TDI (PD)
- 2.0 TDI SDI / TDI (PD)
- 2.0 TDI (Common Rail)
- 2.5 TDI
- 2.5 TDI (PD)
- 2.8 TDI (PD)
- 2.7 / 3.0 TDI (Common Rail)
- 4.2 TDI (Common Rail)

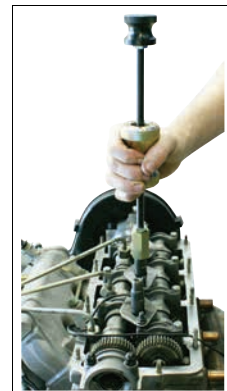
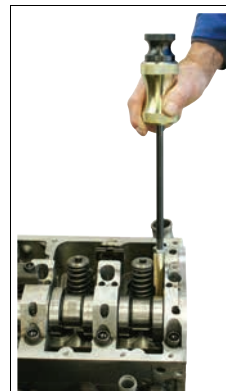
This tool is designed for the quick and professional extraction of injection nozzles from Diesel engines.

Advantage:

- Substantial time savings and professional working.

Scope of Delivery: KL-0283-601 K Injector Nozzle Puller Set (small set), VW

Part No.	Description	Qty
KL-0283-6011	Injector Nozzle Puller Adaptor, VW	1
KL-0283-6012	Injector Nozzle Puller Adaptor, M14x1.5	1
KL-0283-6013	Injector Nozzle Puller Adaptor, M10	1
KL-0283-6014	Injector Nozzle Puller Adaptor, VW	1
KL-0049-101	Slide Hammer Base Tool	1
KL-0049-1003	Hex Nut, M10	1
KL-0283-6090	Plastic Storage Case	1





KL-0283-602

Injector Nozzle Puller
without Slide Hammer, VW PD 2.0 16V

Suitable for use on 2.0 TDI (PD, 4-valve) Diesel engines.

This tool is required for the quick and professional extraction of unit-injector (PD) elements.



KL-0283-61

Dial Gauge Stand,
with Dial Gauge (Ø 58mm)

Required for adjusting the unit-injector (PD) elements.

Scope of Delivery:

KL-0283-61 Dial Gauge Stand, with Dial Gauge (Ø 58mm)

Part No.	Description	Qty
KL-0500-502	Dial Gauge Stand	1
KL-0128-1	Dial Gauge (Ø 58mm)	1

6



KL-0186-14 K

(German Utility Model)

Injector Nozzle Puller Set (Universal),
with Accessories

For Description, please refer to Chapter 6.4-01.



KL-0186-1233

Set of Support Bolts, M6, 145mm

Applicable to VW-Audi, Seat, Škoda 2.0 TDI (CFFB) Common Rail Diesel engines and Opel/Vauxhall 2.0 CDTi, VCDi (Z 20 DM, Z 20 DMH, Z 20 S) Common Rail Diesel engines. Installed, for example, in: VW Golf VI (5K), Eos (1F), Sharan (7N), Passat V (3C), Passat VI (36), Jetta (16), Passat CC (35), Tiguan (5N); Audi A3 (8P), Q3 (8U); Seat Alhambra (71); Škoda Superb II (3T); Opel/Vauxhall Antara, Chevrolet Captiva, Nubria estate car and Lacetti etc.

The **KL-0186-1233** support bolt set upgrades the injector nozzle puller set **KL-0186-14 K** by making it also suitable for use on the above mentioned engines.

KL-0049-2009

Adaptor, M14 to M14x1.5

Intended for use with slide hammer **KL-0049-200**, to dismount the injector at e.g. **VW-Audi TDI and BMW (e.g. M47) engines.**



KL-0049-200

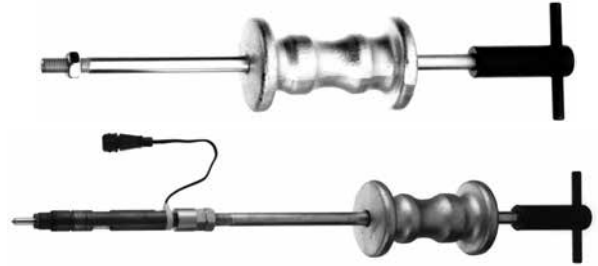
Slide Hammer Base Tool, 2.35kg

Universal application.

Intended for pulling or driving out the most different components. Used in conjunction with the respectively appropriate adaptor.

Scope of Delivery: KL-0049-200 Slide Hammer Base Tool, 2.35kg

Part No.	Description	Qty
KL-0049-2001	Pull Rod for KL-0049-2	1
KL-0049-2002	Hammer Weight, 2.4 kg	1
KL-0049-2004	Hex Nut, M14	1
KL-0049-2006	T-Handle (metal)	1



Technical Data:

Hammer Weight:	2.35kg
Length:	480mm

KL-0511-4

Special Socket (waf 17mm)

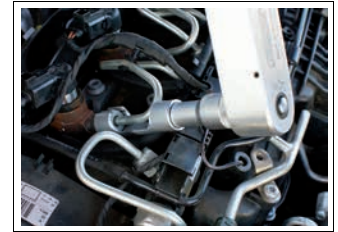
Universally suitable for the union nuts on high-pressure fuel lines in VW-Audi, Seat, Škoda Common Rail Diesel engines as found in: **VW: Polo (6R); Golf (1K), (5K, AJ); Passat (3C); Audi: A1 (8X); A3 (8P); A4 (8K), A6 (4F); A8 (4E); Seat: Ibiza (6J); Leon (1P); Škoda: Fabia II (54); Octavia II (1Z).**

Specifically cut-out socket (waf 17mm) designed to facilitate the correct loosening and tightening of the union nuts that are found on high-pressure fuel lines of Common Rail Diesel engines.



Technical Data:

Overall length:	78mm
Cut-out length:	41mm
Drive:	3/8"
Dimension:	17mm



KL-0583-10 K

(German Utility Model)

Injector Nozzle Puller Set, BMW

Suitable for use on **BMW Common Rail Diesel engines e.g.: M47TU, M57 and M57TU.**

The **KL-0583-10 K** injector nozzle puller enables the removal of very tight-fitting/seized injection nozzles to be performed in situ on the vehicle without having to remove the cylinder head. The set also includes all the necessary tools for the cleaning of injector nozzle locating bores and seal seats.

The special extraction bridge and the pull spindle allow the user to extract the injector nozzle quickly and easily. (For this purpose, the injection nozzle needs to be opened.) The use of the compressed air adaptor prevents impurities from entering the combustion chamber during the cleaning process.

Procedure:

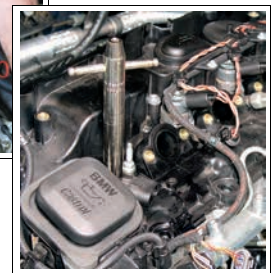
Unscrew nozzle head, screw in pull spindle, unscrew valve cover screws (4 screws), mount extraction bridge and screw on shoulder nut. Then, pull out injector nozzle by turning the shoulder nut.

Technical Data:

Weight:	7.2kg
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Scope of Delivery: KL-0583-10 K Injector Nozzle Puller Set, BMW

Part No.	Description	Qty
KL-0583-101	Puller (base tool)	1
KL-0583-102	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore M10x1	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0583-1090	Plastic Storage Case	1





Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	200mm

Scope of Delivery: KL-0583-1005 A Pull Spindle M17x1 with Nut

Part No.	Description	Qty
KL-0583-1005-1	Pull Spindle, M17x1, 200mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

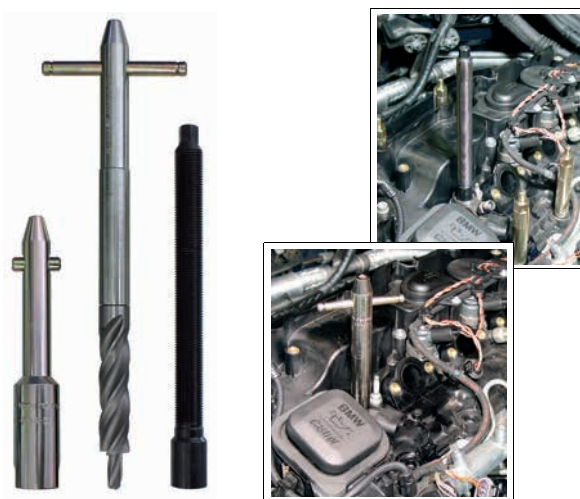
KL-0583-1005 A

Pull Spindle, M17x1, with Nut, M27x1, 200mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in PSA (DW10), BMW, Fiat, Mercedes Diesel engines.

The pull spindle complements the injector nozzle pullers **KL-0583-10 K** and **KL-0186-14 K** respectively (in conjunction with the vehicle-specific upgrade kits **KL-0186-1234**, **KL-0186-130**, **KL-0186-190**, **KL-0186-210**) making these suitable for use also on very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



KL-0583-103 A

Upgrade Kit, BMW

Designed for the BMW Turbo Diesel engine M47.

The upgrade kit is used in conjunction with the injector nozzle puller set **KL-0583-10 K**, thus allowing for the professional and precise removal of the specified injector nozzles. The **KL-0186-501** extension is specially designed for use on very deep-seated injector nozzles.

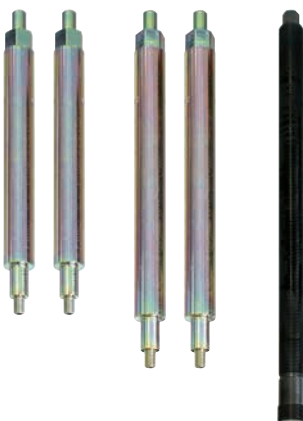
Note:

When using the **KL-0186-501** extension, the T-handle of the extension and the T-handle of cleaning tool **KL-0186-104** need to be interchanged.

Scope of Delivery: KL-0583-103 A Upgrade Kit, BMW

Part No.	Description	Qty
KL-0583-1031 A	Cleaning Tool for Injector Nozzle Seat	1
KL-0583-1032	Pull Spindle, 200mm long, for M14x1.5	1

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KL-0583-104

Upgrade Kit,
Land Rover Freelander 2.0 TD4

The **KL-0583-104** kit upgrades the injector nozzle puller set **KL-0583-10 K** by making it also suitable for use on Land Rover Freelander 2.0 TD4 vehicles.

Scope of Delivery: KL-0583-104 Upgrade Kit, Landrover Freelander 2.0 TD4

Part No.	Description	Qty
KL-0583-1041	Socket Pin, 155mm long, with Set Screw	2
KL-0583-1042	Socket Pin, 180mm long, with Set Screw	2
KL-0583-1005 H	Pull Spindle, M17x1, 315mm long	1



KL-0511-50

Disconnect Tool for Leakage Fuel Line

Applicable to the BMW M57 (D306D2, D306D3, D306D4, D306D5, D30T2) 6-cylinder Diesel engines. As installed in BMW 3 Series (E90, E91, E92, E93); 5 Series (E60, E61); 6 Series (E63, E64); 7 Series (E65, E66); X3 (E83); X5 (E70) and X6 (E71).

Indispensable tool to professionally disconnect the leakage fuel line from injectors. Improper removal methods, for example, by using a pair of pliers, may cause damage to the leakage fuel line resulting in the entire line in the engine compartment to be replaced.

KL-0057-1

Socket for Pre-Combustion Chamber Engines

Suitable for use on Mercedes engines OM615, OM616 and OM617.

Used for unscrewing diesel pre-chamber threaded lock rings.

Scope of Delivery: KL-0057-1 Socket for Pre-Combustion Chamber Engines

Part No.	Description	Qty
KL-0057-0001	Screw	1
KL-0057-0002	Nut (with pins)	1



Technical Data:

Drive: 1/2"



KL-0369-3

Multi-Spline Socket for Pre-Combustion Chamber

Mercedes engines OM601, OM602, OM603 OM604, OM605 and OM606.

Used for removing Diesel pre-chamber threaded lock rings.

Technical Data:

Drive: 1/2"



KL-0049-25

Slide Hammer Puller for Pre-Combustion Chamber

Applicable to Mercedes engines OM615, OM616, OM617, OM601, OM602, OM603, OM604, OM605 and OM606.

Designed to remove stuck Diesel pre-combustion chambers.

Scope of Delivery:

KL-0049-25 Slide Hammer Puller for Pre-Combustion Chamber

Part No.	Description	Qty
KL-0049-2001	Pull Rod for KL-0049-2	1
KL-0049-2002	Hammer Weight, 2.4kg	1
KL-0049-2004	Hex Nut, M14	1
KL-0049-2006	T-Handle (metal)	1
KL-0049-2008	Adaptor, M14 to M12	1
KL-0369-4	Puller Bolt for Pre-Combustion Chamber, Mercedes	1



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KL-0369-11

Cleaning Tool for Injector Nozzle Holder Seat

Applicable to Mercedes Diesel engines OM601, OM602, OM603, OM604, OM605 and OM606

Indispensable for the quick and professional cleaning of the pre-combustion chamber sealing surface of the injector nozzle holder seat.

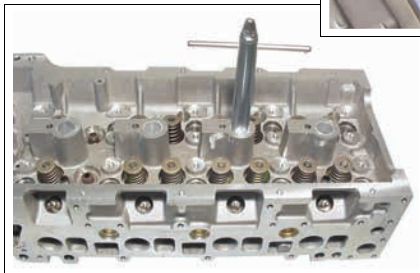
Technical Data:

Length:	218mm
Cleaning tool Ø:	33mm

Scope of Delivery: KL-0369-11 Cleaning Tool for Injector Nozzle Holder Seat

Part No.	Description	Qty
KL-0369-1101	Housing	1
KL-0369-1102	Milling Spindle (Drive 1/2")	1
KL-0369-1103	End Milling Cutter, Ø 33mm	1
KL-0369-1104	Cheese-Head Screw, M8x20mm	1
KL-0369-1105	Washer, Ø 8x21mm	1
KL-0369-1106	Circlip	1
KL-0369-1107	Protection Sleeve	1





KL-0369-45 K

Injector Nozzle Tool Set, Mercedes CDI

Applicable to Mercedes CDI engines OM611, OM612, OM613, OM628, OM646*, OM647, OM648 etc. (*not suitable for OM646 EVO)

The injector nozzle tool set **KL-0369-45 K** (composed of injector nozzle puller **KL-0369-41**, injector nozzle puller **KL-0369-45**, cleaning tool **KL-0369-20 A**, compressed-air adaptor **KL-0369-55 A**, screw tap **KL-0369-51**, and plastic storage case **KL-0369-4590**) enables the professional removal of injector nozzles.

The injector nozzle puller with slide hammer **KL-0369-41** is designed for the removal of injection nozzles which are only slightly seized in place without having to dismantle them. The injector nozzle puller with pull spindle **KL-0369-45** enables the removal of very tight-fitting or stuck injector nozzles to be performed directly on the vehicle. It is not necessary to remove the cylinder head from the vehicle using either of the pullers. The cleaning tool **KL-0369-20 A** allows the injection nozzle mounting hole, the nozzle seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation. By screwing the compressed air adaptor **KL-0369-55 A** into the glow plug bore and injecting air into the combustion chamber, impurities are prevented from entering the latter.

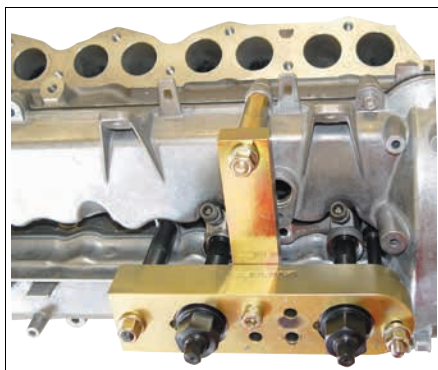
The screw tap with drill bit **KL-0369-51** is used for recutting and cleaning the tapped hole for the nozzle holder. This procedure is important before re-installing the injector nozzle.

Scope of Delivery:

KL-0369-45 K Injector Nozzle Tool Set, Mercedes CDI

Part No.	Description	Qty
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-41	Injector Nozzle Puller with Slide Hammer	1
KL-0369-45	Injector Nozzle Puller with Pull Spindle	1
KL-0369-51	Screw Tap, M6, with Drill Bit	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore M10x1	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-4590	Plastic Storage Case	1

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KL-0369-46 K

Injector Nozzle Puller, Mercedes CDI

Applicable to Mercedes CDI engines OM668, e.g. A-Class

The **KL-0369-46 K** injector nozzle puller allows the extraction of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without having to remove the cylinder head.

On A-Class engines, the removal of injector nozzles is particularly difficult, since on these engines always two injector nozzles are held by one retaining clip. This means, that if one of the injector nozzles has to be removed, the second one needs be pulled out at the same time.

By using the special extraction bridge and the two pull spindles, the injector nozzles can be removed quickly and easily.

Procedure for the removal of injector nozzles:

Unscrew top part of injector nozzles by means of the special sockets included in the set. Screw pull spindles into injector nozzles, place pre-assembled extraction bridge onto valve cover and screw on shoulder nuts. Remove injector nozzles by evenly turning the shoulder nuts.

Scope of Delivery:

KL-0369-46 K Injector Nozzle Puller, Mercedes CDI

Part No.	Description	Qty
KL-0369-460 K	Injector Nozzle Puller Upgrade Kit	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1

KL-0369-4606 A

Pull Spindle, M17x1, with Nut, M27x1, 132mm long

Suitable for injector nozzles with an M17x1 internal thread, such as BOSCH injectors. Installed in Alfa Romeo, BMW, Fiat, Mercedes, PSA (DW10) and Renault Diesel engines.

The pull spindle upgrades our KL-0369-46 K, KL-1283-11 K, KL-1283-13 K, KL-1383-11 K and KL-1683-10 K tools sets so that these can also be used with very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.



Technical Data:

Connection thread for injector nozzle:	M17x1
Union nut:	M27x1
Length:	132mm

Scope of Delivery:

KL-0369-4606 A Pull Spindle, M17x1, with Nut, M27x1

Part No.	Description	Qty
KL-0369-4606-1	Pull Spindle, M17x1, 132mm long	1
KL-0369-4606-2	Union Nut, M27x1	1

KL-0186-170

(Patented)

Upgrade Kit for KL-0186-14 K

Applicable to Mercedes (OM651), Chevrolet (Z20DMH, Z20D1) and Opel/Vauxhall (Z22DMH) Diesel engines; as installed, for example, in: Mercedes C-Class (W204/S204 from 2007 onwards), E-Class (W212 from 2009 onwards), E-Class Coupé/Convertible (W207/C207 from 2009 onwards), GLK (X204 from 2008 onwards) and Sprinter II (906 from 2006 onwards); Chevrolet Cruze (J300), Orlando (J309) and Opel/Vauxhall Antara (L07).

The KL-0186-170 upgrade kit enables the injector nozzle puller set KL-0186-14 K also to be used on the above mentioned engines.

Scope of Delivery:

KL-0186-170 Upgrade Kit for KL-0186-14 K (to form KL-0186-17 K)

Part No.	Description	Qty
KL-0186-1233	Set of Support Bolts, M6, 145mm long	1
KL-0186-1711	Pull Spindle, M18, 145mm long	1
KL-0369-420	Injector Nozzle Puller	1
KL-0369-511 A	Screw Tap, M7, with Drill Bit	1



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KL-0369-41

Injector Nozzle Puller with Slide Hammer

Applicable to Mercedes CDI engines OM611, OM612, OM613, OM628, OM646*, OM647, OM648 etc. (*not suitable for OM646 EVO)

The puller is designed for the extraction of injector nozzles which are only slightly seized in place, without having to dismantle them or having to remove the cylinder head from the vehicle.

Its special design enables the puller to be supported additionally by the steel ball in the valve cover. This will prevent the puller from tilting during the loosening process.

Technical Data:

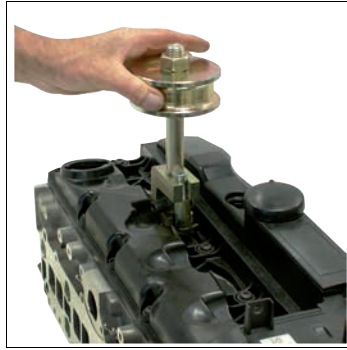
Overall length:	250mm
Fork opening:	12mm

Scope of Delivery:

KL-0369-41 Injector Nozzle Puller with Slide Hammer, Mercedes

Part No.	Description	Qty
KL-0369-410	Injector Nozzle Puller without Slide Hammer, Mercedes	1
KL-0369-4103	Pull Rod, M18	1
KL-0369-4104	Slide Hammer, 1.5kg	1
KL-0049-3004	Nut, M18	1





Technical Data:

Total Length:	200mm
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KL-0369-42

(Patented)

Injector Nozzle Puller with 1.5kg Slide Hammer, Mercedes

Applicable to Mercedes CDI engines OM651 (Vehicles: C-Class (W/S204) 2007-, E-Class (W 212) 2009-, E-Class Coupe / Convertible (A/C 207) 2009-, GLK (X204) 2008- and Sprinter II (906) 2006-).

The puller allows for the extraction of only slightly seized injector nozzles without having to remove the cylinder head from the vehicle. (Note: The injector nozzle cannot be dismantled)

Thanks to the special design of the puller, the injector nozzle can be fixed via the holder in the fork head. This prevents the puller from tilting during the removal process and ensures, at the same time, optimum power transmission.

Scope of Delivery: KL-0369-42 Injector Nozzle Puller with 1.5kg Slide Hammer

Part No.	Description	Qty
KL-0369-420	Injector Nozzle Puller	1
KL-0369-4100	Slide Hammer Puller Base Tool, 1.5kg	1

KL-0369-45

Injector Nozzle Puller with Pull Spindle

Applicable to Mercedes CDI engines OM611, OM612, OM613, OM646*, OM647 and OM648 etc. (*except OM646 EVO)

Allows the removal of very tight-fitting or stuck injector nozzles to be performed in situ on the vehicle, without the need for disassembling the cylinder head.

Procedure:

Unscrew nozzle head, screw in pull spindle, insert support rings, push support sleeve over the spindle and screw on shoulder nut. Then, remove nozzle by turning shoulder nut.

Scope of Delivery: KL-0369-45 Injector Nozzle Puller with Pull Spindle

Part No.	Description	Qty
KL-0369-4501	Support Sleeve	1
KL-0369-4606	Pull Spindle, M17x1, 132mm long	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4504	Support Ring	1
KL-0021-0006	Axial Bearing	1
KL-0040-3005	Circlip SB35	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-0014-0030	Molybdenum Disulphide Paste	1



Technical Data:

Overall length:	150mm
Drive:	24mm

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KL-0369-20 A

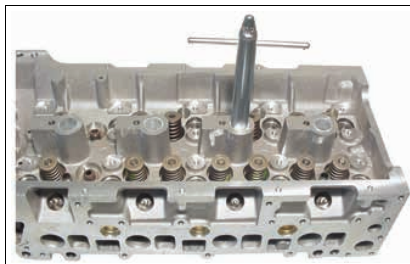
Cleaning Tool for Injector Nozzle Seat, Common Rail Diesel Engines

Applicable to Common Rail Diesel engines:

- Mercedes OM611, OM612, OM613, OM639, OM640, OM642, OM646, OM647, OM648, OM651, OM668, Smart R660
- PSA 2.7 HDI / engine: DT17 and 3.0 HDI engine: DT20
- Chrysler 2.5 crd / engine: OM664
- Toyota 3.0 D-4D / engine: 1 KD-FTV
- Toyota 2.2 D-4D / engine: 2 AD-FHV, 2 AD-FTV
- Lexus 2.2 Diesel / engine: 2 AD-FHV

In a single operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seat, and the small aperture leading to the combustion chamber.

Important procedure before reinstalling an injector nozzle in order to prevent leakage between the cylinder head and the injector.



Technical Data:

Drive:	T-Handle
Length:	261mm
Cleaning tool Ø:	7.5/17/19.1mm

KL-0369-54

Compressed Air Adaptor Kit, M8x1, M9x1, M10x1 and M10x1.25

Universally suitable for use on glow plug mounting bore threads M8x1, M9x1, M10x1 and M10x1.25, as found in Alfa Romeo, BMW, Chrysler, Citroën, Fiat, Ford, Lancia, Lexus, Mercedes, Nissan, Opel/Vauxhall, Renault, Saab, Suzuki, Toyota, Volvo, etc.

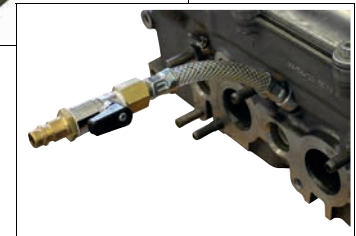
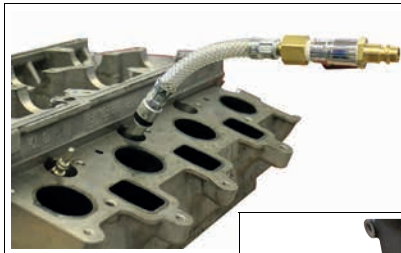
With the aid of the compressed air adaptor (in conjunction with the corresponding thread adaptor if necessary), which is to be screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter. The compressed air adaptor features a flexible hose allowing access even to glow plug bores that are hard to reach.

Technical Data:

Connection thread:	M8x1 / M9x1 / M10x1 / M10x1.25
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Scope of Delivery: KL-0369-54 Compressed Air Adaptor Kit

Part No.	Description	Qty
KL-0369-540	Compressed Air Adaptor, M10x1, with Flexible Hose	1
KL-0369-541	Thread Adaptor, M10x1 to M8x1	1
KL-0369-542	Thread Adaptor, M10x1 to M10x1.25	1
KL-0369-543	Thread Adaptor, M10x1 to M9x1	1



KL-0369-55 B

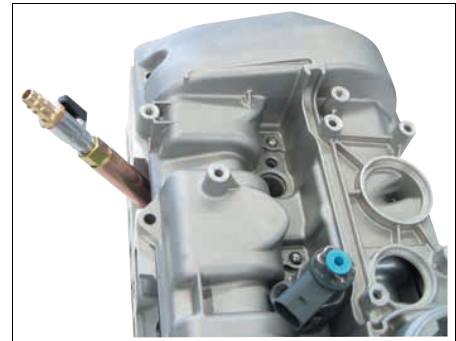
Compressed Air Adaptor for Glow Plug Bore

Universally applicable to, e.g., BMW, Mercedes, Chrysler, Opel/Vauxhall, Nissan, Renault etc.

With the aid of the **KL-0369-55 B** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

Technical Data:

Thread:	M10x1
Length:	178mm
Pipe Ø:	15x110mm



KL-0369-462 K

Cleaning Tool with Compressed Air Adaptor, for Injector Nozzle Seat

Applicable to Mercedes CDI engines OM611, OM612, OM613, OM646, OM647, OM648 and OM668. (not suitable for OM646 EVO)

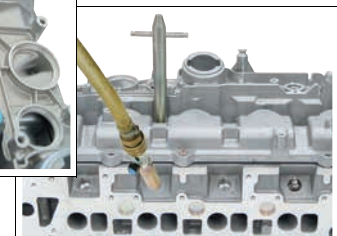
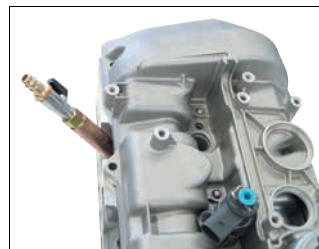
In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

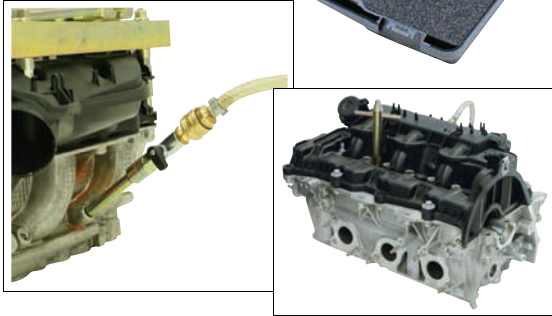
Impurities can be prevented from entering the combustion chamber by screwing the compressed air adaptor **KL-0369-55 A** into the glow plug bore hole and injecting air into the combustion chamber.

Scope of Delivery:

KL-0369-462 Cleaning Tool with Compressed Air Adaptor

Part No.	Description	Qty
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seal Seat	1
KL-0369-55 B	Compressed Air Adaptor for M10x1 Glow Plug Bore	1
KL-1383-1329	Plastic Storage Case	1





KL-1383-132 K

Cleaning Tool Set with Compressed Air Adaptor, for Injector Nozzle Seat

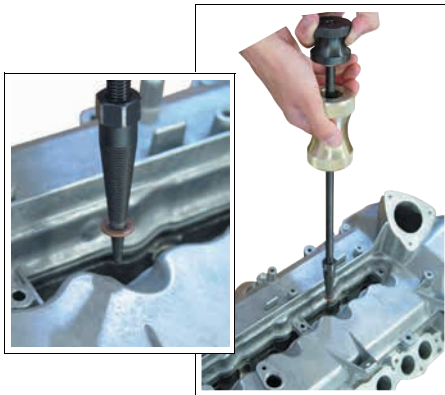
Applicable to: Mercedes: **OM639, OM640, OM642, OM651**; PSA: **2.7 HDI engine: DT17, 3.0 HDI engine: DT20**

The special design of the cleaning tool **KL-0369-20 A** allows the injector nozzle mounting hole, the nozzle seal seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation.

Impurities can be prevented from entering the combustion chamber by screwing the compressed air adaptor **KL-1383-118** into the glow plug bore hole and injecting air into the combustion chamber.

Scope of Delivery: KL-1383-132 K Cleaning Tool Set with Compressed Air Adaptor, for Injector Nozzle Seat, Mercedes/PSA

Part No.	Description	Qty
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore M8x1	1
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-1329	Plastic Storage Case	1



KL-0369-59

Puller for Sealing Ring

Universally suitable for sealing rings with an internal diameter of 4-16mm, e.g. injector nozzle sealing rings as found in Diesel engines on BMW, Mercedes, PSA etc.

The **KL-0369-59** puller is designed for the professional removal of sealing rings; for example of those located between the injector nozzle and cylinder head.

To remove the sealing ring, screw the tapered tip of the tool into the ring, then pull it out with the aid of the slide hammer.

Technical Data:

Slide hammer weight:	0.9kg
Length:	385mm
For sealing ring internal Ø:	4-16mm

6



KL-0369-51 A

Screw Tap, M6, with Drill Bit, Mercedes

Applicable to Mercedes CDI engines OM611, OM612, OM613, OM646*, OM647 and OM648 etc. (*except OM646 EVO)

For re-tapping and cleaning the threaded bore hole in which the injection nozzle holder is fixed. These are indispensable work steps before installing/re-installing an injector.

Technical Data:

Length:	100mm
Thread:	M6



KL-0369-511 A

Screw Tap, M7, with Drill Bit with Spiral Grooves, Mercedes

Applicable to Mercedes OM651 CDI engines.

For re-tapping and cleaning the threaded bore hole in which the injection nozzle holder is fixed. These are indispensable work steps before installing/re-installing an injector.

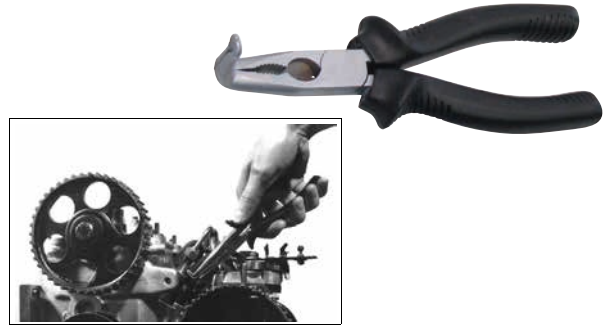
Technical Data:

Length:	100mm
Thread:	M7

KL-0192-23 Fuel Return Line Pliers

Ideal for use on Mercedes OM601, OM602, OM603 and VW Audi vehicles where the injection nozzles are located very deep in the cylinder head.

For removing fuel return lines from injector nozzles on Diesel engines.



KL-0489-10 Injector Nozzle Puller with Slide Hammer, Opel/Vauxhall

Applicable to Opel/Vauxhall Diesel engines, e.g. 2.2.

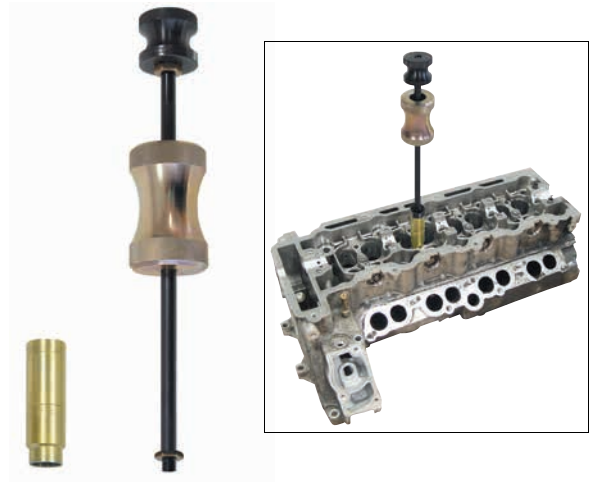
The injector nozzle puller KL-0489-10 enables the removal of tightly fitting injectors within just a few minutes.

Technical Data:

Slide Hammer Weight:	0.9kg
Connecting thread (injector nozzle):	M17x0.75
Length:	185mm

Scope of Delivery: KL-0489-10 Injector Nozzle Puller with Slide Hammer

Part No.	Description	Qty
KL-0049-100	Slide Hammer Puller Base Tool	1
KL-0489-1001	Adaptor, M10 to M17x0.75	1



KL-1683-103 Cleaning Tool for Injector Nozzle Seat

Applicable to Common Rail Diesel engines on Opel/Vauxhall, Fiat, Lancia, Suzuki 1.3 JTD, 1.3 CDTi, 1.3 JTD, 1.3 DDis / engine: Z13DT, 188A9.000.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injection nozzle to avoid leakage between cylinder head and injector nozzle.



Technical Data:

Drive:	T-handle
Length:	261mm
Cleaning tool Ø:	7.5/17/17.6mm

KL-0186-51 (German Utility Model) Cleaning Tool Set for Injector Nozzle Seat

Suitable for use on the Fiat 2.3 JTD, 2.8 JTD and 3.0 JTD Diesel engines with conical injector nozzle seat.

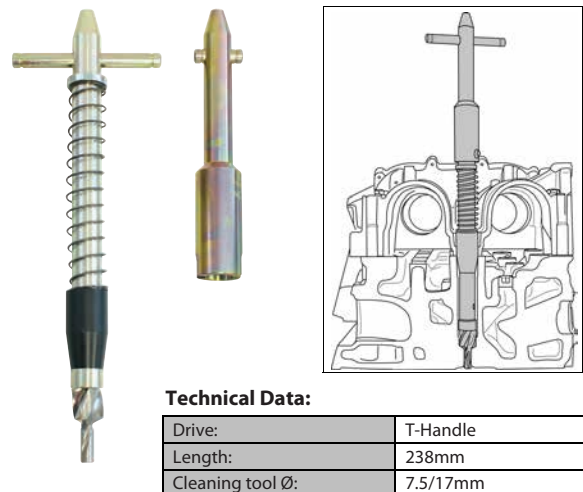
The cleaning tool enables the quick and professional cleaning of conical injector nozzle seats.

Indispensable working step before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle.

The spring-loaded centring cone sleeve ensures accurate guidance of the cleaning tool in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble.

Scope of Delivery: KL-0186-51 Cleaning Tool Set for Injector Nozzle Seat

Part No.	Description	Qty
KL-0186-511	Cleaning Tool for Injector Nozzle Seat	1
KL-0186-501	Extension	1



Technical Data:

Drive:	T-Handle
Length:	238mm
Cleaning tool Ø:	7.5/17mm



KL-0186-14 K

(German Utility Model)

Injector Nozzle Puller Set (Universal), with Accessories

For Description, please refer to Chapter 6.4-01.



KL-0186-130

Upgrade Kit for KL-0186-14 K (1.9, 2.3, 2.4, 3.0 JTD)

Applicable to Fiat Ducato, Citroën Relay/Jumper III, Peugeot Boxer III and Iveco 2.3; 2.4 and 3.0 JTD / HDI Common Rail Diesel engines (Engine Codes: F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE3481D, F1CE3481DM, F1CE3481E, F1CE3481N] also Euro 5), as well as Alfa Romeo 1.9 JTD (Engine code: 937A5.000).

The KL-0186-130 upgrade kit enables the injector nozzle puller set KL-0186-14 K also to be used on the above mentioned engines.

Scope of Delivery: KL-0186-130 Upgrade Kit (1.9, 2.3, 2.4, 3.0 JTD)

Part No.	Description	Qty
KL-0186-1232	Support Bolt Set, M8 (4-piece)	1
KL-0583-1032	Pull Spindle, M14x1.5, 200mm long	1
KL-0186-1261	Set of Spacer Nuts, 10mm (4-piece)	1



KL-0186-132

Upgrade Kit for KL-0186-14 K in conjunction with KL-0186-130

Applicable to the Fiat Ducato 3.0 JTD (Euro 5), Citroën Relay/Jumper III and Peugeot Boxer III 3.0 HDI (Euro 5) Common Rail Diesel engines. (Engine codes: F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N])

The KL-0186-132 upgrade kit is used in conjunction with the injector nozzle puller set KL-0186-14 K and upgrade kit KL-0186-130 to allow the removal of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without the need for dismantling the cylinder head.

The injector can be extracted in one piece quickly and easily using the special puller claw and the KL-0583-1032 pull spindle (supplied with KL-0186-130). The injector needs to be opened for this purpose.

Procedure: Unscrew injector top part, dismantle nozzle, screw in pull spindle, mount special puller claw, unscrew valve cover screws (4 screws) and replace with special support bolts, mount extraction bridge and screw on shoulder nut. Extract nozzle by turning the shoulder nut.

Scope of Delivery: KL-0186-132 Upgrade Kit for KL-0186-13 KA

Part No.	Description	Qty
KL-0186-1232 L	Set of Support Bolts M8, 180mm	1
KL-0186-1321	Special Injector Puller Claw	1
KL-0186-1322	Knurled Nut	1
KL-0186-1323	Hex Nut	1



KL-0186-1233

Set of Support Bolts, M6, 145mm

Applicable to VW-Audi, Seat, Škoda 2.0 TDI (CFFB) Common Rail Diesel engines and Opel/Vauxhall 2.0 CDTi, VCDi (Z 20 DM, Z 20 DMH, Z 20 S) Common Rail Diesel engines. Installed, for example, in: VW Golf VI (5K), Eos (1F), Sharan (7N), Passat V (3C), Passat VI (36), Jetta (16), Passat CC (35), Tiguan (5N); Audi A3 (8P), Q3 (8U); Seat Alhambra (71); Škoda Superb II (3T); Opel/Vauxhall Antara, Chevrolet Captiva, Nubria estate car and Lacetti etc.

The KL-0186-1233 support bolt set upgrades the injector nozzle puller set KL-0186-14 K by making it also suitable for use on the above mentioned engines.

KL-1683-10 K Injector Nozzle Puller Set, Fiat/Opel/Vauxhall/Suzuki

Suitable for use on Fiat, Opel/Vauxhall, Suzuki 1.3 Common Rail Diesel engines.
(engine code: A13DTE, Z13 DT, etc.)

This tool set enables the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle.

The removal of injector nozzles from this type of engines is particularly difficult due to the fact that always two injector nozzles are held by one retaining clip. This means, that when removing one of the injector nozzles, the second one needs to be pulled out at the same time.

The injector nozzles can quickly and easily be removed using the special extraction bridge and the two pull spindles.

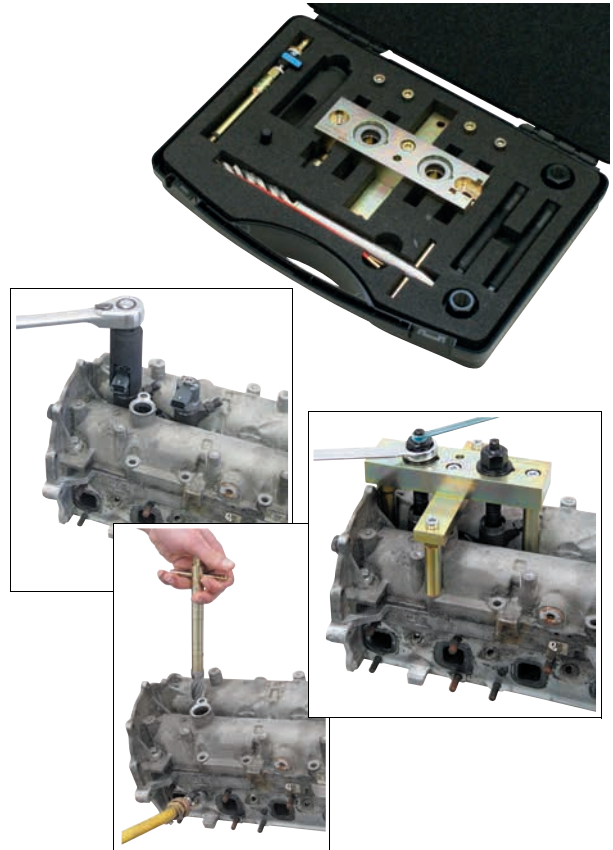
Procedure for the removal of the injector nozzles:

Unscrew injection nozzle heads with the special socket included in the set. Screw pull spindles into the injector nozzles, place pre-assembled extraction bridge onto the valve cover and screw on shoulder nuts. Pull out nozzles by evenly turning the shoulder nuts. By injecting compressed air into the combustion chamber impurities are prevented from entering the latter.

Scope of Delivery:

KL-1683-10 K Injector Nozzle Puller Set, Fiat/Opel/Vauxhall/Suzuki

Part No.	Description	Qty
KL-1683-105	Extraction Bridge with Spindle	1
KL-0369-4505 A	Special Bit Insert, Size (waf)10mm	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-1383-118	Compressed Air Adaptor for Glow Plug Bore M8x1	1
KL-1683-103	Cleaning Tool for Injector Nozzle Seat	1
KL-1683-1090	Plastic Storage Case	1



KL-0186-110 (Patented) Injector Nozzle Puller without Slide Hammer, for M14x1.5, VW / Fiat / IVECO

Applicable to Fiat 2.8 JTD Diesel engines; e.g. Ducato, IVECO Daily and VW 2.0 TDI Common Rail engines (first and second generation) e.g. Golf 6, Tiguan, Touran (engine code CFFB) etc.

This tool enables the professional removal of injection nozzles without having to open or dismantle them. The slide hammer **KL-0369-4100** (1.5kg) or **KL-0049-300** (4.8kg) is needed to operate the tool.

An indispensable tool when changing a timing chain or removing the valve cover/ replacing the valve cover seal.

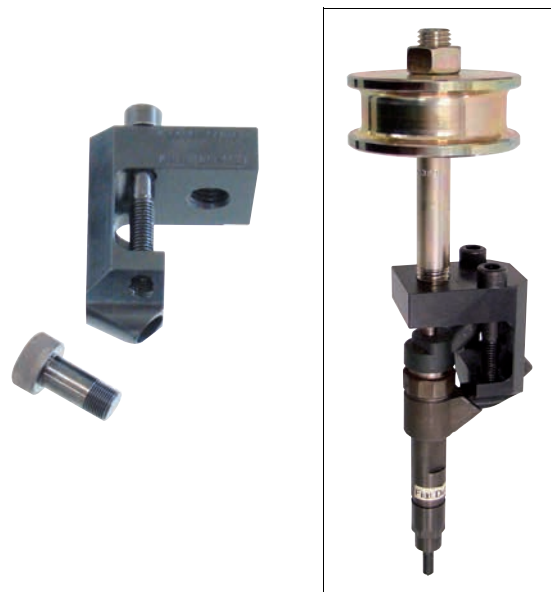
The injector nozzle puller is fixed to the high-pressure fuel supply line bore (M14x1.5) on the injector with a special screw. Thanks to its particular design, the puller allows for optimum power transmission without the risk of damaging the valve cover or the injector nozzle.

The stabilising screws enable the tool to be individually adjusted to the injector nozzle top part whilst, at the same time, ensuring the greatest possible stability of the injector nozzle puller.

Scope of Delivery:

KL-0186-110 Injector Nozzle Puller without Slide Hammer, for M14x1.5

Part No.	Description	Qty
KL-0186-1101	Injector Nozzle Puller Base Body for M14x1.5	1
KL-0186-1102	Special Screw, M14x1.5	1





KL-0186-14 K (German Utility Model) Injector Nozzle Puller Set (Universal), with Accessories

Universally applicable to Diesel engines with injector nozzle connection thread M14x1.5 (external thread) or M17x1 (internal thread); for example:

- Mercedes: OM611, OM612, OM613, OM628**, OM629**, OM639, OM640, OM642**, OM646, OM646 EVO, OM647, OM648
- Peugeot, Citroën, Fiat, Lancia, Suzuki: DV6* [16V])
- Ford: 1.6 TDCi (G8DA, G8DB, HHD, HJA, HHJB)
- VW-Audi: 2.5, 2.7 and 3.0 V6 Tdi
- Volvo: 1.6 D (D4164T), 2.2 D
- Mazda: Y6 (DV6* [16V])

*Note: Not suitable for Euro 5 [8V] engines.

**Note: V-engines might require the removal of the engine due to space constraints.

The injector nozzle puller **KL-0186-14 K** enables the removal of very tight-fitting/seized injector nozzles to be performed in situ on the vehicle without the need for dismantling the cylinder head.

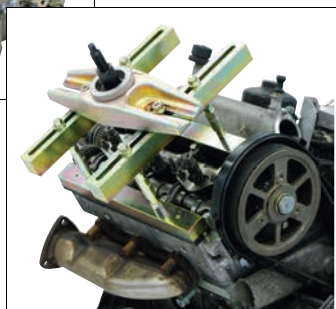
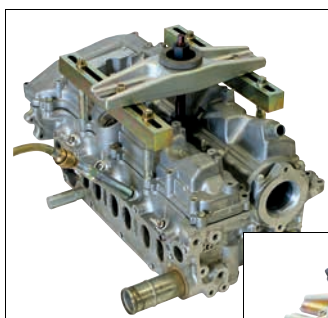
The special extraction bridge and pull spindle allow the user to extract the injector nozzle quickly and easily.

The extraction bridge is supported either by the support bolts that are screwed into the locating bores for the valve cover screws (M6) or by the support bars that are positioned on an even surface on the cylinder head. The spacer nuts allow the supporting surfaces to be levelled out, as well as the support bolts in bore holes with insufficient depth to be adjusted correctly.

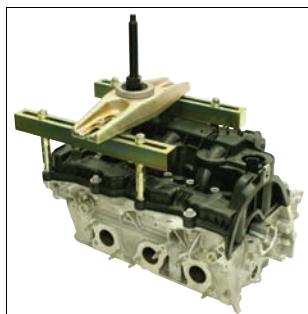
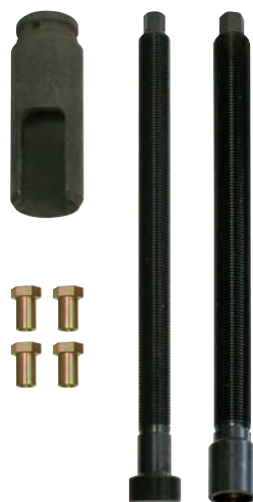
Note:

Thanks to the various upgrade kits, which are available separately as accessories, the injector nozzle puller is also suitable for use on many other Common Rail Diesel engines such as PSA 2.7 and 3.0 Hdi (DT17, DT20), Fiat Ducato and Iveco 2.3, 2.4 and 3.0 JTD, Mercedes CDI (OM651), Renault, Nissan, Opel/Vauxhall 2.2, 2.5 and 3.0 dci (G9T, G9U and ZD3), as well as Toyota 2.2 (2AD-FHV, 2AD-FTV).

For Scope of Delivery, see Page 6.4-01



6



KL-0186-150 A Upgrade Kit (PSA HDI) for KL-0186-14 K

Applicable to PSA 2.7 (DT17) and 3.0 (DT20) Hdi Diesel engines.

The **KL-0186-150 A** upgrade kit enables the injector nozzle puller set **KL-0186-14 K** also to be used on the above mentioned engines.

Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

Scope of Delivery:

KL-0186-150 A Upgrade Kit (PSA HDI) for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1254	Set of Spacer Nuts, 20mm	1
KL-1383-1113 H	Pull Spindle, M14x1.25, 240mm long	1
KL-1383-1021 H	Pull Spindle, M25x1, 240mm long	1
KL-1383-1022	Special Socket, Size (waf) 25mm, 1/2" drive	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



1 B - Combination Spanner UD-Profile



KL-1383-14 K

Injector Nozzle Puller Set, PSA 1.4, 1.6, 2.0 8V HDI

Applicable to Peugeot, Citroën and Fiat 1.4 8V (DV4 - Euro 4 and Euro 5), 1.6 8V (DV6 - Euro 5) and 2.0 8V HDI (DW10) Diesel engines. As installed in Citroën C1, C2, C3, C4, C5, C8, DS3, DS4, Berlingo, Evasion, Jumper, Jumper II, Jumpy, Xantia, Xsara; Peugeot 107, 206, 207, 306, 307, 308, 406, 508, 607, 806, 807, 1007, 3008, 5008, Boxer, Boxer II, Expert, Partner and Fiat Ducato, Scudo, Ulysse etc.

An indispensable tool set for the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle. The **KL-1383-14 K** injector nozzle puller set allows for the accurate extraction of very tight-fitting injector nozzles as well as for the professional cleaning of the injector nozzle bore and seal seat. The removal of the cylinder head is not necessary. The special pull spindle with union nut is specifically designed for use on the above mentioned vehicles to ensure safe and accurate support of the puller tools, even if injectors are very tight-fitting or seized in place. The use of the special pull spindle with additional union nut will facilitate the extraction of even the most stubborn injectors.

- The injector nozzle needs to be opened for this.

Procedure for Injector Nozzle Removal:

Unscrew injector nozzle top part by means of the special socket included in the set. Screw pull spindle into injector nozzle, and, if using the pull spindle with union nut, additionally screw union nut onto the injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly turning shoulder nut. Make sure that no impurities can enter the combustion chamber by injecting compressed air into the latter.

Scope of Delivery:

KL-1383-14 K Injector Nozzle Puller Set, PSA 1.4, 1.6, 2.0 8V HDI

Part No.	Description	Qty
KL-1383-140 K	Injector Nozzle Puller Set, PSA 1.4, 1.6, 2.0 8V HDI	1
KL-0186-50	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-118	Compressed Air Adaptor for Glow Plug Bore M8x1	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore M10x1	1

Scope of Delivery:

KL-1383-140 K Injector Nozzle Puller Set, PSA 1.4, 1.6, 2.0 8V HDI

Part No.	Description	Qty
KL-1383-1400	Base Tool	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-1383-1221	Pull Spindle, M27x1, 127mm long	1
KL-0369-4606 A	Pull Spindle, M17x1, 132mm long, with Union Nut	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4505 A	Special Bit Insert, (waf) 10mm	1
KL-0369-461 A	Special Socket, (waf) 29mm, 1/2" drive	1
KL-1383-1022	Special Socket, (waf) 25mm, 1/2" drive	1
KL-1383-1222 A	Special Socket, (waf) 27mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-1383-1490	Plastic Storage Case with Insert	1

Scope of Delivery:

KL-1383-1400 Base Tool

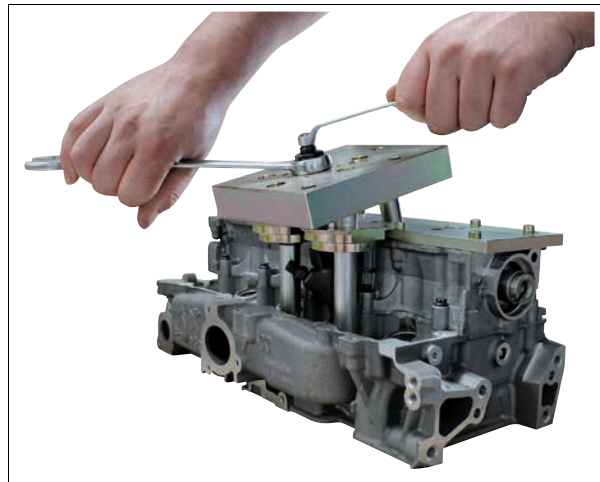
Part No.	Description	Qty
KL-1383-1401	Plate	1
KL-1383-1402	Base Plate (assembled)	1
KL-1383-1403	Socket Pin, Ø 20x120mm	2
KL-1383-1404	Support Bolt, DV4/DV6	1
KL-1383-1405	Support Bolt, DW10	2
KL-1383-1406	Support, DW10	1
KL-0055-0012	Cheese Head Screw, M6x25mm	8
KL-1283-1016	Cheese Head Screw, M8x30mm	2
KL-5501-3019	Cheese Head Screw, M10x25mm	1
KL-1383-1407	Support Disc	2



(Engine codes: DV4C, DV4TD, DV4TED, DV6C, DV6CTED, DV6DTEd, DW10ATED, DW10TD, DW10UTD, 8HR, 8HT, 8HX, 8HZ, 9HF, 9HL, 9HP, 9HR, RHS, RHV, RHY, RHZ)

Note:

Be sure to read and observe the injector nozzle manufacturer's instructions and specifications before starting to re-install an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.





KL-1383-30

Seal Ring Installation Tool DV6 (16V)

Applicable to PSA 1.6 16V (DV6) Diesel engines. For example, fitted to Peugeot: 1007, 2008, 206 CC, 207, 207 CC, 208, 3008, 301, 307, 308, 308 CC, 4008, 407, 5008, 508, Expert III, Partner I, Partner II, Partner III; Citroën: Berlingo, Berlingo II, Berlingo III, C2, C3 I, C3 II, C3 III, C3 Picasso, C4, C4 II, C4 Picasso, C4 Picasso II, C4 Grand Picasso, C4 Grand Picasso II, C4 Sedan, C4 Aircross, C5 II, C5 III, C-Elysee, Dispatch, Jumpy III, DS3, DS3 Convertible, DS4, DS5, Xsara Picasso; Fiat: Scudo; Volvo: C30, S40, S80, V50, V70; Ford: C-Max, Fiesta, Focus, Focus C-Max, Fusion; Mazda: 2, 3, 5 and Suzuki: SX4, SX4 Classic. (Engine codes: DV6, G8DA, G8DB, HHDA, HJA, HHJB, D4164T, Y6, 9HX.)

This tool allows the user to quickly and professionally press the shaft seal into the injector location hole. The guide cone included in the kit ensures that the shaft seal is press-fitted in a straight line.

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

KL-0186-230

Upgrade Kit to KL-0186-14 K

Applicable to Ford, Fiat, Citroën and Peugeot 2.2 Diesel engines. Installed, for example, in: Ford Transit (from 2006 onwards), Tourneo; Fiat Ducato (from 2006 to 2012), Citroën Relay/Jumper III and Peugeot Boxer III. (Engine codes: 4HM, 4HU, 4HV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

The KL-0186-230 upgrade kit enables the injector nozzle puller set KL-0186-14 K also to be used on the above mentioned engines.

Scope of Delivery: KL-0186-230 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1233	Set of Support Bolts, M6, 145mm	1
KL-1383-1022	Special Socket, Size (waf) 25mm, 1/2" drive	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-0186-2201	Special Insert	1
KL-0186-1611	Pull Spindle, M20x1, 145mm long	1



6

KL-1383-141 K

Injector Nozzle Puller Set, PSA 2.0 8V HDI

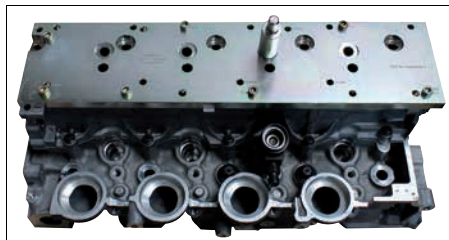
Applicable to Peugeot, Citroën and Fiat 2.0 8V HDI (DW10) Diesel engines; as installed in Citroën C4, C5, C8 Berlingo, Evasion, Jumper, Jumper II, Jumpy, Xantia, Xsara; Peugeot 206, 306, 307, 406, 607, 806, Boxer II, Expert, Partner and Fiat Ducato, Scudo, Ulysse etc. (Engine codes: DW10ATED, DW10TD, DW10UTD, RHS, RHZ, RHY, RHV)

An indispensable tool set for the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle. The KL-1383-141 K injector nozzle puller set allows for the accurate extraction of very tight-fitting/stuck injector nozzles. The removal of the cylinder head is not necessary. The special pull spindle with union nut is specifically designed for use on the above mentioned vehicles to ensure safe and accurate support of the puller tools, even if injectors are very tight-fitting or seized in place. The use of the special pull spindle with additional union nut will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this.

Note: Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

Scope of Delivery: KL-1383-141 K Injector Nozzle Puller Set, PSA 2.0 8V HDI

Part No.	Description	Qty
KL-1383-1400	Base Tool	1
KL-1383-1221	Pull Spindle, M27x1, 127mm long	1
KL-0369-4606 A	Pull Spindle, M17x1, 132mm long, with union nut	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4505 A	Special Bit Insert, (waf) 10mm	1
KL-0369-461 A	Special Socket, (waf) 29mm, 1/2" drive	1
KL-1383-1222 A	Special Socket, (waf) 27mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-1383-1490	Plastic Storage Case with Insert	1



Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. Screw pull spindle into injector nozzle, and, if using the pull spindle with union nut, additionally screw union nut onto the injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.

KL-1383-142 K

Injector Nozzle Puller Set, PSA 1.4 8V HDI

Applicable to Peugeot and Citroën 1.4 8V (DV4 - Euro 4 and Euro 5) Diesel engines; as installed in Citroën C1, C2, C3, DS3, Xsara, and Peugeot 107, 206, 207, 307 1007 etc. (Engine codes: DV4C, DV4TD, DV4TED, 8HR, 8HT, 8HX, 8HZ)

An indispensable tool set for the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle. The **KL-1383-142 K** injector nozzle puller set allows for the accurate extraction of very tight-fitting or stuck injector nozzles. The removal of the cylinder head is not necessary. The special pull spindle with union nut is specifically designed for use on the above mentioned vehicles to ensure safe and accurate support of the puller tools, even if injectors are very tight-fitting or seized in place. The use of the special pull spindle with additional union nut will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this.

Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. Screw pull spindle into injector nozzle, and, if using the pull spindle with union nut, additionally screw union nut onto the injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.

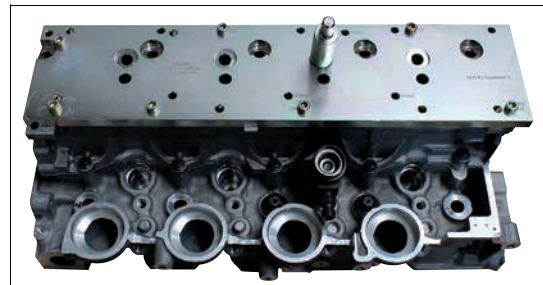
Scope of Delivery: KL-1383-142 K Injector Nozzle Puller Set, PSA 1.4 8V HDI

Part No.	Description	Qty
KL-1383-1400	Base Tool	1
KL-0369-4606 A	Pull Spindle, M17x1, 132mm long, with Union Nut	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4505 A	Special Bit Insert, (waf) 10mm	1
KL-0369-461 A	Special Socket, (waf) 29mm, 1/2" Drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-1383-1490	Plastic Storage Case with Insert	1



Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.



KL-1383-143 K

Injector Nozzle Puller Set, PSA 1.6 8V HDI

Applicable to Peugeot and Citroën 1.6 8V (DV6 - Euro 5) Diesel engines; as installed in Citroën C3, C4, C5, DS3, DS4, Berlingo, and Peugeot 207, 308, 508, 3008, 5008, Partner etc. (Engine codes: DV6C, DV6CTED, DV6DTED, 9HF, 9HL, 9HP, 9HR)

An indispensable tool set for the professional removal of very tight-fitting/seized injector nozzles without the need for removing the cylinder head from the vehicle. The **KL-1383-143 K** injector nozzle puller set allows for the accurate extraction of very tight-fitting or stuck injector nozzles. The removal of the cylinder head is not necessary. The special pull spindle with union nut is specifically designed for use on the above mentioned vehicles to ensure safe and accurate support of the puller tools, even if injectors are very tight-fitting or seized in place. The use of the special pull spindle with additional union nut will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this.

Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. Screw pull spindle into injector nozzle, and, if using the pull spindle with union nut, additionally screw union nut onto the injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.

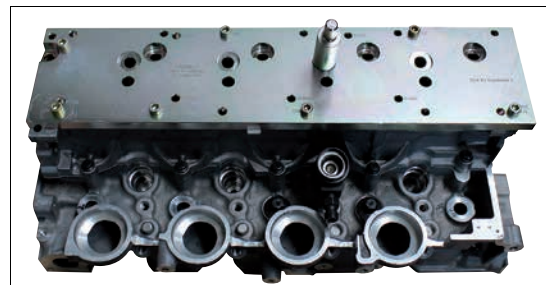
Scope of Delivery: KL-1383-143 K Injector Nozzle Puller Set, PSA 1.6 8V HDI

Part No.	Description	Qty
KL-1383-1400	Base Tool	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-0369-4606 A	Pull Spindle, M17x1, 132mm long, with Union Nut	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-0369-4505 A	Special Bit Insert, (waf) 10mm	1
KL-0369-461 A	Special Socket, (waf) 29mm, 1/2" Drive	1
KL-1383-1022	Special Socket, (waf) 25mm, 1/2" Drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0014-0030	Molybdenum Disulphide Paste	1
KL-1383-1490	Plastic Storage Case with Insert	1



Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.





KL-1383-11 KA

Injector Nozzle Puller Set, PSA 2.0 HDi + 2.2 HDi

Applicable to PSA 2.0 (110bhp, 135bhp) [DW10] and 2.2 [DW12] HDI TwinCam engines as found in Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot, Suzuki, Volvo etc.

This really useful tool set allows for the professional removal of very tight-fitting/stuck injector nozzles, without the need for dismantling the cylinder head.

The **KL-1383-11 KA** injector nozzle puller set is designed for the accurate extraction of very tight-fitting injector nozzles, as well as for the cleaning of the injector nozzle bore and seal seat.

The removal of the cylinder head is not necessary.

The extraction bridge is specifically designed for the above mentioned vehicles in order to ensure safe and accurate support of the puller tools, even if injectors are stuck or seized in place.

The special pull spindle with additional union nut (to be used on DW10 engines) will facilitate the extraction of even the most stubborn injectors.

The injector nozzle needs to be opened for this. (engines: DW10)

Note: Be sure to read and observe the injector nozzle manufacturer's directions and specifications before attempting to re-install an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. (DW10): Screw pull spindle into injector, and, if using the pull spindle with union nut, additionally screw union nut onto injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly turning shoulder nut. Inject compressed air into the combustion chamber in order to prevent impurities from entering the latter.

Scope of Delivery:

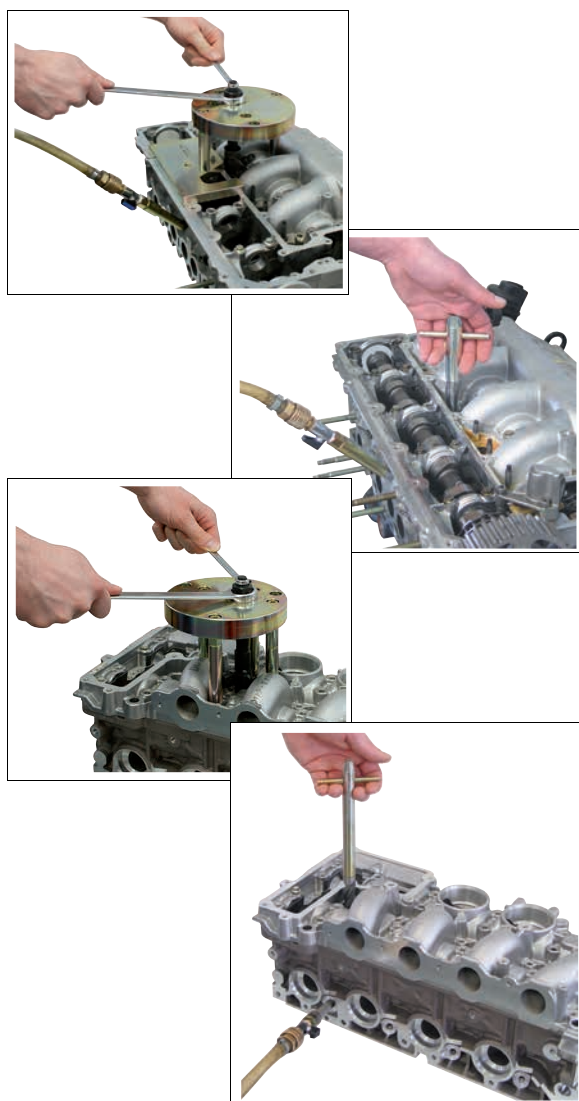
KL-1383-11 KA Injector Nozzle Puller Set, PSA 2.0 HDi + 2.2 HDi

Part No.	Description	Qty
KL-1383-118	Compressed Air Adaptor for Glow Plug Bore M8x1	1
KL-1383-119	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-104	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore M10x1	1
KL-1383-110 KA	Injector Nozzle Puller Set, Peugeot/Citroën 2.0 HDi + 2.2 HDi	1
KL-1383-1119	Plastic Storage Case	1

Scope of Delivery:

KL-1383-110 KA Injector Nozzle Puller Set, Peugeot/Citroën 2.0 HDi + 2.2 HDi

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm long	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	2
KL-1383-1115	Support Bolt, Ø 8.9mm	2
KL-1383-1116	Support Bolt, Ø 16x89.5mm	1
KL-1383-1131	Brace Support Bolt, Ø 16x73.5mm	2
KL-1383-1001	Supporting Plate	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-1383-1022	Special Socket, size (waf) 25mm, 1/2" drive	1
KL-0369-4505 A	Special Bit Insert, size (waf) 10mm	1
KL-0369-4606 A	Pull Spindle, M17x1, with Union Nut M27x1	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" drive	1
KL-1283-1016	Cheese Head Screw, M8x30mm	4
KL-0014-0030	Molybdenum Disulphide Paste 50g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-1119	Plastic Storage Case	1



KL-1383-113 KA

Injector Nozzle Puller Set, PSA 2.0 HDI

Applicable to PSA 2.0 (110bhp, 135bhp) [DW10] TwinCam engines such as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

This indispensable tool set allows for the professional removal of very tight-fitting injector nozzles, without the need for dismantling the cylinder head. The injector nozzle puller **KL-1383-113 KA** enables accurate extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle bore and seal seat. The removal of the cylinder head is not necessary. The special design of the extraction bridge ensures safe and accurate support of the puller tools, even if injectors are severely stuck or seized in place. The special pull spindle with additional union nut (to be used on DW10 engines) will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this. (engines: DW10)

Scope of Delivery: KL-1383-113 KA Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	1
KL-1383-1131	Brace Support Bolt, Ø 16x73.5mm	2
KL-1383-1001	Support Plate	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-1383-1022	Special Socket, waf 25mm; 1/2" Drive	1
KL-1383-104	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-4606 A	Pull Spindle, M17x1, with Nut, M27x1, 132mm long	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" Drive	1
KL-0369-55 B	Compressed Air Adaptor for Glow Plug Bore	1
KL-1283-1016	Cheese Head Screw, M8x30mm	3
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-1383-1119	Plastic Storage Case	1



Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. (DW10): Screw pull spindle into injector, and, if using the pull spindle with union nut, additionally screw union nut onto injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut. Impurities can be prevented from entering the combustion chamber by injecting compressed air into the latter.

KL-1383-114 KA

Injector Nozzle Puller Set, PSA 2.0 HDI

Applicable to PSA 2.0 (110bhp, 135bhp) [DW10] TwinCam engines such as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

This indispensable tool set allows for the professional removal of very tight-fitting injector nozzles, without the need for dismantling the cylinder head. The injector nozzle puller **KL-1383-114 KA** enables accurate extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle bore and seal seat. The removal of the cylinder head is not necessary. The special design of the extraction bridge ensures safe and accurate support of the puller tools, even if injectors are severely stuck or seized in place. The special pull spindle with additional union nut (to be used on DW10 engines) will facilitate the extraction of even the most stubborn injectors. The injector nozzle needs to be opened for this. (engines: DW10)

Scope of Delivery: KL-1383-114 KA Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	1
KL-1383-1131	Brace Support Bolt, Ø 16x73.5mm	2
KL-1383-1001	Support Plate	1
KL-1383-1021	Pull Spindle, M25x1, 132mm long	1
KL-1383-1022	Special Socket, waf 25mm; 1/2" Drive	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-4606 A	Pull Spindle, M17x1, with Nut, M27x1, 132mm long	1
KL-0369-461 A	Special Socket, Size (waf) 29mm, 1/2" Drive	1
KL-1283-1016	Cheese Head Screw, M8x30mm	3
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-1119	Plastic Storage Case	1



Note:

Be sure to read and observe the injector nozzle manufacturer's directions and specifications before re-installing an injector nozzle that had been opened. If necessary, have the injector nozzle tested and checked by an authorized workshop.

Procedure for Injector Nozzle Removal:

Unscrew injector nozzle head by means of the special socket included in the set. (DW10): Screw pull spindle into injector, and, if using the pull spindle with union nut, additionally screw union nut onto injector nozzle. Place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.



KL-1383-12

Injector Nozzle Puller with Slide Hammer (4.8 kg), PSA 2.0

Applicable to PSA 2.0 (90bhp) [DW10 TD] HDI single-camshaft engines as installed in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

This tool is designed for the removal of tightly fitting injection nozzles.

Scope of Delivery:

KL-1383-12 Injector Nozzle Puller with Slide Hammer (4.8 kg), PSA 2.0

Part No.	Description	Qty
KL-1383-121	Pull Spindle Set, M17x1 [for Bosch injector nozzles]	1
KL-1383-122	Pull Spindle Set, M27x1 [for Siemens injector nozzles]	1
KL-0369-411	Injector Nozzle Puller with 4.8kg Slide Hammer (without Pull Spindle)	1



Technical Data:

Drive:	T-Handle
Length:	261mm
Cleaning tool Ø:	7.5/17mm

KL-1383-104

Cleaning Tool for Injector Nozzle Seat, Peugeot/Citroën/Fiat/Lancia/Suzuki

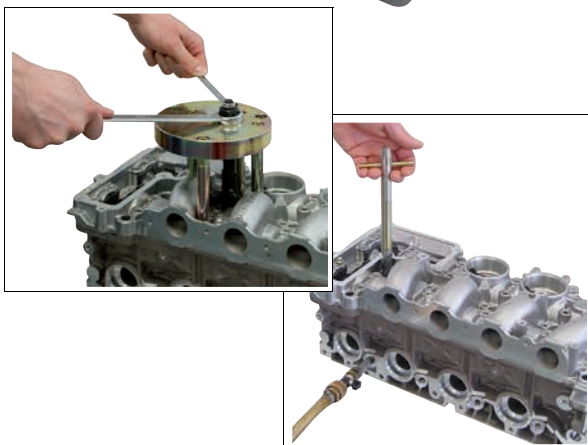
Applicable to 2.0 HDI, 2.0 JTD Common Rail Diesel engines on Peugeot, Citroën, Fiat, Lancia, Suzuki; engine code: DW10

- Mercedes; engine code: OM646 EVO
- Renault, Nissan, Vauxhall/Opel 2.2 DTI, CDTI, CDI; engine code: G9T
- Renault, Nissan, Vauxhall/Opel 2.5 DTI, CDTI, CDI; engine code: G9U

The special design of this cleaning tool enables the injection nozzle bore, the seal seat and the injector channel to be cleaned in one single operation.

Important! Before any re-installation/installation of an injector, it is essential to clean the seal seat in the cylinder head from deposits such as carbon deposits in order to prevent leakage between cylinder head and injector.

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KL-1383-111 K

Injector Nozzle Puller Set, PSA 2.2 HDI

Applicable to PSA 2.2 [DW12] HDI TwinCam engines such as Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.

Indispensable for the professional removal of very tight-fitting/stuck injector nozzles without removal of the cylinder head from the vehicle. The injector nozzle puller **KL-1383-111 K** enables the accurate extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle bore and injector seal seat. The removal of the cylinder head is not necessary. The special design of the extraction bridge ensures safe and accurate support, even if the injector nozzles are extremely tight-fitting or seized in place.

Procedure of injector nozzle removal:

Screw pull spindle onto the injector nozzle, place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut. Impurities can be prevented from entering the combustion chamber by injecting compressed air into the latter.

Scope of Delivery: KL-1383-111 K Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm long	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	2
KL-1383-1115	Support Bolt, Ø 8.9mm	2
KL-1383-1116	Support Bolt, Ø 16x89.5mm	1
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore	1
KL-1383-119	Cleaning Tool for Injector Nozzle Seat	1
KL-1283-1016	Cheese Head Screw, M8x30	4
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-1383-1119	Plastic Storage Case	1

KL-1383-112 K

Injector Nozzle Puller Set Peugeot / Citroën 2.2 HDi

Applicable to PSA 2.2 [DW12] HDI TwinCam engines such as Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.

Allows for the professional removal of very tight-fitting injector nozzles without removing the cylinder head from the vehicle.

The injector nozzle puller **KL-1383-112 K** enables the accurate extraction of very tight-fitting injector nozzles. Removal of the cylinder head is not necessary.

The special design of the extraction bridge ensures safe and accurate support, even if the injector nozzles are extremely tight-fitting/seized in place.

Procedure of the injector nozzle removal:

Screw pull spindle onto the injector nozzle, place pre-assembled base tool onto cylinder head and screw on shoulder nut. Extract injector nozzle by evenly rotating shoulder nut.

Scope of Delivery:

KL-1383-112 K Injector Nozzle Puller Set Peugeot / Citroën 2.2 HDi

Part No.	Description	Qty
KL-1383-1111	Base Plate with Axial Bearing	1
KL-1383-1112	Shoulder Nut, M16x1.5	1
KL-1383-1113	Pull Spindle, M14x1.5, 132mm long	1
KL-1383-1114	Centring Bolt, Ø 6.8mm	2
KL-1383-1115	Support Bolt, Ø 8.9mm	2
KL-1383-1116	Support Bolt, Ø 16x89.5mm	1
KL-1283-1016	Cheese Head Screw, M8x30	4
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-1383-1119	Plastic Storage Case	1



KL-1383-119

Cleaning Tool for Injector Nozzle Seat, Peugeot/Citroën/Fiat/Lancia

Applicable to the 2.2 HDi, 2.2 JTD Common Rail Diesel engines DW12 on Peugeot, Citroën, Fiat, Lancia.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injector nozzle to avoid leakage between cylinder head and injector nozzle.



Technical Data:

Drive:	T-handle
Length:	275mm
Cleaning tool Ø:	7.5/17/19.6mm

KL-1383-1311

Cleaning Tool for Injector Nozzle Seat, PSA 1.6

Applicable to 1.6 PSA Common Rail Diesel engines on

- Fiat 1.6 HDI; engine code: DV6, 9HX, 9HY, 9HZ
- Ford 1.6 TDCi; engine code: G8DA, G8DB, HHDA, HHJA, HHJB
- Volvo 1.6 D; engine code: D4164T
- Mazda 1.6 D; engine code: Y6

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injector nozzle to avoid leakage between cylinder head and injector nozzle.



Technical Data:

Drive:	T-handle
Length:	295mm
Cleaning tool-Ø:	7.5/17/17.6/18.7mm



KL-1383-131 K

Cleaning Tool for Injector Nozzle Seat, with Compressed Air Adaptor, PSA/Ford/Volvo/Mazda

Applicable to:

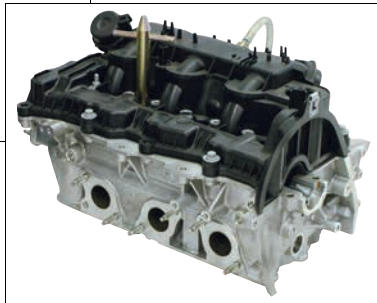
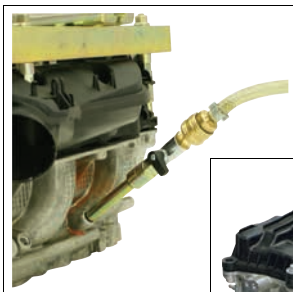
- PSA, Fiat 1.6 16V HDI engines: DV6, 9HX, 9HY, 9HZ
- Ford 1.6 16V TDCi engines: G8DA, G8DB, HHDA, HHJA, HHJB
- Volvo 1.6 16V D engines: D4164T
- Mazda 1.6 16V D engines: Y6

The special design of the cleaning tool **KL-1383-1311** allows the injector nozzle mounting hole, the nozzle seal seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation. Impurities can be prevented from entering the combustion chamber by screwing the compressed air adaptor **KL-1383-118** into the glow plug bore hole and injecting air into the combustion chamber.

Scope of Delivery:

KL-1383-131 K Cleaning Tool for Injector Nozzle Seat

Part No.	Description	Qty
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore	1
KL-1383-1311	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-1329	Plastic Storage Case	1



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KL-1383-132 K

Cleaning Tool Set for Injector Nozzle Seat, with Compressed Air Adaptor, Mercedes/PSA

Applicable to: Mercedes: OM639, OM640, OM642, OM651; PSA: 2.7 HDI engine: DT17, 3.0 HDI engine: DT20.

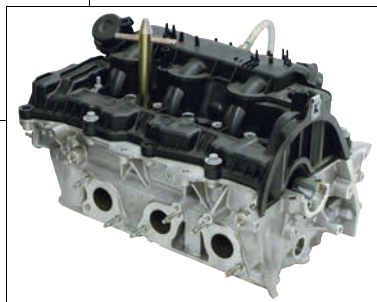
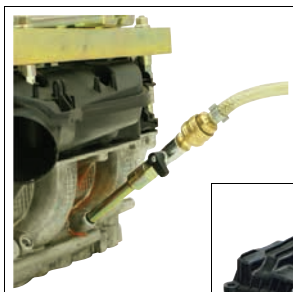
The special design of the cleaning tool **KL-0369-20 A** allows the injector nozzle mounting hole, the nozzle seal seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation.

Impurities can be prevented from entering the combustion chamber by screwing the compressed air adaptor **KL-1383-118** into the glow plug bore hole and injecting air into the combustion chamber.

Scope of Delivery:

KL-1383-132 K Cleaning Tool Set for Injector Nozzle Seat

Part No.	Description	Qty
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore M8x1	1
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-1329	Plastic Storage Case	1



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



1 B - Combination Spanner UD-Profile



KL-1683-30 K

Injector Clamp Screw Drill-Out Tool Kit, Citroën, Peugeot, Fiat, Iveco 2.3, 3.0 HDI/JTD/HPI

Suitable for use on Citroën and Peugeot 3.0 HDI, as well as Fiat and Iveco 2.3, 3.0 JTD/HPI Common Rail Diesel engines; for example, as fitted to: Citroën Relay/Jumper III; Peugeot Boxer III; Fiat Ducato and Iveco Daily. (Engine codes: F1AE0481A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481F, F1CE0481H, F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE 0481D, F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N])

The **KL-1683-30 K** injector clamp screw drill-out tool kit enables the accurate removal respectively drilling out of torn-off screws that hold the injector clamp in place, as well as re-cutting the original M8x1.25 thread.

It also allows the user to repair a damaged M8x1.25 injector clamp screw retaining thread by drilling it up to M10x1.25. Then, the new injector clamp screw along with a threaded sleeve (M10x1.25 to M8x1.25) can be screwed into the cylinder head.



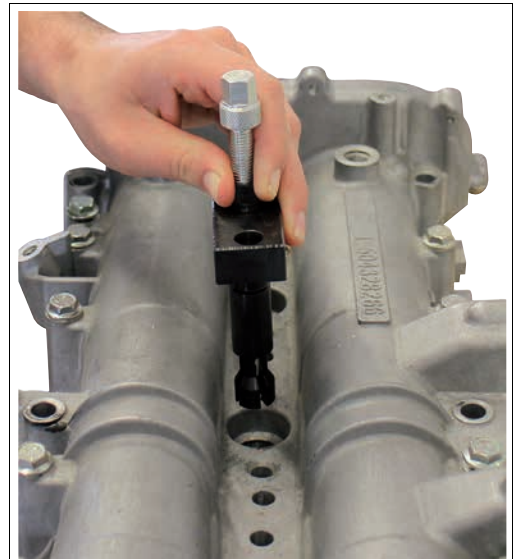
Technical Data:

For clamp screw thread:	M8x1.25
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Scope of Delivery:

KL-1683-30 K Injector Clamp Screw Drill-Out Tool Kit

Part No.	Description	Qty
KL-1683-300	Base Tool	1
KL-1683-3011	Drill Sleeve, Ø 6.8mm	1
KL-1683-3012	Pilot Drill, Ø 6.8mm	1
KL-1683-3021	Drill Sleeve, Ø 10.1mm	1
KL-1683-3022	Re-Bore Drill, Ø 10.1mm	1
KL-1683-3032	Screw Tap, M8	1
KL-1683-3041	Drill Sleeve, Ø 9.1mm	1
KL-1683-3042	Pilot Drill, Ø 9.1mm	1
KL-1683-3052	Screw Tap, M10x1.25	1
KL-1683-3053	Set of Threaded Sleeves, M8	1
KL-0181-53	Stud Remover/Installer, 8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1683-3090	Plastic Storage Case	1



KL-1683-300

Base Tool

Suitable for use on Citroën and Peugeot 3.0 HDI, as well as Fiat and Iveco 2.3, 3.0 JTD/HPI Common Rail Diesel engines; for example, as fitted to Citroën Relay/Jumper III; Peugeot Boxer III; Fiat Ducato and Iveco Daily. (Engine codes: F1AE0481A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481F, F1CE0481H, F1CE3481E, F1CE3481M, F1CE3481N, F30DTE [F1CE 0481D, F1CE 3481D, F1CE 3481DM, F1CE 3481E, F1CE 3481N])

Scope of Delivery:

KL-1683-300 Base Tool

Part No.	Description	Qty
KL-1683-3003	Knurled Screw	1
KL-1683-3001	Setting Gauge for Drill	1
KL-1683-3002	Collet Chuck	1
KL-0117-2105	Set Screw, M5x6	2





KL-1283-13 K

Injector Nozzle Puller Set,

Renault/Dacia/Nissan/Opel/Vauxhall/Suzuki

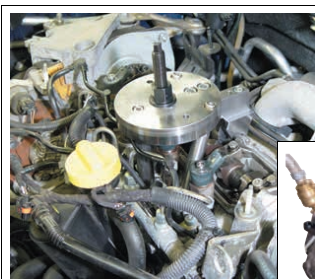
Suitable for 1.5 dCi (engine code: K9K) and 1.9 dCi (engine code: F9Q) Common Rail Diesel engines. As found in Renault, Dacia, Nissan, Opel/Vauxhall, Suzuki, etc.

This puller set enables the professional extraction of very tight-fitting injector nozzles as well as the cleaning of the injector nozzle bore hole and seal seat, without having to remove the cylinder head from the vehicle. The extraction bridge is specifically designed for the above mentioned vehicles in order to ensure safe and accurate support of the tool, even if injectors are very tight-fitting or seized in place. Alternatively, the **KL-0040-170** hydraulic cylinder (17t) in conjunction with a special pull spindle and a hydraulic pump such as **KL-0215-35 M25** can be used instead of the mechanical drive. The injector nozzle puller set **KL-1283-11 K** (1.9 dCi; F9Q) and of injector nozzle puller set **KL-1283-12 K** (1.5 dCi; K9K).

Scope of Delivery: KL-1283-13 K Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1283-115	Extraction Bridge with Spindle, 1.9 dCi	1
KL-1283-112	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-55 B	Compressed Air Adaptor for M10x1 Glow Plug Bore	1
KL-1283-103	Special Socket, Size (waf) 30mm, 1/2" drive	1
KL-1283-1211	Support Plate	1
KL-1283-1212	Support Bolt with Pin	1
KL-1283-1213	Shaped Piece	1
KL-1383-1113	Pull Spindle M14x1.5, 132mm long	1
KL-1283-122	Cleaning Tool for Injector Nozzle Seat	1
KL-0014-0030	Molybdenum Disulphide Paste, 50g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1283-1290	Plastic Storage Case	1

6



KL-1283-11 K

Injector Nozzle Puller Set, 1.9 dCi

Suitable for 1.9 dCi engines (engine code: F9Q) e.g. in Renault, Nissan, Opel/Vauxhall, Suzuki, etc.

For the professional removal of very tight-fitting injection nozzles without the need for dismantling the cylinder head.

The **KL-1283-11 K** injector nozzle puller set allows for the precise extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle mounting bore and seat.

It is not necessary to remove the cylinder head from the vehicle.

The special shape of the extraction bridge ensures safe and precise support of the tool even if the injector nozzles are extremely stuck/tight-fitting.

Injector nozzle removal:

Unscrew injector nozzle top part with the special socket included in the set. Screw pull spindle into injector nozzle, place pre-assembled base tool onto the cylinder head and screw on shoulder nut. Pull out nozzle by turning the shoulder nut. The supply of compressed air into the combustion chamber prevents impurities from entering the latter.

Scope of Delivery: KL-1283-11 K Injector Nozzle Puller Set, 1.9 dCi

Part No.	Description	Qty
KL-1283-115	Extraction Bridge with Spindle, 1.9 dCi	1
KL-1283-112	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-0369-55 B	Compressed Air adaptor for M10x1 Glow Plug Bore	1
KL-1283-103	Special Socket, Size (waf) 30mm, 1/2" drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1283-1190	Plastic Storage Case	1

KL-1283-110 K Injector Nozzle Puller Set, Renault 1.9 dCi

Suitable for 1.9 dCi engines (engine code: F9Q) as found in Renault, Nissan, Opel/Vauxhall, Suzuki, etc.

An indispensable tool set for the professional removal of very tight-fitting injector nozzles without the need for dismantling the cylinder head.

The **KL-1283-110 K** injector nozzle puller allows for the precise extraction of very tight-fitting injector nozzles. It is not necessary to remove the cylinder head from the vehicle using this tool.

The extraction bridge is specifically designed for the above mentioned vehicles in order to ensure safe and accurate support of the tool, even if injectors are very tight-fitting or seized in place.

Procedure for injector nozzle removal:

Unscrew injector nozzle top part with the special socket included in the set. Screw pull spindle into injector nozzle, place pre-assembled base tool onto cylinder head and screw on shoulder nut. Pull out nozzle by evenly turning the shoulder nut.

Scope of Delivery:

KL-1283-110 K Injector Nozzle Puller Set, Renault 1.9 dCi

Part No.	Description	Qty
KL-1283-115	Extraction Bridge with Spindle, 1.9 dCi	1
KL-0369-4505 A	Special Bit Insert, Size (waf) 10mm	1
KL-1283-103	Special Socket, Size (waf) 30mm, 1/2" Drive	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1283-1190	Plastic Storage Case	1



KL-1283-12 K Injector Nozzle Puller Set, Renault/Dacia/Nissan/Opel/Vauxhall/Suzuki

Suitable for 1.5 dCi (engine code: K9K) Common Rail-Diesel engines.

As found in Renault, Dacia, Nissan, Opel/Vauxhall, Suzuki, etc.

For the professional removal of very tight-fitting injector nozzles without the need for dismantling the cylinder head.

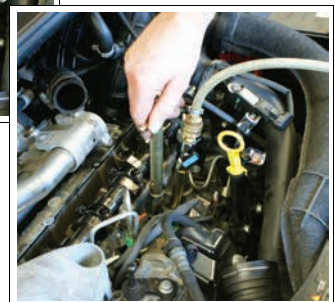
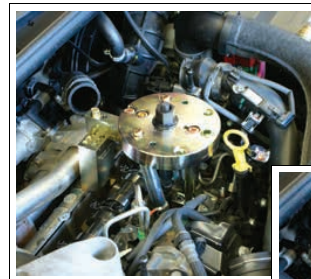
The **KL-1283-12 K** injector nozzle puller set allows for the precise extraction of very tight-fitting injector nozzles as well as cleaning the injector nozzle mounting bore and seal seat.

Removal of the cylinder head from the vehicle is not necessary. The special design of the extraction bridge ensures safe and accurate support, even if the injector nozzles are extremely tight-fitting or seized in place.

Scope of Delivery:

KL-1283-12 K Injector Nozzle Puller Set

Part No.	Description	Qty
KL-1283-125	Extraction Bridge with Spindle, 1.5 dCi	1
KL-1283-122	Cleaning Tool for Injector Nozzle Seat	1
KL-0369-55 B	Compressed Air Adaptor for M10x1 Glow Plug Bore	1
KL-0014-0030	Molybdenum Disulphide Paste, 50 g	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1283-1290	Plastic Storage Case	1





KL-0186-14 K

(German Utility Model)

Injector Nozzle Puller Set (Universal), with Accessories

For description, please refer to Chapter 6.4-01.

KL-0186-220

Upgrade Kit for KL-0186-14 K

Suitable for the Opel/Vauxhall, Saab and Fiat 1.3*, 1.6, 1.7 and 2.0 Common Rail Diesel engines, as found in Opel/Vauxhall (1.3*, 1.6, 1.7 and 2.0 engines) Agila, Insignia, Combo, Corsa C, Corsa D, Meriva A, Mokka, Astra H, Astra J, Meriva B, Zafira A, Zafira B, Tigra B; Fiat (1.3* and 1.6 engines) Punto (188), Idea (135), Doblo (223), Linea (110), Bravo (198), Doblo (263); Saab (2.0 Motor) 9-5 (9650).

The KL-0186-220 tool kit is designed to upgrade the KL-0186-14 K injector nozzle puller so that it also covers the above mentioned engines.

Scope of Delivery:

KL-0186-220 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1232	Set of Support Bolts, M8, 120mm	1
KL-0186-1238	Set of Support Bolts, M6, 145mm	1
KL-0186-1239	Set of Support Bolts, M7, 132.5mm	1
KL-0186-1261	Set of Spacer Nuts, 10mm	1
KL-1383-1222 A	Special Socket, Size (waf) 29mm	1
KL-0186-2201	Special Insert	1
KL-0186-1611	Pull Spindle, M20x1mm, 145mm long	1

(Engine codes: Opel/Vauxhall: Z13DT*, Z13DTH*, Z13DTC*, Z13DTJ*, A13DTE, A16FDH, A16FDL, A17DT, A17DTC, A17DTJ, A17DTR, A20DT, A20DTC, A20DTH, A20DTJ, A20DTR; Fiat: 188A9.000*, 198A3.000; Saab: A20DTH, A20DTR)

*Note: With 1.3 litre engines, always two injector nozzles need to be extracted simultaneously. (see KL-1683-10 K)

6

KL-0186-210

Upgrade Kit for KL-0186-14 K

Renault / Nissan / Opel/Vauxhall 2.0, 2.2, 2.5, 3.0 dCi

Applicable to the following Diesel engines: Renault / Nissan / Opel/Vauxhall 2.0 dCi (engine code M9R), 2.2 dCi (engine code G9T), 2.5 dCi (engine code G9U) and 3.0 dCi (engine code P9X*, ZD3).

The KL-0186-210 tool kit is designed to upgrade the KL-0186-14 K injector nozzle puller set so that it also covers the above mentioned engines.

Scope of Delivery:

KL-0186-210 Upgrade Kit for KL-0186-14 K (to form KL-0186-21 K)

Part No.	Description	Qty
KL-0186-1234	Set of Support Bolts, M6, 113.5mm and 153.5mm	1
KL-0186-1236	Set of Support Bolts, M6	1
KL-0186-1235-2	Set Screw, M6x25mm	4
KL-0186-1255	Spacer Nut, M8	4
KL-0583-1032	Pull Spindle, M14x1.5, 200mm	1
KL-0186-1611 H	Pull Spindle, M20x1, 250mm	1

*Note: V-engines might require the removal of the engine due to lack of space.

KL-0186-190

Upgrade Kit for KL-0186-14 K, Renault/Nissan/Opel/Vauxhall

Applicable to Renault, Nissan, Opel/Vauxhall 3.0 Common Rail Diesel engines (engine code: ZD3); e.g. fitted to Renault: Master (II and III), Master Maxi; Nissan: Cabstar (III), Interstar, Patrol (III), Patrol GR (II), Terano and Opel/Vauxhall: Movano (II).

As well as for Renault 3.0 V6 Common Rail Diesel engines (engine code P9X*) e.g. fitted to Renault: Espace (IV), Vel Satis.

***Note:** V-engines might require the removal of the engine due to space constraints.

The **KL-0186-190** tool kit is designed to upgrade the **KL-0186-14 K** injector nozzle puller set so that it also covers the above mentioned engines.

Scope of Delivery:

KL-0186-190 Upgrade Kit for KL-0186-14 K (to form KL-0186-19 K)

Part No.	Description	Qty
KL-0186-1238	Set of Support Bolts, M6	1
KL-0186-1255	Spacer Nut, M8	4
KL-0186-1611 H	Pull Spindle, M20x1, 250mm	1



KL-0186-200

Upgrade Kit for KL-0186-14 K, Renault/Nissan/Opel/Vauxhall

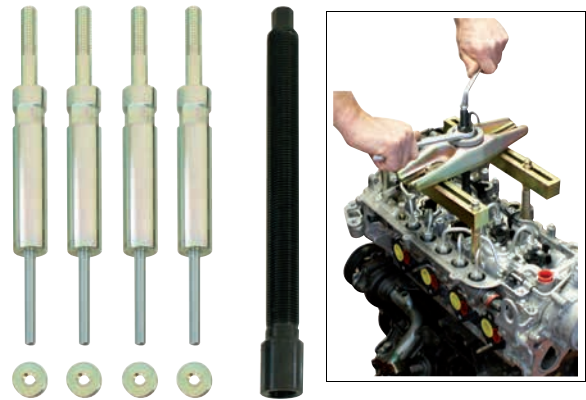
Applicable to Renault, Nissan and Opel/Vauxhall 2.0 dci Diesel engines (engine code M9R). Injector nozzles with fuel line connection at the top.

The **KL-0186-200** tool kit is designed to upgrade the **KL-0186-14 K** injector nozzle puller set so that it also covers the above mentioned engines.

Scope of Delivery:

KL-0186-200 Upgrade Kit for KL-0186-14 K (to form KL-0186-20 K)

Part No.	Description	Qty
KL-0186-1236	Set of Support Bolts, M6	1
KL-0583-1032	Pull Spindle, 200mm long	1



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KL-0186-202

Upgrade Kit for KL-0186-14 K (in conjunction with KL-0186-200)

Suitable for Renault, Nissan and Opel/Vauxhall 2.0 CDTi (M9R) Common Rail Diesel engines as found, e.g., in: Renault Espace/Grand Espace IV, Koleos, Laguna II, Laguna III, Latitude, Megane II, Megane III, Scenic/Grand Scenic II, Scenic/Grand Scenic III, Trafic II, Vel Satis; Nissan Primastar, Qashqai I, Qashqai II, X-Trail and Opel/Vauxhall Vivaro-A.

The **KL-0186-202** upgrade kit is used in conjunction with the **KL-0186-14 K** injector nozzle puller set as well as upgrade kit **KL-0186-200**, thus allowing the removal of very tight-fitting/stuck injectors to be performed in situ on the vehicle without the need for removing the cylinder head. The injector can be extracted in one piece quickly and with ease using the special puller claw and the **KL-0583-1032** pull spindle (supplied with **KL-0186-200**). The injector nozzle needs to be opened for this.

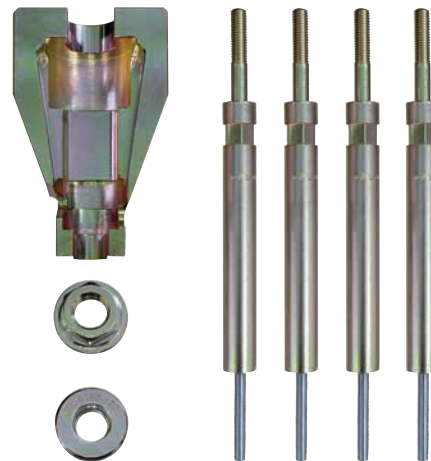
Procedure:

Screw pull spindle onto injector nozzle, mount special puller claw. Unscrew valve cover screws (4 screws) and replace with special support bolts. Mount extraction bridge and screw on shoulder nut. Extract injector nozzle by turning shoulder nut.

KL-0186-202 H Upgrade Kit with Hydraulic Cylinder (17t, short design) for KL-0186-14 K, in conjunction with KL-0186-200.

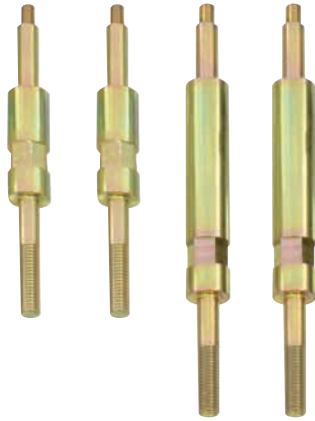
Like the **KL-0186-202**, however, supplied with:

KL-0040-170 A Hydraulic Cylinder, 17t (short design), with Shoulder Nut M16x1.5 and Safety Belt and **KL-0583-1032 H** Pull Spindle, M14x1.5x315mm.



Scope of Delivery: KL-0186-202 Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0186-1236 L	Set of Support Bolts, M6, 170mm	1
KL-0186-2021	Puller Claw	1
KL-0186-1323	Hex Nut	1
KL-0186-1322	Knurled Nut	1



KL-0186-1234

Set of Support Bolts, M6 (113.5mm and 153.5mm)

Applicable to Renault, Nissan, Opel/Vauxhall 2.2 and 2.5 dCi Diesel engines (engine code: G9T and G9U) e.g. Renault: Avantime, Espace III, Espace IV, Laguna II, Master II, Master III, Traffic II, Vel Satis; Nissan: Interstar, Primastar and Vauxhall/Opel Movano, Vivaro.

The KL-0186-1234 support bolt set upgrades the injector nozzle puller set KL-0186-14 K by making it also suitable for use on the above mentioned engines.

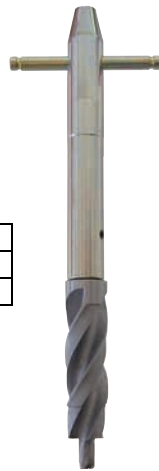
Scope of Delivery:

KL-0186-1234 Set of Support Bolts M6 (113.5mm and 153.5mm)

Part No.	Description	Qty
KL-0186-1234-1	Support Bolt, 113.5mm	2
KL-0186-1234-2	Support Bolt, 153.5mm	2

Technical Data:

Drive:	T-handle
Length:	245mm
Cleaning tool Ø:	7.5/17.4/19mm



KL-1283-112

Cleaning Tool for Injector Nozzle Seat, Renault/Nissan/Opel/Vauxhall/Suzuki/Mitsubishi

Suitable for the Common Rail Diesel engines F9Q on Renault, Nissan, Opel/Vauxhall, Suzuki, Mitsubishi 1.9 dTi, 1.9 dCi, 1.9 CDTI, 1.9 Di, 1.9 DDIs, 1.9 Di-D.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.

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KL-1283-122

Cleaning Tool for Injector Nozzle Seat, Renault/Suzuki/Nissan/Dacia

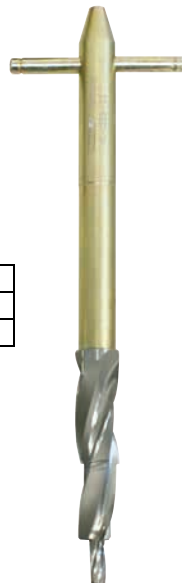
Suitable for the Common Rail Diesel engines K9K on Renault, Suzuki, Nissan, Dacia 1.5 dCi, 1.5 DDis.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.

Technical Data:

Drive:	T-handle
Length:	265mm
Cleaning tool Ø:	7.5/17/20.1mm



KL-0186-14 K (German Utility Model)

Injector Nozzle Puller Set (Universal), with Accessories



For description, please refer to Chapter 6.4-01.

KL-0186-1610 B

Upgrade Kit for KL-0186-14 K

Suitable for the Toyota, Lexus, Mini 1.4, 2.0, 2.2, 2.5 and 3.0 Common Rail Diesel engines as found in the following vehicles: Lexus IS; Mini One (R50); Toyota Auris, Avensis, Corolla Verso/CombiVan, Dyna, Hiace, Hiace/PowerVan, Hilux, IQ, Landcruiser/Prado, RAV4, Verso, Verso/Sportsvan, Yaris. (Engine codes: 1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND])

Used in conjunction with the KL-0186-14 K universal injector nozzle puller set with accessories, the KL-0186-1610 B upgrade kit enables the removal of very tight-fitting/seized injector nozzles to be performed directly on the vehicle without having to dismount the cylinder head.

The special extraction bridge and the pull spindle allow the user to extract the injector nozzle quickly and easily. The injector nozzle needs to be opened for this.

Procedure:

Unscrew injector top part, disassemble remains of injector, screw in pull spindle, unscrew valve cover screws (4 screws), mount extraction bridge, screw on shoulder nut. Extract injector by turning the shoulder nut.



Technical Data:

Connection thread of pull spindle KL-0583-1032:	M14x1.5
Connection thread of pull spindle KL-0186-1612:	M16x1
Connection thread of pull spindle KL-0186-1611:	M20x1

Scope of Delivery:

KL-0186-1610 B Upgrade Kit for KL-0186-14 K

Part No.	Description	Qty
KL-0583-1032	Pull Spindle, M14x1.5, 200mm long	1
KL-0186-1611	Pull Spindle, M20x1, 145mm long	1
KL-0186-1612	Pull Spindle, M16x1, 145mm long	1
KL-0186-2201	Special Insert	1
KL-4417-17	Crowfoot Wrench, Size (waf) 17mm	1
KL-0186-1235-2	Set Screw, M6x25mm	4

KL-0186-1611 A

Pull Spindle, M20x1, with 2 Nuts M25, 145mm long



Suitable for injector nozzles equipped with an M20x1 internal thread, such as DENSO injectors. Installed in Renault Relay/Jumper III, Jumper; Fiat Ducato (250), Linea (110), Bravo (198), Doblo (263); Ford Transit; Isuzu D-Max / Rodeo, N-Series; Mazda 3, 5, 6, MPV; Mitsubishi L200, Pajero / Montero; Nissan X-Trail, Promera, Almera, Primera, Navara, Pathfinder; Opel/Vauxhall Astra H, Astra J, Combo, Corsa D, Meriva B, Insignia, Zafira B, Signum, Vectra C; Peugeot Boxer III; Renault Vel Satis, Espace; Saab 9-5; Toyota Avensis, Corolla Verso, RAV 4 III, Land Cruiser 90, Hiace IV, Hilux II, Hilux III, Dyna, Previa 1.6, 1.7, 2.2, 2.5 and 3.0 Common Rail Diesel engines.

(Engine codes: 198A3.000, 1KD-FTV, 2AD-FT, 2KD-FTV, 4D56, 4HM, 4HU, 4HV, 4JJ1, 4JK1, 4M41, 6DE1, A16FDH, A16FDL, A17DT, A17DTC, A17DTJ, A17DTR, CD-FTV, CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FA, P8FB, P9X, PGFA, PGFB, QVFA, QWFA, RF5C, RF-DI, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA, YD22, YD25.)

The pull spindle upgrades the universal injector nozzle puller set KL-0186-14 K (in conjunction with the respective vehicle-specific upgrade kit KL-0186-1610 A or KL-0186-220) by making it suitable for use also on very tight-fitting/seized injector nozzles.

The advantage of using this tool is that - by screwing the pull spindle into the injector nozzle and additionally screwing the corresponding union nut onto the injector - the applied pulling force is evenly distributed on both threads. This allows even very tight-fitting/stuck injector nozzles to be extracted with ease.

Technical Data:

Connection thread:	M20x1
Union nut (KL-0186-1611-2):	M25x0.5
Union nut (KL-0186-1611-3):	M25x0.75
Length:	145mm

Scope of Delivery:

KL-0186-1611 A Pull Spindle M20x1, with 2 Nuts M25,

Part No.	Description	Qty
KL-0186-1611-1	Pull Spindle, M20x1, 145mm long	1
KL-0186-1611-2	Union Nut, M25x0.5mm	1
KL-0186-1611-3	Union Nut, M25x0.75mm	1



KL-0186-163 K

Injector Nozzle Seat Cleaning Tool, with Compressed Air Adaptor, Toyota

Suitable for the Toyota, Lexus, Mini 1.4, 2.0, 2.2, 2.5 and 3.0 Common-Rail Diesel engines as found in the following vehicles: Lexus IS; Mini One (R50); Toyota Auris, Avensis, Corolla Verso/CombiVan, Dyna, Hiace, Hiace/PowerVan, Hilux, IQ, Landcruiser/Prado, RAV4, Verso, Verso/Sportsvan, Yaris.

(Engine codes: 1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND])

The special design of the **KL-0369-20 A** cleaning tool allows the injector mounting bore, the nozzle seal seat, and the small aperture leading to the combustion chamber to be cleaned in a single operation.

With the aid of the **KL-0186-1631** compressed air adaptor, which is to be screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

Scope of Delivery:

KL-0186-163 K Injector Nozzle Seat Cleaning Tool, with Compressed Air Adaptor

Part No.	Description	Qty
KL-0186-1631	Compressed Air Adaptor for Glow Plug Bore, M10x1.25	1
KL-0369-20 A	Cleaning Tool for Injector Nozzle Seat	1
KL-1383-1329	Plastic Storage Case	1

6



KL-0186-70 K

Fuel Injector Sleeve Removal Tool

Universally suitable for Diesel engines having an injector nozzle seal seat \varnothing of 15mm; as fitted to: Alfa Romeo, BMW, Chevrolet, Chrysler, Fiat, Ford, Hyundai, Iveco, Mazda, Mercedes, Opel/Vauxhall, PSA, Renault, Toyota and Volvo.

The **KL-0186-70 K** fuel injector sleeve removal tool is designed to be used in conjunction with an injector nozzle puller set of the **KL-0186-...**, **KL-0369-...**, **KL-0583-...**, **KL-1283-...**, **KL-1383-...** or **KL-1683-...** Series and the **KL-0040-170 A** hydraulic cylinder (with safety belt), thus allowing for the precise removal of the injector sleeve if injectors are broken off. No need for removing the cylinder head. This is an essential tool if a seized injector nozzle breaks during removal and the injector sleeve remains stuck in the cylinder head. The use of the special pull spindle **KL-0186-7051 H** (included in the kit), allows the user to extract the complete injector sleeve quickly and with ease.

Procedure:

Disassemble the remains of the broken-off injector, cut a thread into injector sleeve, screw in pull spindle, pull out injector sleeve with the aid of the corresponding injector nozzle puller set.

Scope of Delivery:

KL-0186-70 K Fuel Injector Sleeve Removal Tool

Part No.	Description	Qty
KL-0186-701	Nozzle Needle Removal Tool	1
KL-0186-702	Nozzle Needle Removal Tool	1
KL-0186-703	Nozzle Needle Removal Tool	1
KL-0186-704	Screw Tap, 7/16-20UNC, with Holder	1
KL-0186-501	Extension	1
KL-0186-7051 H	Pull Spindle, 7/16-20UNF	1
KL-0186-7043	Rubber-Coated Annular Magnet	2
KL-0126-221	Flexible Magnetic Lifter	1
KL-0186-7090	Plastic Storage Case	1

Technical Data:

Maximum load capacity of the pull spindle:	5t
Nozzle needle removal tool (max. torque):	15 Nm
Nozzle needle removal tool (length):	150 mm
Screw tap:	7/16-20 UNF
Screw tap length:	240mm
Pull spindle (connection thread for extraction bridge):	M16x1.5
Pull spindle (connection thread for injector nozzle):	7/16-20 UNF
Pull spindle length:	480mm

KL-0186-221 K (German Utility Model)

Injector Seat Cleaning Tool, with Compressed Air Adaptors

Compressed air adaptor M10x1 – universally suitable for M10x1 glow plug bores as found on: BMW, Mercedes, Chrysler, Opel/Vauxhall, Nissan, Renault etc.

Compressed air adaptor M8x1 – universally suitable for M8x1 glow plug bores as found on: Citroën, Fiat, Ford, Lancia, Mercedes, Opel/Vauxhall, Suzuki, Volvo etc.

Cleaning Tool - universally suitable for engines having an injector nozzle seat Ø of 17mm such as:

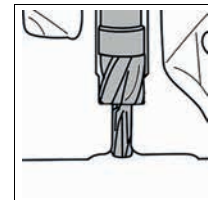
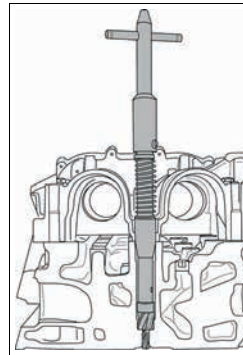
- Mercedes: OM611, OM612, OM613, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM668
- Peugeot: DT17, DT20, DV4, DV6, DW10, DW12
- Citroën: DV4
- Renault: F9Q, G9T, G9U, K9K
- BMW: M47, M47TU, M57, M57TU
- Opel/Vauxhall: Z13DT
- Ford: G8DA, G8DB, HHDA, HHJA, HHJB
- Volvo: D4164T
- Mazda: Y6
- Toyota: 2.2 (2AD-FTV) and 3.0 (1KD-FTV)
- Land Rover: Freelander TD4 (M47D)

The tool allows for the quick and professional cleaning of injector nozzle seats. This is an important operation to be carried out before installing/re-installing an injector in order to avoid leakage between cylinder head and injector nozzle. The spring-loaded centring cone sleeve ensures that the cleaning tool is accurately guided in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble. With the aid of the **KL-0369 55 B** or the **KL-1383-118** compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

Scope of Delivery:

KL-0186-221 K Injector Seat Cleaning Tool, with Compressed Air Adaptors

Part No.	Description	Qty
KL-0186-50	Cleaning Tool (universal) for Injector Nozzle Seat	1
KL-0369-55 B	Compressed Air Adaptor for 10x1 Glow Plug Bore	1
KL-1383-118	Compressed Air Adaptor for M8x1 Glow Plug Bore	1
KL-1383-1329	Plastic Storage Case	1



Technical Data:

Drive:	T-handle
Length:	238mm
Cleaning tool Ø:	7.3/17mm
Connection thread:	M10x1
Length:	178mm
Tube Ø:	15x110mm
Connection thread:	M8x1
Length:	178mm
Tube Ø:	12x80mm

Accessory: Extension **KL-0186-501** for very deep-seated injector nozzles.

KL-0186-50 B (German Utility Model)

Cleaning Tool (Universal) for Injector Nozzle Seat

Universally suitable for the VW-Audi, Seat, Škoda, Citroën, BMW, Ford, Land Rover, Mazda, Mercedes, Opel/Vauxhall, Peugeot, Renault, Toyota, Volvo Diesel engines having an injector nozzle seat Ø of 17mm.

(Engine codes: VW-Audi/Seat/Škoda: AXD, BAY, BLE, BNZ, BNM, BNV, BKC, BWF, BXE, BLS; Mercedes: OM611, OM612, OM613, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM668; Peugeot: DT17, DT20, DV4, DV6, DW10, DW12; Citroën: DV4; Renault: F9Q, G9T, G9U, K9K; BMW: M47, M47TU, M57, M57TU; Opel/Vauxhall: Z13DT; Ford: G8DA, G8DB, HHDA, HHJA, HHJB; Volvo: D4164T; Mazda: Y6; Toyota: 1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND]; Land Rover: TD4, M47D)

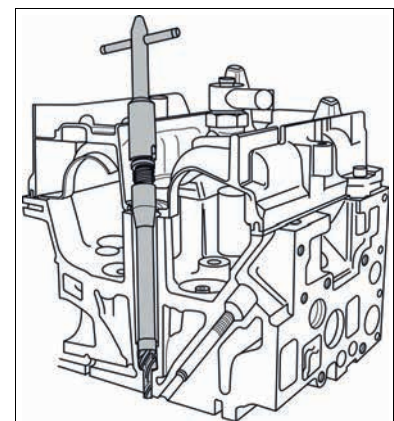
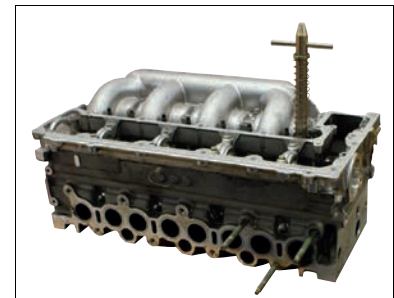
The tool allows for the quick and professional cleaning of injector nozzle seats. Before installing/re-installing an injector nozzle, it is absolutely necessary to clean the seal seat in order to avoid leakage between the cylinder head and injector nozzle. The spring-loaded centring cone sleeve ensures that the cleaning tool is accurately guided in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble.

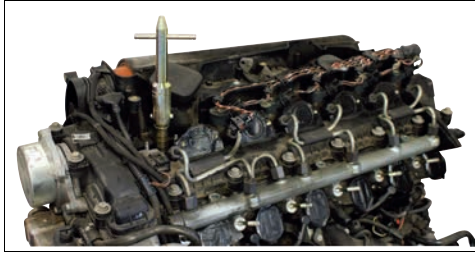
Technical Data:

Drive:	T-Handle
Length:	238mm
Cleaning tool Ø:	7.3/17mm

Accessory:

The drive extension **KL-0186-501** for extremely deep-seated injector nozzles is available as accessory.



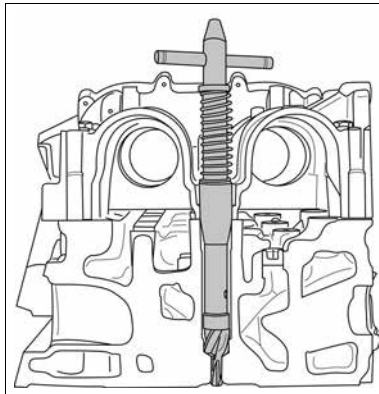


KL-0186-501 Extension (150mm)

The **KL-0186-501** extension is specially designed for very deep-seated injector nozzles. It is used in conjunction with the universal cleaning tool **KL-0186-50** or the **KL-0186-511**.

Technical Data:

Drive:	T-Handle
Length:	150mm



KL-0186-52 [German Utility Model] Cleaning Tool for Injector Nozzle Seat, VW

Universally suitable for the **VW-Audi, Seat, Škoda 2.0 TDI Pumpe-Düse (unit injector) engines having a conical injector nozzle seat \varnothing of 17mm, as found on VW: Caddy III, Eos, Golf Plus, Golf V, Golf VI Variant, Jetta, Passat Variant, Touran; Audi: A3; Seat: Altea, Leon, Toledo III; Škoda: Octavia, Superb. (Engine code: BMM)**

The cleaning tool enables the quick and professional cleaning of conical injector nozzle seats.

This is an indispensable working step before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle.

The spring-loaded centring cone sleeve ensures accurate guiding of the cleaning tool in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble.

Technical Data:

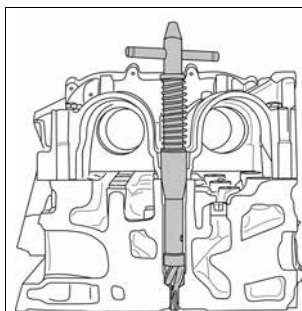
Drive:	T-Handle
Length:	238mm
Cleaning tool \varnothing :	7.5/17mm

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Technical Data:

Drive:	T-Handle
Length:	238mm
Cleaning tool \varnothing :	7.5/17mm



KL-0186-53 K [German Utility Model] Cleaning Tool Set (Universal) for Injector Nozzle Seat

Universally suitable for the **VW-Audi, Seat, Škoda, Citroën, BMW, Ford, Land Rover, Mazda, Mercedes, Opel/Vauxhall, Peugeot, Renault, Toyota, Volvo Diesel engines having a plane injector nozzle seat \varnothing of 17mm; also suitable for use on the VW-Audi, Seat, Škoda 2.0 TDI Pumpe-Düse (unit injector) engines having a conical injector nozzle seat \varnothing of 17mm.**

(Engine codes: VW-Audi/Seat/Škoda: AXD, BAY, BLE, BNZ, BNM, BMM, BNV, BKC, BWF, BXE, BLS; Mercedes: OM611, OM612, OM613, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM668; Peugeot: DT17, DT20, DV4, DV6, DW10, DW12; Citroën: DV4; Renault: F9Q, G9T, G9U, K9K; BMW: M47, M47TU, M57, M57TU; Opel/Vauxhall: Z13DT; Ford: G8DA, G8DB, HHDA, HHJA, HHJB; Volvo: D4164T; Mazda: Y6; Toyota: 2AD-FTV, 1KD-FTV; Land Rover: TD4, M47D)

The cleaning tool set enables the quick and professional cleaning of both plane and conical injector nozzle seats. Proper and thorough cleaning is essential before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle. The spring-loaded centring cone sleeve ensures accurate guidance of the cleaning tool in the injector nozzle bore, thus enabling both the plane and the conical seal seat to be cleaned properly and without any trouble.

Note: The cleaning tool set includes the **KL-0186-52** cleaning tool.

Scope of Delivery: KL-0186-53 K Cleaning Tool Set (Universal)

Part No.	Description	Qty
KL-0186-50 B	Cleaning Tool for Injector Nozzle Seat	1
KL-0186-5202	Cleaning Head, \varnothing 7.5/17 mm	1
KL-1383-1329	Plastic Storage Case	1

KL-0583-102

Cleaning Tool for Injector Nozzle Seat, BMW

Suitable for BMW Common-Rail Diesel engines M47TU, M57 and M57TU.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. Indispensable procedure before re-installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.



Technical Data:

Drive:	T-handle
Length:	296mm
Cleaning tool Ø:	7.5/17/23.7mm

KL-0583-1031 A

Cleaning Tool for Injector Nozzle Seat, BMW

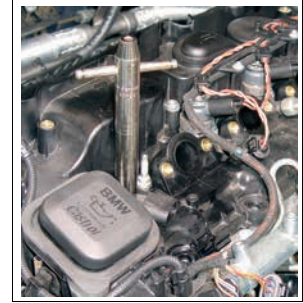
Suitable for the BMW M47 Common Rail Diesel engines.

In a single operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. This is important before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle. The **KL-0186-501** extension is specifically designed for very deep-seated injector nozzles.

Note: When using the **KL-0186-501** extension, the T-handle of the extension and the T-handle of cleaning tool **KL-0186-104** need to be interchanged.

Scope of Delivery: KL-0583-1031 A Cleaning Tool for Injector Nozzle Seat, BMW

Part No.	Description	Qty
KL-1383-104	Cleaning Tool for Injector Nozzle Seat	1
KL-0186-501	Extension	1



Technical Data:

Drive:	T-handle
Length of cleaning tool:	290mm
Length of cleaning tool with extension:	370mm
Cleaning tool Ø:	7.5/17mm

KL-0369-20 A

Cleaning Tool for Injector Nozzle Seat, Common Rail Diesel Engines

Applicable to Common Rail Diesel engines:

Mercedes OM611, OM612, OM613, OM639, OM640, OM642, OM646, OM647, OM648, OM651, OM668, Smart R660

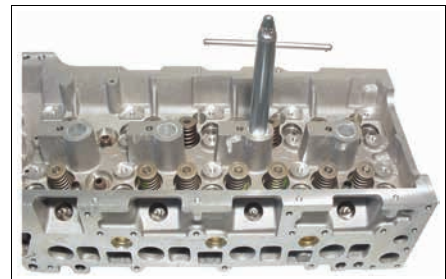
PSA 2.7 HDI / engine: DT17 and 3.0 HDI engine: DT20

Chrysler 2.5 crd / engine: OM664

Toyota 3.0 D-4D / engine: 1 KD-FTV; Toyota 2.2 D-4D / engine: 2 AD-FHV, 2 AD-FTV

Lexus 2.2 Diesel / engine: 2 AD-FHV

In a single operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seat, and the small aperture leading to the combustion chamber. Important procedure before reinstalling an injector nozzle in order to prevent leakage between the cylinder head and the injector.



Technical Data:

Drive:	T-Handle
Length:	261mm
Cleaning tool Ø:	7.5/17/19.1mm

KL-0186-51

(German Utility Model)

Cleaning Tool Set for Injector Nozzle Seat

Suitable for use on the Fiat 2.3 JTD, 2.8 JTD and 3.0 JTD Diesel engines with conical injector nozzle seat.

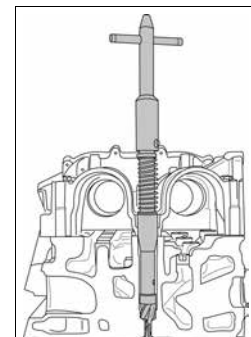
The cleaning tool enables the quick and professional cleaning of conical injector nozzle seats.

Indispensable working step before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle.

The spring-loaded centring cone sleeve ensures accurate guidance of the cleaning tool in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble.

Scope of Delivery: KL-0186-51 Cleaning Tool Set for Injector Nozzle Seat

Part No.	Description	Qty
KL-0186-511	Cleaning Tool for Injector Nozzle Seat	1
KL-0186-501	Extension	1



Technical Data:

Drive:	T-Handle
Length:	238mm
Cleaning tool Ø:	7.5/17mm



Technical Data:

Drive:	T-handle
Length:	261mm
Cleaning tool Ø:	7.5/17/17.6mm

KL-1683-103

Cleaning Tool for Injector Nozzle Seat

Applicable to Common Rail Diesel engines on Opel/Vauxhall, Fiat, Lancia, Suzuki 1.3 JTD, 1.3 CDTi, 1.3 JTD, 1.3 DDIs / engine: Z13DT, 188A9.000.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injection nozzle to avoid leakage between cylinder head and injector nozzle.



Technical Data:

Drive:	T-handle
Length:	245mm
Cleaning tool Ø:	7.5/17.4/19mm

KL-1283-112

Cleaning Tool for Injector Nozzle Seat, Renault/Nissan/Opel/Vauxhall/Suzuki/Mitsubishi

Suitable for the Common Rail Diesel engines F9Q on Renault, Nissan, Opel/Vauxhall, Suzuki, Mitsubishi 1.9 dTi, 1.9 dCi, 1.9 CDTI, 1.9 Di, 1.9 DDIs, 1.9 Di-D.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. Indispensable procedure before re-installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.



Technical Data:

Drive:	T-handle
Length:	265mm
Cleaning tool Ø:	7.5/17/20.1mm

KL-1283-122

Cleaning Tool for Injector Nozzle Seat, Renault/Suzuki/Nissan/Dacia

Suitable for the Common Rail Diesel engines K9K on Renault, Suzuki, Nissan, Dacia 1.5 dCi, 1.5 DDIs.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. Indispensable procedure before re-installing an injection nozzle to avoid leakage between cylinder head and injection nozzle.

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Technical Data:

Drive:	T-Handle
Length:	261mm
Cleaning tool Ø:	7.5/17mm

KL-1383-104

Cleaning Tool for Injector Nozzle Seat, Peugeot/Citroën/Fiat/Lancia/Suzuki

Applicable to 2.0 HDI, 2.0 JTD Common Rail Diesel engines on Peugeot, Citroën, Fiat, Lancia, Suzuki; engine code: DW10; Mercedes, engine code: OM646 EVO; Renault, Nissan, Vauxhall/Opel 2.2 DTI, CDTI, CDI, engine code: G9T; Renault, Nissan, Vauxhall/Opel 2.5 DTI, CDTI, CDI, engine code: G9U.

The special design of this cleaning tool enables the injection nozzle bore, the seal seat and the injector channel to be cleaned in one single operation.

Important! Before any re-installation/installation of an injector, it is essential to clean the seal seat in the cylinder head from deposits such as carbon deposits in order to prevent leakage between cylinder head and injector.



Technical Data:

Drive:	T-handle
Length:	275mm
Cleaning tool Ø:	7.5/17/19.6mm

KL-1383-119

Cleaning Tool for Injector Nozzle Seat, Peugeot/Citroën/Fiat/Lancia

Applicable to the 2.2 HDI, 2.2 JTD Common Rail Diesel engines DW12 on Peugeot, Citroën, Fiat, Lancia.

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber. Indispensable procedure before re-installing/installing an injector nozzle to avoid leakage between cylinder head and injector nozzle.

KL-1383-1311

Cleaning Tool for Injector Nozzle Seat, PSA 1.6

Applicable to 1.6 PSA Common Rail Diesel engines on:

- Fiat 1.6 HDI; engine code: DV6, 9HX, 9HY, 9HZ
- Ford 1.6 TDCi; engine code: G8DA, G8DB, HHDA, HHJA, HHJB
- Volvo 1.6 D; engine code: D4164T
- Mazda 1.6 D; engine code: Y6

In a single machining operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seal seat and the small aperture leading to the combustion chamber.

Indispensable procedure before re-installing/installing an injector nozzle to avoid leakage between cylinder head and injector nozzle.



Technical Data:

Drive:	T-handle
Length:	295mm
Cleaning tool-Ø:	7.5/17/17.6/18.7mm

KL-1383-118

Compressed Air Adaptor for M8x1 Glow Plug Bore

Universally applicable to Citroën, Fiat, Ford, Lancia, Mercedes, Opel/Vauxhall, Suzuki, Volvo etc., (Engine Codes: 169 A1.000, 188 A8.000, 188 A9.000, 199 A2.000, 199 A3.000, 199 A9.000, 199 B1.000, 199 B4.000, 223 A9.000, 263 A2.000, A13DTC, D13A, DT17, DT20, FD4, OM639, OM640, OM642, OM651, Y13DT, Z13DT, Z13DTH, Z13DTJ)

With the aid of the KL-1383-118 compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.



Technical Data:

Connection thread:	M8x1
Length:	178mm
Tube:	Ø 12x80mm

KL-0369-55 B

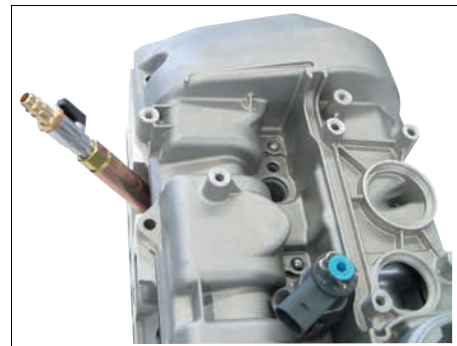
Compressed Air Adaptor for Glow Plug Bore

Universally applicable to, e.g., BMW, Mercedes, Chrysler, Opel/Vauxhall, Nissan, Renault etc.

With the aid of the KL-0369-55 B compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.

Technical Data:

Thread:	M10x1
Length:	178mm
Pipe Ø:	15x110mm



KL-0186-1631

Compressed Air Adaptor for M10x1.25 Glow Plug Bore, Toyota/Lexus

Universally applicable to Diesel engines e.g. Opel/Vauxhall (A17DTJ, A17DTC, A17DTE, A17DTS); Toyota and Lexus (1ND-TV, 1CD-FTV, 1KD-FTV, 2AD-FHV, 2AD-FTV, 2KD-FTV H, 2KD-FTV L, W17D14 [1ND]) etc.

With the aid of the KL-0186-1631 compressed air adaptor, which is screwed into the glow plug bore, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter.



Technical Data:

Connection Thread:	M10x1.25
Length:	207mm
Tube Ø:	15mm

KL-0132-56 KA Glow Plug Tool Set (Universal)



Universally applicable to Diesel engines having either an M8x1 or M10x1 glow plug retaining thread. The ideal tool set for Mercedes (OM639, OM640, OM642, OM651) // Fiat, Citroën, Peugeot, IVECO 2.3 JTD/HDI, 3.0 JTD/HDI, as well as Fiat, Alfa, Lancia 1.3 JTD Common Rail Diesel engines. (F1A, F1C, F30 DT, 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000) and VW-Audi 2.5, 2.7, 3.0 V6 TDI engines.

The universal **KL-0132-56 KA** glow plug tool set enables the accurate removal, respectively drilling out, of damaged glow plugs and re-tapping the original M8x1 and M10x1 thread. It also allows the user to repair a damaged glow plug retaining thread by drilling it up to M10x1 or M12x1 respectively. Then, the new glow plug along with a threaded sleeve can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter. Glow plugs or glow tubes/elements seized in the glow plug channel can be extracted quickly and easily with the aid of the puller that comes with the tool set.

Scope of Delivery:

KL-0132-56 KA Glow Plug Tool Set (Universal)

Part No.	Description	Qty
KL-0132-56 EA	Glow Plug Tool Set (Universal), in a Foam Insert	1
KL-0132-5691	Plastic Storage Case	1

Scope of Delivery: KL-0132-56 EA Glow Plug Tool Set (Universal), in a Foam Insert

Part No.	Description	Qty
KL-0369-201 A	Glow Plug Removal Tool, Mercedes	1
KL-0369-202	Glow Plug Removal Tool, M8x1	1
KL-0132-5502	Pilot Drill, Ø 7.1mm for M8x1	1
KL-0132-5503	Screw Tap, M8x1	1
KL-0283-7003	Guide Sleeve, Ø 13mm	1
KL-0132-5201	Guide Sleeve for Mercedes	1
KL-0132-5504	Guide Sleeve for Fiat JTD	1
KL-0132-5505	Guide Sleeve for Mercedes/Fiat	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-1383-2042	Set of Threaded Sleeves, M10x1, 26mm long (10-piece)	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0283-7050	Puller (Base Tool)	1
KL-1383-2052	Puller Bolt, 1/4"-20 UNC, 185mm long	1
KL-1383-2242	Puller Bolt No. 12-24 UNC, 165mm long	1
KL-0369-2510 A	Holder, M8x1, with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm	1
KL-0369-2522 A	Reamer, Ø 5.2mm	1
KL-0369-2610 A	Holder, M9x1, with Set Screw	1
KL-0369-2710 A	Holder, M10x1, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1
KL-0369-2740 A	Holder, M10x1 with Set Screw	1
KL-0369-2810 A	Holder, M10x1.25, with Set Screw	1
KL-0369-2910 A	Holder, M12x1.25, with Set Screw	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1683-2061	Pilot Drill, Ø 9.1mm for M10x1	1
KL-1683-2062	Screw Tap, M10x1	1
KL-4007-2510	Adaptor for Power Drill, 3/8"	1
KL-1683-2063	Set of Threaded Sleeves, M8x1, 13mm long	1
KL-0369-306	Tool Holder, with Square Socket 2.4-5.5mm	1
KL-0369-9001	Glow Plug Socket with Joint, Size (waf) 8mm, long	1
KL-0369-9002	Glow Plug Socket with Joint, Size (waf) 9mm, long	1
KL-0369-9003	Glow Plug Socket with Joint, Size (waf) 10mm, long	1
KL-0369-9004	Glow Plug Socket with Joint, Size (waf) 12mm, long	1
KL-0369-9005	Glow Plug Socket with Joint, Size (waf) 14mm, long	1
KL-0369-9006	Glow Plug Socket with Joint, Size (waf) 16mm, long	1
KL-1383-2241	Screw Tap No. 12-24 UNC	1
KL-0369-3056	Screw Tap, 1/4"-20 UNC	1
KL-0049-100	Slide Hammer Puller Base Tool	1
KL-1683-2051	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1683-2052	Screw Tap, M8x1	1
KL-0283-7031 A	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032 A	Screw Tap, M12x1	1
KL-0132-5501	Puller Bolt No. 12-24 UNC, for Slide Hammer Puller	1
KL-0132-5202	Puller Bolt, 1/4"-20 UNC, for Slide Hammer Puller	1
KL-0369-3052	Shoulder Nut	1
KL-0132-5692	Foam Insert	1

KL-0132-56 EA



KL-0132-55 K Glow Plug Tool Set (Universal), M8x1

Suitable for glow plug thread M8x1, e.g. on Mercedes OM639, OM640, OM642, OM651 and Fiat 1.3 JTD, 2.3 JTD, 3.0 JTD.

The universal glow plug tool set **KL-0132-55 K** enables the quick and easy drilling out of damaged or broken-off glow plugs.

The glow plug, respectively the top part of the glow plug, is drilled out or drilled up with the aid of the pilot drill. Next, the original thread is recut and cleaned by means of the special screw tap. The residual glow plug body can then be extracted using the screw tap or a puller bolt in conjunction with a slide hammer puller such as the **KL-0049-100**.

The tool set also contains two special guide sleeves for Fiat JTD and Mercedes CDI engines. These sleeves ensure precise alignment and guidance as well as accurate drilling depth.

Scope of Delivery:

KL-0132-55 K Glow Plug Tool Set (Universal), M8x1

Part-No.	Description	Qty
KL-0132-5501	Puller Bolt No. 12-24 UNC for Slide Hammer Puller	1
KL-0132-5502	Pilot Drill, Ø 7.1 mm, for M8x1	1
KL-0132-5503	Screw Tap M8x1	1
KL-0132-5504	Guide Sleeve for Fiat JTD	1
KL-0132-5505	Guide Sleeve for Mercedes	1
KL-0369-306	Tool Holder with Square Socket	1
KL-1383-2241	Screw Tap No.12-24 UNC	1
KL-4007-2510	Adaptor for Power Drill, 3/8"	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0132-5590	Plastic Storage Case	1



KL-0132-61 K Glow Plug Tool Set (Universal), M9x1

Universally suitable for use on the Alfa, Fiat, Lancia, Opel/Vauxhall and Saab 1.9 as well as 2.4 D/TiD/JTD/JTDM/CDTI Diesel engines having an M9x1 glow plug retaining thread.

For example, fitted to Alfa 147, 156, 159, 166, GT; Opel/Vauxhall Astra H, Astra V, Signum, Vectra C, Zafira; Saab 9-3; Fiat Croma, Stilo; Lancia Thesis etc.

(Engine codes: 192A5.000, 841G.000, 841H.000, 937A5.000, 939A2.000, 939A3.000, 939A8.000, Z19DTH, Z19DTJ)

The universal **KL-0132-61 K** glow plug tool set enables the quick and easy drilling out of damaged or broken-off glow plugs.

The glow plug, respectively the glow plug top connector, is drilled out/drilled up with the aid of the pilot drill. Next, the original thread is re-tapped and cleaned with the special screw tap. Then, the remains of the glow plug can be removed using either the screw tap or the puller bolt in conjunction with a slide hammer puller such as **KL-0049-100**.





KL-0132-52 K

Glow Plug Tool Set (Universal), M10x1

Suitable for use on M10x1 glow plug threads; e.g. as found in VW-Audi, Mercedes, Opel/Vauxhall, Peugeot, Renault etc.

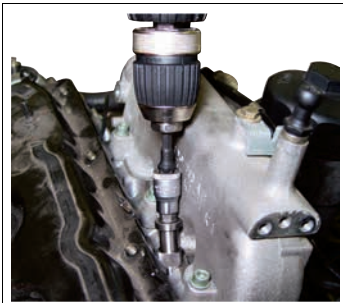
The universal glow plug tool set **KL-0132-52 K** enables the quick and easy drilling out of damaged or broken-off glow plugs.

The glow plug, respectively the glow plug top connector, is drilled out or drilled up with the aid of the pilot drill. Next, the original thread is recut and cleaned by means of the special tap. The residual glow plug body can then be extracted using the screw tap or a puller bolt in conjunction with a slide hammer puller such as **KL-0049-100**. The tool set also contains two special guide sleeves for VW Audi V6 TDI and Mercedes CDI engines. These sleeves ensure precise alignment and guidance as well as accurate drilling depth.

Scope of Delivery:

KL-0132-52 K Glow Plug Tool Set (Universal), M10x1

Part No.	Description	Qty
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-0283-7003	Guide Sleeve, Ø 13mm	1
KL-0132-5201	Guide Sleeve, for Mercedes	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-3056	Screw Tap, 1/4"-20 UNC, with Drill Bit	1
KL-0132-5202	Puller Bolt, 1/4"-20 UNC, for Slide Hammer Puller	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0132-5290	Plastic Storage Case	1



6



KL-0132-62 K

Glow Plug Tool Set (Universal), M10x1.25

Universally applicable to the Opel/Vauxhall, Mazda, Ford, Hyundai, Honda, Kia, Mini, Nissan and Toyota 1.4-3.0 D/DI/DTI/TD/CRDi/CDTi Diesel engines having an M10x1.25 glow plug retaining thread. For example, fitted to Opel/Vauxhall Astra G, Astra H, Combo, Corsa C, Meriva, Signum, Vectra C; Mazda 626 II, 626 III, 626 IV, MPV I, B-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 K** glow plug tool set enables the quick and easy drilling out of damaged or broken-off glow plugs.

The glow plug, respectively the glow plug top connector, is drilled out/drilled up with the aid of the pilot drill. Next, the original thread is re-tapped and cleaned with the special screw tap. Then, the remains of the glow plug can be removed using either the screw tap or the puller bolt in conjunction with a slide hammer puller such as **KL 0049-100**.

KL-0049-100

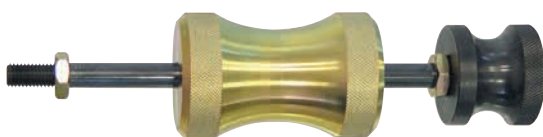
Slide Hammer Puller (Base Tool)

This tool is designed to extract tight-fitting and seized components such as glow plugs, spindles etc. It is used in conjunction with the respective corresponding adaptors or puller bolts.

Scope of Delivery:

KL-0049-100 Slide Hammer Puller (Base Tool)

Part No.	Description	Qty
KL-0049-1503	Pull Rod	1
KL-0049-1012	Handle	1
KL-0049-1013	Hammer Weight	1
KL-0049-1003	Hex Nut, M10	2



KL-0369-300 A Roller-Type Stud Removal Socket

The socket is used to twist the electrode top connector/protruding central electrode off the glow plug.

Technical Data:

For electrode Ø:	2.5-4.5mm
Length:	70mm

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible Ratchet

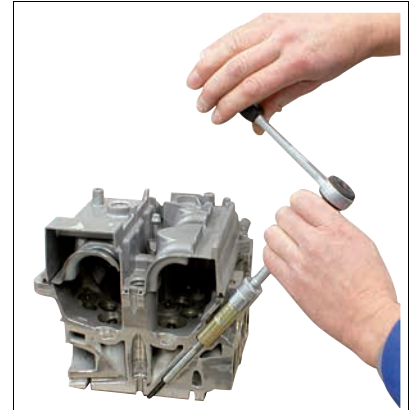


DMK 100 CODE:2641232

Torque Wrench Dremaster 20-100Nm



7 R - Combination Ratchet Spanner



KL-0283-70 K Glow Plug Tool Set, VW-Audi

Suitable for use on M10x1 glow plug threads as found in VW-Audi 2.5, 2.7 and 3.0 V6 TDI engines.

(Engine codes: AFB, AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC, BPP, BSG, ASB, BKN, BKS, BMK, BNG, BUN, BUG)

The **KL-0283-70 K** glow plug tool set is designed for the quick, accurate and professional drilling out of damaged or torn-off glow plugs. Set also includes tools for recutting, cleaning and the repair of glow plug retaining threads as well as for the cleaning of glow plug bores.

First, the glow plug top part is drilled out or drilled up by means of the pilot drill. Next, the original thread is recut and cleaned using the special screw tap. If glow plug retaining threads are damaged, these can be drilled up to M12x1 with the aid of the special oversize screw tap.

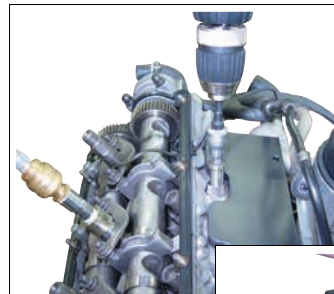
The centring/guide sleeves included in this tool set, ensure accurate and correct centring and guidance as well as the exact drilling depth whilst drilling out and during the thread repair. The remaining glow plug body is then extracted with the puller.

Finally the glow plug bore hole, the seal seat and the small aperture leading to the combustion chamber can be cleaned with the reamer.

Scope of Delivery:

KL-0283-70 K Glow Plug Tool Set, VW-Audi

Part No.	Description	Qty
KL-0283-7001	Cover Plate	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0283-7002	Guide Sleeve, Ø 13mm, long	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-0283-7003	Guide Sleeve, Ø 13mm	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0283-704	Compressed Air Adaptor for Injection Nozzle Bore	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0283-705	Puller Tool for Glow Plug Body	1
KL-0283-7061	Cleaning Tool (long)	1
KL-0283-7062	Cleaning Tool (short)	1
KL-0283-7063	Guide Sleeve for Cleaning Tool	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0283-7090	Plastic Storage Case	1





KL-0283-70-1 K

Upgrade Kit (TDI) for KL-0369-30 K (to form KL-0283-70 K), VW-Audi

The KL-0283-70-1 K tool kit is designed to upgrade the KL-0369-30 K glow plug tool set so that this also covers the VW-Audi V6 TDI engines.

Scope of Delivery: KL-0283-70-1 K Upgrade Kit (TDI)

Part No.	Description	Qty
KL-0283-7001	Cover Plate	1
KL-0283-7002	Guide Sleeve, Ø 13mm, long	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-0283-7003	Guide Sleeve, Ø 13mm	1
KL-0283-704	Compressed Air Adaptor for Injector Nozzle Bore	1
KL-0283-7050	Puller (Base Tool)	1
KL-0283-7052	Support Sleeve	1
KL-0283-7061	Cleaning Tool (long design)	1
KL-0283-7062	Cleaning Tool (short design)	1
KL-0283-7063	Guide Sleeve for Cleaning Tool	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0283-7090	Plastic Storage Case	1



KL-0369-34 KA

Glow Plug Tool Upgrade Kit, Mercedes

Applicable to Mercedes CDI engines with either M8x1 or M10x1 glow plug retaining threads. (Engine codes: OM611, OM612, OM613, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM668)

The KL-0369-34 KA upgrade kit is used in conjunction with the universal glow plug tool set KL-0132-56 KA, thus, allowing for the accurate removal, respectively drilling out, of damaged glow plugs and re-tapping the original M8x1 and M10x1 thread. It also allows the user to repair a damaged glow plug retaining thread by drilling it up to M10x1 or M12x1 respectively.

Then, the new glow plug along with a threaded sleeve can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air is injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

With the aid of the puller that comes with the KL-0132-56?KA tool set, glow plugs or glow tubes/elements that are stuck/seized in the glow plug channel can be pulled out quickly and with ease.

Scope of Delivery:

KL-0369-34 KA Glow Plug Tool Upgrade Kit, Mercedes

Part No.	Description	Qty
KL-0369-34 EA	Glow Plug Tool Upgrade Kit, Mercedes, in a Foam Insert	1
KL-0132-5691	Plastic Storage Case	1



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Scope of Delivery: KL-0369-34 EA Glow Plug Tool Upgrade Kit, Mercedes, in an Foam Insert

Part No.	Description	Qty
KL-0369-3071	Guide Sleeve, Ø 17x75mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3081	Retaining Sleeve for Ø 17mm	1
KL-0369-3171	Guide Sleeve, Ø 13x75mm	1
KL-0369-3172	Guide Sleeve, Ø 13x60mm	1
KL-0369-3173	Guide Sleeve, Ø 13x12mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3311	Base Plate	1
KL-0369-3312	Special Screw, M7	3
KL-0369-3313	Setting Bolt	1
KL-0369-3321	Guide Sleeve for Milling Cutter	1
KL-0369-3331	Guide Sleeve for Drill	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-3361	Guide Sleeve for Reamer	1
KL-0369-3362	Reamer, Ø 7/4.8mm	1
KL-0369-3341	Guide Sleeve for Puller	1
KL-0369-3221	Base Plate with Inclined Bore	1
KL-0369-3222	Special Nut	3
KL-0369-3231	Guide Sleeve for Drill	1
KL-0369-3241	Reamer, Ø 5.8mm	1
KL-0369-3242	Guide Sleeve for Reamer, Ø 5.8mm	1
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-3031 A	Base Body	1
KL-0369-3041	Guide Sleeve for Reamer	1
KL-0369-3042 A	Reamer	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode	1
KL-0369-3492	Foam Insert	1

KL-0369-30 K Glow Plug Tool Set, Mercedes CDI

Suitable for use on the Mercedes CDI engines OM611, OM612, OM613, OM646, OM646 EVO, OM647 and OM648 etc.

Designed for the accurate and professional removal of seized glow plugs without removing the cylinder head from the vehicle.

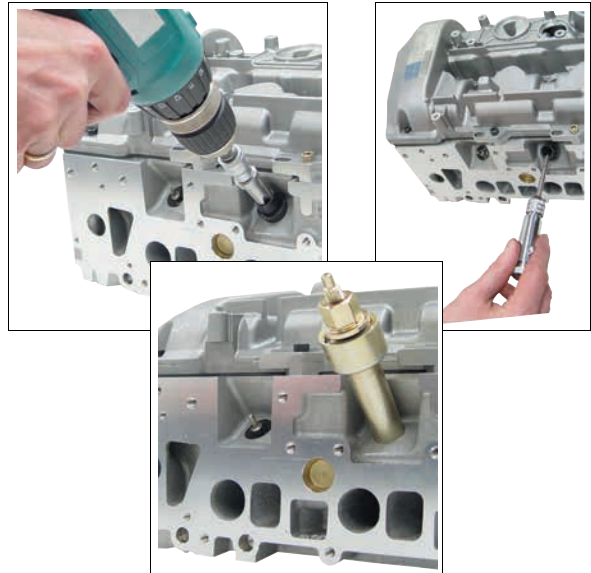
The **KL-0369-30 K** glow plug tool set enables the accurate removal respectively drilling out of damaged glow plugs, as well as re-tapping the original M10x1 thread. It also allows the user to repair a damaged glow plug retaining thread M10x1 by drilling it up to M12x1. Then, the new glow plug along with a threaded sleeve (M12x1 to M10x1) can be screwed into the cylinder head.

Glow plugs or glow tubes/elements seized in the glow plug channel can properly be extracted with the aid of the puller that comes with the tool set.

Scope of Delivery:

KL-0369-30 K Glow Plug Tool Set, Mercedes CDI

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-303	Installation/Removal Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-2013	Collet Chuck	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1



KL-0369-31 K Glow Plug Tool Set, CDI

Suitable for use on the Mercedes CDI engines OM611, OM612, OM613, OM646, OM646 EVO, OM647 and OM648 etc.

Designed for the accurate and professional removal of seized glow plugs without removing the cylinder head from the vehicle.

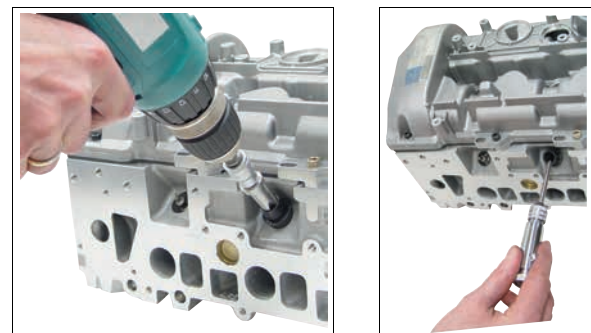
The glow plug tool set **KL-0369-31 K** enables the accurate removal/drilling out of damaged glow plugs as well as recutting the original M10x1 thread.

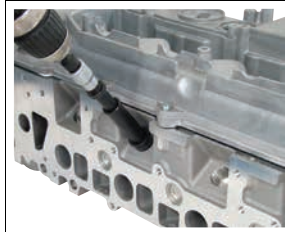
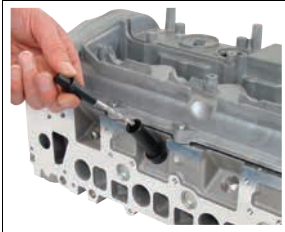
Glow plugs or glow plug elements seized in the glow plug channel can be extracted with the aid of the puller included in the tool set.

Scope of Delivery:

KL-0369-31 K Glow Plug Tool Set, CDI

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1 thread	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-303	Mounting/Dismounting Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-4007-2510	Adaptor for Power Drill, 3/8" Square Socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1





KL-0369-307 K

Milling Cutter Kit for Glow Plug Electrode, Mercedes

Suitable for use on Mercedes CDI engines **OM611, OM612, OM613, OM646, OM646 EVO, OM647 and OM648.**

This kit complements our glow plug tool sets **KL-0369-30 K** and **KL-0369-31 K**. The milling cutter is used in conjunction with our **KL-0369-30 K/ KL-0369-31 K** tool sets, thus allowing for the professional milling off of the centre electrode from torn-off glow plugs.

Scope of Delivery: KL-0369-307 K Milling Cutter Kit for Glow Plug Electrode

Part No.	Description	Qty
KL-0369-3071	Guide Sleeve, Ø 17x75mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3031 A	Base Body, 75mm long	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3079	Plastic Storage Case	1

KL-0369-317 K

Milling Cutter Kit for Glow Plug Electrode, Mercedes

Suitable for use on Mercedes CDI engines with an **M8x1 or M10x1 glow plug retaining thread**, e.g.: **OM611, OM612, OM613, OM639, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM651 and OM668.**

Once the top connector has been separated from the glow plug with the aid of the **KL-0369-300** roller-type stud removal socket (included in tool sets **KL-0369-30K / KL-0369-31 K**), the remaining centre electrode can be milled off with the **KL-0369-317 K** milling cutter.

The residual glow plug tube with heating element can then be removed/drilled out using the **KL-0369-30 K / -31 K** tool set (with OM611, OM612, OM613, OM646, OM646 EVO, OM647, OM648), the **KL-0369-32 K** tool set (with OM668) or the **KL-0132-55 K** tool set (with OM639, OM640, OM642, OM651).

Scope of Delivery: KL-0369-317 K Milling Cutter Kit for Glow Plug Electrode

Part No.	Description	Qty
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-0369-3071	Guide Sleeve, Ø 17x75mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3081	Retaining Sleeve for Ø 17mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3171	Guide Sleeve, Ø 13x75mm	1
KL-0369-3172	Guide Sleeve, Ø 13x60mm	1
KL-0369-3173	Guide Sleeve, Ø 13x12mm	1
KL-0369-3031 A	Base Body, 75mm long	1
KL-0369-3079 A	Plastic Storage Case	1



Technical Data:

Weight:	0.6kg
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Technical Data:

Length:	240mm
Weight:	290g

KL-0369-56 B

Compressed Air Adaptor, M10x1

Suitable for use on Mercedes CDI engines: **OM611, OM612, OM613, OM646, OM646 EVO, OM647, OM648 etc.**

With the aid of this adaptor, compressed air can be injected into the combustion chamber so as to prevent impurities from entering the latter (piston of the cylinder to be repaired on TDC position, valves are closed).

The tool is needed when drilling out broken off glow plugs or when repairing glow plug retaining threads.

The built-in control valve ensures the correct supply of compressed air.

KL-0369-30-1 K

Upgrade Kit (CDI) for KL-0369-32 K (to form KL-0369-30 K), Mercedes

The **KL-0369-30-1 K** tool kit upgrades the **KL-0369-32 K** glow plug tool set by making it also suitable for use on the Mercedes CDI engines OM 611, 612, 613, 646, 646 EVO, 647, 648 etc.

Scope of Delivery:

KL-0369-30-1 K Upgrade kit (CDI) for KL-0369-32 K (to form KL-0369-30 K)

Part No.	Description	Qty
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-303	Installation/Removal Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-2013	Collet Chuck	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1



KL-0369-30-2 K

Upgrade Kit (CDI) for KL-0369-33 K (to form KL-0369-30 K), Mercedes

The **KL-0369-30-2 K** tool kit upgrades the **KL-0369-33 K** glow plug tool set by making it also suitable for use on the Mercedes CDI engines OM 611, 612, 613, 646, 646 EVO, 647 and 648 etc.

Scope of Delivery:

KL-0369-30-2 K Upgrade Kit (CDI) for KL-0369-33 K (to form KL-0369-30 K)

Part No.	Description	Qty
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0369-303	Installation/Removal Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-2013	Collet Chuck	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1



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KL-0369-30-3 K

Upgrade Kit (CDI) for KL-0283-70 K (to form KL-0369-30 K), Mercedes

The **KL-0369-30-3 K** tool kit upgrades the **KL-0283-70 K** glow plug tool set by making it also suitable for use on the Mercedes CDI engines OM 611, 612, 613, 646, 646 EVO, 647 and 648 etc.

Scope of Delivery:

KL-0369-30-3 K Upgrade Kit (CDI) for KL-0283-70 K (to form KL-0369-30 K)

Part No.	Description	Qty
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-3013	Guide Sleeve for Drill	1
KL-0369-3014	Centring Sleeve	1
KL-0369-303	Installation/Removal Tool for Centring Sleeve	1
KL-0369-3041	Guide Sleeve for Cleaning Tool	1
KL-0369-3042 A	Cleaning Tool	1
KL-0369-2013	Collet Chuck	1
KL-0369-3050	Puller (Base Tool)	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3090	Plastic Storage Case	1





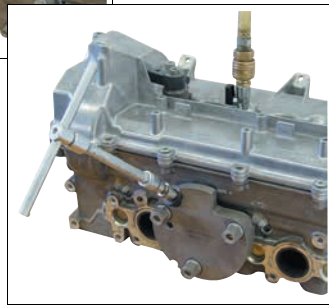
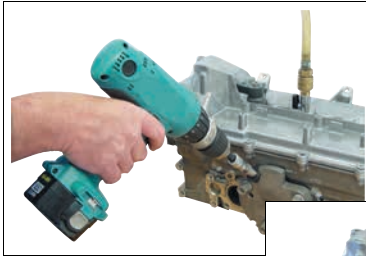
KL-0369-32 K

Glow Plug Tool Set, Mercedes CDI

Suitable for use on Mercedes CDI engines OM668 as found in A-Class.

Designed for the professional removal of seized, corroded or broken-off glow plugs. The kit also includes all the necessary tools to repair glow plug retaining threads without the need for removing the cylinder head from the vehicle.

The **KL-0369-32 K** glow plug tool set enables broken-off glow plugs to be drilled out accurately and the original M10x1 internal thread to be recut. It also allows the user to repair a damaged M10x1 glow plug retaining thread by drilling it up to M12x1. The new glow plug along with a threaded sleeve (M12x1 to M10x1) can then be screwed into the cylinder head.



Scope of Delivery:

KL-0369-32 K Glow Plug Tool Set, Mercedes CDI

Part No.	Description	Qty
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-322	Base Plate with Nuts	1
KL-0369-3231	Guide Sleeve for Drill	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-324	Cleaning Tool Kit for Glow Plug Channel	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3290	Plastic Storage Case	1

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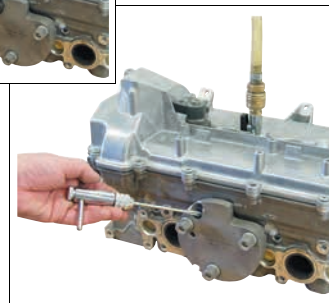
KL-0369-320 K

Glow Plug Tool Set, Mercedes A-Class

Suitable for use on Mercedes CDI engines OM668 as found in A-Class etc.

Indispensable for the accurate and professional removal of seized or broken-off glow plugs without the need to remove the cylinder head from the vehicle.

The glow plug tool set **KL-0369-320 K** enables the accurate drilling out of broken glow plugs as well as recutting and cleaning the original M10x1 thread. Glow plugs or glow plug bodies seized in the glow plug channel can be extracted with the puller that comes with the tool set.



Scope of Delivery:

KL-0369-320 K Glow Plug Tool Set, Mercedes A-Class

Part No.	Description	Qty
KL-0369-322	Base Plate with Nuts	1
KL-0369-3231	Guide Sleeve for Drill	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1 thread	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-324	Cleaning Tool Kit for Glow Plug Channel	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-4007-2510	Adaptor for Power Drill, 3/8", square socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3290	Plastic Storage Case	1

KL-0369-308 K

Milling Cutter Kit for Glow Plug Electrode, Mercedes

Suitable for use on the following Diesel engines: Mercedes A-Class 1.7 CDI, Fiat Ducato 2.3/3.0 JTD, Peugeot Boxer III 3.0 HDI, Citroën Relay/Jumper III 3.0 HDI and Iveco Daily 2.3/3.0 JTD.

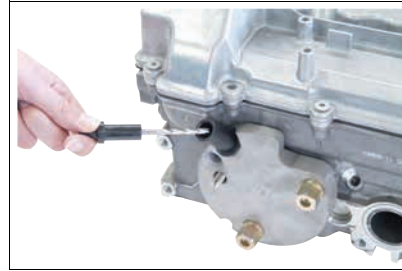
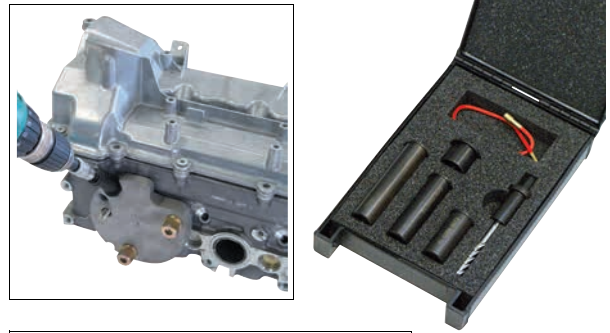
(Engine codes: OM668, F1AE 0481, F1CE 0481, F1CE 3481, F30DTE)

The milling cutter kit complements our KL-0369-32 K glow plug tool set. The tool is designed to mill off the centre electrode from torn-off glow plugs. It is used in conjunction with the glow plug tool set KL-0369-32 K.

Scope of Delivery:

KL-0369-308 K Milling Cutter Kit for Glow Plug Electrode, Mercedes

Part No.	Description	Qty
KL-0369-3071	Guide Sleeve, Ø 17x76mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3081	Retaining Sleeve for Ø 17mm	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3079	Plastic Storage Case	1



KL-0369-32-1 K

Upgrade Kit (CDI) for KL-0369-30 K

The KL-0369-32-1 K tool kit upgrades the KL-0369-30 K glow plug tool set by making it also suitable for use on CDI engines OM668 as found in Mercedes A-Class-etc.

Scope of Delivery:

KL-0369-32-1 K Upgrade Kit (CDI) for KL-0369-30 K

Part No.	Description	Qty
KL-0369-322	Base Plate with Nuts	1
KL-0369-3231	Guide Sleeve for Drill	1
KL-0369-3241	Reamer, Ø 5.8mm	1
KL-0369-3242	Guide Sleeve for Reamer, Ø 5.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3290	Plastic Storage Case	1



6

KL-0369-32-2 K

Upgrade Kit (CDI) for KL-0369-33 K (to form KL-0369-32 K)

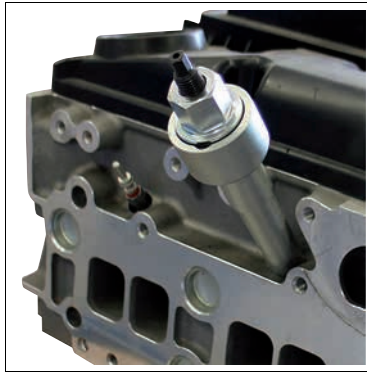
The KL-0369-32-2 K tool kit upgrades the KL-0369-33 K glow plug tool set by making it also suitable for use on CDI engines OM668 as found in Mercedes A-Class-etc.

Scope of Delivery:

KL-0369-32-2 K Upgrade Kit (CDI) for KL-0369-33 K (to form KL-0369-32 K)

Part No.	Description	Qty
KL-0369-322	Base Plate with Nuts	1
KL-0369-3231	Guide Sleeve for Drill	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3023	Set of Threaded Sleeves, M10x1, 17mm long (10-piece)	1
KL-0369-305	Puller for Glow Plug Body	1
KL-0369-3241	Reamer, Ø 5.8mm	1
KL-0369-3242	Guide Sleeve for Reamer, Ø 5.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3290	Plastic Storage Case	1





KL-0369-202

Glow Plug Removal Tool, M8x1

Universally applicable to Diesel engines having an M8x1 glow plug retaining thread and a glow plug size of 8mm waf.

Particularly useful, for example, on Mercedes: OM642, OM651, OM640; Fiat / Lancia / Opel/Vauxhall 1.3 JTD / CDTi; PSA: 2.2 (DW12), 1.4 (DV4 8V), 1.6 (DV6 8V + 16V), 2.7 (DT17) and VW 2.5 TDI.

The tool is designed for pulling out glow plugs that have been unscrewed, but are still stuck in their bore hole in the cylinder head.

Technical Data:

Drive:	waf 19/6mm
Length:	135mm



KL-0369-33 K

Glow Plug Tool Set, M8x1, Mercedes

Suitable for use on Mercedes CDI Diesel engines OM640 and OM642 with M8x1 glow plug thread.

The KL-0369-33 K glow plug tool set allows for the quick, accurate and professional drilling out of damaged or snapped-off glow plugs. The set also includes tools for the recutting, cleaning and repair of glow plug retaining threads as well as for the cleaning of glow plug bores.

First, the glow plug/top connector is drilled out/drilled up by means of the pilot drill. Next, the original thread is recut with the aid of the screw tap and cleaned. If glow plug retaining threads are damaged, these can be drilled up to M10x1 using the special re-bore tap.

The use of the centring/guide sleeves in conjunction with the base plate ensures accurate and correct centring and guidance as well as the exact drilling depth when drilling out/repairing the thread. The remainder of the glow plug can be extracted with the puller.

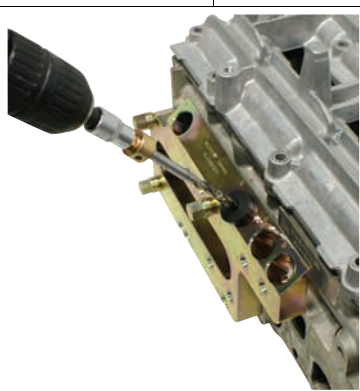
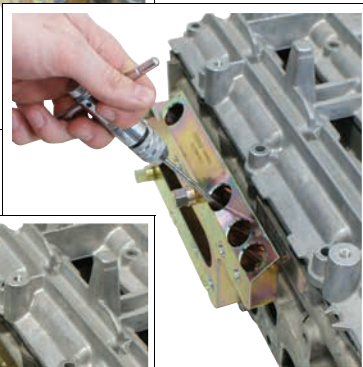
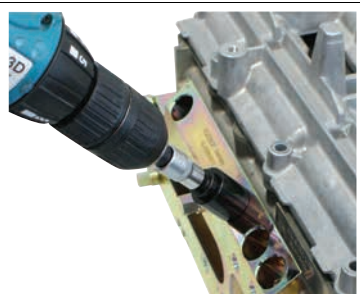
Finally, the glow plug bore, the sealed seat, and the glow plug channel (the small aperture leading to the combustion chamber) are cleaned with the cleaning tool.

Scope of Delivery:

KL-0369-33 K Glow Plug Tool Set, M8x1, Mercedes

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0369-3311	Base Plate	1
KL-0369-3312	Special Screw, M7	3
KL-0369-3313	Setting Bolt	1
KL-0369-3321	Guide Sleeve for Milling Cutter	1
KL-4007-2510	Adaptor for Power Drill, 3/8", square socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare Milling Cutter)	1
KL-0369-3331	Guide Sleeve for Drill	1
KL-1383-2231	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1383-2232	Screw Tap, M8x1	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-1383-2234	Set of Threaded Sleeves M8x1, 16mm long (10 units)	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-334	Puller for Glow Plug Body	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-3361	Guide Sleeve for Cleaning Tool	1
KL-0369-3362	Cleaning Tool, Ø 7/4.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3390	Plastic Storage Case	1

6



KL-0369-330 K Glow Plug Tool Set, M8x1, Mercedes

Suitable for use on Mercedes CDI Diesel engines OM640 and OM642 with M8x1 glow plug thread.

The glow plug tool set **KL-0369-330 K** enables the quick, accurate and professional drilling out of damaged or snapped-off glow plugs. The set also includes tools for recutting and cleaning glow plug retaining threads as well as for the cleaning of glow plug bores.

First, the glow plug/top connector is drilled out/drilled up by means of the pilot drill. Next, the original thread is recut with the aid of the screw tap and cleaned.

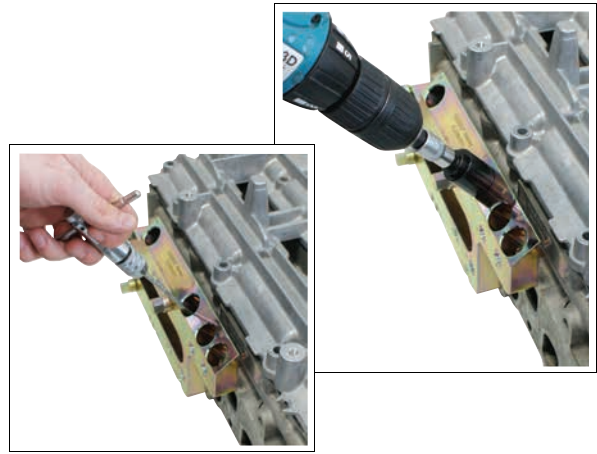
The use of the centring/guide sleeves in conjunction with the base plate ensures accurate and correct centring and guidance as well as the exact drilling depth when drilling out/repairing the thread. The remainder of the glow plug can be extracted with the puller.

Then, the glow plug bore, the sealed seat, and the glow plug channel (the small aperture leading to the combustion chamber) are cleaned with the cleaning tool.

Scope of Delivery:

KL-0369-330 K Glow Plug Tool Set, M8x1, Mercedes

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0369-331	Base Tool	1
KL-0369-3321	Guide Sleeve for Milling Cutter	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-0369-3331	Guide Sleeve for Drill	1
KL-1383-2231	Pilot Drill, Ø 7.1 mm for M8x1	1
KL-1383-2232	Screw Tap, M8x1	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-334	Puller for Glow Plug Body	1
KL-0369-3361	Guide Sleeve for Cleaning Tool	1
KL-0369-3362	Cleaning Tool, Ø 7/4.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3390	Plastic Storage Case	1



KL-0369-33-1 K Upgrade Kit (CDI) for KL-0369-30 K/KL-0369-32 K

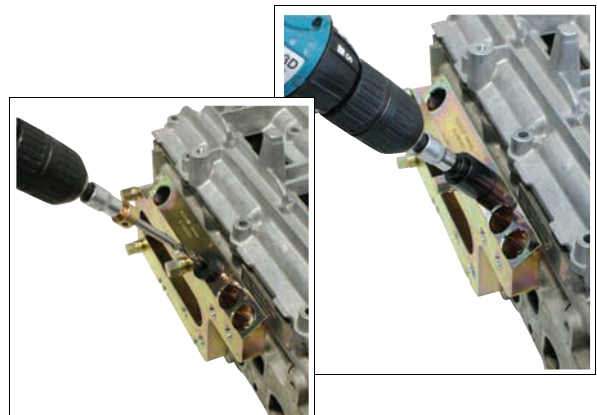
Applicable to Mercedes CDI Diesel engines OM640 and OM642 with M8x1 glow plug thread.

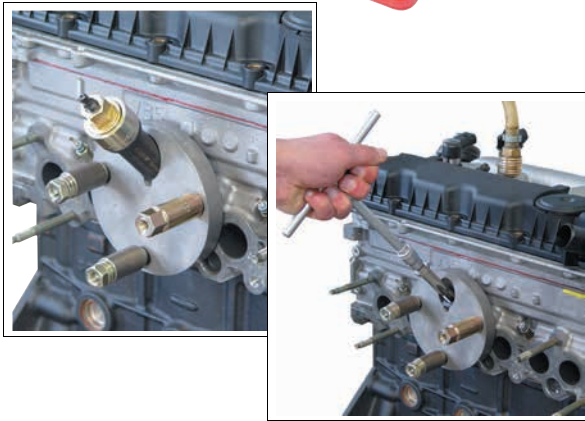
The **KL-0369-33-1 K** upgrade kit is designed to complement our glow plug tool sets **KL-0369-30 K** and **KL-0369-32 K** making these suitable for use also on Mercedes CDI Diesel engines OM640 and OM642 with M8x1 glow plug thread.

Scope of Delivery:

KL-0369-33-1 K Upgrade Kit (CDI) for KL-0369-30 K/KL-0369-32 K

Part No.	Description	Qty
KL-0369-331	Base Tool	1
KL-0369-3321	Guide Sleeve for Milling Cutter	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-0369-3331	Guide Sleeve for Drill	1
KL-1383-2231	Pilot Drill, Ø 7.1 mm for M8x1	1
KL-1383-2232	Screw Tap, M8x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-0369-334	Puller for Glow Plug Body	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-0369-3361	Guide Sleeve for Cleaning Tool	1
KL-0369-3362	Cleaning Tool, Ø 7/4.8mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3390	Plastic Storage Case	1





KL-1383-20 K

Glow Plug Tool Set, PSA 2.0

Suitable for use on the PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines, as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo vehicles etc.

The KL-1383-20 K glow plug tool set is indispensable for the accurate removal and drilling out of damaged glow plugs and for retapping the original M10x1 thread. It also allows for the repair of a damaged M10x1 glow plug retaining thread by drilling it up to M12x1. The new glow plug along with a threaded sleeve (M12x1 to M10x1) can then be screwed into the cylinder head.

Scope of Description:

KL-1383-20 K Glow Plug Tool Set, PSA 2.0

Part No.	Description	Qty
KL-1383-201	Compressed Air Adaptor for Injector Nozzle Bore Ø 17.1mm	1
KL-1383-202	Base Plate with Nuts	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2041	Guide Sleeve for Drill	1
KL-1383-2042	Set of Threaded Sleeves, M10x1, 26mm long (10-piece)	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-1383-205	Puller Kit for Glow Plug Body	1
KL-1383-206	Cleaning Tool Set for Glow Plug Channel	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-2090	Plastic Storage Case	1

6



KL-1383-21 K

Glow Plug Tool Set, Peugeot/Citroën

Suitable for use on PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

The KL-1383-21 K glow plug tool set is indispensable for the accurate removal and drilling out of damaged glow plugs and retapping the original M10x1 thread. The new glow plug along with a threaded sleeve (M12x1 to M10x1) can then be screwed into the cylinder head.

Scope of Delivery:

KL-1383-21 K Glow Plug Tool Set, Peugeot/Citroën

Part No.	Description	Qty
KL-1383-202	Base Plate with Nuts	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2041	Guide Sleeve for Drill	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1 thread	1
KL-0283-7022	Screw Tap, M10x1	1
KL-1383-205	Puller Kit for Glow Plug Body	1
KL-1383-206	Cleaning Tool Kit for Glow Plug Channel	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-2090	Plastic Storage Case	1

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 100 CODE:2641232

Torque Wrench Dremaster 20-100Nm



7 R - Combination Ratchet Spanner



KL-0369-309 K Guide Sleeve Set, PSA

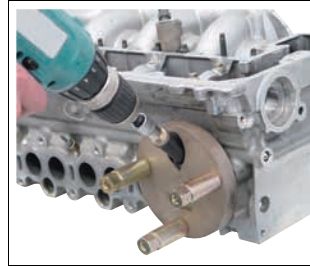
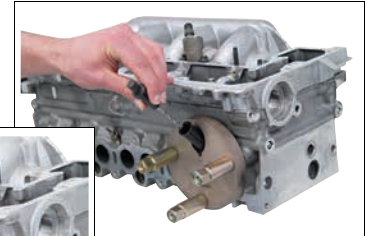
Applicable to PSA 2.0 (110bhp, 135bhp) [DW10] HDI TwinCam engines as found in Peugeot, Citroën etc.

This set complements our glow plug tool sets **KL-1383-20 K** and **KL-1383-21 K**. The guide sleeve set allows the user to mill off the central electrode from broken-off glow plugs. It is used in conjunction with the glow plug tool set **KL-1383-20 K** or **KL-1383-21 K**.

Scope of Delivery:

KL-0369-309 K Guide Sleeve Set, PSA

Part No.	Description	Qty
KL-0369-3071	Guide Sleeve, Ø 17x76mm	1
KL-0369-3072	Guide Sleeve, Ø 17x60mm	1
KL-0369-3073	Guide Sleeve, Ø 17x41mm	1
KL-0369-3081	Retaining Sleeve for Ø 17mm	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0369-3079	Plastic Storage Case with Insert	1



KL-1383-20-1 K Upgrade Kit for KL-1383-22 K to form KL-1383-20 K, PSA 2.0

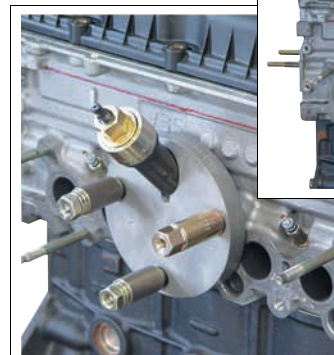
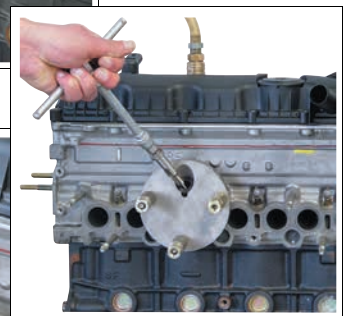
Suitable for use on the PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

The **KL-1383-20-1 K** upgrade kit is designed to complement our **KL-1383-22 K** glow plug tool set, making it suitable also for use on the PSA 2.0 (110bhp, 135bhp) HDI Diesel engines as installed in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc. (engine code: DW10).

Scope of Delivery:

KL-1383-20-1 K Upgrade Kit for KL-1383-22 K to form KL-1383-20 K, PSA 2.0

Part No.	Description	Qty
KL-1383-201	Compressed Air Adaptor for Injector Nozzle Bore, Ø 17.1mm	1
KL-1383-202	Base Plate with Nuts	1
KL-1383-2041	Guide Sleeve for Drill	1
KL-1383-2042	Set of Threaded Sleeves M10x1, 26mm long (10 units)	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-1383-2051	Guide Sleeve for Puller	1
KL-1383-2052	Puller Bolt, 1/4"-20 UNC, 185mm long	1
KL-0369-3050	Puller (Base Tool)	1
KL-0369-3056	Screw Tap, 1/4"-20 UNC, with Drill Bit	1
KL-1383-2061	Cleaning Tool, Ø 5.8mm	1
KL-1383-2062	Guide Sleeve for Cleaning Tool (Ø 5.8mm)	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-1383-2090	Plastic Storage Case	1





KL-1383-22 K

(Patented)

Glow Plug Tool Set, PSA 2.2

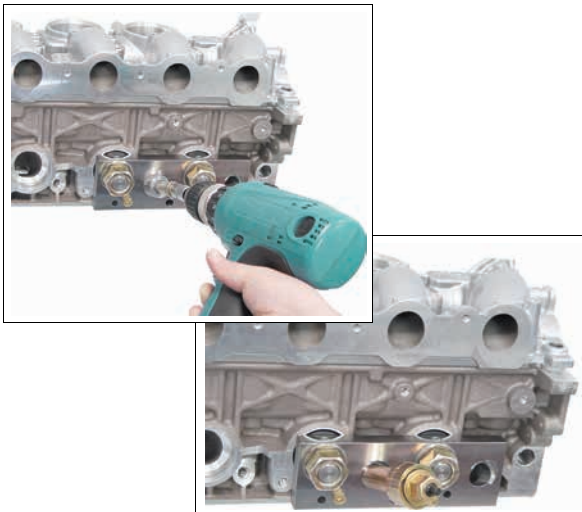
Suitable for use on PSA 2.2 16V [DW12] HDI Diesel engines as found in Peugeot, Citroën, Ford, Fiat, Lancia, Jaguar etc.

The **KL-1383-22 K** glow plug tool set enables the accurate removal respectively drilling out of damaged glow plugs, as well as re-tapping the original M8x1 thread. It also allows the user to repair a damaged M8x1 glow plug retaining thread by drilling it up to M10x1. Then, a new glow plug along with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor that comes with the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Scope of Delivery:

KL-1383-22 K Glow Plug Tool Set, PSA 2.2

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1383-221	Base Plate with Bolt	1
KL-1383-2221	Guide Sleeve (long) for Milling Cutter	1
KL-1383-2222	Guide Sleeve for Milling Cutter	1
KL-4007-2510	Adaptor for Power Drill, 3/8", Square Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2233	Guide Sleeve for Drill	1
KL-1383-2231	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1383-2232	Screw Tap, M8x1	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-1383-224	Puller Tool for Glow Plug Body	1
KL-1383-225	Compressed Air Adaptor for Injection Nozzle Bore, PSA 2.2	1
KL-1383-2261	Guide Sleeve for Cleaning Tool	1
KL-1383-2262	Cleaning Tool, Ø 6.8/5.2mm	1
KL-1383-2290	Plastic Storage Case	1



6



KL-1383-22-1 K

(Patented)

Upgrade Kit (HDI) for KL-1383-20 K, PSA 2.2

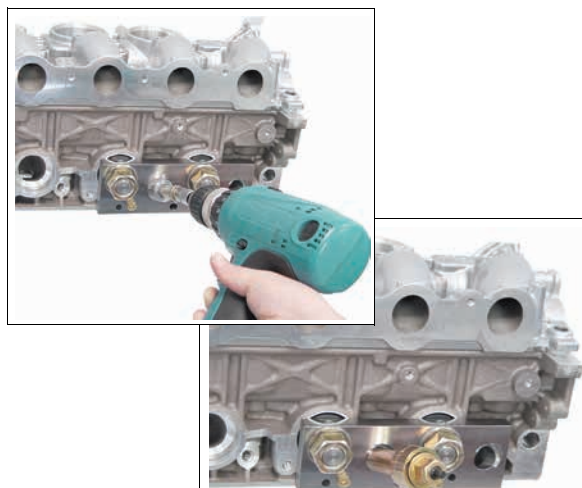
Suitable for use on PSA 2.2 16 V [DW12] HDI Diesel engines as found in Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.

The **KL-1383-22-1 K** tool kit upgrades our **KL-1383-20 K** glow plug tool set so that it also covers the PSA 2.2 16V [DW12] HDI Diesel engines installed in Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.

Scope of Delivery:

KL-1383-22-1 K Upgrade kit (HDI) for KL-1383-20 K, PSA 2.2

Part No.	Description	Qty
KL-1383-221	Base Plate with Bolts	1
KL-1383-2221	Guide Sleeve (long) for Milling Cutter	1
KL-1383-2222	Guide Sleeve for Milling Cutter	1
KL-1383-2231	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1383-2233	Guide Sleeve for Drill	1
KL-1383-2232	Screw Tap, M8x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-1383-2241	Screw Tap, No.12-24 UNC, with Drill Bit	1
KL-1383-2242	Puller Bolt, No.12-24 UNC, 165mm long	1
KL-0283-7050	Puller (Base Tool)	1
KL-1383-225	Compressed Air Adaptor for Injector Nozzle Bore, PSA 2.2	1
KL-1383-2261	Guide Sleeve for Cleaning Tool	1
KL-1383-2262	Cleaning Tool, Ø 6.8/5.2mm	1
KL-1383-2290	Plastic Storage Case	1



KL-1383-291 K Thread Cleaning Kit for Glow Plug Retaining Thread M8x1

Suitable for use on PSA 2.2 16V (DW12) and Fiat 2.3 (F1A); 3.0 (F1C, F30 DT) JTD/HDI Diesel engines as installed in Citroën, Peugeot, Ford, Fiat, Jaguar, Lancia, IVECO etc.

The KL-1383-291 K thread cleaning kit enables the removal/drilling out of damaged glow plugs as well as retapping the original M8x1 retaining thread.

Scope of Delivery:

KL-1383-291 K Thread Cleaning Kit for Glow Plug Retaining Thread M8x1

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0369-306	Tool Holder with Square Socket, 2,4-5.5mm	1
KL-4007-2510	Adaptor for Power Drill, 3/8"	1
KL-1683-2051	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1683-2052	Screw Tap, M8x1	1
KL-1383-2241	Screw Tap, 12-24 UNC, with Drill Bit	1
KL-0132-5501	Puller Bolt, No. 12-24 UNC, for Slide Hammer Puller	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0132-5590	Plastic Storage Case	1



KL-1683-20-2 K Upgrade Kit for KL-1383-291 K to form KL-1683-20 K

Suitable for use on Fiat 2.3 (F1A) and 3.0 (F1C, F30 DT) JTD/HDI Diesel engines as found in Fiat Ducato, IVECO Daily, Citroën Jumper, Peugeot Boxer.

The KL-1683-20-2 K upgrade kit is designed to be used with the KL-1383-291 K thread cleaning kit, thus enabling the precise removal/drilling out of damaged glow plugs and re-tapping the original M8x1 thread. It also allows for the repair of damaged M8x1 glow plug retaining threads by drilling up to M10x1. Then, a new glow plug along with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Scope of Delivery:

KL-1683-20-2 K Upgrade Kit for KL-1383-291 K to form KL-1683-20 K

Part No.	Description	Qty
KL-1683-2012	Centring Sleeve	1
KL-1683-201	Base Fitting Strip, 2.3 JTD	1
KL-1683-202	Base Fitting Strip, 3.0 JTD	1
KL-1683-2031	Guide Sleeve for Milling Cutter	1
KL-1683-2032	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1683-2041	Guide Sleeve for Drill	1
KL-1683-2061	Pilot Drill, Ø 9.1mm for M10x1	1
KL-1683-2062	Screw Tap, M10x1	1
KL-1383-2234	Set of Threaded Sleeves M8x1, 16mm long (10-piece)	1
KL-0283-7050	Puller (Base Tool)	1
KL-1683-2071	Support Sleeve for Puller	1
KL-0369-3052	Shoulder Nut	1
KL-1383-2242	Puller Bolt, No.12-24 UNC, 165mm long	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1
KL-1683-2081	Guide Sleeve for Reamer	1
KL-1683-2082	Reamer, Ø 6.9/4.9mm	1
KL-1683-2090 A	Plastic Storage Case	1



6

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet 

7 R - Combination Ratchet Spanner 



KL-1383-292 K Thread Cleaning Kit for Glow Plug Retaining Thread M10x1

Suitable for use on PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

The **KL-1383-292 K** thread cleaning kit enables the removal/drilling out of damaged glow plugs as well as re-tapping the original M10x1 thread.

Scope of Delivery:

KL-1383-292 K Thread Cleaning Kit for Glow Plug Retaining Thread M10x1

Part No.	Description	Qty
KL-4007-2510	Adaptor for Power Drill, 3/8", Square	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-0369-3056	Screw Tap, 1/4"-20 UNC, with Drill Bit	1
KL-0132-5202	Puller Bolt, 1/4"-20 UNC for Slide Hammer Puller	1
KL-0126-221	Flexible Magnetic Lifter	1
KL-0132-5590	Plastic Storage Case	1

KL-1383-22-2 K (Patented) Upgrade Kit for KL-1383-291 K to form KL-1383-22 K

Suitable for use on PSA 2.2 16V [DW12] HDI Diesel engines as installed in Citroën, Ford, Fiat, Jaguar, Lancia, Peugeot etc.

The **KL-1383-22-2 K** upgrade kit is designed to be used with the **KL-1383-291 K** thread cleaning kit, thus enabling the precise removal/drilling out of damaged glow plugs and re-tapping the original M8x1 thread. It also allows for the repair of damaged M8x1 glow plug retaining threads by drilling up to M10x1. Then, a new glow plug along with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, compressed air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Scope of Delivery:

KL-1383-22-2 K Upgrade Kit for KL-1383-291 K to form KL-1383-22 K

Part No.	Description	Qty
KL-1383-221	Base Plate with Bolts	1
KL-1383-2221	Guide Sleeve (long) for Milling Cutter	1
KL-1383-2222	Guide Sleeve for Milling Cutter	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2233	Guide Sleeve for Drill	1
KL-0283-7021	Pilot Drill, Ø 9.1mm for M10x1	1
KL-0283-7022	Screw Tap, M10x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10 units)	1
KL-1383-2242	Puller Bolt, No.12-24 UNC, 165mm long	1
KL-0369-3052	Shoulder Nut	1
KL-0283-7050	Puller (Base Tool)	1
KL-1383-225	Compressed Air Adaptor for Injector Nozzle Bore	1
KL-1383-2261	Guide Sleeve for Reamer	1
KL-1383-2262	Reamer, Ø 6.8/5.2mm	1
KL-1383-2290	Plastic Storage Case	1

6



KL-1383-20-2 K

Upgrade Kit for KL-1383-292 K to form KL-1383-20 K

Suitable for use on PSA 2.0 16V (110bhp, 135bhp) [DW10] HDI Diesel engines as found in Citroën, Ford, Fiat, Lancia, Peugeot, Suzuki, Volvo etc.

The **KL-1383-20-2 K** upgrade kit is designed to be used with the **KL-1383-292 K** thread cleaning kit, thus enabling the precise removal and drilling out of damaged glow plugs and re-tapping the original M10x1 thread. It also allows for the repair of damaged M10x1 glow plug retaining threads by drilling up to M12x1. The new glow plug along with a threaded sleeve (M12x1 to M10x1) can then be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Scope of Delivery: KL-1383-20-2 K Upgrade Kit for KL-1383-292 K

Part No.	Description	Qty
KL-1383-201	Compressed Air Adaptor for Injector Nozzle Bore Ø 17.1mm	1
KL-1383-202	Base Plate with Nuts	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2041	Guide Sleeve for Drill	1
KL-1383-2042	Set of Threaded Sleeves, M10x1, 26mm long	1
KL-0283-7031	Pilot Drill, Ø 11.1mm for M12x1	1
KL-0283-7032	Screw Tap, M12x1	1
KL-0369-3050	Puller (Base Tool)	1
KL-1383-2051	Guide Sleeve for Puller Tool	1
KL-1383-2052	Puller Bolt, 1/4"-20 UNC, 185mm long	1
KL-1383-206	Cleaning Tool Set for Glow Plug Channel	1
KL-1383-2090	Plastic Storage Case	1



KL-1383-24 K

(Patented)

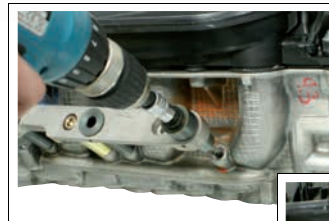
Glow Plug Tool Set, PSA 2.7 HDI and 3.0 HDI

Suitable for use on PSA 2.7 HDI and 3.0 HDI V6 Diesel engines as fitted to: Citroën C5, C6 [engine codes: DT17TED (UHZ), DT17TED4 (UHZ), DT20C]; Peugeot 407, 607 [engine codes: DT17TED (UHZ), DT17TED4 (UHZ)]; Jaguar S-Type, XJ [engine codes: 7B, 7G, AJ-V6D]; and Land Rover Discovery III, Range Rover Sport [engine code: 276DT].

The **KL-1383-24 K** glow plug tool set enables the accurate removal/drilling out of damaged glow plugs and recutting the original M8x1 thread. It also allows the user to repair a damaged M8x1 glow plug retaining thread by drilling it up to M10x1. Then, a new glow plug together with a threaded sleeve (M10x1 to M8x1) is screwed into the cylinder head. Impurities are prevented from entering the combustion chamber by using the suction device for cleaning tool that comes with the kit.

Scope of Delivery: KL-1383-24 K Glow Plug Tool Set, PSA 2.7 HDI and 3.0 HDI

Part No.	Description	Qty
KL-1383-241	Base Fitting Strip with Sleeves	1
KL-1383-246	Glow Plug Tube Puller	1
KL-1383-248	Cleaning Tool Set with Bellows	1
KL-1383-247	Suction Device for Cleaning Tool	1
KL-0369-306	Tool Holder with Square Socket, 2.4-5.5mm	1
KL-4007-2510	Adaptor for Power Drill, 3/8", square	1
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1383-203	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1383-2421	Guide Sleeve (long) for Milling Cutter	1
KL-1383-2422	Guide Sleeve (short) for Milling Cutter	1
KL-1383-2431	Guide Sleeve for Drill	1
KL-1383-2451	Pilot Drill, Ø 9.1mm for M10x1	1
KL-1383-2452	Screw Tap, M10x1	1
KL-1383-2441	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1383-2442	Screw Tap, M8x1	1
KL-1383-2234	Set of Threaded Sleeves, M8x1, 16mm long (10-piece)	1
KL-1383-2490	Plastic Storage Case	1





KL-1683-20 K

Glow Plug Tool Set, Fiat 2.3 JTD and 3.0 JTD

Suitable for use on Fiat 2.3 (F1A) and 3.0 (F1C, F30 DT) JTD/HDI Common Rail Diesel engines with an M8x1 glow plug retaining thread as fitted to Fiat Ducato, IVECO Daily, Citroën Jumper, Peugeot Boxer.

The **KL-1683-20 K** glow plug tool set enables the accurate removal/drilling out of damaged glow plugs and re-tapping the original M8x1 thread. It also allows the user to repair a damaged M8x1 glow plug retaining thread by drilling it up to M10x1. Then, a new glow plug together with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Technical Data:

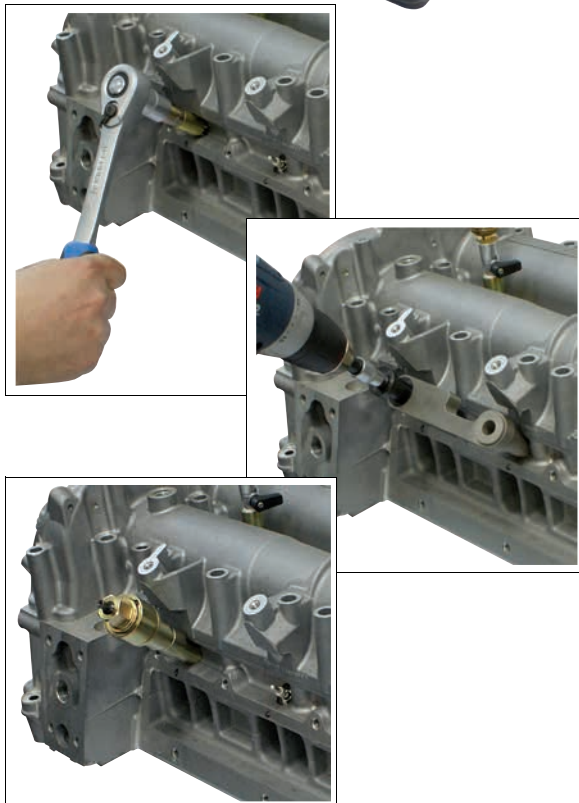
For glow plug thread:	M8x1
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Scope of Delivery: KL-1683-20 K Glow Plug Tool Set, Fiat 2.3 JTD and 3.0 JTD

Part No.	Description	Qty
KL-1683-200 K	Glow Plug Tool Set, Fiat 2.3 JTD and 3.0 JTD	1
KL-1683-2031	Guide Sleeve for Milling Cutter	1
KL-1683-2032	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1683-2061	Pilot Drill, Ø 9.1mm for M10x1	1
KL-1683-2062	Screw Tap, M10x1	1
KL-1683-2063	Set of Threaded Sleeves, M8x1, 13mm long (10-pc.)	1
KL-0369-56 B	Compressed Air Adaptor for injector Nozzle Bore, CDI	1
KL-0126-221	Flexible Magnetic Lifter	1

Scope of Delivery: KL-1683-200 K Glow Plug Tool Set, Fiat 2.3 JTD and 3.0 JTD

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1683-2012	Centring Sleeve	1
KL-1683-201	Base Fitting Rail, 2.3 JTD	1
KL-1683-202	Base Fitting Rail, 3.0 JTD	1
KL-4007-2510	Adaptor for Power Drill, 3/8"	1
KL-1683-2041	Guide Sleeve for Drill	1
KL-1683-2051	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1683-2052	Screw Tap M8x1	1
KL-0369-306	Tool Holder with Square Socket, 2.4 - 5.5mm	1
KL-1683-207	Puller Kit for Glow Plug Body	1
KL-1683-2081	Guide Sleeve for Cleaning Tool	1
KL-1683-2082	Cleaning Tool, Ø 6.9/4.9mm	1
KL-1683-2090 A	Plastic Storage Case	1



6

KL-1683-21-1

Upgrade Kit for KL-1683-20 K

Suitable for use on Fiat, Alfa and Lancia 1.3 JTD (Euro 4) Common Rail Diesel engines having an M8x1 glow plug retaining thread, as fitted to:

Fiat 500/500C, Doblo, Doblo Cargo, Doblo Work Up, Fiorino, Grande Punto, Idea, Linea, Panda, Punto, Punto Evo, Qubo, Strada Pick-up; Alfa MiTo and Lancia Musa, Ypsilon. (Engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000)

The **KL-1683-21-1** upgrade kit is designed to complement the glow plug tool set **KL-1683-20 K** so that the latter also covers the applications of the **KL-1683-21 K** glow plug tool set (Fiat 1.3 JTD).

Scope of Delivery: KL-1683-21-1 Upgrade Kit for KL-1683-20 K

Part No.	Description	Qty
KL-1683-211	Base Plate	1
KL-1683-2112	Guide Sleeve	2
KL-1683-212	Reamer, Ø 6.9/4.9mm	1



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



7 R - Combination Ratchet Spanner



KL-1683-21 K Glow Plug Tool Set, Fiat 1.3 JTD

Suitable for use on Fiat, Alfa and Lancia 1.3 JTD (Euro 4) Common Rail Diesel engines having an M8x1 glow plug retaining thread, as fitted to: Fiat 500/500C, Doblo, Doblo Cargo, Doblo Work Up, Fiorino, Grande Punto, Idea, Linea, Panda, Punto, Punto Evo, Qubo, Strada Pick-up; Alfa MiTo and Lancia Musa, Ypsilon. (Engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000)

The KL-1683-21 K glow plug tool set enables the accurate removal/drilling out of damaged glow plugs and re-tapping the original M8x1 thread. It also allows the user to repair a damaged M8x1 glow plug retaining thread by drilling it up to M10x1. Then, a new glow plug together with a threaded sleeve (M10x1 to M8x1) can be screwed into the cylinder head. With the aid of the compressed air adaptor included in the set, air can be injected into the combustion chamber so as to prevent dirt and swarf from entering the latter.

Technical Data:

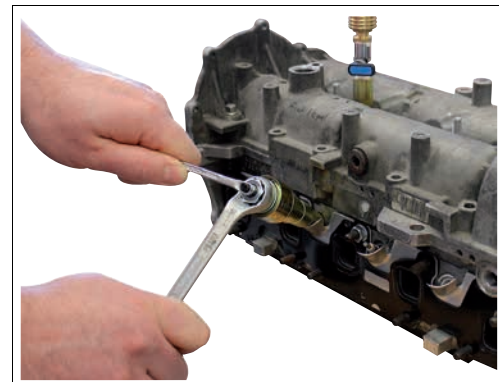
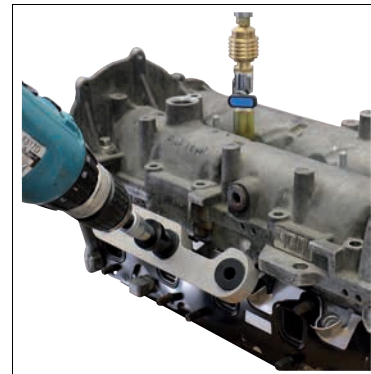
For glow plug thread:	M8x1
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Scope of Delivery: KL-1683-21 K Glow Plug Tool Set, Fiat 1.3 JTD

Part No.	Description	Qty
KL-1683-210 K	Glow Plug Tool Set, Fiat 1.3 JTD	1
KL-1683-2032	Milling Cutter for Glow Plug Electrode	1
KL-1383-2031	Milling Cutter for Glow Plug Electrode (Spare)	1
KL-1683-2031	Guide Sleeve for Milling Cutter	1
KL-1683-2061	Pilot Drill, Ø 9.1mm for M10	1
KL-1683-2062	Screw Tap, M10x1	1
KL-1683-2063	Set of Threaded Sleeves M8x1, 13mm long, (10-pc.)	1
KL-0369-56 B	Compressed Air Adaptor, M10x1	1

Scope of Delivery: KL-1683-210 K Glow Plug Tool Set, Fiat 1.3 JTD

Part No.	Description	Qty
KL-0369-300 A	Roller-Type Stud Removal Socket	1
KL-1683-2112	Guide Sleeve	2
KL-1683-211	Base Plate	1
KL-1683-2041	Guide Sleeve for Drill	1
KL-4007-2510	Adaptor for Power Drill 3/8"	1
KL-1683-2051	Pilot Drill, Ø 7.1mm for M8x1	1
KL-1683-2052	Screw Tap, M8x1	1
KL-0369-306	Tool Holder with Square Socket	1
KL-1683-207	Puller Kit for Glow Plug Body	1
KL-1683-2081	Guide Sleeve for Reamer	1
KL-1683-212	Reamer, Ø 6.9/4.9mm	1
KL-0126-221	Flexible Magnetic Lifter	1
42 KEL 2,5	Hex Socket Key, Size (waf) 2.5mm	1
KL-1683-2090 A	Plastic Storage Case	1



KL-1683-20-1 Upgrade Kit for KL-1683-21 K

Suitable for use on Fiat 2.3 (F1A) and 3.0 (F1C, F30 DT) JTD/HDI Common Rail Diesel engines having an M8x1 glow plug retaining thread as fitted to Fiat Ducato, IVECO Daily, Citroën Jumper, Peugeot Boxer.

The KL-1683-20-1 is designed to upgrade the KL-1683-21 K glow plug tool set (Fiat 1.3 JTD) so that the latter also covers the applications of the KL-1683-20 K glow plug tool set (2.3 JTD and 3.0 JTD).

Scope of Delivery: KL-1683-20-1 Upgrade Kit for KL-1683-21 K

Part No.	Description	Qty
KL-1683-201	Base Fitting Strip, 2.3 JTD	1
KL-1683-202	Base Fitting Strip, 3.0 JTD	1
KL-1683-2012	Centring Sleeve	1
KL-1683-2082	Cleaning Tool, Ø 6.9/4.9mm	1





KL-0369-900 KA

Set of Glow Plug/Spark Plug Sockets With Joint (8-Piece)

Universal application.

An indispensable tool set for the professional and damage-free removal and installation of spark plugs, glow plugs as well as 'PSG' glow plugs (pressure sensor glow plugs). The sockets are provided with a retaining rubber on the inside designed to prevent the spark plug/glow plug from dropping. The long and slim design of the jointed sockets allows even deep-seated glow plugs/spark plugs that are difficult to reach to be removed quickly and with ease.

Using a conventional socket risks damaging the 'PSG' glow plug during removal/installation. When removing/installing 'PSG' glow plugs, protective caps (included in the tool set) must always be used in order to protect the plug connector against dirt and electrostatic charging.

Scope of Delivery: KL-0369-900 KA Set of Glow Plug/Spark Plug Sockets

Part No.	Description	Qty
KL-0369-9001	Glow Plug Socket with Joint, Size (waf) 8mm, long	1
KL-0369-9002	Glow Plug Socket with Joint, Size (waf) 9mm, long	1
KL-0369-9003	Glow Plug Socket with Joint, Size (waf) 10mm, long	1
KL-0369-9004	Glow Plug Socket with Joint, Size (waf) 12mm, long	1
KL-0369-9005	Spark Plug Socket with Joint, Size (waf) 14mm, long	1
KL-0369-9006	Spark Plug Socket with Joint, Size (waf) 16mm, long	1
KL-0369-9007	Glow Plug Socket with Joint, Size (waf) 12mm, for 'PSG' Glow Plug	1
KL-0369-9007-10	Protective Cap for 'PSG' Glow Plug	5
KL-0369-9090 A	Plastic Storage Case	1

Technical Data:

Size (waf):	8, 9, 10, 12, 14, 16mm
Drive:	3/8"
Length:	85mm
Weight:	560g



KL-0369-9007

Glow Plug Socket with Joint, Size (waf) 12mm, for 'PSG' Glow Plug

Applicable to VW-Audi, Seat, Škoda and Opel/Vauxhall Common Rail Diesel engines with 'PSG' glow plugs (BERU PSG001, PSG002, PSG004). For example, fitted to Audi A1 (8X), A3 (8V), A4 (8K), A5 (8T, 8F), A6 (4G), A7 (4G), A8 (4H), Q3 (8U), Q7 (4L); VW Beetle (5C), Golf Sportsvan (AM), Golf VI (5K, AJ), Golf VII (5G, BE, BA), Jetta III (1K), Jetta IV (162), Passat (3G), Polo (6R, 6C), Scirocco (137, 138), Touareg (7L), Touareg (7P), XL1; Seat Leon (5F); Škoda Fabia III (NJ), Octavia III (5E); Opel/Vauxhall Insignia (G06), Astra J (P10).

An indispensable tool for the professional and damage-free removal and installation of 'PSG' glow plugs (pressure sensor glow plugs). The socket is provided with a retaining rubber on the inside designed to prevent the 'PSG' glow plug from dropping. Using a conventional socket risks damaging the 'PSG' glow plug during removal/installation.

Note:

When removing/installing 'PSG' glow plugs, protective caps must always be used in order to protect the plug connector against dirt and electrostatic charging. These caps can be ordered separately as accessories (KL-0369-9007-10 Set of Protective Caps).

Technical Data:

Drive:	3/8"
Size (waf):	12mm



Technical Data:

Drive:	3/8"
Length:	63mm

KL-4013-2108

Socket, Size (waf) 8mm

Suitable for use on VW-Audi 2.0 TDI engines (engine code: BKP, etc.) as found in VW Passat 3C.

Designed to remove and install glow plugs. On 2.0 TDI engines with engine code BKP, etc., the glow plug is fitted on the top in the cylinder head under the valve cover. For this type of glow plugs, a conventional articulated socket cannot be used as it will touch the camshaft.



Technical Data:

Drive:	3/8"
Length:	63mm

KL-4013-2110

Socket, Size (waf) 10mm

Suitable for use on 1.5 dCi engines (engine code: K9K) fitted to Renault, Dacia, Nissan.

Designed to remove and install glow plugs.

Accessories (on demand):

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm

4549-05 CODE:1545140

Torque Wrench TORCOFIX K 3/8" 5-50Nm



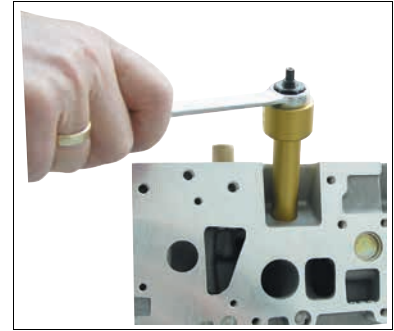
KL-0369-201 A Glow Plug Removal Tool, Mercedes

Universally applicable to Diesel engines having an M10x1 glow plug retaining thread and glow plugs with size (waf) of 10mm.
The ideal tool for, e.g., Mercedes CDI engines OM611, OM612, OM613, OM646*, OM647 and OM648 etc. (*except OM646 EVO)

For extracting glow plugs that have been loosened, but are still stuck in their bore holes.

Technical Data:

Length:	135mm
Drive:	waf 19mm



KL-0132-53 K Thread Repair Kit for Glow Plug Thread M8x1

For example, applicable to VW-Audi, BMW, Mercedes, Nissan, Renault etc.

If the thread in the cylinder head is damaged, special threaded inserts (internal thread M8x1) can be inserted with the aid of the thread repair kit KL-0132-53 K.

Scope of Delivery:

KL-0132-53 K Thread Repair Kit for Glow Plug Thread M8x1

Part No.	Description	Qty
KL-0132-5301	Thread Cleaning Tool, M8x1	1
KL-0132-5304	Threaded Inserts, M8x1, 10mm long (10 pieces)	1
KL-0132-5302	Special Drill for Threaded Inserts, M8x1	1
KL-0132-5303	Special Tap for Threaded Inserts, M8x1	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



KL-0132-51 K Thread Repair Kit for Glow Plug Thread M10x1

For example, applicable to VW-Audi, BMW, Mercedes, Nissan, Renault etc.

If the thread in the cylinder head is damaged, special threaded inserts (internal thread M10x1) can be inserted with the aid of the thread repair kit KL-0132-51 K.

Technical Data:

Size (waf):	8, 9, 10, 12, 14, 16mm
Drive:	3/8"
Length:	80mm
Weight:	560g

Scope of Delivery:

KL-0132-51 K Thread Repair Kit for glow plug thread M10x1

Part No.	Description	Qty
KL-0132-511-1	Thread Cleaning Tool, M10x1	1
KL-0132-512 A	Threaded Inserts, M10x1, Length 10mm (10 pieces)	1
KL-0132-513-1	Special Drill for Threaded Inserts, M10x1	1
KL-0132-514-1	Special Tap for Threaded Inserts, M10x1	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1





KL-0132-54 K

Thread Repair Kit for Glow Plug Thread M10x1.25

This tool set allows for the fast and easy cleaning or repair of glow plug threads on aluminium cylinder heads.

Dirty threads can be cleaned and re-tapped using our thread cleaning tool. Damaged threads can be drilled up with the aid of the special drill. Then, a new M12x1.25 thread is cut for retaining threaded inserts with an M10x1.25 internal thread.

Technical Data:

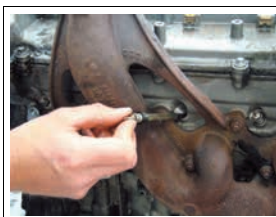
Drive:	3/8"
For glow plug thread:	M10x1.25

Scope of Delivery:

KL-0132-54 K Thread Repair Kit for Glow Plug Thread M10x1.25

Part No.	Description	Qty
KL-0132-5401	Thread Cleaning Tool, M10x1.25	1
KL-0132-5402	Special Drill for Threaded Inserts, M10x1.25	1
KL-0132-5403	Special Tap for Threaded Inserts, M10x1.25	1
KL-0132-5404	Threaded Inserts, M10x1.25, 10mm long (10 pcs)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1

6



KL-0132-5 K

Thread Repair Kit for Glow Plug Thread M12x1.25

For example, applicable to VW-Audi, Mercedes, Toyota etc.

If the thread in the cylinder head is damaged, special threaded inserts (internal thread M12x1.25) can be inserted with the aid of the thread repair kit **KL-0132-5 K**.

Scope of Delivery:

KL-0132-5 K Thread Repair Kit for Glow Plug Thread M12x1.25

Part No.	Description	Qty
KL-0132-501-1	Special Drill for Threaded Inserts, M12x1.25	1
KL-0132-502-1	Special Tap for Threaded Inserts, M12x1.25	1
KL-0132-412	Threaded Inserts, 12x1.25, Length 11mm (10 pieces)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



KL-0132-41 K

Thread Repair Kit for Spark Plug Thread M12x1.25

This thread repair kit is intended for the repair of spark plug threads on aluminium cylinder heads. Using the special tap that comes with the kit, the damaged thread can be drilled out and a new M14x1.25 thread can be recut at the same time to retain threaded inserts with an internal thread of M12x1.25.

Scope of Delivery:

KL-0132-41 K Thread Repair Kit for Spark Plug Thread M12x1.25

Part No.	Description	Qty
KL-0132-411-1	Special Tap (for M12x1.25)	1
KL-0132-412	Threaded Inserts, M12x1.25, Length 11mm (10 pieces)	1
KL-0132-413	Threaded Inserts, M12x1.25, Length 17.5mm (10 pieces)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1

KL-0132-42 K Thread Repair Kit for Spark Plug Thread M14x1.25

This thread repair kit is intended for the repair of spark plug threads on aluminium cylinder heads.

Using the special tap that comes with the kit, the damaged thread can be drilled out and a new M16x1.25 thread can be recut at the same time for retaining threaded inserts with an interna thread of M14x1.25.

Scope of Delivery:

KL-0132-42 K Thread Repair Kit for Spark Plug Thread M14x1.25

Part No.	Description	Qty
KL-0132-421-1	Special Tap for M14x1.25	1
KL-0132-422	Threaded Inserts, M14x1.25, Length 11mm (10 pieces)	1
KL-0132-423	Threaded Inserts, M14x1.25, Length 17.5mm (10 pieces)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



KL-0132-590 KA Thread Repair Kit

Applicable to glow plug threads M10x1 and M12x1.25 as well as for oil sump plug thread M14x1.5 and M16x1.5; also suitable for injector nozzle fixing screw thread M6.

This tool set is indispensable for the quick and easy cleaning/repair of threads on aluminium cylinder heads and aluminium oil sumps.

Field of application: Aluminium Cylinder Head:

Glow plug thread: The dirty thread M10x1 is cleaned and recut using the thread cleaning tool.

The damaged thread is drilled up by means of the special drill. Then, with the aid of the special tap, a new thread with M12x1 or M14x1.25 is cut to retain the threaded inserts with an internal thread of M10x1 or M12x1.25.

Injector nozzle fixing screw thread: The M6 threaded inserts are screwed into the injector nozzle fixing screw thread that has been drilled up to M8x1 for the repair.

Field of application: Aluminium Oil Sump:

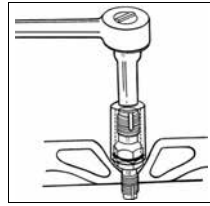
With the aid of the special tap (M14x1.5 or M16x1.5), the old thread is drilled out and a new thread is being cut at the same time to retain the sump screw plug.

Scope of Delivery:

KL-0132-590 KA Thread Repair Kit

Part No.	Description	Qty
KL-0132-583	Set of Threaded Sleeves, M6, 20mm long (10-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" Drive	1
KL-0132-481-1	Special Tap for M14x1.5	1
KL-0132-482	Set of Sump Screw Plugs (5-pc.)	1
KL-0132-484	Set of Sealing Rings (Aluminium), Ø 15x20x1.3mm (5-pc.)	1
KL-0132-4901	Special Tap for M16x1.5	1
KL-0132-4902	Set of Sump Screw Plugs, M17x1.5 (5-pc.)	1
KL-0132-4903	Set of Sealing Rings (Aluminium), Ø 24x17.1x1.5mm (5-pc.)	1
KL-0132-501-1	Special Drill for Threaded Inserts, M12x1.25	1
KL-0132-502-1	Special Tap for Threaded Inserts, M12x1.25	1
KL-0132-412	Threaded Inserts, M12x1.25x11 (10 units)	1
KL-0132-511-1	Thread Cleaning Tool, M10x1	1
KL-0132-512 A	Threaded Inserts, M10x1x10 (10 units)	1
KL-0132-513-1	Special Drill for Threaded Inserts, M10x1	1
KL-0132-514-1	Special Tap for Threaded Inserts, M10x1	1
KL-0132-5990	Plastic Storage Cse	1

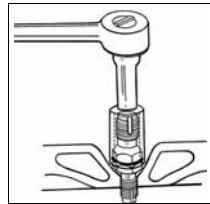




KL-0127-2206

Screw Tap

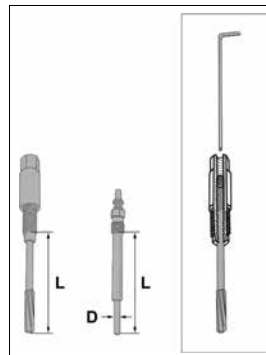
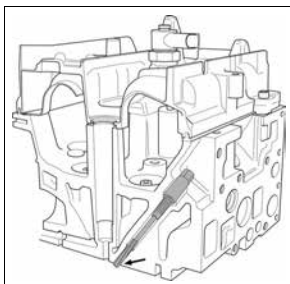
Designed to clean glow plug threads with dimensions M10x1.0 and M12x1.25.



KL-0127-2207

Screw Tap

Designed to clean spark plug threads with dimensions M14x1.25 and M18x1.5.



KL-0369-25 KA

(Patented)

Reamer Set (adjustable)

for Glow Plug Aperture, in a Plastic Storage Case

Universally suitable for use on Diesel engines with either an M8x1, M9x1 or M10x1 glow plug thread. The ideal tool set for BMW 1.6 and 2.0 Diesel engines. For example, fitted to BMW 1 Series (E81/E82/E87/E88), 3 Series (E90/E91/E92/E93), 5 Series (E60/E61/F10), X1 (E84), X3 (E83); MiniHatch (R56), Countryman (R60), Clubman (R55), Coupé (R58).

This tool set is designed to clean glow plug apertures and glow plug retaining threads. Thanks to the possibility to combine the different holders (glow plug retaining threads) with the necessary reamers (glow plug aperture Ø) and to precisely adjust the length of the reamers as needed, this tool set is virtually universal in its field of application, since the reamers can always be accurately adapted to the respective engine type. Coking deposits are carefully and effectively removed from glow plug retaining threads and glow plug apertures - thanks to the special design of the tool and the cleaning groove in the holder.

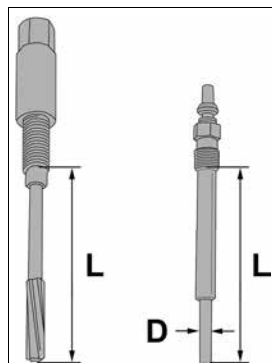
Technical Data:

Weight:	400g
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Scope of Delivery: KL-0369-25 KA Reamer Set (adjustable) for Glow Plug Aperture

Part No.	Description	Qty
KL-0369-2510 A	Holder, M8x1, with Set Screw	1
KL-0369-2610 A	Holder, M9x1, with Set Screw	1
KL-0369-2710 A	Holder, M10x1, with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm (Glow plug Ø D = Ø 4.0mm)	1
KL-0369-2522 A	Reamer, Ø 5.2mm (Glow plug Ø D = Ø 4.4mm)	1
KL-0369-2732 A	Reamer, Ø 5.8mm (Glow plug Ø D = Ø 5.0mm)	1
KL-0369-2590	Plastic Storage Case	1

(Engine codes: N47; N47 C16K1; N47 C16U1; N47 C20K1; N47 C20U1; N47 D20A; N47 D20C; N47 D20D; N47 D20K0; N47 D20K1; N47 D20O0; N47 D20O1; N47 D20U0; N47 D20U1; N47S D20B; N47S D20D; N47S D20T0; N47T D20K1; N47T D20O1; N47T D20U1)



KL-0369-251 A

(Patented)

Reamer, Ø 4.8mm, with Holder, M8x1 (adjustable)

Suitable for use on the following Diesel engines: Fiat, Alfa Romeo, Lancia 2.3 JTD (F1AE0481C), 1.3 D/JTD (188A9.000, 169 A1.000, 188 A8.000, 188 A9.000, 199 A2.000, 199 A3.000, 199 A9.000, 199 B1.000, 199 B4.000, 223 A9.000, 263 A2.000); Opel/Vauxhall 1.3 (Z13DT, A13DTC, D13A, Y13DT, Z13DT, Z13DTH, Z13DTJ); Mercedes (OM642, OM640); Smart (OM639); Ford 1.3 TDCi (FD4); Volvo 2.4 D (D 5244 T2); VW AG 2.0 TDI (AZV, BKD, BDJ); PSA 2.7 HDI (DT 17) and Suzuki 1.3 DDiS (Z13DT, D13A, Z13DTJ).

Scope of Delivery: KL-0369-251 A Reamer, Ø 4.8 mm, with Holder, M8x1

Part No.	Description	Qty
KL-0369-2510 A	Holder, M8x1, with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm	1

Technical Data:

Length L:	70-108mm
D measured (at the glow plug):	Ø 4.0mm

KL-0369-252 A (Patented)
Reamer, Ø 5.2mm, with Holder, M8x1
(adjustable)

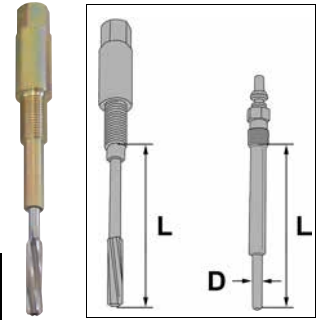
For example, suitable for use on the following Diesel engines: PSA 1.4 HDI (DV4), PSA 1.6 HDI (DV6), PSA 2.2 HDI (DW12), Ford 1.6 (F6J).

Scope of Delivery: KL-0369-252 A Reamer, Ø 5.2mm, with Holder, M8x1

Part No.	Description	Qty
KL-0369-2510 A	Holder, M8x1, with Set Screw	1
KL-0369-2522 A	Reamer, Ø 5.2mm	1

Technical Data:

Length L:	50-83mm
D measured (at glow plug):	Ø 4.4mm



KL-0369-261 A (Patented)
Reamer, Ø 4.8mm, with Holder, M9x1
(adjustable)

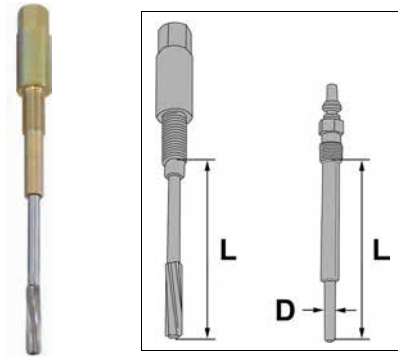
For example, suitable for use on the following Diesel engines: Alfa Romeo, Fiat, Lancia, Opel/Vauxhall, Saab 1.6, 1.9, 2.0 and 2.4. (Engine codes: 192 A5.000, 198 A2.000, 198 A3.000, 198 A5.000, 198 A6.000, 198 A8.000, 250 A1.000, 263 A1.000, 263 A3.000, 263 A4.000, 350 A2.000, 350 A2.000, 350 A3.000, 841 G.000, 841 H.000, 844 A1.000, 844 A2.000, 844 A2.000, 937 A5.000, 939 A2.000, 939 A3.000, 939 A8.000, 939 B3.000, 939 B4.000, 939 B5.000, 940 A3.000, 940 A4.000, 940 A5.000, 955 A3.000, 955 A4.000, A16FD, A16FDH, A16FDL, A19DTR, A20ATJ, A20DT, A20DTC, A20DTH, A20DTR, A20DTR, D20AA, Y20DTJ, Z19DTH, Z19DTR, Z20DTJ)

Scope of Delivery: KL-0369-261 A Reamer, Ø 4.8mm, with Holder, M9x1

Part No.	Description	Qty
KL-0369-2610 A	Holder, M9x1 with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm	1

Technical Data:

Length L:	70-108mm
D measured (at glow plug):	Ø 4.0mm



KL-0369-271 A (Patented)
Reamer, Ø 4.8mm, with Holder, M10x1
(adjustable)

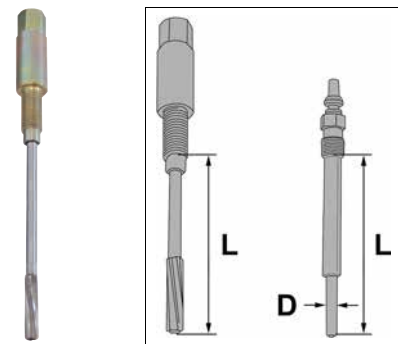
For example, suitable for use on the following VW-Audi Diesel engines: 2.7 TDI V6 (BPP, BSG), 3.0 TDI V6 (BKN, BKS, BMK, BNG, BUN, BUG); and BMW Diesel engines: 1.6 and 2.0. For example, fitted to BMW 1 Series (E81/E82/E87/E88), 3 Series (E90/E91/E92/E93), 5 Series (E60/E61/F10), X1 (E84), X3 (E83); MiniHatch (R56), Countryman (R60), Clubman (R55), Coupé (R58). (Engine codes: N47; N47 C16K1; N47 C16U1; N47 C20K1; N47 C20U1; N47 D20A; N47 D20C; N47 D20D; N47 D20K0; N47 D20K1; N47 D20O0; N47 D20O1; N47 D20U0; N47 D20U1; N47S D20B; N47S D20D; N47S D20T0; N47T D20K1; N47T D20O1; N47T D20U1)

Scope of Delivery: KL-0369-271 A Reamer, Ø 4.8mm, with Holder, M10x1

Part No.	Description	Qty
KL-0369-2710 A	Holder, M10x1, with Set Screw	1
KL-0369-2512 A	Reamer, Ø 4.8mm	1

Technical Data:

Length L:	60-105mm
D measured (at glow plug):	Ø 4.0mm



KL-0369-272 A (Patented)
Reamer, Ø 5.2mm, with Holder, M10x1
(adjustable)

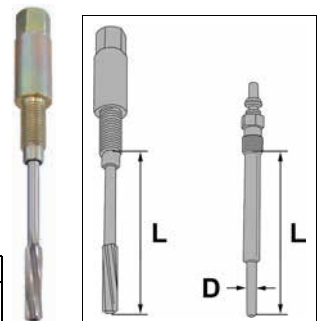
Suitable for use on the following Diesel engines: PSA 2.0 HDI (DW10 [110 bhp, 135 bhp]).

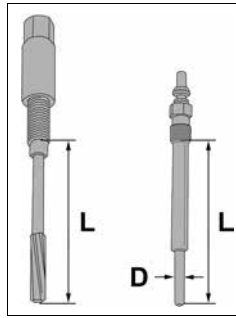
Scope of Delivery: KL-0369-272 A Reamer, Ø 5.2mm, with Holder, M10x1

Part No.	Description	Qty
KL-0369-2710 A	Holder, M10x1 with Set Screw	1
KL-0369-2522 A	Reamer, Ø 5.2mm	1

Technical Data:

Length L:	41-83mm
D measured (at glow plug):	Ø 4.4mm





Technical Data:

Length L:	40-85mm
D measured (at glow plug):	Ø 5.0mm

KL-0369-273 A

(Patented)

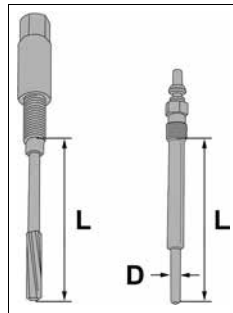
Reamer, Ø 5.8mm, with Holder, M10x1 (adjustable)

For example, suitable for use on the following Diesel engines: VW-Audi 2.5 TDI V6 (AKE, AKN, AYM, BAU, BCZ, BDG, BDH, BFC, AFB), 3.0 TDI V6 (ASB); Mercedes CDI (OM611, OM612, OM613, OM646, OM647, OM648, OM668), Alfa Romeo, BMW, Fiat, Lancia 1.9 JTD (182B4.000), 2.4 JTD (839A5.000).

Scope of Delivery:

KL-0369-273 A Reamer, Ø 5.8mm, with Holder, M10x1 (adjustable)

Part No.	Description	Qty
KL-0369-2710 A	Holder, M10x1, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1



Technical Data:

Length L:	40-85mm
D measured (at glow plug):	Ø 5.0mm

KL-0369-274 A

(Patented)

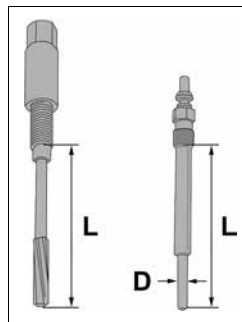
Reamer, Ø 5.8mm, with Holder, M10x1 (adjustable)

For example, suitable for use on the following Diesel engines: Alfa Romeo, Fiat, Lancia 1.9 JTD (AR32302, AR37101, 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188B2.000, 182B4.000, 192A3.000, 192A9.000, 192A1.000, 223A7.000, 937A2.000, 937A7.000, 939A1.000, 939A7.000) and 2.4 JTD (AR32501, 185A6.000, 838A8.000, 839A5.000, 839A6.000, 841C.000, 841G.000); Vauxhall/Opel 1.9 CDTi (Z19DT).

Scope of Delivery:

KL-0369-274 A Reamer, Ø 5.8mm, with Holder, M10x1 (adjustable)

Part No.	Description	Qty
KL-0369-2740 A	Holder, M10x1, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1



Technical Data:

Length L:	40-85mm
D measured (at glow plug):	Ø 5.0mm

KL-0369-281 A

(Patented)

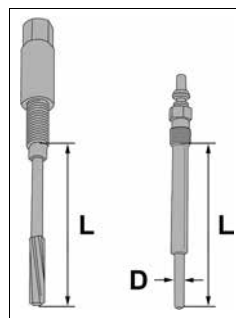
Reamer, Ø 5.8mm, with Holder, M10x1.25 (adjustable)

Suitable for use on the following Diesel engines as found in Opel/Vauxhall (4EE-2, A17DTJ, A17DTC, A17DTE, A17DTS, Y17DT, Y17DTL, Z17DTL, Y30DT, Z30DT); Ford (WL, WL-T); Honda (D4FA); Hyundai (D4FA); Kia (R2); Mini (1ND); Mazda (RF46, RF-N, RF-CX, RF OHC, MD25TI); Nissan (CD23, LD23, TD27T); Toyota (1ND, 1ND-TV).

Scope of Delivery:

KL-0369-281 A Reamer, Ø 5.8mm, with Holder, M10x1.25 (adjustable)

Part No.	Description	Qty
KL-0369-2810 A	Holder, M10x1.25, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1



Technical Data:

Length L:	40-85mm
D measured (at glow plug):	Ø 5.0mm

KL-0369-291 A

(Patented)

Reamer, Ø 5.8mm, with Holder, M12x1.25 (adjustable)

Suitable for use on the following Diesel engines: Opel/Vauxhall 2.5 D/TD (8140.27.2500; 8140.27.2510; S9U 714; S84 770; 8140.67.2500; 8140.67.2550; 8140.67.2580; S8U 750; S8U 758; S8U 752; S8U 770; S8U 780; S8U 782) and Renault 1.9 D (F8Q 620; F8Q 624; F8Q 640; F8Q 682).

Scope of Delivery:

KL-0369-291 A Reamer, Ø 5.8mm, with Holder, M12x1.25 (adjustable)

Part No.	Description	Qty
KL-0369-2910 A	Holder, M12x1.25, with Set Screw	1
KL-0369-2732 A	Reamer, Ø 5.8mm	1

KL-0369-15

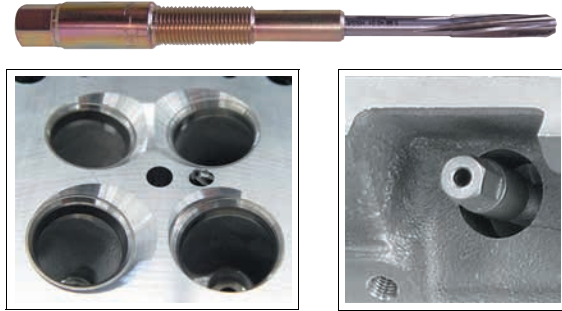
Reamer

Suitable for use on the Mercedes CDI engines OM611, OM612, OM613, OM628, OM646*, OM647, OM648 etc. (*not suitable for OM646 EVO) and Smart CDI engine (R660) with M10x1 glow plug thread.

Used for cleaning the bore hole between the glow element and the combustion chamber. Important if the engine is difficult to start.

Technical Data:

Drive:	10mm
Reamer Ø:	6mm



KL-0369-13

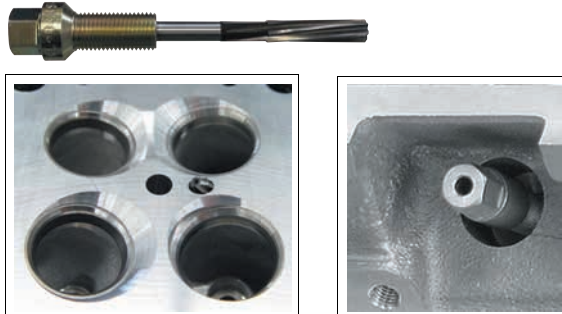
Reamer for Glow Plug Channel

Suitable for use on the Mercedes 4-valve engines OM604, OM605, OM606 with M12x1.25 glow plug thread size.

This tool is designed to ream and clean the bore between the glow element and the pre-combustion chamber.

Technical Data:

Drive:	13mm
Reamer Ø:	7mm



KL-0369-24

Glow Plug Bore Cleaning Brush Set

Universally suitable.

for Diesel engines having a glow plug bore thread M8x1, M10x1 or M10x1.25 and a glow plug channel Ø of 4mm, 4.4mm or 5mm.

For cleaning the glow plug bore thread and the small aperture leading to the combustion chamber.



Scope of Delivery: KL-0369-24 Glow Plug Bore Cleaning Brush Set

Part No.	Description	Qty
KL-0369-2448	Glow Plug Bore Cleaning Brush, Ø 4.8mm	1
KL-0369-2452	Glow Plug Bore Cleaning Brush, Ø 5.2mm	1
KL-0369-2458	Glow Plug Bore Cleaning Brush, Ø 5.8mm	1
KL-0369-2468	Glow Plug Bore Cleaning Brush, Ø 6.8mm	1
KL-0369-2485	Glow Plug Bore Cleaning Brush, Ø 8.5mm	1

KL-0369-18

Glow Plug Connector Pliers (Straight Design)

For example, suitable for use on Mercedes, BMW, VW-Audi etc.

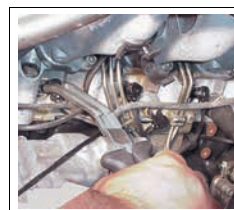
Designed to remove stubborn and hard-to-reach glow plug connectors installed on the latest-generation engines.



KL-0369-19

Glow Plug Connector Pliers (Angled Design)

Designed to remove stubborn and hard-to-reach glow plug connectors as installed on the latest-generation engines.



KL-0193-10 A

Pliers for Protection Cap

Suitable for use on VW-Audi, Seat, Škoda vehicles equipped with 2.0 Common Rail Diesel engines. (Engine codes: DBAA, CBAB, CBBA, CDBD, CBDC, CBAC, CBDA)

Intended for the removal of stuck and hard-to-reach glow plug connectors.





KL-0127-800 K Ignition Coil Puller Set (4-piece)

Suitable for use on VW/Audi petrol injection engines.

These tools are used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

Scope of Delivery:

KL-0127-800 K Ignition Coil Puller Set (4-piece)

Part No.	Description	Qty
KL-0127-81	Ignition Coil Puller	1
KL-0127-82	Ignition Coil Puller	1
KL-0127-83	Ignition Coil Puller	1
KL-0127-84	Ignition Coil Puller	1
KL-0127-8090	Plastic Storage Case	1

KL-0127-81 Ignition Coil Puller

Suitable for use on 1.4 and 1.6 16V petrol injection engines.

Engine codes: AZD, BCA, BCB; e.g. in VW Bora, Golf, New Beetle etc.

This tool is used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

Technical Data:

Length:	137mm
Weight:	145g
Opening width:	26.3mm

KL-0127-82 Ignition Coil Puller

Suitable for use on 6-cylinder (4V) and 5-cylinder petrol injection engines as found in VW Bora, Golf, Passat, Sharan, Touareg, Phaeton and T5.

This tool is used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

Technical Data:

Length:	134mm
Weight:	130g
Opening width:	18mm

KL-0127-83 Ignition Coil Puller

Suitable for use on 1.8 Turbo petrol injection engines.

Engine codes: ARZ, AQA, AUM, AUQ; e.g. Audi A3, TT and VW Bora, Golf etc.

This tool is used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

Technical Data:

Length:	50mm
Weight:	85g
Opening width:	38mm

KL-0127-84 Ignition Coil Puller

Suitable for use on 8- and 12-cylinder petrol injection engines as found in VW Passat and Phaeton.

This tool is used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.

Technical Data:

Length:	118mm
Weight:	134g
Opening width:	35.5mm

6



KL-0127-86

Ignition Coil Puller

Suitable for use on VW-Audi, Seat and Škoda 1.2, 1.4, 1.8, as well as 2.0 FSI / TSI / TFSI petrol engines as fitted to: VW Beetle (5C), Eos (1F), Golf SV/Sportsvan (AM), Golf VI (5K, AJ), Golf VII (5G, BE, BA), Jetta (162), Passat VI (36), Passat CC (357), Polo V (6R, 6C), Sharan (7N), Tiguan (5N); Audi A1 (8X), A3 (8P), Q3 (8U), TT (8J); Seat Alhambra (71), Leon (5F); Škoda Octavia II (1Z), Octavia III (5E), Superb II (3T) etc. (Engine codes: CHPA, CHZD, CJSB, CJXB, CJXC, CJZA, CJZB, CMBA, CPTA, CPVA, CPVB, CPWA, CUKA, CUKB, CWVA, CXCA, CXSA, CXSB, CYVA, CYVB, CZCA, CZDA, CZEA, CCZA, CHPA, CJSB, CJZA, CJZB, CMBA, CPTA, CPVA, CPVB, CPWA, CXSA, CYVA, CYVB, CZDA, CZEA)

This tool is designed to remove and install ignition coils with final output stage.



KL-0127-41

Spark Plug Socket, Size (waf) 14mm

Suitable for use on Renault Clio 1.2 16V; Twingo 1.2 16V etc.

Technical Data:

Size (waf):	14mm
Drive:	3/8"
Length:	230mm



KL-0127-42

Jointed Spark Plug Socket, Size (waf) 14mm

Suitable for Renault Clio 1.2 16V; Twingo 1.2 16V etc.

Technical Data:

Length:	80mm
Socket size:	14mm
Drive:	3/8"
Weight:	100g



KL-0127-43

Spark Plug Socket, Size (waf) 14mm

Suitable for use on BMW 3 Series (E90 [N53B]); Citroën C5 (HPI); Peugeot 207 (1.6 16V), 406 (HPI); Mini One (1.4) etc.

Technical Data:

Length:	90mm
Size (waf):	14mm
Drive:	3/8"



KL-0127-44

Spark Plug Socket, Size (waf) 14mm

Suitable for Citroën C5 (HPI); Peugeot 207, 308 (1.6 16V); 406 (HPI); Mini One 1.4 etc.

Technical Data:

Length:	250mm
Size (waf):	14mm
Drive:	3/8"



Accessories (on demand):

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm

4549-05 CODE:1545140 - Torque Wrench TORCOFIX K 3/8" 5-50Nm





Technical Data:

Length:	92mm
Size (waf):	14mm
Drive:	3/8"

KL-0127-48

Spark Plug Socket with Joint, Size (waf) 14mm

Universally suitable for use on spark plugs having a 14 mm hex and bi-hex profile.

Essential tool for BMW vehicles equipped with an N43 engine; e.g. BMW 1 Series (E81 / E87 [N43B]), 3 Series (E90 [N43B]) and 5 Series (E60 [N43B]); etc.

This tool is designed for the removal and installation of spark plugs having a bi-hex profile size (waf) of 14mm. The swivel head allows for easy access also to spark plugs that are difficult to reach. The socket features a rubber insert ensuring firm grip and safe retention of the spark plug, thus facilitating greatly their installation.



KL-0127-45

Spark Plug Socket, Size (waf) 16mm

Technical Data:

Length:	90mm
Size (waf):	16mm
Drive:	3/8"



KL-0127-46

Spark Plug Socket, Size (waf) 16mm

Technical Data:

Length:	250mm
Size (waf):	16mm
Drive:	3/8"

6



KL-4015-2016

Spark Plug Socket, Size (waf) 16mm

Technical Data:

Length:	65mm
Size (waf):	16mm
Drive:	3/8"



KL-4015-2021

Spark Plug Socket, Size (waf) 21mm

Technical Data:

Length:	65mm
Size (waf):	21mm
Drive:	3/8"

Accessories (on demand):

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm



4549-05 CODE:1545140 - Torque Wrench TORCOFIX K 3/8" 5-50Nm



KL-0127-7 Spark Plug Connector Pliers

Applicable to VW, Audi, Opel/Vauxhall, Porsche etc.

Forged and with offset jaws for pulling off and putting on spark plug connectors, specifically designed for heat protection connectors.



KL-0127-5 Spark Plug Connector Pliers

Applicable to virtually any vehicle.

With 30° angled sleeve jaws, designed for the careful and safe removal of spark plug connectors having a silicon coating.



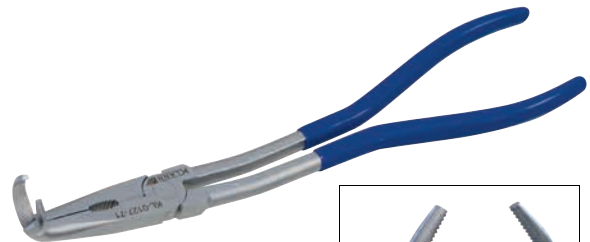
KL-0127-71 Spark Plug Connector Pliers

Universal application. The ideal tool for Ford vehicles.

Forged and with offset gripping jaws (curved at 87°) for pulling off or putting on spark plug connectors, specifically designed for heat protection connectors.

Technical Data:

Length:	250mm
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6

KL-0127-6 Spark Plug Connector Pliers

Applicable to virtually any vehicle.

The pliers feature 10° angled, long clamping jaws. Grooves in the jaws prevent the pliers from slipping off. Long pliers shanks enable also deep-seated spark plug connectors to be pulled off, and additionally offer extended safety distance to the hot engine.





KL-0127-92

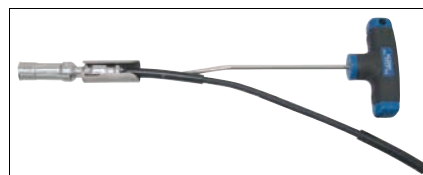
Spark Plug Connector Puller

Applicable to metal spark plug connectors on VW-Audi, Mercedes, Smart etc.

Indispensable tool for removing and installing hard-to-reach spark plug connectors.

Technical Data:

Length:	300mm
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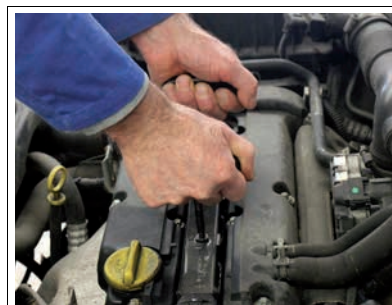


KL-0127-85

Ignition Module Remover (2-pc.)

Suitable for use on Opel/Vauxhall 3- and 4-cylinder fuel injection petrol engines as installed in: Opel/Vauxhall Agila-A, Astra-F, Astra-G, Astra-H, Astra-J, Calibra, Combo, Corsa-B, Corsa-C, Corsa-D, Frontera-A, Frontera-B, Insignia, Meriva-A, Meriva-B, Omega-B, Signum, Tigra-A, Tigra-B, Vectra-B, Vectra-C, Zafira-A, Zafira-B. (Engine codes: LDD, LDE, LLU, LUH, LUJ, 2HO, A10XEP, A14NEL, A14NET, A14XER, X14NZ, X14SZ, X14XE, A16LET, A16XER, X16SZR, X16XE, X16XEL, A18XER, X18XE, X20SE, X20XEV, X22SE, X22XE, Y22SE, Z10XEP, Z12XE, Z12XEP, Z14XE, Z14XEL, Z14XEP, Z16LEL, Z16LER, Z16LET, Z16XE, Z16XER, Z16YNG, Z18XE, Z18XER, 20LEH, Z20LER, C22SEL)

Designed to remove/put back in place the ignition module found on Opel/Vauxhall fuel injection petrol engines.



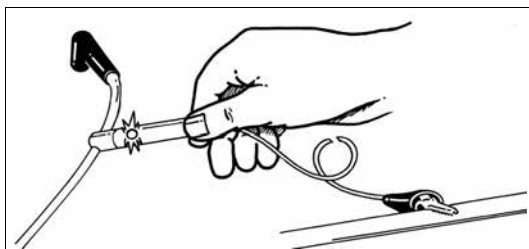
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KL-0127-39

Ignition Wire Tester

Allows you to quickly locate faulty ignition wires.

In order to check the ignition wire, the tester is placed directly on the insulation. Enables testing the ignition wire without having to pierce the insulation. Thus, contact with the current-carrying lead is eliminated. Light flashes indicate correct functioning of the ignition wire.



Technical Data:

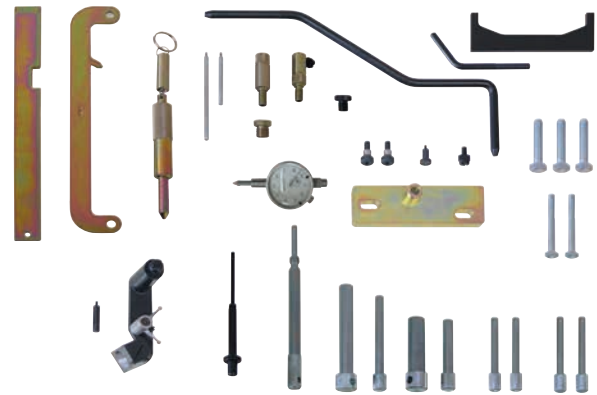
Weight:	85g
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KL-0180-106 K Locking Tool Set

Universally applicable, e.g. to:

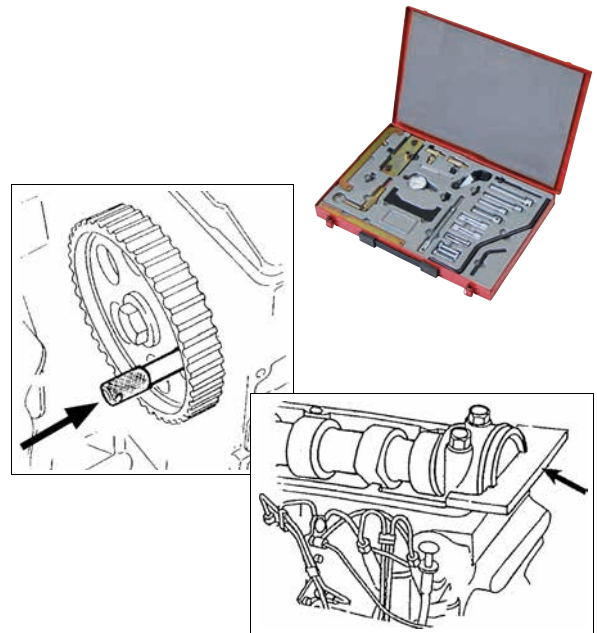
- Audi: 1.9 ID / TDI (1Y, 1Z, AAZ, AHU, AFN, AFF & AVG engines)
- Citroën/Peugeot: 1.4 D, 1.7 D / TD, 1.8 D / TD, 1.9 D / TD, 2.1 and 2.2 I TD (TUD & XUD engines)
- Fiat/FSO: 1.9 D / TD (PSA engines)
- Ford: 1.6 D, 1.8 D / TD (88-02), 1.9 TDi (-00); LDV /Mazda: (PSA & Ford engines)
- Rover: Metro, 114D, 218/418SD, Maestro & Montego 2.0 D
- Seat: 1.3 D, 1.4 D, 1.7 Sdi, 1.9 D Turbo, 1.9 SDi / TDi (MN, 1W, AAZ, AEY, AFN, AHU, AKW & AVG engines)
- Škoda: Felicia 1.9 D (AEF engine)
- Vauxhall/Opel: 1.6 D, 1.7 D / DR / DTL+ Isuzu engines 1.5 D - 3.1 TD
- Volkswagen: 1.6 D, 1.7 D, 1.9 DT, 1.9 SDI / Tdi and 2.4 D (MN, 1W, 1Y, 1Z, AEY, AFN, AHB, AHU, AKW, ALE, AHH, AZZ, AVG, ACL and ACT engines)
- Volvo: 240, 740, 760, 940, 960D / Turbo
- Bosch VE, Diesel Kiki, Nippondenso and CAV/ RotoDiesel injection pumps.

Very useful tool set for locking/positioning engine shafts such as camshaft, crankshaft and injection pump shaft, as well as for adjusting the injection pump.



Scope of Delivery: KL-0180-106 K Locking Tool Set

Part No.	Description	Qty
KL-0129-210	Adjustment Tool for Bosch VE Injection Pump	1
KL-0482-210	Camshaft Setting Plate	1
KL-0129-200	Adjustment Tool Kit for Lucas CAV Injection Pump	1
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0481-8	TDC-Setting Tool for Crankshaft/Flywheel	1
KL-0481-9	Locking Pin for Crankshaft	1
KL-0128-0	Dial Gauge, Ø 40mm	1
KL-1480-15	Locking Pin, angled, Ø 7.8mm	1
KL-1480-11	Locking Pin, angled, Ø 6mm	1
KL-1480-18 S	Hex Bolt, M8x40 (3 units)	1
KL-0481-611	Hex Bolt, M6x50 (2 units)	1
KL-0280-9	Setting Gauge	1
KL-0680-10	Locking Pin for Crankshaft, long	1
KL-0680-14 A	Locking Pin, Ø 6mm (2 pcs.)	1
KL-1780-101	Locking Pin, Ø 6.6mm (2 pcs.)	2
KL-0680-12 A	Locking Pin, Ø 9.5mm	1
KL-0280-801	Locking Pin, Ø 15.5mm	1
KL-0680-111	Locking Pin, Ø 8.3mm	1
KL-0680-131	Locking Pin, Ø 12.7mm	1
KL-0180-1069	Storage Case with Insert	1



6

KL-0129-1 A Tool Set for Fuel Injection Pump

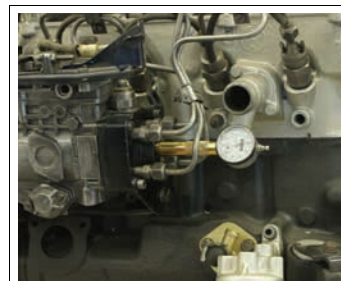
The **KL-0129-1 A** tool set is designed to adjust the **BOSCH VE fuel injection pump** found in Diesel vehicles.

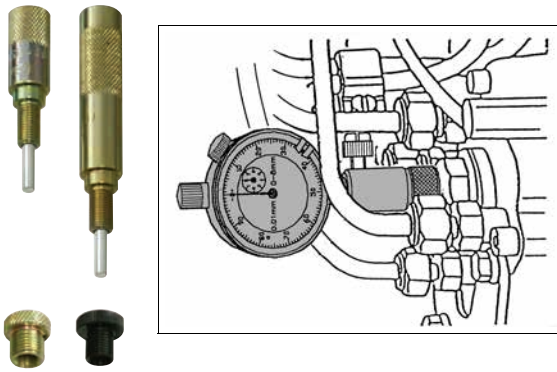
Advantages:

- Accurate adjustment of the BOSCH VE injection pump.
- Tool is easy to use.
- Suitable for use on all the Diesel vehicles equipped with a BOSCH VE fuel injection pump.

Scope of Delivery: KL-0129-1 A Tool Set for Fuel Injection Pump

Part No.	Description	Qty
KL-0129-10	Adaptor, 35mm, M8x1	1
KL-0129-11	Adaptor, 65mm, M8x1	1
KL-0129-12	Adaptor, 120mm, M8x1	1
KL-0129-13	Adaptor, M12x1.25, for VW-Audi TDI	1
KL-0129-14	Adaptor, 85mm, M10x1	1
KL-0128-0	Dial Gauge, Ø 40mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-9	Setting Gauge	1
KL-0129-1020	Plastic Storage Case	1





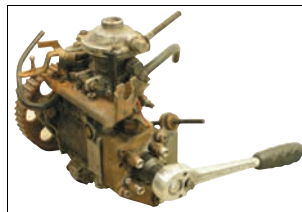
KL-0129-210 A Adjustment Tool for Bosch VE Diesel Injection Pump

Suitable for use on Bosch VE injection pumps.

Designed to adjust the start-of delivery-setting of Diesel injection pumps. For example, included in tool set **KL-0180-106 K**.

Scope of Delivery: KL-0129-210 A Adjustment Tool

Part No.	Description	Qty
KL-0129-10	Adaptor, 35mm	1
KL-0129-11	Adaptor, 65mm, M8x1	1
KL-0129-13	Adaptor, M12x1.25	1
KL-0129-2105 A	Adaptor, M10x1 to M8x1	1



Technical Data:

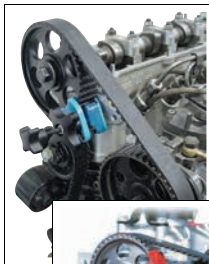
Size (waf):	24mm
Length:	38mm
Drive:	1/2"
Weight:	130g

KL-0129-22 Socket (3-point), 24mm (waf), for VE-Injection Pump

Suitable for use on VE Diesel injection pumps, for example Bosch, Delphi etc.

Designed for the removal and installation of the distributor plunger screw plug on the high-pressure pump.

6



KL-0180-2 K (Universal) Locking Tool Set 'Multi-/Uni-Lock'

Universally applicable tool set for locking timing belt sprockets such as camshaft sprockets (TwinCam and single camshaft engines) injection pump sprockets, etc.

Scope of Delivery: KL-0180-2 K Locking Tool Set 'Multi-/Uni-Lock'

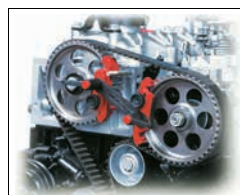
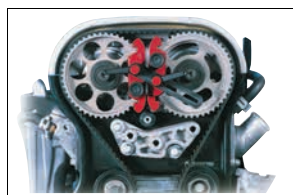
Part No.	Description	Qty
KL-0180-20	Locking Tool	1
KL-0180-201 A	Rail (extended design)	1
KL-0180-21	Locking Tool	1
KL-0180-2090	Storage Case	1

KL-0180-20 Locking Tool

Universally adjustable and applicable tool. Suitable for use on timing belt sprockets with a clearance of approximately 5-60mm.

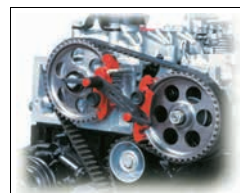
Intended for use on TwinCam engines (e.g. Citroën, Fiat, Ford, Honda, Hyundai, Lancia, Mazda, Mitsubishi, Nissan, Opel/Vauxhall, Peugeot, Renault, Rover, Saab, Subaru, Toyota, Volvo etc.) and on Diesel engines for locking the camshaft relative to the injection pump sprocket (e.g. VW-Audi, Ford, Seat, Škoda, etc.).

Simply insert the **KL-0180-20** locking tool into the engine shaft timing belt sprockets to ensure their correct position relative to the crankshaft when replacing a timing belt or performing an engine repair.



KL-0180-201 A Rail (extended design)

Designed to be used with the **KL-0180-20** locking tool on timing belt sprockets with a clearance of approx. 60-125mm; e.g. when locking the injection pump sprocket relative to the camshaft.



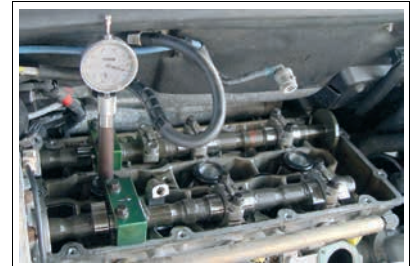
KL-1681-11 K

TDC Position Tool Kit,

VW-Audi/Seat/Škoda/Alfa Romeo/Fiat/Porsche

Universally applicable to vehicles with either an M12x1.25 or M14x1.25 spark plug thread; such as VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3; Seat Alhambra, Altea, Cordoba, Ibiza, Leon, Toledo; Škoda Fabia, Octavia, Roomster, Superb, Yeti; Alfa Romeo 147, 156, 166, GT, GTV, Spider; Fiat Doblo, Fiorino, Marea, Multipla, Palio, Panda, Punto, Qubo, Stilo; Lancia Lybra, Thesis. (Engine codes: 161.05, 182B6.000, 183A1.000, 185A8.000, 188A4.000, 192A2.000, 322.05, 324.05, 361.01, 362.01, 839A7.000, 841A.000, 841D.000, 841E.000, 841L.000, 932A.000, 932A2.000, 936A.000, 936A6.000, 937A1.000, AXU, BAG, BKG, BLF, BLG, BLN, BLP, BMY, BTS, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CDGA, CKMA, KFT, Kfv)

This tool is necessary to determine the TDC position on No.1 cylinder.



Scope of Delivery: KL-1681-11 K TDC Position Tool Kit

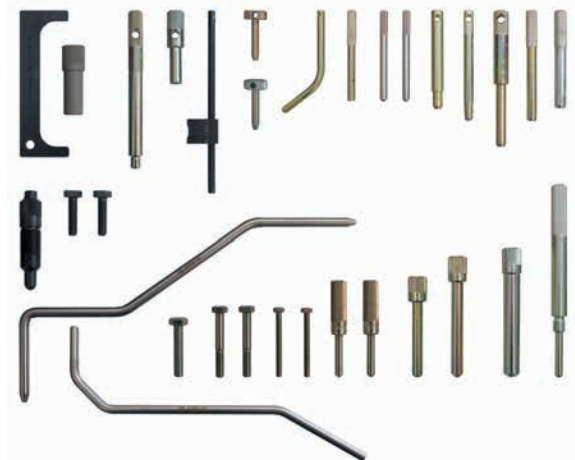
Part No.	Description	Qty
KL-1681-111	Adaptor, M14x1.25, for TDC Positioning	1
KL-1681-112	Adaptor, M12x1.25, for TDC Positioning	1
KL-0128-0	Dial Gauge, Ø 40mm	1
KL-1681-1190	Plastic Storage Case	1

KL-0180-100 KA

Universal Locking Pin Set for Engine Shafts (in a Storage Case)

Applicable to: VW-Audi, BMW, Citroën, Ford, Peugeot, Renault, etc.
Designed for the locking of engine shafts.

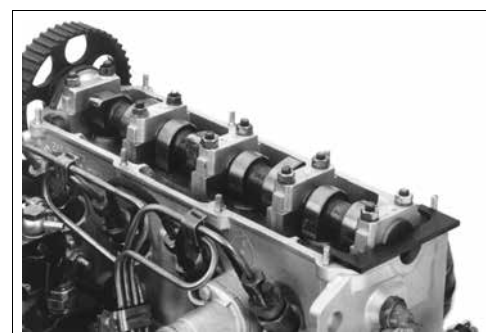
Indispensable tool set when replacing the timing belt, removing or installing the injection pump, etc. (correct timing). In order to obtain correct positioning of engine shafts such as camshaft and pump shaft relative to the crankshaft, it is decisive to insert the correct locking pins into the crankcase, camshaft sprocket, injection pump sprocket and flywheel, as well as to insert the KL-0280-9 setting gauge into the camshaft slot. Only this way can optimum engine power be achieved and damage to the engine prevented.



6

Scope of Delivery: KL-0180-100 KA Universal Locking Pin Set

Part No.	Description	Qty
KL-0280-10	Locking Pin, (Audi V6)	1
KL-0280-8	Locking Pin, Ø 15.5mm (VW-Audi, Seat)	1
KL-0280-9	Setting Gauge (VW-Audi, Seat)	1
KL-0580-10	Locking Pin, Ø 11.8/8mm (BMW)	1
KL-0580-11	Locking Pin, Ø 9.9mm (BMW)	1
KL-0680-10	Locking Pin for Crankshaft (Ford)	1
KL-0680-11 A	Locking Pin, Ø 8.3mm (Renault, Ford)	1
KL-0680-12 A	Locking Pin, Ø 9.5mm (Ford)	1
KL-0680-13 A	Locking Pin, Ø 12.9mm (Ford)	1
KL-0680-14 A	Locking Pin, Ø 6mm (Ford)	2
KL-1280-10	Locking Pin, Ø 8/12mm (Renault)	1
KL-1280-11	Hex Screw, M5x50 (Renault)	2
KL-1280-12	Hex Screw, M7x50 (Renault)	3
KL-1380-10	Locking Pin A, Ø 8mm (Peugeot)	1
KL-1380-11	Locking Pin B, Ø 9.5mm (Peugeot)	1
KL-1380-12	Locking Pin C, Ø 6mm (Peugeot)	1
KL-1382-1	Adjuster for Timing Belt Tensioner (Peugeot)	1
KL-1480-10	Locking Pin (angled), Ø 6.8mm (Peugeot)	1
KL-1480-11	Locking Pin (angled), Ø 6mm (Peugeot)	1
KL-1480-12	Locking Pin, Ø 6mm, short (Peugeot)	2
KL-1480-13	Locking Pin, M8/Ø 6.7mm, (Citroën, Peugeot)	1
KL-1480-14	Locking Pin, Ø 10/8mm (Peugeot)	1
KL-1480-15	Locking Pin (angled), Ø 7.8mm (Citroën, Peugeot)	1
KL-1480-16	Locking Pin, Ø 6mm, long (Peugeot)	2
KL-1480-17	Hex Screw, M8x30mm (Peugeot)	2
KL-1480-18	Hex Screw, M8x40mm (Peugeot)	1
KL-0180-1020	Plastic Storage Case	1





KL-0180-30 B

Retaining Pin Set, Ø 0.8-2.6mm

Universally applicable to VW-Audi, Seat, Škoda; Ford, Opel/Vauxhall, Mitsubishi, Chevrolet, Peugeot, Saab, Suzuki, Volvo, etc.

Designed to lock the automatic timing belt tensioner when replacing a timing belt.

Consists of:

Key fob with ring and 8x retaining pins with Ø 0.8mm; Ø 1.2mm; Ø 1.4mm; Ø 1.5mm; Ø 1.7mm; Ø 1.9mm, Ø 2.4mm, Ø 2.6mm.



KL-0180-3030 Retaining Pin, Ø 3.0mm

Universal application.

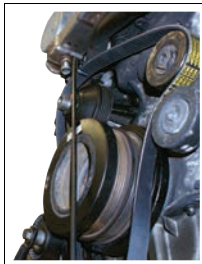
Can be used, for example, for locking the automatic timing belt tensioner when replacing a timing belt.



KL-0180-3033 Retaining Pin, Ø 3.3mm

Universal application.

Can be used, for example, for locking the automatic timing belt tensioner when replacing a timing belt.



KL-0183-21

Belt Mounting Tool

Universal application.

This tool is essential for the easy and trouble-free positioning of a V-ribbed belt on the pulleys. Specifically designed for use in confined spaces.

Technical Data:

Overall length:	720mm
Weight:	330g

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KL-0180-105 KA

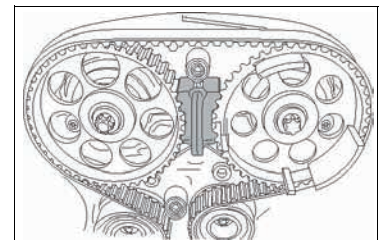
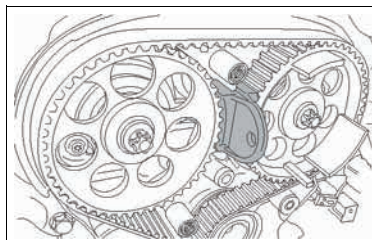
Locking Tool Set, Ford / Honda / Land Rover / Mazda / Rover/Opel/Vauxhall 16V

Suitable for use on the 1.25, 1.4, 1.6, 1.7, 1.8, 2.0, 2.2 and 2.3 16V TwinCam (DOHC) petrol engines as fitted to: Ford (Zetec) Fiesta, Puma & Focus (1.25, 1.4 1.6 and 1.7 16V), Escort/Orion (1.6i and 1.8i), Mondeo (1.6, 1.8 and 2.0 16V [-98]); Honda Civic, Accord, Prelude, Integra & Shuttle (1.6, 2.0, 2.2 and 2.3); Land Rover Discovery (2.0 MPI), Freelander (1.8i 16V); Mazda 121 (1.25 16V); Rover Metro, Gta/Gti, 114, 214, 216, 218, 414, 416, MGF, 220, 420, 618, 620, 623, 820/Vitesse (92-), 25, 45; Vauxhall/Opel (EcoTec) Corsa, Tigra, Meriva, Astra, Cavalier, Calibra, Vectra, Omega, Frontera & Sintra (1.4, 1.6, 1.8, 2.0 and 2.2 16V).

Designed for the locking/positioning of camshaft, balance shaft and crankshaft. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0180-105 KA Locking Tool Set

Part No.	Description	Qty
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-1780-105 A	Locking Tool for Camshafts	1
KL-1780-106 A	Locking Tool for Camshafts	1
KL-0482-313 A	Locking Tool for Camshafts	1
KL-0482-314 A	Locking Tool for Camshafts	1
KL-0482-301	Locking Tool for Camshafts	1
KL-0482-302	Locking Tool for Camshafts	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	2
KL-1780-103 A	Locking Pin, Ø 6.7mm	2
KL-1780-107 A	Locking Pin, Ø 8mm	1
KL-4990-2001	Plastic Storage Box, 53x107x1mm	1
KL-4990-1103	Plastic Storage Case	1



Mobile Modular Workstation „MODULO Engine“

Universally suitable for repairs to petrol and Diesel engines as found in passenger cars.

The following example of the Mobile Modular Workstation “MODULO Engine” shows the ideal composition of tool modules for the mobile workplace with all the tools needed to ensure fast, organised and cost-effective repairs and maintenance work to engines can be carried out. This versatile “MODULO Engine” comes equipped with tool kits for stuck injector nozzles, broken-off glow plugs and damaged spark plug threads. The modules also include timing/locking tools both for chain-driven and belt-driven engines, alternator combination sockets, counter-holding tools etc.

Possible equipment of the: Mobile Modular Workstation “Modulo Engine”

Part No.	Description	Qty
KL-0132-56 E	Glow Plug Tool Set (Universal), in a Foam Insert	1
KL-0184-011 E	Counter-Hold Tool Kit, in a Foam Insert	1
KL-0186-14 E	Injector Nozzle Puller Set (Universal), in a Foam Insert	1
KL-0186-141 E	Injector Nozzle Puller Upgrade Kit, in a Foam Insert	1
KL-0186-142 E	Hydraulic Cylinder 17t (Short Design), with Pull Spindles	1
KL-0284-184 E	Alternator and Belt Tool Set, in a Foam Insert	1
KL-0369-34 E	Glow Plug Tool Upgrade Kit, Mercedes, in an Foam Insert	1
KL-4999-1202	Drawer Divider, 100mm (with Rivets)	2
KL-4999-1203	Drawer Divider, 60mm (with Rivets)	2
KL-4999-121	Workshop Trolley/Workbench (without tools)	1



KL-0280-701 K

Locking Tool Set, VW 1.2, 1.4, 1.6, 1.9 TDI

Applicable to VW-Audi, Seat, Škoda and Ford vehicles equipped with either a 1.2, 1.4, 1.6 or 1.9 Common Rail or Pumpe-Düse (unit injector) Diesel engine such as VW Lupo, Polo, Fox, Golf, Passat; Audi A1, A2, A3; Seat Arosa, Ibiza, Cordoba; Škoda Fabia II, Roomster, Praktik; Ford Galaxy etc.
(Engine codes: AMF, ANU, ANY, ASZ, ASZ1, ATL, AUY, AYZ, BAY, BHC, BMS, BNM, BNV, BWB, CAYA, CAYB, CAYC, CAYD, CAYE, CFWA)

Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. The kit also includes tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0280-701 K Locking Tool Set, VW 1.2, 1.4, 1.6, 1.9 TDI

Part No.	Description	Qty
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-19	Locking Tool	1
KL-0280-2201 A	Locking Pin (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4031-3610	Screw Driver Bit Socket, XZN-M10	1
KL-4031-3114	Screw Driver Bit Socket, XZN-M14, 100mm	1
KL-0280-7029	Plastic Storage Case	1



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Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



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





(Engine codes: AJM, AMF, ANU, ANY, ARL, ASZ, ASZ1, ATD, ATL, AUY, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, AYZ, AZV, BAY, BDJ, BDK, BGW, BHC, BHW, BJB, BKC, BKD, BKE, BKP, BLB, BLS, BLT, BMA, BMM, BMN, BMP, BMR, BMS, BMT, BNA, BNM, BNV, BPW, BPX, BPZ, BRB, BRC, BRD, BRE, BRF, BRM, BRR, BRS, BRT, BRU, BSS, BST, BSU, BSV, BSW, BTB, BUK, BUY, BUZ, BVA, BVA, 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, CKUB, CKUC, CLCA, CLCB, CLJA, CLLA, CMEA)

KL-0280-702 K

Locking Tool Set, VW 1.2-2.0 TDI

Applicable to VW-Audi, Seat, Škoda and Ford vehicles equipped either with a 1.2, 1.4, 1.6, 1.9 or 2.0 Common Rail or Pumpe-Düse (unit injector) Diesel engine. Engines fitted to: VW Beetle, Caddy, Crafter, Fox, Golf, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran, Transporter T5; Audi A1, A2, A3, A4, A5, Q5, A6, TT; Seat Alhambra, Altea, Arosa, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Fabia II, Octavia II, Roomster, Superb, Superb II, Yeti and Ford Galaxy etc.

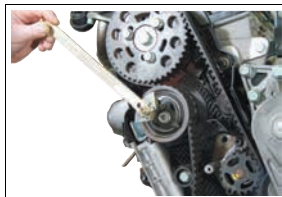
Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. The kit also includes tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-702 K Locking Tool Set, VW 1.2-2.0 TDI

Part No.	Description	Qty
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, pin Ø 5mm	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-19	Locking Tool	1
KL-0280-20	Locking Tool, 2.0 TDI, PD	1
KL-0280-2201 A	Locking Tool (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0280-221	Locking Pin (angled), Ø 4mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-0284-92	Tensioner Pulley Spanner (waf 16mm)	1
KL-0286-11	Guide Pin Set	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4031-3610	Screw Driver Bit Socket, XZN-M10	1
KL-4031-3114	Screw Driver Bit Socket, XZN-M14, 100mm	1
KL-0280-7029	Plastic Storage Case	1

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(Engine codes: 1X, 1Z, AAZ, ABL, AEY, AFN, AGD, AGP, AGR, AHB, AHF, AHG, AHU, AJM, AKU, AKW, ALE, ALH, AMF, ANU, ANY, AQM, ARL, ASV, ASX, ASY, ASZ, ATD, ATJ, ATL, AUY, AVB, AVF, AVG, AVQ, AWX, AXB, AXC, AXR, AYZ, AZV, BAY, BDJ, BDK, BHC, BJB, BKC, BKD, BKE, BLB, BLS, BMM, BMN, BMS, BNA, BNM, BNV, BPW, BRB, BRC, BRD, BRE, BRF, BRM, BRU, BSU, BTB, BUY, BVA, BVF, BVG, BVK, BWB, BXE, BXF, CAYB, CAYC, MF)

KL-0280-62 K

Locking Tool Set, VW-Audi/Seat/Škoda

Applicable to VW-Audi 1.2, 1.4, 1.6, 1.9 and 2.0 TDI / TDI PD / TDI CR, 3- and 4-cylinder Diesel engines as installed in: VW Beetle, Bora, Caddy, Eos, Fox, Golf/Vento, Jetta, Lupo, Passat, Polo, Sharan, Touran, Transporter; Audi A2, A3, A4, A6; Seat Alhambra, Altea, Cordoba, Ibiza, Leon, Toledo; Škoda Fabia, Octavia, Superb.

This tool set is designed for the locking and/or positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. It can also be used to lock/position pulley tensioners and to adjust the timing belt tensioner. The guide pins included in the set are required to pull the front-end carrier forwards. As a result, the removal of the front-end carrier is no longer necessary.

Scope of Delivery: KL-0280-62 K Locking Tool Set, VW-Audi/Seat/Škoda

Part No.	Description	Qty
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-19	Locking Tool, 1.2, 1.4, 1.9 TDI PD	1
KL-0280-20	Locking Tool, 2.0 TDI PD	1
KL-0280-2201 A	Locking Pin angled, Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-91	Setting Gauge for Camshaft	1
KL-0284-91	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-0286-11	Guide Pin Set for Front-End Carrier, VW-Audi	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-0280-6290	Plastic Storage Case	1

KL-0282-39

Puller Tool Set, Pumpe-Düse (Unit Injector)

Applicable to the VW-Audi, Ford, Seat, Škoda 3- and 4-cylinder (1.2, 1.4, 1.6, 1.9 and 2.0 litre) TDI Pumpe-Düse (unit injector) engines as installed in: VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3, A4, A5, A6, Q5, TT; Seat Altea, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Oktavia, Praktik, Roomster, Superb, Yeti. (Engine codes: CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CEGA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHF, CFJA, CGLA, CGLB, CJAA, CJCA, CJCB, CLCA, CLCB, CLJA, CLLA, CMEA)

This tool set is designed for the easy and professional removal of camshaft hubs. It is required, for example, when replacing the cylinder head gasket on 1.9 litre engines, when removing and replacing the camshaft, and for the repair of engines/cylinder heads. The KL-0282-391 reaction wrench enables the camshaft hub fixing screw to be loosened and tightened correctly. The KL-0282-392 puller allows for the accurate removal of the camshaft hub from the camshaft taper.

Scope of Delivery: KL-0282-39 Puller Tool Set, Pumpe-Düse (Unit Injector)

Part No.	Description	Qty
KL-0282-391	Counter-Holding Tool	1
KL-0282-392	Puller for Camshaft Hub	1



KL-4031-3610

Screwdriver Bit Socket, XZN-M10

Suitable for use on VW-Audi, Seat, Škoda vehicles equipped with a 1.2, 1.6 or 2.0 TDI Common Rail engine. (Engine codes: CAAA, CAAB, CAAC, CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBBB, CCHA, CDCA, CDBA, CEGA, CFCA, CFFA, CFFB, CFFD, CFGB, CFHA, CFHC, CFHD, CFHE, CFHF, CFJA, CFWA, CGLA, CGLB, CGLC, CGLD, CJCA, CJCB, CKTB, CKTC, CKUB, CKUC, CLCA, CLCB, CLJA, CLLA)

This socket is designed to loosen and tighten the fastening screws of the high pressure fuel pump sprocket (toothed timing belt) on Audi A3. The tool is required when replacing a timing belt or for engine repairs. Socket can also be used to install and remove the exhaust gas recirculation tube (EGR tube) on VW Tiguan.



Technical Data:

Size (waf):	XZN-M10
Drive:	3/8"

KL-0280-703 K

Locking Tool Set, VW 1.7, 1.9, 2.4 SDI/TDI

Applicable to VW-Audi, Seat and Škoda vehicles equipped with a 1.7, 1.9 or 2.4 SDI/TDI engine such as VW Lupo, Bora, Golf, Beetle, Caddy, Fox, Polo, Golf IV Convertible, Caddy, T4 (2.4); Audi A3; Seat Arosa, Leon, Toledo, Ibiza und Škoda Octavia, Fabia etc. (Engine codes: 1Y, ABL, AEY, AGP, AGR, AHF, AJA, AKU, ALH, AQM, ASV, ASY, AVG, AYQ)

Designed for the locking/positioning of engine shafts such as camshaft and injection pump shaft. The kit also includes tools to lock/position and adjust the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-703 K Locking Tool Set, VW 1.7, 1.9, 2.4 SDI/TDI

Part No.	Description	Qty
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-91	Setting Gauge for Camshaft	1
KL-0280-93	Setting Gauge for Camshaft	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



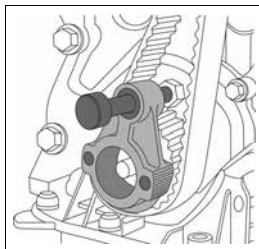
Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



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





KL-0280-706 K

Locking Tool Set, VW 1.6/2.0 TDI

Applicable to VW-Audi, Seat and Škoda vehicles fitted with either a 1.6 or 2.0 Common Rail Diesel engine.

For example: VW Golf VII (5G, BE); Audi A3 (8V), A4 (8K), A5 (8T, 8F), A6 (4G), Q5 (8R); Seat Leon (5F) and Škoda Octavia III (5E) etc.

(Engine codes: CKFB, CKFC, CLHA, CLHB, CNHA, CNHC, CRBC, CRBD, CRFA, CRFC, CRKA, CRKB, CRLB, CRMB, CRVA, CRVC, CSUA, CSUB, CUNA, CUPA)

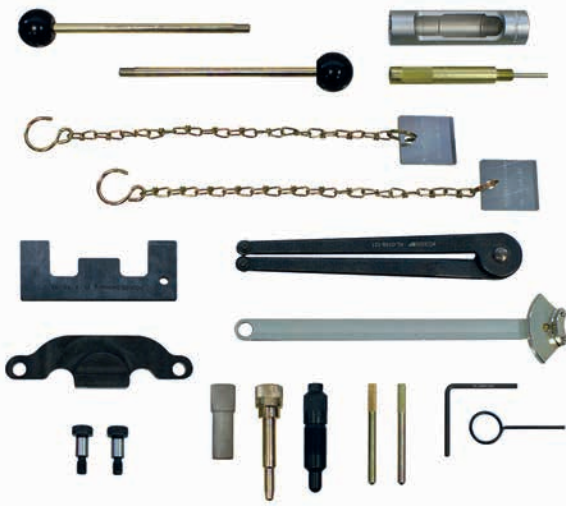
For the locking of camshaft, crankshaft, high-pressure pump, timing belt tensioner and auxiliary drive belt tensioner (V-ribbed belt). An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0280-706 K Locking Tool Set, VW 1.6/2.0 TDI

Part No.	Description	Qty
KL-0280-2201 A	Locking Pin (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, size (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-7061	Locking Tool for Crankshaft	1
KL-0280-7062	Locking Tool Set for Camshaft	1
KL-1480-16	Locking Pin, Ø 6mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1003	Plastic Storage Case	1

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KL-0280-704 K

Locking Tool Set, VW 1.7-2.5 SDI/TDI

Applicable to VW-Audi, Seat and Škoda vehicles equipped with either a 1.7, 1.9, 2.4 or 2.5 SDI/TDI engine such as VW Beetle, Bora, Caddy, Crafter, Fox, Golf IV Convertible, Golf, LT, Lupo, Passat, Polo, Transporter T4; Audi A3, A6 Allroad, A4, A6; Seat Arosa, Ibiza, Leon, Toledo and Škoda Octavia, Fabia, Superb etc. (Engine codes: 1Y, ABL, ACV, AEY, AFB, AGP, AGR, AGX, AHD, AHF, AHY, AJA, AJT, AKE, AKN, AKU, ALH, ANJ, APA, AQM, ASV, ASY, AUF, AVG, AVR, AXG, AXL, AYC, AYM, AYQ, AYY, BAU, BBE, BBF, BCZ, BDG, BDH, BFC, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB)

Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. The kit includes also tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0280-704 K Locking Tool Set, VW 1.7-2.5 SDI/TDI

Part No.	Description	Qty
KL-0129-14	Adaptor, 85mm, M10x1	1
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2601	Locking Pin, Ø 16/10/7.5mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-91	Setting Gauge for Camshaft	1
KL-0280-92	Setting Gauge for Camshaft	1
KL-0280-93	Setting Gauge for Camshaft	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-0286-11	Guide Pin Set	1
KL-0369-10	Hex Socket, Size (waf) 22mm	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1

KL-0280-102 A

Locking Tool Set, VW-Audi/Ford/Seat/Škoda

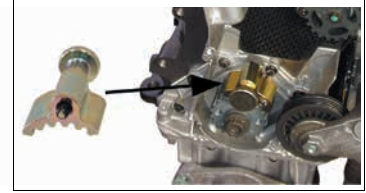
Applicable to vehicles equipped with a 3- or 4-cylinder (1.2, 1.4, 1.6, 1.9 or 2.0) TDI Pumpe-Düse engine (PD=unit injector) such as VW Amarok, Beetle, Bora, Caddy, Crafter, Eos, Golf, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran, Transporter T5; Audi A1, A2, A3, A4, A5, A6, Q5, TT; Seat Alhambra, Altera, Arosa, Cordoba, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Octavia, Praktik, Roomster, Superb, Yeti; Ford Galaxy; Mitsubishi Grandis, Outlander.

(Engine codes: ANY, AJM, AMF, ANU, ANY, ARL, ASZ, ASZ1, ATD, ATJ, ATL, AU, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, AYZ, AZV, BAY, BDJ, BDK, BGW, BHC, BHW, BJB, BKC, BKD, BLB, BLS, BLT, BMM, BMN, BMP, BMS, BMT, BNA, BNM, BNV, BPZ, BRD, BRE, BRF, BRM, BRR, BRS, BRU, BST, BSU, BSV, BSW, BSY, BTB, BUY, BVA, BVF, BVG, BVK, BWB, BXE, CAAA, CAAB, CAAC, CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CAYD, CAYE, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCHA, CDBA, CDCA, CEGA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHD, CFHE, CFHF, CFJA, CFWA, CGLA, CGLB, CGLC, CGLD, CJAA, CJCA, CJCB, CKTB, CKTC, CKUB, CKUC, CLCA, CLCB, CLJA, CLLA, CMEA)

Designed for the locking of crankshaft and automatic timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-102 A Locking Tool Set, VW-Audi/Ford/Seat/Škoda

Part No.	Description	Qty
KL-0280-19	Locking Tool, 1.2, 1.4, 1.9 TDI/PD	1
KL-0280-16	Holding Tool	1



Technical Data:

Weight:	320g
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Note:

The expanding mandrel ensures that the tool is securely locked in the housing borehole.

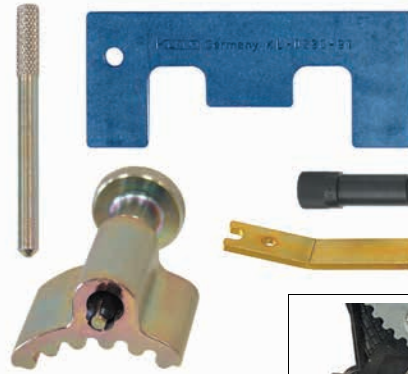
KL-0280-106 A

Locking Tool Set, VW-Audi

Universal Diesel tool set designed to lock/position engine shafts such as camshaft, crankshaft as well as the injection pump sprocket when replacing a timing belt or during engine repairs.

Scope of Delivery: KL-0280-106 A Locking Tool Set, VW-Audi

Part No.	Description	Use
KL-0280-8	Locking Pin, Ø 15.5mm	For locking the injection pump sprockets; applicable to VW-Audi, Seat, Škoda, etc.
KL-0280-16	Holding Tool	For locking the timing belt tensioner in the starting position; applicable to VW-Audi, Ford, Seat, Škoda TDI PD (unit injector) engines.
KL-1480-16	Locking Pin, Ø 6x60mm	For locking the injection pump sprocket; applicable to VW-Audi, Seat, Škoda, 1.9 D / SD / SDI / TD / TDI and 2.5 TDI. For positioning camshafts; suitable for VW-Audi, Ford, Seat, Škoda TDI PD-engines.
KL-0280-19	Locking Tool for Crankshaft	For locking the crankshaft; applicable to VW-Audi, Ford, Seat, Škoda 3- and 4-Cyl. TDI PD (unit injector) engines e.g. 1.2, 1.4, 1.9 and 2.0 (crankshaft sprocket with marking left to the locking screw).
KL-0280-91	Setting Gauge for Camshaft	For locking the camshafts; applicable to VW-Audi, Seat, Škoda 1.9 D / SD / SDI / TD / TDI engines Ford 1.6 D, 1.9 TD / TDI engines. Volvo Diesel-engines D24, D24T, D24TIC etc.



KL-0280-20

Locking Tool with Expanding Collet, Crankshaft, VW-Audi

Applicable to VW-Audi, Seat, Škoda 1.9 and 2.0 TDI engines with oval crankshaft timing belt sprocket as found in Audi A3, A4, A6, VW Polo, Golf, Caddy, Passat, Touran, Transporter etc.

(Engine codes: ASZ, ATD, AVQ, AXB, AXC, AXR, AZV, BDJ, BDK, BJB, BKC, BKD, BKE, BLB, BLS, BLT, BMA, BMM, BMN, BMP, BMR, BMT, BNA, BPW, BRB, BRC, BRD, BRE, BRF, BRM, BRR, BRS, BRT, BRU, BSS, BST, BSU, BUZ, BVA, BVE, BVF, BVG, BVH, BXE, BXF, BXJ etc.)

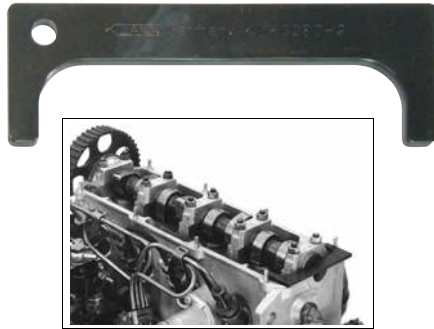
The tool is used for locking the crankshaft in position.

Necessary when replacing a timing belt or during engine repairs.



Scope of Delivery: KL-0280-20 Locking Tool

Part No.	Description	Qty
KL-0280-2001	Base Body	1
KL-0280-1902	Threaded Sleeve with Pins	1
KL-0280-1903	Knurled Screw	1



KL-0280-9

Setting Gauge, VW-Audi/Ford/Seat/Škoda/Volvo

Applicable to VW-Audi, Seat, Škoda, Ford, Volvo 1.9 and 2.5 Diesel engines as found in VW LT, Crafter.

(Engine codes: 1Y, ABL, ACV, AEY, AGP, AGR, AGX, AHD, AHF, AHY, AJA, AJT, AKU, ALH, ANJ, APA, AQM, ASV, ASY, AUF, AVG, AVR, AXG, AXL, AYC, AYQ, AYY, BBE, BBF, BJJ, BJK, B JL, BJM, CEBA, CEBB, CECA, CECB)

This tool is designed to lock/position the camshaft. Necessary when replacing a timing belt or during an engine repair.



KL-0280-103

Locking Tool Set, VW-Audi/Seat/Škoda

Applicable to VW- Audi, Seat, Škoda 4-cylinder 1.9 TDI/SDI engines (except PD). Ideal for VW Golf (IV 1.9 TDI [110 bhp] with aluminium valve cover.

Designed to lock engine shafts such as camshaft and injection pump shaft when replacing a timing belt or performing an engine repair.

The **KL-0280-103** tool set enables the replacement of the timing belt without having to remove the aluminium valve cover or the intake manifold.

Technical Data:

Weight:	400g
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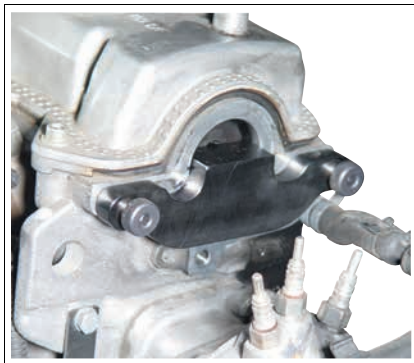
Note:

The valve cover seal has been vulcanised to the valve cover and can, therefore, only be replaced along with the valve cover. The seal is not available individually.

Scope of Delivery:

KL-0280-103 Locking Tool Set, VW-Audi/Seat/Škoda

Part No.	Description	Use
KL-0280-93	Setting Gauge for Camshaft	for locking camshafts without having to remove the aluminium valve cover or the intake manifold. Applicable to VW-Audi, Seat, Škoda 4-cyl. 1.9 TDI/SDI engines (except PD). Ideal for 1.9 TDI (110 bhp) with aluminium valve cover as found in VW Golf (IV).
KL-1480-16	Locking Pin, Ø 6x60mm	for locking the injection pump sprocket. Applicable to VW-Audi, Seat, Škoda, 1.9 D/SD/SDI/TD/TDI engines. For positioning the camshaft. Suitable for VW-Audi, Ford, Seat, Škoda TDI PD-engines.



6



KL-0282-40

Camshaft Sprocket Removal Drift

Applicable to VW/Audi 4-cylinder 1.9 TDI engines (110 bhp)

Designed to remove the camshaft sprocket from the camshaft taper. The special shape of the drift (filler neck in direction of impact) ensures that the impact force is delivered in the correct axial direction onto the front part of the camshaft sprocket.

Technical Data:

Weight:	210g
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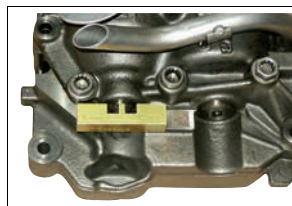
KL-0280-625

Locking Tool for Balance Shaft, VW-Audi

Applicable to VW-Audi 2.0 TDI PD (unit injector) Diesel engines.

(Engine codes: AZV, BDK, BHW, BKD, BMM, BMN, GAHA, GAHB, GAGA and GAGB)

This tool is used to lock the balance shaft when removing/installing a balance shaft module.



KL-0184-021 Counter-Holding Tool, VW

Applicable to VW-Audi (2.4 and 2.5 litre) 4- and 5-cylinder engines, both with and without vibration damper; as found on: VW Crafter, T4.
(Engine codes: AJA, BJJ, BJK, B JL, BJM, CEBA, CEBB, CECA, CECB)

This tool is designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.
An indispensable tool when replacing timing belts, sealing rings or flywheels, as well as for engine repairs.

Scope of Delivery: KL-0184-021 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0210	Counter-Holding Tool (base tool with adaptor)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	3
KL-0184-0103	Folding Spring Bolt	4

Scope of Delivery: KL-0184-0210 Counter-Holding Tool (Base Tool with Adaptor)

Part No.	Description	Qty
KL-0184-0211	Counter-Holding Tool (Base Tool)	1
KL-0284-6101	Adaptor	1
KL-0284-6102	Special Cheese Head Screw	4
KL-0284-6106	Cheese Head Screw, M8x65mm	4
KL-0284-62	Hex Socket	1



Technical Data:

Overall length (assembled tool):	1.8m
Length of extension tube:	400mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm
Drive of hex socket:	1/2"

KL-0280-105 Locking Tool Set, VW-Audi

Applicable to VW-Audi 2.5 TDI V6 and Audi A8 3.3 TDI V8 engines.
(Engine codes: AFB, AKE, AKF, AKN, AMY, BAU, BCZ, BFC, BDG, BDH).

Designed for the locking of camshafts and crankshaft.
Indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-105 Locking Tool Set, VW-Audi

Part No.	Description	Qty
KL-0280-92	Setting Gauge for Camshafts	2
KL-0280-10	Locking Pin for Crankshaft	1



6

KL-0280-25 K Locking Tool Set, VW-Audi 2.5 TDI V6

Applicable to the VW-Audi 2.5 TDI V6 Diesel engines.
(Engine Codes: AFB, AKE, AKF, AKN, AMY, BAU, BCZ, BFC, BDG, BDH)

This tool set is designed to lock/position engine shafts such as camshafts, injection pump shaft and crankshaft. It can also be used for locking and adjusting the timing belt tensioner while replacing a timing belt or during an engine repair.
The guide pins included in the set are required to pull the front carrier forwards. As a result, the removal of the front carrier is no longer necessary.

Scope of Delivery: KL-0280-25 K Locking Tool Set, VW-Audi 2.5 TDI V6

Part No	Description	Use
KL-0280-10	Locking Pin	For locking the crankshaft.
KL-0280-92	Setting Gauge (2 units)	For locking the camshafts.
KL-0286-11	Guide Pin Set for Front-End Carrier	When changing a timing belt or during an engine repair it is necessary to pull the front carrier on the guide pins forwards. As a result, the removal of the front carrier is no longer required.
KL-1480-16	Locking Pin, Ø 6x60mm	For locking the injection pump sprocket.
KL-0180-3012	Retaining Pin, Ø 1.2mm	For locking the automatic timing belt tensioner.
KL-0369-10	Hex Socket, 22mm (waf)	For tightening the tensioner of the injection pump pulley.
KL-0280-2501	Locking Pin, Ø 4.4mm	For locking the V-ribbed belt tensioner tool.





KL-0280-27 KA Locking Tool Set, VW

Suitable for use on VW vehicles equipped with either a 2.5 or 4.9 TDI engine such as VW Phaeton, Touareg, Transporter T5. (Engine codes: AJS, AXE, AXD, AYH, BAC, BKW, BLE, BLJ, BLK, BNZ, BPC, BPD, BPE, BWF)

This tool set is designed to rotate the crankshaft as well as to lock and position camshaft and crankshaft.

Scope of Delivery: KL-0280-27 KA Locking Tool Set, VW

Part No.	Description	Qty
KL-0280-271	Locking Tool for Crankshaft	1
KL-0280-272	Locking Pin, Ø 16/10.3mm	1
KL-0280-273	Locking Tool for Camshaft	1
KL-0284-823	Key for Rotating the Crankshaft	1
KL-0280-2990	Plastic Storage Case	1



KL-0280-270 K Upgrade Kit to KL-0280-27 KA

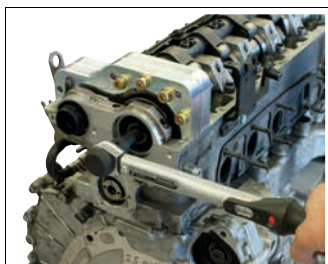
Suitable for use on VW vehicles equipped with either a 2.5 or 4.9 TDI Pumpe-Düse (unit injector) Diesel engine such as VW Phaeton, Touareg, Transporter T5. (Engine codes: AJS, AXD, AXE, AYH, BAC, BKW, BLE, BLJ, BLK, BNZ, BPC, BPD, BPE, BWF)

The KL-0280-270 K upgrade kit in conjunction with the KL-0280-27 KA tool set covers the same field of application as the locking tool set KL-0280-29 KA.

Designed to rotate the crankshaft as well as for the locking/positioning of camshaft and crankshaft. The kit also includes tools to pre-tension and lock the gear train when setting the timing on the engine.

Scope of Delivery: KL-0280-270 K Upgrade Kit to KL-0280-27 KA

Part No.	Description	Qty
KL-0280-291	Pre-Tensioning Tool	1
KL-0280-292	Holding Tool	1
KL-0280-293	Adjustment Tool	1
KL-4031-3516	Screwdriver Bit Socket, XZN-M16	1
KL-4031-3110	Screwdriver Bit Socket, XZN-M10	1
KL-0280-2990	Plastic Storage Case	1



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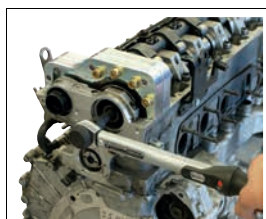
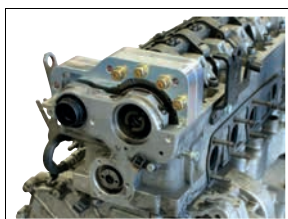
KL-0280-29 KA Locking Tool Set, VW Transporter/Touareg

Suitable for use on VW vehicles equipped with either a 2.5 or 4.9 TDI engine such as VW Phaeton, Touareg, Transporter T5. (Engine codes: AJS, AXE, AXD, AYH, BAC, BKW, BLE, BLJ, BLK, BNZ, BPC, BPD, BPE, BWF)

Very useful tool set for the locking/positioning of camshaft and crankshaft. Also includes tools to pre-tension and lock the gear train when setting the timing on the engine, as well as a key for rotating the crankshaft. An indispensable tool set when performing an engine repair.

Scope of Delivery: KL-0280-29 KA Locking Tool Set, VW Transporter/Touareg

Part No.	Description	Qty
KL-0280-291	Pre-Tensioning Tool	1
KL-0280-292	Holding Tool	1
KL-0280-293	Adjustment Tool	1
KL-0280-273	Locking Tool for Camshaft	1
KL-0284-823	Key for Rotating the Crankshaft	1
KL-0280-271	Locking Tool for Crankshaft	1
KL-0280-272	Locking Pin, Ø 16/10.3mm	1
KL-4031-3516	Screwdriver Bit Socket, XZN-M16	1
KL-4031-3110	Screwdriver Bit Socket, XZN-M10	1
KL-0280-2990	Plastic Storage Case	1



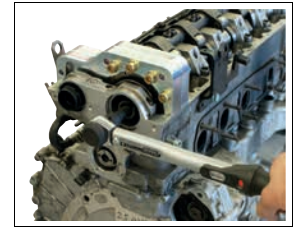
KL-4031-3516

Screwdriver Bit Socket, xZN-M16, 78mm, 1/2"

Suitable for use on:

- VW Transporter (from 2004 onwards) 2.5 TDI (engine: AXD, AXE, BLJ, BNZ, BPC)
- VW Touareg (model 2003) 2.5 TDI (engine: BAC, BLK, BPD, BPE)

Designed for the loosening/tightening of camshaft sprocket fastening screws.
Reinforced design, however, not suitable for use with an impact wrench.



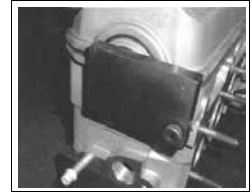
KL-0280-94

Setting Gauge for Camshaft, VW-Audi

Suitable for use on VW/Audi 5-cylinder 2.5 TDI Diesel engines; e.g. LT, T4.

This setting gauge allows the user to lock the camshaft without having to remove the valve cover.

An indispensable tool when replacing a timing belt or performing an engine repair.



Technical Data:

Weight:	680g
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KL-0280-705 KA

Locking Tool Set, VW, from 2.7 to 4.2 TDI

Suitable for use on VW-Audi vehicles equipped with either a 2.7, 3.0, 4.0 or 4.2 TDI Common Rail engine such as VW Touareg, Phaeton and Audi A4, A5 Coupé/Convertible, A6, A7, A8, Q5, Q7 etc.

The tool set is designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. It also includes tools to lock, position and adjust the timing belt tensioner.

An indispensable tool kit when replacing a timing belt or performing an engine repair.



Scope of Delivery: KL-0280-705 KA Locking Tool Set, VW from 2.7 to 4.2 TDI

Part No.	Description	Qty
KL-0280-10	Locking Pin, Audi V6	1
KL-1480-16	Locking Pin, Ø 6mm, long	2
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, Ø 3mm (5-piece set)	1
KL-0280-7053	Crankshaft Turning Tool	1
KL-0280-7054	Set of Locking Pins (2-piece set)	1
KL-0280-7055	Camshaft Turning Adaptor	1
KL-0280-7056	Adaptor for Chain Sprocket	1
KL-0280-7057	Set of Retaining Pins, Ø 3.3mm (2-piece set)	1
KL-0280-7058	Locking Pin, Ø 5mm, Ø 6mm	1
KL-0280-7050	Locking Tool for High-Pressure Pump Sprocket	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1

(Engine codes: ASB, ASE, BKN, BKS, BMK, BMZ, BNG, BPP, BSG, BTR, BUG, BUN, BVN, CAMA, CAMB, CANA, CANB, CANC, CAND, CAPA, CASA, CASB, CASC, CATA, CCFA, CCFC, CCLA, CCMA, CCWA, CCWB, CDSB, CDTA, CDTB, CDUC, CDYA, CDYB, CDYC, CEXA, CGKA, CGKB, CJGA, CJGC, CJMA, CKVB, CKVC, CLAA, CLAB, CLZB, CRCA)

KL-0280-290 K

Upgrade Kit for KL-0280-29 KA

Applicable to VW 4.9 and 5.0 TDI Pumpe-Düse (unit injector) Diesel engines as found in VW Phaeton and Touareg etc.

(Engine codes: AJS, AYH, BKW, BLE, BWF, CBWA)

The KL-0280-290 K upgrade kit is designed to be used with the locking tool set KL-0280-29 K or the KL-0280-29 KA so as to widen their range of application to cover also the VW Phaeton and Touareg 4.9 and 5.0 TDI engines. Very useful tool set for turning the crankshaft and for the locking/positioning of camshaft and crankshaft. Also includes tools to pre-tension and lock the gear train when setting the timing on the engine.

Scope of Delivery: KL-0280-290 K Upgrade Kit for KL-0280-29 KA

Part No.	Description	Qty
KL-0280-2901	Locking Tool for Camshaft	1
KL-0280-2902	Locking Tool for Crankshaft	1
KL-0280-2903	Guide Pin Set	1
KL-4990-1107	Plastic Storage Case	1





KL-0280-61 KA

Locking Tool Set, VW-Audi/Seat/Škoda

Suitable for use on vehicles equipped with either a 1.2, 1.4, 1.9 or 2.0 TDI 3- or 4-cylinder Diesel engine; 1.2 3-cylinder petrol engine; 1.4, 1.6, 1.8 or 1.8 Turbo petrol engine; 1.4 or 1.6 FSI petrol engine; such as VW Beetle, Bora, Caddy, Eos, Fox, Golf, Jetta, Lupo, Passat, Polo, Sharan, Touran, Transporter; Audi A2, A3, A4, A6, A8, RS4, S3, S4, TT; Škoda Fabia, Octavia, Superb; Seat Alhambra, Altea, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo.

(Engine codes: 1X, 1Y, 1Z, AAZ, ABL, ACK, ACY, AFB, AFK, AEB, AEG, AEH, AEY, AFB, AFN, AGA, AGB, AGE, AGD, AGN, AGP, AGR, AGU, AHB, AHF, AHG, AHL, AHT, AHU, AHW, AHY, AJG, AJH, AJK, AJL, AJM, AJQ, AJT, AJV, AKE, AKL, AKN, AKQ, AKU, AKW, ALE, ALF, ALH, ALT, ALW, ALZ, AMB, AMF, AMK, AML, AMM, AMX, ANA, ANB, ANU, ANY, APC, APE, APF, APG, APK, APP, APR, APS, APT, APU, APX, APY, APZ, AQA, AQD, AQM, AQQ, AQX, ARC, ARE, ARJ, ARL, ARM, ARN, ARR, ARX, ARY, ARZ, ASJ, ASM, ASN, ASV, ASX, ASY, ASZ, ATD, ATJ, ATL, ATN, ATX, ATZ, AUA, AUB, AUF, AUM, AUQ, AUR, AUS, AUY, AVB, AVE, AVF, AVG, AVJ, AVQ, AVU, AVY, AWC, AWT, AWX, AWY, AXB, AXC, AXG, AXL, AXP, AXR, AXU, AXW, AXX, AYC, AYM, AYP, AYQ, AYZ, AZD, AZH, AZJ, AZL, AZM, AZQ, AZR, AZV, BAD, BAG, BAM, BAU, BAY, BBG, BBJ, BBU, BBY, BBZ, BCA, BCB, BCZ, BDG, BDH, BDJ, BDK, BDV, BES, BEX, BFB, BFC, BFQ, BGB, BGD, BGU, BHC, BHD, BJB, BJX, BKC, BKD, BKE, BKG, BKV, BKY, BLB, BLF, BLN, BLP, BLS, BLZ, BMB, BMD, BME, BMM, BMN, BMS, BNA, BNM, BNV, BPG, BPJ, BPW, BPY, BRB, BRC, BRD, BRE, BRF, BRM, BRU, BSE, BSF, BSU, BTB, BUD, BUL, BUY, BVA, BVF, BVG, BVK, BWA, BWB, BWE, BXE, BXF, BXW, BYK)

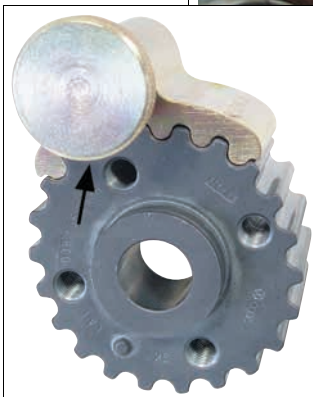
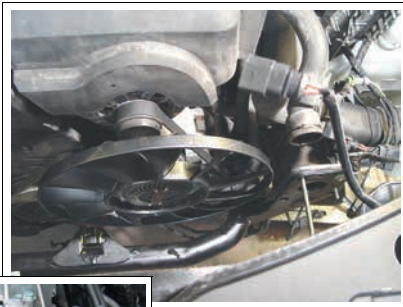
This set of tools is designed for the locking/positioning of engine shafts such as camshafts, injection pump shafts and crankshafts. It also includes tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0280-61 KA Locking Tool Set, VW-Audi/Seat/Škoda

Part No.	Description	Qty
KL-0180-30 B	Retaining Pin Set , Ø 0.8-2.6mm	1
KL-0280-1081 B	Locking Pin for Camshafts	1
KL-0280-1082 B	Locking Pin for Camshafts	2
KL-0280-1083 A	Locking Pin for Crankshaft	1
KL-0280-16	Holding Tool	1
KL-0280-17	Locking Tool for Camshaft, VW-Audi	1
KL-0280-19	Locking Tool for Crankshaft, 1.2,1.4 and 1.9 TDI/PD	1
KL-0280-20	Locking Tool for Crankshaft, 1.9 and 2.0 TDI/PD	1
KL-0280-2201 A	Locking Pin (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, 6mm (waf)	1
KL-0280-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-6013 A	Clamping Screw with Sleeve	1
KL-0280-6021 A	Setting Gauge for Camshaft	1
KL-0280-6022	Locking Screw for Crankshaft	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0280-6103	Locking Pin, Ø 8mm	1
KL-0280-8	Locking Pin, Ø 15.5mm	1
KL-0280-91	Setting Gauge for Camshaft	1
KL-0280-93	Setting Gauge for Camshaft	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm long	1
KL-0286-11	Guide Pin Set for Front-End Carrier	1
KL-1480-16	Locking Pin, Ø 6mm, long	2
KL-1681-111	Adaptor, M14x1.25, for TDC Positioning	1
KL-0280-6190	Plastic Storage Case	1



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Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



DMK 200 CODE:2641240

Torque Wrench Dremaster 40-200Nm



KL-0282-31

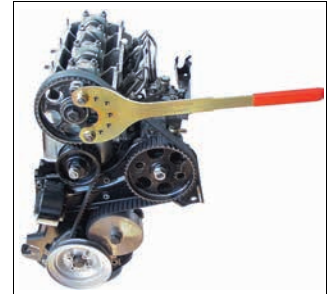
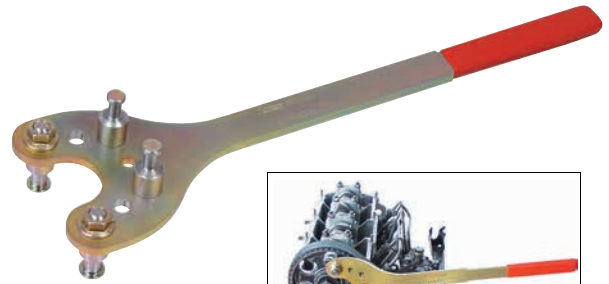
Reaction Wrench (420mm long, adjustable)

Suitable for use on perforated timing belt sprockets with a hole \varnothing not smaller than 12mm, as found in VW-Audi, Seat, Fiat, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Isuzu, Japanese vehicles, etc.

With interchangeable pins and different hole pitches. Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating; for example, when loosening the central fastening screw. Due to the different pin \varnothing and hole pitches, this wrench is almost universal in its range of application.

Technical Data:

Pitch between pins:	45-75mm
Pin \varnothing :	12mm and 16mm
Pin height:	61mm
Overall tool length:	420mm



KL-0282-35 B

Reaction Wrench Set (470mm long, adjustable)

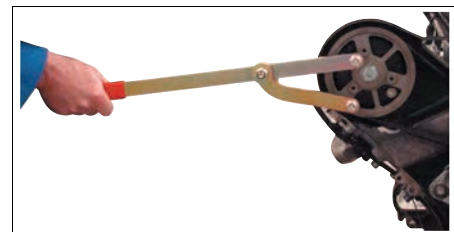
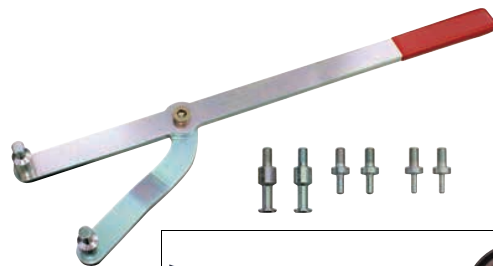
Universally suitable for use on perforated timing belt sprockets with a hole \varnothing not smaller than 6.5mm as found in: VW-Audi, Seat, Škoda, Alfa, Fiat, Lancia, Dacia, MG, Nissan, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Suzuki, Isuzu, Japanese vehicles, etc.

Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating, for example, when loosening/tightening the central fastening bolt. Thanks to the different interchangeable pins and the adjustable lever allowing for variable adjustments to hole diameters and pitches, this tool is nearly universally applicable.

Scope of Delivery:

KL-0282-35 B Reaction Wrench Set (470mm long, adjustable)

Part No.	Description	Qty
KL-0282-35	Reaction Wrench (adjustable)	1
KL-0282-311	Set of Pins, \varnothing 18mm	1
KL-0282-312	Set of Pins, \varnothing 7.5mm	1
KL-0282-313	Set of Pins, \varnothing 6mm	1



Technical Data:

Pitch between pins:	from 14mm to 130mm
Pin \varnothing :	6mm, 7.5mm, 12mm, 18mm
Pin height:	25mm/42mm
Overall tool length:	470mm

KL-0284-10

Adjustment Tool for Timing Belt Tensioner

Suitable for VW-Audi engines.

Designed to be used for adjusting the tension of the timing belt. The tool can be operated from a variety of angles - depending on the space available.



Technical Data:

Drive:	3/8" or by a mandrel
Length:	47mm
Depth:	32.5mm
\varnothing	4.0/6.0mm
Weight:	70g

KL-0284-91 A

Adjustment Tool for Timing Belt Tensioner, VW-Audi, Seat, Škoda

Applicable to VW-Audi, Seat, Škoda 1.6, 1.9 and 2.0 litre petrol and Diesel engines.

Designed to be used for adjusting the tension of the timing belt. The adjustable multi-position head of the tool allows the tensioner pulley to be operated even in confined spaces.



(Engine codes: AAC, AEG, AEH, AGR, AHF, AKL, AKS, ALH, ALZ, APF, APK, AQY, ASV, ASY, ASZ, ATD, ATM, AVQ, AVU, AWA, AWF, AWG, AXA, AXB, AXC, AXR, AXW, AXX, AYD, AZG, AZH, AZJ, AZL, AZM, AZV, BDK, BEH, BFQ, BFS, BGB, BGU, BHD, BHZ, BJB, BKC, BKD, BKP, BLR, BLB, BLR, BLS, BLT, BLX, BLY, BMA, BMB, BMM, BMN, BMP, BMR, BMT, BNA, BPG, BPJ, BPY, BRD, BRE, BRF, BRM, BRT, BRU, BSE, BSF, BSU, BSX, BUL, BUZ, BVA, BVE, BVF, BVG, BVH, BVX, BVY, BVZ, BWA, BWA1, BWE, BWJ, BWT, BXE, BYD, BYK, BZC, CCSA, CDLA, CDLB, CDLC, CDLD, CDLF, CDMA, CHGA, CMXA)



Technical Data:

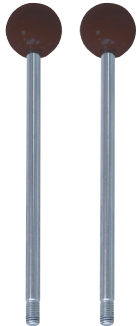
Size (waf):	30mm
Length:	332mm

KL-0284-171

Adjustment Tool for Timing Belt Tensioner, Size (waf) 30mm

Applicable to the VW, Seat and Škoda 1.0, 1.2 and 1.4 TSI petrol engines as fitted to VW Golf VI Convertible, Golf VII, Golf Sportsvan, Jetta, Polo, up!; Seat Leon, Mii and Škoda Citigo. (Engine codes: CAVA, CAVD, CAXA, CHPA, CHYA, CHYB, CJZA, CJZB, CJZC, CJZD, CMBA, CPGA, CPTA, CPVA, CPVB, CPWA, CRJA, CTHD, CXSA, CYVA, CYVB, CZCA, CZDA, CZEA)

For tensioning and relieving the tension on the automatic timing belt tensioner.



Technical Data:

Length:	190mm
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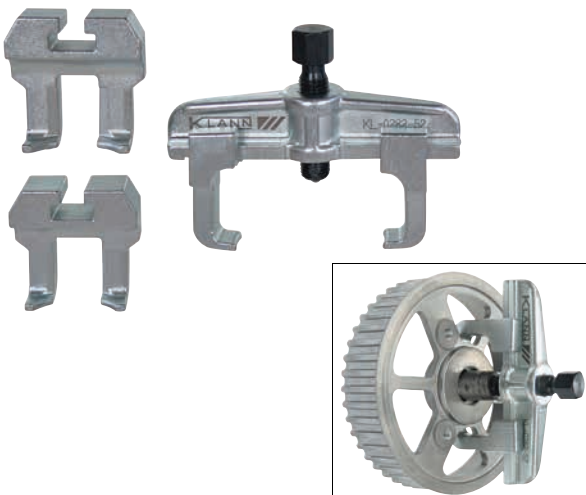
KL-0286-11

Guide Pin Set for Front-End Carrier, VW-Audi

Applicable to VW-Audi A4, A5, A6, A8, Q5, S6, Passat (3B), T5, Touareg; Seat Exeo; Škoda Superb.

When replacing a timing belt or performing an engine repair on the specified vehicles, these guide pins are used to pull the front-end carrier forwards. As a result, the removal of the front-end carrier is no longer necessary.

Note: VW T5 vehicles require the use of 4 guide pins.



Technical Data:

Drive:	17mm
Max. pulling width:	100mm
Max. pulling height:	38mm
Max. load capacity:	2t
Weight:	1.3kg

KL-0282-52 K

Puller for Timing Belt Sprockets, vw-Audi

Applicable to VW-Audi; e.g. Audi A4, A6, A8 and VW Passat etc. equipped with either a 4-, 6- or 8-cylinder engine. (Engine codes: AFB, AGA/AJG, AGR, AHF, AJK, AKE, AKN, ALF, ALH, ALW, AML, AMM, AMX, APS, AQH, AQM, ARE, ARJ, ASM, ASV, ASY, AVP, AXQ, AYM, AYQ, BAU, BBG, BCY, BCZ, BDG, BDH, BDV, BES, BFC, BFL, BFM, BGH, BGJ, BHX, BJJ, BJK, BJL, BJM, BRV, CEBA, CEBB, CECA, CECB)

The puller **KL-0282-52 K** is particularly suitable for removing 5- and 6-spoke camshaft sprockets. A selection of hooks is included in the kit to make the puller almost universal in its range of application.

Scope of Delivery: KL-0282-52 K Puller for Timing Belt Sprockets, VW-Audi

Part No.	Description	Qty
KL-0282-52	Puller for Timing Belt Sprockets	1
KL-0282-5290	Plastic Storage Case	1

Scope of Delivery: KL-0282-52 Puller for Timing Belt Sprockets, VW-Audi

Part No.	Description	Qty
KL-0282-5201	Bridge	1
KL-0282-5202	Spindle	1
KL-0282-5203	Single Hook	2
KL-0282-5204	Double Hook, 18mm	1
KL-0282-5205	Double Hook, 23mm	1

6

KL-0149-131

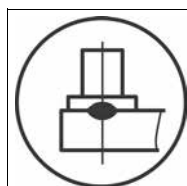
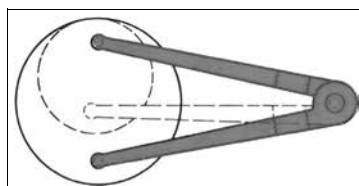
Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm

Applicable to VW-Audi, Fiat etc.

Designed to remove the pre-tension ring when installing a new SAC (Self-Adjusting Clutch) on Audi, Fiat etc.

Technical Data:

Ø:	14-100mm
Pin Ø:	5mm
Pin height:	6mm
Overall length:	215mm
Weight:	300g



KL-0284-92

Tension Pulley Spanner, Size (waf) 16mm

Universal application. Particularly useful on VW-Audi 1.9 and 2.0 TDI engines.
(Engine codes: ASZ, ATD, AXA, AXR, BLS, BLT, BMT, BPX, BUK, BXJ)

This tool is designed to pre-tension the auxiliary belt tensioner when the removal and installation of the belt is to be performed in situ on the vehicle. THE ideal spanner for use in areas where space is at a premium.

Technical Data:

Size (waf):	16mm
Length:	295mm

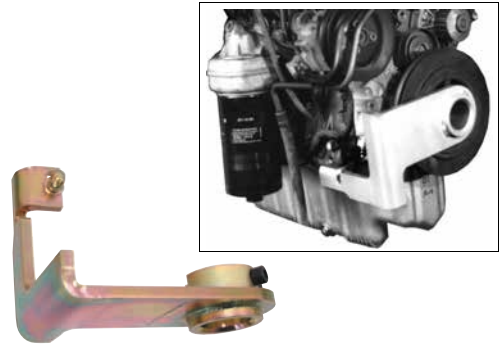


KL-0280-12

Locking Tool for Crankshafts, VW-Audi

Applicable to VW-Audi engines; e.g. 2.5 5-cylinder Diesel engines as installed in VW T4. (Engine codes: ACV, AET, AGX, AHD, AHY, AJT, ANJ, APA, APL, AUF, AVR, AVT, AXG, AXL, AYC, AYY, BBE, BBF)

Designed to lock the crankshaft (crankshaft pulley) when loosening or tightening the central retaining screw (for example when replacing a timing belt).



KL-0284-17

Adjuster for Timing Belt Tensioner,

Size (waf) 32mm

Suitable for use on the VW-Audi 2.4 and 2.5 5-cylinder TDI engines as found in Audi A6, VW T4, also applicable for Volvo etc.

(Engine codes: ACV, AET, AGX, AHD, AHY, AJA, AJT, ANJ, APA, APL, AUF, AVR, AVT, AXG, AXL, AYC, AYY, BBE, BBF, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB)

For tensioning and relieving the tension on the automatic timing belt tensioner pulley.



Technical Data:

Length:	175mm
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KL-0284-14

Torx® Universal Joint Socket T45

Applicable to VW-Audi vehicles, ideal for use on:

- VW Golf (III) - petrol engines as from 85 kW (115bhp) onwards and all Diesel engines.
- Audi 80, A4 - petrol engines with 85 kW (115bhp) and double fan.
- Audi 80, A4 - Diesel engines with double fan.

Designed to loosen the timing belt tensioner clamping screw on toothed belt drives.



KL-0126-10

Timing Belt Tension Test Gauge

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

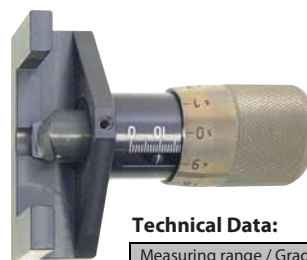
Mechanical control

The **KL-0126-10** belt tension test gauge enables controlled adjustment of the belt pre-tension on combustion engines.

The tool is applicable to any vehicle with available specifications and data of admitted belt deflexion in mm at a specified force in N or kp.

Advantages:

- Easy to use.
- Compact metal-based design.
- Controlled adjustment of the pre-tension of the timing belt.
- Double reading possibility (on front and rear side).



Technical Data:

Measuring range / Graduated scale:	0-20mm
Graduation of the scale:	in mm
Measurement method:	mechanical (spring)
360° revolution of adjusting knob:	1mm
Graduation of adjusting knob (Nonius):	1/10mm
Load capacity of the piston by the spring force at 1 revolution of the adjusting knob:	10 N (1 kp)
Weight:	344g



Advantages:

- No damage to the vibration damper.
- Substantial time savings.

KL-0282-51

Puller for Vibration Damper

Suitable for use on VW 5-cylinder engines with ribbed V-belt; e.g. T4, LT etc.

Designed for the removal of the vibration damper with the timing belt sprocket being pushed back at the same time. This puller is absolutely indispensable if the shoulder of the crankshaft sprocket is seized up in the vibration damper.

The tool can also be used with the engine installed in the vehicle.



KL-0280-766 K

Locking Tool Set, VW 1.0

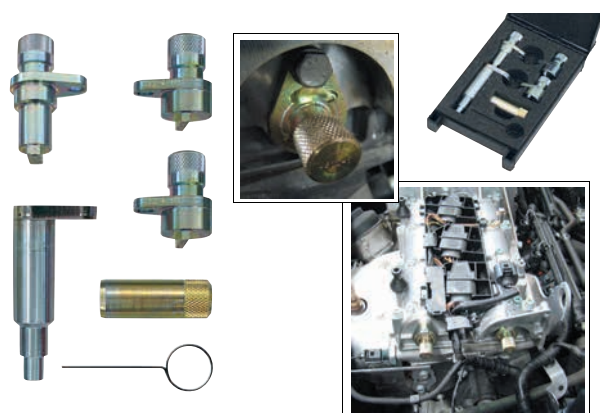
Applicable to VW, Seat and Škoda 1.0 (3-cylinder) petrol engines as fitted to VW Polo, up!; Seat Mii, and Škoda Citigo. (Engine codes: CHYA, CHYB, CPGA)

For the locking/positioning of camshafts, crankshaft and timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-766 K Locking Tool Set, VW 1.0

Part No.	Description	Qty
KL-0284-171	Adjustment Tool for Timing Belt Tensioner, Size (waf) 30mm	1
KL-0280-7661	Locking Tool for Camshaft	1
KL-0280-7662	Locking Tool for Camshaft Sprockets	1
KL-0280-6022 A	Locking Screw for Crankshaft	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



KL-0280-108 KB

Locking Tool Set, VW 3-Cylinder Engines, VW-Audi/Seat/Škoda

Applicable to VW, Seat, Škoda 1.0, 1.2 6V and 1.2 12V 3-cylinder petrol engines both with SingleCam and TwinCam as found in VW Polo, Fox; Seat Arosa, Ibiza, Cordoba and Škoda Fabia, Roomster etc.

This tool set is designed for the locking of camshafts, crankshaft and timing chain tensioner. Indispensable tools when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-108 KB Locking Tool Set, VW 3-Cylinder

Part No.	Description	Qty
KL-0280-1081 B	Locking Pin for Camshaft	1
KL-0280-1082 B	Locking Pin for Camshaft	2
KL-0280-1083 A	Locking Pin for Crankshaft	1
KL-0280-1084 B	Locking Pin, Ø 18mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-1089	Plastic Storage Case	1

6

(Engine codes: AHT, AWY, AZQ, BBM, BMD, BME, BXV, BZG, CEVA, CGPA, CGPB, CHFA, CHFB)

Technical Data:

Weight:	600 g
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KL-0280-767 K

Locking Tool Set, VW 1.2/1.4 TSI/FSI

Applicable to VW-Audi, Seat, Škoda vehicles with either a 1.2 or 1.4 TSI/FSI petrol engine; e.g.: Audi A1 (8X), A3 (8V); VW Golf VII (5G, BE), Golf SV/Sportsvan (AM), Polo V (6R, 6C); Seat Leon (5F), Ibiza (6J); Škoda Octavia III (5E).

For locking the camshafts, crankshaft and auxiliary drive belt tensioner (V-ribbed belt). The set also includes special tools to position the timing belt tensioner and push against the timing belt to ease the insertion of the camshaft locking tool. An indispensable tool set when replacing a timing belt or timing chain, and when performing an engine repair.

Scope of Delivery: KL-0280-767 K Locking Tool Set, VW 1.2/1.4 TSI/FSI

Part No.	Description	Qty
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-6022 A	Fixing Screw for Crankshaft	1
KL-0284-171	Adjustment Tool for Timing Belt Tensioner, Size (waf) 30mm	1
KL-0280-7671	Locking Tool, Camshaft	1
KL-0280-7672	Locking Tool, Camshaft	1
KL-0280-7673	Special Tool for Camshaft	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1

KL-0280-602 KC

Locking Tool Set, VW-Audi

Applicable to VW-Audi 1.2 TSI/TFSI, 1.4 FSI / TSI / TFSI and 1.6 FSI petrol engines; as installed in VW Polo, Golf, Golf Plus, Touran; Audi A3; Škoda Octavia; Seat Altea, Ibiza, Leon.

(Engine codes FSI: AXU, BAG, BKG, BLF, BLN, BLP, BMY, BTS; TSI: CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CBZB, CBZC, CDGA, CKMA, BLG, BMY, BWK; TFSI: CAVG, CAXA, CAXC, CBZA)

This tool set is used for the locking and positioning of camshafts, crankshaft and timing chain tensioner.

Necessary for checking and adjusting the camshaft timing, for example, when replacing a timing chain or during an engine repair.

Scope of Delivery:

KL-0280-602 KC Locking Tool Set, VW-Audi

Part No.	Description	Qty
KL-0280-6021 A	Setting Gauge for Camshaft	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-1681-111	Adaptor (M14x1.25) for TDC Positioning	1
KL-0280-6022	Locking Screw for Crankshaft	1
KL-0280-6023	Locking Pin for Camshaft	1
KL-0280-6029 A	Platic Storage Case	1



KL-0184-022

Counter-Holding Tool, VW

Universal application.

Essential tool for the VW-Audi, Seat, and Škoda 1.2, 1.4 and 1.6 litre petrol engines with 2- or 4-valve technology as well as for Škoda 1.9 SDI Diesel engines. Installed in: VW Beetle, Bora, Caddy/Caddy Maxi, Eos, Fox, Golf, Golf Plus, Golf VI Cabrio, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A2, A3, A3 Convertible; Seat Alhambra, Altea/Altea XL, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo; Škoda Fabia, Fabia II, Octavia II, Octavia/Octavia Tour, Praktik, Roomster, Superb II, Yeti.

(Engine codes: AFK, AHW, APE, AQQ, ARR, ASY, AUA, AUB, AUS, AVY, AWY, AXP, AXU, AZD, AZQ, BAD, BAG, BBM, BBY, BBZ, BCA, BCB, BKG, BKY, BLF, BLG, BLN, BLP, BMD, BME, BMY, BTS, BUD, BWK, BXW, BZG, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CBZA, CBZB, CDGA, CGGA, CGGB, CGPA, CGPB, CHFA, CHFB, CKMA, CMAA)

This tool is designed to counter-hold pulleys, timing belt sprockets etc.

It is required when loosening/tightening the fastening screw.

The locking takes place either via the pins (Ø 11.5mm) which engage the holes of the pulleys/timing belt sprockets, or by fixing the counter-holding tool to the crankshaft timing belt sprocket by means of the M8 bolts.

Thanks to its special length of 704mm, this tool allows even very tight-fitting or stubborn fastening screws to be loosened with ease.

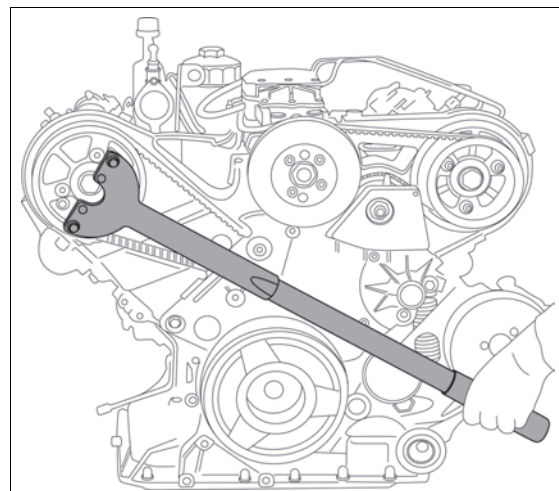
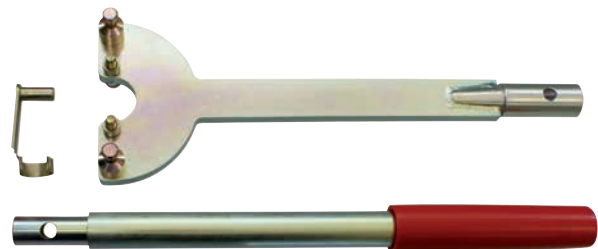
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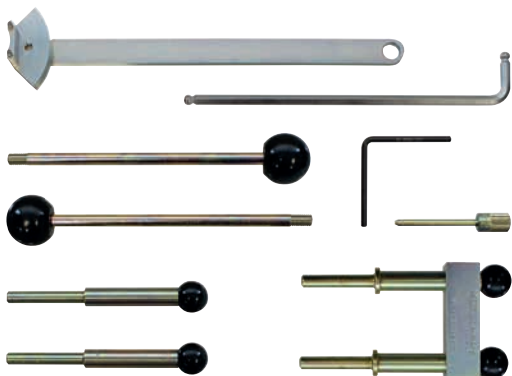
Overall length (of assembled tool):	704mm
Length of base tool:	351mm
Length of extension tube with protective handle:	403mm
Pin Ø:	11.5mm
Pin pitch:	99.5mm
Pin height:	31.5mm
Bolt thread:	M8
Bolt pitch:	45.5mm
Bolt height:	18mm

Scope of Delivery:

KL-0184-022 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0220	Counter-Holding Tool (Base Tool with Bolts)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1





KL-0280-751 K

Locking Tool Set, VW 1.4 and 1.6 16V

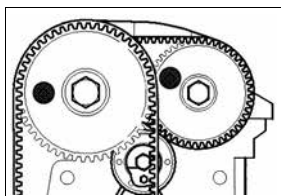
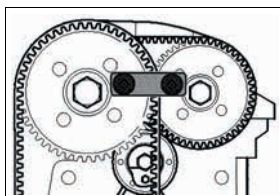
Suitable for use on VW-Audi, Seat and Škoda vehicles equipped with either a 1.4 16V or 1.6 16V petrol engine; such as Audi A2, A3, A4; VW Beetle, Bora, Caddy, Fox, Golf, Golf Plus, Jetta, Lupo, Passat, Polo, Touran; Seat Altea, Arosa, Cordoba, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Fabia II, Octavia II, Roomster etc. (Engine codes: 1F, AEE, AEH, AEX, AFK, AHW, AKL, AKS, AKV, ALM, ALZ, AME, APE, APF, APQ, AQQ, AQW, ARR, AUA, AUB, AUD, AUS, AVU, AVY, AXP, AYD, AZD, AZE, AZF, BAD, BAH, BBY, BBZ, BCA, BCB, BFG, BFS, BGU, BKR, BKY, BLM, BSE, BSF, BUD, BXW, CCSA, CGGA, CGGB, CHGA, CMAA, CMXA)

Designed for the locking/positioning of camshafts, timing belt tensioners and auxiliary drive belt tensioners (Ribbed V-belt).

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0280-751 K Locking Tool Set, VW 1.4 and 1.6 16V

Part No.	Description	Qty
KL-0280-21	Locking Pin Set, VW-Audi (2-pc)	1
KL-0280-17	Locking Tool for Camshaft, VW-Audi	1
KL-0280-2202 A	Special Hexagon Socket Key, Size (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, VW-Audi, Seat, Škoda	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0286-11	Guide Pin Set for Front-End Carrier (2-pc)	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



KL-0280-63 K

Locking Tool Set, VW-Audi

Applicable to VW-Audi 1.4 16V, 1.4 FSI, 1.6, 1.6 16V, 1.6 FSI, 1.8 Turbo, 1.8 Turbo 20V, TFSI, 2.4, 2.7 Turbo and 2.8 petrol engines; as can be found on VW Beetle, Bora, Caddy, Eos, Golf, Jetta, Lupo, Passat, Polo, Sharan, Touran; Audi A3, A4, A6, A8, RS4, S3, S4, TT; Škoda Fabia, Oktavia, Superb; Seat Alhambra, Altera, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo.

(Engine codes: AEB, AEG, AEH, AFK, AGA, AGB, AGE, AGN, AGU, AHL, AHW, AJG, AJH, AJK, AJL, AJQ, AKL, AKQ, ALF, ALG, ALT, ALW, ALZ, AMB, AMK, AML, AMM, AMX, ANA, ANB, APC, APE, APF, APG, APK, APP, APR, APS, APT, APU, APX, APY, APZ, AQA, AQD, AQQ, AQX, AQY, ARC, ARE, ARJ, ARM, ARN, ARR, ARX, ARY, ARZ, ASJ, ASM, ATM, ATN, ATZ, AUA, AUB, AUM, AUQ, AUR, AUS, AVJ, AVU, AVY, AWA, AWC, AWT, AXP, AXU, AXW, AXX, AYD, AYP, AZD, AZH, AZJ, AZL, AZM, AZR, BAD, BAG, BAM, BBG, BBU, BBY, BBZ, BCA, BCB, BDV, BEH, BES, BEX, BFB, BFG, BFS, BGB, BGU, BHD, BJX, BKG, BKV, BKY, BLF, BLN, BLP, BLR, BLX, BLY, BLZ, BMB, BPG, BPJ, BPY, BSE, BSF, BUD, BUL, BVX, BVY, BVZ, BWA, BWE, BWJ, BWT, BXW, BYK)

Tool set for the locking/positioning of engine shafts such as camshafts and crankshaft. It can also be used to lock/position and adjust the timing belt tensioner as well as to lock the ribbed V-belt tensioning element. The guide pins included in the set are required to pull the front-end carrier forwards. As a result, the removal of the front-end carrier is no longer necessary.

Scope of Delivery: KL-0280-63 K Locking Tool Set, VW-Audi

Part No.	Description	Qty
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, pin Ø 5mm	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-16	Holding Tool	1
KL-0280-17	Locking Tool for Camshaft, VW-Audi	1
KL-0280-21	Locking Tool for Camshaft, (2 pcs.)	1
KL-0280-221	Locking Pin (angled), Ø 4mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-6013 A	Tension Screw with Sleeve	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6103	Locking Pin, Ø 8mm	1
KL-0284-91	Tensioner Spanner, VW-Audi	1
KL-0286-11	Guide Pin Set for Front-End Carrier, VW-Audi	1
KL-0280-6390	Plastic Storage Case	1

KL-0280-17

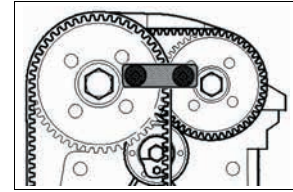
Locking Tool for Camshaft, VW-Audi

Applicable to VW-Audi, Seat, Škoda 1.4 and 1.6 petrol engines, as found in VW Lupo, Polo, Golf, Bora; Audi A2 etc.

(Engine codes: AFK, AHW, APE, AQQ, ARR, AUA, AUB, AUS, AVY, AXP, AZD, BBY, BBZ, BCA, BCB, BKY, BUD, BXW, CGGA, CGGB, CMAA etc.)

Designed to lock both camshaft sprockets in place.

Required when replacing a timing belt or during an engine repair.



Technical Data:

Weight:	340g
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KL-0280-21

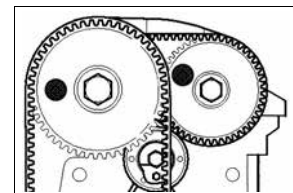
Locking Pin Set, VW-Audi

Applicable to VW-Audi 1.4 and 1.6 petrol engines as found in VW Lupo, Polo, Golf (IV), Bora; Audi A2.

(Engine codes: AHW, APE, AQQ, ARR, AUA, AUB, AVY, AZD, BAD, BBY, BBZ, BCA, BBC, BKY, BUD etc.)

Designed to lock both camshaft sprockets in place.

Required when replacing a timing belt or during an engine repair.



Technical Data:

Weight:	160g
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KL-0184-023

Counter-Holding Tool, VW

Applicable to VW 1.4 16V and 1.6 16V petrol engines; as installed in VW Beetle, Bora, Caddy/Caddy Maxi, Golf, Lupo, Polo.

This tool is used to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw.



Technical Data:

Overall length (of assembled tool):	739mm
Length of extension tube with protective handle:	403mm
Length of base tool:	386mm

(Engine codes: AHW, APE, AQQ, ARC, ARR, ATN, AUA, AUB, AUS, AVY, AZD, BBY, BBZ, BCA, BCB, BKY, BUD)

Scope of Delivery: KL-0184-023 Counter-Holding Tool, VW

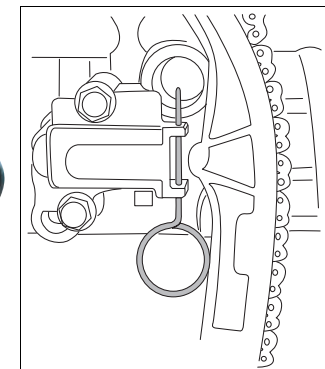
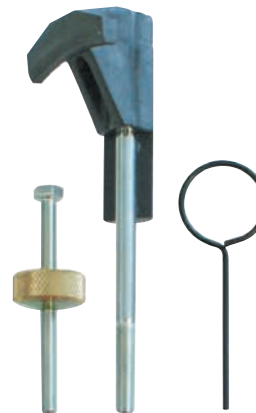
Part No.	Description	Qty
KL-0184-0230	Counter-Holding Tool (base tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1

KL-0280-601 A

Locking Tool Set, VW-Audi/Seat/Škoda

Suitable for use on VW-Audi, Seat, Škoda 1.8 and 1.8 T TwinCam petrol engines (engine codes: ADR, AEB, AFY, AGN, AGU, AJH, AJL, AJP, AJQ, AMK, ANB, APG, APP, APT, APU, APX, APY, AQA, AQX, ARG, ARX, ARY, ARZ, AUM, AUQ, AVC, AWC, AWP, AWU, AWV, AYP and BAM) as well as 2.4, 2.7 and 2.8 V6 petrol engines (engine code: AGA, AGB, AGE, AJG, AJK, ALF, ALG, ALW, AML, AMM, AMX, APC, APR, APS, APZ, AQD, ARE, ARJ, ARN, ASJ, ASM, AZA, AZR, BDV and BES); as found in Audi A3, A4, A6, TT, S3; Seat Ibiza, Cordoba, Leon, Toledo, Alhambra; Škoda Ocatvia; VW Beetle, Golf, Bora, Passat, Sharan.

This tool set is designed to adjust camshaft timing chains and timing belt tensioners. It is required when changing a timing belt or a timing chain, and for engine repairs.



Scope of Delivery: KL-0280-601 A Locking Tool Set, VW-Audi/Seat/Škoda

Part No.	Description	Qty
KL-0280-6011 A	Holding Tool for Timing Chain Tensioner	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-6013 A	Tension Screw with Sleeve	1



(Engine codes: AAC, AEG, AGN, AGU, AJQ, AKR, ALT, AMB, AMK, APG, APK, APP, APT, APY, AQA, AQY, ARX, ARY, ARZ, ATM, AUM, AUQ, AVC, AVJ, AWC, AWF, AWG, AWT, AWU, AXA, AZG, AZH, AZJ, AZL, AZM, BAM, BBU, BBX, BEH, BEX, BFB, BFV, BJX, BKV, BLZ, BSX, BVP, BVR, CFMA)

KL-0280-752 K

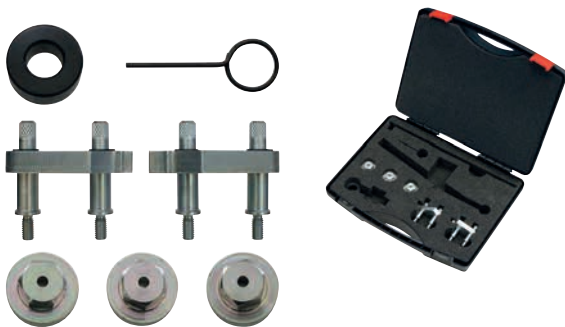
Locking Tool Set, VW 1.8 and 2.0

Applicable to VW-Audi, Seat and Škoda vehicles equipped with either a 1.8 or 2.0 petrol engine; such as VW Beetle, Bora, Caddy, Golf IV Cabrio, Golf, Passat, Polo, Sharan, Touran, Transporter T4, Transporter T5; Audi A3/S3, A4, A6, TT; Seat Alhambra, Cordoba, Exeo, Ibiza, Leon, Toledo and Škoda Fabia, Octavia, Superb etc.

Designed to be used for the locking/positioning of camshafts and crankshaft, as well as for tensioning/relieving the tension on ribbed V-belts. An indispensable tool set when replacing a timing belt or timing chain, and during engine repairs.

Scope of Delivery: KL-0280-752 K Locking Tool Set

Part No.	Description	Qty
KL-0280-7521	Hex Screw, M5x60mm, with Nut	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-16	Holding Tool	1
KL-0280-2202 A	Special Hexagon Socket Key, Size (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6011 A	Holding Tool for Timing Chain Tensioner	1
KL-0280-6013 A	Tension Screw with Sleeve	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6103	Locking Pin, Ø 8mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, VW-Audi, Seat, Škoda	1
KL-0284-92	Tension Pulley Spanner (waf 16mm)	1
KL-0286-11	Guide Pin Set for Front-End Carrier	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



(Engine codes: BYT, BZB, CABA, CABB, CABD, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CGYA)

KL-0280-762 K

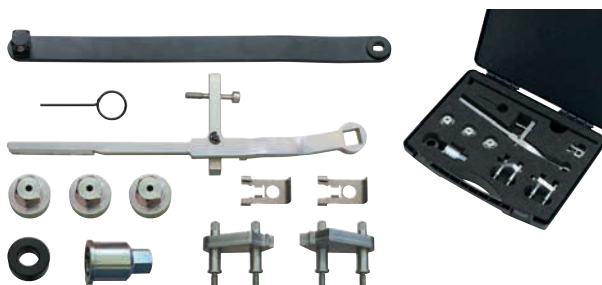
Locking Tool Set, VW 1.8 and 2.0 TFSI/TSI

Applicable to VW-Audi vehicles equipped with either a 1.8 or 2.0 TFSI/TSI petrol engine such as: Audi A3, A4, A5, Q5, TT; VW Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan; Seat Altea, Exeo, Leon, Toledo; Škoda Octavia II, Superb II, Yeti.

Designed for the locking/positioning of camshafts, as well as for the locking of the timing chain tensioner. The kit also includes tools for the removal and installation of the 4/3-way central valve found in camshaft phasing units. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-762 K Locking Tool Set, VW 1.8 and 2.0 TFSI/TSI

Part No.	Description	Qty
KL-0280-7621	Locking Tool for Camshaft (2 units)	1
KL-0280-7622	Removal/Installation Tool Set for Cam Phaser Central Valve (3-piece set)	1
KL-0280-7623	Pressure Piece	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-7639	Plastic Storage Case	1



(Engine codes: BYT, BZB, CABA, CABB, CABD, CADA, CAEA, CAEB, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CJEB, CJS, CJSB)



KL-0280-763 K

Locking Tool Set, VW 1.8 and 2.0 TFSI/TSI

Applicable to VW-Audi vehicles equipped with either a 1.8 or 2.0 TFSI/TSI petrol engine such as: Audi A3, A4, A5, Q5, TT; VW Eos, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan; Seat Altea, Exeo, Leon, Toledo; Škoda Octavia II, Superb II, Yeti.

Designed for the locking/positioning of camshafts, as well as for the locking of the timing chain tensioner. The kit also includes tools for the removal and installation of the 4/3-way central valve found in camshaft phasing units. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-763 K Locking Tool Set, VW 1.8, 2.0 TFSI / TSI

Part No.	Description	Qty
KL-0280-7622	Removal/Installation Tool Set for Cam Phaser Central Valve (3-piece set)	1
KL-0280-7623	Pressure Piece	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-7621	Locking Tool for Camshaft (2 units)	1
KL-0280-7631	Mounting Lever	1
KL-0280-7632	Locking Tool for Chain Tensioner	1
KL-0280-7633	Camshaft-Turning Tool	1
KL-0280-7639	Plastic Storage Case	1

KL-0184-025 Counter-Holding Tool, VW

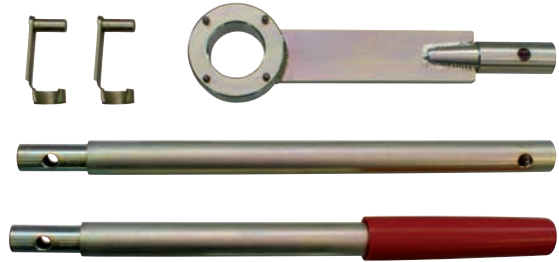
Applicable to VW-Audi, Seat, Škoda vehicles equipped with either a 1.8 or 2.0 TSI/TFSI engine; such as VW Golf, Eos, Jetta, Passat, Passat CC, Scirocco, Sharan, Tiguan; Audi A3, A4, A5, Q5, TT; Seat Toledo, Altea/Altea XL, Exeo, Leon; Škoda Octavia II, Superb II, Yeti.

(Engine codes: BYT, BZB, CABA, CABB, CABD, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CGYA)

For counter-holding the crankshaft vibration damper while loosening and tightening the crankshaft central screw.

Scope of Delivery: KL-0184-025 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0250	Counter-Holding Tool (Base Tool with Pins)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	1
KL-0184-0103	Folding Spring Bolt	2



Technical Data:

Length of assembled tool:	980mm
Length of base tool:	276mm
Length of extension tube:	400mm
Length of extension tube with protective handle:	403mm

KL-0280-765 K Locking Tool Set, VW 2.0

Applicable to VW-Audi vehicles equipped with a 2.0 TFSI / FSI / TSI petrol engine; such as Audi A3, A4, A6, S3, TT; VW Eos, Golf, Jetta, Passat, Scirocco, Touran; Seat Altea, Exeo, Leon, Toledo; Škoda Octavia II.

(Engine codes: AWA, AXW, AXX, BGB, BHD, BHZ, BLR, BLX, BLY, BMB, BPG, BPJ, BPY, BUL, BVX, BVY, BVZ, BWA, BWA1, BWE, BWJ, BWT, BYD, BYK, BZC, CDLA, CDLB, CDLC, CDLF, CDMA)

Designed for the locking/positioning of camshafts, as well as of the timing belt-, ribbed V-belt- and timing chain tensioners. The kit also includes tools to loosen/tighten camshaft phasing units. An indispensable tool set when replacing a timing belt/timing chain or performing an engine repair.

Scope of Delivery: KL-0280-765 K Locking Tool Set, VW 2.0

Part No.	Description	Qty
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-221	Locking Pin (angled), Ø 4mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-6013 A	Tension Screw with Sleeve	1
KL-0280-7651	Locking Tool for Camshaft	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner	1
KL-0286-11	Guide Pin Set	1
KL-4051-3010	Screwdriver Bit Socket	1
KL-0280-7659	Plastic Storage Case	1



6

KL-0280-753 K Locking Tool Set, VW 2.3 20V

Suitable for use on VW and Seat vehicles equipped with a 2.3 VR5 petrol engine; such as VW Beetle, Bora, Golf, Passat; Seat Toledo, LT etc.
(Engine codes: AGL, AGZ, AQN, AZX)

Designed for the locking/positioning of camshafts, as well as of the timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-753 K Locking Tool Set, VW 2.3 20V

Part No.	Description	Qty
KL-0280-951 A	Setting Gauge for Camshafts, VW-Audi	1
KL-0280-7531	Locking Pin, Ø 6mm	1
KL-0280-7532	Wedge	1
KL-0280-7533	Open End Spanner, Size (waf) 29mm	1
KL-4990-1107	Plastic Storage Case	1





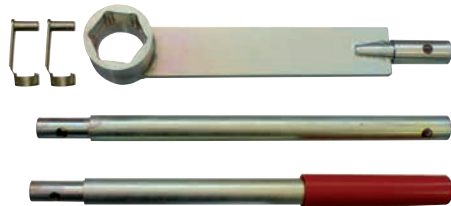
(Motorcode:
AES, AGZ, AQN, AUE, AYL, AZX, BDE, BHE, BHT, BSB, BTE etc.)

KL-0280-951 A

Setting Gauge for Camshafts, VW-Audi

Suitable for use on VW-Audi 2.3, 2.8, 2.9, 3.2 and 6.0 litre petrol engines as found in VW Golf, Bora, Vento, Corrado, Passat, Sharan, Transporter; Seat Leon, Toledo, Alhambra; Ford Galaxy.

This tool is designed for the locking/positioning of camshafts. It is required when changing timing chains and for engine repairs.



(Engine codes: AGZ, AQN, AUE, AXZ, AYL, AYT, AZZ, BAA, BAN, BAP, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHK, BHL, BHT, BJN, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BRN, BRP, BSB, BTE, BTT, BUB, BWS, CBRA)

Technical Data:

Length of assembled tool:	1.06m
Length of extension tube with protective handle:	403mm
Length of extension tube:	400mm
Length of base tool:	361mm

KL-0184-024

Counter-Holding Tool, VW

Applicable to VW-Audi, Seat vehicles, and Ford Galaxy equipped with either a 2.3, 2.8, 3.2, 3.6, 4.0 or 6.0 litre engine; such as VW Beetle, Bora, Sharan, Eos, Golf, Touareg, Transporter T5, Passat CC, Passat, Phaeton; Audi A3, A8, Q7, TT; Seat Alhambra, Leon, Toledo; Ford Galaxy.

Designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

Scope of Delivery: KL-0184-024 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0240	Counter-Holding Tool (base tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	1
KL-0184-0103	Folding Spring Bolt	2

6



KL-0280-764 K

Locking Tool Set, VW-Audi 2.4

Applicable to Audi vehicles equipped with a 2.4 petrol engine such as Audi A6, A6 Quattro etc. (Engine code: BDW)

Designed for the locking/positioning of camshafts, timing chain tensioner and crankshaft. The kit also includes tools to counter-hold, loosen/tighten camshaft sprockets /the camshaft phasing unit. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-764 K Locking Tool Set, VW-Audi 2.4

Part No.	Description	Qty
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, Pin, Ø 5mm	1
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, (5-piece set)	1
KL-0280-7561	Camshaft Locking Tool Set	1
KL-0280-7562	Locking Pin, M14x1.5	1
KL-0280-7593	Socket Insert, XZN-M14	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1

KL-0280-754

Locking Tool Set, VW 2.4, 2.7 and 2.8 30V

Suitable for use on VW-Audi and Škoda vehicles equipped with either a 2.4, 2.7 or 2.8 litre V6 petrol engine with 30 valves; such as VW Passat; Audi A4, A6, A6 Allroad etc.

Designed for the locking of camshafts, crankshaft and timing belt/V-ribbed belt tensioners. The kit also includes a tool to counter-hold the pulley when removing/installing the Viscous fan. An indispensable tool set when changing a timing belt/cam timing chain or performing an engine repair.

Scope of Delivery: KL-0280-754 Locking Tool Set, VW 2.4, 2.7 and 2.8 30V

Part No.	Description	Qty
KL-0280-7540 K	Locking Tool Set, VW 2.4, 2.7 and 2.8 30V	1
KL-0280-13	Locking Tool, Audi	1



(Engine codes: AGA, AJG, AJK, ALF, ALW, AML, AMM, AMX, APS, ARE, ARJ, ASM, BBG, BDV, BES)

KL-0280-7540 K Locking Tool Set, VW 2.4, 2.7 and 2.8

Application as KL-0280-754; however the set does not include the KL-0280-13 locking tool for camshafts.

Scope of Delivery: KL-0280-7540 K Locking Tool Set, VW 2.4, 2.7 and 2.8

Part No.	Description	Qty
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6011 A	Holding Tool for Timing Chain Tensioner	1
KL-0286-11	Guide Pin Set for Front-End Carrier	1
KL-0280-7541	Crowfoot Wrench, Size (waf) 32mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



KL-0280-130 Locking Tool Set, Audi 2.4, 2.7, 2.8 V6

Suitable for use on vehicles equipped with either a V6 2.4, 2.7 or 2.8 (5-valve) VW-Audi petrol engine; such as Audi A4, A6; VW Passat; Škoda Superb. (Engine codes: AGA, AJG, AJK, ALF, ALG, ALW, AML, AMM, AMX, APS, ARE, ARJ, ASM, BBG, BDV, BES)

Designed for the locking of engine shafts such as camshafts and crankshaft. This tool set is required when replacing a timing belt or during an engine repair.

Scope of Delivery: KL-0280-130 Locking Tool Set Audi 2.4, 2.7, 2.8 V6

Part No.	Description	Application:
KL-0280-13	Locking Tool Audi V6 30V	Audi V6 2.4, 2.7 and 2.8 (5-valve) petrol engines. Engine codes: ALF, AMM, BDV
KL-0280-10	Locking Pin, Audi V6	VW-Audi V6 petrol engines and V6/V8 Diesel engines. (engine codes: ABC, AKE)



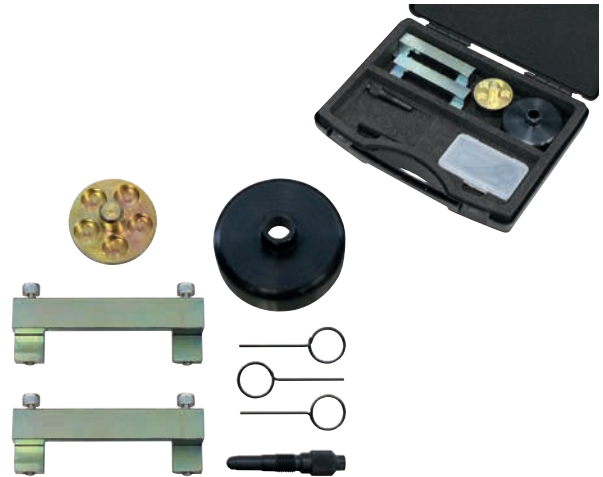
KL-0280-756 K Locking Tool Set, 2.5 TFSI

Suitable for use on VW-Audi vehicles equipped with a 2.5 5-cylinder TFSI petrol engine; such as Audi TT, RS3 etc. (Engine codes: CEPA, CEPB)

This tool set is designed for the locking/positioning of camshafts, crankshaft and timing chain tensioner. Also includes a tool to pre-tension the timing chain. An indispensable tool kit when changing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-756 K Locking Tool Set, 2.5 TFSI

Part No.	Description	Qty
KL-0280-7562	Locking Pin, M14x1.5	1
KL-0280-7561	Locking Tool Set for Camshaft	1
KL-0280-7565	Tool for Timing Chain	1
KL-0280-7563	Adaptor for Crankshaft	1
KL-0280-7564	Retaining Pin Set, Ø 3mm (3-pc.)	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



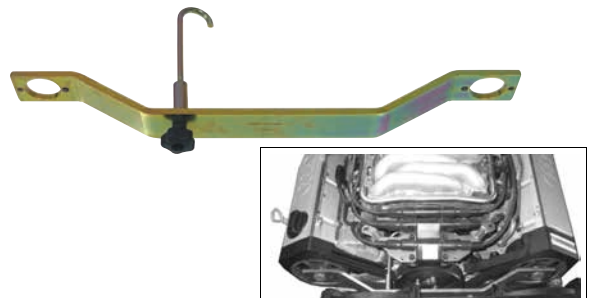
KL-0280-11 Locking Tool, Audi 2.6 V6

Applicable to Audi 2.6 V6 petrol engines with 2 valves per cylinder. (Engine code: ABC)

Designed to lock the camshafts when, for example, replacing a timing belt or performing an engine repair.

Technical Data:

Weight:	1.9kg
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KL-0280-759 K

Locking Tool Set, VW 2.8, 3.0, 3.2 V6 FSI

Suitable for use on VW-Audi vehicles equipped with either a 2.8, 3.0 or 3.2 V6 FSI petrol engine; such as VW Touareg and Audi A4, A5, Q5, A6, A6 allroad, A8 etc. (Engine codes: BDX, CAJA, CALA, CALB, CCAA, CCDA, CCEA, CGEA, CJBA)

Designed for the locking/positioning of camshafts, crankshaft, balance shaft and timing chain tensioner. An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0280-759 K Locking Tool Set, VW 2.8, 3.0, 3.2 V6 FSI

Part No.	Description	Qty
KL-0280-7591	Locking Tool for Camshafts (2-pc.)	1
KL-0280-7592	Guide Pin Set (2-pc)	1
KL-0280-7593	Socket Insert, XZN-M14	1
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, Ø 3mm (5-pc)	1
KL-0280-7053	Crankshaft-Turning Tool	1
KL-0280-7562	Locking Pin, M14x1.5	1
KL-0280-6103	Locking Pin, Ø 8mm	1
KL-0149-131	Pin-Type Face Spanner, Ø14-100mm, pin Ø 5mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1

6



KL-0280-755 K

Locking Tool Set, VW 2.8, 3.2, 4.0 and 6.0

Applicable to VW-Audi, Seat and Ford Galaxy 2.8, 3.2 VR6, 4.0 W8 and 6.0 W12 petrol engines as found in: VW Bora, Sharan, Eos, Golf, Transporter T4, Transporter T5, Passat, Phaeton, Touareg; Audi A3, TT, A8; Seat Alhambra, Leon, and Ford Galaxy etc.

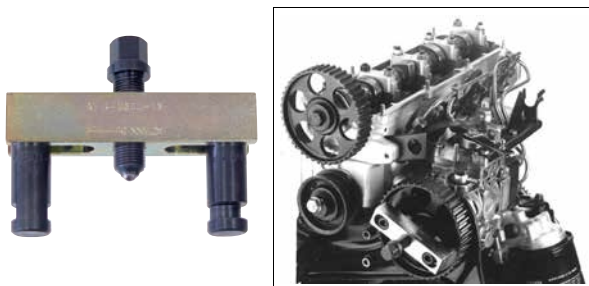
(Engine codes: AES, AUE, AYL, AYT, AZZ, BAA, BAN, BAP, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHT, BJN, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BRN, BRP, BSB, BTE, BTT, BUB, CBRA)

Professional tool set for the locking/positioning of camshafts, crankshaft and timing chain tensioner. Indispensable when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0280-755 K Locking Tool Set, VW 2.8, 3.2, 4.0 and 6.0

Part No.	Description	Qty
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-951 A	Setting Gauge for Camshafts, VW-Audi	1
KL-0280-7551	Camshaft Alignment Tool (2-piece set)	1
KL-0280-7552	Chain Tensioner-Holding Tool	1
KL-4990-1107	Plastic Storage Case	1



KL-0282-1

Puller for Timing Belt Sprocket

Universally suitable for use on all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm.

Note: The hole Ø must not be smaller than 20mm.

THE ideal tool for VW-Audi, Seat, Škoda, etc.

Designed to remove timing belt sprockets. Can be used, for example, for removing the injection pump sprocket from a distributor-type fuel injection pump.

Technical Data:

Pitch circle Ø:	70-100mm
Hole Ø (min.):	20mm
Drive:	waf 17mm

KL-0280-23 KA Locking Tool Set, VW-Audi

Applicable to VW-Audi 3.0 V6 TwinCam petrol engines as found in Audi A4, A6, A8. (Engine codes: ASN, AVK, BBJ)

This tool set is designed for the locking/positioning of engine shafts such as camshafts and crankshaft. Also includes tools to lock, position and adjust the timing belt tensioner.

An indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0280-23 KA Locking Tool Set, VW-Audi

Part No.	Description	Qty
KL-0280-231	Setting Gauge for Camshafts (Pair)	1
KL-0280-232	Locking Pin for Crankshaft	1
KL-0280-233	Adjustment Tool for Camshaft Sprocket	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner VW-Audi	1
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, Pin Ø 5mm	1
KL-0286-11	Guide Bolt Set	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-2390 A	Plastic Storage Case	1



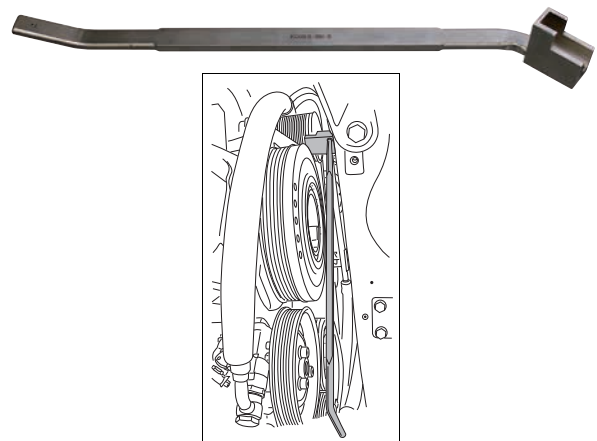
KL-0284-12 Tensioner Tool (Ribbed V-Belt)

Suitable for use on ribbed V-belts as found in VW Polo, Golf, Passat, T4 and Audi. (Engine codes: ASN, BBJ)

The **KL-0284-12** tensioner tool enables the automatic tensioner pulley to be released when replacing a ribbed V-belt.

Advantage:

The lever head attachment is reversible/interchangeable.



KL-0280-757 K Locking Tool Set, Audi 3.2 FSI

Applicable to Audi 3.2 FSI V6 petrol engines as found in Audi A4, A6, A8 etc. (Engine codes: AUK, BKH, BPK)

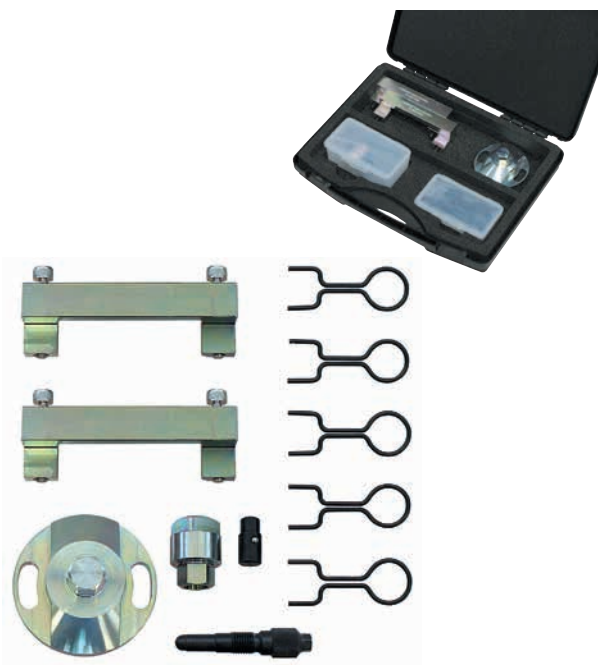
This set includes all the tools needed for the locking/positioning of camshafts and crankshaft, as well as for the locking of the timing chain tensioner.

An indispensable tool kit when replacing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0280-757 K Locking Tool Set, Audi 3.2 FSI

Part No.	Description	Qty
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, Ø 3mm (5-pc)	1
KL-0280-7053	Crankshaft-Turning Tool	1
KL-0280-7562	Locking Pin, M14x1.5	1
KL-0280-7561	Locking Tool Set for Camshaft	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1





KL-0280-758 K

Locking Tool Set, vw 3.2 and 3.6 VR6 FSI

Suitable for use on VW-Audi and Škoda vehicles equipped either with a 3.2 or 3.6 VR6 FSI petrol engine;
such as VW Passat, Touareg, Eos; Audi Q7 and Škoda Superb etc.
(Engine code: AXZ, BHK, BHL, BWS, CDVA)

Designed for the locking/positioning of camshafts and chain drive sprockets for high-pressure pump. The set also includes tools to lock the auxiliary drive belt tensioner (ribbed V-belt) in position. Indispensable tool kit when replacing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0280-758 K Locking Tool Set, VW 3.2 and 3.6 VR6 FSI

Part No.	Description	Qty
KL-0280-7582	Setting Plate	1
KL-0280-7551	Camshaft Alignment Tool Set (2-piece)	1
KL-0280-7583	Setting Tool for Fixing Drive Chain Sprockets	1
KL-0280-7581	Locking Pin (angled), Ø 4.9mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1

KL-0280-760

Locking Tool Set, vw 3.7/4.2 FSI

Suitable for use on VW-Audi vehicles equipped with either a 3.7 or 4.2 V8 FSI petrol engine;
such as VW Touareg, Phaeton and Audi S4, A6/S6/RS6, Allroad, S8 etc.
(Engine codes: ABZ, AHC, AKG, AKH, ANK, AQH, AQJ, ARS, ASG, AVP, AWW, AXQ, BAS, BAT, BBD, BBK, BCY, BFL, BFM, BGH, BGJ, BHF, BHX, BRV)

This tool set is designed for the locking/positioning of engine shafts such as camshafts and crankshaft. The kit also includes tools to lock/position and adjust the timing belt tensioner and the hall-effect sensor encoder wheel, as well as for the removal/installation of the Visco fan. Indispensable tool set when replacing a timing belt/timing chain or performing an engine repair.

Scope of Delivery:

KL-0280-760 Locking Tool Set, VW 3.7/4.2 FSI

Part No.	Description	Qty
KL-0280-7600 K	Locking Tool Set, VW 3.7/4.2 FSI	1
KL-0280-2401 A	Locking Tool for Camshaft	1

Scope of Delivery:

KL-0280-7600 K Locking Tool Set, VW 3.7 and 4.2 FSI

Part No.	Description	Qty
KL-0149-131	Pin-Type Face Spanner, Ø 14-100mm, pin Ø 5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2402 A	Adjustment Tool for Timing Belt Tensioner	1
KL-0280-6011 A	Holding Tool for Timing Chain Tensioner	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0286-11	Guide Pin Set for Front-End Carrier, VW-Audi	1
KL-0280-7053	Crankshaft-Turning Tool	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-0280-7541	Crowfoot Wrench, Size (waf) 32mm	1
KL-0280-7532	Wedge	1
KL-0280-7601	Adjustment Tool for Camshaft	1
KL-0280-7602	Locking Tool for Camshaft (2 pcs)	1
KL-0280-7603	Locking Tool for Camshaft (2 pcs)	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1107	Plastic Storage Case	1



KL-0280-24 A

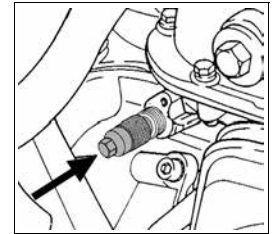
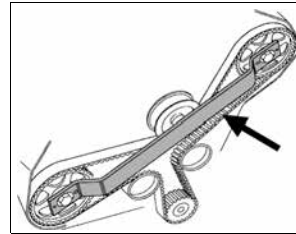
Locking Tool Set, VW-Audi 3.7 and 4.2

Suitable for use on VW-Audi 3.7 and 4.2 V8 petrol engines as found in Audi A6, S6, A8; VW Touareg, Phaeton.
(Engine codes: ABZ, AKC, ANK, AQF, AQG, AQJ, ARS, ARU, ASG, AUW, AVN, AWN, AXQ, BGH, BGJ und BHX)

This tool set is designed for the locking/positioning of engine shafts such as camshafts and crankshafts. The kit also includes tools for locking/positioning and adjusting the timing belt tensioner. It is required when replacing a timing belt or during an engine repair.

Scope of Delivery: KL-0280-24 A Locking Tool Set, VW-Audi 3.7 and 4.2

Part No.	Description	Qty
KL-0280-2401 A	Locking Tool for Camshaft	1
KL-0280-2402 A	Adjuster for Timing Belt Tensioner	1
KL-0280-10	Locking Pin, Audi V6	1
KL-0180-3017	Retaining Pin, Ø 1.7mm	1



KL-0280-761 K

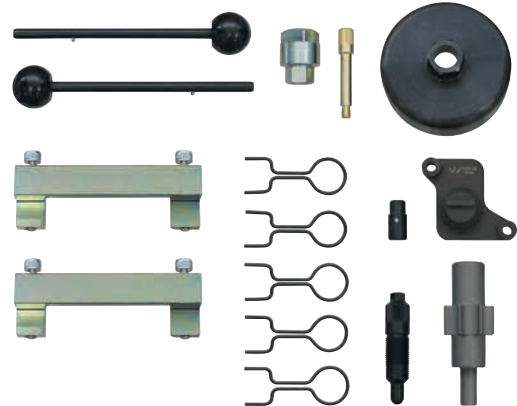
Locking Tool Set, VW-Audi 4.2, 5.0, 5.2 FSI

Applicable to VW-Audi vehicles equipped with either a 4.2 V8 FSI, 5.0 or 5.2 V10 FSI petrol engine such as VW Touareg; Audi RS4, RS6, S5 Coupé/Convertible, A6/ S6, Allroad, A8/S8, Q7, R8 etc.
(Engine codes: BAR, BNS, BSM, BUH, BUJ, BVJ, BXA, BYH, CAUA, CDRA)

The set is designed for the locking/positioning of camshafts, balance shaft, crankshaft, and timing chain tensioner. Also includes a tool to rotate the crankshaft. An indispensable tool kit when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0280-761 K Locking Tool Set, VW-Audi 4.2, 5.0, 5.2 FSI

Part No.	Description	Qty
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-7592	Guide Pin Set (2-piece set)	1
KL-0280-7565	Tool for Timing Chain	1
KL-0280-7561	Locking Tool Set for Camshaft	1
KL-0280-7051	Adaptor with Guide Pin for Crankshaft	1
KL-0280-7052	Set of Retaining Pins, Ø 3mm (5-piece set)	1
KL-0280-7612	Crankshaft-Rotating Tool	1
KL-0280-7611	Locking Tool for Balance Shaft	1
KL-0280-7613	Locking Pin, M8	1
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-2002	Plastic Storage Box, 53x107x40mm	1
KL-4990-1107	Plastic Storage Case	1



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KL-0580-711 K

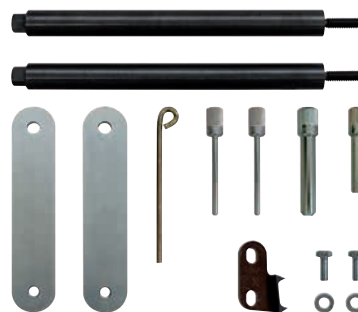
Locking Tool Set, Mini

Suitable for use on Mini 1.4 and 1.6 engines; as found in Mini Clubman, One D, Cooper D. (Engine codes: W16D16 (9HZ), W16D16U0, W17D14)

Designed for the locking/positioning of camshaft, crankshaft, high-pressure pump and flywheel. Kit also contains a tool to lock the auxiliary drive belt tensioner (ribbed V-belt). An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0580-711 K Locking Tool Set, Mini

Part No.	Description	Qty
KL-0580-7110	Support Guide Kit	1
KL-0580-7113	Locking Tool for Flywheel	1
KL-0680-2203 A	Locking Pin, Ø 8mm	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0580-1201	Retaining Pin	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1





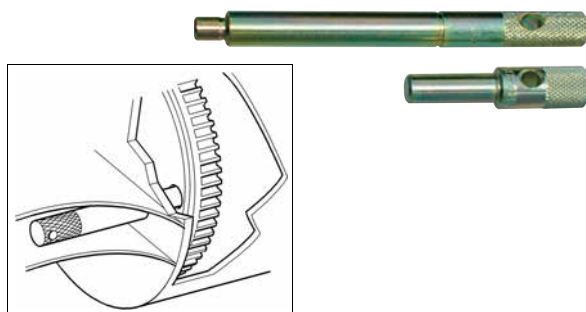
KL-0580-82 KB Locking Tool Set, BMW

Applicable to vehicles equipped with either a 1.6, 2.0 or 3.0 BMW engine such as BMW 1 Series, 3 Series, 5 Series, 7 Series, X1, X3, X5, X6; Mini Clubman, Countryman, Cooper D, Cooper SD, One D. (Engine codes: N47, N47-C16K1, N47-C16U1, N47-C20K1, N47-C20U1, N47-D20A, N47-D20C, N47-D20D, N47-D20K0, N47-D20K1, N47-D20O0, N47-D20O1, N47-D20U0, N47-D20U1, N47S-D20B, N47S-D20D, N47S-D20T0, N47T-D20K1, N47T-D20O1, N47T-D20U1, N57-D30A, N57-D30A0, N57-D30O0, N57-D30O1, N57-D30T0, N57-D30U0)

Designed for the locking/positioning of camshafts and crankshaft. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0580-82 KB Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-824 B	Locking Tool for Crankshaft	1
KL-4041-3160	Screwdriver Bit Socket, T60	1
KL-0580-1201	Retaining Pin	1
KL-0580-821 A	Locking Pin for Flywheel	1
KL-0580-822 A	Locking Tool for Camshaft	1
KL-0580-823 A	Turning Tool for Crankshaft Pulley	1
KL-0580-8290 A	Plastic Storage Case with Insert	1



KL-0580-100 Locking Tool Set, BMW

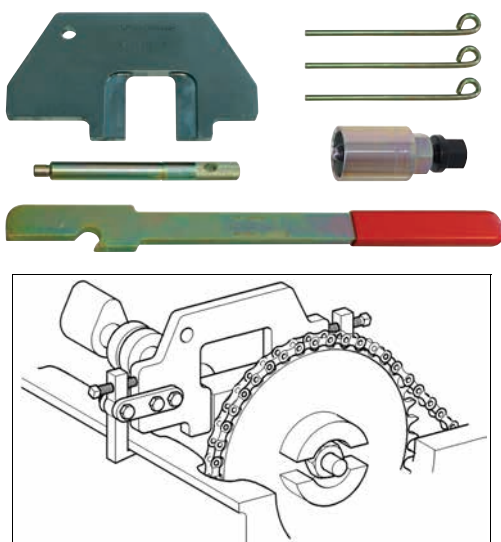
Applicable to BMW 4-cylinder diesel engines (M41), 6-cylinder diesel engines 2.5 (M51) as well as Opel/Vauxhall Omega 2.5 TD.

Designed to lock the flywheel and injection pump sprocket when replacing a timing chain or during an engine repair.

Scope of Delivery: KL-0580-100 Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-10	Locking Pin, Ø 11.8/8mm	1
KL-0580-11	Locking Pin, Ø 9.9mm	1

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KL-0580-101 Locking Tool Set, BMW

Applicable to BMW 1.7 4-cylinder and 2.5 6-cylinder Diesel engines as found in BMW 3 Series (E36), 5 Series (E34/39), 7 Series; Opel/Vauxhall Omega; Land Rover, Range Rover. (Engine codes: 256T, M41, M51)

This tool set is designed for the locking of camshaft and crankshaft, as well as for the tensioning and locking of cam chain tensioners. The kit also includes a tool for the removal of injection pump sprockets.

Technical Data:

Weight:	3.0kg
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Scope of Delivery: KL-0580-101 Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-2	Puller for Injection Pump Sprocket, BMW/Opel/Vauxhall	1
KL-0580-6	Locking Tool (M41/M51, camshaft)	1
KL-0580-10	Locking Pin, Ø 11.8/8mm (flywheel)	1
KL-0580-15	Tensioner Tool, Timing Chain, BMW	1
KL-0580-1201	Retaining Pin, Ø 4mm (chain tensioner)	3
KL-0580-1090	Plastic Storage Case	1



KL-0580-2 Puller for Injection Pump Sprocket

Application: BMW 4-cylinder Diesel engines (M41), 6-cylinder Diesel engines 2.5 (M51), also Opel/Vauxhall Omega 2.5 TD.

For loosening the injection pump sprocket from the shaft when dismantling an injection pump.

KL-0580-7 KB Locking Tool Set, BMW

Applicable to BMW 2.0 4-cylinder Diesel engines (M47), 2.5 and 3.0 6-cylinder Diesel engines (M51, M57) as found in BMW 1 Series, 3 Series, 5 Series, 6 Series, 7 Series, X3, X5, X6.

(Engine codes: 204D4, 256D2, 306D2, 306D3, 306D4, 306D5, D30T2, YD30T2)

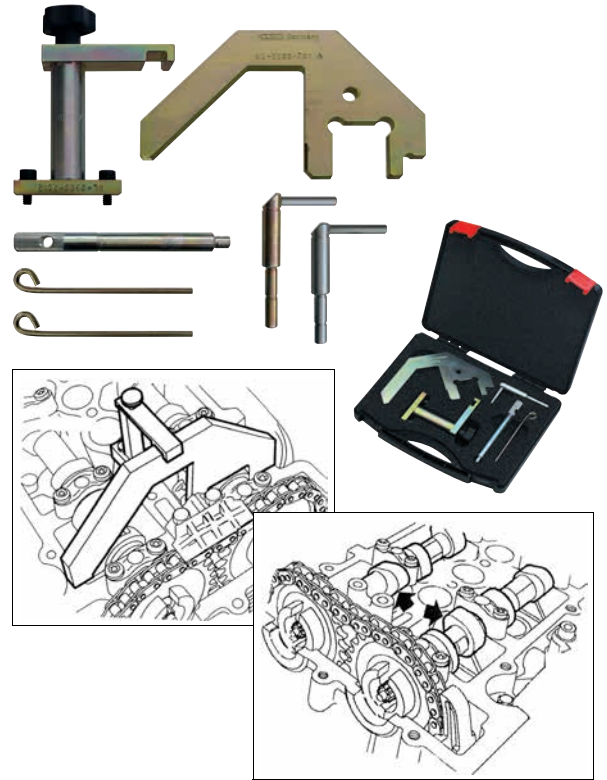
Designed for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as of the flywheel and timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Note: For turning the crankshaft, the KL-0580-823 A crankshaft tool (accessory) is needed.

Scope of Delivery:

KL-0580-7 KB Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-10	Locking Pin	1
KL-0580-1201	Retaining Pin	2
KL-0580-701 A	Locking Plate	1
KL-0580-702 A	Holder for Locking Plate	1
KL-0580-703 B	Locking Pin, Ø 8mm	1
KL-0580-704 B	Locking Pin, Ø 8.25/8mm	1
KL-0580-7090 A	Plastic Storage Case with Insert	1



KL-0580-21 Puller for Injection Pump Sprocket, BMW

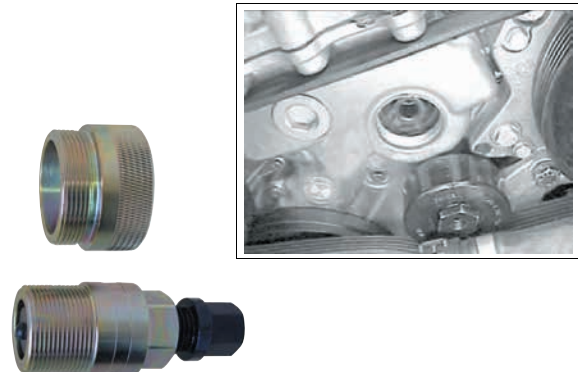
Applicable to BMW M47, M47R, M47TU, M51, M57, M57TU engines. (204D1, 204D3/TD4, 256D1, 306D1, 306D1/TD6, Y25DT)

Tool for fixing the injection pump sprocket and pushing out the injection pump shaft. Necessary when removing an injection pump.

Scope of Delivery:

KL-0580-21 Puller for Injection Pump Sprocket, BMW

Part No.	Description	Qty
KL-0580-2101	Housing	1
KL-0580-2102	Spindle, M18x1.5, with O-Ring	1
KL-0580-2103	Pressure Piece	1
KL-0580-2104	Threaded Sleeve	1



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KL-0580-22 Injection Pump Removal Tool

Applicable to BMW vehicles equipped with either an N47, N47S, N47T or N57 engine, e.g. E90.

Tool for fixing the injection pump sprocket when removing the injection pump.

Scope of Delivery:

KL-0580-22 Injection Pump Removal Tool

Part No.	Description	Qty
KL-0580-2201	Threaded Sleeve	1
KL-0580-2202	Drive (waf) 20/12mm	1



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



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





KL-0580-712 K Locking Tool for Flywheel

Applicable to BMW, Mini 1.4, 1.6, 1.8, 2.0, 2.5, 3.0 petrol and Diesel engines (M47T2, M47TU, M57T2, M57TU, M67, N45, N45T, N46, N46T, N51, N52, N53, N54, W17) as fitted to e.g. BMW 1 Series, 3 Series, 5 Series, 6 Series, 7 Series, X1, X3, X5, X6, Z4 and Mini One D.

(Engine codes: N43 B16A/AA, N43 B16AA, N43 B16AA/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)

The tool is needed to lock the flywheel while loosening/tightening the crankshaft central screw.

Scope of delivery:

KL-0580-712 K Locking Tool for Flywheel

Part No.	Description	Qty
KL-0580-712	Locking Tool for Flywheel	1
KL-4990-1003	Plastic Storage Case	1



KL-0580-8133 A Counter-Holding Tool for Crankshaft

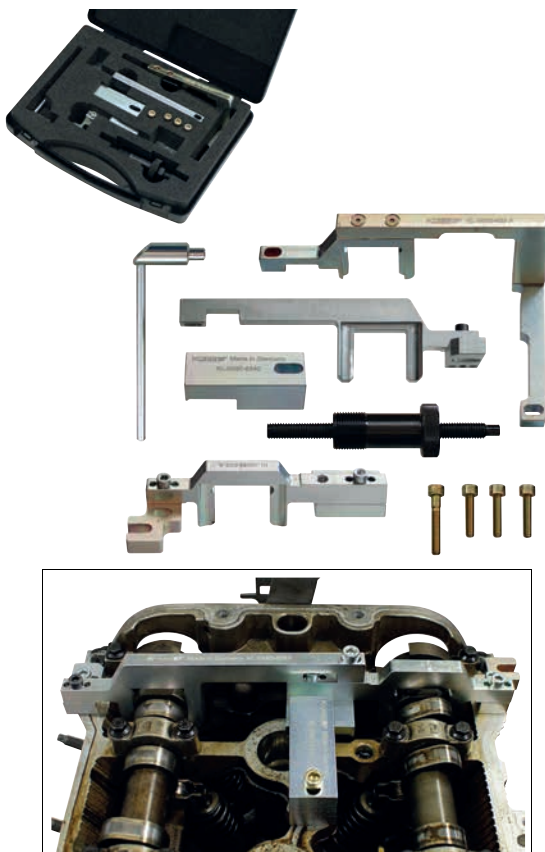
Applicable to BMW and Mini 1.4, 1.6, 1.8 and 2.0 petrol engines.

(Engine codes: N12, N14, N16, N18, N40, N42, N45, N45T, N46, N46T)

This tool is designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

For example, included in tool set **KL-0580-813 KB**.

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KL-0580-83 KA Locking Tool Set, BMW 1.4 and 1.6 16V

Applicable to Mini 1.4 and 1.6 litre engines (engine codes: N12, N14, N16) and PSA engines (engine codes: EP3, EP3C, EP6, EP6C, EP6CDT, EP6DT, EP6DTE, EP6DTS) as installed in Mini Cooper (R55, R56), Mini Cooper S (R55, R56), Mini One (R56), Citroën C4, C4 Picasso and Peugeot 207, 308.

Designed to be used for locking/positioning camshafts and crankshaft as well as for adjusting the VANOS adjustment units. Kit also includes a tool to pre-tension the timing chain tensioner.

An indispensable tool set when replacing a timing chain, removing and installing VANOS adjustment units or performing engine repairs.

Scope of Delivery:

KL-0580-83 KA Locking Tool Set, BMW 1.4 and 1.6 16V

Part No.	Description	Qty
KL-0580-831 A	Locking Pin for Flywheel	1
KL-0580-832 A	Locking Tool for Camshaft	1
KL-0580-833 A	Locking Tool for Camshaft	1
KL-0580-834 A	Locking Tool for Camshaft	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8390 A	Plastic Storage Case	1

KL-0580-44 KA Locking Tool Set, BMW N40 and N45

Applicable to BMW 1.6 (N40 / N45) TwinCam petrol engines.
Fitted to BMW 1 Series (E81/E87) and 3 Series (E46/E90).
(Engine codes: N40 B16A, N45 B16A, N45T B16AC)

Tool set for the locking/positioning of camshafts and crankshaft, as well as for pre-tensioning the timing chain tensioner. The kit also includes a tool to adjust the VANOS adjustment units. Indispensable kit when replacing a timing chain, removing and installing VANOS adjustment units or performing an engine repair.
For accessories, please see **KL-0580-813 KB**.

Scope of Delivery: KL-0580-44 KA Locking Tool Set, BMW N40 and N45

Part No.	Description	Qty
KL-0580-441 A	Locking Tool for Camshaft (inlet)	1
KL-0580-442 A	Locking Tool for Camshaft (exhaust)	1
KL-0580-443 A	Setting Gauge (Vanos)	1
KL-0580-8111 A	Retaining Pin for Flywheel	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8115-3 A	Knurled Screw	1
KL-0580-4490 A	Storage Case with Insert	1



KL-0580-813 KC Locking Tool Set, BMW

Application: 1.6, 1.8 and 2.0 TwinCam petrol engines. For example, fitted to BMW 1 Series (E81, E82, E87, E88), 3 Series (E46, E90, E91, E92, E93), 5 Series (E60, E61), X1 (E84), X3 (E83), Z4 (E85, E86). (Engine codes: N40 B16A, N42 B18A, N42 B20A, N45 B16A, N45T B16AC, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2)

Very useful tool set for locking/positioning balance shafts, locking the timing chain tensioner, as well as for holding the crankshaft in position while loosening/tightening the crankshaft central screw.

For accessories, please see **KL-0580-44 KA, KL-0580-810 KA**.

Scope of Delivery: KL-0580-813 KC Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-8131 A	Alignment/Locking Tool for Balance Shaft	1
KL-0580-8132 A	Setting Gauge for Balance Shaft	1
KL-0580-8133 A	Counter-Holding Tool for Crankshaft	1
KL-0580-8134 A	Support for Counter-Holding Tool	1
KL-0580-1201	Retaining Pin, Ø 4mm	1
KL-0580-8111 A	Locking Pin for Flywheel	1
KL-0580-7513	Alignment/Locking Tool for Balance Shaft	1
KL-0580-8139 A	Plastic Storage Case	1



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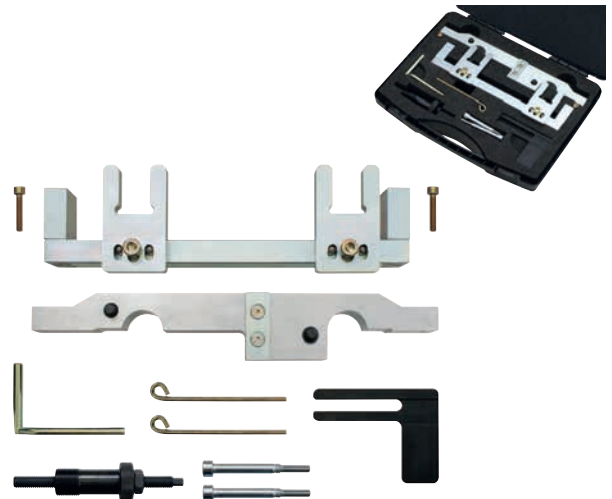
KL-0580-751 K Locking Tool Set, BMW

Applicable to 1.6 and 2.0 BMW engines; as found in BMW 1 Series, 3 Series, 5 Series.
(Engine codes: N43-B16A, N43-B16AA, N43-B16O0, N43-B20A, N43-B20AA, N43-B20AY, N43-B20K0, N43-B20U0)

These tools are used for the locking/positioning of engine shafts such as camshafts, crankshaft, balance shaft and camshaft sensor wheels, as well as for pre-tensioning the timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0580-751 K Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-7513	Alignment/Locking Tool for Balance Shaft	1
KL-0580-7512	Locking Tool for Camshaft Sensor	1
KL-0580-7511	Locking Tool for Camshaft	1
KL-0580-1201	Retaining Pin	2
KL-0580-8111 A	Locking Pin for Flywheel	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-7519	Plastic Storage Case	1





KL-0580-752 K Locking Tool Set, Mini

Applicable to Mini 1.6 petrol engines as found in Mini One, Cooper and Cooper S. (Engine codes: W10B16AA, W10B16BA, W11B16AA)

Designed for the locking/positioning of camshafts. Kit also contains tools to pre-tension the timing chain tensioner and to support the engine. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0580-752 K Locking Tool Set, Mini

Part No.	Description	Qty
KL-0580-7521	Pre-Tensioning Tool for Timing Chain	1
KL-0580-7522	Locking Tool for Camshaft	1
KL-0580-7523	Retaining Tool	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



KL-0580-754 K Belt Tool Set, Mini

Suitable for use on Mini One and Cooper S 1.6 petrol engines. (Engine codes: W10, W11)

Designed for the tensioning, releasing and locking of V-ribbed belt tensioners.

Scope of Delivery:

KL-0580-754 K Belt Tool Set, Mini

Part No.	Description	Qty
KL-0580-7541	Adjustment Tool for V-ribbed Belt Tensioners	1
KL-0580-7542	Adjustment Tool for V-ribbed Belt Tensioners	1
KL-0580-7543	Retaining Pin, Ø 4mm	1
KL-0580-7544	Retaining Pin, Ø 4.5mm	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1

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KL-0580-810 KA Locking Tool Set

Applicable to BMW 1.8 and 2.0 TwinCam (DOHC) petrol engines as fitted to: BMW 1 Series (E87), 3 Series (E46/E90/E91), 5 Series (E60 / E61), X1 (E84), X3 (E83) and Z4 (E85).

(Engine codes: N42 B18A, N42 B20A, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2)

This tool set is used for the locking/positioning of engine shafts such as camshafts and crankshaft as well as for the alignment of the VANOS Adjustment Unit.

It is required when replacing a timing chain, for the removal and replacement of camshafts and VANOS Adjustment Units, and for engine repairs.

Scope of Delivery:

KL-0580-810 KA Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-8111 A	Retaining Pin for Flywheel	1
KL-0580-8112 A	Camshaft Rotation Tool	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8114 A	Setting Gauge (Vanos)	1
KL-0580-8115 A	Locking Tool for Camshaft	1
KL-0580-8121 A	Torsion Spring Removal/Installation Tool	1
KL-0580-8122 A	Locking Tool for Camshaft	1
KL-0580-8123 A	Locking Tool for Camshaft	1
KL-0580-8124 A	Clips (8 units)	1
KL-0580-8125 A	Holding Tool for Bearing Bracket	1
KL-0580-8190	Plastic Storage Case	1

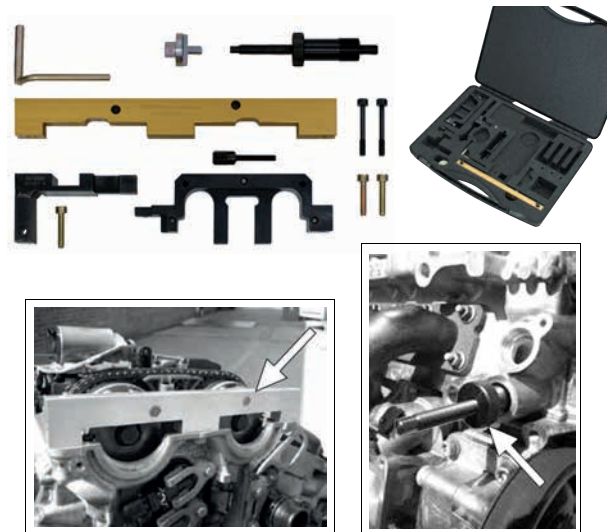
KL-0580-811 KA Locking Tool Set, BMW

Applicable to BMW 1.8 and 2.0 TwinCam (DOHC) petrol engines, e.g. as found in: BMW 1 Series (E87), 3 Series (E46/E90/E91), 5 Series (E60/E61), X1 (E84), X3 (E83) and Z4 (E85). (Engine codes: N42 B18A, N42 B20A, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2)

This tool set is used for checking/setting the camshaft timing, as well as for the removal, installation, and alignment of VANOS Adjustment Units.

Scope of Delivery: KL-0580-811 KA Locking Tool Set ,BMW

Part No.	Description	Qty
KL-0580-8111 A	Retaining Pin for Flywheel	1
KL-0580-8112 A	Camshaft Rotation Tool	1
KL-0580-8113 A	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8114 A	Setting Gauge (VANOS)	1
KL-0580-8115 A	Locking Tool for Camshaft	1
KL-0580-8190	Storage Case with Insert	1



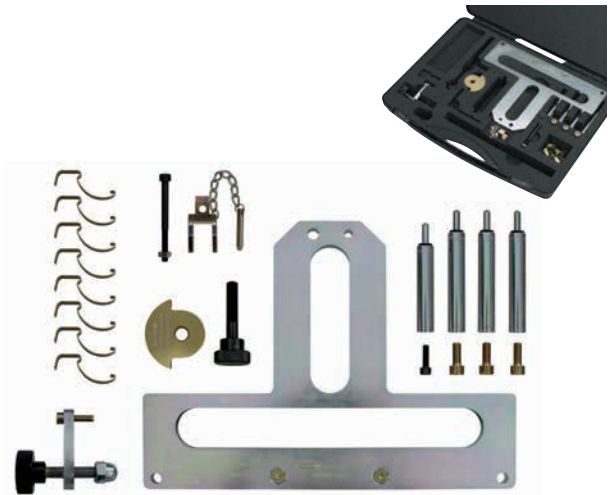
KL-0580-812 KA Locking Tool Set, BMW

Applicable to BMW 1.8 and 2.0 TwinCam (DOHC) petrol engines as found in: BMW 1 Series (E87), 3 Series (E46/E90/E91), 5 Series (E60/E61), X1 (E84), X3 (E83) and Z4 (E85). (Engine codes: N42 B18A, N42 B20A, N46 B18, N46 B20, N46 B20B, N46T B20, N46T B20B, N46T B20BD, N46T B20BZ, N46T B20O2)

This tool set is designed to be used in conjunction with the KL-0580-811 KA for the removal and installation of camshafts.

Scope of Delivery: KL-0580-812 KA Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-8121 A	Torsion Spring Removal/Installation Tool	1
KL-0580-8122 A	Locking Tool for Camshaft	1
KL-0580-8123 A	Locking Tool for Camshaft	1
KL-0580-8124 A	Clips (8 units)	1
KL-0580-8125 A	Holding Tool for Bearing Bracket	1
KL-0580-8190	Storage Case with Insert	1



KL-0580-43 KA Locking Tool Set, BMW

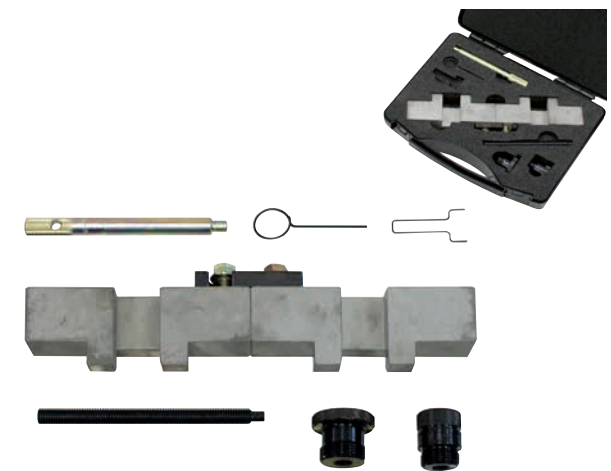
Applicable to BMW 4- and 6-cylinder TwinCam (DOHC) engines M42, M44, M50, M52, M52TU, M54 and M56 with VANOS System.

This tool set is designed to be used for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as for pre-tensioning the timing chain when adjusting the camshaft timing. It is required, for example, when replacing a timing chain, removing/installing a VANOS System, or during an engine repair.

For accessories, please see KL-0580-41 KA, KL-0580-42 KA.

Scope of Delivery: KL-0580-43 KA Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-431 A	Pre-Tensioning Tool for Timing Chain, BMW	1
KL-0580-432 A	Retaining Pins for Chain Tensioner	1
KL-0580-4	Locking Tool, BMW M42 and M50	1
KL-0580-10	Locking Pin, Ø 11.8/8mm	1
KL-0580-4390	Plastic Storage Case	1

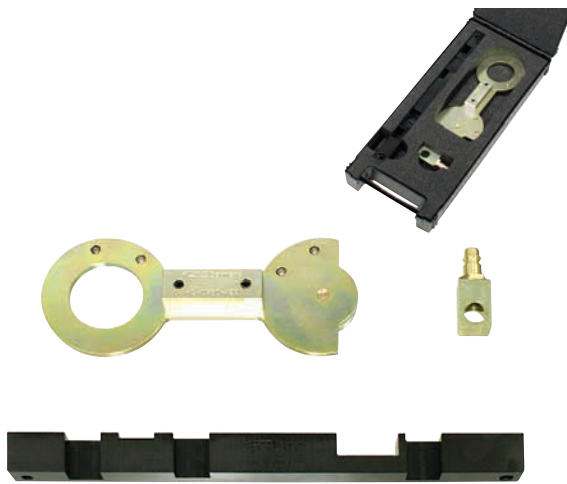


KL-0580-41 A Adjusting Wrench, BMW

Applicable to BMW 4- and 6-cylinder TwinCam (DOHC) engines M42, M44, M50 and M52 with VANOS system.

Required when removing and installing VANOS units with diaphragm spring.





KL-0580-42 KA

Tool Set for BMW Double-VANOS

Applicable to BMW TwinCam (DOHC) petrol engines M52TU, M54 und M56 (206S4, 226S1, 256S4, 256S5, 286S2, 306S3) as found in 3 Series (E46, Z3); 5 Series (E39, E60, E61); 7 Series (E38, E65, E66); X3 (E83); X5 (E53); Z4 (E85).

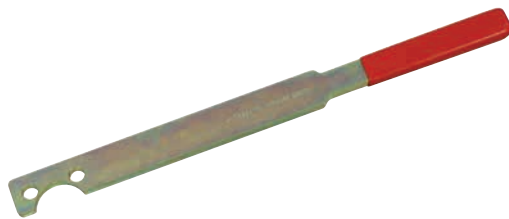
This tool set allows for the trouble-free and professional removal and installation of Double-VANOS Adjustment Units.

For accessories, please see **KL-0580-43 KA**.

Scope of Delivery:

KL-0580-42 KA Tool Set for BMW Double-VANOS

Part No.	Description	Qty
KL-0580-421	Compressed Air Adaptor	1
KL-0580-422	Setting Gauge (VANOS)	1
KL-0580-423	Mounting Plate	1
KL-0580-4290 A	Plastic Storage Case	1



KL-0582-1

Holding Tool for Viscous Fan, BMW

Suitable for use on BMW engines, e.g. M20 and M30.

Designed to counter-hold the fan shaft when removing the viscous fan.

Technical Data:

Hole pitch:	38mm
Weight:	500g



KL-0582-2

Holding Tool for Viscous Fan, BMW

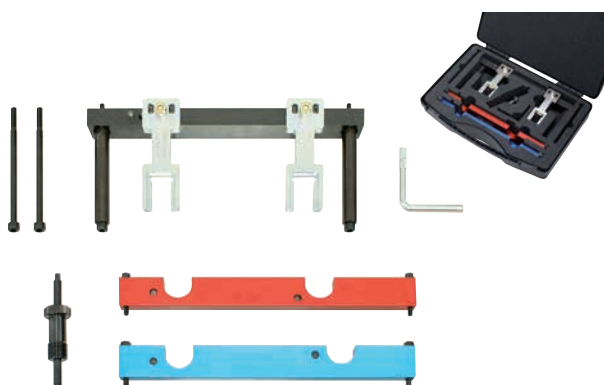
Suitable for use on BMW engines, e.g. M10, M20, M21, M30, M50, M51, M52, M52TU, M54, M56, M70, M73, S14 and S38.

Designed to counter-hold the fan shaft when removing the viscous fan.

Technical Data:

Hole pitch:	44.5mm
Weight:	400g

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KL-0580-45 KA

Locking Tool Set,

BMW N51, N52, N52K, N53, N54 and N55

Suitable for use on BMW 2.5, 3.0 and 3.5 litre petrol engines with Valvetronic (Engine codes: N51, N52, N52K, N55) or with direct injection (Engine codes: N53, N54) as found in 1 Series (E81 / E82 / E87); 3 Series (E90 / E91 / E92 / E93); 5 Series (E60 / E61); 6 Series (E63 / E64); 7 Series (E65 / E66); X3 (E83); X5 (E70); Z4 (E85 / E86).

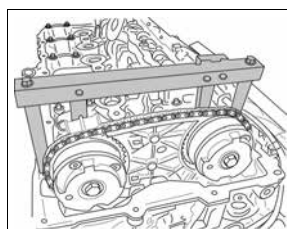
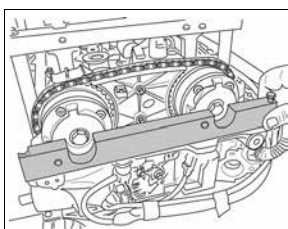
This tool set is designed to be used for the locking/positioning of camshafts and crankshaft, as well as for pre-tensioning the timing chain tensioner. It also includes a tool for adjusting the VANOS adjustment units.

An indispensable tool set when replacing a timing chain, removing/installing VANOS adjustment units and during engine repairs.

Scope of Delivery:

KL-0580-45 K Locking Tool Set, BMW N51, N52, N52K, N53, N54 and N55

Part No.	Description	Qty
KL-0580-451 A	Locking Pin for Flywheel	1
KL-0580-452 A	Locking Tool for Camshafts	1
KL-0580-453 A	Setting Gauge (Vanos), blue	1
KL-0580-454 A	Setting Gauge (Vanos), red	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-4590 A	Plastic Storage Case with Insert	1



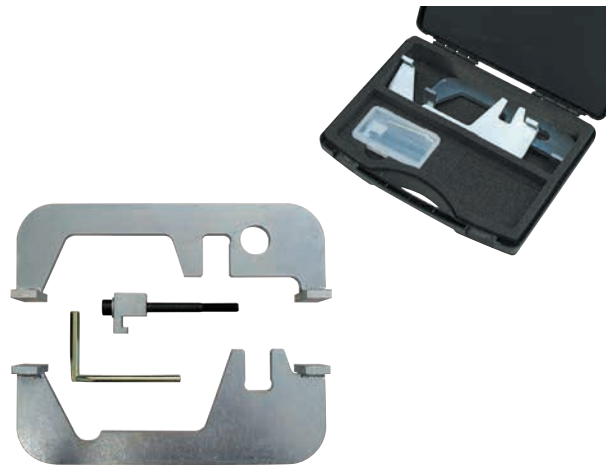
KL-0580-753 K Locking Tool Set, BMW

Applicable to BMW 3.6, 4.0, 4.4, 4.8 and 6.0 litre engines as found in BMW 5 Series, 6 Series, 7 Series, X5. (Engine codes: N62-B36A, N62-B40A, N62-B44A, N62-B48A, N62-B48B, N73-B60A)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as for locking the flywheel. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0580-753 K Locking Tool Set, BMW

Part No.	Description	Qty
KL-0580-8111 A	Retaining Pin for Flywheel	1
KL-0580-7531	Locking Tool for Inlet Camshaft	1
KL-0580-7532	Locking Tool for Exhaust Camshaft	1
KL-0580-7533	Cam Tool Holder	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



KL-0123-1 A Reaction Wrench, Size (waf) 32mm

Designed to counter-hold the viscous clutch drive shaft when removing/installing the viscous clutch on BMW and Ford vehicles.



Technical Data:

Size (waf):	32mm
Length:	280mm
Height:	11mm
Weight:	340g

KL-0380-701 K Locking Tool Set, Mercedes OM651

Applicable to Mercedes-Benz vehicles with a 2.1 litre as well as Jeep vehicles with a 2.2 litre Common Rail Diesel engine. Engines fitted, for example, to: Mercedes-Benz C-Class (W204), E-Class (W207, W212), GLK (X204), CLS (W218) and Sprinter (W906); as well as Jeep Compass (MK) etc.

(Engine codes: OM 651.911, 651.912, 651.913, 651.916, 651.924, 651.925, 651.955, 651.956, 651.957, 651.961 and 651)

For locking camshafts and balance shafts, as well as for positioning/turning the crankshaft. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0380-701 K Locking Tool Set, Mercedes OM651

Part No.	Description	Qty
KL-0380-7011	Locking Tool, Balance Shaft	1
KL-0380-7012	Locking Tool Set, Camshaft	1
KL-0380-7013	Turning Tool, Crankshaft	1
KL-4990-1107	Plastic Storage Case	1



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KL-0380-7010 K Locking Tool Set, Mercedes OM651

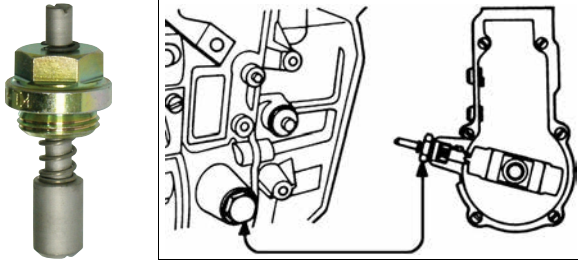
Applicable for Mercedes vehicles with a 2.1 litre, as well as Jeep vehicles with a 2.2 litre Common Rail Diesel engine. Engines fitted to, e.g.: Mercedes C-Class (W204), E-Class (W207, W212), GLK (X204), CLS (W218) and Sprinter (W906), as well as to Jeep Compass (MK) etc. (Engine codes: OM 651.911, 651.912, 651.913, 651.916, 651.924, 651.925, 651.955, 651.956, 651.957, 651.961 and 651)

For locking the camshafts as well as for positioning/turning the crankshaft. An indispensable tool kit when changing a timing chain or performing an engine repair.

Scope of Delivery: KL-0380-7010 K Locking Tool Set, Mercedes OM651

Part No.	Description	Qty
KL-0380-7012	Locking Tool Set, Camshaft	1
KL-0380-7013	Turning Tool, Crankshaft	1
KL-4990-1107	Plastic Storage Case	1





KL-0343-3 Locking Screw

Suitable for use on Mercedes engines OM601, OM602 and OM603.

The injection pump locking screw allows the injection pump (VE pump) to be removed without loss of pump timing.

KL-0343-5 Locking Screw



Suitable for use on Mercedes engines OM602, OM604, OM605 and OM606 with Lucas Injection Pump.

The injection pump locking screw allows the injection pump to be removed without the loss of pump timing.

Technical Data:

Weight:	27g
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KL-0363-50 K Locking Tool Set, Mercedes

Applicable to Mercedes petrol engines M102, M103, M104, M111, M112, M113, M137, M155, M156, M272, M273, as well as Diesel engines OM601, OM602, OM603, OM605, OM606, OM611, OM612, OM613, OM629, OM642.

Designed for the locking/positioning of camshafts and for locking the flywheel. An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0363-50 K Locking Tool Set, Mercedes

Part No.	Description	Qty
KL-0363-501	Locking Device for Flywheel	1
KL-0363-502	Locking Device for Flywheel	1
KL-0384-10	Locking Tool	2
KL-0363-5090	Plastic Storage Case	1

KL-0384-10 Locking Tool, Mercedes



Applicable to Mercedes-Benz A-, B-, C-, CLC-, CLK-, CLS-, E-, G-, GL-, M-, R-, S-, SLK-, V-Class, Sprinter, Vito and Viano vehicles equipped with either a petrol engine (Engine codes: M104, M111, M112, M119, M120, M272, M273) or a Diesel engine with 4-valve-technology.

(Engine codes: OM605, OM606, OM611, OM612, OM613, OM614, OM628, OM629, OM640, OM642, OM643, OM646, OM646 EVO, OM647, OM648, OM649)

Designed to lock the camshafts when removing the cylinder head.

Technical Data:

Ø:	5.8/6.0mm
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KL-0312

Puller for Chain Slider Bolts, Mercedes/BMW

Applicable to chain slider bolts on Mercedes and BMW; the kit includes puller bolts and adaptor disc.

Scope of Delivery:

KL-0312 Puller for Chain Slider Bolts, Mercedes/BMW

Part No.	Description	Qty
KL-0312-100	Puller (base tool with spindle)	1
KL-0312-0010	Puller Bolt, M6x30mm	1
KL-0312-0011	Puller Bolt, M8x30mm	1
KL-0312-0012	Puller Bolt, M8x60mm	1
KL-0312-0013	Adaptor Disc	1



KL-0312-2

Puller for Chain Slider Bolts, Mercedes/BMW

Applicable to chain slider bolts on Mercedes and BMW; the kit includes puller bolts and adaptor disc.

This short version is required for repairs where the radiator has not to be removed from the vehicle.

Scope of Delivery:

KL-0312-2 Puller for Chain Slider Bolts, Mercedes/BMW

Part No.	Description	Qty
KL-0312-200	Puller (base tool)	1
KL-0312-0010	Puller Bolt, M6x30mm	1
KL-0312-0011	Puller Bolt, M8x30mm	1
KL-0312-0012	Puller Bolt, M8x60mm	1
KL-0312-0013	Adaptor Disc	1



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KL-0380-7101

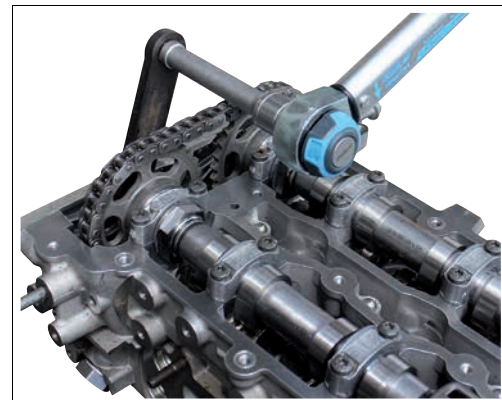
External Hexalobular Socket, E14-1/2"

Suitable for use on Mercedes vehicles with a 2.1 litre, as well as Jeep vehicles with a 2.2 litre (OM651) Common Rail Diesel engine.

Engines fitted to: Mercedes C-Class (W204), E-Class (W212), GLK (X204), CLS (W218) and Sprinter (W906), as well as Jeep Compass (MK) etc.

(Engine codes: OM651, 651.911, 651.912, 651.913, 651.916, 651.924, 651.925, 651.955, 651.956, 651.957, 651.961)

For the professional loosening/tightening of fastening screws (with Torx E14 profile) found at camshaft sprockets. The tool is used in conjunction with a 1/2" reversible ratchet or a 1/2" torque wrench. The external hexalobular socket is provided with an engraved torque conversion formula allowing the user to easily recalculate the necessary torque (due to the extended leverage) when tightening the fastening screw. Indispensable when changing a timing chain or performing engine repairs.





KL-0340-22 K

Timing Chain Master Tool Kit, Mercedes

Applicable to: Mercedes M102, M112, M113, M271, M272, OM628, OM642, OM651, OM668 and Opel/Vauxhall petrol and Diesel engines with Simplex or Duplex timing chain.

As installed in: Mercedes A-Class (W168), B-Class (W246), C-Class (W202, W203, W204), E-Class (W207, W210, W211, W212), G-Class (W460, W461, W463), R-Class (W251), S-Class (W220, W221), CLS (W218, W219), CLK (W208, W209), SL (W129, W230), SLK (W170, W171, W172), ML (W163, W164, W166), GL (X164), GLK (X204), Sprinter (W906), Vaneo (W414), Viano (W639), Vito (W639), 190 (W201), 200-300 (W123), 200-500 / E (W124).

This timing chain tool kit allows for the quick and neat separation, pulling in and riveting of Simplex timing chains as well as of Duplex timing chains with the centre plate pressed-on as found in Mercedes engines.

Scope of Delivery:

KL-0340-22 K Timing Chain Master Tool Kit, Mercedes

Part No.	Description	Qty
KL-0340-20 A	Breaker Tool for Timing Chain	1
KL-0340-203	Clipping Punch, Ø 4mm (2 pieces)	1
KL-0340-205	Clipping Punch, Ø 3mm (2 pieces)	1
KL-0340-211	Riveting Tool (base tool)	1
KL-0340-2201	Multi Thrust Piece 1	1
KL-0340-2202	Multi Thrust Piece 2	1
KL-0340-2203	Centring Pin, M5	2
KL-0340-221	Assembly Insert Kit A	1
KL-0340-222	Assembly Insert Kit B	1
KL-0340-223	Assembly Insert Kit C	1
KL-0340-224	Assembly Insert Kit D	1
KL-0340-225	Assembly Insert Kit E	1
KL-0340-226	Assembly Insert Kit F	1
KL-0340-2090	Plastic Storage Case	1

Advantages:

- Ensures neat separation of the old timing chain.
- Ensures safe and correct assembly of the new chain joint.
- Ensures correct riveting of the new timing chain.

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KL-0340-23 K

Timing Chain Base Tool Kit, Mercedes

Applicable to: Mercedes M271, OM651 and Opel/Vauxhall petrol and Diesel engines with Simplex timing chain.

As installed in: Mercedes B-Class (W246), C-Class (W203, W204), E-Class (W211, W212, W207), M-Class (W166), S-Class (W221), CLS (C218), CLK (W209), SLK (W171, W172), GLK (X204), Sprinter (W906), Viano (W639) and VITO (W639).

This timing chain tool kit allows for the quick and neat separation, pulling in and riveting of the Simplex timing chains that are found in Mercedes engines.

Advantages:

- Ensures neat separation of the old timing chain.
- Ensures safe and correct assembly of the new chain joint.
- Ensures correct riveting of the new timing chain.

Scope of Delivery:

KL-0340-23 K Timing Chain Tool Kit, Mercedes

Part No.	Description	Qty
KL-0340-20 A	Breaker Tool for Timing Chain	1
KL-0340-203	Clipping Punch, Ø 4mm (2 pieces)	1
KL-0340-205	Clipping Punch, Ø 3mm (2 pieces)	1
KL-0340-211	Riveting Tool (base tool)	1
KL-0340-2201	Multi Thrust Piece 1	1
KL-0340-2202	Multi Thrust Piece 2	1
KL-0340-2203	Centring Pin, M5	2
KL-0340-222	Assembly Insert Kit B	1
KL-0340-226	Assembly Insert Kit F	1
KL-0340-2090	Plastic Storage Case	1

KL-0340-224

Assembly Insert Kit D

For example, included in tool set **KL-0340-22 K**.



KL-0340-9

Universal Mounting Device for Timing Chain

Suitable for use on Mercedes and Opel/Vauxhall petrol and Diesel engines both with Simplex and Duplex timing chains.

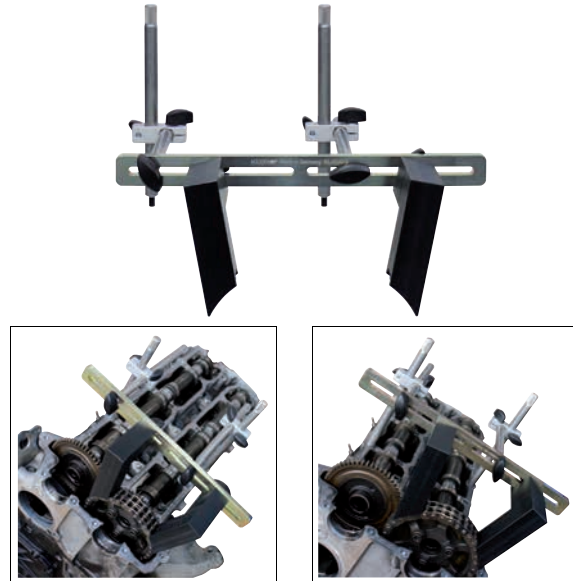
The special design of the mounting device prevents skipping a tooth during assembly, thus allowing the mechanic to carry out the professional installation of the new timing chain single-handedly - quickly and without any trouble.

Advantages:

- Substantial time savings, only one mechanic will be needed to do the job.
- Risk of dropping the chain or skipping a tooth is eliminated.
- Even more time savings possible, as on some vehicles removing the radiator, fan clutch etc. is not necessary.

Scope of Delivery: KL-0340-9 Universal Mounting Device for Timing Chain

Part No.	Description	Qty
KL-0340-91	Supporting Rod	2
KL-0340-92	Base Tool	1



KL-0380-752 K

Locking Tool Set, Mercedes

Applicable to Mercedes-Benz 1.6 and 1.8 petrol engines as found in: C-, CLC-, CLK-, E-, SLK-Class and Sprinter vehicles. (Engine code: M271)

For locking/positioning the camshafts and timing chain tensioning rail. Can also be used to install the plug on the timing case cover of the chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0380-752 K Locking Tool Set, Mercedes

Part No.	Description	Qty
KL-0380-7521	Locking Tool for Camshaft	1
KL-0380-7522	Wedge for Tensioning Rail	1
KL-0380-7523	Installation Mandrel for Chain Tensioner	1
KL-4990-1107	Plastic Storage Case	1



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KL-0380-751 K

Locking Tool Set, Mercedes

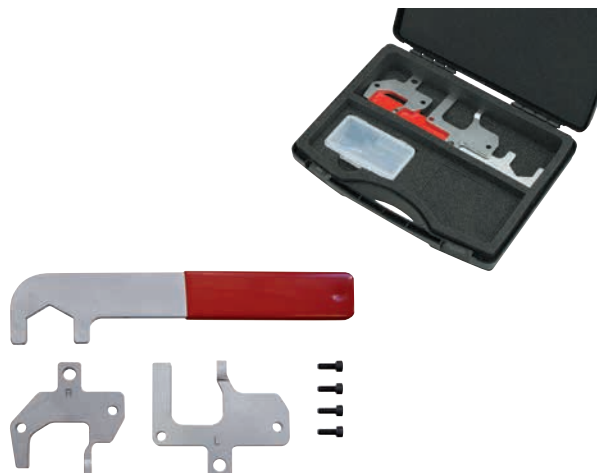
Applicable to Mercedes-Benz 2.4, 2.6, 2.8, 3.2, 3.7, 4.3, 5.0 and 5.4 litre petrol engines as found in:

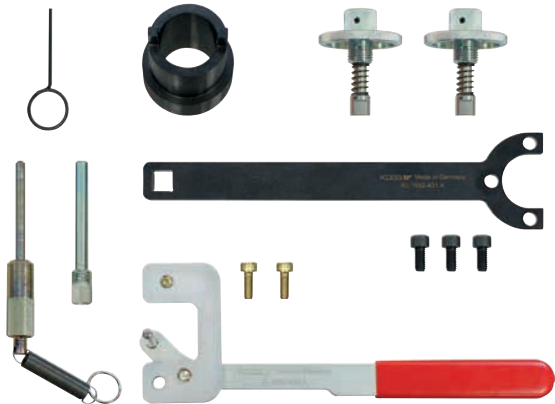
C-, CL-, CLK-, CLS-, E-, G-, M-, R-, S-, SL-, SLK-Class, Viano, Vito. (Engine codes: M112, M113)

For locking and/or positioning camshafts. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-0380-751 K Locking Tool Set, Mercedes

Part No.	Description	Qty
KL-0380-7511	Camshaft Spanner	1
KL-0380-7512	Locking Tool for Camshaft	1
KL-0380-7513	Locking Tool for Camshaft	1
KL-1280-2401-6	Cheese Head Screw, M6x14mm	4
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1





KL-1682-43 KA Locking Tool Set, 1.3 JTD

Applicable to Fiat 1.3 16V Common Rail Diesel engines as fitted to:

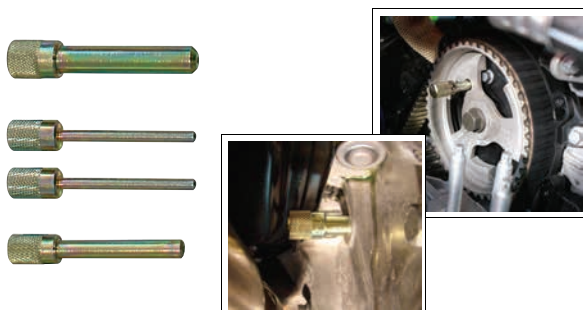
- Alfa Romeo, Fiat, Lancia JTD Multi-Jet (engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000, 843A2.000)
- Ford TDCi Duratorq (engine code: FD4)
- Opel/Vauxhall CDTi (engine codes: A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Y13DT, Y13DTH, Z13DT, Z13DTE, Z13DTH, Z13DTI, Z13DTJ, Z13DTR)
- Suzuki DDiS (engine codes: D13A, Z13DT, Z13DTJ)
- Subaru (engine code: Z13DT)
- Citroën, Peugeot (engine code: F13DTE5 (FHZ))

This tool set is designed to counter-hold the crankshaft while loosening or tightening the crankshaft central screw. It also includes tools to lock/position engine shafts such as camshaft and crankshaft when replacing a timing chain or during an engine repair.

Scope of Delivery: KL-1682-43 KA Locking Tool Set, 1.3 JTD

Part No.	Description	Qty
KL-0482-450 A	Locking Tool for Camshaft (2 pieces)	1
KL-1682-434 A	Locking Pin, Ø 8mm	1
KL-0482-451 A	Locking Pin for Crankshaft, Ø 6mm	1
KL-1682-435	Counter-Holding Tool Set, Crank/Cam	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-1682-432 A	Holding Tool for Timing Chain Tensioner	1
KL-1682-4390 A	Plastic Storage Case	1

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KL-0680-220 B Set of Locking Pins, Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDiS; Toyota 1.0 VVT, 1.4 Di, 1.4 HDi; Volvo 1.6 D Diesel engines.

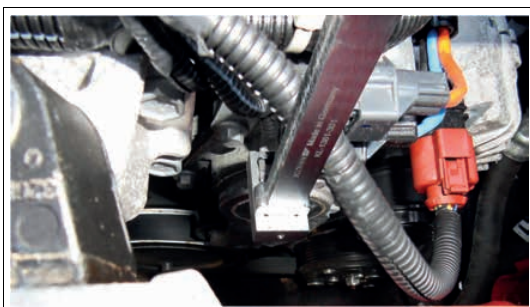
(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTEd, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery: KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1

KL-1381-30 Tensioner Tool with Retaining Pin



Applicable to PSA (Citroën, Peugeot), Fiat and Ford 1.4 und 1.6 litre Diesel engines as found in: Citroën Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4 II, C4 Picasso/Grand Picasso, C5 III, DS3, Berlingo III, DS4, DS3, DS4, Xsara II, Xsara Picasso and Peugeot Partner III, 206, 207, 207 CC, 308, 308 CC, 508, 3008, 5008. (Engine codes: DV4, DV6)

Facilitates the tensioning and locking of V-ribbed belt tensioners.

This tool allows for the removal/installation of the V-ribbed belt in situ on the vehicle even in very limited space conditions.

Technical Data:

Length of tension lever:	465mm
Ø of retaining pin:	4.2mm

Scope of Delivery: KL-1381-30 Tensioner Tool with Retaining Pin

Part No.	Description	Qty
KL-1381-3021	Retaining Pin (angled), Ø 4.2mm	1
KL-1383-301	Tension Lever with Base Body	1

KL-0680-262 A

Tensioner Tool, Ford

Applicable to Ford 1.4, 1.6, 2.0, 2.2 TDDi / TDCi Duratorq Diesel engines as installed in Ford Mondeo (2000-2007), Focus; Mazda2, Mazda3.

(Engine codes: F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

The tensioner tool KL-0680-262 A is required to pretension the tensioner when removing/installing the auxiliary belt.



KL-0280-701 K

Locking Tool Set, VW 1.2, 1.4, 1.6, 1.9 TDI

Applicable to VW-Audi, Seat, Škoda and Ford vehicles equipped with either a 1.2, 1.4, 1.6 or 1.9 Common Rail or Pumpe-Düse (unit injector) Diesel engine such as VW Lupo, Polo, Fox, Golf, Passat; Audi A1, A2, A3; Seat Arosa, Ibiza, Cordoba; Škoda Fabia II, Roomster, Praktik; Ford Galaxy etc.

(Engine codes: AMF, ANU, ANY, ASZ, ASZ1, ATL, AUY, AYZ, BAY, BHC, BMS, BNM, BNV, BWB, CAYA, CAYB, CAYC, CAYD, CAYE, CFWA)

Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft. The kit also includes tools to lock/position and adjust the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.



Scope of Delivery:

KL-0280-701 K Locking Tool Set, VW 1.2, 1.4, 1.6, 1.9 TDI

Part No.	Description	Qty
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0280-16	Holding Tool	1
KL-0280-19	Locking Tool	1
KL-0280-2201 A	Locking Pin (angled), Ø 2.5mm	1
KL-0280-2202 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0280-222	Locking Pin (angled), Ø 4mm	1
KL-0280-2501	Locking Pin, Ø 4.4mm	1
KL-0280-6101	Locking Pin, Ø 4mm	1
KL-0280-6102	Locking Pin, Ø 7mm	1
KL-0284-91 A	Adjustment Tool for Timing Belt Tensioner, 240mm	1
KL-1480-16	Locking Pin (long), Ø 6mm	2
KL-4031-3610	Screw Driver Bit Socket, XZN-M10	1
KL-4031-3114	Screw Driver Bit Socket, XZN-M14, 100mm	1
KL-0280-7029	Plastic Storage Case	1



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KL-0680-21 KA

Locking Tool Set, Ford TDCi

Applicable to Ford 2.0, 2.2, 2.4, 3.2 litre 16V TDDi/TDCi/Di Diesel engines as found in Mondeo, Transit (2001-2004) etc.

(Engine codes: 244DT, ABFA, BG, D2FA, D2FB, D3FA, D4FA, D5BA, D6BA, DOFA, F3FA, F4FA, F1FA, FMBA/B, FXFA, H9FA, H9FB, HEFA, HJBA, HJBB, HJBC, HJBE, JXFA, N7BA, N7BB, P8FA, PHFA, QJBA, QJBB, QJBC, QJBD, QVFA, QWFA, SAFA)

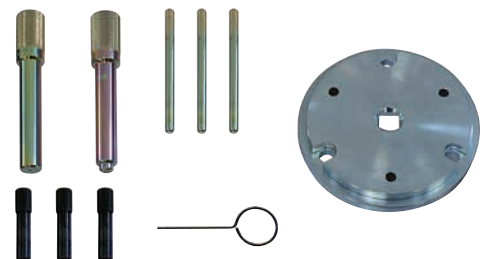
Indispensable tool set for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing chain or during an engine repair. The kit also includes a tool to remove/install the injection pump.

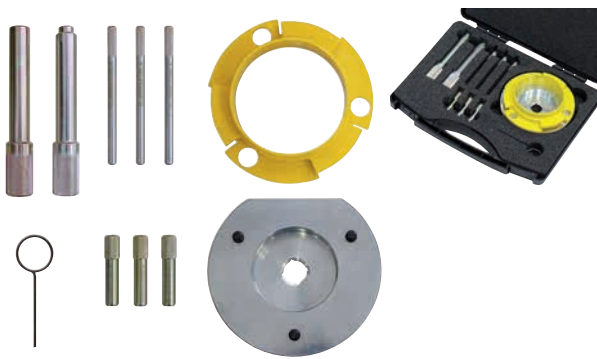


Scope of Delivery:

KL-0680-21 KA Locking Tool Set, Ford TDCi

Part No.	Description	Qty
KL-0680-2100 A	Injection Pump Removal/Installation Tool	1
KL-0680-210 A	Locking Pin Set, Ford 2.0/2.4 TDCi	1
KL-0680-2190 A	Plastic Storage Case	1





KL-0680-21 KB

Locking Tool Set, Ford 2.0/2.4 TDCi

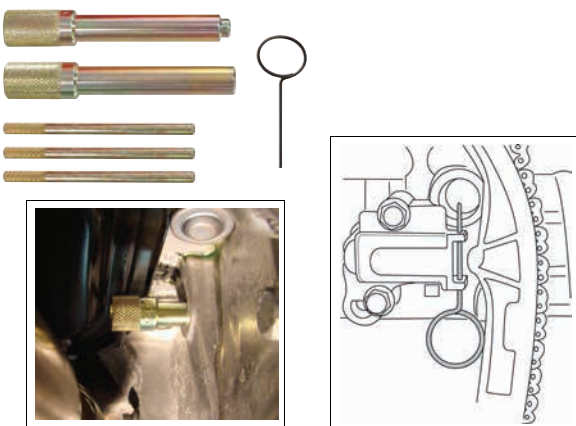
Applicable to Ford, Land Rover and Jaguar 2.0, 2.2, 2.4 and 3.2 TDdi/TDCi/Di Diesel engines. For example, fitted to: Ford Focus, Mondeo, Transit; Land Rover Defender and Jaguar X-Type.

For the locking/positioning of camshafts, injection pump shaft and crankshaft. An indispensable tool set when changing timing chains, performing engine repairs, as well as when removing/installing injection pumps.

Scope of Delivery: KL-0680-21 KB Locking Tool Set, Ford 2.0/2.4 TDCi

Part No.	Description	Qty
KL-0680-2101 A	Locking Pin, Ø 14mm	1
KL-0680-2102 A	Locking Pin, Ø 14 / 10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	3
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-0680-2100 B	Injection Pump Removal/Installation Tool	1
KL-0680-2190 A	Plastic Storage Case	1

(Engine codes: 244DT, ABFA, BG, D2FA, D2FB, D3FA, D4FA, D5BA, D6BA, DOFA, F3FA, F4FA, F5FA, FMBA/B, FXFA, H9FA, H9FB, HEFA, HFFA, HJBA, HJBB, HJBC, HJBE, JXFA, N7BA, N7BB, P8FA, PHFA, QJBA, QJBB, QJBC, QJBD, QVFA, QWFA, SAFA)



KL-0680-210 A

Locking Pin Set, Ford 2.0/2.4 TDCi

Applicable to Ford 2.0/2.4 16V TDdi/TDCi engines as installed in Mondeo, Transit (2001-2004) etc.

(Engine codes: FMBA/B, D5BA, ABFA, D3FA, F3FA, D2FA, D4FA, F4FA)

This set is used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing timing chains or during engine repairs.

Scope of Delivery: KL-0680-210 A Locking Pin Set, Ford 2.0/2.4 TDCi

Part No.	Description	Qty
KL-0680-2101 A	Locking Pin, Ø 14mm	1
KL-0680-2102 A	Locking Pin, Ø 14/10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	3
KL-0180-3019	Retaining Pin, Ø 1.9mm	1

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KL-0680-211

Reaction Wrench, Ford

Suitable for use on Ford 2.2, 2.4 and 3.2 Diesel engines as found in Transit. (Engine codes: FXFA, H9FA, H9FB, JXFA, P8FA, PHFA, QVFA, QWFA, SAFA)

This tool is designed to counter-hold the crankshaft pulley while loosening and tightening the crankshaft screws.



KL-0680-701 K

Locking Tool Set, Ford, Fiat, PSA 2.2

Applicable to Ford, Fiat, Citroën and Peugeot 2.2 litre Common Rail Diesel engines. For example, fitted to: Ford Transit, Fiat Ducato, Citroën Relay/Jumper III and Peugeot Boxer III.

For locking the crankshaft and camshaft, as well as for aligning the engine front cover when installing it. The set also includes the necessary tool to remove/install crankshaft seal rings. An indispensable tool set when replacing timing chains or performing engine repairs.

Scope of Delivery: KL-0680-701 K Locking Tool Set, Ford, Fiat, PSA 2.2

Part No.	Description	Qty
KL-0680-7011	Locking Tool, Crankshaft	1
KL-0680-7012	Cap for Crankshaft	1
KL-0680-7013	Turning Tool for Injection Pump	1
KL-0680-2102 A	Locking Pin, Ø 14/10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1007	Plastic Storage Case	1

(Engine codes: 4HU (P22DTE), 4HV (P22DTE), CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

KL-0680-103 A

Locking Pin Set for Crankshaft, Ford

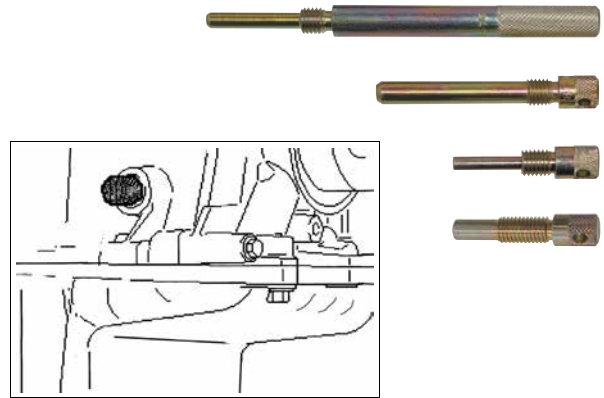
Applicable to Ford 1.25, 1.4, 1.6, 1.7, 1.8, 2.0 litre petrol engines, and 1.8 litre Diesel engines.

The pins are used for locking the crankshaft when replacing the timing belt or during engine repairs.

Scope of Delivery:

KL-0680-103 A Locking Pin Set for Crankshaft, Ford

Part No.	Description	Qty
KL-0680-10	Locking Pin for Crankshaft, Ø 6mm	1
KL-0680-16 A	Locking Pin for Crankshaft, Ø 7.9mm	1
KL-0680-17	Locking Pin for Crankshaft, Ø 5mm	1
KL-0680-18	Locking Pin for Crankshaft, Ø 7.95mm	1



KL-0680-25 A

Locking Tool Kit for Crankshaft, Ford

Applicable to Ford 1.25, 1.4, 2.0, 2.3 and 1.6 litre Ti-VCT TwinCam Duratec petrol engines, and 1.6, 1.8, 2.0, 2.2 litre TDi/TDdi/TDCi as well as 2.0 litre TDCi Diesel engines as installed in Ford Fiesta/Courier, Focus/C-Max, Tourneo Connect, Mondeo, S-Max, Galaxy, Transit Connect; Volvo.

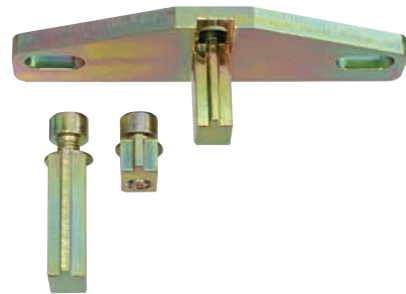
(Engine codes: AZBA, AZBC, AZWA, BHDA/B, BHPA, C9DA/B, C9DC, D4204T, E5FA, E5FC, E5SA, E5SB, F9DA/B, FFBA, FFDA, FFWA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, HCPA, HCPB, HXDA, HXJA, HXJB, IQDA/B, IQDB, IXDA, JQDA/B, JTBA/B, JTDA/B, KGBA, KHBA, KKDA, KKDB, KLBA, KNBA, LPBA, P7PA, P9PA, P9PB, PNBA, PNDA, Q4BA, QJBA, QXBA, QXBB, QXWA, QXWB, QYBA, QYWA, R2PA, R3PA, RHBA, RTJA, RTJB, RWPA, RWPC, SIDA, SNJA, SNJB, SPJA, SPJC, STJA, STJB, T1BA/B/C, TXBA, TXDA, TXDA/B, TXDB, TXWA, TYBA, TYDA, TYWA, TZJA, UFBA, UFDA, UFDB, UFWA, UKBA, UKDA, UKDB, UKWA, ZVSA)

This tool is designed to counter-hold the flywheel while loosening/tightening the crankshaft pulley fastening screws. It can also be used for locking/positioning the crankshaft when replacing the timing belt or during engine repairs.

Scope of Delivery:

KL-0680-25 A Locking Tool Kit for Crankshaft, Ford

Part No.	Description	Qty
KL-0680-2501 A	Adaptor, 2.0 TDCi	1
KL-0680-2502 A	Adaptor, 1.6 Ti-VCT	1
KL-0680-1058 A	Holding Tool for Flywheel with Adaptor, 1.8 Diesel	1



KL-0680-20 A

Vibration Damper Installation/Removal Tool, Ford/Mazda

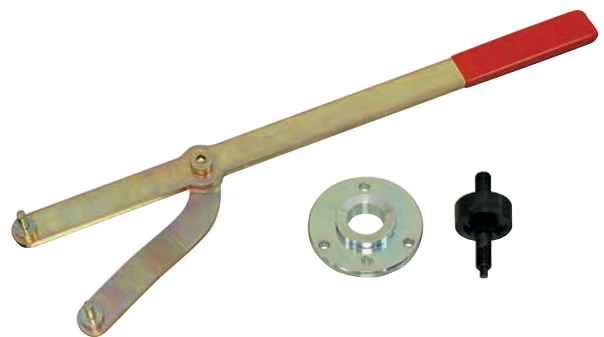
Applicable to Ford Zetec engines as found in Ford Fiesta 1.25, 1.4, 1.6 16V, Puma 1.4, 1.6, 1.7 16V, Focus 2.2, Galaxy 2.0, 2.3, Transit 2.3 and Mazda 121 1.25 16V. (Engine codes: E5FA, E5FC, E5SA, E5SB, QJBA, ZVSA etc.)

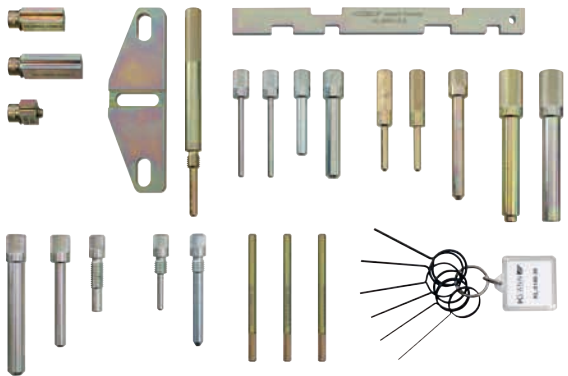
Designed for the removal and installation of vibration dampers. Required for engine repairs or when replacing a timing belt.

Scope of Delivery:

KL-0680-20 A Vibration Damper Installation/Removal Tool, Ford/Mazda

Part No.	Description	Qty
KL-0680-201 A	Reaction Wrench with Pin, Ø 7.5mm	1
KL-0680-202 A	Extraction Plate for Crankshaft Vibration Damper	1
KL-0680-203 A	Installation Tool for Crankshaft Pulley	1





KL-0680-28 K

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.

This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft and injection pump shaft as well as of the timing belt tensioner. Essential tools when replacing timing belts or performing engine repairs.

Scope of Delivery:

KL-0680-28 K Locking Tool Set, Ford

Part No.	Description	Use/Application
KL-0180-30 B	Retaining Pin Set, 0.8-2.6mm	For locking the automatic timing belt tensioner when replacing a timing belt. Consists of: Key fob with ring and 6 retaining pins with Ø 0.8mm, Ø 1.2mm, Ø 1.4mm, Ø 1.5mm, Ø 1.7mm, Ø 1.9mm, Ø 2.4mm, Ø 2.6mm.
KL-0680-10	Locking Pin for Crankshaft, Ø 6mm	1.8 D / TD / Tddi / TDCi Diesel engines. Engine code: BHDA/B, BHPA, C9DA/B/C, F9DA/B, HCPA, KKDA, RFA, RFK, RFL, RFN, RTC, RTJ, RTK.
KL-0680-1058 A	Locking Tool for Flywheel, with Adaptor	1.8 D / TD / TDCi Diesel engines. Engine code: RTN, RTQ, RTP, BHDB, BHPA, C9DA, C9DB, C9DC, F9DA, F9DB, FFBA, FFDA, FFWA, G6DA, G6DB, G6DC, HPCA, HPCB, P7PA, P9PA, QYBA, QYWA, R2PA, R3PA, RWPA, KKDA.
KL-0680-11 A	Locking Pin for Camshaft, Ø 8.3mm	2.5 D / TD / TCI Diesel engines. Engine code: 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4HB, 4HC.
KL-0680-12 A	Locking Pin for Injection Pump, Ø 9.5mm	1.8 D / TD and 2.5 DI / Turbo / TCI Diesel engines. Engine code: 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4HB, 4HC, RFD, RFK, RFN, RKD, RTC, RTH, RTJ, RTK, RVA.
KL-0680-13 A	Locking Pin for Flywheel, Ø 12.9mm	2.5 DI / Turbo / TCI Diesel engines. Engine code: 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4HB, 4HC.
KL-0680-14 A	Locking Pin for Camshaft and Injection Pump, Ø 6mm (2 units)	1.8 D / TD Diesel engines. Engine code: C9DC, RFA, RFD, RFK, RFL, RFN, RTC, RTH, RTJ, RTK.
KL-0680-15 A	Setting Gauge for Camshafts	1.25, 1.4, 1.6, 1.7, 1.8, 2.0 TwinCam petrol engines, and 1.8 D / TD Diesel engines. Engine code: C9DC, MHA, RFA, RFD, RFK, RFL, RFN, RTC, RTH, RTJ, RTK, Zetec DHA/DHB.
KL-0680-16 A	Locking Pin for Crankshaft, Ø 7.9mm	1.6, 1.8, 2.0 16V petrol engines. Engine code: L1F, L1J, NGA, RKA, RKB, Zetec.
KL-0680-17	Locking Pin for Crankshaft, Ø 5mm	1.25, 1.4, 1.6, 1.7 16V petrol engines. Engine code: Zetec DHA, DHB, DHC, DHD, DHE, DHF, DHG, FHA, FHE, LIT, L1V, MHA.
KL-0680-18	Locking Pin for Crankshaft, Ø 7.95mm	Ford petrol engines (1.25 Zetec-SE Sigma, 1.4 Duratec-16V Sigma, 1.6 Duratec-16V Sigma, 2.0 Duratec-RS Zetec, 1.4 Zetec-SE Sigma, 1.6 Zetec-SE Sigma, 2.0 Duratec-ST Zetec) Engine code: F8JA, F8JB, FUJA, FXDA/C, FXDB/D, FXJA, FXJB, FYDA/C, FYDB/D, FYDH, FYJA, FYJB, HWDA, HXDA.
KL-0680-2101 A	Locking Pin for Flywheel, Ø 14mm	Ford 2.0/2.4 16V TDCi engines.
KL-0680-2102 A	Locking Pin for Flywheel, Ø 13.5/9.5mm	Ford 2.0/2.4 16V TDdi engines.
KL-0680-2103 A	Locking Pin for Camshafts and Injection Pump, Ø 6mm	Ford 2.0/2.4 16V TDdi/TDCi engines. Engine code: FMBA/B, D5BA, ABFA, D3FA, F3FA, D2FA, D4FA, F4FA.
KL-0680-2201 A	Locking Pin for Flywheel, Ø 11mm	1.4, 1.6 HDi (PSA) and 1.4, 1.6 TDCi (Ford) engines. Engine code: 8HV, 8HW, 8HX, 9HX, 9HZ DV4TD, DV4TED4, DV6ATED4, DV6TED4 and F6JA, F6JB, F6JC, G8DA, G8DB, HHDA.
KL-0680-2202 A	Locking Pin for Crankshaft and Injection Pump, Ø 4.5mm	Application as KL-0680-2201 A.
KL-0680-2203 A	Locking Pin for Camshaft, Ø 7.5mm	Application as KL-0680-2201 A, + 2.0 and 2.2.
KL-0680-2501 A	Adaptor 2.0 TDCi for KL-0680-1058 A	Engine code: AZWA, G6DA, G6DB, G6DC, QXWA.
KL-0680-2502 A	Adaptor 1.6 Ti-VCT for KL-0680-1058 A	Engine code: HXDA.
KL-0680-2890	Plastic Storage Case	

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(Engine codes: 224DT, 4AB, 4BA, 4BB, 4BC, 4CA, 4CB, 4CC, 4DA, 4EA, 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4GF, 4HA, 4HB, 4HC, 4HD, 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, ABFA, ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, AZBA, AZBC, ATWA, BG, BHDA/B, BHPA, BP, C9DA/B, C9DC, CDBB, CGBA/B, CJBA/B, CSDA, CSDB, D2FA, D2FB, D3FA, D4FA, D4162T, D4164T, D4204T, D5BA, D6BA, DOFA, DV4C, DV4TD, DV4TED, DV4TED4, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6C, DV6DTEd, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, E5FA, E5FC, E5SA, E5SB, EDDBA/C, EDDBB, EDDBD, EDDB, EDCC, EDDDD, EDDDF, 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, FFA, FMBA/B, FP, FS, FUJA, FUJB, FXFA, FXJA/B, FYJA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, G8DA, G8DB, G8DD, GPDA, GZ, GZFA, GZFB, GZFC, H9FA, H9FB, HCPA, HCPB, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, HJBA, HJBB, HJBC, HJBE, HMDA, HXDA, HXJA, HXJB, IQDA/B, IQDB, IXDA, JQDA/B, JTBA/B, JTDA/B, JXFA, KGBA, KHBA, KKDA, KKDB, KL, KLBA, KNBA, L1L, L1N/Q, L3, L5, L8, LF, LPBA, MZ-CD 1.6, MZR 1.8, N4JB, N7BA, N7BB, NGB, NGC, NGD, P7PA, P8FA, P9PA, P9PB, PHFA, PNBA, PNDA, Q4BA, Q7DA, QJBA, QJBB, QJBC, QJBD, QQDA, QQDB, QQDC, QVFA, QWFA, QXBA, QXBB, QXWA, QXWB, QYBA, QYWA, R2PA, R3PA, RFD, RFK, RFS, RHBA, RKF, RKH, RKJ, RKK, RTE, RTF, RTH, RTJ, RTJA, RTJB, RTK, RVA, RWPA, RWPC, SAFA, SEBA, SEWA, SIDA, SNJA, SNJB, SPJA, SPJC, STJA, STJB, SYDA, T1BA/B/C, TBBA, TBBB, TBWA, TBWB, TNBA, TXBA, TXDA, TXDA/B, TXDB, TXWA, TYBA, TYDA, TYWA, TZJA, UFBA, UFDA, UFDB, UFWA, UKBA, UKDA, UKDB, UKWA, Y6, YF, ZVSA)

KL-0680-100 B Locking Tool Set, Ford

Applicable to Ford 1.6, 1.8, 2.0 and 2.5 litre petrol and Diesel engines as found in Ford Cougar, Escort, Fiesta, Focus, Maverick, Mondeo, Orion, Tourneo, Transit; Mazda Tribute; LDV Convoy.

(Engine codes: 4AB, 4BA, 4BB, 4BC, 4CA, 4CB, 4CC, 4EA, 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4GF, 4HA, 4HB, 4HC, 4HD, ALDA, EAB, EDBA/C, EDBB, EDBD, Eddb, EDdc, EDDd, EDDf, EYDL, EYPA, EYPC, NGB, NGC, NGD, RFD, RfK, RfS, RkF, RkH, RkJ, RkK, RTE, RTf, RTH, RTJ, RTK, RVA, YF)

The correct position of the engine shafts such as camshaft and injection pump shaft relative to the crankshaft (accurate timing adjustment) is absolutely essential when replacing a timing belt or during an engine repair.

Only then will the optimal engine power be achieved and engine failure be prevented.

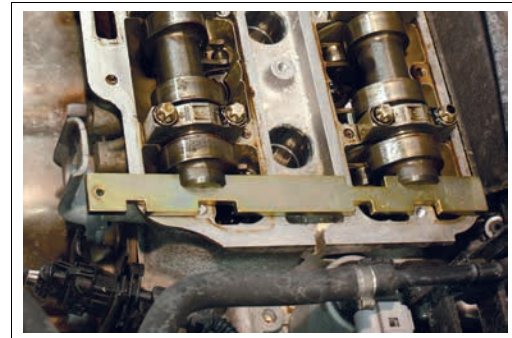
Technical Data:

Part No.	Length		Handle Ø	Thread	Weight
KL-0680-100 B	-	-	-	-	0.4kg
KL-0680-10	150mm	6.0mm	12mm	M10	-
KL-0680-11 A	80mm	8.3mm	15mm	-	-
KL-0680-12 A	95mm	9.5mm	15mm	-	-
KL-0680-13 A	100mm	12.9mm	15mm	-	-
KL-0680-14 A	75mm	6.0mm	12mm	-	-
KL-0680-16 A	80mm	7.9mm	-	M10	-

Scope of Delivery:

KL-0680-100 B Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-10	Locking Pin for Crankshaft	1
KL-0680-11 A	Locking Pin, Ø 8.3mm	1
KL-0680-12 A	Locking Pin, Ø 9.5mm	1
KL-0680-13 A	Locking Pin, Ø 12.9mm	1
KL-0680-14 A	Locking Pin, Ø 6mm	2
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-16 A	Locking Pin for Crankshaft	1



KL-0184-061 Reaction Wrench, Ford

Applicable to Ford, Mazda, Volvo 1.3, 1.5, 1.6, 1.8, 2.0 and 2.3 litre engines; as installed in Ford Focus/C-Max, Mondeo, S-Max, Galaxy; Mazda 2, 3, 5, 6, CX-7, MX-5; Volvo C30, S40, V50, V70, S80.

(Engine codes: B4184S11, B4184S8, B4204S3, B4204S4, L3 Turbo, LF, LF (MZR DISI), MZ-CD 1.6 (Y6), MZR 1.3 (ZJ), MZR 1.5 (ZY), MZR 1.8 (L8), MZR 2.0 (LF), ZJ, ZY)

This tool is designed to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw. It is required when replacing timing belts and for engine repairs.

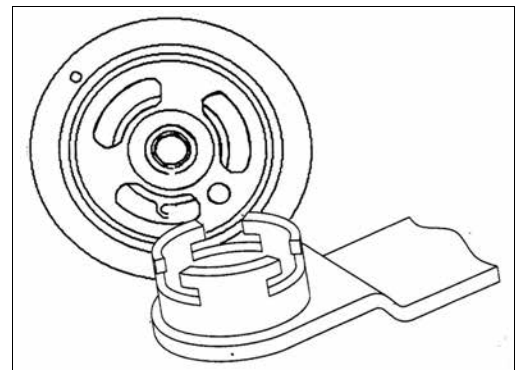
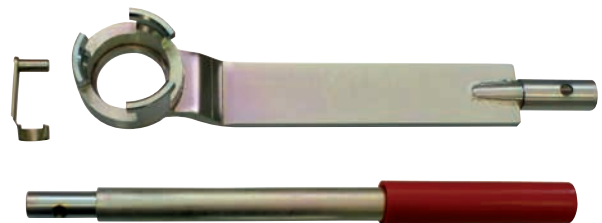
Technical Data:

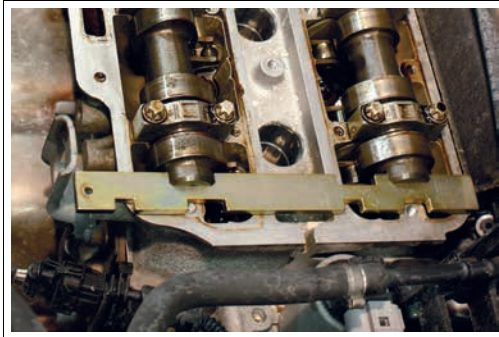
Overall length (of assembled tool):	754mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm

Scope of Delivery:

KL-0184-061 Reaction Wrench, Ford

Part No.	Description	Qty
KL-0184-0610	Reaction Wrench (Base Tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1





KL-0680-27 A Locking Tool Set, Ford

Applicable to Ford and Mazda 1.25, 1.4, 1.6, 1.7, 1.8, 2.0, 2.3 and 2.5 litre TwinCam Duratec petrol engines (timing belt/timing chain), as installed in: Ford C-Max, Courier, Cougar, Fiesta, Fusion, Focus, Galaxy, Maverick, Mondeo, Puma, S-Max, Tourneo Connect and Transit Connect; Mazda 121, 2, 3, 323, 5, 6, MPV, Tribute and Xedos 9.

(Engine codes: ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, BP, CDBB, CGBA/B, CHBA/B, CJBA/B, CSDA, CSDB, E5FA, E5FC, E5SA, E5SB, EDDB, EDDC, EDDD, EDDF, EYDB, EYDC, EYDD/E, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F8JA, F8JB, FE, FP, FS, FUJA, FUJB, FXJA, FXJA/B, FYJA, FYJB, FYJC, GZ, GZFA, GZFB, GZFC, HMDA, KL, L3, L5, L8, LF, MZR 1.8 (L8), N4JB, Q7DA, QQDA, QQDB, QQDC, SEBA, SEWA, SYDA, TBBA, TBBB, TBWA, TBWB, TNBA, YF, ZVSA)

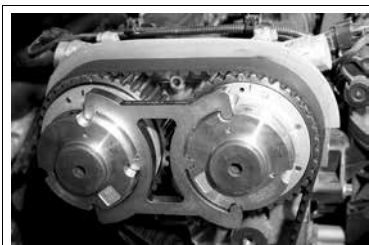
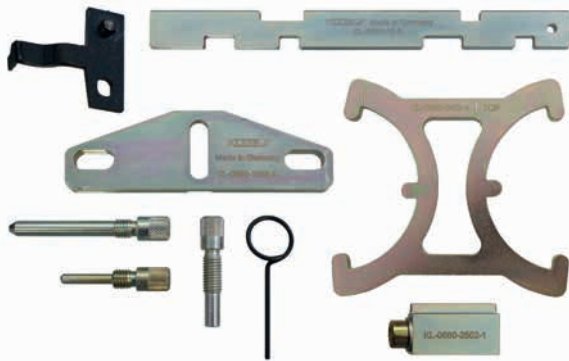
This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft and the timing belt tensioner. It is required when replacing timing belts/timing chains and for engine repairs.

Scope of Delivery:

KL-0680-27 A Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-16 A	Locking Pin for Crankshaft	1
KL-0680-18	Locking Pin for Crankshaft	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1

6



KL-0680-24 KB Locking Tool Set, Ford

Applicable to Ford 1.25, 1.4, 1.6, 1.8, 2.0, 2.3 and 2.5 litre petrol engines as found in Ford C-Max, Fiesta, Fusion, Focus, Galaxy, Ka, Maverick, Mondeo, S-Max, Tourneo Connect, Transit Connect; Mazda 2, 3, 323, 5, 6, E-Series, MPV, MX-5, Premacy, Tribute, Xedos 9; Volvo C30, S40, S60, S80, V40, V50, V60, V70.

(Engine codes: ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, ASDA, ASDB, B4164S2, B4164S3, B4164T, B4164T2, B4164T3, BP, CDBB, CDB/C, CDRA/B, CGBA/B, CJBA/B, CSDA, CSDB, E5FA, E5FC, E5SA, E5SB, EDDB, EDDC, EDDD, EDDF, EYDB, EYDC, EYDD/E, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F8JA, F8JB, FE, FP, FS, FUJA, FUJB, FXDA/C, FXDB/D, FXJA, FXJA/B, FXJB, FXJC, FYDA/C, FYDB/D, FYDH, FYJA, FYJB, FYJC, GZ, GZFA, GZFB, GZFC, HMDA, HWDA, HWDB, HXDA, HXJA, HXJB, IQDA/B, IQDB, 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)

Designed for the locking/positioning of camshaft, crankshaft and timing belt tensioner. The kit also includes a tool to adjust the VCT unit. An indispensable tool set when replacing timing belts or performing engine repairs.

Scope of Delivery:

KL-0680-24 KB Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-18	Locking Pin for Crankshaft	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0680-2403 A	Setting Gauge for Camshaft	1
KL-0680-2404 A	Locking Tool for Flywheel	1
KL-0680-15 A	Setting Gauge for Camshaft	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-16 A	Locking Pin for Crankshaft	1
KL-0680-2405 A	Locking Tool for Vibration Damper	1
KL-0680-2490 A	Plastic Storage Case	1

KL-0680-23 KB Locking Tool Set, Ford

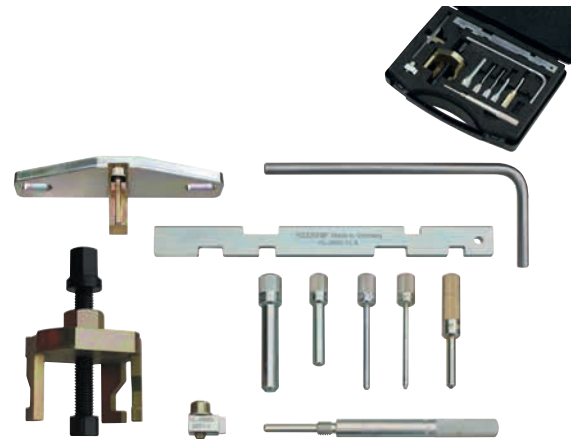
Applicable to Ford 1.4, 1.6, 1.8, 2.0 and 2.2 litre petrol engines as found in Ford C-Max, Fiesta, Focus, Fusion, Galaxy, Kuga, Mondeo, S-Max, Tourneo Connect; Mazda 2; Volvo C30, C70, S40, S80, V50, V70.

Designed for the locking/positioning of camshafts, crankshaft and injection pump. The kit also includes a tool to remove the camshaft sprocket. An indispensable tool set when replacing timing belts/performing engine repairs.

Scope of Delivery:

KL-0680-23 KB Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-2203 A	Locking Pin for Camshaft, Ø 8mm	1
KL-0680-2202 A	Locking Pin for Injection Pump and Crankshaft, Ø 4.5mm	2
KL-0680-2201 A	Locking Pin for Flywheel, Ø 11mm	1
KL-0680-2302 A	Locking Pin (angled), Ø 8mm	1
KL-0680-1058 A	Locking Tool for Flywheel, with Adaptor	1
KL-0680-2501 A	Adaptor, 2.0 TDCi	1
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-1053 A	Camshaft Sprocket Puller	1
KL-0680-10	Locking Pin for Crankshaft	1
KL-0680-14 A	Locking Pin, Ø 6mm	1
KL-0680-1090	Plastic Storage Case	1



(Engine codes: AZBA, AZBC, AZWA, BHDA/B, BHPA, C9DA/B, C9DC, D4162T, D4164T, D4204T, D4204T2, F6JA, F6JB, F6JC, F6JD, F9DA/8, FFBA, FFDA, FFWA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, G8DA, G8DB, G8DD, GPDA, HCPA, HCPB, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, IXDA, KHBA, KKDA, KKDB, KLBA, KNBA, LPBA, P7PA, P9PA, P9PB, Q4BA, QXBA, QXBB, QXWA, QXWB, QYBA, QYWA, R2PA, R3PA, RWPA, RWPC, T1BA/B/C, TXBA, TXDA, TXDA/B, TXDB, TXWA, TYBA, TYWA, TYDA, TZJA, UFBA, UFDA, UFDB, UFWA, UKBA, UKDA, UKDB, UKWA)

KL-0680-101 Locking Tool Set, Ford

Applicable to Ford 1.6, 1.8 and 2.0 litre ZETEC SE petrol engines as found in Ford Cougar, Focus, Maverick, Mondeo, Tourneo, Transit; Mazda Tribute.

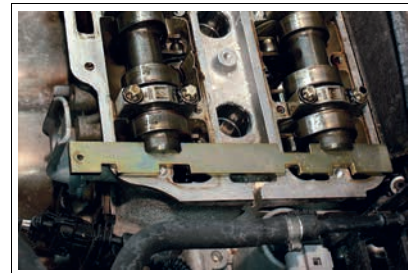
(Engine codes: ALDA, EDBA, EDBB, EDBC, EDBD, EDDB, EDDC, EDDD, EDDF, EYDB, EYDC, EYDD, EYDE, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, L1L, L1N/Q, NGB, NGC, NGD, RKF, RKH, RKJ, RKK, YF)

This tool set is designed to be used for extracting the camshaft timing belt sprocket as well as for locking/positioning engine shafts such as camshaft and crankshaft. It is required when changing a timing belt and for engine repairs.

Scope of Delivery:

KL-0680-101 Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-16 A	Locking Pin for Crankshaft	1



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KL-0680-751 K Locking Tool Set, Ford

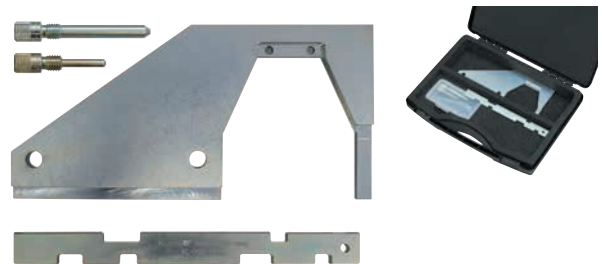
Applicable to Ford 1.8, 2.0 and 2.3 petrol engines as found in Ford Mondeo; Mazda 3, 5, 6, CX-7. (Engine codes: CFBA, LF, L3 Turbo, MZR 2.0, MZR DISI)

Designed for the locking/positioning of camshafts and crankshaft. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0680-751 K Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-7511	Locking Tool for Camshaft	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-15 A	Setting Gauge for Camshaft	1
KL-0680-16 A	Locking Pin for Crankshaft	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1





KL-0680-752 K Locking Tool Set, Ford 2.0

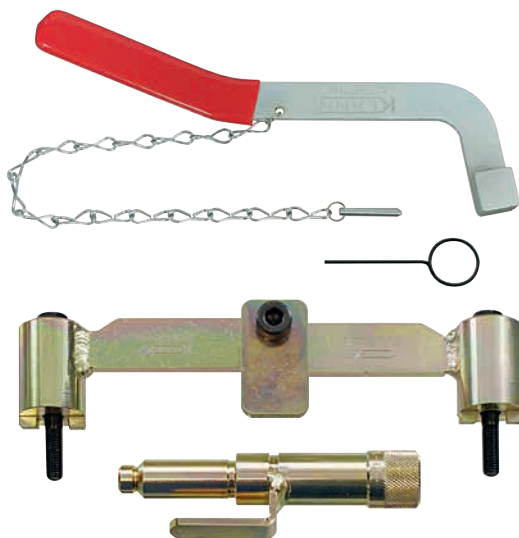
Applicable to Ford 2.0 litre engines as found in Ford Galaxy, Mondeo, S-Max. (Engine codes: TNBA, TNWA, TNWB, TPBA, TPWA)

Designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner. The kit also includes a tool to align the crankshaft position sensor. An indispensable tool set when changing a timing belt, performing an engine repair or when installing the crankshaft position sensor and front sensor disc.

Scope of Delivery:

KL-0680-752 K Locking Tool Set, Ford 2.0

Part No.	Description	Qty
KL-0680-7521	Locking Tool for Camshaft	1
KL-0680-7522	Locking Tool for Camshaft	1
KL-0680-7523	Crank Position Sensor Alignment Tool	1
KL-0680-18	Locking Pin for Crankshaft	1
KL-0180-3019	Locking Pin, Ø 1.9mm	1
KL-4990-2002	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



KL-1280-22 A Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

Applicable to Renault and Volvo TwinCam petrol engines.

Renault 2.0 16V (N7Q) and 2.5 20V (N7U) as found in Laguna and Safrane.

Volvo 1.8 16V (B4184 S2/S9), 1.9 T4 (B4194 T2) and 2.0 16V/T (B4204 S2/T3) as found in S40 I and V40.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft when changing a timing belt or during engine repairs.

Scope of Delivery:

KL-1280-22 A Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

Part No.	Description	Qty
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-0180-3019	Retaining Pin for Hydraulic Tensioner Pulley, Ø 1.9mm	1
KL-1280-224 A	Tensioner Spanner with Retaining Pin for Auxiliary Belt	1

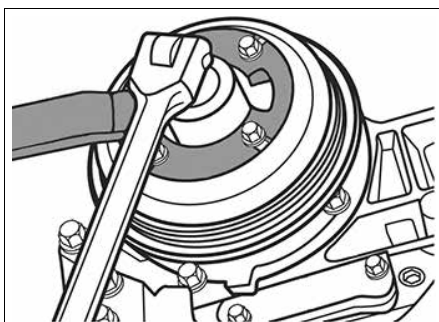


KL-0780-30 Counter-Holding Tool, Crankshaft

Applicable to Ford 2.5 and Volvo 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5, 2.8 and 2.9 litre 4- and 5-cylinder petrol engines, and 2.0 and 2.4 litre 5-cylinder Diesel engines. Fitted to: Ford Focus, Galaxy, Kuga, Mondeo, S-MAX and Volvo C30, C70, S40, S60, S70, S80, V40, V50, V70, XC70, XC90.

(Engine codes: Ford HUBA, HUWA, HYDA, HYDB, JZDA, LCBD; Volvo B4164S, B4184S, B4194T, B4204S, B4204T, B5204T3, B5204T4, B5204T5, B5234FS, B5234T3, B5234T7, B5234T8, B5234T9, B5244S, B5244S2, B5244S4, B5244S5, B5244S7, B5244SG, B5244SG2, B5244T, B5244T2, B5244T3, B5244T4, B5244T5, B5244T7, B5254FS, B5254T, B5254T10, B5254T11, B5254T2, B5254T3, B5254T4, B5254T5, B5254T6, B5254T7, B5254T8, B6284T/T2, B6294S, B6294S2, B6294T, B6304S3, D5204T, D5204T2, D5204T3, D5204T5, D5244T, D5244T10, D5244T11, D5244T13, D5244T14, D5244T15, D5244T16, D5244T17, D5244T18, D5244T19, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7, D5244T8, D5244T9)

This tool is designed to be used for counter-holding the vibration damper while loosening and tightening the crankshaft central screw.



KL-0280-755 K

Locking Tool Set, VW 2.8, 3.2, 4.0 and 6.0

Applicable to VW-Audi, Seat and Ford Galaxy 2.8, 3.2 VR6, 4.0 W8 and 6.0 W12 petrol engines as found in: VW Bora, Sharan, Eos, Golf, Transporter T4, Transporter T5, Passat, Phaeton, Touareg; Audi A3, TT, A8; Seat Alhambra, Leon, and Ford Galaxy etc.

(Engine codes: AES, AUE, AYL, AYT, AZZ, BAA, BAN, BAP, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHT, BJN, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BRN, BRP, BSB, BTE, BTT, BUB, CBRA)

Professional tool set for the locking/positioning of camshafts, crankshaft and timing chain tensioner. Indispensable when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0280-755 K Locking Tool Set, VW 2.8, 3.2, 4.0 and 6.0

Part No.	Description	Qty
KL-0280-10	Locking Pin, Audi V6	1
KL-0280-951 A	Setting Gauge for Camshafts, VW-Audi	1
KL-0280-7551	Camshaft Alignment Tool (2-piece set)	1
KL-0280-7552	Chain Tensioner-Holding Tool	1
KL-4990-1107	Plastic Storage Case	1



KL-0280-951 A

Setting Gauge for Camshafts, VW-Audi

Suitable for use on VW-Audi 2.3, 2.8, 2.9, 3.2 and 6.0 litre petrol engines as found in VW Golf, Bora, Vento, Corrado, Passat, Sharan, Transporter; Seat Leon, Toledo, Alhambra; Ford Galaxy.

(Engine codes: AES, AGZ, AQN, AUE, AYL, AZX, BDE, BHE, BHT, BSB, BTE etc.)

This tool is designed for the locking/positioning of camshafts. It is required when changing timing chains and for engine repairs.



6

KL-0482-45 KA

Locking Tool Set, Opel/Vauxhall 1.3 CDTi

Applicable to Opel/Vauxhall (Suzuki/Subaru) 1.3 litre CDTi/DDiS Diesel engines (Engine codes: A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Z13DT, Z13DTH, Z13DTI, Z13DTJ, Z13DTR) as found in Corsa, Swift etc.

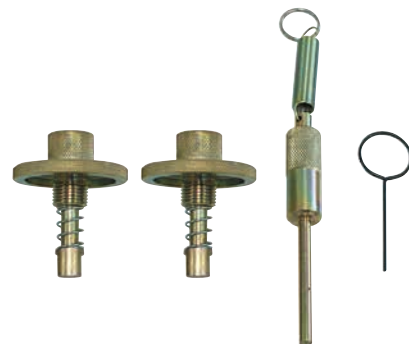
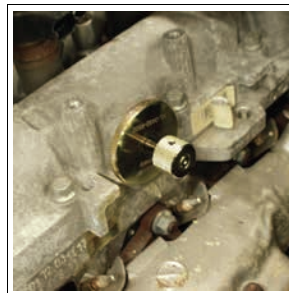
Applicable to Fiat (Alfa/Ford/Lancia/Citroën/Peugeot) 1.3 litre engines. (Engine codes: 169A1.000; 169A1.000 (FD4)/BAAA/B; 169A5.000; 188A8.000; 188A9.000; 199A2.000; 199A3.000; 199A9.000; 199B1.000; 199B1.0000; 199B2.000; 199B4.000; 223A9.000; 263A2.000; 263A2.000; F13DTE5 (FHZ))

This tool set is designed for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as of the timing chain tensioner while replacing a timing chain or during an engine repair.

Scope of Delivery:

KL-0482-45 K Locking Tool Set, Opel/Vauxhall 1.3 l CDTi

Part No.	Description	Qty
KL-0482-450 A	Locking Tool for Camshaft (2 pcs.)	1
KL-0482-451 A	Locking Pin for Crankshaft, Ø 6mm	1
KL-0482-434	Retaining Pin, Ø 2.4mm	1
KL-0482-4590 A	Plastic Storage Case	1





KL-0482-46 KB

Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall, Alfa Romeo, Fiat, Lancia and Suzuki 1.6, 1.9, 2.0 and 2.4 litre Diesel engines as found in: Opel/Vauxhall Astra, Astra-H, Insignia, Signum, Vectra-C, Zafira-B; Saab 9-3, 9-5; Alfa 147, 156, 159, 166, Brera, Giulietta, GT, Mito, Spider; Fiat Bravo, Cromia, Doblo, Idea, Linea, Marea, Multipla, Punto, Ritmo, Sedici, Stilo, Strada; Lancia Delta, Lybra, Musa, Thesis; Suzuki SX4.

(Engine codes: 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A3.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A5.000, 192A8.000, 192A9.000, 192B1.000, 192B4.000, 192B5.000, 198A2.000, 198A3.000, 198A5.000, 198A6.000, 199A5.000, 223A6.000, 223A7.000, 223B1.000, 350A2.000, 350A3.000, 362.02, 371.01, 839A6.000, 841C.000, 841G.000, 841H.000, 841M.000, 841P.000, 844A1.000, 844A2.000, 844A3.000, 937A2.000, 937A3.000, 937A4.000, 937A5.000, 937A6.000, 939A1.000, 939A2.000, 939A3.000, 939A7.000, 939A8.000, 939A9.000, 939B3.000, 939B4.000, 940A3.000, 940A4.000, 940A5.000, 955A3.000, 955A4.000, A20DTC, A20DTH, A20DTJ, A20DTR, D19AA, D20AA, LBS, LBX, LBY, LCD, RHT, Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z19DTR)

Designed for the locking/positioning of camshafts, crankshaft, and flywheel. The kit also includes a tool to lock the V-ribbed belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0482-46 KB Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-1682-202 A	Locking Tool for Crankshaft	1
KL-0482-461 A	Locking Pin Set for Camshaft	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1682-131 A	Flywheel Holding Tool	1
KL-1682-4290 A	Plastic Storage Case	1

6



KL-0482-46 KA

Locking Tool Set, Fiat/Opel/Vauxhall

Application: Opel/Vauxhall and Saab 1.9 and 2.0 CDTi Diesel engines; as fitted to Opel/Vauxhall Vectra, Signum etc.

(Engine codes: LBS/A20DTH, LBX/A20DTJ, LBY/A20DTR, LCD/A20DTC, Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z19DTR)

Also applicable to Alfa Romeo* and Fiat* 1.6 8/16V Multijet; 1.9 8/16V and 2.4 10/20V JTD Common Rail Diesel engines; as fitted to Alfa Romeo: 145, 146, 147, 156, 159, 166, GT; Fiat: Punto, Grande Punto, Brava/Bravo, Marea/Weekend, Stilo, Doblo/Cargo, Multipla; Lancia; Suzuki.

(Engine codes: 198A2.000, 198A3.000, 198A6.000, 350A2.000, 350A3.000, 844A3.000, 940A3.000, 955A3.000, 955A4.000, D19AA, RHT, 323.02, 371.01, 182B4.000, 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A3.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A8.000, 192A9.000, 192B4.000, 192B5.000, 199A5.000, 223A6.000, 223A7.000, 223B1.000, 844A1.000, 937A2.000, 937A3.000, 939A1.000, 939A7.000; 192A5.000, 192B1.000, 937A4.000, 937A5.000, 937A6.000, 939A2.000, 939A8.000; D20AA, 198A5.000, 844A2.000, 939B3.000, 939B4.000, 940A4.000, 940A5.000; 325.01, 342.02, 362.02, 185A6.000, 839A6.000, 841C.000; 841G.000, 841H.000, 841M.000, 841P.000, 939A3.000, 939A9.000.)

Designed to lock and/or position engine shafts such as camshaft and crankshaft*, as well as to hold the timing belt tensioner in position when replacing a timing belt or during an engine repair.

*Note: The KL-0482-46 KA locking tool set does not include the KL-1682-131 A flywheel holding tool.

Scope of Delivery:

KL-0482-46 KA Locking Tool Set, Fiat/Opel/Vauxhall

Part No.	Description	Qty
KL-1682-202 A	Locking Tool for Crankshafts, 1.9 JTD and 2.4 JTD	1
KL-0482-461 A	Locking Pin for Camshaft (2 pcs.)	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-0482-4690 A	Plastic Storage Case	1

KL-0482-701

Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall 1.7 DI / DTI / CDTI Diesel engines as found in: Astra-G, Astra-H, Astra-J, Combo-C, Corsa-C, Corsa-D, Meriva-A, Meriva-B, Zafira-A, Zafira-B. (Engine codes: A17DT, A17DTC, A17DTJ, A17DTR, A17DTS, LPL, LPV, LUB, LUD, LUE, Y17DT, Y17DTI, Y17DTL, Z17DT, Z17DTH, Z17DTJ, Z17DTL, Z17DTR)

These tools are used for locking/positioning engine shafts such as camshaft and injection pump shaft, as well as the V-ribbed belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0482-701 Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1280-241 A	Hex Screw, M6x60mm	2
KL-0482-483	Retaining Pin (angled), Ø 4.5mm	1



KL-1280-24 KC

Locking Tool Set, Renault

Applicable to Renault, Opel/Vauxhall and Nissan 1.5, 1.9, 2.2, 2.5, 2.8 and 3.0 litre Common Rail Diesel engines as found in Renault Clio II / III, Espace IV, Fluence, Kangoo I / II, Laguna II / III, Logan, Mascott, Master II, Megane I / II / III, Modus I / II, Scenic I / II / III, Traffic II, Twingo II, Vel Satis; Dacia Duster, Logan; Nissan Cube, Interstar, Juke, Kubistar, Micra, Navara, Note, NV200, Primastar, Qashqai, Tiida; Suzuki Grand Vitara, Jimny; Mitsubishi Carisma, Space Star; Opel/Vauxhall Movano-A, Vivaro.

(Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, G9T 600, G9T 605, G9T 606, G9T 607, G9T 642, G9T 645, G9T 700, G9T 702, G9T 702/703, G9T 703, G9T 706, G9T 707, G9T 720, G9T 722, G9T 742/743, G9T 750, G9T F722, G9U 630, G9U 632, G9U 650, G9U 720, G9U 724, G9U 726, G9U 730, G9U 750, G9U 754, G9U A720, K9K, K9K 262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702, VG30E)

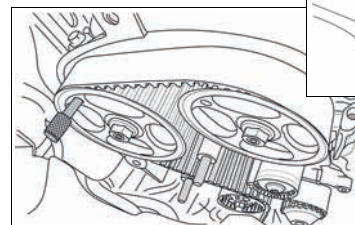
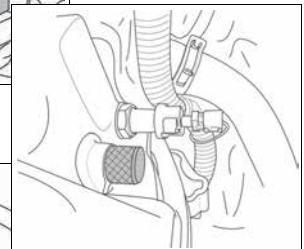
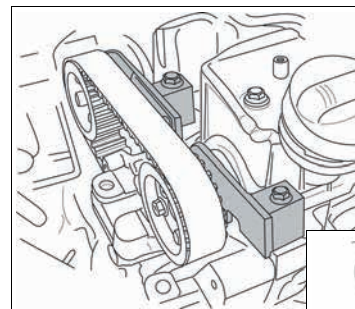
Designed for the locking/positioning of camshafts, crankshaft, injection pump, timing belt tensioner and flywheel. The kit also includes tools to stretch/pre-set the tension on the timing belt.

An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-24 KC Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-203 A	Lockin Pin, Ø 4.9mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-242 A	Locking Tool for Camshafts	1
KL-1280-243 B	Locking Pin, Ø 7mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1





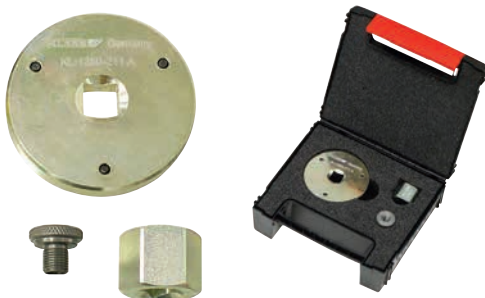
KL-1280-702 K Locking Tool Set, Renault

Applicable to Mitsubishi, Nissan, Opel/Vauxhall, Renault, and Suzuki 1.9 and 3.0 litre Diesel engines as found in: Renault Clio II, Espace IV, Kangoo, Laguna II, Master II, Megane I / II / III, Scenic I / II / III / RX4, Traffic II; Opel/Vauxhall Movano-A, Vivaro; Mitsubishi Carisma, Space Star; Nissan Interstar, Primastar, Navara; Suzuki Grand Vitara; Volvo S40/V40. (Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, VG30E)

Designed for the locking/positioning of the crankshaft, injection pump and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-702 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1



KL-1280-21 KA Injection Pump Adjustment Tool, Renault 1.9 D

Applicable to Renault, Mitsubishi, Opel/Vauxhall and Volvo 1.9 litre direct-injection Diesel engines with adjustable injection pump sprocket as found in Renault Megane/Scenic, Kangoo; Mitsubishi Carisma, Space Star; Opel/Vauxhall Arena; Nissan Interstar, Primastar and Volvo S40/V40.

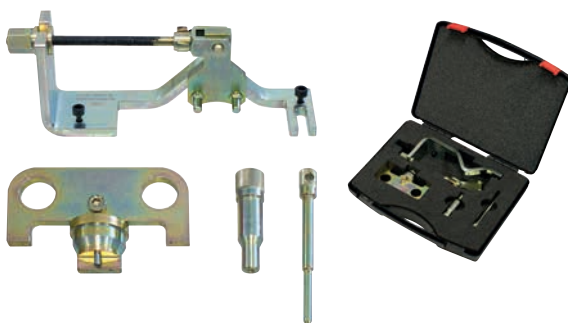
This injection pump adjustment tool is used in conjunction with the KL-0129-1 A tool set and the corresponding locking tools for adjusting the injection pump timing relative to the crankshaft (start-of-delivery setting).

Scope of Delivery: KL-1280-21 KA Injection Pump Adjustment Tool

Part No.	Description	Qty
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-0129-2105 A	Adaptor for Bosch Pumps, M10x1 to M8x1	1
KL-1280-2190	Plastic Storage Case	1

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(Engine codes: F8Q, F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, D 4192 T, D 4192 T2)



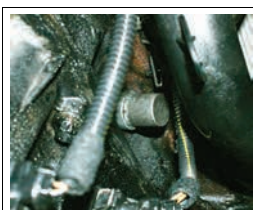
KL-0482-41 KB Locking Tool Set, Opel/Vauxhall 2.0 D, 2.2 D

Suitable for the Opel/Vauxhall 2.0 and 2.2 ECOTEC/DTi Diesel engines as found in Opel/Vauxhall Astra, Astra Caravan, Zafira, Vectra, Omega, Sintra and Frontera. (Engine codes: X20DTL, X22DTH, Y20DTL, X20DTH, Y22DTH, Y20DTH, Y22DT, Y22DTR)

Designed to lock/position engine shafts such as camshaft, crankshaft as well as the injection pump and camshaft sprocket while adjusting the timing. Required when replacing a timing chain or during an engine repair.

Scope of Delivery: KL-0482-41 KB Locking Tool Set, Opel/Vauxhall 2.0 D, 2.2 D

Part No.	Description	Qty
KL-0482-411 A	Setting Gauge for Camshaft	1
KL-0482-412 A	Locking Pin for Crankshaft	1
KL-0482-413 A	Locking Pin for Injection Pump	1
KL-0482-414 B	Adjustment Tool for Camshaft Sprocket	1
KL-0482-4190 A	Plastic Storage Case	1



KL-0482-42 B

Diesel Suction Pump with 700mm Hose, Opel/Vauxhall

Suitable for use on Opel/Vauxhall 2.0 and 2.2 Ecotec Diesel engines with VP 44 injection pump. (Engine codes: X20DTL, X20DTH, X22DTH)

This pump is needed to bleed the fuel system if the latter has been opened, for example, for a fuel filter replacement or for an engine repair.

Scope of Delivery: KL-0482-42 B Diesel Suction Pump with 70cm Hose

Part No.	Description	Qty
KL-0482-42 A	Diesel Suction Pump	1
KL-0482-420 B	Hose 700mm	1

Note: The KL-0482-420 B hose (700mm) is also individually available to allow the KL-0482-42 A Diesel suction pump to be upgraded to KL-0482-42 B.



KL-0482-48 A

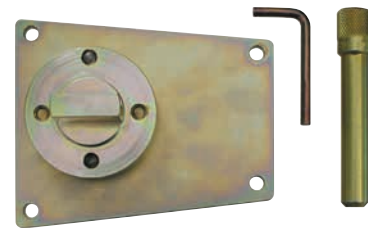
Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall and Chevrolet 2.0 litre Diesel engines as found in: Opel/Vauxhall Antara, Captiva; Chevrolet Captiva, Cruze, Epica, Lacetti, Nubira. (Engine codes: LLW, RA420, Z20DM, Z20DMH, Z20S1)

These tools are designed to be used for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as for locking the V-ribbed belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-0482-48 A Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-481	Locking Tool for Camshaft	1
KL-0482-482	Locking Pin, Ø 12mm	1
KL-0482-483	Retaining Pin (angled), Ø 4.5mm	1



KL-1280-27 K

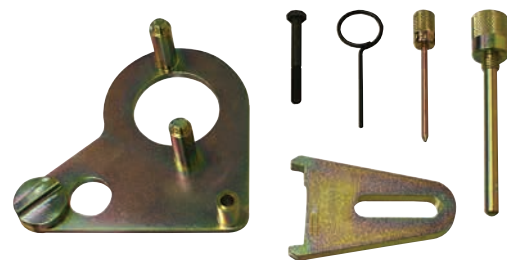
Locking Tool Set, Renault 2.0 dCi

Applicable to Renault, Nissan, Opel/Vauxhall 2.0 and 2.3 dci Diesel engines as found in Renault Espace IV, Koleos, Laguna, Master, Megane, Senic III, Traffic II, Vel Satis; Nissan: Primastar, Qashqai, X-Trail; Opel/Vauxhall: Movano-B, Vivaro. (Engine codes: M9R, M9T)

Designed for the locking/positioning of camshaft, crankshaft and timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-1280-27 K Locking Tool Set, Renault 2.0 dCi

Part No.	Description	Qty
KL-1280-271	Locking Tool for Camshaft	1
KL-1280-272	Locking Pin, M10/Ø 7.5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0182-19 A	Flywheel Locking Tool	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1280-2790	Plastic Storage Case	1



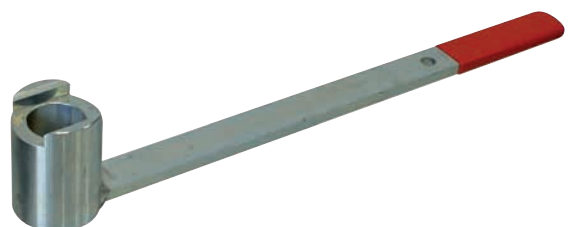
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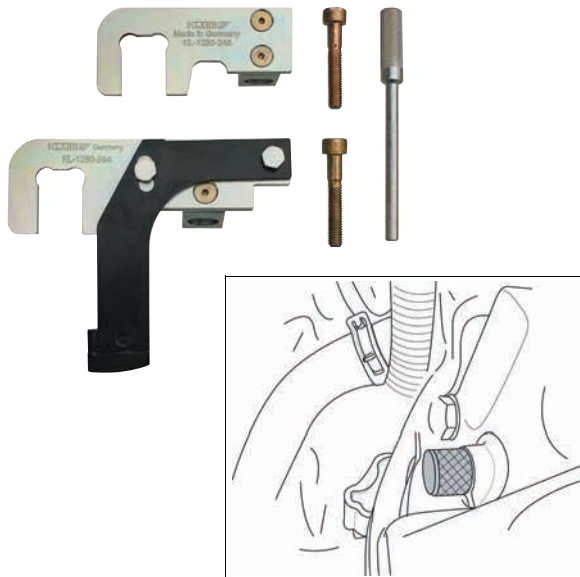
KL-1280-273

Reaction Wrench

Applicable to Renault, Nissan, Opel/Vauxhall 2.0 dci, 2.3 dCi/CDTi and 3.0 dCi Diesel engines as found in Renault Espace, Koleos, Laguna, Latitude, Master, Megane, Traffic, Vel Satis; Nissan Primastar, Qashqai, X-Trail; Opel/Vauxhall Movano-B, Vivaro. (Engines codes: M9R, M9T, V9X)

This tool is used to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw. Required when replacing a timing belt or performing an engine repair.





KL-1280-703

Locking Tool Set, Renault

Applicable to Nissan, Opel/Vauxhall and Renault 2.2 and 2.5 litre Diesel engines as found in: Renault Espace, Laguna II, Master II, Traffic II, Vel Satis; Opel/Vauxhall Movano-A, Vivaro; Nissan Interstar, Primastar.

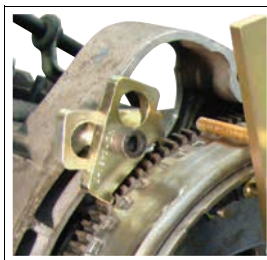
(Engine codes: G9T 600, G9T 605, G9T 606, G9T 607, G9T 642, G9T 645, G9T 700, G9T 702, G9T 703, G9T 706, G9T 707, G9T 720, G9T 722, G9T 742, G9T 743, G9T 750, G9T F722, G9U 630, G9U 632, G9U 650, G9U 720, G9U 724, G9U 726, G9U 730, G9U 750, G9U 754, G9U A720)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-703 Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-242 A	Locking Tool for Camshaft	1
KL-1280-243 B	Locking Pin, Ø 7mm	1



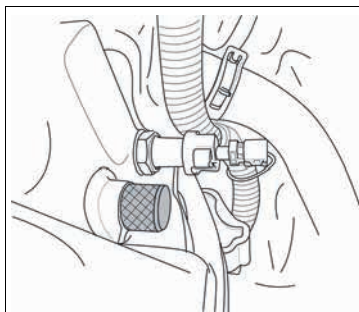
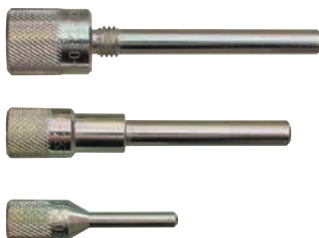
KL-0481-70

Flywheel Locking Tool (pair)

Applicable to Opel/Vauxhall 2.2 and 2.5 DTI/CDTI engines (Engine codes: G9T F722, G9T 720, G9T 750, G9U A720, G9U 724, G9U 726, G9U 750, G9U 754) and Suzuki 1.3 DDiS engines (Engine codes: D13A, Z13DT, Z13DTJ).

Designed to be used for locking the flywheel with the gearbox removed. Universal range of application.

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KL-1280-701

Locking Tool Set, Renault

Applicable to Dacia, Nissan, Opel/Vauxhall, Renault, Suzuki and Mercedes 1.5 and 2.8 litre Diesel engines as fitted to: Renault Clio II / III, Fluence, Kangoo I / II, Laguna III, Logan, Mascott, Master II / Propulsion / RWD, Megane II / III, Modus I / II, Scenic I / II, Twingo II; Opel/Vauxhall Movano-A; Dacia Duster, Logan / MCV / Pick-up / Van; Nissan Cube, Juke, Kubistar, Micra, Note, NV200, Qashqai, Tiida; Suzuki Jimny; Mercedes A-Class, B-Class, Citan, CLA.

(Engine codes: K9K, K9K262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 838, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898; S9W 206, S9W 208, S9W 212, S9W 700, S9W 702, 607.951)

Designed for the locking/positioning of engine shafts such as camshaft, crankshaft, injection pump and flywheel.

An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-701 Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1

KL-0482-47 KA

Locking Tool Set, Opel/Vauxhall

Universally applicable to Alfa Romeo, Fiat, Lancia, Opel/Vauxhall and Suzuki petrol and Diesel engines as found in Opel/Vauxhall Agila, Astra, Barina, Combo-C, Corsa-C / -D, Frontera-B, Insignia, Meriva-A / -B, Omega-B, Signum, Tigra, Vectra-C, Zafira-A / -B; Saab 9.3, 9.5; Suzuki Ignis, Splash, Swift, Wagon R+; Subaru Justy; Alfa Mito; Fiat 500, Doblo, Fiorino, Idea, Linea, Panda, Punto, Qubo, Strada; Lancia Musa, Ypsilon; Ford Ka.

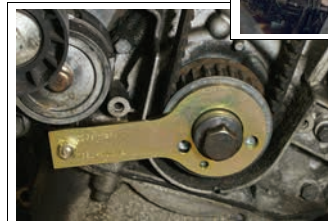
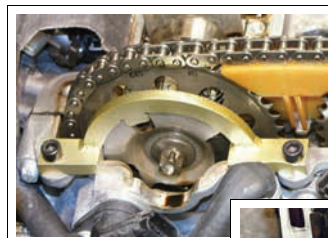
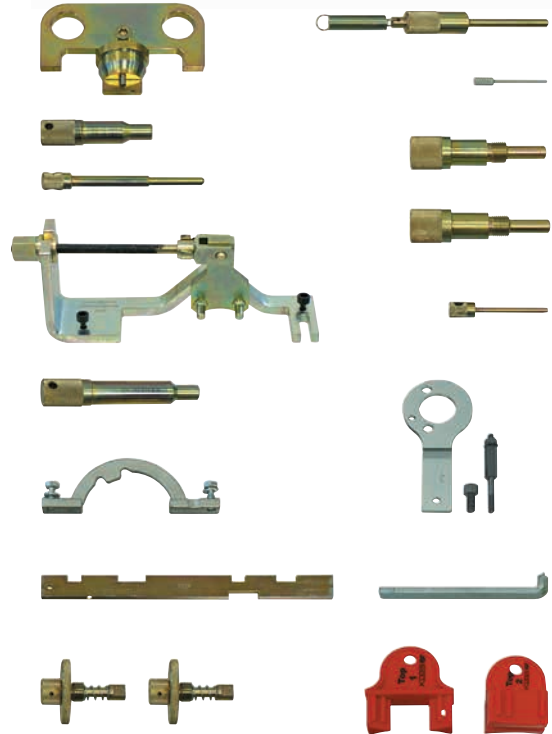
(Engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000, A13DTC, A13DTE, A13DTR, D13A, LBS/A20DTH, LBX/A20DTJ, LBY/A20DTR, LCD/A20DTC, LDV/A13DTC, LSF/A13DTE, Y16XE, Y20DTH, Y20DTL, Y22DTH, Y22DTR, Y22SE, Z10XE, Z10XEP, Z12XE, Z12XEP, Z13DT, Z13DTE, Z13DTH, Z13DTI, Z13DTJ, Z13DTR, Z14XE, Z14XEL, Z14XEP, Z16XE, Z16YNG, Z18XE, Z18XEL, Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z19DTR, Z20LEH, Z20LEL, Z20LER, Z20LET, Z22XE)

This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft, and injection pump shaft as well as the timing belt tensioner. Essential tool kit when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0482-47 KA Locking Tool Set, Opel/Vauxhall

Part No.	Description	Applications:
KL-0482-30	Locking Tool Set, Opel/Vauxhall 1.4, 1.6, 1.8, 2.0	1.4 16V (X14XE, Z14XE); 1.6 16V (C16XE, X16XE, Z16XE, X16XEL, Z16YNG); 1.8 16V (X18XE, Z18XE, Z18XEL); 2.0 16V (X20XEV, X20XER, Z20LER, Z20LEH) and 2.2 16V (X22SE, Y22SE, Y22XE, Z22XE) Opel/Vauxhall TwinCam petrol engines.
KL-0482-411 A	Setting Gauge for Camshaft	Opel/Vauxhall 2.0 and 2.2 Ecotec Diesel engines (X20DTL, X20DTH, Y20DTH, X22DTH) e.g. Opel/Vauxhall Astra, Astra Caravan, Zafira, Vectra, Omega, Sintra and Frontera.
KL-0482-412 A	Locking Pin for Crankshaft	Applications as KL-0482-411 A
KL-0482-413 A	Locking Pin for Injection Pump	Applications as KL-0482-411 A
KL-0482-414 B	Adjustment Tool for Camshaft Sprocket	Applications as KL-0482-411 A
KL-0482-432 A	Locking Pin for Crankshaft	Opel/Vauxhall TwinCam 1.0 12V; 1.2 and 1.4 16V petrol engines (X10XE, Z10XE, X10XEP, X12XE, Z12XE and Z14XEP e.g. Corsa, Agila, Astra and Meriva etc.
KL-0482-433 A	Setting Gauge for Camshaft Pulse Generator	Applications as KL-0482-432 A
KL-0482-450 A	Locking Tool for Camshaft (2 pieces)	Opel/Vauxhall 1.3 CDTi Diesel engines (Z13DT) e.g. Corsa etc.
KL-0482-451 A	Locking Pin for Crankshaft Ø 6mm	Applications as KL-0482-450 A
KL-0482-461 A	Locking Pin for Camshaft (2 pieces)	Opel/Vauxhall 1.9 CDTi Diesel engines (Z19DT, Z19DTH) e.g. Opel/Vauxhall Astra H, Vectra C, Signum, Zafira B etc.
KL-0482-462 A	Locking Pin, Ø 4mm	Applications as KL-0482-461 A
KL-0680-15 A	Setting Gauge for Camshafts	Applications as KL-0482-432 A
KL-1682-202 A	Locking Tool for Crankshafts, 1.9 JTD/2.4 JTD	Applications as KL-0482-461 A
KL-0180-3024	Retaining Pin, Ø 2.4mm	Designed to lock the automatic timing belt tensioner when replacing timing belts.
KL-0481-71 A	Locking Tool for Flywheel	Opel/Vauxhall 1.4 and 1.6 Eco-Tec 16 V; 1.2 - 1.6 OHC (with aluminium oil sump) and 1.8 16V (X18E1, X18XE1).
KL-0482-4790	Plastic Storage Case	





KL-0182-1 A

(Universal)

Flywheel Locking Tool

Applicable to Renault vehicles equipped with either a 1.2, 1.5 or 1.6 litre engine such as Renault Clio II/III, Kangoo I/II, Megane III, Modus I/II, Twingo II.
(Engine codes: D4F, D4Ft, K9K, K4M)

Designed to lock the flywheel with the gearbox removed.
Universal range of application.



KL-0481-71 A

Flywheel Locking Tool, Opel/Vauxhall

Applicable to the following Opel/Vauxhall engines: 1.4 and 1.6 Eco-Tec 16V; 1.2-1.6 OHC (with aluminium oil sump) and 1.8 16V; 1.9 DI /DTI, 2.0 and 2.5 CDTi.
(Engine codes: A16LER, F4R 720/722, F4R 820, F9Q 760, F9Q 762, G9U 630, G9U 632, G9U 650, LGE/A16XNT, X18E1, X18XE1, Y16XE, Z14XE, Z16LER, Z16LET, Z16SE, Z16YNG, Z16XE, Z16XE1, Z16XEP, Z18XE, Z18XEL)

This tool is used for locking the flywheel.

KL-0484-11 A

V-Belt Tensioner Tool, Opel/Vauxhall 1.0, 1.2, 1.4, Torx® E18/E14

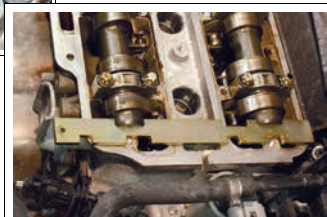
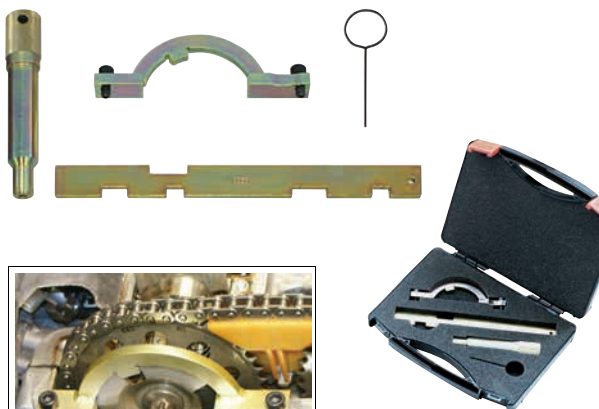
Applicable to Opel/Vauxhall TwinCam (DOHC) 1.0 12V, 1.2 and 1.4 16V petrol engines as found in Corsa, Agila, Astra and Meriva etc.
(X10XE, Z10XE, Z10XEP, X12XE, Z12XE und Z14XEP)

When removing the auxiliary belt, it is necessary to set the belt tensioner to zero position using the **KL-0484-110 A** tensioner spanner, and then lock it in place by means of locking pin **KL-0484-111 A**.

Scope of Delivery: KL-0484-11 A V-Belt Tensioner Tool

Part No.	Description	Qty
KL-0484-110 A	V-Belt Tensioner Spanner, Torx® E18/E14	1
KL-0484-111 A	Locking Pin, Ø 3.9mm	1

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KL-0482-43 KA

Locking Tool Set, Opel/Vauxhall 1.0 12V, 1.2 16V, 1.4 16V

Application: Opel/Vauxhall 1.0 12V as well as 1.2 and 1.4 16V TwinCam (DOHC) petrol engines; as fitted to Opel/Vauxhall Corsa C, Corsa D, Astra G, Astra H, Agila A, Combo C, Meriva A, Tigra B and Suzuki Wagon R+ etc.
(Engine codes: X10XE, Z10XE, Z10XEP, X12XE, Z12XE, Z12XEP, Z14XEL, Z14XEP)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft, as well as for locking the timing chain tensioner.

An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery: KL-0482-43 KA Locking Tool Set

Part No.	Description	Qty
KL-0482-432 A	Locking Pin for Crankshaft	1
KL-0482-433 A	Setting Gauge for Camshaft Pulse Generator	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0482-4390 A	Storage Case with Insert	1

KL-0482-751 KA

Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall 1.0, 1.2 and 1.4 litre petrol engines as found in Astra-J, Corsa-D, Insignia, Meriva-B, Zafira-C.

(Engine codes: A10XEP, A12XEL, A12XER, A14NEI, A14NEL, A14NET, A14XEL, A14XER, LDD, LUH, LUJ)

Designed for the locking/positioning of camshafts, crankshaft, and timing chain tensioner. The kit also includes a tool to lock the position sensor disc. An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery: KL-0482-751 KA Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-7510	Locking Tool for Camshaft	1
KL-0482-7513	Locking Tool for Camshaft	1
KL-0482-432 A	Locking Pin for Crankshaft	1
KL-0680-15 A	Setting Gauge for Camshaft	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



KL-0482-751 K

Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall 1.0, 1.2 and 1.4 litre petrol engines as found in Astra-J, Corsa-D, Insignia, Meriva-B, Zafira-C.

(Engine codes: A12XEL, A12XER, A14NEI, A14NEL, A14NET, A14XEL, A14XER, LDD, LUH, LUJ)

The tool set is designed to be used for the locking/positioning of the timing chain tensioner and engine shafts such as camshafts and crankshaft when changing a timing chain or during an engine repair.

Scope of Delivery: KL-0482-751 K Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-7510	Locking Tool for Camshaft	1
KL-0482-432 A	Locking Pin for Crankshaft	1
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



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KL-0482-32 K

Locking Tool Set, Opel/Vauxhall

Applicable to the following Opel/Vauxhall TwinCam petrol engines: 1.4 16V (X14XE, Z14XE), 1.6 16V (C16XE, X16XE, Y16XE, Z16XE, X16XEL, Z16YNG), 1.8 16V (X18XE, Z18XE, Z18XEL), 2.0 16V (X20XEV, X20XER, Z20LEH, Z20LEL, Z20LER, Z20LET) and 2.2 16V (X22SE, Y22SE, Y22XE, Z22XE) Opel/Vauxhall TwinCam petrol engines.

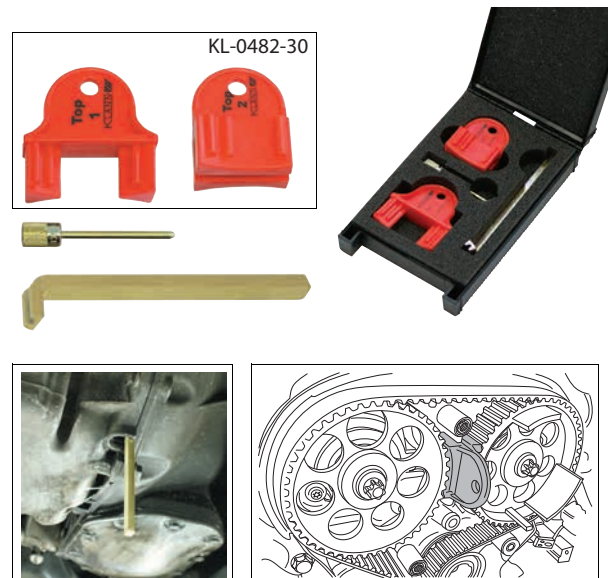
This tool set is designed for the locking/positioning of camshafts, and for the locking of the crankshaft. It also includes a tool to fix the V-ribbed belt tensioner pulley. Indispensable tool kit when replacing a timing belt or performing an engine repair.

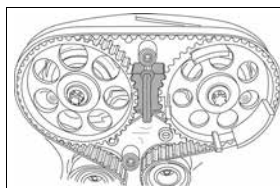
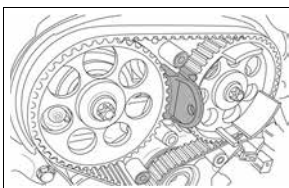
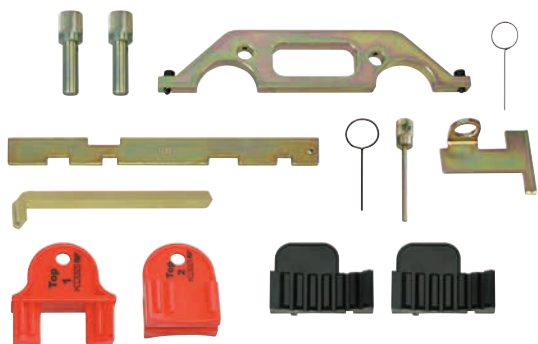
Scope of Delivery: KL-0482-32 K Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0481-71 A	Flywheel Locking Tool, Opel/Vauxhall	1
KL-0482-30	Locking Tool Set, Opel/Vauxhall 1.4, 1.6, 1.8, 2.0, 2.2	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-0482-3290	Plastic Storage Case	1

Scope of Delivery: KL-0482-30 Locking Tool Set

Part No.	Description	Suitable for
KL-0482-301	Locking Tool for Camshafts	Opel/Vauxhall 1.8 16V, 2.0 16V, 2.2 16V
KL-0482-302	Locking Tool for Camshafts	Opel/Vauxhall 1.4 16V, 1.6 16V





KL-0482-33 KA

Locking Tool Set,

Opel/Vauxhall 1.4, 1.6, 1.8, 2.0 and 2.2

Applicable to the Opel/Vauxhall TwinCam (DOHC) petrol engines:

1.4 16V (G14D, X14XE, Z14XE), 1.6 16V (A16LEL, A16LER, A16LET, A16XER, A16XNT, LDE/A16XER, LDE/F16D4, LED, LGE/A16XNT, LLU/A16LET, LXV/F16D4, Y16XE, Z16LEL, Z16LER, Z16LET, Z16YNG, Z16XE, Z16XE1, Z16XEP, Z16XER, Z16XNT, 192B3.000/Z16XEP), 1.8 16V (A18XER, F18D, Z18XE, Z18XEL, Z18XER, 2HO/A18XEL, 2HO/A18XER, 2HO/Z18XER), 2.0 16V (X20XER, X20XEV, Z20LEH, Z20LEL, Z20LER, Z20LET) and 2.2 16V (X22SE, Y22SE, Z22SE, Y22XE, Z22XE, Z22YH); as installed in Opel/Vauxhall: Corsa C, Astra G, Vectra B, Vectra C, Meriva, Zafira A, Zafira B, Combo C, Corsa D, Astra H, Signum, Tigra B, Zafira, Speedster, Omega B, Sintra A, Frontera B, Alfa: 159, Chevrolet: Aveo, Cruze, Fiat: Croma.

Designed for the locking/positioning and checking of engine shafts such as camshaft and crankshaft. The set also includes tools to lock/position the timing belt tensioner. An indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0482-33 KA Locking Tool Set, Opel/Vauxhall 1.4, 1.6, 1.8, 2.0 and 2.2

Part No.	Description	Qty
KL-0482-331	Locking Tool Set, Opel/Vauxhall 1.6	1
KL-0482-332	Flywheel Holding Tool	1
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-0481-71 A	Flywheel Locking Tool, Opel/Vauxhall	1
KL-0482-301	Locking Tool for Camshafts, Opel/Vauxhall 1.8, 2.0 and 2.2	1
KL-0482-302	Locking Tool for Camshafts, Opel/Vauxhall 1.4 and 1.6	1
KL-0482-440 A	Locking Tool Set, Opel/Vauxhall 2.2 16V	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-0482-333	Setting Gauge for Camshafts	1
KL-0482-3390	Plastic Storage Case	1

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KL-0482-34 KA

Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall 1.6, 1.8; Chevrolet 1.4, 1.6, 1.8, as well as Saab and Fiat 1.6 TwinCam petrol engines.

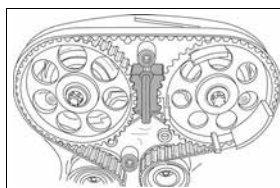
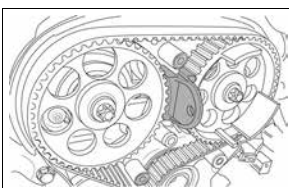
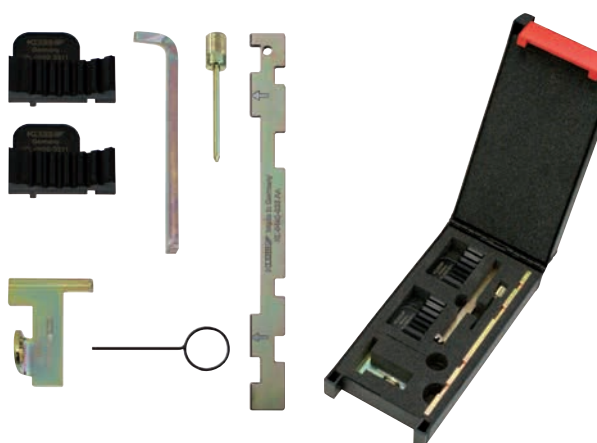
(Engine codes: A16LEL, A16LER, A16XER, A16XNT, A18XER, Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER, Z16XNT, Z18XER, LED, F18D, G14D, LDE/A16XER, LDE/F16D4, LGE/A16XNT, LLU/A16LET, LXV/F16D4, 2HO/A18XEL, 2HO/A18XER, 2HO/Z18XER, 192.B3.000)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft. Also includes a tool to lock the timing belt tensioner. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0482-34 KA Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-331	Locking Tool Set, Opel/Vauxhall 1.6	1
KL-0482-332	Locking Device for Flywheel	1
KL-0482-333 A	Setting Gauge for Camshafts	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-0481-71 A	Locking Tool for Flywheel	1
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-0482-3490	Plastic Storage Case	1



KL-0482-331

Locking Tool Set, Opel/Vauxhall 1.6

Applicable to Opel/Vauxhall (Chevrolet/Saab/Fiat) 1.4, 1.6, 1.8 litre TwinCam petrol engines. (Engine codes: A16LEL, A16LER, A16LET, A16XER, A16XNT, A18XER, F18D, G14D, LDE/A16XER, LDE/F16D4, LED, LGE/A16XNT, LLU/A16LET, LXV/F16D4, Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER, Z16XNT, Z18XER, 192B3.000 (Z16XEP), 2HO/A18XEL, 2HO/A18XER, 2HO/Z18XER); as installed in Astra-G, Astra-H, Corsa-C, Corsa-D, Insignia, Meriva, Signum, Tigra-B Roadster, Vectra-B, Vectra-C, Zafira-A, Zafira-B etc.

This tool set is designed to lock two camshaft sprockets to one another, so as to prevent the camshaft from turning while changing the timing belt



KL-0482-35

Locking Tool Set, Opel/Vauxhall

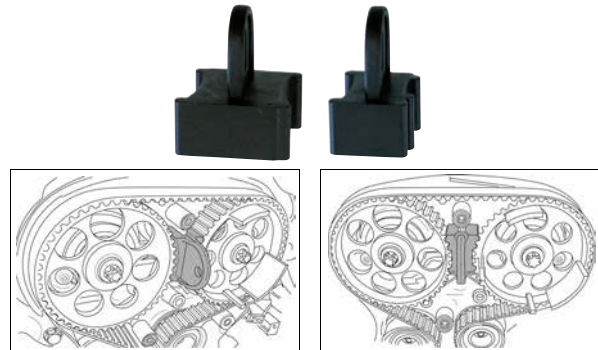
Applicable to Opel/Vauxhall 1.8 16V and 2.0 16V petrol engines as installed in Astra, Cavalier, Calibra, Vectra, Omega.

Indispensable tool set for the locking of camshafts/camshaft sprockets.

Scope of Delivery:

KL-0482-35 Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-0482-313 A	Locking Tool for Camshafts, 1.8 16V and 2.0 16V	1
KL-0482-314 A	Locking Tool for Camshafts, 2.0 16V	1



KL-1280-23 KB

Locking Tool Set for Timing Belt, Renault 1.4, 1.6, 1.8, 2.0 16V and 1.5 dCi

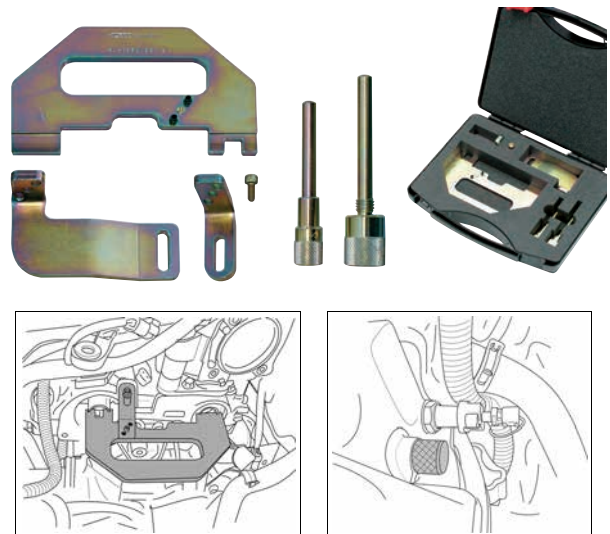
Applicable to Renault 1.4, 1.6 16V (K4J / K4M [98-]), 1.8, 2.0 16V (F4P / F4Rt / F4R [98-]) TwinCam petrol engines, and 1.5 dCi (K9K) Diesel engines; as installed in Renault Clio, Clio Sport, Modus, Megane / Scenic, Kangoo, Espace, Laguna; Nissan Micra, Almera, Kubistar, Cube, Juke, Note, NV200, Qashqai and Tiida; Dacia 1.5 Duster and Logan; Opel/Vauxhall Vivaro; Suzuki 1.5 Jimny.

Tool set for the locking/positioning of engine shafts such as camshafts and crankshaft; required when changing a timing belt or during an engine repair.

Scope of Delivery:

KL-1280-23 KB Locking Tool Set for Timing Belt

Part No.	Description	Qty
KL-1280-231 B	Setting Gauge for Camshafts	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-2390 B	Plastic Storage Case	1



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KL-1280-237

Installation Tool Set, Renault

Suitable for use on Renault 1.4, 1.6, 1.8 and 2.0 16V TwinCam petrol engines as found in Renault Clio, Avantage, Laguna, Megane, Modus, Scenic, Traffic, Twingo, Vel Satis, Kangoo and Espace; Dacia Duster and Logan; Nissan Primastar; Opel/Vauxhall Vivaro. (Engine codes: K4J, K4M, F4P, F4R, F4Rt, F5R).

These tools allow for the quick and easy installation of camshaft plugs. They are required when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-237 Installation Tool Set, Renault

Part No.	Description	Qty
KL-1280-2371	Installation Tool, Ø 43mm	1
KL-1280-2372	Installation Tool, Ø 57.5mm	1





KL-0482-44 KA

Locking Tool Set, Opel/Vauxhall 2.2 16V

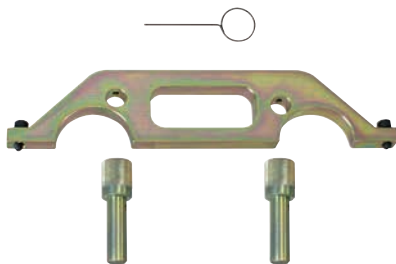
Applicable to Opel/Vauxhall 2.2 16V TwinCam (DOHC) petrol engines (Z22SE, Z22YH, 194A1.000) as installed in Astra, Signum, Speedster, Vectra and Zafira etc.; Fiat Croma.

Designed for the locking/positioning of camshafts, timing chain tensioners, and water pump pulleys. The kit also includes a tool to hold the crankshaft pulley in position. An indispensable tool kit when performing an engine repair, for example, when changing a timing chain or when removing/installing a water pump.

Scope of Delivery:

KL-0482-44 KA Locking Tool Set, Opel/Vauxhall 2.2 16V

Part No.	Description	Qty
KL-0482-442 A	Locking Tool for Water Pump, Opel/Vauxhall 2.2 16V	1
KL-0184-041	Reaction Wrench, Opel/Vauxhall	1
KL-0482-440 A	Locking Tool Set, Opel/Vauxhall 2.2 16V	1
KL-0482-4090	Plastic Storage Case	1



KL-0482-440 A

Locking Tool Set, Opel/Vauxhall 2.2 16V

Applicable to Opel/Vauxhall 2.2 16V TwinCam (DOHC) petrol engines (Z22SE, Z22YH, 194A1.000) as found in Astra, Signum, Speedster, Vectra and Zafira etc.; Fiat Croma.

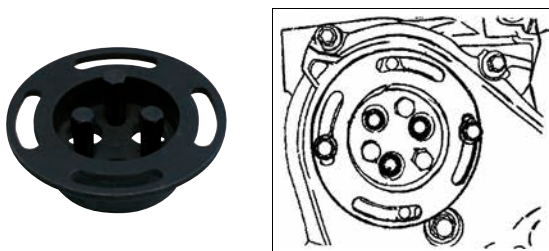
Designed for the locking/positioning of the camshafts and timing chain tensioner during an engine repair.

Scope of Delivery:

KL-0482-440 A Locking Tool Set, Opel/Vauxhall 2.2 16V

Part No.	Description	Qty
KL-0482-4401 A	Locking Tool for Camshafts, Opel/Vauxhall 2.2 16V	1
KL-0180-3012	Retaining Pin, Ø 1.2mm	1

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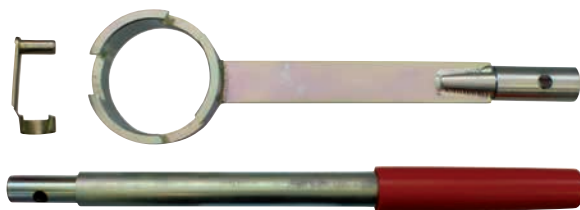


KL-0482-442 A

Locking Tool for Water Pump, Opel/Vauxhall 2.2 16V

Applicable to Opel/Vauxhall 2.2 16V TwinCam (DOHC) petrol engines (Z22SE) as found in Astra, Signum, Speedster, Vectra and Zafira etc.

When removing/installing the water pump, it is necessary to lock the water pump pulley by means of tool KL-0482-442 A.



KL-0184-041

Reaction Wrench, Opel/Vauxhall

Applicable to Opel/Vauxhall 2.2 16V TwinCam (DOHC) petrol engines; as fitted to Opel/Vauxhall Astra-G, Astra-H, Signum, Vectra-B, Vectra-C, Speedster, Zafira-A, Zafira-B; Fiat Croma. (Engine codes: Z22SE, Z22YH, 194A1.000); Alfa 159 (939) 2.2 JTS (Engine code: MKB 939 A5.000)

This tool is designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

Scope of Delivery:

KL-0184-041 Reaction Wrench, Opel/Vauxhall

Part No.	Description	Qty
KL-0184-0410	Reaction Wrench (Base Tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1

Technical Data:

Length of assembled tool:	694mm
Length of extension tube with protective handle:	403mm
Length of base tool:	341mm

KL-0482-40 K

Locking Tool Set, Opel/Vauxhall V6 engine

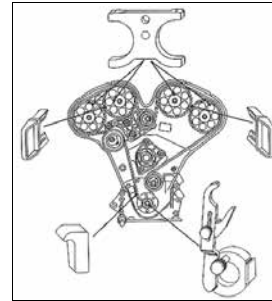
Applicable to Opel/Vauxhall 2.5, 2.6, 3.0 and 3.2 V6 petrol engines.
(Engine codes: C25XE, X25XE, Y26SE, X30XE, Y32SE, Z23SE, Z32SE until 2006)
Saab (B308E)

The KL-0482-40 K locking tool set is designed for the Opel/Vauxhall V6 engines and contains all the tools required for locking the crankshaft drive and camshaft sprockets during service work; for example for the removal, replacement/installation of the timing belt on Ecotec V6 multi-valve engines. This tool set is indispensable for the accurate positioning of the camshaft sprockets relative to the TDC (top dead centre) position of the crankshaft while installing a timing belt.

Scope of Delivery:

KL-0482-40 K Locking Tool Set, Opel/Vauxhall V6 engine

Part No.	Description	Qty
KL-0482-401	Locking Tool for Crankshaft, Opel/Vauxhall V6	1
KL-0482-402	Setting Gauge for Camshaft, Opel/Vauxhall V6	1
KL-0482-403	Holding Tool for Timing Belt, Opel/Vauxhall V6	1
KL-0482-404	Locking Tool for Camshafts (red), Opel/Vauxhall V6	1
KL-0482-405	Locking Tool for Camshafts (green), Opel/Vauxhall V6	1
KL-0482-4090	Plastic Storage Case with Insert	1



KL-0482-400

Locking Tool Set, Opel/Vauxhall V6

Applicable to Opel/Vauxhall V6 engines (Engine codes: X25XE, X26SE, X30XE, Y32SE), Saab 3.0 litre engine (Engine code: B308E).

This tool set is designed to lock two camshaft sprockets to one another, so as to prevent the camshaft from turning while changing the timing belt.

Suitable for:

KL-0482-400 Locking Tool Set, Opel/Vauxhall V6

Part No.	Description	Qty
KL-0482-404	Locking Tool for Camshaft (red), Opel/Vauxhall V6	1
KL-0482-405	Locking Tool for Camshaft (green), Opel/Vauxhall V6	1



KL-0123-2 A

Reaction Wrench, Size (waf) 36mm

Suitable for use on Ford, Opel/Vauxhall and GM vehicles.

Designed to counter-hold the viscous clutch drive shaft when removing/installing the viscous clutch.

Technical Data:

Size (waf):	36mm
Length:	280mm
Height:	11mm
Weight:	340g



KL-0483-10

Counter-Holding Tool, 39mm waf

Suitable for use on Opel/Vauxhall and GM 1.6 litre OHC engines.

(Engine codes: X16S2R, Z16SE)

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

Technical Data:

Size (waf):	39mm
Drive:	1/2"
Length:	90mm
Weight:	110g





Advantages:

- Ensures the viscous clutch is securely counter-held.
- Prevents damage to the viscous clutch.
- High-quality tool due to a special manufacturing process.

KL-0483-11

Counter-Holding Tool, 41mm waf

Suitable for use on Opel/Vauxhall and GM 1.2, 1.3, 1.4, 1.6 litre OHC engines; Daewoo 1.4, 1.5, 1.6, 1.8; Chevrolet 1.4, 1.6.

(Engine codes: A13DM/14SMS, A15DM/15SMS, A16DM, A16DMS, F14D3, F14S3, F16D3, F18N, LXT, Z16SE)

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

Technical Data:

Size (waf):	41mm
Drive:	1/2"
Length:	90mm
Weight:	110g



KL-0483-12

Counter-Holding Tool, 46mm waf

Suitable for use on Opel/Vauxhall and GM OHC engines.

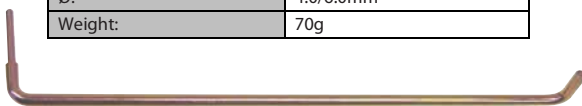
This tool is designed to turn the water pump for adjusting the tension on the drive belt.

Technical Data:

Size (waf):	46mm
Drive:	1/2"
Length:	90mm
Weight:	110g

Technical Data:

Ø:	4.0/6.0mm
Weight:	70g



KL-0484-10

Locking Tool, VW-Audi / Opel/Vauxhall

This tool is used for the locking of the automatic tensioner pulley for V-ribbed belt and timing belt on **VW-Audi** engines.

Also suitable for the automatic tensioner pulley for V-ribbed belt on **Opel/Vauxhall** vehicles that are fitted with an EcoTec engine.

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KL-1682-43 KA

Locking Tool Set, 1.3 JTD

Applicable to Fiat 1.3 16V Common Rail Diesel engines as fitted to:

- Alfa Romeo, Fiat, Lancia JTD Multi-Jet (engine codes: 169A1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 199B4.000, 223A9.000, 263A2.000, 843A2.000)

- Ford TDCi Duratorq (engine code: FD4)

- Opel/Vauxhall CDTi (engine codes: A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Y13DT, Y13DTH, Z13DT, Z13DTE, Z13DTH, Z13DTI, Z13DTJ, Z13DTR)

- Suzuki DDiS (engine codes: D13A, Z13DT, Z13DTJ)

- Subaru (engine code: Z13DT)

- Citroën, Peugeot (engine code: F13DTE5 (FHZ))

This tool set is designed to counter-hold the crankshaft while loosening or tightening the crankshaft central screw. It also includes tools to lock/position engine shafts such as camshaft and crankshaft when replacing a timing chain or during an engine repair.

Scope of Delivery:

KL-1682-43 KA Locking Tool Set, 1.3 JTD

Part No.	Description	Qty
KL-0482-450 A	Locking Tool for Camshaft (2 pieces)	1
KL-1682-434 A	Locking Pin, Ø 8mm	1
KL-0482-451 A	Locking Pin for Crankshaft, Ø 6mm	1
KL-1682-435	Counter-Holding Tool Set, Crank/Cam	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1
KL-1682-432 A	Holding Tool for Timing Chain Tensioner	1
KL-1682-4390 A	Plastic Storage Case	1



KL-1682-433

Locking Tool for Crankshaft

Applicable to Fiat 1.3 16V Common Rail Diesel engines.

Designed to lock/position the crankshaft.



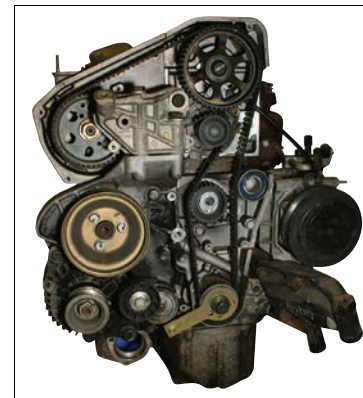
KL-0482-46 KB

Locking Tool Set, Opel/Vauxhall

Applicable to Opel/Vauxhall, Alfa Romeo, Fiat, Lancia and Suzuki 1.6, 1.9, 2.0 and 2.4 litre Diesel engines as found in: Opel/Vauxhall Astra, Astra-H, Insignia, Signum, Vectra-C, Zafira-B; Saab 9-3, 9-5; Alfa 147, 156, 159, 166, Brera, Giulietta, GT, Mito, Spider; Fiat Bravo, Croma, Doblo, Idea, Linea, Marea, Multipla, Punto, Ritmo, Sedici, Stilo, Strada; Lancia Delta, Lybra, Musa, Thesis; Suzuki SX4.

(Engine codes: 182B9.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A3.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 192A5.000, 192A8.000, 192A9.000, 192B1.000, 192B4.000, 192B5.000, 198A2.000, 198A3.000, 198A5.000, 198A6.000, 199A5.000, 223A6.000, 223A7.000, 223B1.000, 350A2.000, 350A3.000, 362.02, 371.01, 839A6.000, 841C.000, 841G.000, 841H.000, 841M.000, 841P.000, 844A1.000, 844A2.000, 844A3.000, 937A2.000, 937A3.000, 937A4.000, 937A5.000, 937A6.000, 939A1.000, 939A2.000, 939A3.000, 939A7.000, 939A8.000, 939A9.000, 939B3.000, 939B4.000, 940A3.000, 940A4.000, 940A5.000, 955A3.000, 955A4.000, A20DTC, A20DTH, A20DTJ, A20DTR, D19AA, D20AA, LBS, LBX, LBY, LCD, RHT, Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z19DTR)

Designed for the locking/positioning of camshafts, crankshaft and flywheel. The kit also includes a tool to lock the V-ribbed belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.



Scope of Delivery:

KL-0482-46 KB Locking Tool Set, Opel/Vauxhall

Part No.	Description	Qty
KL-1682-202 A	Locking Tool for Crankshaft	1
KL-0482-461 A	Locking Pin Set for Camshaft	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1682-131 A	Flywheel Holding Tool	1
KL-1682-4290 A	Plastic Storage Case	1

KL-0680-220 B

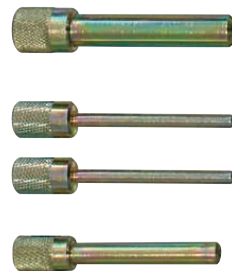
Set of Locking Pins,

Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDi; Toyota 1.0 VVT, 1.4 Di, 1.4 HDi; Volvo 1.6 D Diesel engines.

(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTED, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

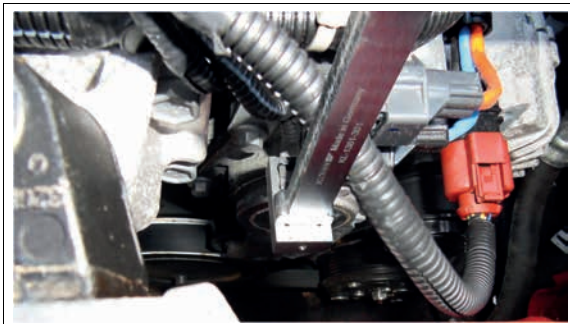
These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.



Scope of Delivery:

KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1



KL-1381-30

Tensioner Tool with Retaining Pin

Applicable to PSA (Citroën, Peugeot), Fiat and Ford 1.4 und 1.6 litre Diesel engines as found in:

Citroën Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4 II, C4 Picasso/Grand Picasso, C5 III, DS3, Berlingo III, DS4, DS3, DS4, Xsara II, Xsara Picasso and Peugeot Partner III, 206, 207, 207 CC, 308, 308 CC, 508, 3008, 5008.

(Engine codes: DV4, DV6)

Facilitates the tensioning and locking of V-ribbed belt tensioners.

This tool allows for the removal/installation of the V-ribbed belt in situ on the vehicle even in very limited space conditions.

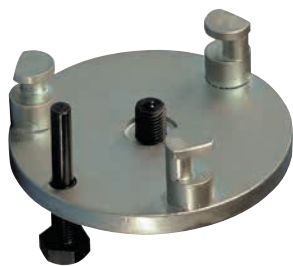
Technical Data:

Length of tension lever:	465mm
Ø of retaining pin:	4.2mm

Scope of Delivery:

KL-1381-30 Tensioner Tool with Retaining Pin

Part No.	Description	Qty
KL-1381-3021	Retaining Pin (angled), Ø 4.2mm	1
KL-1383-301	Tension Lever with Base Body	1



KL-1682-16

Injection Pump Locking Tool, Fiat 1.7 D, 1.9 D

Suitable for use on Fiat 1.7 and 1.9 litre Diesel/Turbodiesel engines with a non-adjustable camshaft timing belt sprocket; as installed in Fiat Croma 1.9 TD, Ducato 1.9 D (-94), Duna 1.7 D, Fiorino 1.7 D (-94), Punto 1.7 D / TD (93-95), Regata 1.7 D, Ritmo/Strada 1.7 D, Talento 1.9 D, Tempra 1.9 D, Tipo 1.7 D, Tipo 1.9 D / TD, Uno 1.7 D.

This tool is designed to lock/position the injection pump sprocket when replacing a timing belt. It can also be used to pull off the injection pump sprocket when removing the injection pump or during an engine repair.

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KL-1682-20 KA

Locking Tool Set for Timing Belt, Fiat 1.9 D/TD/JTD, 2.1 TD, 2.4 TD

Applicable to Fiat 1.9 D/TD/JTD, 2.4 TD/JTD and PSA 1.9 D/TD, 2.1 TD Diesel engines as installed in Fiat Brava, Bravo, Marea, Marea Weekend, Multipla, Punto, Scudo, Ulysse.

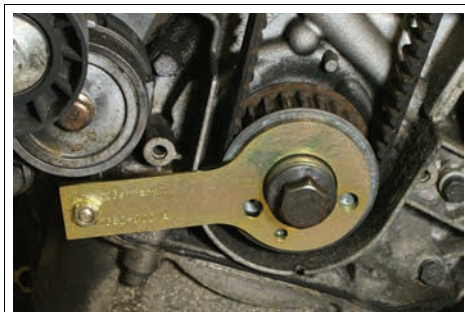
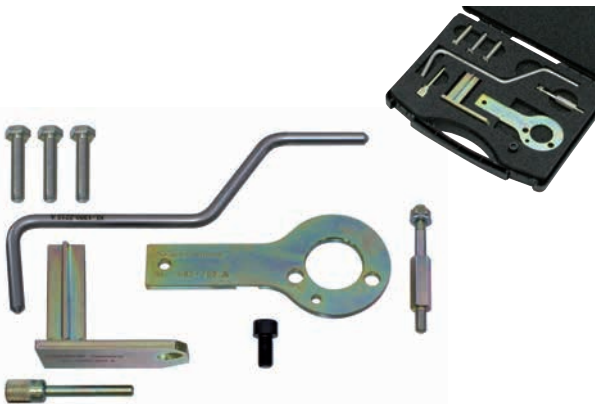
(Engine codes: 160 A7.000, 182 A7.000, 182 A8.000, 182 B4.000, 185 A2.000, 185 A6.000, 188 A2.000 und 188 A3.000)

Designed to lock/position the flywheel and engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-1682-20 KA Locking Tool Set for Timing Belt

Part No.	Description	Qty
KL-1380-2211 A	Locking Pin, Ø 6mm	1
KL-1380-2215 A	Locking Pin (angled) for Flywheel, Ø 7.7mm	1
KL-1480-18	Hex Screw, M8x40mm	3
KL-1682-201 A	Flywheel Holding Tool, 1.9 D	1
KL-1682-202 A	Locking Tool for Crankshaft 1.9 JTD/2.4 JTD	1
KL-1682-2090 A	Plastic Storage Case	1



KL-0680-701 K

Locking Tool Set, Ford, Fiat, PSA 2.2

Applicable to Ford, Fiat, Citroën and Peugeot 2.2 litre Common Rail Diesel engines. For example, fitted to: Ford Transit, Fiat Ducato, Citroën Relay/Jumper III and Peugeot Boxer III.

For locking the crankshaft and camshaft, as well as for aligning the engine front cover when installing it. The set also includes the necessary tool to remove/install crankshaft seal rings. An indispensable tool set when replacing timing chains or performing engine repairs.

Scope of Delivery: KL-0680-701 K Locking Tool Set, Ford, Fiat, PSA 2.2

Part No.	Description	Qty
KL-0680-7011	Locking Tool, Crankshaft	1
KL-0680-7012	Cap for Crankshaft	1
KL-0680-7013	Turning Tool for Injection Pump	1
KL-0680-2102 A	Locking Pin, Ø 14/10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1007	Plastic Storage Case	1



(Engine codes: 4HU (P22DTE), 4HV (P22DTE), CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

KL-1682-26 KA

Locking Tool Set, 2.3, 2.8 and 3.0 JTD

Applicable to Fiat, Citroën, Peugeot and Iveco 2.3, 2.8 and 3.0 litre Diesel engines as found in: Fiat Ducato; Peugeot Boxer; Citroën Relay, Jumper; Iveco Daily.

Designed for the locking/positioning of the injection pump shaft, camshafts and crankshaft. The kit also includes tools to lock the timing belt tensioner and to fix the timing belt during installation. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1682-26 KA Locking Tool Set, 2.3, 2.8 and 3.0 JTD

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1682-2601	Locking Tool for Flywheel	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1682-2401	Spacer Sleeve for Timing Belt	1
KL-1682-410 A	Locking Tool for Camshaft	1
KL-1682-411 A	Locking Tool for Crankshaft	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1682-2690	Plastic Storage Case	1



(Engine codes: 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, 8140.63, F1AE0481A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481D/SOFIM, F1CE0481F, F1CE0481H, F1CE3481D, F1CE3481D/SOFIM, F1CE3481DM, F1CE3481DM/SOFIM, F1CE3481E, F1CE3481E/SOFIM, F1CE3481M, F1CE3481N, F1CE 3481N/SOFIM, F30DTE)

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KL-1682-24 KB

Locking Tool Set

Applicable to Fiat, Opel/Vauxhall, Citroën, Peugeot, Iveco and Renault 2.5 and 2.8 litre Diesel engines as found in: Fiat Ducato; Opel/Vauxhall Movano; Renault Master, Mascott; Peugeot Boxer II, Citroën Relay, Jumper; Iveco Daily.

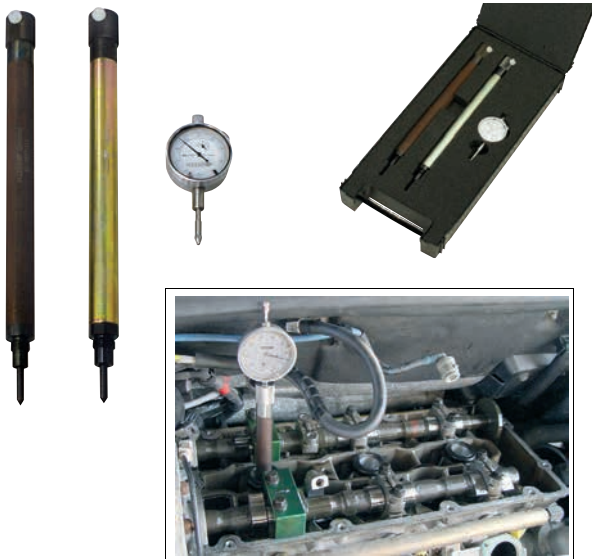
Designed for the locking/positioning of the crankshaft, injection pump shaft and flywheel. The kit also contains a tool to lock the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1682-24 KB Locking Tool Set

Part No.	Description	Qty
KL-1682-2601	Locking Tool for Flywheel	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1682-2401	Spacer Sleeve for Timing Belt	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1
KL-1280-204 A	Locking Pin, Ø 4.9/3.9mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-1682-2490	Plastic Storage Case	1



(Engine codes: 8140.43, 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, 8140.63, S8U, S8U 770, S8U 772, S9W, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702)



KL-1681-11 K

TDC Position Tool Kit,

VW-Audi/Seat/Škoda/Alfa Romeo/Fiat/Porsche

Universally applicable to vehicles with either an M12x1.25 or M14x1.25 spark plug thread; such as VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3; Seat Alhambra, Altea, Cordoba, Ibiza, Leon, Toledo; Škoda Fabia, Octavia, Roomster, Superb, Yeti; Alfa Romeo 147, 156, 166, GT, GTV, Spider; Fiat Doblo, Fiorino, Marea, Multipla, Palio, Panda, Punto, Qubo, Stilo; Lancia Lybra, Thesis. (Engine codes: 161.05, 182B6.000, 183A1.000, 185A8.000, 188A4.000, 192A2.000, 322.05, 324.05, 361.01, 362.01, 839A7.000, 841A.000, 841D.000, 841E.000, 841L.000, 932A.000, 932A2.000, 936A.000, 936A6.000, 937A1.000, AXU, BAG, BKG, BLF, BLG, BLN, BLP, BMY, BTS, BWK, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CDGA, CKMA, KFT, KFV)

This tool is necessary to determine the TDC position on No.1 cylinder.

Scope of Delivery: KL-1681-11 K TDC Position Tool Kit

Part No.	Description	Qty
KL-1681-111	Adaptor, M14x1.25, for TDC Positioning	1
KL-1681-112	Adaptor, M12x1.25, for TDC Positioning	1
KL-0128-0	Dial Gauge, Ø 40mm	1
KL-1681-1190	Plastic Storage Case	1

KL-1682-752 K

Locking Tool Set, Fiat

Applicable to Alfa Romeo, Fiat, Lancia and Chrysler 900 cm³ petrol engines as found in: Fiat 500, Panda, Punto; Alfa Mito; Lancia Ypsilon, Chrysler Ypsilon. (Engine code: 312A200)

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as for locking the timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-1682-752 K Locking Tool Set, Fiat

Part No.	Description	Qty
KL-1682-7521	Locking Tool for Camshaft	1
KL-1682-7522	Locking Tool for Tensioner	1
KL-1682-7523	Locking Tool for Flywheel	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1

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KL-1682-10 KB

Timing Belt Locking Tool Set,

Fiat 1.2 and 1.4 16 V

Applicable to Fiat and Lancia 1.2 16 V TwinCam petrol engines (Engine codes: 176B9.000, 182B2.000, 188A5.000 and 223A5.000), and Fiat, Alfa and Lancia 1.4 16V TwinCam petrol engines (Engine codes: 169A3.000, 192B2.000, 198A1.000, 198A4.000, 199A6.000, 199A8.000, 312A1.000, 312A3.000, 843A1.000 and 955A1.000) as found in Fiat New 500, Punto, Idea, Linea, Brava and Bravo.

This tool set is designed to determine the TDC position on No. 1 cylinder, to lock / position engine shafts such as camshafts and crankshaft, as well as to adjust the timing belt tensioner. It is required when replacing a timing belt or during an engine repair.

Scope of Delivery KL-1682-10 KB Timing Belt Locking Tool Set

Part No.	Description	Qty
KL-1682-101 A	TDC Position Tool (2 pieces)	1
KL-1682-102 A	Locking Tool for Camshaft (2 pieces)	1
KL-1682-103 A	Tensioner Adjustment Tool	1
KL-1682-104 A	Locking Tool for Crankshaft	1
KL-1682-105 A	Locking Tool for Camshaft	1
KL-1682-1090 B	Plastic Storage Case	1



KL-1682-25 KA

Locking Tool Set, Fiat 1.2, 1.4 8V

Applicable to Fiat/Lancia 1.2 (169A4.000, 199A4.000), 1.4 (350A1.000, 199A7.000) and Ford 1.2 (FP4) 8-valve petrol engines as found in Fiat New 500, Idea, Grande Punto, Linea, Doblo, Panda, Qubo; Lancia Musa, Ypsilon; Ford Ka.

This tool set is used for the locking/positioning of camshaft and crankshaft, as well as for adjusting the timing belt tensioner and aligning the camshaft sensor cap. Essential tools when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1682-25 KA Locking Tool Set, Fiat 1.2, 1.4 8V

Part No.	Description	Qty
KL-1682-251 A	Setting Gauge for Camshaft Sensor Cap	1
KL-1682-252 A	Holding Tool for Camshaft Sprocket	1
KL-1682-253 A	Setting Gauge for Camshaft	1
KL-1682-103 A	Tensioner Adjustment Tool	1
KL-1682-104 A	Locking Tool for Crankshaft	1
KL-1682-2590 A	Storage Case with Insert	1



KL-1682-753 K

Locking Tool Set, Fiat

Applicable to Fiat and Lancia 1.2 litre petrol engines as found in: Fiat Palio, Panda, Punto, Strada; Lancia Ypsilon. (Engine code: 188A4.000)

Designed for the locking/positioning of camshaft and crankshaft, as well as for adjusting the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1682-753 K Locking Tool Set, Fiat

Part No.	Description	Qty
KL-1682-103 A	Tensioner Adjustment Tool	1
KL-1682-104 A	Locking Tool for Crankshaft	1
KL-1682-253 A	Setting Gauge for Camshaft	1
KL-1682-3511 A	Setting Gauge for Camshaft	1
KL-1682-3512 A	Setting Gauge for Camshaft	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



KL-1682-11 KA

Locking Tool Set, Fiat 1.4 12V

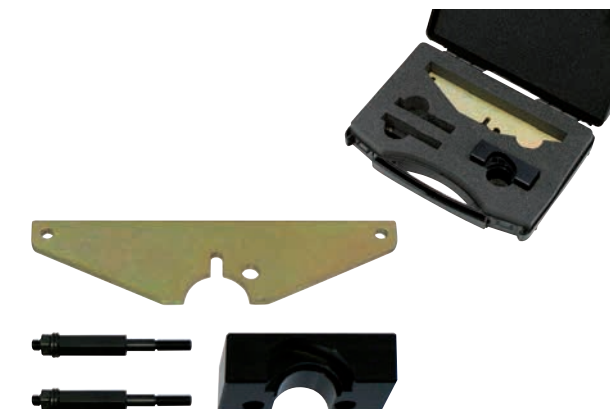
Applicable to Fiat 1.4 12V petrol engines (182 A3.000, 182 A5.000) as found in Fiat Brava, Bravo, Marea, Marea Weekend.

This tool set is used for locking/positioning engine shafts such as camshaft and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-1682-11 KA Locking Tool Set, Fiat 1.4 12V

Part No.	Description	Qty
KL-1682-311 A	Locking Tool for Camshaft	1
KL-1682-112 A	Locking Tool for Crankshaft	1
KL-1682-1190 A	Plastic Storage Case	1





KL-1682-30 KB

Locking Tool Set, Alfa/Fiat/Lancia

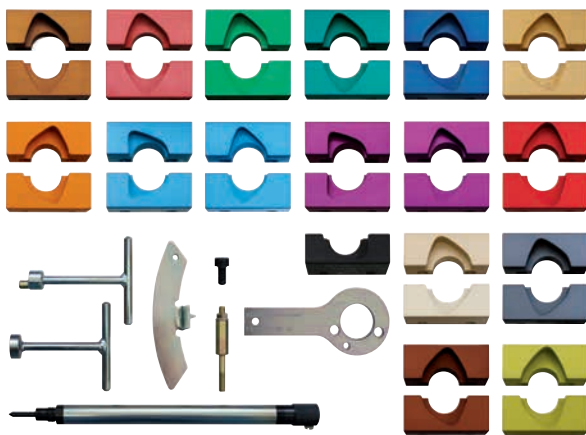
Applicable to Alfa Romeo 1.4, 1.6, 1.8, 2.0, 2.5, 3.0 and 3.2 litre, 4- and 6-cylinder petrol engines as found in: 145, 146, 147, 155, 156, 164, 166, GTA, GTV, Spider, Spider GT etc., and Fiat/Lancia 1.4, 1.6, 1.8, 2.0, 2.4-litre, 4- and 5-cylinder petrol engines as found in: Fiat Panda, Punto, Palio, Siena, Bravo, Brava, Stilo, Marea, Multipla, Barchetta, Coupé etc. Lancia Dedra, Delta, Kappa, Lybra etc.

(Engine codes: 161.02, 162.01, 321.02, 321.03, 321.04, 322.01, 322.05, 323.01, 323.10, 324.01, 324.05, 335.03, 341.03, 342.01, 343.01, 361.01, 362.01, 363.01, 372.03, 671.06, 672.04, 676.01, 175A3.000, 178B3.000, 182A1.000, 182A2.000, 182A3.000, 182A4.000, 182A5.000, 182A6.000, 182A6.000, 182B3.000, 182B6.000, 182B7.000, 183A1.000, 183A6.000, 185A8.000, 188A4.000, 188A6.000, 192A2.000, 192A4.000, 839A4.000, 839A7.000, 840A2.000, 840A4.000, 841D.000, 841E.000, 932A.000, 932A2.000, 936A.000, 936A6.000, 937A1.000, 939B1.000, 940A1.000, KFT, KfV)

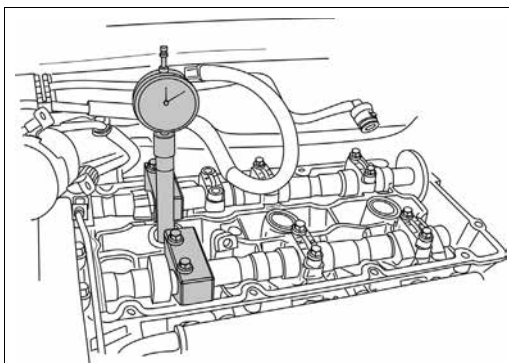
When performing repairs to cylinder heads or engines, or when replacing a timing belt, the **KL-1682-30 KB** will prove to be an indispensable tool set allowing you to determine the TDC position (power stroke) on No. 1 cylinder, lock/position the camshafts and correctly adjust the tensioner pulley.

Scope of Delivery:

KL-1682-30 KB Locking Tool Set Alfa, Fiat, Lancia



Part No.	Description	Applications:
KL-1682-301 A	Locking Tool Set for Camshaft, golden (2-piece set)	Alfa 1.4 and 1.6 4-cylinder 16V TS engines. (Engine code: AR321.01, AR335.03)
KL-1682-302 A	Locking Tool Set for Camshaft, light yellow (2-piece set)	Alfa 1.8 and 2.0 4-cylinder 16V TS engines. (Engine code: AR162.01, AR322.05, AR323.01, AR323.10, AR671.06, AR672.04)
KL-1682-303 A	Locking Tool Set for Camshaft, bronze-coloured (2-piece set)	Alfa 1.6 4-cylinder 16V TS engines. (Engine code: AR321.02, AR321.03, AR321.04, AR372.03, AR676.01)
KL-1682-304 A	Locking Tool Set for Camshaft, red (2-piece set)	Alfa 2.0 4-cylinder 16V JTS engines. (Engine code: 932A2.000, 937A1.000)
KL-1682-305 A	Locking Tool Set for Camshaft, purple (4-piece set)	Alfa 2.5 and 3.0 V6 engines with 24 valves. (Engine code: 161.02, AR324.01, AR343.01, AR361.01, AR362.01, AR342.01)
KL-1682-306 A	Locking Tool Set for Camshaft, light blue (4-piece set)	Alfa 3.2 V6 engines with 24 valves. (Engine code: 932A.000, 936A.000)
KL-1682-307 A	Locking Tool Set for Camshaft, orange (2-piece set)	Alfa 1.6 TS engines. (Engine code: 321.03, 321.04, 372.03)
KL-1682-311 A	Locking Tool for Camshaft, black (1-piece set)	Fiat/Lancia 1.4 4-cylinder 12V engines. (Engine code: 182A3.000)
KL-1682-312 A	Locking Tool Set for Camshaft, white (2-piece set)	Fiat/Lancia 1.8 4-cylinder 16V engines. (Engine code: 183A1.000)
KL-1682-313 A	Locking Tool Set for Camshaft, grey (2-piece set)	Fiat/Lancia 1.8 4-cylinder 16V engines. (Engine code: 182A2.000)
KL-1682-314 A	Locking Tool Set for Camshaft, dark blue (2-piece set)	Fiat/Lancia 1.8 4-cylinder 16V engines. (Engine code: 188A6.000, 192A4.000)
KL-1682-315 A	Locking Tool Set for Camshaft, dark green (2-piece set)	Fiat/Lancia 2.0 5-cylinder 20V engines. (Engine code: 175A3.000, 182A1.000)
KL-1682-316 A	Locking Tool Set for Camshaft, light green (2-piece set)	Fiat/Lancia 2.0 5-cylinder 20V engines. (Engine code: 175A3.000)
KL-1682-317 A	Locking Tool Set for Camshaft, light red (2-piece set)	Fiat/Lancia 2.0 5-cylinder 20V engines.
KL-1682-318 A	Locking Tool Set for Camshaft, brown (2-piece set)	Fiat/Lancia 2.4 5-cylinder 20V engines. (Engine code: 192A2.000)
KL-1681-111	Adaptor M14x1.25 for TDC Positioning	Fiat/Lancia 1.6 and 2.0 4- and 5-cylinder 16V/20V engines. (Engine code: 175A3.000, 182A1.000, 182A2.000, 183A1.000, 192A2.000, 932A2.000, 937A1.000)
KL-1682-131 A	Flywheel Holding Tool	Fiat/Lancia 1.8 4-cylinder 16V engines (Engine code: 182A2.000, 192A4.000) and Alfa 2.0 JTS engines (Engine code: 932A2.000, 937A1.000).
KL-1682-202 A	Locking Tool for Crankshafts	Fiat/Lancia 1.8 4-cylinder 16V engines. (Engine code: 188A6.000, 192A4.000)
KL-1682-213 A	Adjustment Tool for Tensioner Pulley	Alfa 1.6, 1.8 and 2.0 4-cylinder 16V engines (Engine code: AR162.01, AR321.03, AR321.04, AR322.01, AR322.05, AR323.01, AR323.10, AR335.03, AR372.03, AR671.06, AR672.04, AR676.01, 932A2.000, 937A1.000) and for Fiat/Lancia 1.8 4-cylinder 16V engines (Engine code: 182A2.000, 183A1.000, 188A6.000, 192A4.000).
KL-1682-214 A	Adjustment Tool for Tensioner Pulley (Balance Shafts)	Alfa 2.0 4-cylinder 16V engines. (Engine code: AR162.01, AR323.01, AR323.10, AR672.04, 932A2.000, 937A1.000)
KL-1682-3090 A	Plastic Storage Case	



KL-1682-332 K Locking Tool Set, Alfa

Applicable to Alfa Romeo 1.4, 1.6, 1.8 and 2.0 petrol engines as found in: Alfa 145, 146, 147, 155, 156, 166, GT, GTV, Spider.

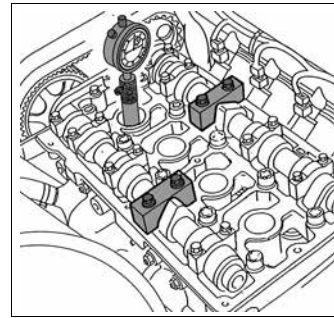
(Engine codes: 162.01, 321.02, 321.03, 321.04, 322.01, 322.05, 323.01, 323.1, 335.03, 341.03, 363.01, 372.03, 671.06, 672.04, 676.01)

Designed for the locking/positioning of camshafts, crankshaft, and timing belt tensioner. The kit also contains a tool to determine the TDC position. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1682-332 K Locking Tool Set, Alfa

Part No.	Description	Qty
KL-1682-301 A	Locking Tool Set (golden) for Camshaft	1
KL-1682-302 A	Locking Tool Set (light yellow) for Camshaft	1
KL-1682-303 A	Locking Tool Set (bronze) for Camshaft	1
KL-1682-307 A	Locking Tool Set (orange) for Camshaft	1
KL-1682-213 A	Adjustment Tool for Tensioner Pulley	1
KL-1682-214 A	Adjustment Tool for Tensioner Pulley	1
KL-1681-111	Adaptor M14x1.25 for TDC Positioning	1
KL-1682-3090 A	Plastic Storage Case	1



KL-1682-751 K Locking Tool Set, Fiat

Applicable to Alfa Romeo and Fiat 1.4 litre petrol engines as found in: Alfa Giulietta, Mito; Fiat Bravo, Punto.

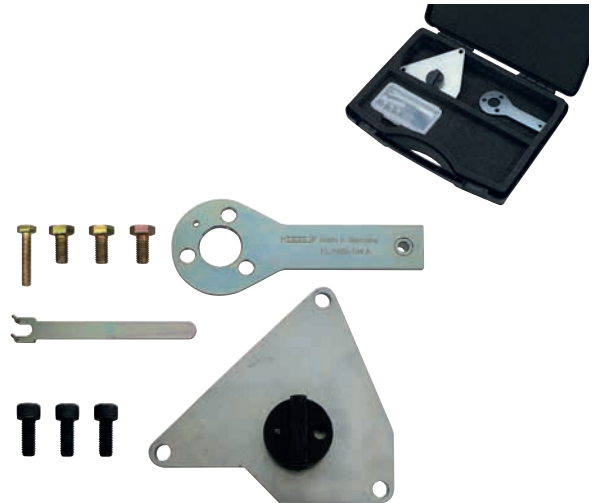
(Engine codes: 198A7.000, 940A2.000, 955A2.000, 955A6.000, 955A7.000, 955A8.000)

Designed for the locking/positioning of camshaft and crankshaft, as well as for adjusting the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1682-751 K Locking Tool Set, Fiat

Part No.	Description	Qty
KL-1682-7511	Locking Tool for Camshaft	1
KL-1682-103 A	Tensioner Adjustment Tool	1
KL-1682-104 A	Locking Tool for Crankshaft	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



KL-1682-12 KA Locking Tool Set, Fiat

Applicable to Fiat, Lancia, Suzuki 1.6 litre petrol engines as found in Fiat Doblo, Mare, Multipla, Palio, Sedici, Stilo; Lancia Lybra; Suzuki Grand Vitara, Liana, Swift, SX4.

(Engine codes: 182B6.000, 192B3.000, M16A, M16A VVT, Z16XEP)

Designed for the locking/positioning of camshafts and crankshaft, as well as for adjusting the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1682-12 KA Locking Tool Set, Fiat

Part No.	Description	Qty
KL-1682-121 A	Tensioner Pulley Adjustment Tool	1
KL-1682-122 A	Flywheel Holding Tool	1
KL-1682-123 A	Setting Gauge for Camshaft	1
KL-4990-2002	Plastic Box	1
KL-4990-1103	Plastic Storage Case	1





KL-1682-331 K Locking Tool Set, Alfa

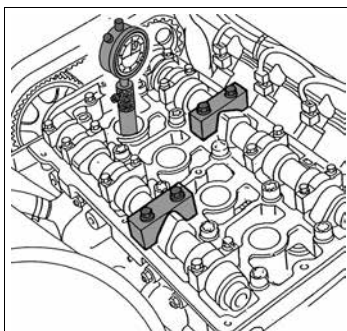
Applicable to Alfa Romeo, Lancia and Fiat 1.8 and 2.0 litre petrol engines as found in: Fiat Barchetta, Punto, Stilo; Alfa 156, GT, GTV, Spider; Lancia Lybra. (Engine codes: 183A6.000, 185A8.000, 188A6.000, 192A4.000, 839A4.000, 839A7.000, 932A2.000, 937A1.000)

Designed for the locking/positioning of camshafts, crankshaft, timing belt tensioner and flywheel. Kit also contains a tool to determine the TDC position. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1682-331 K Locking Tool Set, Alfa

Part No.	Description	Qty
KL-1682-131 A	Flywheel Holding Tool	1
KL-1682-202 A	Locking Tool for Crankshaft	1
KL-1682-213 A	Adjustment Tool for Tensioner Pulley	1
KL-1682-214 A	Adjustment Tool for Tensioner Pulley	1
KL-1682-304 A	Locking Tool Set (red) for Camshaft	1
KL-1682-314 A	Locking Tool Set (dark blue) for Camshaft]	1
KL-1682-315 A	Locking Tool Set (dark green) for Camshaft	1
KL-1681-111	Adaptor M14x1.25 for TDC Positioning	1
KL-1682-3090	Plastic Storage Case	1



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KL-1682-23 KA Locking Tool Set, Alfa

Applicable to Alfa Romeo 2.5, 3.0 and 3.2 litre petrol engines as found in: Alfa Romeo 147, 156, 166, GT, GTV, Spider. (Engine codes: 161.02, 161.05, 324.01, 324.05, 342.01, 343.01, 361.01, 362.01, 932A.000, 936A.000, 936A6.000)

Designed for the locking/positioning of camshafts as well as for adjusting the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1682-23 KA Locking Tool Set, Alfa

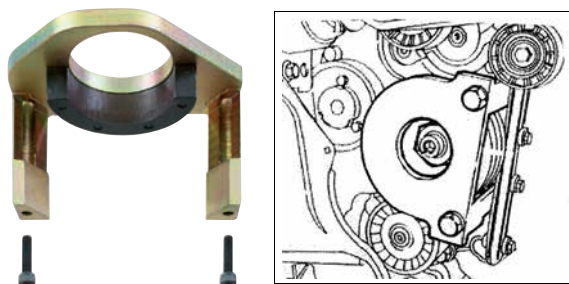
Part No.	Description	Qty
KL-1682-305 A	Locking Tool Set for Camshaft (purple)	1
KL-1682-306 A	Locking Tool Set for Camshaft (light blue)	1
KL-1682-222 A	Tensioning Tool	1
KL-4990-2002	Plastic Storage Box	1
KL-4990-1103	Plastic Storage Case	1



KL-1682-235 Counter-Holding Tool for Crankshaft

Suitable for use on Alfa Romeo 3.2 V6 24V TwinCam petrol engines as found in 147, 156, 166, Spider, GT, GTV. (Engine codes: 932A.000 and 936A.000)

This tool is designed to counter-hold the crankshaft (crankshaft pulley) while loosening/tightening the crankshaft central screw. It is required when replacing a timing belt and for engine repairs.



KL-0680-220 B

Set of Locking Pins,

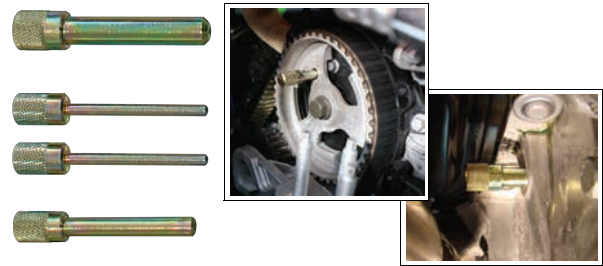
Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDS; Toyota 1.0 VVT, 1.4 Di, 1.4 HDI; Volvo 1.6 D Diesel engines.

These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery: KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1



(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTEd, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

KL-1381-30

Tensioner Tool with Retaining Pin

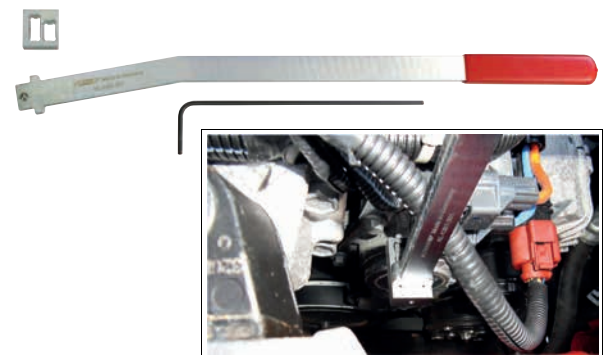
Applicable to PSA (Citroën, Peugeot), Fiat and Ford, 1.4 and 1.6 litre Diesel engines as found in: Citroën Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4 II, C4 Picasso/Grand Picasso, C5 III, DS3, Berlingo III, DS4, DS3, DS4, Xsara II, Xsara Picasso and Peugeot Partner III, 206, 207, 207 CC, 308, 308 CC, 508, 3008, 5008. (Engine codes: DV4, DV6)

Facilitates the tensioning and locking of V-ribbed belt tensioners.

This tool allows for the removal/installation of the V-ribbed belt in situ on the vehicle even in very limited space conditions.

Scope of Delivery: KL-1381-30 Tensioner Tool with Retaining Pin

Part No.	Description	Qty
KL-1381-3021	Retaining Pin (angled), Ø 4.2mm	1
KL-1383-301	Tension Lever with Base Body	1



Technical Data:

Length of tension lever:	465mm
Ø of retaining pin:	4.2mm

KL-0182-17 A

Flywheel Locking Pin

Suitable for use on Citroën, Peugeot (TUD5) Diesel engines as found in Citroën AX, Saxo, Xsara; Peugeot 106; Nissan Micra and Rover 115.

Tool for locking the flywheel.



KL-0282-35 B

Reaction Wrench Set

(470mm long, adjustable)

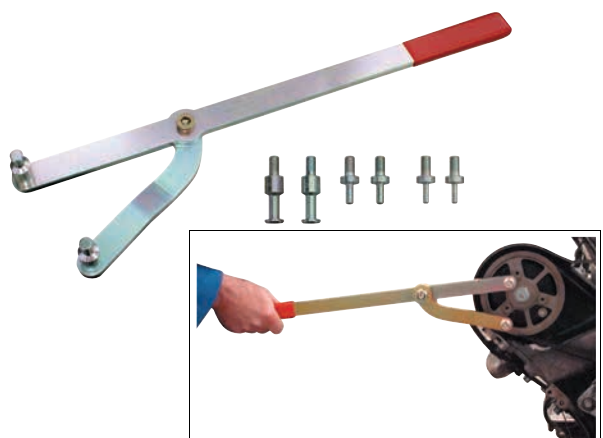
Universally suitable for use on perforated timing belt sprockets with a hole Ø not smaller than 6.5mm as found in: VW-Audi, Seat, Škoda, Alfa, Fiat, Lancia, Dacia, MG, Nissan, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Suzuki, Isuzu, Japanese vehicles, etc.

Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating, for example, when loosening/tightening the central fastening bolt.

Thanks to the different interchangeable pins and the adjustable lever allowing for variable adjustments to hole diameters and pitches, this tool is nearly universally applicable.

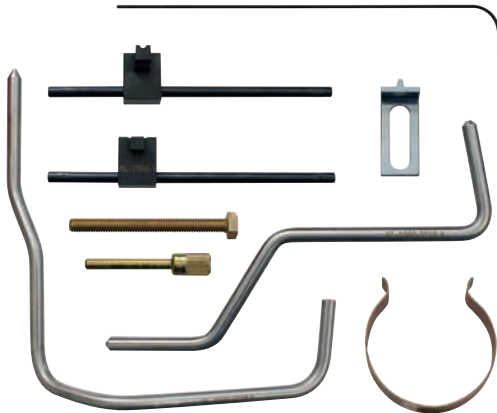
Scope of Delivery: KL-0282-35 B Reaction Wrench Set (470mm long, adjustable)

Part No.	Description	Qty
KL-0282-35	Reaction Wrench (adjustable)	1
KL-0282-311	Set of Pins, Ø 18mm	1
KL-0282-312	Set of Pins, Ø 7.5mm	1
KL-0282-313	Set of Pins, Ø 6mm	1



Technical Data:

Pitch between pins:	from 14-130mm
Pin Ø:	6mm, 7.5mm, 12mm, 18mm
Pin height:	25mm/42mm
Overall tool length:	470mm



KL-1380-27 B

Locking Tool Set, PSA

Applicable to PSA (Citroën, Peugeot) 1.9 litre Diesel engines as found in: Peugeot 206, Partner, Expert; Citroën Berlingo, C15, Dispatch, Jumpy, Xsara; Fiat Scudo. (Engine codes: DW8, DW8/L/W3, DW8/L3, DW8B, DW8B/L4, WJY, WJZ)

A very useful tool set designed for the locking/positioning of engine shafts such as camshaft, crankshaft, injection pump shaft, as well as for adjusting the timing belt tensioner when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-27 B Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-2602 A	Locking Tool for Crankshaft	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner	1
KL-1382-2	Adjustment Tool for Timing Belt Tensioner	1
KL-1380-2215 A	Locking Pin (angled)	1
KL-1380-2216 A	Locking Pin (angled)	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-1380-232 A	Hex Screw, M8x80mm	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2211 A	Locking Pin, Ø 6mm	1



KL-1380-234 A

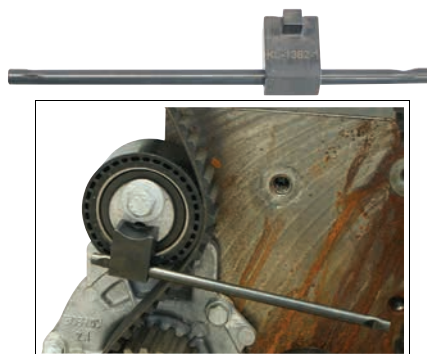
Puller for Crankshaft Pulley

Applicable to Citroën, Peugeot, Suzuki, Nissan and Subaru vehicles fitted with 1.0, 1.2, 1.3, 1.5, 1.6, 1.9, 2.0, 2.2, 2.4, 2.5 or 2.7 litre engines such as Citroën Berlingo, C4, C5, C8, Dispatch, Jumper, Jumpy, Relay, Xsara; Peugeot 206, 307, 406, 407, 607, 807, Boxer, Expert, Partner; Suzuki Alto, Grand Vitara, Ignis, Jimny, Kizashi, Liana, Splash, Swift, SX4, Wagon R+; Nissan Pixo; Subaru Justy G3X.

For example, included in tool set **KL-1380-26 KC**.

(Engine codes: 4HW, 4HY, DW8B/L4, DW10ATED, DW10ATED4, DW10ATED4/L4, DW10BTED, DW10BTED4, DW10BTED/L3, DW10CTED4, DW10JATED4, DW10TD, DW10UTD, DW10UTED4, DW12ATED4/L4, DW12UTED, H25A, H27A, J20A, J24B, K10B, K12B, M13A, M13A VVT, M15A, M15A VVT, M16A, M16A VVT, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHZ, WJY)

6



KL-1382-1

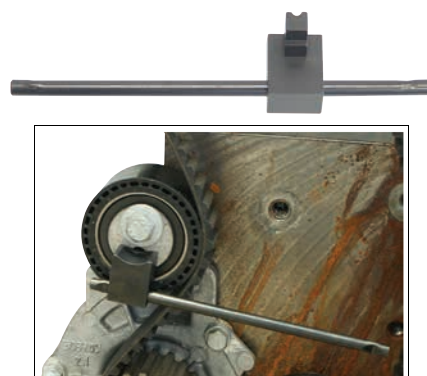
Adjustment Tool for Timing Belt Tensioner, Peugeot/Toyota

Suitable for use on Peugeot and Toyota engines: 1.9 HDI, DW8; 2.0 HDI, DW10; 2.2 HDI, DW12. (Engine codes: 4HW, 4HX, 4HY, 4HZ, RHM, RHS, RHT, RHV, RHW, RHX, RHY, RHZ, WJY)

Designed to tension the timing belt.

Technical Data:

Square:	7mm
Length:	157mm



KL-1382-2

Adjustment Tool for Timing Belt Tensioner, Peugeot

Suitable for use on Peugeot 206 Diesel engines 1.9 HDI, DW8 etc. as found in Citroën Berlingo, C15, Dispatch, Jumpy, Xsara; Peugeot 206, Expert, Partner. (Engines codes: WJY, WJZ)

Designed to tension the timing belt.

Technical Data:

Square:	8mm
Length:	157mm

KL-1380-26 KC

Locking Tool Set, PSA 1.4, 1.6, 2.0, 2.2 HDI

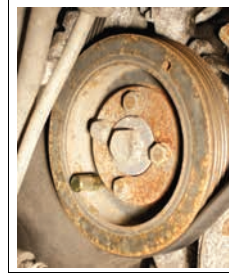
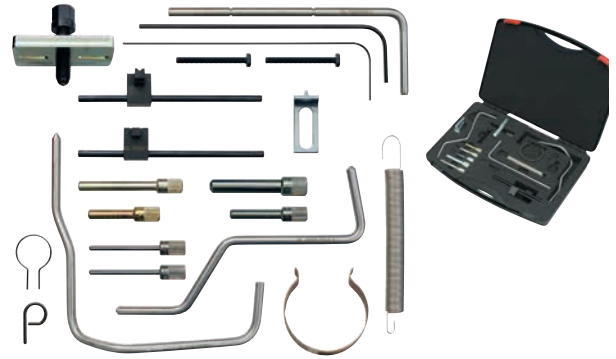
Applicable to PSA Citroën / Peugeot, Lancia, Ford, Volvo and Fiat 1.4, 1.6, 2.0 and 2.2 HDI Diesel engines, as found in: Peugeot Boxer II, Expert I/II, Expert III, Partner/ Partner Origin/Ranch I/II, RCZ, Boxer II, 206+, Bipper, Partner III, Expert III, Partner III, Partner/Partner Origin/Ranch I/II, 107, 206, 206 CC, 207, 207 CC, 307, 307 CC, 308, 308 CC, 406, 406 Coupe, 407, 508, 607, 807, 1007, 3008, 4007, 5008; Citroën Berlingo III, Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4, C4 II, C4 Picasso/Grand Picasso, C5, C5 II, C5 III, C6, C8, C-Crosser, Dispatch/Jumpy III, DS3, DS4, Nemo, Relay/Jumper II, Xsara II, Xsara Picasso; Fiat Ducato, Scudo, Ulysse; Lancia Phedra; Ford Scudo, C-MAX, Fiesta, Focus, Focus C-MAX, Fusion, Grand C-MAX, Mondeo; Mazda 2, 3, 5 and Volvo C30, S40, S60, S80, V50, V70.

For locking/positioning the camshaft, crankshaft, injection pump shaft and flywheel. The kit also contains tools for adjusting the timing belt tensioner and for holding the belt in position.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-26 KC Locking Tool Set, PSA 1.4, 1.6, 2.0, 2.2 HDI

Part No.	Description	Qty
KL-1380-2215 A	Locking Pin (angled)	1
KL-1380-2216 A	Locking Pin (angled)	1
KL-1380-2219 A	Locking Pin, Ø 7.9mm	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-1380-233 A	Locking Pin (angled), Ø 7.7mm	1
KL-1380-234 A	Puller for Crankshaft Pulley	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2601 A	Centring Tool for Crankshaft Sprocket	1
KL-1380-2602 A	Locking Tool for Crankshaft, Ø 2mm	1
KL-1380-2603	Locking Pin (angled), Ø 4mm	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner	1
KL-1382-2	Adjustment Tool for Timing Belt Tensioner	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 8mm	1
KL-1380-2690 A	Plastic Storage Case	1



(Engine codes: 4HK, 4HL, 4HN, 4HP, 4HR, 4HS, 4HT, 4HW, 4HX, 4HY, 4HZ, 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, AHY, AHZ, D4162T, D4162T DRIVE, D4164T, D4164T DRIVE, DV4C, DV4TD, DV4TED, DV4TED4, DV6ATED4, 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, DW12ATED4/L4, DW12BTED4, DW12CTED4, DW12MTED4, DW12TED4, DW12TED4/L4, DW12UTED, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 Y6, H02, RHC, RHD, RHE, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHH, RHZ, T1BA/B/C, TZJA, Y6)

KL-1380-26 KB

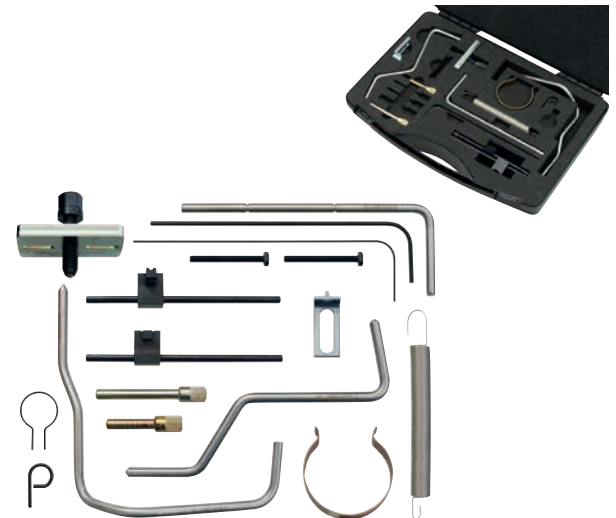
Locking Tool Set, PSA

Suitable for the PSA (Citroën, Peugeot) and Fiat 2.0 and 2.2 Diesel engines as found in: Peugeot 206, 307, 308, 3008, 406, 407, 4007, 508, 5008, 607, 807, Boxer II, Expert, Partner, RCZ; Citroën Berlingo, C4, C5, C6, C8, C-Crosser, Dispatch, DS4, Jumper, Jumpy, Relay, Xsara; Fiat Ducato, Scudo, Ulysse; Lancia Phedra.

Very useful tool set for locking/positioning engine shafts such as camshaft, crankshaft, injection pump shaft, as well as for adjusting the timing belt tensioner when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-26 KB Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-2219 A	Locking Pin, Ø 7.9mm	1
KL-1380-2215 A	Locking Pin (angled)	1
KL-1380-2216 A	Locking Pin (angled)	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-1380-233 A	Locking Pin (angled), Ø 7.7mm	1
KL-1380-234 A	Puller for Crankshaft Pulley	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2601 A	Centring Tool for Crankshaft Sprocket	1
KL-1380-2602 A	Locking Tool for Crankshaft	1
KL-1380-2603	Locking Pin (angled), Ø 4mm	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner	1
KL-1382-2	Adjustment Tool for Timing Belt Tensioner	1
KL-1380-2690 A	Plastic Storage Case	1



(Engine codes: 4HK, 4HL, 4HN, 4HP, 4HR, 4HS, 4HT, 4HW, 4HX, 4HY, 4HZ, AHY, AHZ, DW10ATED, DW10ATED4, DW10ATED4/L4, DW10BTED, DW10BTED4, DW10BTED4/L3, DW10C, DW10CTED4, DW10JATED4, DW10TD, DW10UTD, DW10UTED4, DW12ATED, DW12ATED4/L4, DW12BTED4, DW12CTED4, DW12MTED4, DW12UTED, DW12TED4, DW12TED4/L4, RH02, RHC, RHD, RHE, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHZ)



(Engine codes: 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, 8140.63, F1AE0481A, F1AE0481B, F1AE0481C, F1AE0481D, F1AE0481F, F1AE0481FA, F1AE0481G, F1AE0481GA, F1AE0481H, F1AE0481HA, F1AE0481N, F1AE0481R, F1AE0481RA, F1AE0481UA, F1AE0481VA, F1CE0481A, F1CE0481B, F1CE0481D, F1CE0481D/SOFIM, F1CE0481F, F1CE0481H, F1CE3481D, F1CE3481D/SOFIM, F1CE3481DM, F1CE3481DM/SOFIM, F1CE3481E, F1CE3481E/SOFIM, F1CE3481M, F1CE3481N, F1CE3481N/SOFIM, F30DTE)

KL-1682-26 KA

Locking Tool Set, 2.3, 2.8 and 3.0 JTD

Applicable to Fiat, Citroën, Peugeot and Iveco 2.3, 2.8 and 3.0 litre Diesel engines as found in: Fiat Ducato; Peugeot Boxer; Citroën Relay, Jumper; Iveco Daily.

Designed for the locking/positioning of the injection pump shaft, camshafts and crankshaft. The kit also includes tools to lock the timing belt tensioner and to fix the timing belt during installation.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1682-26 KA Locking Tool Set, 2.3, 2.8 and 3.0 JTD

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1682-2601	Locking Tool for Flywheel	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1682-2401	Spacer Sleeve for Timing Belt	1
KL-1682-410 A	Locking Tool for Camshaft	1
KL-1682-411 A	Locking Tool for Crankshaft	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1682-2690	Plastic Storage Case	1



(Engine codes: 8140.43, 8140.43B, 8140.43C, 8140.43N, 8140.43R, 8140.43S, 8140.63, S8U, S8U 770, S8U 772, S9W, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702)

KL-1682-24 KB

Locking Tool Set

Applicable to Fiat, Opel/Vauxhall, Citroën, Peugeot, Iveco and Renault 2.5 and 2.8 litre Diesel engines as found in: Fiat Ducato; Opel/Vauxhall Movano; Renault Master, Mascott; Peugeot Boxer II, Citroën Relay, Jumper; Iveco Daily.

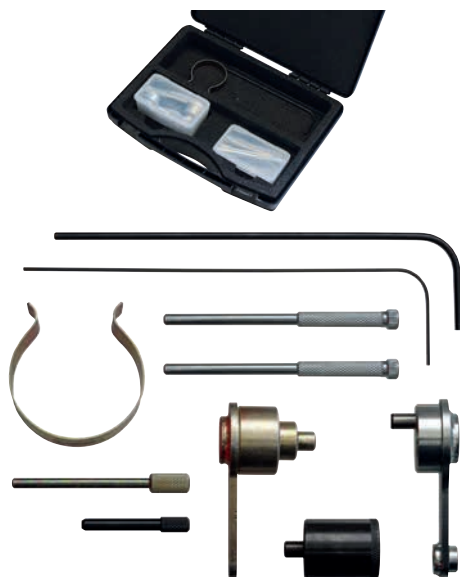
Designed for the locking/positioning of the crankshaft, injection pump shaft and flywheel. The kit also contains a tool to lock the timing belt tensioner.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1682-24 KB Locking Tool Set

Part No.	Description	Qty
KL-1682-2601	Locking Tool for Flywheel	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1682-2401	Spacer Sleeve for Timing Belt	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1
KL-1280-204 A	Locking Pin, Ø 4.9/3.9mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-1682-2490	Plastic Storage Case	1

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(Engine codes: D20CTED4, DT17BTED4, DT17TED4, 276D, 276DT, TDV6, UHZ, X8Z)

KL-1380-29 KB

Locking Tool Set, PSA 2.7 and 3.0 HDI

Applicable to PSA (Peugeot, Citroën 2.7 and 3.0, Land Rover, Range Rover and Jaguar 2.7 V6 TwinCam (DOHC) Diesel engines as found in: Land Rover Discovery 3, Range Rover Sport; Jaguar S-Type, XJ Series; Peugeot 407, 607; Citroën C5, C6.

Designed for the locking/positioning of camshafts, crankshaft and coolant pump. The kit also contains a tool for retaining the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-29 KB Locking Tool Set, PSA 2.7 and 3.0 HDI

Part No.	Description	Qty
KL-1380-2901 B	Locking Pin for Camshafts	1
KL-1380-2902 B	Locking Pin for Camshafts	1
KL-1380-2903 B	Locking Pin for Coolant Pump	1
KL-1380-2904 B	Locking Tool for Flywheel	1
KL-1380-2905 B	Locking Tool for Flywheel	1
KL-1380-2906 B	Locking Tool for Flywheel	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2602 A	Locking Tool for Crankshaft	1
KL-1380-2603	Locking Pin (angled), Ø 4mm	1
KL-4999-2001	Plastic Storage Box, 53x107x18mm	1
KL-4999-2002	Plastic Storage Box, 53x107x40mm	1
KL-4999-1103	Plastic Storage Case	1

KL-1380-101 KA

Locking Tool Set, PSA, Renault

Universally applicable to the following 1.0, 1.1, 1.2, 1.4, 1.6, 1.7, 1.8, 1.9, 2.0, 2.2, 2.5 litre petrol engines as well as 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.5, 2.1, 2.2, 2.5, 2.8 D/TD/TDI Diesel engines from Citroën, Peugeot, Renault, Dacia, Fiat, FSO, LDV, Nissan, Mitsubishi, Opel/Vauxhall, Rover, Lancia. For example, fitted to: Peugeot Boxer I, 106, 205, 206, 207, 306, 307, 308, 309, 405, 605, 806, 1007, 206+, Bibber, Expert, J5, Partner; Citroën AX, Berlingo, BX, C15, C2, C3, Evasion, Jumper / Relay, Nemo, Saxo, Xantia, XM, Xsara, ZX; Renault 5, 19, 21, 25, Clio, Clio II, Espace, Espace II, Espace III / Grand Espace, Express / Rapid, Kangoo, Laguna, Laguna II, Master, Master II, Megane, Megane Scenic, Safrane, Scenic II, Senic, Trafic, Trafic II, Twingo; Dacia Dokker, Lodgy, Logan, Logan MCV, Sandero, Solenza; Fiat Ulysse, Ducato, Scudo; Suzuki Samurai, Grand Vitara, Vitara; Mitsubishi Carisma, Space Star; Opel/Vauxhall Vivaro, Movano; Nissan Kubistar, Primera; Rover 100 / Metro; Lancia Zeta; LDV Pilot.

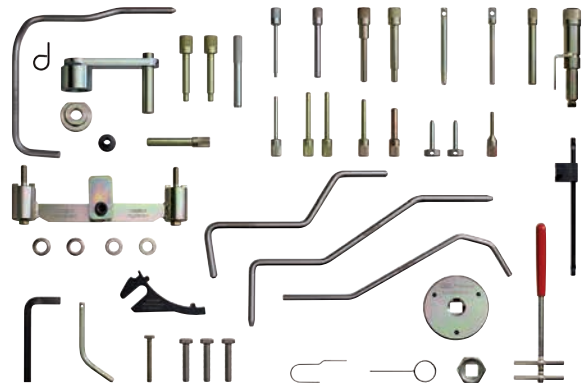
For locking the camshaft, crankshaft and injection pump shaft, as well as for positioning the timing belt tensioner.

An indispensable tool set when replacing a timing belt or during an engine repair.



Scope of Delivery: KL-1380-101 KA Locking Tool Set, PSA, Renault

Part No.	Description	Qty
KL-0129-2105 A	Adaptor, M10x1 to M8x1	1
KL-0180-3019	Retaining Pin, Ø 1.9mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-202 A	Locking Pin, Ø 6.9mm	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1
KL-1280-204 A	Locking Pin, Ø 4.9/3.9mm	1
KL-1280-205 A	Hex Screw, M6x45mm	1
KL-1280-206 A	Adjustment Tool for Belt Tensioner, with 2 Pins	1
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1380-1011 A	Timing Belt Pre-Tensioning Tool	1
KL-1380-11	Locking Pin B, Ø 9.5mm	1
KL-1380-2211 A	Locking Pin, Ø 6mm	1
KL-1380-2212 A	Locking Pin, Ø 5.9mm	2
KL-1380-2213 A	Locking Pin, Ø 4.9mm	1
KL-1380-2215 A	Locking Pin for Flywheel, Ø 7.7mm, angled	1
KL-1380-2216 A	Locking Pin for Flywheel, Ø 7.9mm, angled	1
KL-1380-2217 A	Locking Pin, Ø 10mm	1
KL-1380-2218 A	Locking Pin, Ø 8.4/6.5 mm	2
KL-1380-2219 A	Locking Pin, Ø 7.9mm	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2223 A	Locking Pin, Ø 10/8mm	1
KL-1380-2226 A	Retaining Pin for Tensioner Pulley, Ø 1.5mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley, Ø 3.0mm	1
KL-1380-2230 A	Adjustment Tool for Timing Belt Tensioner, 8mm, square	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner, Peugeot/Toyota	1
KL-1480-10	Locking Pin, Ø 6.8mm, angled	1
KL-1480-11	Locking Pin, Ø 6mm, angled	1
KL-1480-12	Locking Pin, Ø 6mm, short	2
KL-1480-13	Locking Pin, M8/Ø 6.7mm	1
KL-1480-15	Locking Pin, Ø 7.8mm, angled	1
KL-1480-18	Hex Screw, M8x40mm	3
KL-1380-1090 A	Plastic Storage Case	1



(Engine codes: D7F, DJ5, DJ5T, DJ5TED, DKATE, E5F, E6J, E7F, E7J, F1N, F2N, F2R, F3N, F3P, F3R, F7P, F7R, F8M, F8Q, F9Q, G8T, J5T, J6R, J7R, J7T, J8S, K7M, N7Q, N7U, S8U, S9U, S9W, TU1, TU3, TU5J4, TU5JP, TU9, TUD3, TUD5, XU10J2, XU10J4, XU5, XU7, XU7JP4, XU9, XU9J4, XUD11, XUD7, XUD9)

6

KL-1380-231 A

Locking Tool for Flywheel, Citroën/Peugeot

Applicable to Citroën/Peugeot Diesel and petrol engines; as well as for Porsche 911 (991). 1.9 DW8; 2.0 HDI, DW10; 2.2 HDI DW12; Volvo 2.0 D4204T.

Designed to lock the flywheel.



(Engine codes: 4HK, 4HL, 4HN, 4HP, 4HR, 4HS, 4HT, 4HW, 4HX, 4HY, 4HZ, AHY, AHZ, D4204T, DW10ATED, DW10ATED4, DW10ATED/L3, DW10ATED4/L4, DW10BTED, DW10BTED/L3, DW10BTED4, DW10C, DW10CTED4, DW10JATED4, DW10UTED4, DW10UTD, DW10TD, DW12ATED, DW12ATED4/L4, DW12BTED4, DW12CTED4, DW12TED4, DW12UTED, DW8, DW8/L/W3, DW8/L3, DW8B, DW8B/L4, DW8B/L4, LFY, RFS, RFV, RHC, RHD, RHE, RHF, RHG, RHH, RHJ, RHK, RHL, RHM, RHR, RHS, RHT, RHV, RHW, RHX, RHY, RHZ, WJY, WJZ, XU10J4R/L3, XU10J4RS/L3, XU7JP4/L3)



KL-1380-22 KA

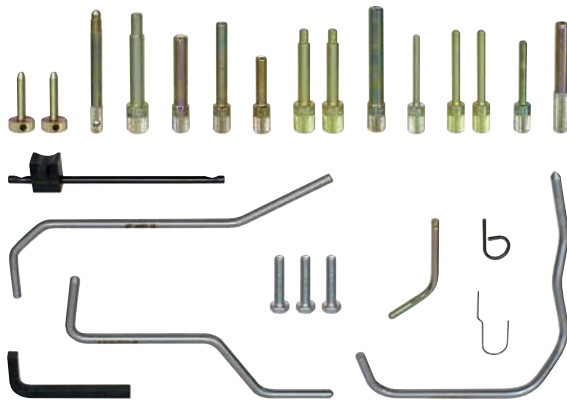
Locking Tool Set, Citroën/Peugeot

Applicable to PSA (Citroën, Peugeot), Fiat, Nissan, Rover and TATA 1.4, 1.5, 1.7, 1.8, 1.9, 2.1, 2.2 and 2.5 litre Diesel engines as well as for the 1.0, 1.1, 1.4, 1.6, 1.8, 1.9 and 2.0 litre PSA petrol engines as installed in Citroën AX, Berlingo, BX, C15, Dispatch, Evasion, Jumper, Jumpy, Relay, Saxo, Synergie, Visa, Xanita, XM, Xsara, ZX; Peugeot 106, 205, 206, 305, 306, 307, 309, 405, 406, 605, 806, Boxer, Expert, Partner, Talbot Express; Fiat Ducato, Scudo, Ulysse; FSO Caro; LDV 200, Pilot; Nissan Micra; Rover Metro; TATA Loadbeta etc.

This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft, injection pump shaft, balancer shaft as well as of the timing belt tensioner. It also includes a tool to adjust the timing belt tensioner. Indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-22 KA Locking Tool Set, Citroën/ Peugeot

Part No.	Description	Qty
KL-1380-11	Locking Pin for Injection Pump, Ø 9.5mm	1
KL-1380-2211 A	Locking Pin for Injection Pump, Ø 6.0mm	1
KL-1380-2212 A	Locking Pin for Balancer Shaft, Ø 5.9mm	2
KL-1380-2213 A	Locking Pin for Injection Pump, Ø 4.9mm	1
KL-1480-13	Locking Pin for camshaft, M8, Ø 6.7mm	1
KL-1380-2215 A	Locking Pin for flywheel (angled), Ø 7.7mm	1
KL-1380-2216 A	Locking Pin for Flywheel (angled), Ø 7.9mm	1
KL-1380-2217 A	Locking Pin for Cankshaft/Camshaft, Ø 10mm	1
KL-1380-2218 A	Locking Pin for Camshaft, Ø 8.4/6.5mm	2
KL-1380-2219 A	Locking Pin for Camshaft, Ø 7.9mm	2
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1480-12	Locking Pin for Camshaft, Ø 6.0mm	2
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2223 A	Locking Pin for Crankshaft, Ø 10/8mm	1
KL-1480-11	Locking Pin for Flywheel (angled), Ø 6.0mm	1
KL-1480-18	Hex Screw, M8x40mm	3
KL-1380-2226 A	Retaining Pin for Tensioner Pulley, Ø 1.5mm	1
KL-1480-10	Locking Pin for Auxiliary Belt (angled), Ø 6.8mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley, Ø 3.0mm	1
KL-1382-1	Adjustment Tool for Timing Belt Tensioner, 7mm, square	1
KL-1380-2230 A	Adjustment Tool for Timing Belt Tensioner, 8mm, square	1
KL-1380-2290 A	Plastic Storage Case	1



(Engine codes Diesel: DJ5, DKATE, TUD, VJZ, XUD; Petrol: LFW, RGX, RFU, RFW, TU, XU)

6



KL-1380-751 K

Locking Tool Set, PSA

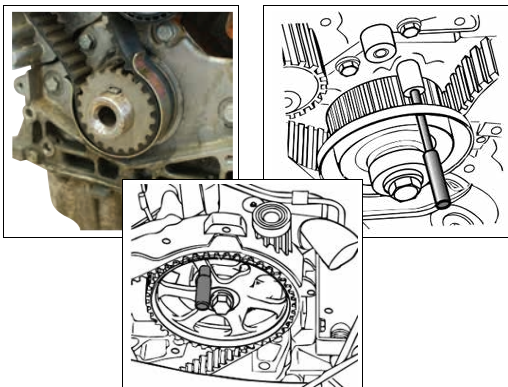
Applicable to PSA (Citroën, Peugeot) and Fiat 1.0, 1.1, 1.4 and 1.6 litre petrol engines as found in: Peugeot 106, 1007, 206, 207, 306, 307, 308, Bipper, Partner; Citroën Berlingo, C2, C3, C4, Nemo, Saxo, Xsara; Fiat Fiorino, Qubo.

Designed for the locking/positioning of camshafts, crankshaft, timing belt- and auxiliary drive belt (V-ribbed belt) tensioners, and flywheel. The kit also includes a tool for retaining the timing belt on the crankshaft sprocket.

An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-751 K Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-2603	Locking Pin (angled), Ø 4mm	1
KL-1380-2481	Locking Pin (angled), Ø 4.9mm	1
KL-0180-3030	Locking Pin, Ø 3mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	1
KL-1380-2217 A	Locking Pin, Ø 10mm	1
KL-1380-2219 A	Locking Pin, Ø 7.9mm	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley	1
KL-1380-2230 A	Adjustment Tool for Timing Belt Tensioner, 8mm	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-2801 A	Locking Pin (angled)	1
KL-1381-3021	Locking Pin (angled), Ø 4.2mm	1
KL-1480-11	Locking Pin (angled), Ø 6mm	1
KL-1480-12	Locking Pin (short), Ø 6mm	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1



(Engine codes: CDY, CDZ, HDZ, HFV, HFY, HFZ, KFR, KFS, KFT, KFU, KFV, NFT, NFW, NFX, NFZ, ET3J4, ET3JP4, TU1A, TU1JP, TU1JP/L4, TU1M+, TU3A, TU3JP, TU3JP/L4, TU3JP/IFL4, TU5J2, TU5J4, TU5J4/L3, TU5J4/L4, TU5JP, TU5JP/L3, TU5JP/L4, TU5JP4, TU5JP4B, TU5JP4S, TU5JP4/L3, TU5JP4/L4, TU9M, TU9M/L, TU9M/L3)

KL-0580-83 KA

Locking Tool Set, BMW 1.4 and 1.6 16V

Applicable to Mini 1.4 and 1.6 litre engines (engine codes: N12, N14, N16) and PSA engines (engine codes: EP3, EP3C, EP6, EP6C, EP6CDT, EP6DT, EP6DTE, EP6DTS) as installed in Mini Cooper (R55, R56), Mini Cooper S (R55, R56), Mini One (R56), Citroën C4, C4 Picasso and Peugeot 207, 308.

Designed to be used for locking/positioning camshafts and crankshaft as well as for adjusting the VANOS adjustment units. Kit also includes a tool to pre-tension the timing chain tensioner. An indispensable tool set when replacing a timing chain, removing and installing VANOS adjustment units or performing engine repairs.

Scope of Delivery:

KL-0580-83 KA Locking Tool Set, BMW 1.4 and 1.6 16V

Part No.	Description	Qty
KL-0580-831 A	Locking Pin for Flywheel	1
KL-0580-832 A	Locking Tool for Camshaft	1
KL-0580-833 A	Locking Tool for Camshaft	1
KL-0580-834 A	Locking Tool for Camshaft	1
KL-0580-8113 B	Pre-Tensioning Tool for Timing Chain	1
KL-0580-8390 A	Plastic Storage Case	1



KL-1380-753 K

Locking Tool Set, PSA

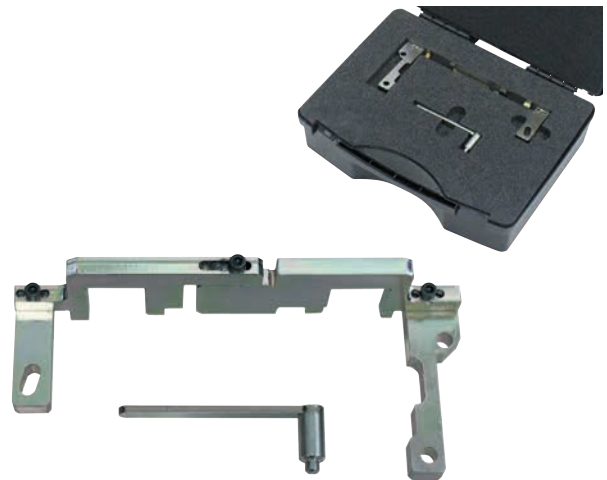
Applicable to Citroën, Peugeot 1.0 and 1.2 litre (3-cylinder) petrol engines as found in Citroën C1 II, C3 III, C4 Cactus, C4II, DS4, DS3, C-Elysee and Peugeot 108, 208, 301, 308, 308 II, 2008. (Engine codes: EB0 [ZMZ], EB2, EB2 [HMT], EB2 [HMW], EB2 [HMZ], EB2D [HMT], EB2DT, EB2DT [HNZ], EB2DTS [HNY], EB2F [HMZ], EBF2 [HMZ])

Designed for the locking of camshafts and crankshaft. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1380-753 K Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-7531	Locking Plate for Camshaft	1
KL-1380-7532	Locking Pin, Ø 14/7.7mm	1
KL-1380-7539	Plastic Storage Case	1



6

KL-1380-28 A

Locking Tool Set, Peugeot/Citroën 1.4 16V

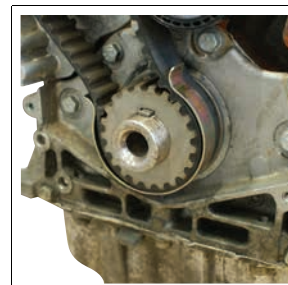
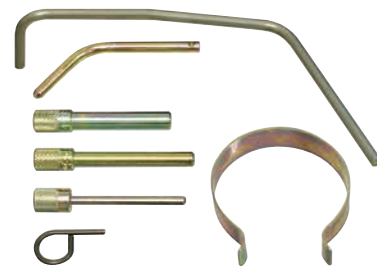
Applicable to Citroën and Peugeot 1.4 16V TwinCam petrol engines as found in Citroën C2, C3/Pluriel, C4; Peugeot 206, 207, 307, 1007 and Berlingo. (Engine codes: KFU, KFU, KFU)

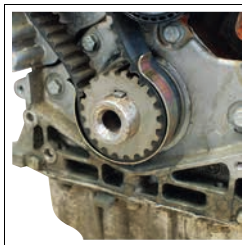
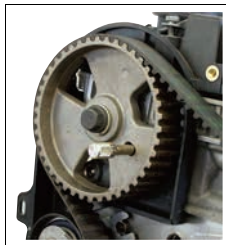
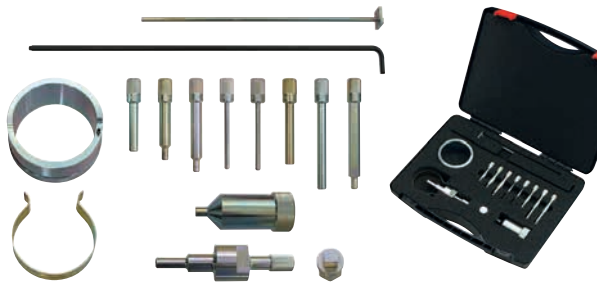
This tool set is designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner while replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-1380-28 A Locking Tool Set, Peugeot/Citroën 1.4 16V

Part No.	Description	Qty
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2801 A	Locking Pin (angled), Ø 6mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley, Ø 3mm	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	1
KL-1480-11	Locking Pin (angled), Ø 6mm	1





(Engine codes: 3FY, 3FZ, 6FY, 6FZ, EW10A, EW10ABE4, EW10D, EW10J4, EW10J4/L4/5, EW10J4/L5, EW10J4S, EW12J4, EW12J4/L5, EW7A, EW7J4, RFH, RFJ, RFK, RFN, RFR, RLZ)

KL-1380-24 KC

Locking Tool Set, PSA 1.8, 2.0 and 2.2

Applicable to PSA (Citroën, Peugeot), Fiat, Lancia 1.8, 2.0 and 2.2 litre petrol engines as found in: Peugeot 206/CC, 307/CC, 406, 407, 607, 807, Expert I/II/III; Citroën C4, C5, C8, Dispatch, Jumpy, Xsara Picasso/II; Fiat Ulysse; Lancia Phedra.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft, and for adjusting the timing belt tensioner when replacing the timing belt or during an engine repair.

Scope of Delivery: KL-1380-24 KC Locking Tool Set, PSA, 1.8, 2.0 and 2.2

Part No.	Description	Qty
KL-1380-2481	Locking Pin (angled), Ø 4.9mm	1
KL-1380-2482	Adaptor, Ø 9.5mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 8mm	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1380-242 A	Locking Pin Set for Camshaft	1
KL-1380-243 A	Locking Tool for Camshaft	1
KL-1380-244 A	Locking Pin for Crankshaft	1
KL-1380-245 A	Locking Pin for Flywheel, Ø 28.5/8mm	1
KL-1380-246 A	Adjustment Pin for Belt Tensioner Pulley	1
KL-1380-2471 A	Locking Pin for Crankshaft	1
KL-1380-2472 A	Adjustment Tool for Tensioner Pulley	1
KL-1380-2473 A	Counter-Holding Tool for Tensioner Pulley	1
KL-1380-2490 B	Plastic Storage Case with Insert	1

KL-1380-752 K

Locking Tool Set, PSA

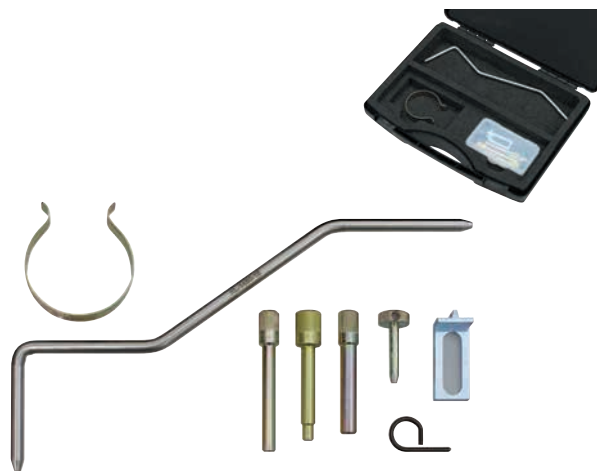
Applicable to PSA (Citroën, Peugeot) and Fiat 1.8 and 2.0 litre petrol engines as found in: Peugeot 306, Boxer II; Citroën Relay, Jumper; Fiat Ducato.

Designed for the locking/positioning of camshafts, crankshaft, timing belt tensioner, and flywheel. The kit also contains a tool to retain the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1380-752 K Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-2218 A	Locking Pin, Ø 8.4/6.5mm	1
KL-1380-2220 A	Locking Pin, Ø 7.9mm	1
KL-1380-2222 A	Locking Pin, Ø 9.9mm	1
KL-1380-2228 A	Retaining Pin for Tensioner Pulley	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1480-12	Locking Pin (short), Ø 6mm	1
KL-1480-15	Locking Pin (angled)	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1107	Plastic Storage Case	1

6



(Engine codes: LFY, LFZ, RFL, RFV, XU7JP/L3, XU7JP4/L3, XU10J2U, XU10J4R/L3)

KL-0680-701 K

Locking Tool Set, Ford, Fiat, PSA 2.2

Applicable to Ford, Fiat, Citroën and Peugeot 2.2 litre Common Rail Diesel engines. For example, fitted to: Ford Transit, Fiat Ducato, Citroën Relay/Jumper III and Peugeot Boxer III.

For locking the crankshaft and camshaft, as well as for aligning the engine front cover when installing it. The set also includes the necessary tool to remove/install crankshaft seal rings. An indispensable tool set when replacing timing chains or performing engine repairs.

Scope of Delivery: KL-0680-701 K Locking Tool Set, Ford, Fiat, PSA 2.2

Part No.	Description	Qty
KL-0680-7011	Locking Tool, Crankshaft	1
KL-0680-7012	Cap for Crankshaft	1
KL-0680-7013	Turning Tool for Injection Pump	1
KL-0680-2102 A	Locking Pin, Ø 14/10mm	1
KL-0680-2103 A	Locking Pin, Ø 6mm	2
KL-4990-2001	Plastic Storage Box, 53x107x18mm	1
KL-4990-1007	Plastic Storage Case	1



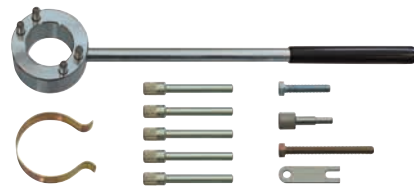
(Engine codes: 4HU (P22DTE), 4HV (P22DTE), CYFA, CYFB, CYFC, DRFA, DRFB, DRFC, P22DTE, P8FB, PGFA, PGFB, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, USRA)

KL-1380-25 A Locking Tool Set, PSA

Applicable to PSA (Citroën, Peugeot), Lancia and Renault 3.0 litre petrol engines as found in: Peugeot 406, 407, 607; Renault Avantage, Laguna II; Citroën C5, C6, C8; Lancia Phedra.

(Engine codes: ES9A, ES9J4S, ES9J4S/L5, L7X, L7X 731, L7X 733, XFU, XFV, XFW, XFX)

Designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner. The kit also includes tools to counter-hold the camshafts and to retain the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.



Scope of Delivery: KL-1380-25 A Locking Tool Set, PSA

Part No.	Description	Qty
KL-1380-251 A	Locking Pin Set	1
KL-1380-252 A	Camshaft Timing Check Pin, Ø 7.9/5.9mm	1
KL-1380-253 A	Holding Tool for Camshaft Sprocket (exhaust)	1
KL-1380-237 A	Retaining Clip for Timing Belt	1
KL-1480-18	Hex Screw, M8x40	1
KL-1380-232 A	Hex Screw, M8x80	1
KL-1380-257 A	Tensioner Tool	1
KL-4990-2003	Plastic Storage Box	1

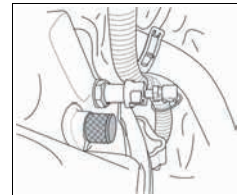
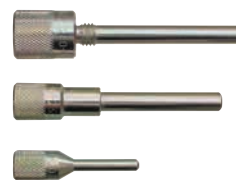
KL-1280-701 Locking Tool Set, Renault

Applicable to Dacia, Nissan, Opel/Vauxhall, Renault, Suzuki and Mercedes 1.5 and 2.8 litre Diesel engines as fitted to: Renault Clio II / III, Fluence, Kangoo I / II, Laguna III, Logan, Mascott, Master II / Propulsion / RWD, Megane II / III, Modus I / II, Scenic I / II, Twingo II; Opel/Vauxhall Movano-A; Dacia Duster, Logan / MCV / Pick-up / Van; Nissan Cube, Juke, Kubistar, Micra, Note, NV200, Qashqai, Tiida; Suzuki Jimny; Mercedes A-Class, B-Class, Citan, CLA.

Designed for the locking/positioning of engine shafts such as camshaft, crankshaft, injection pump and flywheel. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-701 Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-203 A	Locking Pin, Ø 4.9mm	1

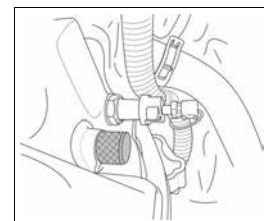
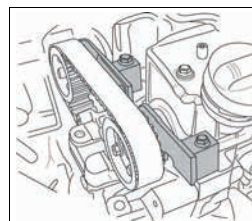


(Engine codes: K9K, K9K262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 838, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898; S9W 206, S9W 208, S9W 212, S9W 700, S9W 702, 607.951)

KL-1280-24 KC Locking Tool Set, Renault

Applicable to Renault, Opel/Vauxhall and Nissan 1.5, 1.9, 2.2, 2.5, 2.8 and 3.0 litre Common Rail Diesel engines as found in Renault Clio II / III, Espace IV, Fluence, Kangoo I / II, Laguna II / III, Logan, Mascott, Master II, Megane I / II / III, Modus I / II, Scenic I / II / III, Traffic II, Twingo II, Vel Satis; Dacia Duster, Logan; Nissan Cube, Interstar, Juke, Kubistar, Micra, Navara, Note, NV200, Primastar, Qashqai, Tiida; Suzuki Grand Vitara, Jimny; Mitsubishi Carisma, Space Star; Opel/Vauxhall Movano-A, Vivaro. (Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, G9T 600, G9T 605, G9T 606, G9T 607, G9T 642, G9T 645, G9T 700, G9T 702, G9T 702/703, G9T 703, G9T 706, G9T 707, G9T 720, G9T 722, G9T 742/743, G9T 750, G9T F722, G9U 630, G9U 632, G9U 650, G9U 720, G9U 724, G9U 726, G9U 730, G9U 750, G9U 754, G9U A720, K9K, K9K 262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898, S9W 206, S9W 208, S9W 212, S9W 700, S9W 702, VG30E)

Designed for the locking/positioning of camshafts, crankshaft, injection pump, timing belt tensioner and flywheel. The kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when changing a timing belt or performing an engine repair.



Scope of Delivery: KL-1280-24 KC Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-203 A	Lockin Pin, Ø 4.9mm	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-242 A	Locking Tool for Camshafts	1
KL-1280-243 B	Locking Pin, Ø 7mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1



KL-1280-27 K

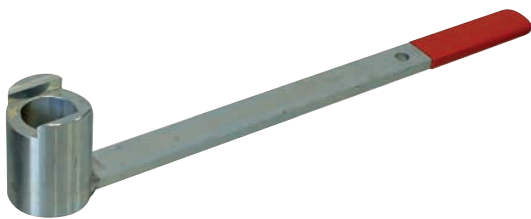
Locking Tool Set, Renault 2.0 dCi

Applicable to Renault, Nissan, Opel/Vauxhall 2.0 and 2.3 dci Diesel engines as found in Renault Espace IV, Koleos, Laguna, Master, Megane, Senic III, Traffic II, Vel Satis; Nissan: Primastar, Qashqai, X-Trail; Opel/Vauxhall: Movano-B, Vivaro. (Engine codes: M9R, M9T)

Designed for the locking/positioning of camshaft, crankshaft and timing chain tensioner. An indispensable tool set when replacing a timing chain or performing an engine repair.

Scope of Delivery: KL-1280-27 K Locking Tool Set, Renault 2.0 dCi

Part No.	Description	Qty
KL-1280-271	Locking Tool for Camshaft	1
KL-1280-272	Locking Pin, M10/Ø 7.5mm	1
KL-0180-3026	Retaining Pin, Ø 2.6mm	1
KL-0182-19 A	Flywheel Locking Tool	1
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1280-2790	Plastic Storage Case	1



KL-1280-273

Reaction Wrench

Applicable to Renault, Nissan, Opel/Vauxhall 2.0 dci, 2.3 dCi/CDTi and 3.0 dCi Diesel engines as found in Renault Espace, Koleos, Laguna, Latitude, Master, Megane, Trafic, Vel Satis; Nissan Primastar, Qashqai, X-Trail; Opel/Vauxhall Movano-B, Vivaro. (Engines codes: M9R, M9T, V9X)

This tool is used to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw. Required when replacing a timing belt or performing an engine repair.



(Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, VG30E)

KL-1280-702 K

Locking Tool Set, Renault

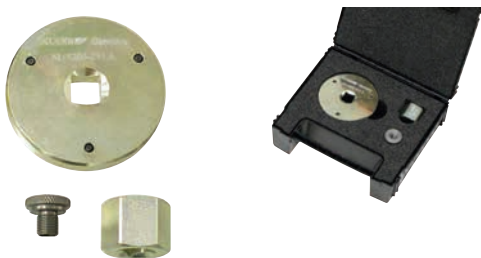
Applicable to Mitsubishi, Nissan, Opel/Vauxhall, Renault, and Suzuki 1.9 and 3.0 litre Diesel engines as found in: Renault Clio II, Espace IV, Kangoo, Laguna II, Master II, Megane I / II / III, Scenic I / II / III / RX4, Traffic II; Opel/Vauxhall Movano-A, Vivaro; Mitsubishi Carisma, Space Star; Nissan Interstar, Primastar, Navara; Suzuki Grand Vitara; Volvo S40/V40.

Designed for the locking/positioning of the crankshaft, injection pump and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt.

An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-702 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1



(Engine codes: F8Q, F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, D 4192 T, D 4192 T2)

KL-1280-21 KA

Injection Pump Adjustment Tool, Renault 1.9 D

Applicable to Renault, Mitsubishi, Opel/Vauxhall and Volvo 1.9 litre direct-injection Diesel engines with adjustable injection pump sprocket as found in Renault Megane/Scenic, Kangoo; Mitsubishi Carisma, Space Star; Opel/Vauxhall Arena; Nissan Interstar, Primastar and Volvo S40/V40.

This injection pump adjustment tool is used in conjunction with the KL-0129-1 A tool set and the corresponding locking tools for adjusting the injection pump timing relative to the crankshaft (start-of-delivery setting).

Scope of Delivery: KL-1280-21 KA Injection Pump Adjustment Tool, Renault 1.9 D

Part No.	Description	Qty
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-0129-2105 A	Adaptor for Bosch Pumps, M10x1 to M8x1	1
KL-1280-2190	Plastic Storage Case	1

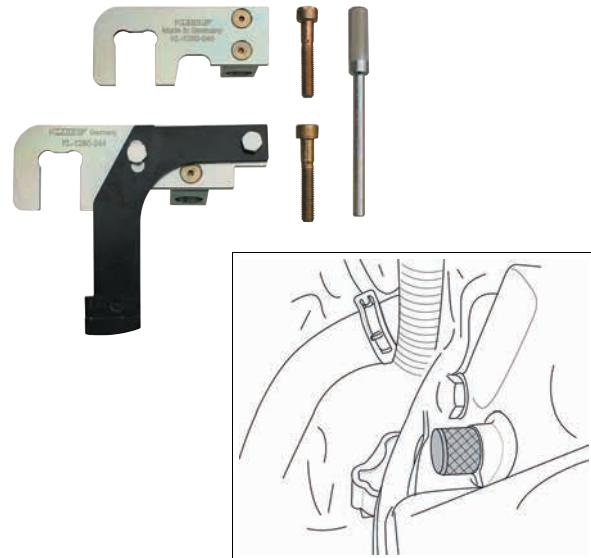
KL-1280-703

Locking Tool Set, Renault

Applicable to Nissan, Opel/Vauxhall and Renault 2.2 and 2.5 litre Diesel engines as found in: Renault Espace, Laguna II, Master II, Traffic II, Vel Satis; Opel/Vauxhall Movano-A, Vivaro; Nissan Interstar, Primastar.

(Engine codes: G9T 600, G9T 605, G9T 606, G9T 607, G9T 642, G9T 645, G9T 700, G9T 702, G9T 703, G9T 706, G9T 707, G9T 720, G9T 722, G9T 742, G9T 743, G9T 750, G9T F722, G9U 630, G9U 632, G9U 650, G9U 720, G9U 724, G9U 726, G9U 730, G9U 750, G9U 754, G9U A720)

Designed for the locking/positioning of engine shafts such as camshafts and crankshaft. An indispensable tool set when replacing a timing belt or performing an engine repair.



Scope of Delivery:

KL-1280-703 Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-242 A	Locking Tool for Camshaft	1
KL-1280-243 B	Locking Pin, Ø 7mm	1

KL-1280-101 KA

Locking Tool Set

Applicable to Renault, Dacia, Opel/Vauxhall, Ford, Suzuki, Nissan, Mitsubishi, Volvo 1.2, 1.4, 1.6, 1.8, 2.0 16V and 2.5 20V petrol engines, and for the 1.9, 2.2, 2.5, 2.8 D/TD/dTi and the 1.5, 1.9, 2.2, 2.5 dCi Diesel engines as found in Renault Avantime, Clio II/III, Espace IV, Fluence, Kangoo I/II, Laguna II/III, Logan, Mascott, Master, Megane I/II/III, Modus I/II, Safrane, Scenic I/II/III, Thalia, Traffic II, Twingo, Vel Satis, Wind; Dacia Duster, Logan; Nissan Cube, Interstar, Juke, Kubistar, Micra, Navara, Note, NV200, Primastar, Primera, Qashqai, Tiida; Suzuki Grand Vitara, Jimny; Opel/Vauxhall Movano, Vivaro; Volvo S40, V40; Ford Focus, Galaxy, Kuga, Mondeo, S-Max; Mitsubishi Carisma, Space Star.

(Engine codes: B 4184 S2, B 4184 S9, B 4194 T2, B 4204 S2, B 4204 T3, D4F, D4Ft, D7F, E7J, F4P, F4R, F4Rt, F8Q, F9Q, F9Q1, F9Q2, G9T, G9U, K4J, K7J, K7M, K9K, K4M, N7Q, N7U, S9W, VG30E)

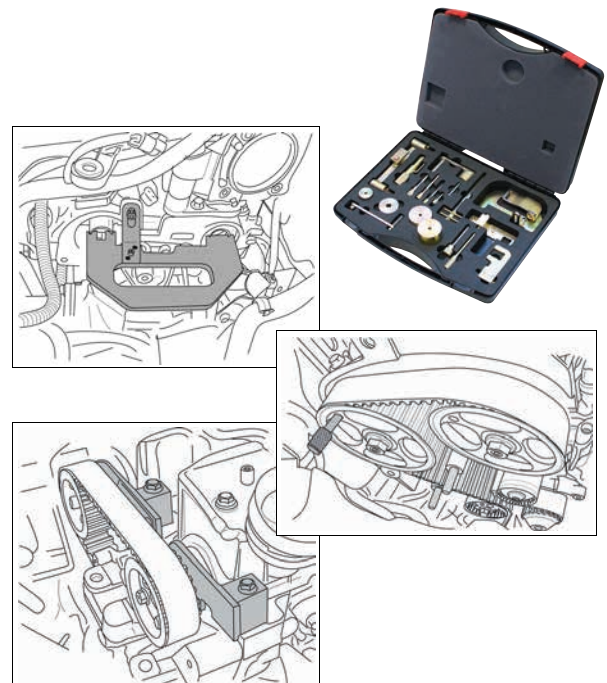
Designed for the locking/positioning of engine shafts such as camshaft, injection pump shaft, and crankshaft as well as for the adjustment of the timing belt tensioner while replacing a timing belt or during an engine repair.



Scope of Delivery:

KL-1280-101 KA Locking Tool Set

Part No.	Description	Qty
KL-1280-221 A	Locking Tool - For locking camshafts	1
KL-1280-231 B	Setting Gauge - For locking camshafts	1
KL-1280-242 A	Locking Tool - For locking camshafts	1
KL-1280-222 A	Locking Pin - For locking the crankshaft	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm - For locking the crankshaft	1
KL-1280-202 A	Locking Pin, Ø 6.9mm - For locking the crankshaft	1
KL-1280-204 A	Locking Pin, Ø 4.9/3.9mm - For locking the crankshaft	1
KL-1280-234 B	Locking Pin - For locking the crankshaft	1
KL-1280-243 B	Locking Pin - For locking the crankshaft	1
KL-1280-203 A	Locking Pin, Ø 4.9mm - For locking the injection pump	1
KL-1280-205 A	Hex Screw, M6x45mm - For adjusting the tensioner pulley	1
KL-1280-206 A	Adjustment Tool for Belt Tensioner	1
KL-1380-1011 A	Timing Belt Tensioner Tool - For adjusting the tensioner pulley	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-1090	Plastic Storage Case	1





Applicable to Renault, Opel/Vauxhall, Volvo petrol engines as found in Renault: Clio, Twingo 1.2 (D7F) 1.2, 1.4, 1.6 (E5 - E7F/ E7J/K7M) Clio, Megane, Scenic, Kangoo: 1.7, 1.8, 2.0 (F1N - F3N / F3P / F2R - F3R) Clio, Megane, Scenic: 1.8, 2.0 16V (F7P/F7R) Clio Williams, Megane, Spider, R19: 2.0, 2.2 (J5R - J7R, J5T) Safrane, Espace, Master, Traffic Volvo: 440, 460, 480 (B16 / B18 / B20) etc. Also suitable for use on Renault, Opel/Vauxhall, Volvo Diesel engines as found in Renault Clio, Laguna, Megane, Kangoo, Espace, Master, Traffic; Opel/Vauxhall Arena, Movano; Volvo S40, V40 1.9, 2.5, 2.8 (F8M / F8Q / G8T / J8S / F9Q / S8U / S9U / S9W) etc.

KL-1280-20 KA

Locking Tool Set, Renault

Tool set for locking/positioning camshafts, crankshaft and injection pump shaft. It also includes a tool to tension the timing belt. An indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-20 KA Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-2011 A	Locking Plate for Camshafts	1
KL-1280-2012	Set of Spacer Discs, 2mm (2-piece)	1
KL-1280-2013	Set of Spacer Discs, 8mm (2-piece)	1
KL-1280-2033 B	Locking Pin for Crankshaft, Ø 7.9/11.9mm	1
KL-1280-202 A	Locking Pin for Crankshaft, Ø 6.9mm	1
KL-1280-203 A	Locking Pin for Injection Pump, Ø 4.9mm	1
KL-1280-204 A	Locking Pin for Crankshaft, Ø 4.9/3.9mm	1
KL-1280-206 A	Adjustment Tool for Timing Belt Tensioner, with 2 pins	1
KL-1280-205 A	Hex Screw, M6x45mm	1
KL-4990-1103	Plastic Storage Case	1

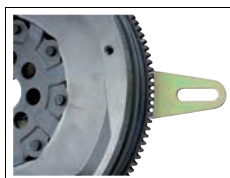


KL-0182-1 A

(Universal)

Flywheel Locking Tool

For detailed information, please refer to Chapter 6.6-58.



KL-0182-19 A

Flywheel Locking Tool

Suitable for use on Renault and Opel/Vauxhall 1.4, 2.0, 2.2, 2.3, 2.5 litre Diesel engines as found in Renault Laguna, Safrane, Espace etc. (Engine codes: G8T, G9T, G9U, H4JT, M9R, M9T)

Designed to lock the flywheel with the gearbox removed.

6



KL-1280-26 K

Locking Tool Set, Renault

Applicable to Renault, Dacia, Opel/Vauxhall, Ford, Nissan, Volvo petrol engines: 1.2 8V (D7F), 1.2 16V (D4F), 1.2 Turbo (D4Ft), 1.4 8V (E7J), 1.4 16V (K4J), 1.4 (K7J); 1.6 8V (K7M), 1.6 16V (K4M), 1.8 16V (F4P); 2.0 8V (F3R), 2.0 16V (F4R / F4rt / F7R / N7Q), 2.0 (M54R); 2.0 16V IDE (F5R), 2.5 20V (N7U); Diesel engines: 1.5 dCi (K9K);

Volvo engines: 1.8 16V (B 4184 S2 / S9), 1.9 T4 (B4194 T2), 2.0 16V (B 4204 S2), 2.0 T (B 4204 T3);

Ford: 2.5 (Duratec-ST /-VE /-RS).

as found in Twingo, Clio, Modus, Kangoo, Megane, Megane Scenic, Grand Scenic, Laguna, Espace, Safrane, Traffic, Avantime, Vel Satis as well as in Opel/Vauxhall Vivaro; Dacia Sandero, Logan; Nissan Micra, Note, Almera, Kubistar, Primastar; Volvo S40 I, V40; Ford Galaxy, Focus, Kuga, Mondeo, S-Max.

Scope of Delivery: KL-1280-26 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-205 A	Hex Screw, M6x45mm	1
KL-1280-206 A	Belt Tensioner Wrench with 2 Pins	1
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-1280-231 B	Setting Gauge for Camshafts	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-235 B	Tensioner Wrench for Idler Pulley	1
KL-1280-236 A	Locking Plate for Camshaft Sprockets, Renault	1
KL-1280-2371	Installation Tool, Ø 43mm	1
KL-1280-2372	Installation Tool, Ø 57.5mm	1
KL-1280-250	Setting Gauge for Camshaft	1
KL-1280-281 A	Locking Plate for Camshaft Sprockets	1
KL-1380-1011 A	Timing Belt Pre-Tensioning Tool	1
KL-1280-2690	Storage Case with Insert	1

This tool set is designed to lock/position engine shafts such as camshafts and crankshaft, to prevent camshaft sprockets from turning* while loosening or tightening the camshaft central screws. It also allows for the quick and easy installation of camshaft plugs. An indispensable tool set when replacing a timing belt or performing an engine repair.

*only the KL 1280-281 A

KL-1280-751 K Locking Tool Set, Renault

Applicable to Renault, Dacia, Nissan, Proton 1.2, 1.4 and 1.6 litre petrol engines as found in: Renault Clio II / III, Kangoo I / II, Logan, Megane, Modus, Thalia, Twingo I / II, Wind; Nissan Kubistar; Proton Savvy; Dacia Logan.

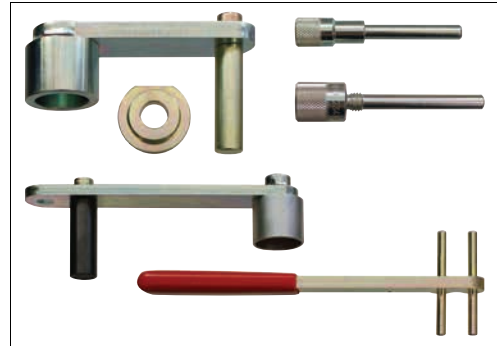
(Engine codes: D4F, D4F 702, D4F 704, D4F 706, D4F 708, D4F 712, D4F 714, D4F 716, D4F 722, D4F 728, D4F 730, D4F 740, D4F 742, D4F 764, D4F 772, D4F 774, D4Ft 780, D4Ft 782, D4Ft 784, D4Ft 786, D7F 702, D7F 703, D7F 704, D7F 706, D7F 708, D7F 710, D7F 720, D7F 722, D7F 726, D7F 744, D7F 746, D7F 764, D7F 766, D7F 800, D7F B700, D7F C701, E7J 626, E7J 634, E7J 635, E7J 780, K7J 710, K7M 710, K7M 744, K7M 746, K7M 850)

Designed for the locking/positioning of the crankshaft and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-751 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-206 A	Belt Tensioner Wrench with 2 Pins	1
KL-1380-1011 A	Timing Belt Pre-Tensioning Tool	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-7511	Timing Belt Pre-Loading Tool	1
KL-4990-1003	Plastic Storage Case	1



KL-1280-28 KB Locking Tool Set, Renault

Applicable to Renault, Dacia, Opel/Vauxhall, Nissan 1.4, 1.6, 1.8 and 2.0 litre petrol engines as found in Renault Aventime, Clio II / III, Espace IV, Kangoo, Laguna II / III, Logan, Megane I / II / III, Modus, Scenic I / II, Traffic II, Twingo II, Vel Satis; Nissan Kubistar, Primastar; Opel/Vauxhall Vivaro; Dacia Duster, Logan.

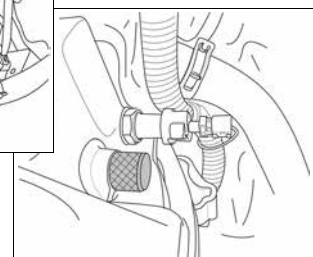
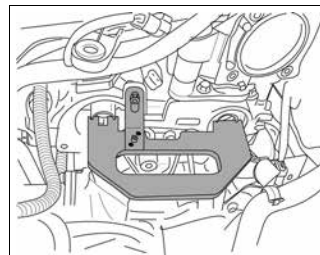
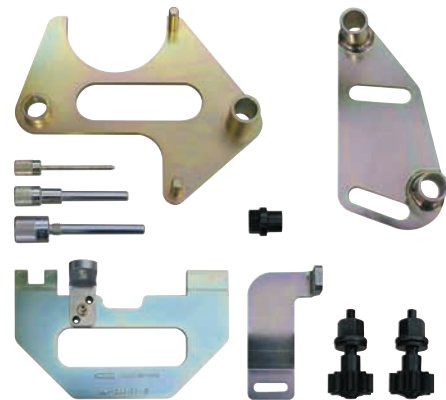
(Engine codes: F4P 720, F4P 722, F4P 770/771, F4P 772, F4P 773, F4P 774, F4P 775, F4R 712, F4R 713, F4R 714, F4R 715, F4R 720/722, F4R 730, F4R 732, F4R 740, F4R 740/741, F4R 741, F4R 744, F4R 746, F4R 770/771, F4R 790, F4R 791, F4R 792, F4R 820, F4R 830, F4R 832, F4Rt 720/722, F4Rt 762/763, F4Rt 764/765, F4Rt 766, F4Rt 767, F4Rt 774, F4Rt 776, F4Rt 784, F4Rt 786, F4Rt 787, F4Rt 794/795, F4Rt 796/797, F4Rt 800, F4Rt 802, F4Rt 810, F4Rt 811, F4Rt 813, F4Rt 867, F4Rt 870, F4Rt 874, F4Rt 886, F4Rt 887, F4Rt 896/897, K4J, K4J 700, K4J 710/711, K4J 712, K4J 713, K4J 714, K4J 715, K4J 730, K4J 732, K4J 740, K4J 750, K4J 770, K4J 780, K4M 606, K4M 690, K4M 696, K4M 700, K4M 701, K4M 704, K4M 706, K4M 708, K4M 709, K4M 710/711, K4M 712, K4M 714, K4M 716, K4M 718, K4M 730, K4M 732, K4M 734, K4M 740, K4M 742, K4M 743, K4M 744/745, K4M 746, K4M 748, K4M 750/752/753, K4M 752/753, K4M 760, K4M 760/761, K4M 761, K4M 764, K4M 766, K4M 782, K4M 790, K4M 791, K4M 792, K4M 794, K4M 800, K4M 800/801, K4M 801, K4M 802, K4M 804, K4M 812/813, K4M 824, K4M 830, K4M 831, K4M 834, K4M 846, K4M 848, K4M 854, K4M 858, K4M 862, K4M 866)

Designed for the locking/positioning of camshafts, crankshaft and V-ribbed belt tensioners. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-28 KB Locking Tool Set, Renault

Part No.	Description	Qty
KL-0482-462 A	Locking Pin, Ø 4mm	1
KL-1280-231 B	Setting Gauge for Camshaft	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-236 A	Locking Plate for Camshaft Sprockets, Renault	1
KL-1280-281 A	Locking Plate for Camshaft Sprockets	1
KL-1280-2690	Plastic Storage Case	1





KL-1280-23 KB

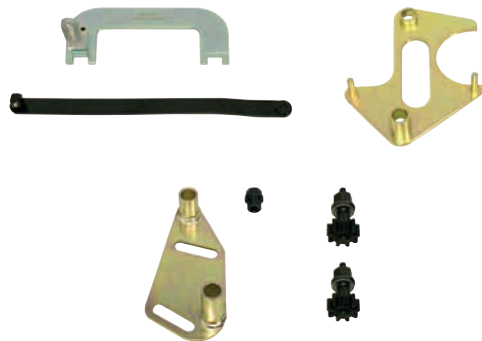
Locking Tool Set for Timing Belt,
Renault 1.4, 1.6, 1.8, 2.0 16V and 1.5 dCi

Applicable to Renault 1.4, 1.6 16V (K4J / K4M [98-]), 1.8, 2.0 16V (F4P / F4Rt / F4R [98-]) TwinCam petrol engines, and 1.5 dCi (K9K) Diesel engines; as installed in Renault Clio, Clio Sport, Modus, Megane / Scenic, Kangoo, Espace, Laguna; and Nissan Micra, Almera, Kubistar, Cube, Juke, Note, NV200, Qashqai and Tiida; Dacia 1.5 Duster and Logan; Opel/Vauxhall Vivaro; Suzuki 1.5 Jimny.

Tool set for the locking/positioning of engine shafts such as camshafts and crankshaft; required when changing a timing belt or during an engine repair.

Scope of Delivery: KL-1280-23 KB Locking Tool Set for Timing Belt

Part No.	Description	Qty
KL-1280-231 B	Setting Gauge for Camshafts	1
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-234 B	Locking Pin, M10/Ø 7.9mm	1
KL-1280-2390 B	Plastic Storage Case	1



KL-1280-280

Upgrade Kit for KL-1280-23 KB
(forms KL-1280-28 KA)

Applicable to Renault 1.4 16V (K4J); 1.6 16V (K4M); 1.8 16V (F4P); 2.0 16V (F4R) and 2.0 16V IDE (F5R 700, 701, 740) TwinCam petrol engines. e.g. Renault Megane, Laguna, Laguna II.

This tool set is designed to prevent camshaft sprockets from turning while loosening or tightening the camshaft central screws, as well as to lock and position camshafts. It can also be used for the removal and installation of the idler pulley. An indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1280-280 Upgrade Kit

Part No.	Description	Qty
KL-1280-235 B	Tensioner Wrench for Idler Pulley	1
KL-1280-236 A	Locking Plate for Camshaft Sprockets	1
KL-1280-281 A	Locking Plate for Camshaft Sprockets	1
KL-1280-250	Setting Gauge for Camshaft	1

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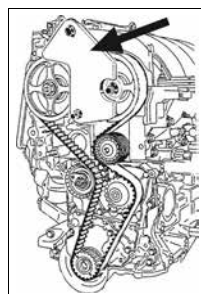


KL-1280-235 B

Tensioner Wrench for Idler Pulley

Suitable for use on Renault 1.4 and 1.6 TwinCam (DOHC) petrol engines (engine codes: K4J, K4M) as found in Clio III, Megane/Scenic II, Laguna II, Modus and Kangoo. Volvo 2.4 and 2.5 engines (engine codes: B5244S4, B5244S5, B5244S7, B5254T3, B5254T7) as found in C30, C70, S40 and V50. Proton Savvy 1.2 (engine code: D4F).

This tool is required for the removal and installation of the idler pulley, e.g. when replacing a timing belt or performing an engine repair. For example, included in tool set **KL-1280-280**.



KL-1280-236 A

Locking Plate for Camshaft Sprockets,
Renault

Suitable for use on Renault 1.4 and 1.6 litre TwinCam petrol engines (engine codes: K4J, K4M) as found in Clio III, Megane/Scenic II, Laguna II, Modus and Kangoo.

This tool is used to counter-hold the camshaft sprockets while loosening/tightening the camshaft central screw, e.g. when replacing a timing belt or during an engine repair.

KL-1280-237 Installation Tool Set, Renault

Suitable for use on Renault 1.4, 1.6, 1.8 and 2.0 16V TwinCam petrol engines as found in Renault Clio, Avantime, Laguna, Megane, Modus, Scenic, Trafic, Twingo, Vel Satis, Kangoo and Espace; Dacia Duster and Logan; Nissan Primastar; Opel/Vauxhall Vivaro. (Engine codes: K4J, K4M, F4P, F4R; F4Rt, F5R).

These tools allow for the quick and easy installation of camshaft plugs. They are required when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-237 Installation Tool Set, Renault

Part No.	Description	Qty
KL-1280-2371	Installation Tool, Ø 43mm	1
KL-1280-2372	Installation Tool, Ø 57.5mm	1



KL-1280-22 A Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

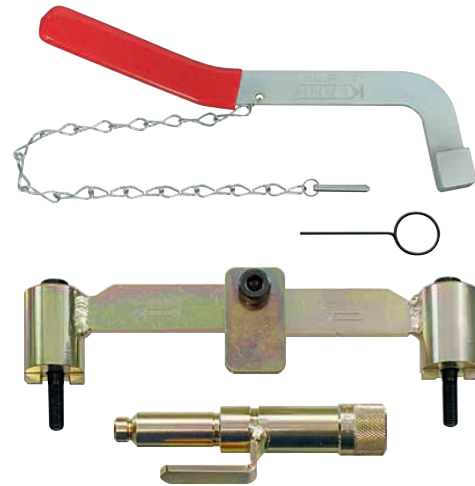
Applicable to Renault and Volvo TwinCam petrol engines. Renault 2.0 16V (N7Q) and 2.5 20V (N7U) as found in Laguna and Safrane. Volvo 1.8 16V (B4184 S2/S9), 1.9 T4 (B4194 T2) and 2.0 16V / T (B4204 S2/T3) as found in S40 laund V40.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft when changing a timing belt or during engine repairs.

Scope of Delivery:

KL-1280-22 A Locking Tool Set for Timing Belt

Part No.	Description	Qty
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-0180-3019	Retaining Pin for Hydraulic Tensioner Pulley, Ø 1.9mm	1
KL-1280-224 A	Tensioner Spanner with Retaining Pin for Auxiliary Belt	1



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KL-1280-25 KA Locking Tool Set, Renault 2.0

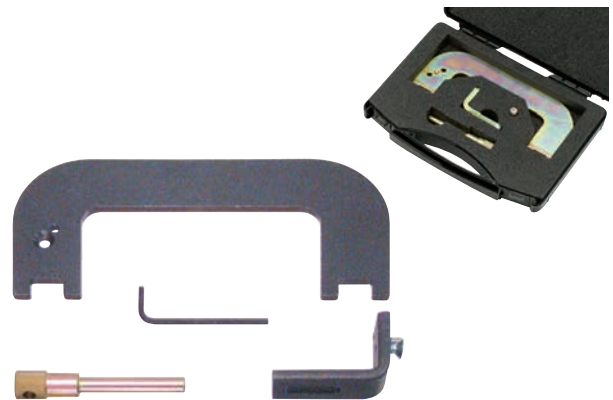
Applicable to Renault 2.0 16V IDE TwinCam petrol engines as found in Renault Megane, Laguna etc. (Engine codes: F5R 700, 701, 740)

This tool set is designed for the locking/positioning of engine shafts such as camshafts and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-1280-25 KA Locking Tool Set, Renault 2.0

Part No.	Description	Qty
KL-1280-250	Setting Gauge for Camshafts	1
KL-1280-233 B	Locking Pin, Ø 7.9/1.9mm	1
KL-1280-2590 A	Storage Case with Insert	1

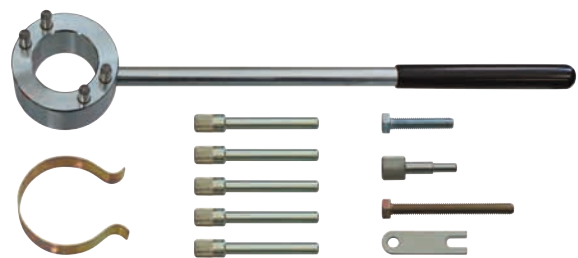


KL-1380-25 A Locking Tool Set, PSA

Applicable to PSA (Citroën, Peugeot), Lancia and Renault 3.0 litre petrol engines as found in: Peugeot 406, 407, 607; Renault Avantime, Laguna II; Citroën C5, C6, C8; Lancia Phedra.

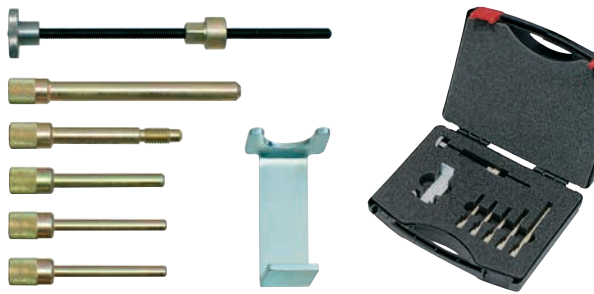
(Engine codes: ES9A, ES9J4S, ES9J4S/L5, L7X, L7X 731, L7X 733, XFU, Xfv, XFW, XFX)

Designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner. The kit also includes tools to counter-hold the camshafts and to retain the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.



For scope of delivery, please refer to chapter 6.6-81

KL-1780-16 K Locking Tool Set, Honda



(Engine codes: 20T2N, N22A1, N22A2, etc.)

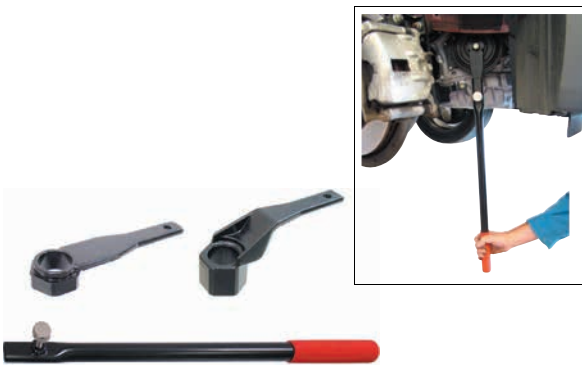
Suitable for the Honda/Rover 1.6 Vti/VTEC, 1.8, 2.0, 2.2, 2.2 VTEC and the 2.3i petrol engines, and 2.0 TD, 2.0 Tdi Diesel engines as found in Honda Civic, Integra R, Accord, Prelude and Shuttle (1987-2004); Rover 216/416GTi and 600 Series, and Landrover Freelander.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as for locking and adjusting the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1780-16 K Locking Tool Set, Honda

Part No.	Description	Qty
KL-1780-102 A	Locking Pin for Injection Pump, Ø 9.4mm	1
KL-1780-103 A	Locking Pin, Ø 6.7mm	1
KL-1380-2213 A	Locking Pin, Ø 4.9mm	2
KL-1780-107 A	Locking Pin, Ø 8mm	1
KL-1780-108 A	Tensioner Spindle for Timing Belt	1
KL-1780-140 A	Fixing Clip for Tensioning Element	1
KL-1780-1690	Plastic Storage Case	1

KL-1780-15 A Reaction Wrench Set, Honda



Suitable for the Honda 1.2, 1.4, 1.7, 1.8, 2.0, 2.2, 2.3, 3.5 and 2.2 CDTi engines as found in Honda Accord, City, Civic, CR-V, FR-V, Insight, Jazz, Legend, Odyssey, Prelude, S2000, Shuttle, Stream. (Engine codes: N22A1, N22A2)

This tool set is designed to counter-hold the crankshaft pulley while loosening or tightening the crankshaft central screw, e.g. during engine repairs.

Scope of Delivery: KL-1780-15 A Reaction Wrench Set, Honda

Part No.	Description	Qty
KL-1780-1501 A	Lever	1
KL-1780-1502 A	Reaction Wrench, (waf) 50mm, angled	1
KL-1780-1503 A	Reaction Wrench, (waf) 50mm	1

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KL-1780-10 KA Locking Tool Set for Timing Belt, Rover



(Engine codes: 10P, 14K16, 14K2A/D, 14K4C/D, 14K4F, 15P, 16K16, 16P, 18K16, 20HD, 20HD-M8, 20HD-M16, 20HD-M16, 20M4, 20M4G, 20T, 20T2N, 20T2R, 20T4, B16A1, B16A2, B18B2, B18C2, B18C6, B18C7, B20A1, B20A2, B20A5, B20A6, B20A7, B20A8, B20A9, D16A8, D16A9/Z4, F18A2, F18A3, F18B2, F18B4, F20A2, F20A3, F20A4, F20A5, F20A6, F20A7, F20A8, F20B3, F20B5, F20B6, F20B7, F20Z1, F20Z2, F20Z3, F22A1, F22A3, F22A5, F22A7, F22A8, F22B1, F22B3, F22B5, F22B6, F22B8, F22Z2, F23A1, F23A7, F23Z2, F23Z5, H22A1, H22A2, H22A4, H22A5, H22A7, H22A8, H23A1, H23A2, H23A3, K1.8, K16, K16-1.1, K16-1.4, K16-1.4+, K16-1.6, K16-1.8, K18, MDi, MDi/BB, TN44)

Suitable for the Rover Diesel and petrol engines (inclusive of Di and 16V) as found in Austin Maestro, Montego; Hoda Accord, Civic, Integra, Odyssey, Prelude, Shuttle; Land Rover Defender, Discovery, Freelander; LDV 200 Series, Sherpa; MG Express, MGF, TF, ZR, ZS, ZT, ZT-T; Rover 25, 45, 75, 100 Series, 200 Series, 400 Series, 600 Series, 800 SeriesCDV, Metro, Streetwise.

Designed for the locking/positioning of the flywheel, engine shafts such as camshafts, balance shaft, and crankshaft. Also includes a tool to adjust the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery: KL-1780-10 KA Locking Tool Set for Timing Belt, Rover

Part No.	Description	Qty
KL-1780-101 A	Locking Pin, Ø 6.6mm	2
KL-1780-102 A	Locking Pin for Injection Pump, Ø 9.4mm	1
KL-1380-2211 A	Locking Pin for Injection Pump, Ø 6.0mm	1
KL-1380-2215 A	Locking Pin (angled) for Flywheel, Ø 7.7mm	1
KL-1480-11	Locking Pin (angled) for Flywheel, Ø 6.0mm	1
KL-1480-18	Hex Screw, M8x40mm	3
KL-1780-103 A	Locking Pin, Ø 6.7mm	2
KL-1380-2213 A	Locking Pin, Ø 4.9mm	2
KL-1780-105 A	Locking Tool for Camshafts	1
KL-1780-106 A	Locking Tool for Camshafts	1
KL-1780-107 A	Locking Pin for Balance Shaft, Ø 8.0mm	1
KL-1280-205 A	Hex Screw M6x45mm	1
KL-1380-2230 A	Adjuster for Timing Belt Tensioner, 8 mm, square	1
KL-1780-108 A	Tensioner Spindle for Timing Belt	1
KL-1780-1090 A	Storage Case with Insert	1

KL-1780-12 KA

Locking Tool Set, Rover 45 V6, 75 V6

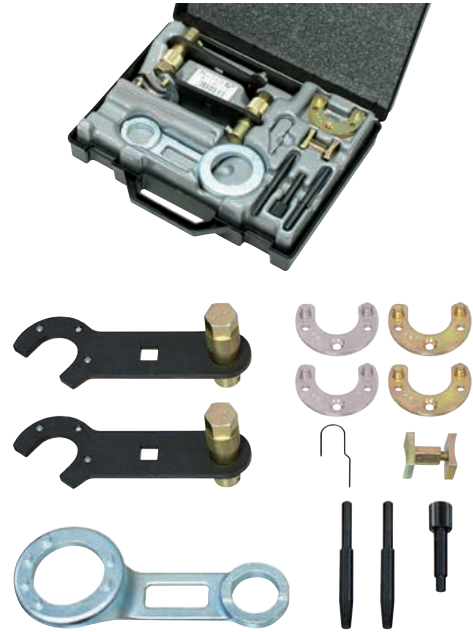
Applicable to Rover 2.0 and 2.5 V6 TwinCam engines as found in Rover 45, 75, 800 Series; Land Rover Freelander; MG ZR, ZS, ZT/ZT-T. (Engine code: KV6)

Designed for the locking/positioning of camshafts and the timing belt tensioner when replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-1780-12 KA Locking Tool Set, Rover 45 V6, 75 V6

Part No.	Description	Qty
KL-1780-121	Locking Tool for Camshaft (2 pieces)	1
KL-1780-122	Adaptor for Locking Tool for Camshaft (silver) (2 pieces)	1
KL-1780-123	Adaptor for Locking Tool for Camshaft (golden) (2 pieces)	1
KL-1380-2226 A	Retaining Pin	1
KL-1780-124	Adjustment Tool for Rear Camshaft Sprockets	1
KL-1780-125	Spreader Tool for Rear Camshaft Sprockets	1
KL-1780-126	Mounting Pin for Rear Camshaft Sprockets (2 pieces)	1
KL-1780-127	Locking Pin, Ø 7.5mm	1
KL-1780-1290	Plastic Storage Case	1

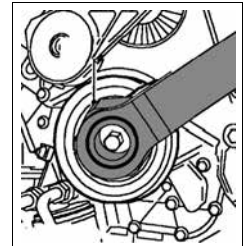
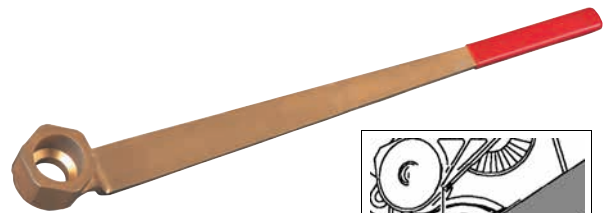


KL-1780-13

Reaction Wrench for Crankshaft

Suitable for use on Rover 2.0 and 2.5 V6 TwinCam engines (KV6) as found in Rover 45, 75 and Land Rover Freelander.

Designed to counter-hold the crankshaft pulley while loosening or tightening the crankshaft central screw (for example when replacing a timing belt).



6

KL-0482-45 KA

Locking Tool Set, Opel/Vauxhall 1.3 CDTi

Applicable to Opel/Vauxhall (Suzuki/Subaru) 1.3 litre CDTi/DDiS Diesel engines (Engine codes: A13DTC, A13DTE, A13DTR, D13A, LDV/A13DTC, LSF/A13DTE, Z13DT, Z13DTH, Z13DTI, Z13DTJ, Z13DTR) as found in Corsa, Swift etc.

Applicable to Fiat (Alfa/Ford/Lancia/Citroën/Peugeot) 1.3 litre engines. (Engine codes: 169A1.000; 169A1.000 (FD4)/BAAA/B; 169A5.000; 188A8.000; 188A9.000; 199A2.000; 199A3.000; 199A9.000; 199B1.000; 199B1.0000; 199B2.000; 199B4.000; 223A9.000; 263A2.000; 263A2.000; F13DTE5 (FHZ))

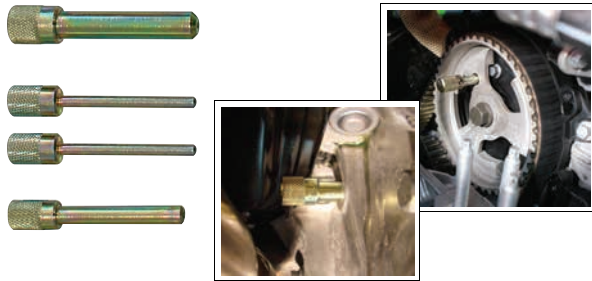
This tool set is designed for the locking/positioning of engine shafts such as camshaft and crankshaft, as well as of the timing chain tensioner while replacing a timing chain or during an engine repair.

Scope of Delivery:

KL-0482-45 K Locking Tool Set, Opel/Vauxhall 1.3 CDTi

Part No.	Description	Qty
KL-0482-450 A	Locking Tool for Camshaft (2 pcs.)	1
KL-0482-451 A	Locking Pin for Crankshaft, Ø 6mm	1
KL-0482-434	Retaining Pin, Ø 2.4mm	1
KL-0482-4590 A	Plastic Storage Case	1





(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTED, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

KL-0680-220 B

Set of Locking Pins, Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDiS; Toyota 1.0 VVT, 1.4 Di, 1.4 HDI; Volvo 1.6 D Diesel engines.

These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1

KL-1280-702 K

Locking Tool Set, Renault

Applicable to Mitsubishi, Nissan, Opel/Vauxhall, Renault and Suzuki 1.9 and 3.0 litre Diesel engines as found in: Renault Clio II, Espace IV, Kangoo, Laguna II, Master II, Megane I / II / III, Scenic I / II / III / RX4, Traffic II; Opel/Vauxhall Movano-A, Vivaro; Mitsubishi Carisma, Space Star; Nissan Interstar, Primastar, Navara; Suzuki Grand Vitara; Volvo S40/V40.

Designed for the locking/positioning of the crankshaft, injection pump and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-702 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1

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(Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, VG30E)

KL-1280-21 KA

Injection Pump Adjustment Tool, Renault 1.9 D

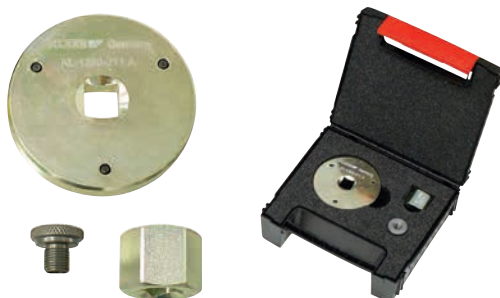
Applicable to Renault, Mitsubishi, Opel/Vauxhall and Volvo 1.9 litre direct-injection Diesel engines with adjustable injection pump sprocket as found in Renault Megane/Scenic, Kangoo; Mitsubishi Carisma, Space Star; Opel/Vauxhall Arena; Nissan Interstar, Primastar and Volvo S40/V40.

This injection pump adjustment tool is used in conjunction with the KL-0129-1 A tool set and the corresponding locking tools for adjusting the injection pump timing relative to the crankshaft (start-of-delivery setting).

Scope of Delivery:

KL-1280-21 KA Injection Pump Adjustment Tool, Renault 1.9 D

Part No.	Description	Qty
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-0129-2105 A	Adaptor for Bosch Pumps, M10x1 to M8x1	1
KL-1280-2190	Plastic Storage Case	1



(Engine codes: F8Q, F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, D 4192 T, D 4192 T2)

KL-2580-10 K Locking Tool Set, Mazda

Applicable to Ford, Citroën, Peugeot, Mazda, Suzuki, Toyota, Volvo 1.0, 1.25, 1.4, 1.6, 1.7, 1.8 and 2.0 litre petrol engines and for the 1.4, 1.6, 1.8 and 2.0 litre engines as found in Mazda 121, 2, 3, 6, Tribute; Ford C-Max, Cougar, Courier, Escort, Fiesta, Focus, Fusion, Galaxy, Mondeo, Orion, P100, Puma, S-Max, Sierra, Toureno, Transit; Opel/Vauxhall Agila, Corsa; Citroën Berlingo, C1, C2, C3, C4, C5, Xsara; Fiat Scudo; Peugeot 206, 307, 407; Suzuki C1; Toyota Aygo; Volvo C30, S40, V50 etc.

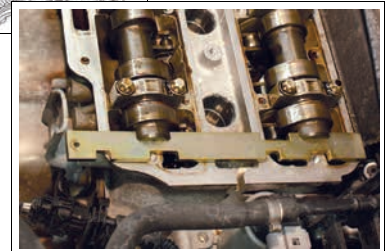
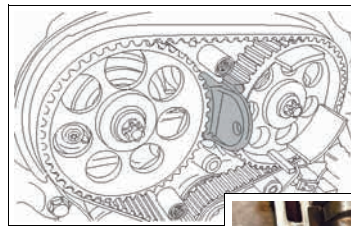
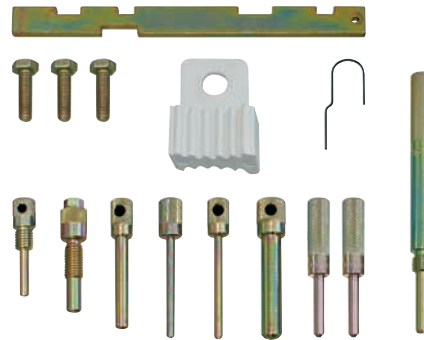
(Engine codes: 8HV, 8HW, 8HX, 9HX, 9HZ, BHDA/B, BHPA, C9DA/B/C, DHA, DHB, DHC, DHD, DHE, DHF, DHG, DV4TD, DV4TED4, DV6ATED4, DV6TED4, F6JA/B/C, F8JA/B, F9DA/B, FHA, FHE, FUJA/B, FXA/B, FXDA/C, FXDB/D, FXJA/B, FYDA/C, FYDB/D, FYDH, FYJA/B, G8DA/B, HCPA, HHDA, HWDA, HXDA, KKDA, L1T, L1V, M7JA/B, MHA, RFA, RFD, RFK, RFL, RFN, RTB, RTC, RTH, RTJ, RTK)

This tool set is designed for the locking/positioning of camshafts, crankshaft, injection pump shaft, as well as of the timing belt tensioner. An indispensable tool kit when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-2580-10 K Locking Tool Set, Mazda

Part No.	Description	Qty
KL-0680-10	Locking Pin for Crankshaft	1
KL-0680-14 A	Locking Pin, Ø 6mm	2
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1
KL-0680-18	Locking Pin for Crankshaft	1
KL-1380-2226 A	Retaining Pin for Tensioner Pulley, Ø 1.5mm	1
KL-2580-101	Locking Tool for Camshafts, Mazda 1.8 and 2.0	1
KL-1480-17	Hex Screw, M8x30mm	3
KL-2580-1090	Plastic Storage Case	1



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KL-0680-27 A Locking Tool Set, Ford

Applicable to Ford and Mazda 1.25, 1.4, 1.6, 1.7, 1.8, 2.0, 2.3 and 2.5 litre TwinCam Duratec petrol engines (timing belt/timing chain), as installed in: Ford C-Max, Courier, Cougar, Fiesta, Fusion, Focus, Galaxy, Maverick, Mondeo, Puma, S-Max, Tourneo Connect and Transit Connect; Mazda 121, 2, 3, 323, 5, 6, MPV, Tribute and Xedos 9.

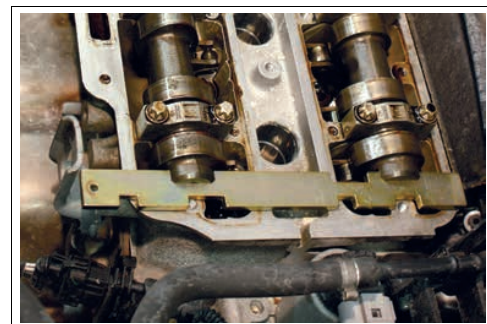
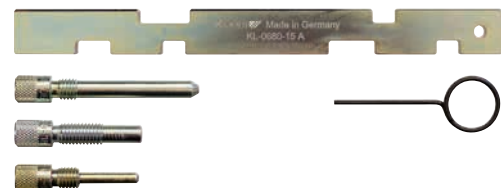
(Engine codes: ALDA, AOBA, AOBC, AODA, AODB, AODE, AOWA, AOWB, BP, CDBB, CGBA/B, CHBA/B, CJBA/B, CSDA, CSDB, E5FA, E5FC, E5SA, E5SB, E5DB, E5DC, E5DD, E5DF, E5DB, EYDC, EYDD/E, EYDF, EYDG, EYDI, EYDJ, EYDL, EYPA, EYPC, F8JA, F8JB, FE, FP, FS, FUJA, FUJB, FXJA, FXJA/B, FYJA, FYJB, FYJC, GZ, GZFA, GZFB, GZFC, HMDA, KL, L3, L5, L8, LF, MZR 1.8 (L8), N4JB, Q7DA, QQDA, QQDB, QQDC, SEBA, SEWA, SYDA, TBBA, TBBB, TBWA, TBWB, TNBA, YF, ZVSA)

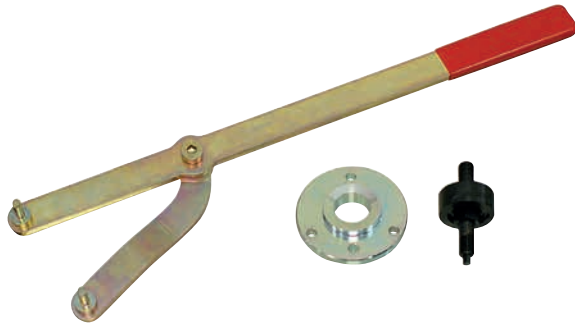
This tool set is designed for the locking/positioning of engine shafts such as camshaft, crankshaft and the timing belt tensioner. It is required when replacing timing belts/ timing chains and for engine repairs.

Scope of Delivery:

KL-0680-27 A Locking Tool Set, Ford

Part No.	Description	Qty
KL-0680-15 A	Setting Gauge for Camshafts	1
KL-0680-17	Locking Pin for Crankshaft	1
KL-0680-16 A	Locking Pin for Crankshaft	1
KL-0680-18	Locking Pin for Crankshaft	1
KL-0180-3024	Retaining Pin, Ø 2.4mm	1





(Engine codes: E5FA, E5FC, E5SA, E5SB, QJBA, ZVSA etc.)

KL-0680-20 A

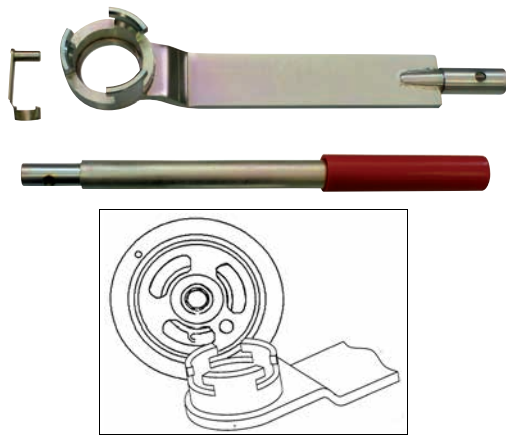
Vibration Damper Installation/Removal Tool, Ford/Mazda

Applicable to Ford Zetec engines as found in Ford Fiesta 1.25, 1.4, 1.6 16V, Puma 1.4, 1.6, 1.7 16V, Focus 2.2, Galaxy 2.0, 2.3, Transit 2.3 and Mazda 121 1.25 16V.

Designed for the removal and installation of vibration dampers. Required for engine repairs or when replacing a timing belt.

Scope of Delivery: KL-0680-20 A Vibration Damper Installation/Removal Tool

Part No.	Description	Qty
KL-0680-201 A	Reaction Wrench with Pin, Ø 7.5mm	1
KL-0680-202 A	Extraction Plate for Crankshaft Vibration Damper	1
KL-0680-203 A	Installation Tool for Crankshaft Pulley	1



(Engine codes: B4184S11, B4184S8, B4204S3, B4204S4, L3 Turbo, LF, LF (MZR DISI), MZ-CD 1.6 (Y6), MZR 1.3 (ZJ), MZR 1.5 (ZY), MZR 1.8 (L8), MZR 2.0 (LF), ZJ, ZY)

KL-0184-061

Reaction Wrench, Ford

Applicable to Ford, Mazda, Volvo 1.3, 1.5, 1.6, 1.8, 2.0 and 2.3 litre engines; as installed in Ford Focus/C-Max, Mondeo, S-Max, Galaxy; Mazda 2, 3, 5, 6, CX-7, MX-5; Volvo C30, S40, V50, V70, S80.

This tool is designed to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw. It is required when replacing timing belts and for engine repairs.

Technical Data:

Overall length (of assembled tool):	754mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm

Scope of Delivery: KL-0184-061 Reaction Wrench, Ford

Part No.	Description	Qty
KL-0184-0610	Reaction Wrench (Base Tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1

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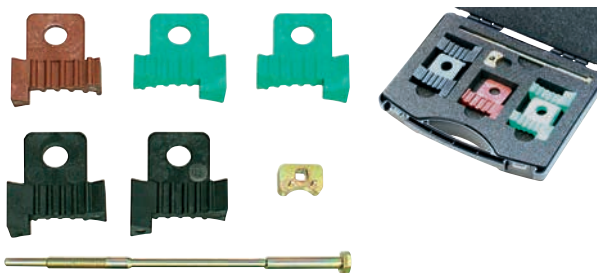


KL-2282-10

Reaction Wrench

Suitable for use on Subaru engines: 1.6, 2.0 and 2.5 litre (engine codes: EJ161, EJ20, EJ201, EJ251) as found in Forester 1998-2003, Legacy 1998-2006, Impreza 1998-2000. Note: Not suitable for the 2.0 litre Turbo engines with variable valve timing.

This tool is designed to counter-hold the camshaft pulley while loosening or tightening the camshaft central screw. It is required when replacing a timing belt or for engine repairs.



KL-2480-10 K

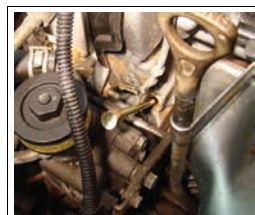
Locking Tool Set, Mitsubishi/Hyundai

Applicable to Mitsubishi/Hyundai 4-cylinder 2.0 16V and V6, 2.5 and 3.0 24V TwinCam petrol engines.

An indispensable tool set for locking the camshafts as well as for tensioning and adjusting the timing belt tensioner.

Scope of Delivery: KL-2480-10 K Locking Tool Set, Mitsubishi/Hyundai

Part No.	Description	Qty
KL-2480-101	Locking Tool Set, Mitsubishi 2.0 GTI	1
KL-2480-102	Locking Tool Set, Mitsubishi 2.5 24V and 3.0 24V	1
KL-2480-103	Locking Tool for Camshafts, Mitsubishi	1
KL-2480-110	Locking Pin for Tensioner Pulley	1
KL-2480-120	Adjuster for Timing Belt Tensioner	1
KL-2480-1090	Plastic Storage Case	1



KL-0780-10 KA Locking Tool Set, Volvo (Diesel engines)

Applicable to Volvo 1.6, 1.9, 2.0 and 2.4 litre Diesel engines as found in: C30, C70, S40, S60, S80, V40, V50, V60, V70, XC60, XC70, XC90.

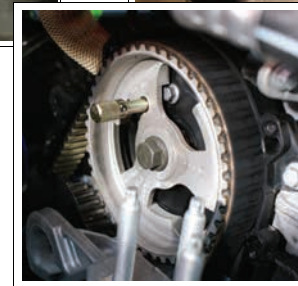
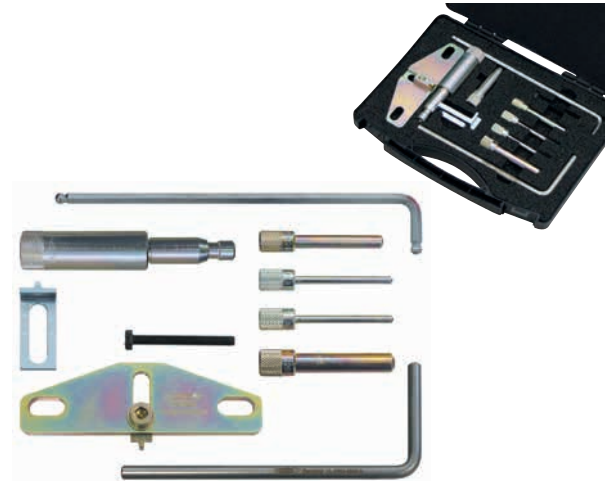
(Engine codes: D4162T, D4164T, D4192T3, D4192T4, D4204T, D4204T2, D5204T, D5204T2, D5204T3, D5204T5, D5244T, D5244T10, D5244T11, D5244T13, D5244T14, D5244T15, D5244T16, D5244T17, D5244T18, D5244T19, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7, D5244T8, D5244T9)

Designed for the locking/positioning of camshafts, crankshaft, timing belt- and auxiliary drive belt (V-ribbed belt) tensioners, and flywheel. The kit also includes a tool to adjust the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0780-10 KA Locking Tool Set, Volvo (Diesel engines)

Part No.	Description	Qty
KL-0280-2202 A	Special Hexagon Socket Key	1
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 8mm	1
KL-0680-2302 A	Locking Pin (angled)	1
KL-1380-2343	Hex Screw, M6x55mm	1
KL-0780-1001	Locking Tool for Flywheel	1
KL-1380-231 A	Locking Tool for Flywheel	1
KL-0780-1002	Locking Pin, Ø 14.9/11mm	1
KL-0780-1003	Locking Pin, Ø 12/10.5mm	1
KL-0780-1090	Plastic Storage Case	1



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KL-0680-220 B Set of Locking Pins, Citroën/Mazda/Peugeot/Suzuki/Toyota/Volvo

Applicable to Citroën 1.4, 1.4 Hdi, 1.6 Hdi, 2.0; Fiat 1.6 JTD; Ford 1.4 TDCi, 1.6 TDCi; Mazda 1.4 TDCi, 1.6 D, 1.6 MZ-CD; Peugeot 1.4 Hdi, 1.6 Hdi; Suzuki 1.4 DDiS; Toyota 1.0 VVT, 1.4 Di, 1.4 HDI; Volvo 1.6 D Diesel engines.

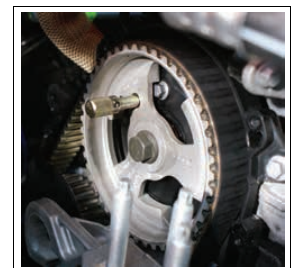
(Engine codes: 8HP, 8HR, 8HS, 8HT, 8HV, 8HW, 8HX, 8HY, 8HZ, 9HF, 9HH, 9HJ, 9HL, 9HM, 9HN, 9HP, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, D4162T, D4164T, DV4C, DV4TD, DV4TED, DV4TED4, DV6, DV6C, DV6ATED4, DV6AUTED4, DV6BTED4, DV6BUTED4, DV6D, DV6DTED, DV6DU, DV6ETED, DV6TED4, DV6TED4B, DV6TED4BU, DV6UC, DV6UTED4, F6J4, F6JA, F6JB, F6JC, F6JD, G8DA, G8DB, G8DD, GPDA, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, MZ-CD 1.6 (Y6), T1BA/B/C, TZJA, Y6)

These pins are used for the locking/positioning of engine shafts such as camshaft, injection pump shaft and crankshaft when replacing a timing belt or during an engine repair.

Scope of Delivery:

KL-0680-220 B Set of Locking Pins

Part No.	Description	Qty
KL-0680-2201 A	Locking Pin, Ø 11mm	1
KL-0680-2202 A	Locking Pin, Ø 4.5mm	2
KL-0680-2203 A	Locking Pin, Ø 7.5mm	1





KL-1280-702 K

Locking Tool Set, Renault

Applicable to Mitsubishi, Nissan, Opel/Vauxhall, Renault and Suzuki 1.9 and 3.0 litre Diesel engines as found in: Renault Clio II, Espace IV, Kangoo, Laguna II, Master II, Megane I / II / III, Scenic I / II / III / RX4, Traffic II; Opel/Vauxhall Movano-A, Vivaro; Mitsubishi Carisma, Space Star; Nissan Interstar, Primastar, Navara; Suzuki Grand Vitara; Volvo S40/V40.

(Engine codes: F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W722, VG30E)

Designed for the locking/positioning of the crankshaft, injection pump and timing belt tensioner. Kit also includes tools to stretch/pre-set the tension on the timing belt. An indispensable tool set when changing a timing belt or performing an engine repair.

Scope of Delivery:

KL-1280-702 K Locking Tool Set, Renault

Part No.	Description	Qty
KL-1280-233 B	Locking Pin, Ø 7.9/11.9mm	1
KL-1280-240 B	Timing Belt Pre-Tensioning Tool	1
KL-1280-241 A	Hex Screw, M6x60mm	1
KL-1280-2010	Locking Tool for Injection Pump	1
KL-1280-2490 B	Plastic Storage Case	1

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KL-1280-21 KA

Injection Pump Adjustment Tool, Renault 1.9 D

Applicable to Renault, Mitsubishi, Opel/Vauxhall and Volvo 1.9 litre direct-injection Diesel engines with adjustable injection pump sprocket as found in Renault Megane/Scenic, Kangoo; Mitsubishi Carisma, Space Star; Opel/Vauxhall Arena; Nissan Interstar, Primastar and Volvo S40/V40.

This injection pump adjustment tool is used in conjunction with the KL-0129-1 A tool set and the corresponding locking tools for adjusting the injection pump timing relative to the crankshaft (start-of-delivery setting).

Scope of Delivery:

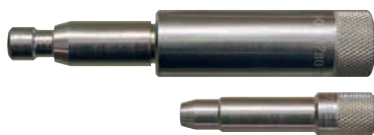
KL-1280-21 KA Injection Pump Adjustment Tool, Renault 1.9 D

Part No.	Description	Qty
KL-1280-211 A	Adjustment Tool (3 Pins)	1
KL-1280-212 A	Special Socket, Size (waf) 27mm	1
KL-0129-2105 A	Adaptor for Bosch Pumps, M10x1 to M8x1	1
KL-1280-2190	Plastic Storage Case	1

(Engine codes: F8Q, F8Q 622, F8Q 630, F8Q 632, F8Q 662, F8Q 790, F9Q, F9Q1, F9Q2, F9Q 650, F9Q 660, F9Q 664, F9Q 670, F9Q 674, F9Q 680, F9Q 690, F9Q 731, F9Q 732, F9Q 733, F9Q 736, F9Q 740, F9Q 744, F9Q 748, F9Q 750, F9Q 751, F9Q 752, F9Q 754, F9Q 755, F9Q 758, F9Q 759, F9Q 760, F9Q 762, F9Q 770, F9Q 772, F9Q 774, F9Q 780, F9Q 782, F9Q 790, F9Q 800, F9Q 803, F9Q 804, F9Q 808, F9Q 812, F9Q 814, F9Q 818, F9Q 820, F9Q 826, F9Q 870, F9Q 872, F9Q B2, F9Q W772, D 4192 T, D 4192 T2)

KL-0780-701

Locking Tool Set, Volvo



Applicable to Volvo 2.0 and 2.4 litre Diesel engines as found in: C70, S40, S60, S80, V50, V60, V70, XC60, XC70, XC90.

For the locking/positioning of engine shafts such as camshaft and crankshaft. An indispensable tool set when replacing a timing belt or performing an engine repair.

Scope of Delivery:

KL-0780-701 Locking Tool Set, Volvo

Part No.	Description	Qty
KL-0780-1002	Locking Pin, Ø 14.9/11mm	1
KL-0780-1003	Locking Pin, Ø 12/10.5mm	1

(Engine codes: D5204T, D5204T2, D5204T3, D5204T5, D5244T, D5244T10, D5244T11, D5244T13, D5244T15, D5244T17, D5244T18, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7)

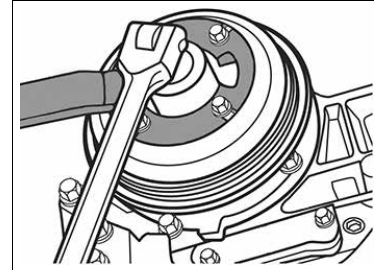
KL-0780-30

Counter-Holding Tool, Crankshaft

Applicable to Ford 2.5 and Volvo 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5, 2.8 and 2.9 litre 4- and 5-cylinder petrol engines, and 2.0 and 2.4 litre 5-cylinder Diesel engines. Fitted to: Ford Focus, Galaxy, Kuga, Mondeo, S-MAX and Volvo C30, C70, S40, S60, S70, S80, V40, V50, V70, XC70, XC90.

(Engine codes: Ford HUBA, HUWA, HYDA, HYDB, JZDA, LCBD; Volvo B4164S, B4184S, B4194T, B4204S, B4204T, B5204T3, B5204T4, B5204T5, B5234FS, B5234T3, B5234T7, B5234T8, B5234T9, B5244S, B5244S2, B5244S4, B5244S5, B5244S7, B5244SG, B5244SG2, B5244T, B5244T2, B5244T3, B5244T4, B5244T5, B5244T7, B5254FS, B5254T, B5254T10, B5254T11, B5254T2, B5254T3, B5254T4, B5254T5, B5254T6, B5254T7, B5254T8, B6284T/T2, B6294S, B6294S2, B6294T, B6304S3, D5204T, D5204T2, D5204T3, D5204T5, D5244T, D5244T10, D5244T11, D5244T13, D5244T14, D5244T15, D5244T16, D5244T17, D5244T18, D5244T19, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7, D5244T8, D5244T9)

This tool is designed to be used for counter-holding the vibration damper while loosening and tightening the crankshaft central screw.



KL-0780-20 KA

Locking Tool Set, Volvo

Applicable to Volvo 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5, 2.8, 2.9 and 3.0 litre TwinCam petrol engines as found in: C30, C70, S40, S40 II, S60, S70, S80, V40, V50, V70, V70 II. (Engine codes: B 4164 S3, B 4184 S2, B 4184 S8, B 4184 S9, B 4184 S11, B 4194 T2, B 4204 S2, B 4204 S3, B 4204 T3)

Designed for the locking/positioning of the flywheel as well as of engine shafts such as camshafts and crankshaft. The kit also includes a tool to position the timing belt tensioner. An indispensable tool set when replacing a timing belt or performing an engine repair.



Scope of Delivery: KL-0780-20 KA Locking Tool Set, Volvo

Part No.	Description	Qty
KL-0180-3030	Locking Pin, Ø 3.0mm	1
KL-0280-2202 A	Setting Gauge for Camshafts	1
KL-0680-15 A	Locking Tool for Camshafts	1
KL-1280-221 A	Special Hexagon Socket Key, (waf) 6mm	1
KL-0680-17	Locking Pin for Crankshaft, Ø 5mm	1
KL-0680-18	Locking Pin for Crankshaft, Ø 7.95mm	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-0780-2090	Plastic Storage Case	1

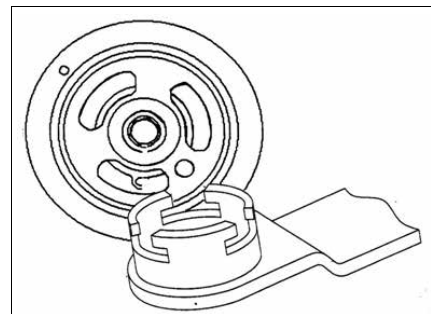
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KL-0184-061

Reaction Wrench, Ford

Applicable to Ford, Mazda, Volvo 1.3, 1.5, 1.6, 1.8, 2.0 and 2.3 litre engines; as installed in Ford Focus/C-Max, Mondeo, S-Max, Galaxy; Mazda 2, 3, 5, 6, CX-7, MX-5; Volvo C30, S40, V50, V70, S80. (Engine codes: B4184S11, B4184S8, B4204S3, B4204S4, L3 Turbo, LF, LF (MZR DISI), MZ-CD 1.6 (Y6), MZR 1.3 (ZJ), MZR 1.5 (ZY), MZR 1.8 (L8), MZR 2.0 (LF), ZJ, ZY)

This tool is designed to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw. It is required when replacing timing belts and for engine repairs.

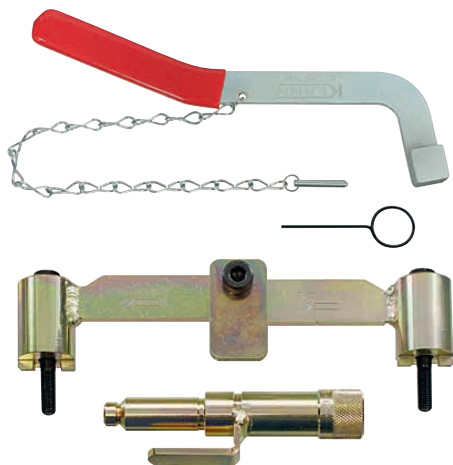


Technical Data:

Overall length (of assembled tool):	754mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm

Scope of Delivery: KL-0184-061 Reaction Wrench, Ford

Part No.	Description	Qty
KL-0184-0610	Reaction Wrench (Base Tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1



KL-1280-22 A

Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

Applicable to Renault and Volvo TwinCam petrol engines.

Renault 2.0 16V (N7Q) and 2.5 20V (N7U) as found in Laguna and Safrane.

Volvo 1.8 16V (B4184 S2/S9), 1.9 T4 (B4194 T2) and 2.0 16V / T (B4204 S2/T3) as found in S40 and V40.

Designed for the locking/positioning of engine shafts such as camshaft and crankshaft when changing a timing belt or during engine repairs.

Scope of Delivery:

KL-1280-22 A Locking Tool Set for Timing Belt, Renault 2.0 and 2.5

Part No.	Description	Qty
KL-1280-221 A	Locking Tool for Camshafts	1
KL-1280-222 A	Locking Pin for Crankshaft	1
KL-0180-3019	Retaining Pin for Hydraulic Tensioner Pulley, Ø 1.9mm	1
KL-1280-224 A	Tensioner Spanner with Retaining Pin for Auxiliary Belt	1

6



KL-0780-22 K

Locking Tool Set, Volvo 3.0, 3.2

Applicable to Volvo 3.0 T6 and 3.2 V6 petrol engines as found in: S60 (from 2011 onwards), S80 II (from 2006 onwards), V60, V70 II (from 2007 onwards), XC60, XC70 II (from 2007 onwards), XC90 (from 2002 onwards).

(Engine codes: B6304T2, B6304T4, B6324S, B6324S2, B6324S4, B6324S5)

Designed for the locking/positioning of camshafts and crankshaft. Also includes a tool to loosen/tighten the central screw of the inlet/exhaust camshaft sprockets. An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0780-22 K Locking Tool Set, Volvo 3.0, 3.2

Part No.	Description	Qty
KL-0780-221	Locking Tool for Camshaft	1
KL-0780-222	Locking Tool for Crankshaft	1
KL-0780-2231	Locking Plate	1
KL-0780-2232	Locking Plate	1
KL-4041-3160	Screwdriver Bit Socket T60, 100mm, 1/2"]	1
KL-0780-2290	Plastic Storage Case	1

KL-0780-21 K

Locking Tool Set, Volvo 4.4 V8

Applicable to Volvo 4.4 V8 petrol engines as found in S80 (II), XC90.

(Engine code: B 8444 S)

For the locking/positioning of engines shafts such as camshafts and crankshaft. An indispensable tool set when changing a timing chain or performing an engine repair.

Scope of Delivery:

KL-0780-21 K Locking Tool Set, Volvo 4.4 V8

Part No.	Description	Qty
KL-0780-211	Locking Tool for Crankshaft	1
KL-0780-212	Locking Tool for Camshaft (2 pcs.)	1
KL-0780-2190	Plastic Storage Case	1

KL-2380-705 K Locking Tool Set, Chrysler

Applicable to Chrysler and LDV vehicles equipped with either a 2.5 or 2.8 CRD engine; e.g. Chrysler Grand Voyager, Voyager and LDV Maxus. (Engine codes: R2516C, R2816C5.05A, R2516L, VM39/40B)

Designed for the locking/positioning of camshafts, crankshaft and timing belt tensioner. The kit also contains the necessary tool for retaining the timing belt on the crankshaft sprocket. An indispensable tool set when replacing a timing belt or performing an engine repair.



Scope of Delivery: KL-2380-705 K Locking Tool Set, Chrysler

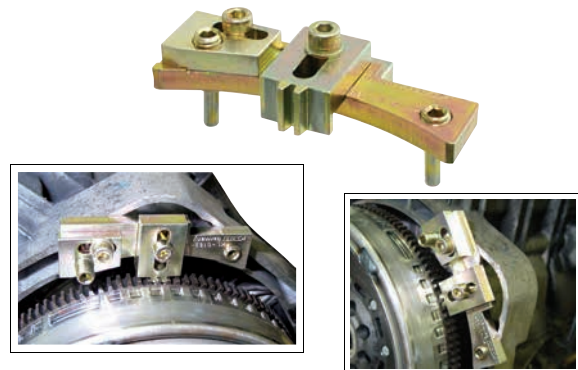
Part No.	Description	Qty
KL-2380-7051	Locking Tool for Inlet Camshaft	1
KL-2380-7052	Locking Tool for Exhaust Camshaft	1
KL-2380-7053	Locking Tool for Flywheel	1
KL-2380-7054	Holding Tool for Timing Belt	1
KL-2380-7055	Locking Tool for Flywheel	1
KL-2380-7056	Tensioner Pulley Spanner	1
KL-4990-2001	Plastic Storage Box	1
KL-4990-1103	Plastic Storage Case	1

KL-0182-10 A Flywheel Locking Tool (adjustable)

This tool is designed to lock the flywheel with the gearbox removed. The tool is axially and radially adjustable and, thus, almost universally applicable - simply by using different stud bolts.

Technical Data:

Bolt Ø:	8.5mm
Bolt distance:	92-107mm



KL-0110 A Holding Wrench

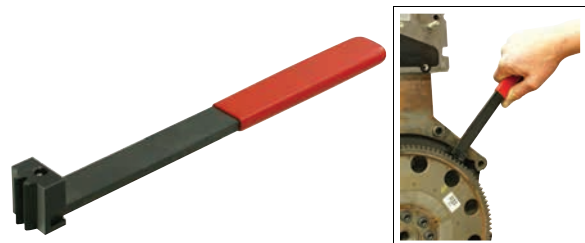
(Universal)

Universal application.

Used for locking flywheels.

Technical Data:

Length:	250mm
Weight:	0.5kg



KL-0220-10 K Fixing Tool Kit, VW Assembly Carrier

Suitable for use on assembly carriers/subframes found on VW-Audi, Seat and Škoda. For example, fitted to Audi A3 (8P), A4 (8E, 8H), TT (8J); VW EOS (1F), Fox (5Z), Golf Plus (1K), Golf V (1K), Jetta (1K), Passat (3C), Passat CC (357), Polo (9N), Scirocco (137), T5 (7J, 7H, 7E, 7F), Touareg (7C), Touran (1T, 9R); Seat Alhambra (71), Altea (5P), AlteaXL (5P), Ibiza / Córdoba (6J), Ibiza / Córdoba (6L), Leon (1P), León (5F), Toledo (5P), Toledo (KG3).

The tools allow for the professional installation/adjustment of assembly carriers (with fastening screws having an M12x1.5 or M14x1.5 thread). Necessary after maintenance work/repairs where the assembly carrier has been loosened/released, for example, after the replacement of silentblobs, wishbone etc.

Scope of Delivery: KL-0220-10 K Fixing Tool Kit, VW Assembly Carrier

Part No.	Description	Qty
KL-0220-101	Fixing Bolt, M12x1.5	4
KL-0220-102	Fixing Bolt, M14x1.5	4
KL-0220-1090	Plastic Storage Case	1



Technical Data:

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



KL-0146-20

(Patented)

Engine Support Device

Universally applicable device for supporting engines in vehicles.

Working on the timing belt side engine mount, for example when changing a timing belt, replacing a water pump etc., is day-to-day work in the garage. Almost every mechanic knows firsthand the problems that can occur when it comes to loosening the side engine mount of transverse-mounted engines. Here, the use of a supporting device, engine crane or engine stand is indispensable. Such devices, however, can make work even more difficult since the engine is no longer properly secured and access will be very limited or sometimes even impossible. The innovative **KL-0146-20** engine support device from GEDORE Automotive now offers the perfect solution to these problems. The special design of the device with its clamping hook assembly featuring large and individually adjustable clamping hooks with wide supporting surfaces, the unique fastening mechanism enabling the engine support to be fixed to the vehicle frame, and the cleverly designed support plate assembly with its adjustable tilting support pad (100 mm) ensure safe and solid support of the engine. This allows the mechanic to conveniently work on the engine from the top as well as from the bottom, with the engine always safely supported and secured against the risk of dropping - even when performing tasks such as turning engine shafts, loosening and tightening fastening screws etc. The clamping hooks are 360° rotatable and can be arranged universally to fit virtually any vehicle width. Once the device clamping hooks have been correctly positioned on the vehicle frame, these can easily be tightened to securely fix the support assembly to the vehicle. This prevents the engine support device from any slipping or dropping. The ingenious **KL-0146-20** engine support device from GEDORE Automotive offers you a maximum of safety and functionality combined with a wide range of application possibilities - without the need for additional accessories such as vehicle-specific adaptors etc.

Technical Data:

Max. load capacity:	100-300kg
Overall length:	1,100mm
Clamping hook width:	50mm
Clamping hook clamping range:	approx. 70mm
Max. height offset between clamping hooks:	approx. 90mm
Support plate height adjustment:	120mm
Weight:	16.5kg

Scope of Delivery: KL-0146-20 Engine Support Device

Part No.	Description	Qty
KL-0146-202	Clamping Hook Assembly	2
KL-0146-203	Support Plate Assembly	1
KL-0146-2011	Bar	1
KL-0146-2012	Bar (labelled)	1
KL-0146-2013	Spacer Sleeve	2
KL-0146-2014	Hex Screw, M8x95mm	2
KL-0035-0003	Hex Nut, M8	2
KL-0035-0004	Washer, Ø 8mm	2

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KL-0183-50

(Universal)

(Patented)

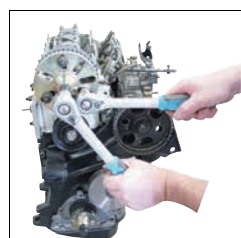
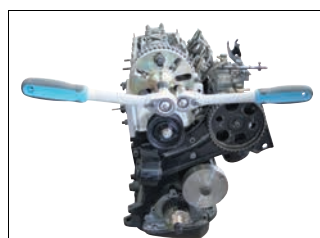
Timing Belt Sprocket Extractor and Reaction Tool

Universal application - Two tools in one. The tool can be used for loosening the central fixing screw as well as for removing the sprocket. Suitable for all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm. Hole diameters should not be less than 20mm.

The tool is used to hold the pulley in position while loosening/tightening the central fixing screw. It is also designed to prevent the pulley from rotating while removing the sprocket. For this, any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.

Scope of Delivery: KL-0183-50 Timing Belt Sprocket Extractor and Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-531	Hook, Ø 20mm	3
KL-0183-532	Hook, Ø 26mm	3
KL-0350-0009	Shoulder Nut, M10	3
KL-0183-540	Pressure Unit	1



KL-0183-51 A (Patented)

Timing Belt Sprocket Extractor and Reaction Tool with 2 Hooks

Applicable to VW-Audi, Seat, Škoda, Opel/Vauxhall, Ford, BMW, Mercedes, Peugeot, Citroën, Renault, Fiat, Japanese vehicles etc.

Universal application - Two tools in one.

Very useful tool for loosening the central fixing screw and for removing the sprocket. Suitable for all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm. Hole diameters should not be less than 16.5mm. The tool is used to hold the pulley in position while loosening/tightening the central fixing screw. It is also designed to prevent the pulley from rotating while removing the sprocket. For this, any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.

Scope of Delivery:

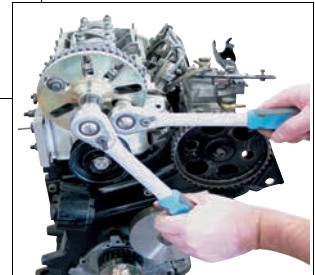
KL-0183-51 A Timing Belt Sprocket Extractor and Reaction Tool with 2 Hooks

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-533	Hook, Ø 16.5mm	2
KL-0350-0009	Shoulder Nut, M10	2
KL-0183-540 A	Pressure Unit	1

Accessories:

KL-0183-531 Hook, Ø 20mm

KL-0183-532 Hook, Ø 26mm



KL-0183-52 (Patented)

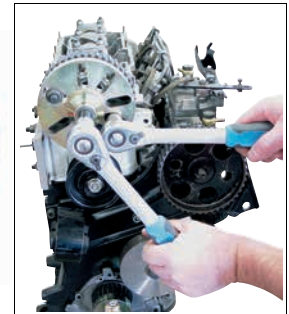
Timing Belt Sprocket Extractor/Reaction Tool

Applicable to injection pump and timing belt sprockets as found in Nissan, Renault, Dacia and Suzuki 1.5 dCi/DDiS Common Rail Diesel engines. Fitted, e.g., to Renault Clio II, Clio III, Fluence, Kangoo, Kangoo II, Laguna III, Megane II, Megane III, Scenic/Grand Scenic II, Scenic/Grand Scenic III, Logan, Logan MCV, Modus, Modus/Grand Modus II, Twingo II; Dacia Duster, Logan Pick-up, Logan Van/Express; Suzuki Jimny; Nissan Cube, Juke, Kubistar, Micra, Note, NV200, Qashqai, Qashqai 2, Tiida.

Suitable for use on perforated injection pump and timing belt sprockets with a pitch circle diameter of from 70-100mm. The hole diameter should not be less than 16.5mm; also suitable for slotted holes with a width of 15mm. In conjunction with a 1/2" reversible ratchet, the timing belt sprocket extractor/reaction tool is used to hold the injection pump-/ timing belt sprocket in position while loosening/tightening the central fixing screw. It also allows for the removal of the timing belt sprocket from the camshaft/injection pump shaft without risk of damage. An indispensable tool set when changing the coolant pump allowing the user to remove the injection pump sprocket located in front of the pump.

Scope of Delivery: KL-0183-52 Timing Belt Sprocket Extractor/Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-534	Hook (oval)	2
KL-0183-540 A	Pressure Unit	1
KL-0350-0009	Hex Shoulder Nut, M10	2



(Engine codes: K9K, K9K 262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 838, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898)

KL-0183-550 (Patented)

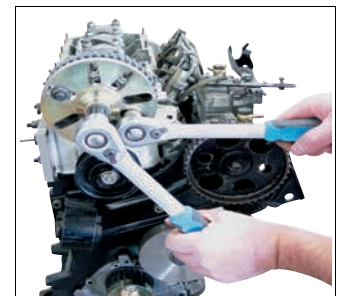
Upgrade Kit

Required, for example, to hold the injection pump sprocket in position on VW T4, Transporter and LT (with 2.3, 2.4 or 2.5 litre 5-cylinder Diesel engines).

Designed to complement our timing belt sprocket extractors KL-0183-50, KL-0183-51 A and KL-0183-52.

Scope of Delivery: KL-0183-550 Upgrade Kit

Part No.	Description	Qty
KL-0183-533	Hook, Ø 16.5mm	2
KL-0183-5404	Pressure Piece	1





KL-0183-70 K Tool Kit for V-Ribbed Belts

Applicable to BMW 1 Series (E81, E87), 3 Series (E46, E90, E91, E92, E93), 5 Series (E60, E61), 6 Series (E63, E64), 7 Series (E65, E66), X3 (E83), X5 (E53, E70), X6 (E71, E72); Chrysler Voyager III (RG); Citroën C2 (JM_), C3 (FC_, HB_), C4 (LC_, LA_, UA_, UD_), Jumper; Dacia Logan / MCV; Fiat Doblo (119, 223), Ducato (244), Fiorino, Linea, Palio (178BX), Stilo (192), Strada (178E); Ford C-Max, Fiesta V (JH_, JD_), Focus II / C-Max (DA_, DAW_), Fusion (JU_); Mazda 3 (BK12, BK14), 5 (CR19); Peugeot 206 CC (2D), 207 (WA_, WC_, WD_), 307 (3A/C, 3E, 3H), Boxer; Renault Logan (LS_); Škoda Fabia; Volvo C30, S40 II (MS), V50 (MV); VW Polo (9N_).

This tool set is indispensable for the quick and easy removal and installation of the newly developed elastic V-ribbed belts. Without the use of this tool, the professional removal and installation of these belts is almost impossible as the belt guide has no tensioning element and, therefore, releasing the tension on the belt is not possible.

Scope of Delivery: KL-0183-70 K Tool Kit for V-Ribbed Belts

Part No.	Description	Qty
KL-0183-701	V-Ribbed Belt Removal Tool	1
KL-0183-702	V-Ribbed Belt Installation Tool	1
KL-0183-7090	Plastic Storage Case	1

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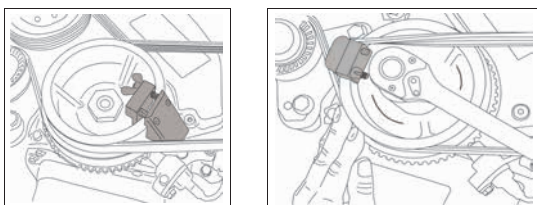
KL-0183-71 K Tool Kit for Elastic V-Ribbed Belts

Applicable to BMW, Ford, Mazda, Volvo etc; e.g. BMW 3 Series E90, X3 E83; Ford Focus 1.4 16V (04-12), Focus C-Max 1.6 16V (2004-12), Fiesta 1.25 16V and 1.4 16V (2002-08), Fusion 1.6 16V (2002-08); Mazda 2 1.2 16V (2002-06), Volvo C30, S40, V50 1.6 16V (2005 onwards); engine codes: BMW: M47, M57; Ford: ASDA*, ASDB*, HWDA*, HWDB*, HXDA*, HXDB*, SHDA*, SHDB*, SHDC*, SIDA*, F8JA, F8JB, FUJA, FUJB, FXJA, FXJB, M7JA, M7JB, SPJA, SPJC, FYJA, FYJB; Mazda: FUJA, FUJB, F8JA, F8JB, FXJA, FXJB, FYJA; Volvo: B4164 S3. (*with double pulley on the crankshaft on which the belt needs to be fitted via the water pump)

This tool set is indispensable for the quick and easy removal and installation of elastic V-ribbed belts. Without the use of this tool, the professional removal and installation of these belts is almost impossible as the belt guide has no tensioning element and, therefore, releasing the tension on the belt is not possible.

Scope of Delivery: KL-0183-71 K Tool Kit for Elastic V-Ribbed Belts

Part No.	Description	Qty
KL-0183-711	Belt Installation Tool, Ford, Volvo	1
KL-0183-712	Belt Guide Tool, Ford, Volvo	1
KL-0183-701	V-Ribbed Belt Removal Tool	1
KL-0183-702	V-Ribbed Belt Installation Tool	1
KL-0183-7190	Plastic Storage Case	1



KL-0183-710 K Tool Kit for Elastic V-Ribbed Belts

Applicable to vehicles equipped with either a 1.4 or 1.6 litre Ford engine with double pulley on the crankshaft on which the belt needs to be fitted via the water pump; such as Ford Focus, Focus C-Max; Volvo C30, S40, V50. (Engine codes: ASDA, ASDB, B4164S3, HWDA, HWDB, HXDA, HXDB, SHDA, SHDB, SHDC, SIDA)

This tool set is designed for the quick and easy installation of elastic V-ribbed belts.

Scope of Delivery: KL-0183-710 K Tool Kit for Elastic V-Ribbed Belts

Part No.	Description	Qty
KL-0183-711	Belt Installation Tool, Ford, Volvo	1
KL-0183-712	Belt Guide Tool, Ford, Volvo	1
KL-0183-7190	Plastic Storage Case	1



KL-0284-184 K Alternator and Belt Tool Set, in a Plastic Storage Case

Universally applicable, e.g. to: VW-Audi, Seat, Škoda, BMW, Alfa Romeo, Dacia, Fiat, Ford, Mazda, Mercedes, Peugeot, Porsche, Renault, Toyota, Volvo, Opel/Vauxhall etc.

The **KL-0284-184 K** alternator and belt tool set allows for the easy and professional loosening/tightening of hard-to-access screws on fan clutches, pulleys/tensioner pulleys. The kit also includes tools for the removal/installation of overrunning alternator pulleys. An indispensable tool set, for example, when changing an alternator or pulley, as well as when removing/installing elastic ribbed V-belts.

Scope of Delivery:

KL-0284-184 K Alternator and Belt Tool Set, in a Plastic Storage Case

Part No.	Description	Qty
KL-0284-184 E	Alternator and Belt Tool Set, in a Foam Insert	1
KL-0186-1419-3	Foam Lid Insert, Width 40mm	1
KL-0186-1419-1	Plastic Storage Case	1

Scope of Delivery:

KL-0284-184 E Alternator and Belt Tool Set, in a Foam Insert

Part No.	Description	Qty
KL-0284-1902	Union Nut (Multi-Tooth), 33 Teeth	1
KL-0284-2702	Union Nut, Size (waf) 28mm	1
KL-0284-4202	Union Nut (Multi-Tooth), 32 Teeth	1
KL-0284-2601	Screwdriver Bit Socket, Size (waf) 10mm	1
KL-0284-2811	Screwdriver Bit Socket, Size (waf) 6mm	1
KL-0284-2821	Screwdriver Bit Socket, Size (waf) 8mm	1
KL-0284-2831	Screwdriver Bit Socket, Size (waf) 10mm	1
KL-0284-40	Alternator Combination Socket, T50	1
KL-0284-41	Alternator Combination Socket, XZN-M10	1
KL-0284-3901	Union Nut, Size (waf) 17mm	1
KL-0284-3902	Union Nut with 3 Pins	1
KL-0284-2801	Screwdriver Bit Socket, XZN-M10	1
KL-0284-2901	Screwdriver Bit Socket, T50	1
KL-0366-15 A	Special Wrench Set	1
KL-0149-131	Pin-Type Face Spanner, 14-100mm, 5 Pins	1
KL-0183-701	V-Ribbed Belt Removal Tool	1
KL-0183-702	V-Ribbed Belt Installation Tool	1
KL-0183-711	Belt Installation Tool, Ford, Volvo	1
KL-0183-712	Belt Guide Tool, Ford, Volvo	1
KL-0284-1849-2	Foam Insert	1



KL-0284-184 E

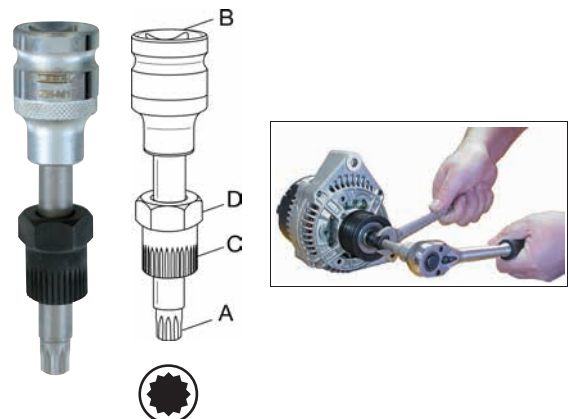
KL-0284-18 Alternator Combination Socket

Suitable for use on alternators with overrunning alternator pulley. Applications: VW-Audi, BMW, Ford, Škoda, Mercedes, Opel/Vauxhall, Porsche, Renault etc.

This two-part alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the XZN socket insert bit (10mm) is needed to lock the pulley shaft during the loosening process.

Technical Data:

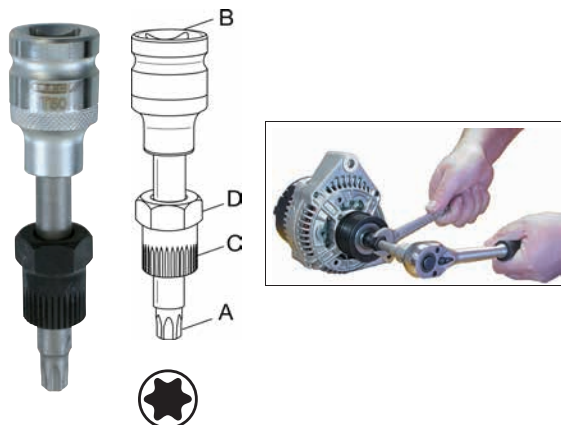
Socket Insert (A):	XZN - M10
Drive (B):	1/2" square
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	156g



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet





KL-0284-19

Alternator Combination Socket

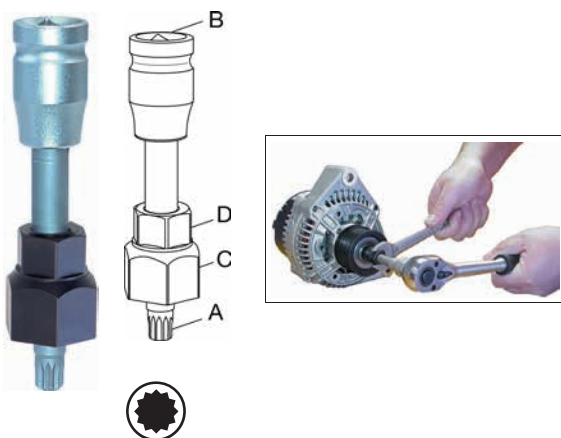
For example, suitable for use on BMW 1 Series (F20); Mercedes A-Class, C-Class; Renault 1.9 DTI.

This two-part alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the Torx® T50 socket insert bit is needed to counter-hold the pulley shaft during the loosening process.

Technical Data:

Socket Insert (A):	Torx® T50
Drive (Socket Insert) (B):	1/2"
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	156g

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



KL-0284-37

Alternator Combination Socket

Suitable for use on the rubber-mounted alternator pulleys installed in Renault and Dacia 1.4 and 1.6 litre petrol engines.

Applications: Renault Clio, Laguna, Mégane, Scénic, and Dacia Logan.

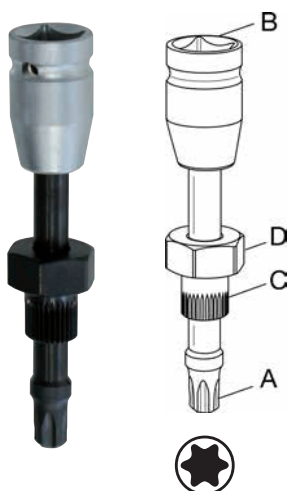
This two-part alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley.

Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the pulley shaft needs to be locked by means of the 10mm XZN multi-spline insert bit during the loosening process.

Technical Data:

Socket Insert (A):	XZN - M10
Drive (Socket Insert) (B):	1/2"
Union nut with hexagon (C):	28mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	110g

6



KL-0284-40

Alternator Combination Socket, T50

Suitable for use on alternators with overrunning alternator pulley, as found in: Opel/Vauxhall, Fiat, Alfa.

This alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley.

Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shafts need to be locked by means of the Torx® T50 socket insert bit during the loosening process.

Technical Data:

Socket insert (A):	Torx® T50
Drive (Socket insert) (B):	1/2"
Union nut with 31 teeth, outer Ø (C):	14mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	140g

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

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



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



KL-0284-42

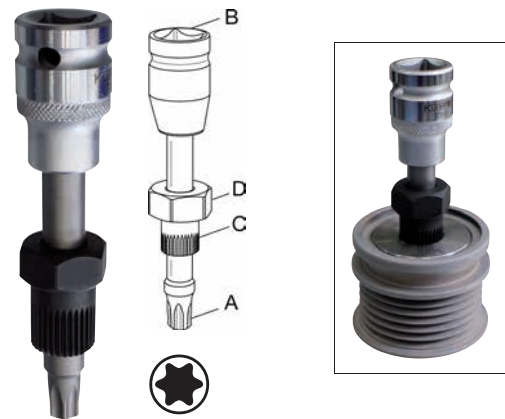
Alternator Combination Socket, T50

Suitable for use on alternators with overrunning alternator pulley, as found in: VW-Audi, Seat, Škoda etc.

This alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shaft needs to be locked by means of the Torx® T50 socket insert bit during the loosening process.

Technical Data:

Socket insert (A):	Torx® T50
Drive (Socket insert) (B):	1/2"
Union nut with 32 teeth outer Ø (C):	17mm
Drive (Union nut) (D):	21mm
Length (G):	110mm



KL-0284-41

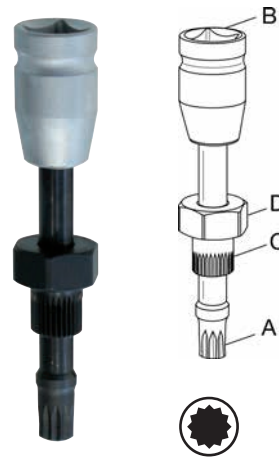
Alternator Combination Socket, XZN-M10

Suitable for use on alternators with overrunning alternator pulley, as found in: Opel/Vauxhall, Fiat, Alfa.

This alternator combination socket is designed for the removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shaft needs to be locked by means of the XZN-M10 socket insert bit during the loosening process.

Technical Data:

Socket insert (A):	XZN-M10
Drive (Socket insert) (B):	1/2"
Union nut with 31 teeth outer Ø (C):	14mm
Drive (Union nut) (D):	21mm
Length:	110mm
Weight:	140g



KL-0284-28

Alternator Combination Socket

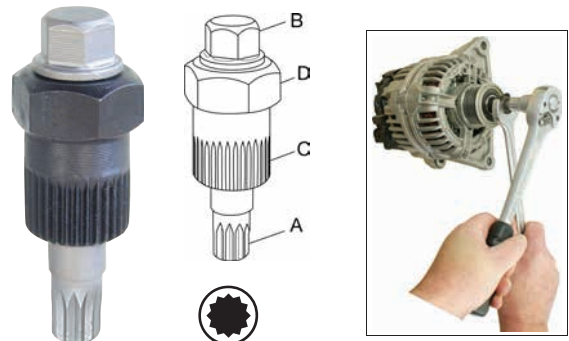
Suitable for use on alternators with overrunning alternator pulley, as found in VW-Audi, BMW, Ford, Škoda, Mercedes, Opel/Vauxhall, Porsche, Renault, etc.

This short two-part alternator combination socket allows for the easy removal and installation of a overrunning alternator pulley in-situ on the vehicle without the need for removing the alternator.

Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the pulley shaft needs to be locked by means of the 10mm XZN multi-spline insert during the loosening process.

Technical Data:

Socket insert (A):	XZN-M10
Drive Size (waf) (B):	12mm
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	64mm
Weight:	95g



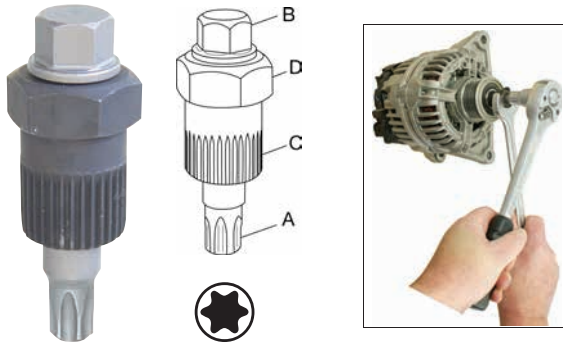
Accessories (on demand):

7 R - Combination Ratchet Spanner



4549-05 CODE:1545140 - Torque Wrench TORCOFIX K 3/8" 5-50Nm





KL-0284-29

Alternator Combination Socket

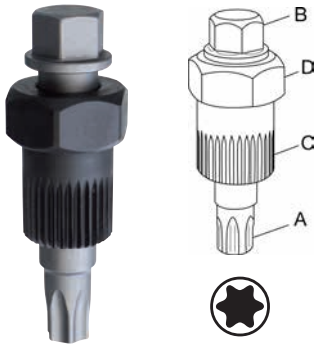
For example, suitable for use on BMW 1 Series (F20), X3 (F25); Mercedes A-Class, Renault 1.9 DTI.

This short two-part alternator combination socket allows for the easy removal and installation of an overrunning alternator pulley in situ on the vehicle without the need for removing the alternator. Since the pulley cannot be locked from the outside while loosening or tightening the central nut, the pulley shaft needs to be counter-held means of the Torx® T50 socket insert bit during the loosening process.

Technical Data:

Socket Insert (A):	Torx® T50
Drive (Socket Insert) (B):	12mm
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	64mm
Weight:	95g

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



KL-0284-44

Alternator Combination Socket, T50

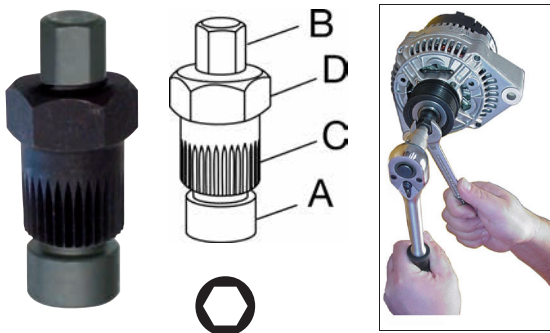
Suitable for use on alternators with overrunning alternator pulley, as found in: VW-Audi, Seat, Škoda etc.

This alternator combination socket is designed the removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shaft needs to be locked by means of the Torx® T50 socket during the loosening process.

Technical Data:

Socket bit insert (A):	Torx® T50
Drive (socket bit insert) (B):	waf 12mm
Union nut with 32 teeth, outer Ø (C):	17mm
Drive (Union nut) (D):	21mm
Length (G):	64mm

6



KL-0284-26

Alternator Combination Socket (waf 10mm)

Suitable for use on alternators with overrunning alternator pulley as found on Volvo etc.

This tool is required for the removal and replacement of overrunning alternator pulleys in situ on the vehicle. No need to remove the alternator from the vehicle using this socket. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the socket insert (waf 10mm) is needed to lock the pulley shaft during the loosening process.

Technical Data:

Socket insert (external hexagon) (A):	10mm
Drive (Socket insert) (B):	10mm
Union nut with 33 teeth, outer Ø (C):	Ø 19.5mm
Drive (Union nut) (D):	21mm
Length:	49mm
Weight:	95g

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



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



7 R - Combination Ratchet Spanner



4549-05 CODE:1545140 - Torque Wrench TORCOFIX K 3/8" 5-50Nm



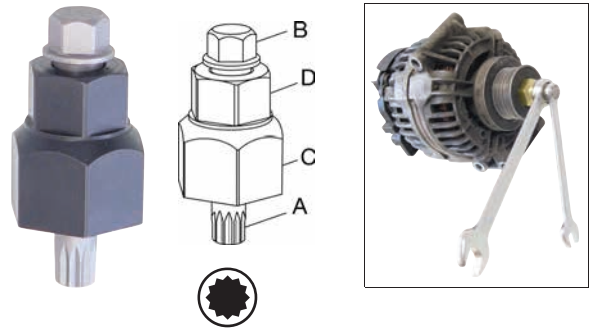
KL-0284-27 Alternator Combination Socket

Suitable for use on the rubber-mounted alternator pulleys installed in Renault and Dacia 1.4 and 1.6 litre petrol engines; as found on Renault Clio, Laguna, Megane, Scenic and Dacia Logan.

This short two-part alternator combination socket allows for the easy removal and installation of an overrunning alternator pulley in situ on the vehicle without the need for removing the alternator. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the 10mm XZN multi-spline insert is needed to lock the pulley shaft during the loosening process.

Technical Data:

Socket Insert (A):	XZN-M10
Drive (B):	12mm
Hexagonal Union Nut (C):	28mm
Drive (Union Nut) (D):	21mm
Length:	64mm
Weight:	95g



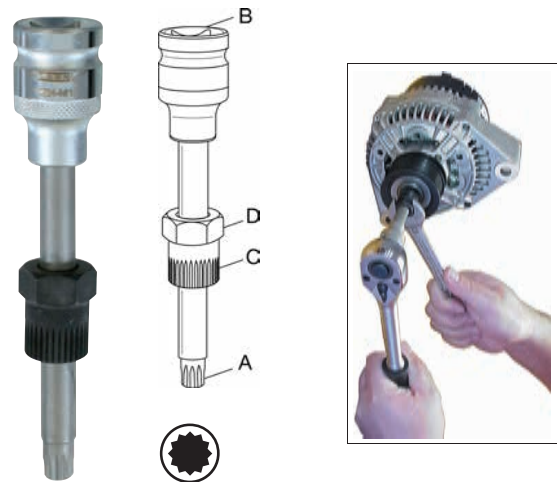
KL-0284-38 Alternator Combination Socket

Suitable for use on alternators with overrunning alternator pulleys as found on: VW-Audi, BMW, Ford, Škoda, Mercedes, Opel/Vauxhall, Porsche, Renault etc. Essential tool for pulleys that are hard to reach.

This two-part alternator combination socket allows for the easy removal and installation of an overrunning alternator pulley in situ on the vehicle without the need for removing the alternator. Since the pulley cannot be counter-held from the outside while slackening or tightening the central nut, the 10mm XZN multi-spline insert is needed to lock the pulley shaft during the loosening process.

Technical Data:

Socket Insert (A):	XZN-M10
Drive (Socket Insert) (B):	1/2"
Union nut with 33 teeth, outer Ø (C):	19.5mm
Drive (Union nut) (D):	21mm
Length:	140mm
Weight:	156g



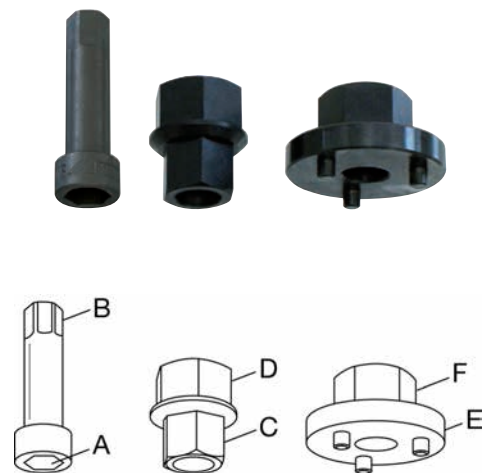
KL-0284-39 Alternator Combination Socket

Suitable for use on alternators with overrunning alternator pulley as found on: Volvo C30, Toyota, etc.

This three-part alternator combination socket allows for the easy removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the socket insert bit (waf 10mm) is needed to lock the pulley shaft during the loosening process.

Technical Data:

Socket (external hexagon) (A):	10mm
Drive (Socket) (B):	10mm
Union nut (C):	17mm
Drive (union nut) (D):	21mm
Union nut with 3 pins (E):	21mm
Drive (union nut) (F):	21mm
Overall length	49mm



Scope of Delivery: KL-0284-39 Alternator Combination Socket, Size (waf) 10mm

Part No.	Description	Qty
KL-0284-3901	Union Nut, Size (waf) 17mm	1
KL-0284-3902	Union Nut, with 3 Pins	1
KL-0284-2601	Screwdriver Bit Socket, Size (waf) 10mm	1



KL-0284-281

Alternator Combination Socket

Suitable for use on alternators with overrunning alternator pulley.

This socket allows for the removal and installation of overrunning alternator pulleys in situ on the vehicle without the need for removing the alternator.

Technical Data:

Socket insert (internal hexagon):	6mm
Drive (socket insert):	12mm
Union nut with 33 teeth, outer Ø:	19.5mm
Drive (union nut):	21mm
Length:	64mm
Weight:	95g



KL-0284-43

Alternator Combination Socket

Suitable for alternators with overrunning alternator pulley, as found in: VW-Audi, Seat, Škoda etc.

This alternator combination socket is designed for the removal and installation of the overrunning alternator pulley when replacing an alternator or a pulley. Since the pulley cannot be counter-held from the outside while loosening or tightening the central nut, the pulley shaft needs to be locked by means of the 8mm hexagon socket during the loosening process.

Technical Data:

Socket insert (internal hexagon) (A):	8mm
Drive (Socket insert) (B):	12mm waf
Union nut with 32 teeth outer Ø (C):	17mm
Drive (Union nut) (D):	21mm
Length (G):	64mm

6



KL-0284-282

Alternator Combination Socket

Suitable for use on alternators with overrunning alternator pulley.

This socket allows for the removal and installation of overrunning alternator pulleys in situ on the vehicle without the need for removing the alternator.

Technical Data:

Socket insert (internal hexagon):	8mm
Drive (socket insert):	12mm
Union nut with 33 teeth, outer Ø:	19.5mm
Drive (union nut):	21mm
Length:	64mm
Weight:	95g



KL-0284-283

Alternator Combination Socket

Suitable for use on alternators with overrunning alternator pulley.

This socket allows for the removal and installation of overrunning alternator pulleys in situ on the vehicle without the need for removing the alternator.

Technical Data:

Socket insert (internal hexagon):	10mm
Drive (socket insert):	12mm
Union nut with 33 teeth, outer Ø:	19.5mm
Drive (union nut):	21mm
Length:	64mm
Weight:	95g

KL-0183-31.. V-Ribbed Belt Tensioner Tools

This tool is required for pre-tensioning the auxiliary belt tensioner when removing and installing the belt in situ on the vehicle. Particularly suitable for use in confined spaces.

KL-0183-3110 V-Ribbed Belt Tensioner Tool E10

Universal application.

Technical Data:

Size:	Torx® E10
Length:	550mm
Weight:	420g



KL-0183-3114 V-Ribbed Belt Tensioner Tool E14

Tool is universally applicable, for example, to Opel/Vauxhall 1.0 12V, 1.2 and 1.4 16V TwinCam petrol engines.

Technical Data:

Size:	Torx® E14
Length:	550mm
Weight:	420g



KL-0183-3118 V-Ribbed Belt Tensioner Tool E18

Tool is universally applicable, for example, to Vauxhall/Opel 1.0 12V, 1.2 and 1.4 16V TwinCam petrol engines.

Technical Data:

Size:	Torx® E18
Length:	550mm
Weight:	420g

Torx® = registered trademark of Acument Intellectual Properties, LLC. USA

KL-0183-2 Wrench Set

Universal application.

Consists of:

KL-0183-20 Special Socket Wrench with Socket Set

Indispensable tools when removing and replacing V-belts and timing belts that are tensioned via an automatic tensioner pulley. The socket wrench set **KL-0183-20** enables the spring-loaded tensioner pulley to be tensioned and, as a result, the tension on the V-belt or on the timing belt to be released. This tool can be used for hard-to-access areas where ratchets and spanners will not reach. Suitable for tensioner pulleys with 13mm, 15mm, 16mm, 18mm hex and both 3/8" and 1/2" square drive sizes.

KL-0183-21 Belt Mounting Tool

This tool allows for the easy and trouble-free positioning of a V-ribbed belt on the pulleys. Specially designed for use in confined spaces.

Scope of Delivery: KL-0183-2 Wrench Set

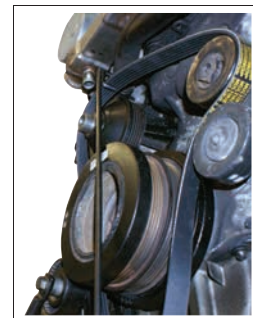
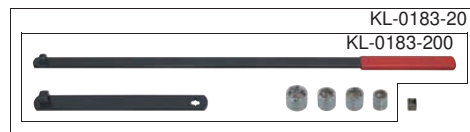
Part No.	Description	Qty
KL-0183-20	Special Socket Wrench with Socket Set	1
KL-0183-21	Belt Mounting Tool	1

Scope of Delivery: KL-0183-20 Special Socket Wrench with Socket Set

Part No.	Description	Qty
KL-0183-200	Special Socket Wrench with Socket Set	1
KL-0183-2003	Adaptor 3/8" to 1/2"	1

Scope of Delivery: KL-0183-200 Special Socket Wrench with Socket Set

Part No.	Description	Qty
KL-0183-2001	Wrench, 580mm long, with 3/8" drive	1
KL-0183-2002	Extension, 230mm long mit 3/8" drive	1
KL-0183-2013	Socket with Hexagon, waf 13mm	1
KL-0183-2015	Socket with Hexagon, waf 15mm	1
KL-0183-2016	Socket with Hexagon, waf 16mm	1
KL-0183-2018	Socket with Hexagon, waf 18mm	1



Technical Data KL-0183-20 / KL-0183-200:

Weight:	1.2kg
Length of wrench:	580mm
Length of extension:	230mm
Drive:	3/8"



Technical Data:

Length:	450mm
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Scope of Delivery:

KL-0366-15 Special Wrench Set

Part No.	Description	Qty
KL-0366-100	Special Wrench, 8mm drive	1
KL-0366-10	Hexagon Socket Insert, 10mm	1
KL-0366-20	Hexagon Socket Insert, 8mm	1
KL-0366-30	Torx® Insert, T45	1
KL-0366-111	Torx® Insert, T60	1
KL-0366-121	Torx® Insert, T50	1
KL-0366-131	Torx® Insert, T60x40mm	1

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

KL-0366-15 A Special Wrench Set

Universal application.

Designed to loosen and tighten hard-to-reach screws on fan clutch, pulley, tensioner etc.

Application examples:

Use wrench in conjunction with the **KL-0366-10** hexagon socket insert 10mm for the Mercedes engines M102, M103, OM601, OM602, OM603, OM605 and OM606. For loosening the screws on compressor pulleys.

Use wrench in conjunction with the **KL-0366-20** hexagon socket insert 8mm for the Mercedes engines M102, M103, OM601, OM602, OM603, OM605 and OM606. For loosening and tightening the fan clutch and pulley at the water pump.

Use wrench in conjunction with the **KL-0366-30** Torx® socket insert T45 for the Renault 2.2 Diesel engines (G8T), e.g. Espace, Laguna, Safrane etc. When removing and installing a V-belt, the automatic tensioner pulley needs to be tensioned by means of the special wrench so as to release the tension on the V-belt.

Use wrench in conjunction with the **KL-0366-111** Torx® socket insert T60 for the BMW 5-Series (E60) 2.0 (M54) petrol engines and Mercedes C-Class (W203) 1.8 (OM271) petrol engines etc.

When removing and installing a V-ribbed belt, the automatic tensioner pulley needs to be tensioned by means of the special wrench so as to release the tension on the V-ribbed belt.

Use wrench in conjunction with the **KL-0366-121** Torx® socket insert T50 for the Renault 1.4 and 1.6 TwinCam petrol engines (engine code: K4J, K4M) as found in: Clio III, Megane / Scenic II, Laguna II, Modus and Kangoo.

For removing and installing the idler pulley, for example, when replacing a timing belt or performing an engine repair.

Use wrench in conjunction with the **KL-0366-131** Torx® socket insert T60x40mm for the VW-Audi 2.7 and 3.0 V6 TDI Diesel engines, e.g. Audi A4, A5, A6, A8, Q5 and Q7; VW Phaeton and Touareg.

For removing and installing the idler pulley, for example, when replacing a timing belt or performing an engine repair.

6

KL-0366-4 Pulley Spinning Tool

Applicable to Mercedes, VW-Audi, BMW, Ford, Opel/Vauxhall, Peugeot, Renault, Rover, Volvo, Japanese passenger cars etc.

Used for turning the engine. The tool can be adjusted to different pulley sizes.

Technical Data:

Length:	325mm
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Attention:

The **KL-0366-4** is **not** designed to counter-hold shafts.



KL-0184-011 E Counter-Holding Tool Kit, in a Foam Insert

Universally applicable, e.g. to: VW-Audi, Seat, Škoda 1.2, 1.4, 1.6, 1.8, 2.0, 2.3, 2.4, 2.5, 2.8, 3.2, 3.6, 4.0, 6.0; Opel/Vauxhall, Fiat, Alfa Romeo 2.2 16V and Ford, Mazda, Volvo 1.3, 1.5, 1.6, 1.8, 2.0, 2.3 litre petrol and Diesel engines respectively. (Engine codes: VW-Audi, Seat, Škoda: AFK, AGZ, AHW, AJA, APE, AQN, AQQ, ARC, ARR, ASY, ATN, AUA, AUB, AUE, AUS, AVY, AWY, AXP, AXU, AXZ, AYL, AYT, AZD, AZQ, AZZ, BAA, BAD, BAG, BAN, BAP, BBM, BBY, BBZ, BCA, BCB, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHK, BHL, BHT, BJJ, BJK, BJL, BJM, BJN, BJS, BKG, BKJ, BKK, BKL, BKY, BKY, BLF, BLG, BLN, BLP, BMD, BME, BMJ, BML, BMV, BMX, BMY, BRJ, BRK, BRN, BRP, BSB, BTE, BTS, BTT, BUB, BUD, BUD, BWK, BWS, BXW, BYT, BZB, BZG, CABA, CABB, CABD, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAWA, CAWB, CAXA, CAXC, CBFA, CBRA, CBZA, CBZB, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDGA, CDHA, CDHB, CDN, CDNC, CDND, CEBA, CEBB, CECA, CECB, CESA, CETA, CFKA, CGGA, CGGB, CGPA, CGPB, CGYA, CHFA, CHFB, CKMA, CMAA; Opel/Vauxhall, Fiat, Alfa Romeo: Z22SE, Z22YH, 194A1.000, 939A5.000; Ford, Mazda, Volvo: B4184S11, B4184S8, B4204S3, B4204S4, L3 Turbo, LF, LF (MZR DISI), MZ-CD 1.6 (Y6), MZR 1.3 (ZJ), MZR 1.5 (ZY), MZR 1.8 (L8), MZR 2.0 (LF), ZJ, ZY)

The **KL-0184-011 E** counter-holding tool kit is needed to counter-hold crankshaft pulleys, as well as timing belt sprockets/crankshaft sprockets while loosening/tightening the crankshaft/camshaft central screw.

The special **KL-0184-0119** foam insert is designed to keep the tools of the **KL-0184-011 E** counter-holding tool kit always properly organised and well protected in the **KL-4999-121** workshop trolley. Thanks to this ingenious tool management system, tools can be found quickly and easily and missing tools identified at a glance. As a result, repairs can be carried out more efficiently - saving you time and money. The foam inserts are provided with specifically tool-shaped spaces to ensure that tools are safely stored and can be taken out and put back in place with ease.



Scope of Delivery: KL-0184-011 E Counter-Holding Tool Kit, in a Foam Insert

Part No.	Description	Qty
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	3
KL-0184-0103	Folding Spring Bolt	4
KL-0184-0210	Counter-Holding Tool (Base Tool with Adaptor)	1
KL-0184-0220	Counter-Holding Tool (Base Tool)	1
KL-0184-0230	Counter-Holding Tool (Base Tool)	1
KL-0184-0240	Counter-Holding Tool (Base Tool)	1
KL-0184-0250	Counter-Holding Tool (Base Tool)	1
KL-0184-0410	Counter-Holding Tool (Base Tool)	1
KL-0184-0610	Counter-Holding Tool (Base Tool)	1
KL-0282-35	Counter-Holding Tool (adjustable)	1
KL-0282-311	Set of Bolts, Ø 18mm	1
KL-0282-312	Set of Bolts, Ø 7.5mm	1
KL-0282-313	Set of Bolts, Ø 6mm	1
KL-0184-0119	Foam Insert (without tools)	1

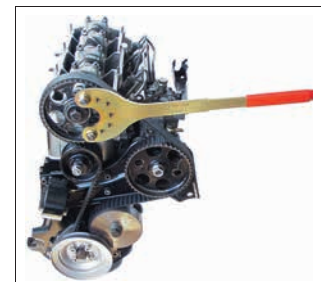
KL-0282-31 Reaction Wrench (420mm long, adjustable)

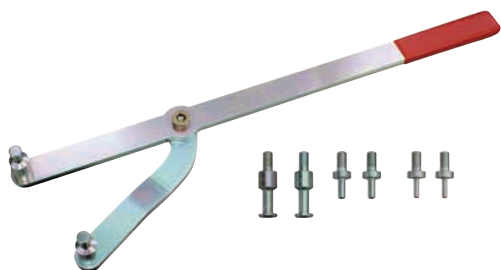
Suitable for use on perforated timing belt sprockets with a hole Ø not smaller than 12mm, as found in VW-Audi, Seat, Fiat, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Isuzu, Japanese vehicles, etc.

With interchangeable pins and different hole pitches. Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating; for example, when loosening the central fastening screw. Due to the different pin Ø and hole pitches, this wrench is almost universal in its range of application.

Technical Data:

Pitch between pins:	45-75mm
Pin Ø:	12mm and 16mm
Pin height:	61mm
Overall tool length:	420mm





KL-0282-35 B

Reaction Wrench Set (470mm long, adjustable)

Universally suitable for use on perforated timing belt sprockets with a hole \varnothing not smaller than 6.5mm as found in: VW-Audi, Seat, Škoda, Alfa, Fiat, Lancia, Dacia, MG, Nissan, Ford, Opel/Vauxhall, Peugeot, Renault, Citroën, Rover, Volvo, Suzuki, Isuzu, Japanese vehicles, etc.

Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating, for example, when loosening/tightening the central fastening bolt. Thanks to the different interchangeable pins and the adjustable lever allowing for variable adjustments to hole diameters and pitches, this tool is nearly universally applicable.

Technical Data:

Pitch between pins:	from 14-130mm
Pin \varnothing :	6mm, 7.5mm, 12mm, 18mm
Pin height:	25mm/42mm
Overall tool length:	470mm

Scope of Delivery: KL-0282-35 B Reaction Wrench Set (470mm long, adjustable)

Part No.	Description	Qty
KL-0282-35	Reaction Wrench (adjustable)	1
KL-0282-311	Set of Pins, \varnothing 18mm	1
KL-0282-312	Set of Pins, \varnothing 7.5mm	1
KL-0282-313	Set of Pins, \varnothing 6mm	1

KL-0184-022

Counter-Holding Tool, VW

Universal application.

Essential tool for the VW-Audi, Seat, and Škoda 1.2, 1.4 and 1.6 litre petrol engines with 2- or 4-valve technology as well as for Škoda 1.9 SDI Diesel engines. Installed in: VW Beetle, Bora, Caddy/Caddy Maxi, Eos, Fox, Golf, Golf Plus, Golf VI Cabrio, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A2, A3, A3 Convertible; Seat Alhambra, Altea/Altea XL, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo; Škoda Fabia, Fabia II, Octavia II, Octavia/Octavia Tour, Praktik, Roomster, Superb II, Yeti.

(Motorcode: AFK, AHW, APE, AQQ, ARR, ASY, AUA, AUB, AUS, AVY, AWY, AXP, AXU, AZD, AZQ, BAD, BAG, BBM, BBY, BBZ, BCA, BCB, BKG, BKY, BLF, BLG, BLN, BLP, BMD, BME, BMY, BTS, BUD, BWK, BXW, BZG, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAXA, CAXC, CBZA, CBZB, CDGA, CGGA, CGGB, CGPA, CGPB, CHFA, CHFB, CKMA, CMAA)

This tool is designed to counter-hold pulleys, timing belt sprockets etc.

It is required when loosening/tightening the fastening screw.

The locking takes place either via the pins (\varnothing 11.5mm) which engage the holes of the pulleys/timing belt sprockets, or by fixing the counter-holding tool to the crankshaft timing belt sprocket by means of the M8 bolts.

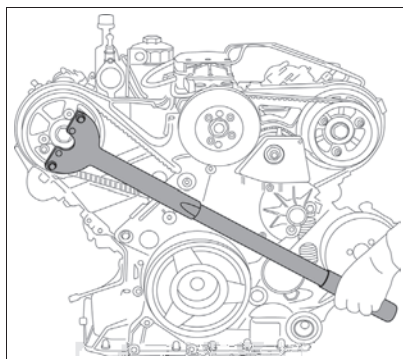
Thanks to its special length of 704mm, this tool allows even very tight-fitting or stubborn fastening screws to be loosened with ease.

Technical Data:

Overall length (of assembled tool):	704mm
Length of base tool:	351mm
Length of extension tube with protective handle:	403mm
Pin \varnothing :	11.5mm
Pin pitch:	99.5mm
Pin height:	31.5mm
Bolt thread:	M8
Bolt pitch:	45.5mm
Bolt height:	18mm

Scope of Delivery: KL-0184-022 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0220	Counter-Holding Tool (Base Tool with Bolts)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1



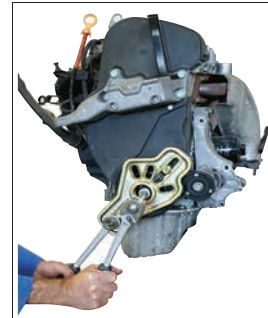
KL-0155-42 (Patented) V-Ribbed Belt Pulley Puller

Universally suitable for use on perforated V-ribbed belt pulleys with diameters of from 120-180mm.

Two tools in one. This tool is designed to hold the pulley in position while loosening the central fixing screw, as well as to remove the V-ribbed belt pulley; for example, at the crankshaft, servo pump etc. Any standard 1/2" ratchet or sliding T bar can be used as a holding tool.

Scope of Delivery: KL-0155-42 V-Ribbed Belt Pulley Puller

Part No.	Description	Qty
KL-0155-4201	Bridge	1
KL-0155-4202	Pressure Piece with O-Ring and Balls	1
KL-0183-5401	Housing	1
KL-0183-5402	Spindle, M16x1.5x60mm	1
KL-0155-4203	Clamping Jaw, R70	2
KL-0155-4204	Bolt, Ø 6mm	2
KL-0155-4205	Bolt, Ø 12mm	2
KL-0155-4206	Slide Bush	2
KL-0155-4207	Flat-Head Screw, M10x30mm	2
KL-0350-0009	Shoulder Nut, M10	2



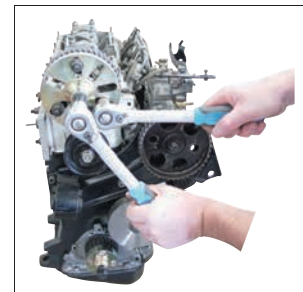
KL-0183-50 (Universal) (Patented) Timing Belt Sprocket Extractor and Reaction Tool

Universal application - Two tools in one. The tool can be used for loosening the central fixing screw as well as for removing the sprocket. Suitable for all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm. Hole diameters should not be less than 20mm.

The tool is used to hold the pulley in position while loosening/tightening the central fixing screw. It is also designed to prevent the pulley from rotating while removing the sprocket. For this, any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.

Scope of Delivery: KL-0183-50 Timing Belt Sprocket Extractor and Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-531	Hook, Ø 20mm	3
KL-0183-532	Hook, Ø 26mm	3
KL-0350-0009	Shoulder Nut, M10	3
KL-0183-540	Pressure Unit	1



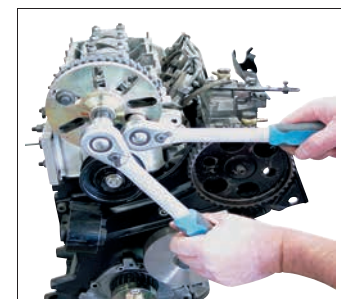
KL-0183-51 A (Patented) Timing Belt Sprocket Extractor and Reaction Tool with 2 Hooks

Applicable to VW-Audi, Seat, Škoda, Opel/Vauxhall, Ford, BMW, Mercedes, Peugeot, Citroën, Renault, Fiat, Japanese vehicles etc.

Universal application - Two tools in one. Very useful tool for loosening the central fixing screw and for removing the sprocket. Suitable for all the perforated timing belt sprockets with a pitch circle diameter of from 70-100mm. Hole diameters should not be less than 16.5mm. The tool is used to hold the pulley in position while loosening/tightening the central fixing screw. It is also designed to prevent the pulley from rotating while removing the sprocket. For this, any standard 1/2" ratchet or 1/2" sliding T-Bar can be used as a holding tool.

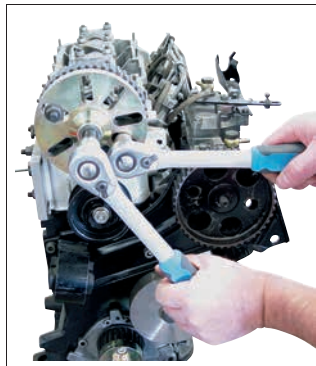
Scope of Delivery: KL-0183-51 A Timing Belt Sprocket Extractor and Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-533	Hook, Ø 16.5mm	2
KL-0350-0009	Shoulder Nut, M10	2
KL-0183-540 A	Pressure Unit	1



Accessories:

- KL-0183-531 Hook, Ø 20mm
- KL-0183-532 Hook, Ø 26mm



KL-0183-52

Timing Belt Sprocket Extractor/Reaction Tool

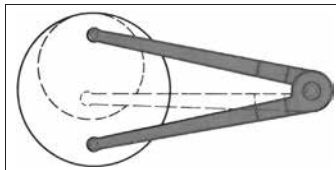
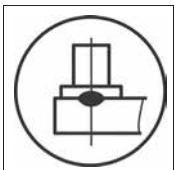
Applicable to injection pump and timing belt sprockets as found in Nissan, Renault, Dacia and Suzuki 1.5 dCi/DDiS Common Rail Diesel engines. Fitted, e.g., to Renault Clio II, Clio III, Fluence, Kangoo, Kangoo II, Laguna III, Megane II, Megane III, Scenic/Grand Scenic II, Scenic/Grand Scenic III, Logan, Logan MCV, Modus, Modus/Grand Modus II, Twingo II; Dacia Duster, Logan Pick-up, Logan Van/Express; Suzuki Jimny; Nissan Cube, Juke, Kubistar, Micra, Note, NV200, Qashqai, Qashqai 2, Tiida. (Engine codes: K9K, K9K 262, K9K 266, K9K 299, K9K 700, K9K 702, K9K 704, K9K 706, K9K 710, K9K 712, K9K 714, K9K 716, K9K 716, K9K 718, K9K 722, K9K 724, K9K 728, K9K 729, K9K 732, K9K 740, K9K 750, K9K 752, K9K 760, K9K 762, K9K 764, K9K 766, K9K 768, K9K 770, K9K 772, K9K 774, K9K 780, K9K 782, K9K 790, K9K 792, K9K 794, K9K 796, K9K 800, K9K 802, K9K 804, K9K 806, K9K 808, K9K 830, K9K 832, K9K 834, K9K 836, K9K 837, K9K 838, K9K 842, K9K 846, K9K 884, K9K 892, K9K 894, K9K 896, K9K 898)

Suitable for use on perforated injection pump and timing belt sprockets with a pitch circle diameter of from 70-100mm. The hole diameter should not be less than 16.5mm; also suitable for slotted holes with a width of 15mm. In conjunction with a 1/2" reversible ratchet, the timing belt sprocket extractor/reaction tool is used to hold the injection pump-/ timing belt sprocket in position while loosening/tightening the central fixing screw. It also allows for the removal of the timing belt sprocket from the camshaft/injection pump shaft without risk of damage. An indispensable tool set when changing the coolant pump allowing the user to remove the injection pump sprocket located in front of the pump.

Scope of Delivery: KL-0183-52 Timing Belt Sprocket Extractor/Reaction Tool

Part No.	Description	Qty
KL-0183-510	Perforated Puller Disc	1
KL-0183-534	Hook (oval)	2
KL-0183-540 A	Pressure Unit	1
KL-0350-0009	Hex Shoulder Nut, M10	2

6



KL-0149-131

Pin-Type Face Spanner, Ø14-100mm, Pin Ø5mm

Applicable to VW-Audi engines: 1.9 TDI/PD, 2.0 TDI/PD, 2.5 TDI, 2.7 Turbo, 3.0 TFSI/TSI etc.

Designed to hold the pulley in position when removing/installing the Visco-Fan; suitable for use on many VW-Audi engines.

Technical Data:

Ø:	14-100mm
Pin Ø:	5mm
Pin height:	6mm
Overall length:	215mm

KL-0282-39

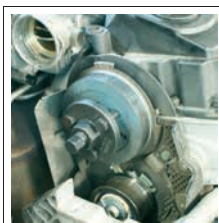
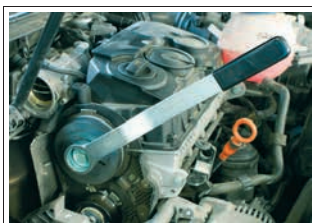
Puller Tool Set, Pumpe-Düse (Unit Injector)

Applicable to the VW-Audi, Ford, Seat, Škoda 3- and 4-cylinder (1.2, 1.4, 1.6, 1.9 and 2.0 litre) TDI Pumpe-Düse (unit injector) engines as installed in: VW Eos, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran; Audi A1, A3, A4, A5, A6, Q5, TT; Seat Altea, Exeo, Ibiza, Leon, Toledo; Škoda Fabia, Oktavia, Praktik, Roomster, Superb, Yeti. (Engine codes: CAGA, CAGB, CAGC, CAHA, CAHB, CAYA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CEGA, CFFA, CFFB, CFFD, CFFE, CFGB, CFHA, CFHB, CFHC, CFHF, CFJA, CGLA, CGLB, CJAA, CJCA, CJCB, CLCA, CLCB, CLJA, CLLA, CMEA)

This tool set is designed for the easy and professional removal of camshaft hubs. It is required, for example, when replacing the cylinder head gasket on 1.9 litre engines, when removing and replacing the camshaft, and for the repair of engines/cylinder heads. The KL-0282-391 reaction wrench enables the camshaft hub fixing screw to be loosened and tightened correctly. The KL-0282-392 puller allows for the accurate removal of the camshaft hub from the camshaft taper.

Scope of Delivery: KL-0282-39 Puller Tool Set, Pumpe-Düse (Unit Injector)

Part No.	Description	Qty
KL-0282-391	Counter-Holding Tool	1
KL-0282-392	Puller for Camshaft Hub	1



KL-0282-50

Puller for Timing Belt Sprocket (Crankshaft)

Suitable for use on VW-Audi 4 and 5-cylinder engines.
Designed to remove the crankshaft timing belt sprocket.



KL-0184-021

Counter-Holding Tool, VW

Applicable to VW-Audi (2.4 and 2.5 litre) 4- and 5-cylinder engines, both with and without vibration damper; as found on: VW Crafter, T4.
(Engine codes: AJA, BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB)

This tool is designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw. An indispensable tool when replacing timing belts, sealing rings or flywheels, as well as for engine repairs.

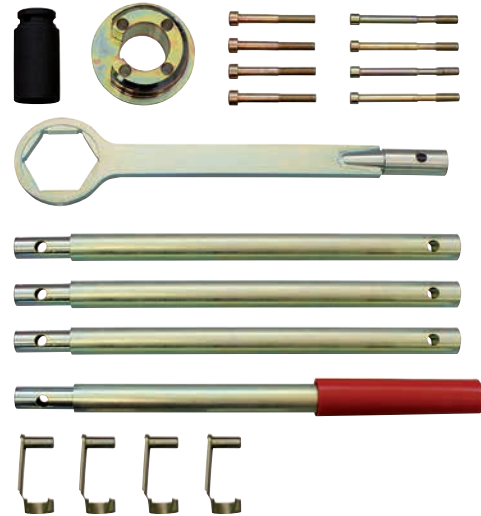
Technical Data:

Overall length (assembled tool):	1.8m
Length of extension tube:	400mm
Length of extension tube with protective handle:	403mm
Length of base tool:	401mm
Drive of hex socket:	1/2"

Scope of Delivery:

KL-0184-021 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0210	Counter-Holding Tool (base tool with adaptor)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	3
KL-0184-0103	Folding Spring Bolt	4



KL-0184-023

Counter-Holding Tool, VW

Applicable to VW 1.4 16V and 1.6 16V petrol engines; as installed in VW Beetle, Bora, Caddy/Caddy Maxi, Golf, Lupo, Polo.
(Engine codes: AHW, APE, AQQ, ARC, ARR, ATN, AUA, AUB, AUS, AVY, AZD, BBY, BBZ, BCA, BCB, BKY, BUD)

This tool is used to counter-hold the crankshaft pulley while loosening and tightening the crankshaft central screw.

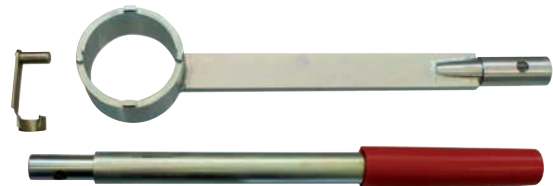
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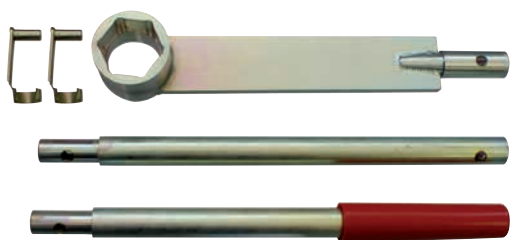
Overall length (of assembled tool):	739mm
Length of extension tube with protective handle:	403mm
Length of base tool:	386mm

Scope of Delivery:

KL-0184-023 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0230	Counter-Holding Tool (base tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0103	Folding Spring Bolt	1





Technical Data:

Length of assembled tool:	1.06m
Length of extension tube with protective handle:	403mm
Length of extension tube:	400mm
Length of base tool:	361mm

KL-0184-024

Counter-Holding Tool, VW

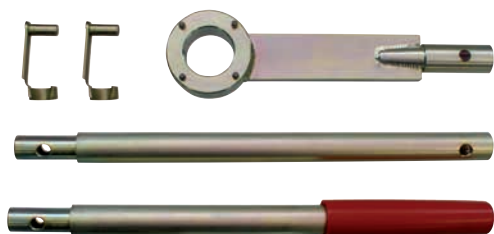
Applicable to VW-Audi, Seat vehicles, and Ford Galaxy equipped with either a 2.3, 2.8, 3.2, 3.6, 4.0 or 6.0 litre engine; such as VW Beetle, Bora, Sharan, Eos, Golf, Touareg, Transporter T5, Passat CC, Passat, Phaeton; Audi A3, A8, Q7, TT; Seat Alhambra, Leon, Toledo; Ford Galaxy.

(Engine codes: AGZ, AQN, AUE, AXZ, AYL, AYT, AZZ, BAA, BAN, BAP, BDB, BDE, BDL, BDM, BDN, BDP, BFH, BHE, BHK, BHL, BHT, BJN, BJS, BKJ, BKK, BKL, BMJ, BML, BMV, BMX, BRJ, BRK, BRN, BRP, BSB, BTE, BTT, BUB, BWS, CBRA)

Designed to counter-hold the crankshaft pulley while loosening/tightening the crankshaft central screw.

Scope of Delivery: KL-0184-024 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0240	Counter-Holding Tool (base tool)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	1
KL-0184-0103	Folding Spring Bolt	2



Technical Data:

Length of assembled tool:	980mm
Length of base tool:	276mm
Length of extension tube:	400mm
Length of extension tube with protective handle:	403mm

KL-0184-025

Counter-Holding Tool, VW

Applicable to VW-Audi, Seat, Škoda vehicles equipped with either a 1.8 or 2.0 TSI/TFSI engine; such as VW Golf, Eos, Jetta, Passat, Passat CC, Scirocco, Sharan, Tiguan; Audi A3, A4, A5, Q5, TT; Seat Toledo, Altea/Altea XL, Exeo, Leon; Škoda Octavia II, Superb II, Yeti.

(Engine codes: BYT, BZB, CABA, CABB, CABD, CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CDAA, CDAB, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CFKA, CGYA)

For counter-holding the crankshaft vibration damper while loosening and tightening the crankshaft central screw.

Scope of Delivery: KL-0184-025 Counter-Holding Tool, VW

Part No.	Description	Qty
KL-0184-0250	Counter-Holding Tool (Base Tool with Pins)	1
KL-0184-0101	Extension Tube with Protective Handle	1
KL-0184-0102	Extension Tube	1
KL-0184-0103	Folding Spring Bolt	2



Technical Data:

Drive:	1/2"
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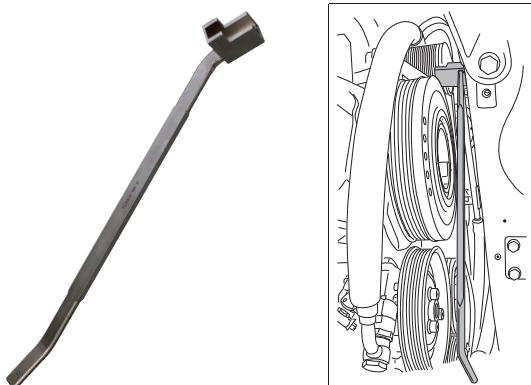
KL-0284-16

Tensioner Tool

Applications: VW Polo, Golf, Passat, T4 and Audi.

For V-ribbed belts.

When changing the V-ribbed belt, the automatic tensioner pulley can be loosened by means of the KL-0284-16 tensioner tool.



KL-0284-12

Tensioner Tool (Ribbed V-Belt)

Suitable for use on ribbed V-belts as found in VW Polo, Golf, Passat, T4 and Audi. (Engine codes: ASN, BBJ)

The KL-0284-12 tensioner tool enables the automatic tensioner pulley to be released when replacing a ribbed V-belt.

Advantage:

The lever head attachment is reversible/interchangeable.

KL-0284-92

Tension Pulley Spanner, Size (waf) 16mm

Universal application.

Particularly useful on VW-Audi 1.9 and 2.0 TDI engines.

(Engine codes: ASZ, ATD, AXA, AXR, BLS, BLT, BMT, BPX, BUK, BXJ)

This tool is designed to pre-tension the auxiliary belt tensioner when the removal and installation of the belt is to be performed in situ on the vehicle. THE ideal spanner for use in areas where space is at a premium.



Technical Data:

Size (waf):	16mm
Length:	295mm

KL-0284-15

V-Ribbed Belt Adjustment Tool

(via the alternator)

Suitable for use on 1.4, 1.6 and 2.0 litre VW engines on which the V-ribbed belt can only be tensioned via the spring-loaded alternator.

(Engine codes: AMF, AXX, BAH, BBY, BBZ, BCA, BHZ, BKR, BKY, BMS, BNM, BNV, BPY, BUD, BWA, BXW, BZC, CGGB)

Tool features strengthened and fluted pins which allow the tension on the V-ribbed belt to be released. The special fluted design prevents the pins from slipping out of the alternator boreholes.



Technical Data:

Drive:	1/2"
Diameter (pin to pin):	157mm

KL-0284-8

Holding Tool

Applications: VW Polo, Golf, Passat and Audi A4, etc.

Designed to counter-hold the pulley on the power steering pump.

Advantages:

- The 1/2" drive in the tool handle enables the tool to be extended, for example by a ratchet.
- Facilitates the loosening of stubborn fastening screws on the pulley.

Technical Data:

Length:	Height:	Inner Ø:	Screw retaining Ø:	Weight:
250mm	17mm	31mm	14mm	450g



KL-0284-11

Water Pump Holding Tool

Applications: VW-Audi etc.

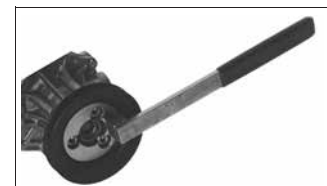
Designed to counter-hold **deep-drawn** water pump pulleys that are used when an air conditioning system is installed. For example necessary when loosening and tightening the fastening screws on the pulley.

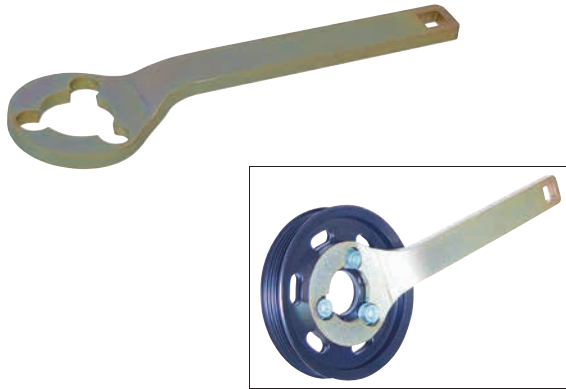
Advantages:

- Safe locking of the water-pump pulley via the fastening screws.
- Facilitates the loosening of stubborn fastening screws on the water pump pulley.

Technical Data:

Length:	Height:	Inner Ø:	Screw retaining Ø:	Weight:
300mm	40mm	31mm	14mm	450g





KL-0284-81 Holding Tool

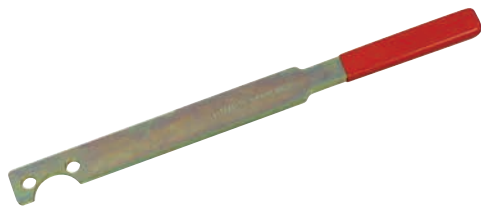
Suitable for use on VW Passat (1997 onwards) and Audi A4 (1999 onwards) etc.
Designed to counter-hold the pulley on the power steering pump. For example, necessary when loosening and tightening the fastening screws on the pulley.

Advantages:

- The 1/2" drive in the tool handle enables the tool to be extended, for example by a ratchet.
- Facilitates the loosening of stubborn fastening screws on the pulley.

Technical Data:

Length:	Height:	Inner-Ø:	Screw retaining Ø:	Weight:
250mm	23mm	38mm	16mm	450g



KL-0582-1 Holding Tool for Viscous Fan, BMW

Suitable for use on BMW engines, e.g. M20 and M30.
Designed to counter-hold the fan shaft when removing the viscous fan.

Technical Data:

Hole pitch:	38mm
Weight:	500g



KL-0582-2 Holding Tool for Viscous Fan, BMW

Suitable for use on BMW engines, e.g. M10, M20, M21, M30, M50, M51, M52, M52TU, M54, M56, M70, M73, S14 and S38.

Designed to counter-hold the fan shaft when removing the viscous fan.

Technical Data:

Hole pitch:	44,5mm
Weight:	400g

6

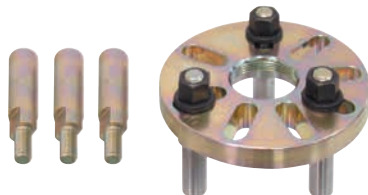


KL-0123-1 A Reaction Wrench, Size (waf) 32mm

Designed to counter-hold the viscous clutch drive shaft when removing/installing the viscous clutch on **BMW and Ford** vehicles.

Technical Data:

Size (waf):	32mm
Length:	280mm
Height:	11mm
Weight:	340g



KL-0366-81 Counter-Holding Tool, Mercedes

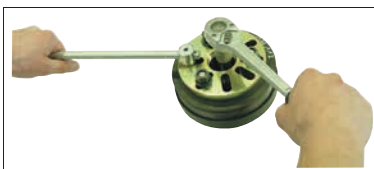
Suitable for use on Mercedes engines, e.g. M112, M113 and OM642, etc.

This tool is designed to counter-hold the crankshaft pulley when loosening/tightening the crankshaft central screw.

It is required when replacing pulleys or for engine repairs.

Scope of Delivery: KL-0366-81 Counter-Holding Tool, Mercedes

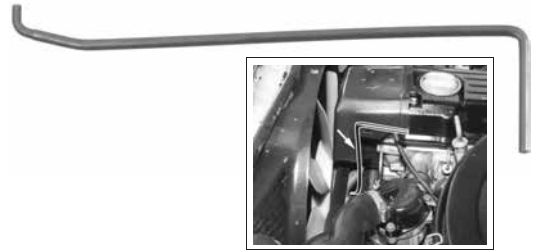
Part No.	Description	Qty
KL-0366-800	Bolt Set, Ø 20mm	1
KL-0366-801	Bolt Set, Ø 15mm	1
KL-0366-8001	Perforated Disc	1
KL-0350-2007	Hex Shoulder Nut, M12	3



KL-0367-1 Locking Tool

Suitable for use on Mercedes engines such as M103.

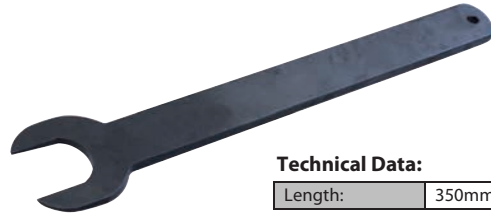
This tool allows for the loosening of the viscous fan pulley (locking the fan pulley).



KL-0366-5 Special Open-End Wrench, Size (waf) 36mm

Application: Mercedes engines M111, OM604, OM605 and OM606 (C- and E-Class).

This special open-end wrench is designed to loosen the screws on fans.



Technical Data:

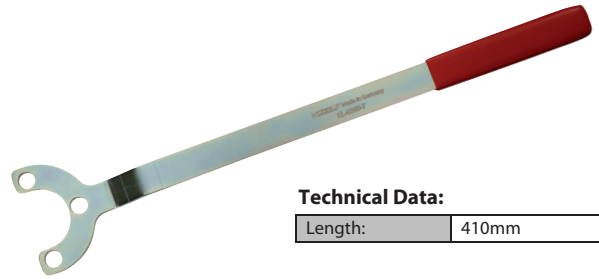
Length:	350mm
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KL-0366-7 Reaction Wrench

Suitable for use on Mercedes M111 engines as installed in C- and E-Class vehicles (4-cylinder 4-valve), OM604, OM605 and OM606.

With 3 boreholes.

In order to remove the cooling fan hub, the reaction wrench is bolted to the front face of the hub. The V-ribbed belt is not in place during this operation.



Technical Data:

Length:	410mm
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KL-0366-6 Special Open-Ended Wrench, Size (waf) 65mm

Suitable for use on Mercedes engines M103 (6-cylinder), M104 (6-cylinder 4-valve), M119 (8-cylinder 4-valve), M120 (12-cylinder 4-valve).

Special open-ended wrench for the removal/installation of the cooling fan hub.



Technical Data:

Length:	400mm
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KL-0384-1 Tensioner Tool (V-Ribbed Belt), Mercedes

Suitable for use on Mercedes Transporters of the 208 D to 410 D Series, equipped with either an OM601 or OM602 engine; also for Mercedes passenger cars fitted with a hydraulic pump for self-levelling suspension.

The tool is used to relieve tension on the V-ribbed belt by pushing back the automatic tensioner pulley. Due to the extremely limited space available, in particular on Transporter models, it is very difficult to push back the automatic tensioner pulley in order to change the V-ribbed belt. The KL-0384-1 tensioner tool is designed to make light work of this difficult job. The tool is operated by a 3/8" socket spanner.



KL-0384-10 Locking Tool, Mercedes

Applicable to Mercedes-Benz A-, B-, C-, CLC-, CLK-, CLS-, E-, G-, GL-, M-, R-, S-, SLK-, V-Class, Sprinter, Vito and Viano vehicles equipped with either a petrol engine (engine codes: M104, M111, M112, M119, M120, M272, M273) or a Diesel engine with 4-valve-technology.

(Engine codes: OM605, OM606, OM611, OM612, OM613, OM614, OM628, OM629, OM640, OM642, OM643, OM646, OM646 EVO, OM647, OM648, OM649)

Designed to lock the camshafts when removing the cylinder head.



Technical Data:

∅:	5.8/6.0mm
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Technical Data:

Size (waf):	36mm
Length:	280mm
Height:	11mm
Weight:	340g

KL-0123-2 A

Reaction Wrench, Size (waf) 36mm

Suitable for use on Ford, Opel/Vauxhall and GM vehicles.

Designed to counter-hold the viscous clutch drive shaft when removing/installing the viscous clutch.



KL-0483-10

Counter-Holding Tool, 39mm waf

Suitable for use on Opel/Vauxhall and GM 1.6 litre OHC engines.

(Engine codes: X16S2R, Z16SE)

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

Technical Data:

Size (waf):	39mm
Drive:	1/2"
Length:	90mm
Weight:	110g



KL-0483-11

Counter-Holding Tool, 41mm waf

Suitable for use on Opel/Vauxhall and GM 1.2, 1.3, 1.4, 1.6 litre OHC engines; Daewoo 1.4, 1.5, 1.6, 1.8; Chevrolet 1.4, 1.6. (Engine codes: A13DM/14SMS, A15DM/15SMS, A16DM, A16DMS, F14D3, F14S3, F16D3, F18N, LXT, Z16SE)

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

Advantages:

- Ensures the viscous clutch is securely counter-held.
- Prevents damage to the viscous clutch.
- High-quality tool due to a special manufacturing process.

Technical Data:

Size (waf):	41mm
Drive:	1/2"
Length:	90mm
Weight:	110g



KL-0483-12

Counter-Holding Tool, 46mm waf

Suitable for use on Opel/Vauxhall and GM OHC engines.

This tool is designed to turn the water pump for adjusting the tension on the drive belt.

Technical Data:

Size (waf):	46mm
Drive:	1/2"
Length:	90mm
Weight:	110g



Technical Data:

Length of tension lever:	465mm
Ø of retaining pin:	4.2mm



KL-1381-30

Tensioner Tool with Retaining Pin

Applicable to PSA (Citroën, Peugeot), Fiat and Ford 1.4 und 1.6 litre Diesel engines as found in: Citroën Berlingo/Berlingo First I/II, C1, C2, C3 I/II/First/Classic, C3 III, C3 Picasso, C3 Pluriel, C4 II, C4 Picasso/Grand Picasso, C5 III, DS3, Berlingo III, DS4, DS3, DS4, Xsara II, Xsara Picasso and Peugeot Partner III, 206, 207, 207 CC, 308, 308 CC, 508, 3008, 5008. (Engine codes: DV4, DV6)

Facilitates the tensioning and locking of V-ribbed belt tensioners.

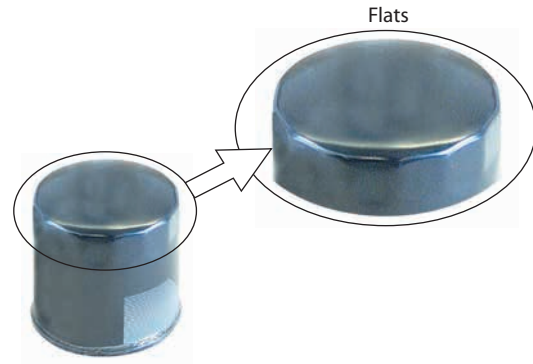
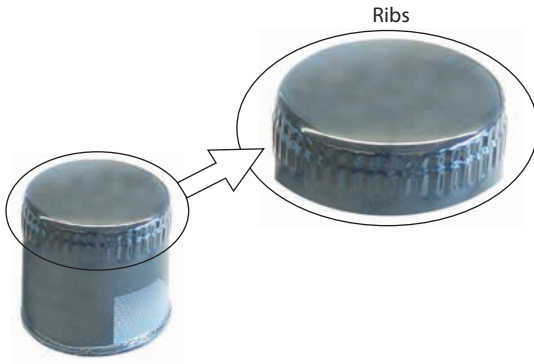
This tool allows for the removal/installation of the V-ribbed belt in situ on the vehicle even in very limited space conditions.

Scope of Delivery: KL-1381-30 Tensioner Tool with Retaining Pin

Part No.	Description	Qty
KL-1381-3021	Retaining Pin (angled), Ø 4.2mm	1
KL-1383-301	Tension Lever with Base Body	1

To identify the suitable oil filter socket, proceed as follows:

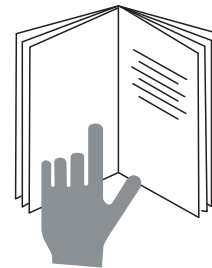
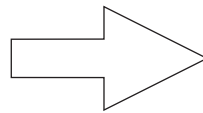
1. Check whether the filter has flats or ribs.
2. Count the number of ribs or flats.



3. With the aid of a calliper gauge, measure the width across flats (waf) size.



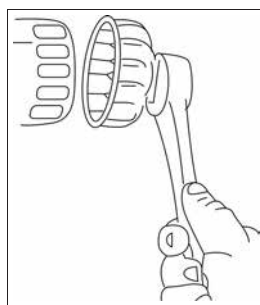
4. Choose the suitable oil filter socket with the help of the Overview Table below.



Overview Table of Oil Filter Sockets:

Size	Size (width across flats)	Part No.	Description
27mm	27mm	KL-0122-52	Oil Filter Socket
32mm	32mm	KL-0122-51	Oil Filter Socket
36mm	36mm	KL-0122-5	Oil Filter Socket
37mm	37mm	KL-0122-54	Oil Filter Socket
64mm	64mm, 14 flats	KL-0122-308	Oil Filter Socket
65mm	65mm, 14 flats	KL-0122-309	Oil Filter Socket
66mm	Ø 66mm, 6 ribs	KL-0122-318	Oil Filter Socket
66mm	Ø 66mm, 6 ribs	KL-0122-601	Oil Filter Socket
67mm	67mm, 14 flats	KL-0122-311	Oil Filter Socket
72mm	72mm, 14 flats	KL-0122-310	Oil Filter Socket
73mm	73mm, 10 flats	KL-0122-612	Oil Filter Socket
74mm	74mm, 14 flats	KL-0122-301	Oil Filter Socket
74mm	74mm, 14 flats	KL-0122-3	Oil Filter Socket
74mm	74mm, 15 flats	KL-0122-302	Oil Filter Socket
74mm	74mm, 30 ribs	KL-0122-306	Oil Filter Socket
74mm	74mm, 8 flats	KL-0122-323	Oil Filter Socket
76mm	Ø 76mm, 12 ribs	KL-0122-219	Oil Filter Socket (aluminium)
76mm	Ø 76mm, 12 ribs	KL-0122-319	Oil Filter Socket
76mm	Ø 76mm, 12 ribs	KL-0122-7	Oil Filter Wrench
76mm	76mm, 15 flats	KL-0122-303	Oil Filter Socket
78mm	78mm, 15 flats	KL-0122-332	Oil Filter Socket
79mm	79mm, 15 flats	KL-0122-305	Oil Filter Socket

Size	Size (width across flats)	Part No.	Description
82mm	82mm, 15 flats	KL-0122-314	Oil Filter Socket
84mm	84mm	KL-0122-609	Oil Filter Socket
86mm	Ø 86mm, 18 ribs	KL-0122-312	Oil Filter Socket
86mm	Ø 86mm, 18 ribs	KL-0122-212	Oil Filter Socket (aluminium)
86mm	86mm, 16 flats	KL-0122-326	Oil Filter Socket
86mm	86mm, 16 flats	KL-0122-426	Oil Filter Socket (reinforced design)
89mm	89mm, 15 flats	KL-0122-315	Oil Filter Socket
91mm	91mm, 15 flats	KL-0122-304	Oil Filter Socket
92mm	92mm, 10 flats	KL-0122-324	Oil Filter Socket
92mm	92mm, 36 ribs	KL-0122-307	Oil Filter Socket
93mm	Ø 93mm, 45 ribs	KL-0122-317	Oil Filter Socket
93mm	Ø 93mm, 45 ribs	KL-0122-217	Oil Filter Socket (aluminium)
95mm	95mm, 15 flats	KL-0122-334	Oil Filter Socket
96mm	Ø 96mm, 18 ribs	KL-0122-313	Oil Filter Socket
96mm	Ø 96mm, 18 ribs	KL-0122-213	Oil Filter Socket (aluminium)
99mm	99mm, 15 flats	KL-0122-335	Oil Filter Socket
100mm	100mm, 15 flats	KL-0122-316	Oil Filter Socket
103mm	103mm, 14 flats	KL-0122-611	Oil Filter Socket
106mm	106mm, 15 flats	KL-0122-322	Oil Filter Socket
108mm	Ø 108mm, 18 ribs	KL-0122-321	Oil Filter Socket
108mm	Ø 108mm, 18 ribs	KL-0122-602	Oil Filter Socket
108mm	108mm, 15 flats	KL-0122-327	Oil Filter Socket



Technical Data:

Drive:	3/8"
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KL-0122-31 K Set of Oil Filter Sockets

The oil filter sockets with profile come in a reinforced design and are specifically adapted to the respective oil filter cartridges.

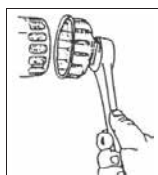
Scope of Delivery: KL-0122-31 K Set of Oil Filter Sockets

Part No.	Description	Applications:
KL-0122-301	Oil Filter Socket, Size (waf) 74mm, 14 Flats, 1 Step	Audi e.g. A3 (TDI); BMW 3-Series (E36 with 4-cylinder engines), Citroën; Fiat; Ford; Lancia; Mazda; Mercedes (e.g. CDI engines, C- and E-Class (with 4- and 6-cylinder petrol engines)); Nissan; Opel/Vauxhall; Peugeot; Porsche; Renault; Toyota; VW e.g. Golf (IV TDI), etc.
KL-0122-302	Oil Filter Socket, Size (waf) 74mm, 15 Flats, 2 Steps	Ford, Opel/Vauxhall, etc.
KL-0122-303	Oil Filter Socket, Size (waf) 76mm, 15 Flats, 2 Steps	VW-Audi, Mercedes, Opel/Vauxhall, Ford Focus III, etc.
KL-0122-304	Oil Filter Socket, Size (waf) 91mm, 15 Flats, 1 Step	Alfa Romeo, Fiat, Ford, Honda, Mazda, Mitsubishi, Nissan, Opel/Vauxhall, Porsche, Renault, Volvo, VW-Audi, etc.
KL-0122-305	Oil Filter Socket, Size (waf) 79mm, 5 Flats, 1 Step	Ford, Honda, Isuzu, Mazda, Nissan, Opel/Vauxhall, Subaru, Toyota, etc.
KL-0122-306	Oil Filter Socket, Ø 74mm, 30 Ribs, 1 Step	Ford, etc.
KL-0122-307	Oil Filter Socket, Ø 92mm, 36 Ribs, 1 Step	Ford, etc.
KL-0122-308	Oil Filter Socket, Size(waf) 64mm, 14 Flats, 1 Step	Fiat, Daihatsu, Nissan, Toyota, etc.
KL-0122-309	Oil Filter Socket, Size (waf) 65mm, 14 Flats, 2 Steps	Daihatsu, Toyota, etc.
KL-0122-310	Oil Filter Socket, Size (waf) 72mm, 14 Flats, 1 Step	Toyota, Mini Diesel, etc.
KL-0122-311	Oil Filter Socket, Size (waf) 67mm, 14 Flats, 1 Step	Mazda, Ford, etc.
KL-0122-314	Oil Filter Socket, Size (waf) 82mm, 15 Flats, 2 Steps	Honda, Mazda, Nissan, Subaru, Toyota, etc.
KL-0122-315	Oil Filter Socket, Size (waf) 89mm, 15 Flats, 1 Step	Honda, Isuzu, Mitsubishi, etc.
KL-0122-316	Oil Filter Socket, Size (waf) 100mm, 15 Flats, 1 Step	Isuzu, Mitsubishi, etc.
KL-0122-329	Adaptor 1/2" to 3/8"	
KL-0122-320	Plastic Storage Case	

6



3/8"



KL-0122-332 Oil Filter Socket, Size (waf) 78mm

Applications: Ford, Mitsubishi, Nissan, Toyota, etc.

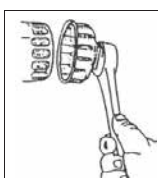
For oil filters with size 78mm (waf) and 15 flats.

Technical Data:

Drive:	3/8"
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3/8"



KL-0122-334 Oil Filter Socket, Size (waf) 95mm

Applications: Alfa Romeo, Chrysler, Ford, Toyota etc.

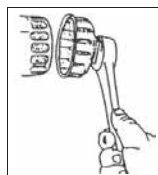
For oil filters with size 95mm (waf) and 15 flats.

Technical Data:

Drive:	3/8"
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3/8"



KL-0122-335 Oil Filter Socket, Size (waf) 99mm

Applications: Toyota Diesel etc.

For oil filters with size 99mm (waf) and 15 flats.

Technical Data:

Drive:	3/8"
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KL-0122-426

Oil Filter Socket,

Size (waf) 86mm, 16 Flats (reinforced design)

The ideal tool for Volvo vehicles, e.g. S40, S70 etc, etc.

Suitable for oil filters with size (waf) 86mm and 16 flats. Necessary to remove and install the oil filter cover when replacing the oil filter cartridge.

Technical Data:

Drive:	3/8"
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3/8"



KL-0122-3

Oil Filter Socket, Size (waf) 74mm, 14 Flats

Applications: VW-Audi, BMW, Citroën, Fiat, Ford, Lancia, Mazda, Mercedes, Nissan, Opel/Vauxhall, Peugeot, Porsche, Renault, Suzuki, Toyota, etc.

The ideal tool for Audi A3 (TDI); VW Golf (IV TDI), LT; BMW 3 Series (E36 with 4-cylinder engine); Porsche Cayenne, Boxster, 911; Mercedes CDI engines, as well as C- and E-Class (with 4- or 6-cylinder petrol engine).

Intended for use on oil filters with size (waf) 74mm and 14 flats.

Technical Data:

Drive:	22mm
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KL-0122-212

Oil Filter Socket (Aluminium), Ø 86mm, 18 Ribs

Applications: VW-Audi, Seat, Škoda etc.

The ideal tool for VW, e.g.: Golf (III), Passat (until 1996 with TDI engine); Audi, e.g.: A6 (until 1996 with TDI engine 85 kW/115bhp); Renault, e.g.: Clio, Rapid and Laguna (1.9 D), Safrane; Espace (III/2.1 D), etc.

Intended for use on oil filters with Ø 86mm and 18 ribs.

Technical Data:

Drive:	3/8"
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3/8"



KL-0122-213

Oil Filter Socket (Aluminium), Ø 96mm, 18 Ribs

Applications: VW-Audi, Seat, Škoda etc.

The ideal tool for Audi, e.g.: A4 (with TDI engine); VW, e.g.: Touareg (with V10 TDI engine), Passat (1997 onwards, with TDI engine); Renault, e.g.: Laguna, Safrane, Espace III (2.2 D), R19, Rapid and Megane (1.9 and 2.1 D/TD), Master (2.5 and 2.8 D/TD); Opel/Vauxhall, e.g.: Movano (2.5 and 2.8 D/TD), etc.

Intended for use on oil filters with Ø 96mm and 18 ribs.

Technical Data:

Drive:	3/8"
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3/8"



KL-0122-217

Oil Filter Socket (Aluminium), Ø 93mm, 45 Ribs

Applications: VW-Audi, Seat, Škoda, Renault etc.

The ideal tool for VW-Audi (2.4, 2.6 and 2.8 TDI Diesel engines) and Renault Maxity etc.

Intended for use on oil filters with Ø 93mm and 45 ribs.

Technical Data:

Drive:	3/8"
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3/8"



Accessories (on demand):

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm



3/8"



KL-0122-219

Oil Filter Socket (Aluminium), Ø 76mm, 12 Ribs

Applications: VW-Audi, Mercedes, Seat, Škoda etc. (with Purflux Filter LS 918).
The ideal tool for Mercedes vehicles with either an M102 or M103 6-cylinder petrol engine.

Intended for use on oil filters with Ø 76mm and 12 ribs. Thanks to the particularly compact design of the oil filter socket, oil filters on Mercedes M102 and M103 engines can be replaced without the need for removing the induction pipe.

Technical Data:

Drive:	3/8"
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3/8"



KL-0122-601

Oil Filter Socket, Ø 66mm, 6 Ribs

Suitable for use on Renault vehicles such as Twingo, Clio (with a D petrol engine and filter no. 77 00 869 029).

Intended for use on oil filters with Ø 66mm und 6 ribs.
 This socket allows for the quick and easy removal of stuck oil filters.

Technical Data:

Drive:	3/8"
Weight:	191g

3/8"



KL-0122-602

Oil Filter Socket, Ø 108mm, 18 Ribs

Suitable for use on Renault vehicles such as Trafic, Master, Safrane (with an S8U engine and filter no. 77 00 860 823).

Suitable for oil filters with Ø 108mm and 18 ribs.
 This socket allows quick and easy removal of stuck oil filters.

Technical Data:

Drive:	3/8"
Weight:	289g

6

3/8"



KL-0122-612

Oil Filter Socket, Size (waf) 73mm, 10 Flats

Suitable for use on Alfa Romeo GTA.

Suitable for oil filters and oil filter housings with 10 flats and size (waf) 73mm.
 This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

Technical Data:

Weight:	270g
Drive:	3/8"

3/8"



KL-0122-609

Oil Filter Socket, Size (waf) 84mm, 14 Flats

Suitable for use on oil filters and/or oil filter housings with 14 flats and size (waf) 84mm, e.g. in Mercedes OM642 CDI engines as fitted to: C-Class (320), CLS (320), E-Class (280, 320), S-Class (320), ML (280, 320), etc.

Intended for use on oil filters with size (waf) 84mm with 14 flats. This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

Technical Data:

Size:	84mm, 14 flats
Drive:	3/8"
Weight:	500g

KL-0122-611

Oil Filter Socket, Size (waf) 103mm, 14 Flats

Suitable for use on 3.0 litre Diesel engines as found in Opel/Vauxhall Signum (Z30DT; Y30DT) and Renault Espace (IV), VEL Satis etc.

Intended for use on oil filters/oil filter housings with size (waf) 103mm and 14 flats. This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.



Technical Data:

Drive:	3/8"
Weight:	560g

KL-0122-7

Oil Filter Wrench with Handle, Ø 76mm, 12 Ribs

Applications:

- Ford with a 1.8 Diesel engine and Motorcraft filter EFL 344
- Peugeot with Purflux filters
- Renault, e.g.: R5, Twingo, Rapid (with C Petrol engines); Clio, Kangoo (with E Petrol engines); R19, Espace III, Laguna (with F Petrol engines); Megane, Kangoo (with K Petrol engines, only those with filter No. 77 00 873 583); R21, Espace I + II (with F-Petrol engine); Trafic (with J Petrol engine, only those with filter No. 77 00 720 978)
- Honda, e.g. Prelude (BA4 2.0 16V)
- Land Rover Defender 2.5 Diesel (DD5) with filter No. LPX 100 590, etc.

Designed for oil filters with Ø 76mm and 12 ribs. Allows quick and easy removal of stuck oil filters.



Technical Data:

Length:	326mm
Weight:	293g

KL-0122-191

Oil Filter Socket (universal), Ø 60-80mm

Universally suitable for use on oil filters with Ø 60-80mm as found in passenger cars. Allows the user to loosen oil filters quickly and safely. Retaining jaws grip the filter without the risk of slipping. The ideal tool when space is at a premium.

Technical Data:

Clamping range:	Ø 60-80mm
Drive (square):	1/2" or 21mm waf



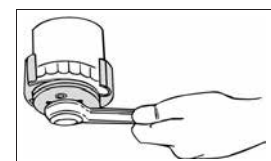
KL-0122-13

Oil Filter Socket, Ø 64-80mm

The socket allows for the quick and safe loosening of oil filters on European vehicles. Retaining jaws grip the filter without the risk of slipping. The ideal tool when space is at a premium.

Technical Data:

Clamping range:	Ø 64-80mm
Weight:	400g
Drive:	3/8"



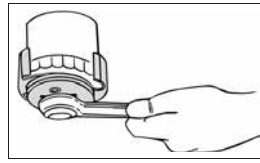
Accessories (on demand):

3093 U-20 CODE:1556800 - Reversible ratchet 3/8" 200mm





3/8"



KL-0122-14

Oil Filter Socket, Ø 80-98mm

The socket allows for the quick and safe loosening of oil filters on European vehicles. Retaining jaws grip the filter without the risk of slipping. The ideal tool when space is at a premium.

Technical Data:

Clamping range:	Ø 80-98mm
Weight:	400g
Drive (square):	3/8"



KL-0122-192

Oil Filter Socket (universal), Ø 80-110mm

Universally suitable for use on oil filters with Ø 80-110mm as found in passenger cars.

Allows the user to loosen oil filters quickly and safely. Retaining jaws grip the filter without the risk of slipping. The ideal tool when space is at a premium.

Technical Data:

Clamping range:	Ø 80-110mm
Drive (square):	1/2" or 22mm waf



KL-0122-193

Oil Filter Socket (universal), Ø 110-145mm

Universally suitable for use on oil filters and air dryer cartridges with Ø of 110-145mm as found in HGVs.

Allows the user to loosen oil filters and air dryer cartridges quickly and safely. The special design of the tool and of the retaining jaws ensure that even very tight-fitting/stuck oil filters and air dryer cartridges can be removed without risk of slipping. The ideal tool when space is at a premium.

Technical Data:

Clamping range:	Ø 110-145mm
Drive (square):	1/2" or 24mm waf



KL-0122-54

Oil Drain Plug Socket, Size (waf) 37mm

Suitable for use on VW-Audi, Seat and Škoda 1.8 and 2.0 FSI/TFSI petrol engines with oil drain plug at the plastic oil filter housing. For example, fitted to: Audi A3 (8P1, 8PA), A4 (8EC, 8ED, 8H7, 8HE), A6 (4F2, 4F5), TT (8J3, 8J9); Seat Altea (5P1, 5P5), Leon (1P1), Toledo (III [P2]); Škoda Octavia (1Z3, 1Z5); VW Eos, Golf (V [1K1, 5M1]), Jetta (III [1K2]), New Beetle (9C1, 1C1, 1Y7), Passat (3C2, 3C5), Touran (1T1, 1T2). (Engine codes: AXW, BGB, BLX, BLR, BLY, BVX, BVY, BVZ, BWE)

Designed for the professional loosening/tightening of the oil drain plug (size 37mm waf) at the plastic oil filter housing. Necessary, for example, when draining the engine oil from the oil filter housing using the **KL-0288-10** oil drain adaptor.



3/8"



KL-0122-5

Oil Filter Socket, Size (waf) 36mm

Suitable for use on BMW 1 Series, 3 Series, 5 Series; Mini One, Cooper, Cooper S, and VW Touareg, T5, as well as for Mercedes Diesel engines OM604, OM605, OM606, BMW engines M52 (6-cyl.), M60 (8-cyl.), M70 (12 cyl), and the VW VR6 engine.

This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

Technical Data:

Drive:	3/8"
Size:	36mm

KL-0122-51

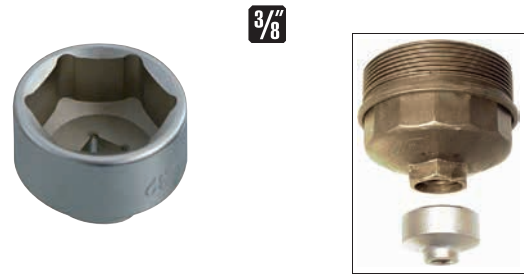
Oil Filter Socket, Size (waf) 32mm

Suitable for use on Opel/Vauxhall; e.g. X10XE, X12XE, Y17DT, Y17DTL engines, Mercedes HGV, e.g. OM364, OM366 engines, and Škoda Superb.

This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

Technical Data:

Drive:	3/8"
Size (waf):	32mm



KL-0122-52

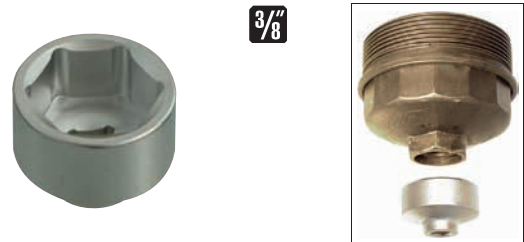
Oil Filter Socket, Size (waf) 27mm

Suitable for use on Mercedes, e.g. A-Class (W169), B-Class (W245), C-Class (W204) and Smart.

This oil filter socket is intended for the removal and installation of the oil filter cover when replacing the oil filter cartridge.

Technical Data:

Drive:	3/8"
Size (waf):	27 mm



KL-0122-59 A

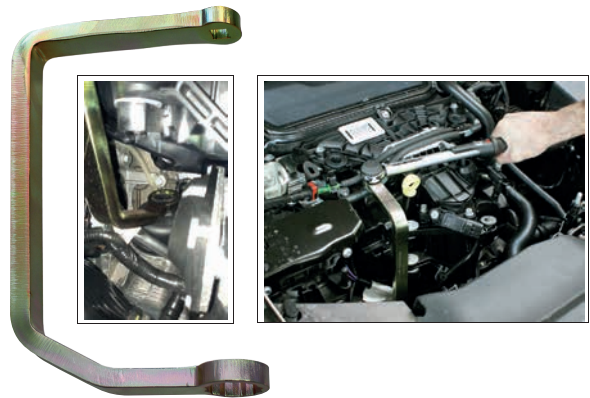
Oil Filter Socket Wrench, Size (waf) 27mm

Suitable for use on the following TwinCam (DOHC) Diesel engines: PSA and Ford 2.0 Hdi and Duratorq TDCi (DW10C), as well as PSA, Ford and Jaguar 2.2 Hdi and Duratorq TDCi (DW12C). For example, fitted to Peugeot 308, 3008, 5008, 407, 407 Coupé, 508, RCZ; Citroën C4 Picasso, C5, C5 Mk2, C8, DS4, DS5; Ford Mondeo Mk3, C-Max, Galaxy Mk2, Galaxy Mk3, S-Max, Kuga and Jaguar XF 2.20 Sportbrake.

This oil filter wrench is designed for the removal and installation of oil filter covers that are difficult to access. An indispensable tool when replacing the oil filter cartridge.

Technical Data:

Size:	27mm
Drive (square):	3/8"
Length:	234mm



KL-0122-3300 K

(Universal)

Set of Oil Filter Sockets, in a Plastic Storage Case

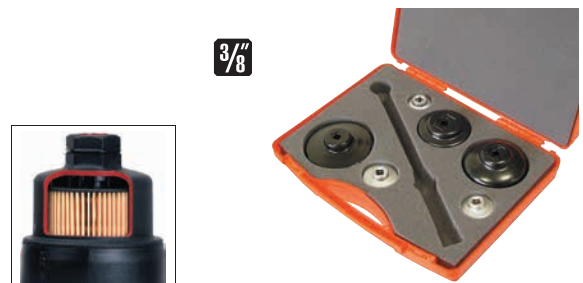
Universally applicable, e.g., to: VW-Audi e.g.: TDI - Golf (III), Passat, A4; TDI PD - A2, A3, A4, A6, TT, Lupo, Polo, Golf (IV and V), Passat, Sharan, Touareg, T4, T5; BMW e.g.: 1 Series (E87), 3 Series (E36, E46), 5 Series (E39, E60), 7 Series (E38, E65), Z3, Z4, X3, X5; Mini e.g.: Mini One, Cooper, Cooper S; Mercedes e.g.: A-, C-, E- and S-Class as well as Sprinter; Opel/Vauxhall e.g.: Agila, Astra (G and H), Corsa C, Meriva, Signum, Vectra (B and C), Zafira.

Universal application. The set covers most vehicles equipped with a paper oil filter and either a plastic or metal screw cap.

When installing the oil filter, the plastic or metal screw cap must be tightened to a given torque. Non-observance can lead to damage to the plastic screw cap. The new KL-0122-3300 K oil filter tool set with its 6 oil filter sockets, together with the torque wrench 4549-05 (accessory), is the perfect solution for this job.

Scope of Delivery: KL-0122-3300 K Set of Oil Filter Sockets

Part No.	Description	Qty
KL-0122-301	Oil Filter Socket, 74mm, 14 flats	1
KL-0122-313	Oil Filter Socket, Ø 96mm, 18 ribs	1
KL-0122-326	Oil Filter Socket, 86mm, 16 flats	1
KL-0122-5	Oil Filter Socket, 36mm	1
KL-0122-51	Oil Filter Socket, 32mm	1
KL-0122-52	Oil Filter Socket, 27mm	1
KL-0122-3390	Plastic Storage Case	1



Accessorie:
4549-05 - TORCOFIX K Code: 1545140
5-50Nm, Length: 335mm, Scaling: 0.25Nm, Weight: 540g



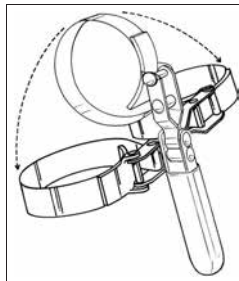
Technical Data:

Length:	334.5mm
Weight:	540g
Nm:	5-50
lbf-ft:	3.5-37

4549-05

Torque Wrench TORCOFIX K

- Controlled screw tightening in the range of 5-50Nm.
- Adjustable torque wrench with square drive and integrated ratchet-head function.
- For controlled bi-directional tightening.
- 3/8" interchangeable mushroom head square drive with ball-locking mechanism DIN 3120 - A 6,3, ISO 1174.
- In accordance with DIN EN ISO 6789, traceable to national norms.
- Lever-breaking mechanism with a castor guarantee tactile-impulse and audible actuation signals.
- Actuation accuracy: +/- 3% tolerance of the scale set torque.
- Robust, satin-matt chrome-plated steel tube construction with chrome-plated ratchet and high-quality plastic components.
- Double scale N-m and lbf-ft underneath a window with a magnifying-glass effect.
- Additional micrometer scale with a N-m-graduation of 0.25Nm.
- Ergonomically shaped handy black plastic handle.
- Handle with an indentation in the middle of the handgrip as a calibration aid.



KL-0122-80..

"Swivel Grip" Oil Filter Wrench

Designed to loosen oil filters.

Self-adjusting mechanism allows the stainless steel band to re-adjust itself while loosening the filter. Swivel handle can be angled up to 90° via a pivot joint. THE ideal tool for use in confined spaces.

KL-0122-801 "Swivel Grip" Oil Filter Wrench, Ø 60-66mm

Technical Data:

Range:	Ø 60-66mm
Weight:	310g

KL-0122-802 "Swivel Grip" Oil Filter Wrench, Ø 73-82mm

Technical Data:

Range:	Ø 73-82mm
Weight:	370g

KL-0122-803 "Swivel Grip" Oil Filter Wrench, Ø 89-98mm

Technical Data:

Range:	Ø 89-98mm
Weight:	370g

KL-0122-804 "Swivel Grip" Oil Filter Wrench, Ø 105-112mm

Technical Data:

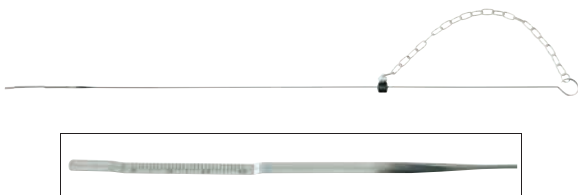
Range:	Ø 105-112mm
Weight:	400g

KL-0288-80

Oil Dipstick for VW-Audi

Suitable for use on VW-Audi vehicles equipped with either a petrol or Diesel direct-injection engine and an electronic oil level indicator (1.8 TFSI, 2.0 TFSI, 3.0 TFSI, 3.2 FSI, 2.0 TDI, 2.7 TDI and 3.0 TDI); e.g. found on Audi A4, A5, A7, A8, Q5 and VW Touareg.

Designed to manually check the engine oil level; for example, necessary when the oil sensor has been replaced.



KL-0288-20 K

Oil Filter Tool Set with Oil Drain Adaptor, VW

Suitable for use on VW-Audi, Seat and Škoda 1.8 and 2.0 FSI/TFSI petrol engines equipped with a plastic oil filter housing. Fitted to, e.g.: Audi A3 (8P1, 8PA), A4 (8EC, 8ED, 8H7, 8HE), A6 (4F2, 4F5), TT (8J3, 8J9); Seat Altea (5P1, 5P5), Leon (1P1), Toledo (III [P2]); Škoda Octavia (1Z3, 1Z5); VW Eos, Golf (V [1K1, 5M1]), Jetta (III [1K2]), New Beetle (9C1, 1C1, 1Y7), Passat (3C2, 3C5), Touran (1T1, 1T2). (Engine codes: AXW, BGB, BLX, BLR, BLY, BVX, BVY, BVZ, BWE)

The oil filter tool set with oil drain adaptor for VW allows the user to professionally drain the engine oil from the oil filter housing. It includes all the necessary tools to open, drain and unscrew/tighten plastic oil filter housings. First, undo the oil drain plug (waf 37mm) on the plastic oil filter housing using the oil drain plug socket. Next, screw oil drain adaptor into oil filter housing. This will cause a valve to open allowing the oil to be drained in a controlled way. Then, the empty oil filter housing can be easily unscrewed with the aid of the 74mm (waf) oil filter socket. The set is also intended to loosen/tighten plastic oil filter housings having a size of 36mm waf.



Scope of Delivery:

KL-0288-20 K Oil Filter Tool Set with Oil Drain Adaptor, VW

Part No.	Description	Qty
KL-0122-3	Oil Filter Socket, Size (waf) 74mm, 14 Flats	1
KL-0122-5	Oil Filter Socket, Size (waf) 36mm	1
KL-0288-10	Oil Drain Adaptor for Oil Filter	1
KL-0122-54	Oil Drain Plug Socket, Size (waf) 37mm	1
KL-0288-2090	Plastic Storage Case	1

KL-0288-10

Oil Drain Adaptor for Oil Filter

Suitable for use on VW-Audi 1.8 and 2.0 litre engines, e.g.: Audi A3 (8P1, 8PA), A4 (8EC, 8ED, 8H7, 8HE), A6 (4F2, 4F5), TT (8J3, 8J9); Seat Altea (5P1, 5P5), Leon (1P1), Toledo (III (5P2)); Škoda Octavia (1Z3, 1Z5); VW Eos, Golf (V [1K1, 5M1]), Jetta (III (1K2)), New Beetle (9C1, 1C1, 1Y7), Passat (3C2, 3C5), Touran (1T1, 1T2). (Engine codes: AXW, BGB, BLX, BLR, BLY, BVX, BVY, BVZ, BWE)

Allows the user to professionally drain the engine oil from the oil filter housing. Then, the empty oil filter housing can be removed without any trouble.

When screwing in the oil filter adaptor, a valve in the oil filter housing will be opened so that the oil can be drained in a controlled way.



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Technical Data:

Length of hose:	800mm
Connection thread:	S32x2

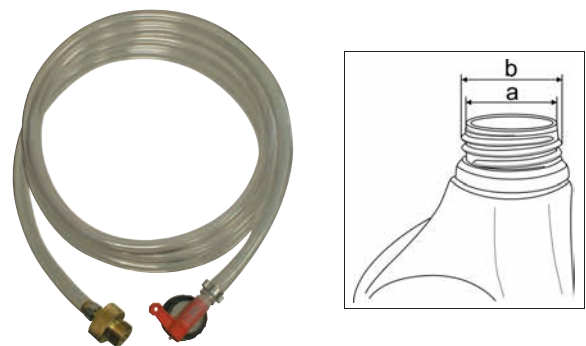
KL-0288-11

Oil Filler Adaptor for VW DSG Gearbox

Suitable for use on VW-Audi DSG gearboxes.

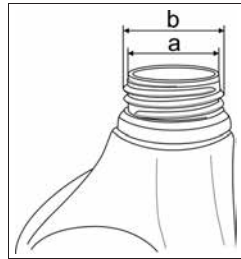
This tool is indispensable for the quick, easy and clean filling/re-filling of DSG gearboxes. The oil filler adaptor is screwed directly to the 1 litre oil reservoir (VAG G 052 182 A2).

The built-in shut-off valve ensures that the accurate quantity of oil is filled in, as well as professional working.



Technical Data:

Hose length:	2m
Gearbox connection thread:	M24x1.5
Dimensions of oil reservoir (a):	34mm
Dimensions of oil reservoir (b):	37.7mm



KL-0288-12

Oil Filler Adaptor for Audi DSG Gearbox

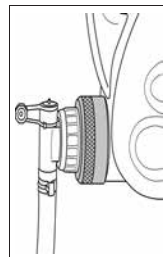
Suitable for use on Audi DSG gearboxes from 2008 onwards.

This tool is indispensable for the quick, easy and professional filling/re-filling of DSG gearboxes. The oil filler adaptor is screwed directly to the 1 litre oil reservoir (VAG G 052 529 A2).

The built-in shut-off valve ensures that the accurate quantity of oil is filled in, as well as professional working.

Technical Data:

Hose length:	2m
Gearbox connection thread:	M24x1.5
Dimensions of oil reservoir (a):	36.5mm
Dimensions of oil reservoir (b):	39.5mm

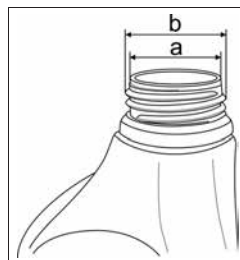


KL-0288-112

Adaptor for KL-0288-11

The **KL-0288-112** adaptor is used in conjunction with oil filler adaptor **KL-0288-11**. It is designed to connect DSG gearboxes to the 5 litre oil reservoirs from Febi (32390), Ravenol or Pentosin, thus enabling these gearboxes to be filled up directly.

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KL-0288-13

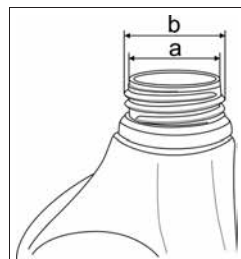
Oil Filler Adaptor for VW CVT Gearbox (Continuously Variable Transmission)

Suitable for use on VW-Audi CVT transmissions (continuously variable transmission) (Multitronic).

This tool is indispensable for the quick, easy and professional filling/re-filling of CVTs (continuously variable transmissions). The oil filler adaptor is screwed directly to the 1 litre oil reservoir (VAG G 052 180 A2). The built-in shut-off valve ensures that the accurate quantity of oil is filled in, as well as professional working.

Technical Data:

Hose length:	2m
Gearbox connection thread:	M22x1.5
Dimensions of oil reservoir (a):	36.5mm
Dimensions of oil reservoir (b):	39.5mm



KL-0288-14

Oil Filler Adaptor for VW Haldex Clutches

Suitable for use on VW-Audi Haldex-clutches.

This tool is indispensable for the quick, easy and professional filling/re-filling of Haldex clutches.

The oil filler adaptor is screwed directly to the 1 litre oil reservoir (VAG G 055 175 A2). The built-in shut-off valve ensures that the accurate quantity of oil is filled in, as well as professional working.

Technical Data:

Hose length:	2m
Clutch connection thread:	M10x1
For dimensions of the oil reservoir (a):	34mm
For dimensions of the oil reservoir (a):	37.7mm

KL-0124-43

Oil Pump with 12 Litre Reservoir

Universal field of application.

Ideal for use on the gearboxes found in VW-Audi, Ford, BMW, Honda, Nissan, Toyota, Mercedes, Volvo vehicles.

The oil pump with 12 litre reservoir facilitates the quick and safe filling/topping up of gearbox, differential, engine, power steering etc.

The reservoir can be pressurised quickly and easily with the aid of compressed air. This allows the user to have both hands free to accurately dose the necessary vehicle-specific operating liquid. Alternatively, the filling/topping up can also be carried out by operating the hand pump on the reservoir.

The oil pump with reservoir allows for the quick, easy and professional filling/topping up even in confined space conditions or where access is difficult.

Thanks to the universal and the vehicle-specific adaptors that come with the kit, the oil pump with reservoir is suitable for a wide range of applications.

Accessories:

The **KL-0124-433** reservoir (12l) with lid, which is available separately as an accessory, is designed for the quick and safe filling and storage of different types of oil.

Note: Additional reservoir with lid available as accessory (to be ordered separately).



Technical Data:

Reservoir capacity (with pump):	12 litre
Cracking pressure of the pressure relief valve:	1bar (14psi)
Maximum pressure:	2.5bar (35psi)

Scope of Delivery:

KL-0124-43 Oil Pump with 12 Litre Reservoir

Part No.	Description	Qty
KL-0124-4311	Reservoir (12l) with Pump	1
KL-0124-4332	Lid	1
KL-0124-4312	Hook	1
KL-0124-4313	Filling Hose with Ball Valve	1
KL-0124-432 K	Adaptors in a Storage Case	1

Scope of Delivery:

KL-0124-432 K Adaptor Assortment, in a Storage Case

Part No.	Description	Qty
KL-0124-4358-0	Adaptor for VW Gearbox	1
KL-0124-4358-1	Adaptor for Toyota Gearbox	1
KL-0124-4358-2	Adaptor BMW, Honda, Nissan	1
KL-0124-4358-3	Adapter (short) for VW Gearbox	1
KL-0124-4358-4	Adapter (long), for VW Gearbox	1
KL-0124-4358-5	Adaptor for VW Gearbox (M10x1.0)	1
KL-0124-4358-6	Adapter for VW-Audi DSG Gearbox (M24x1.5)	1
KL-0124-4358-7	Adaptor for Audi CVT Gearbox (M22x1.5)	1
KL-0124-4358-8	Adaptor for Mercedes 722.9 Gearbox (M12x1.5)	1
KL-0124-4358-9	Adaptor for Volvo Gearbox (5/16-24)	1
KL-0124-4390	Plastic Storage Case	1



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KL-0124-433

Reservoir (12 Litre) with Lid

Additional reservoir for KL-0124-43 if different types of oil are to be used.

The **KL-0124-433** reservoir (12 Litre) with lid is designed for the quick and safe filling and storage of different types of oil.

Scope of Delivery:

KL-0124-433 Reservoir (12 Litre) with Lid

Part No.	Description	Qty
KL-0124-4331	Reservoir (12 Litre) with Lid (empty)	1
KL-0124-4332	Lid without connections	1





KL-0288-30

Bit Socket for Oil Drain Plug, VW-Audi

Suitable for use on the VW-Audi 1.2, 1.4, 1.8 and 2.0 TFSi, as well as the 1.6 and 2.0 TDI engines equipped with a plastic oil drain plug (M14x1.5x22mm) with special profile. Engines installed, for example, in Audi A1, A3, A4, A5, Q5 and VW Golf VII etc.

Designed for the professional loosening/tightening of plastic oil drain plugs with special profile as found on oil sumps made of plastic. Necessary, for example, when changing the oil etc.

Technical Data:

Size waf (drive):	10mm
Overall length:	35mm

KL-0231-2

Multi-Spline Socket, XZN, M16

Applicable to Audi A3, A4, A6; VW Fox, Golf (IV), LT.

This special socket features an inner bore and is therefore the ideal tool for oil drain plugs and oil control plugs on gearboxes.



Technical Data:

Drive:	1/2"
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KL-0122-902

Oil Service Tool, Size (waf) 8mm/10mm (square)

Applicable to, e.g. Citroën, Renault, Peugeot etc.

Designed to loosen and tighten the oil drain plug at the engine. Also intended for use on the control plug at the gearbox/differential.



Technical Data:

Length:	220mm
Weight:	350g
Size waf (external square):	8 and 10mm

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KL-4041-3045

Screwdriver Bit Socket, T45

For example, suitable for use on Opel/Vauxhall.

Designed to loosen and tighten the Torx® T45 oil drain plugs.



Technical Data:

Drive:	1/2"
Length:	55mm
Weight:	85g

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

Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-4022-241 Socket Insert Set "Ball Head"

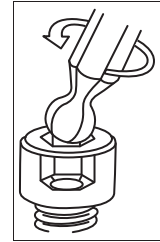
Extra-long design with ball head.
Ideal for loosening and tightening internal hex socket screws that sit very deep or are hard to access e.g. on the oil pan, cylinder head, engine, drive, etc.

Application examples:

- **KL-4022-2405** For oil sump bolts in VW T4 5-cylinder engines.
- **KL-4022-2408** Removal and installation of knock sensor on Audi V6 engines.

Scope of Delivery: KL-4022-241 Socket Insert Set "Ball Head"

Part No.	Description	Qty
KL-4022-2405	Socket Insert, „Ball Head“, Size (waf) 5	1
KL-4022-2406	Socket Insert, „Ball Head“, Size (waf) 6	1
KL-4022-2408	Socket Insert, „Ball Head“, Size (waf) 8	1
KL-4022-2410	Socket Insert, „Ball Head“, Size (waf) 10	1



Technical Data:

Drive:	1/2"
Length:	288mm

KL-0100-6 Extension (Length 600mm)

This tool is essential when performing work at the gearbox, engine and exhaust system.

Technical Data:

Drive:	1/2" to 3/8"
Length:	600mm



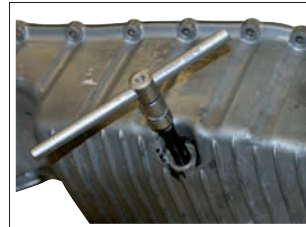
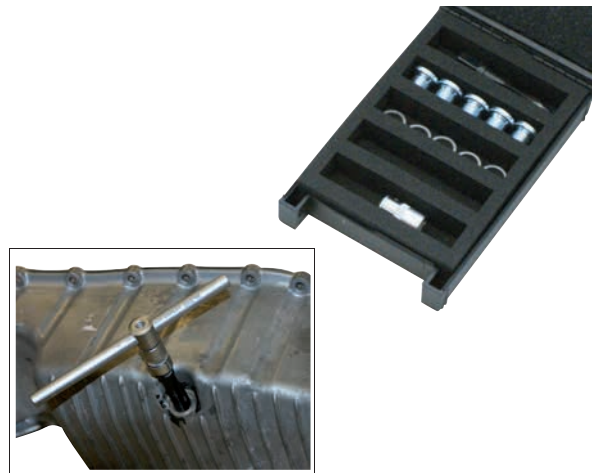
KL-0132-47 K Repair Kit for M12x1.5 Oil Drain Thread

Suitable for use on Alfa Romeo, Fiat and Lancia 1.4 litre Turbo such as Alfa Romeo Mito, Giulietta; Fiat Nuova 500 Abarth, Grande Punto, Nuova Bravo and Lancia Nuova Delta.

This repair kit is designed to repair the M12x1.5 oil drain plug retaining thread at the oil sump. By means of the special tap included in the kit, the old thread is drilled out and a new M14x1.5 sump plug retaining thread is being recut at the same time.

Scope of delivery: KL-0132-47 K Repair Kit for M12x1.5 Oil Drain Thread

Part No.	Description	Qty
KL-0132-4701	Special Tap for M12x1.5 Thread	1
KL-0132-4702	Set of Sump Screw Plugs, M14x1.5 (5-pc.)	1
KL-0132-4703	Set of Aluminium Sealing Rings, Ø 14x18x1.5mm (5-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



6

KL-0132-48 K Repair Kit for M14x1.5 Oil Drain Plug Thread

This repair kit is designed to repair the M14x1.5 oil drain plug retaining thread at the oil sump. By means of the special tap included in the kit, the old thread is drilled out and a new M15x1.5 sump plug retaining thread is being recut at the same time.

Scope of Delivery: KL-0132-48 K Repair Kit for M14x1.5 Oil Drain Plug Thread

Part No.	Description	Qty
KL-0132-481-1	Special Tap for M14x1.5 Thread	1
KL-0132-482	Set of Sump Screw Plugs, M15x1.5 (5-pc.)	1
KL-0132-484	Set of Aluminium Sealing Rings, Ø 15x20x1.3mm (5-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1





KL-0132-49 K Repair Kit for M16x1.5 Oil Drain Thread

This repair kit is designed to repair the M16x1.5 oil drain plug retaining thread at the oil sump. By means of the special tap included in the kit, the old thread is drilled out and a new M17x1.5 sump plug retaining thread is being recut at the same time.

Scope of Delivery:

KL-0132-49 K Repair Kit for M16x1.5 Oil Drain Thread

Part No.	Description	Qty
KL-0132-4901	Special Tap for M16x1.5 Thread	1
KL-0132-4902	Set of Sump Screw Plugs, M17x1.5 (5-pc.)	1
KL-0132-4903	Set of Sealing Rings (5-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



KL-0132-590 KA Thread Repair Kit

Applicable to glow plug threads M10x1 and M12x1.25 as well as oil sump plug thread M14x1.5 and M16x1.5; also suitable for injector nozzle fixing screw thread M6.

This tool set is indispensable for the quick and easy cleaning or repair of threads on aluminium cylinder heads and aluminium oil sumps.

Field of application: Aluminium Cylinder Head:

Glow plug thread: The dirty thread M10x1 is cleaned and recut by using the thread cleaning tool.

The damaged thread is drilled up by means of the special drill. Then, with the aid of the special tap, a new thread with M12x1 or M14x1.25 is cut to retain the threaded inserts with an internal thread of M10x1 or M12x1.25.

Injector nozzle fixing screw thread: The M6 threaded inserts are screwed into the injector nozzle fixing screw thread that has been drilled up to M8x1 for the repair.

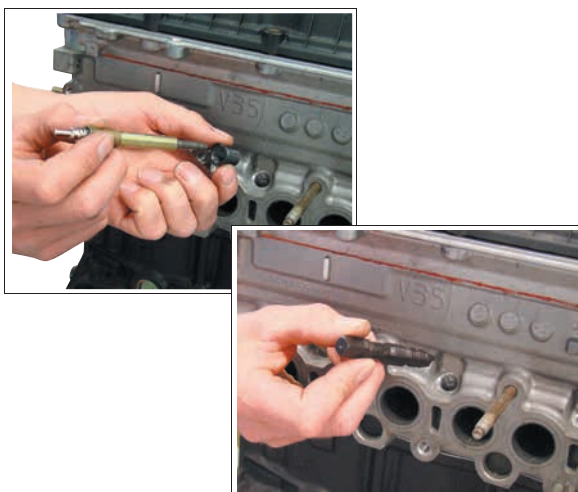
Field of application: Aluminium Oil Sump:

With the aid of the special tap (M14x1.5 or M16x1.5), the old thread is drilled out and a new sump plug retaining thread is being cut at the same time.

Scope of Delivery:

KL-0132-590 KA Thread Repair Kit

Part No.	Description	Qty
KL-0132-583	Set of Threaded Sleeves, M6, 20mm long (10-pc.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" Drive	1
KL-0132-481-1	Special Tap for M14x1.5	1
KL-0132-482	Set of Sump Screw Plugs (5-pc.)	1
KL-0132-484	Set of Aluminium Sealing Rings, Ø 15x20x1.3mm (5-pc.)	1
KL-0132-4901	Special Tap for M16x1.5	1
KL-0132-4902	Set of Sump Screw Plugs, M17x1.5 (5-pc.)	1
KL-0132-4903	Set of Sealing Rings (Aluminium), Ø 24x17.1x1.5mm (5-pc.)	1
KL-0132-501-1	Special Drill for Threaded Inserts, M12x1.25	1
KL-0132-502-1	Special Tap for Threaded Inserts, M12x1.25	1
KL-0132-412	Threaded Inserts, M12x1.25x11 (10 units)	1
KL-0132-511-1	Thread Cleaning Tool, M10x1	1
KL-0132-512 A	Threaded Inserts, M10x1x10 (10 units)	1
KL-0132-513-1	Special Drill for Threaded Inserts, M10x1	1
KL-0132-514-1	Special Tap for Threaded Inserts, M10x1	1
KL-0132-5990	Plastic Storage Cse	1

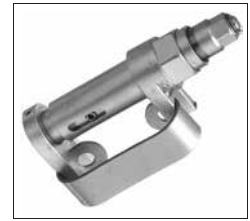


KL-0284-21

Exhaust Spring Clamp Tool (short design), Length 145mm

Intended for use on the exhaust steel clamps of VW Golf, Passat, etc.

For the removal and replacement of steel clamps on the flange on exhaust manifolds, as installed in **VW, Audi, Seat and Škoda** vehicles.



KL-0121-171

Exhaust Manifold Clamp Pliers with Locking Lever

Applications: Citroën, Renault, Peugeot etc.

The **KL-0121-171** pliers enable the easy and trouble-free widening of exhaust manifold clamps, e.g. on the silencer. The built-in locking lever ensures that the widened exhaust manifold clamp is kept open safely.

Technical Data:

Length:	300mm
Weight:	600g



KL-0132-8

Lambda Sensor Socket, 17mm (waf), hexagonal

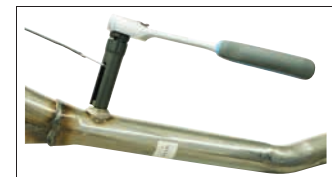
Designed for the removal and installation of Lambda sensors on **Nissan, Renault** and other vehicles.

Technical Data:

Size (waf):	17mm
Drive:	1/2", axial
Length:	100mm
Weight:	260g



1/2"



KL-0132-81

Lambda Sensor Socket, 22mm (waf), hexagonal

Ideal for the Mercedes M111 etc.

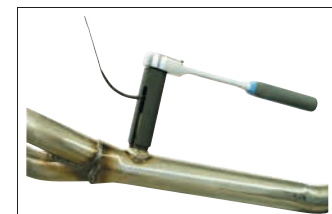
For removing and installing lambda sensors with a deep-seated hexagon.

Technical Data:

Size (waf):	22mm
Drive:	1/2", axial
Length:	110mm
Weight:	300g



1/2"



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet





1/2"



KL-0132-84

Lambda Sensor Socket, 22mm (waf), hexagonal

Applicable to Ford Fiesta VI (models from 07/2008 onwards) 1.25 Zetec S DOHC EFI; 1.4 Zetec DOHC EFI and 1.6 Zetec DOHC EFI engines.

This tool is required for the quick and trouble-free removal and installation of Lambda sensors. Due to its special design, this socket is particularly suitable for Lambda sensors having a very deep-seated hexagon or fitted with a heat shield.

Technical Data:

Size (waf):	22mm
Drive:	1/2"
Length:	110mm

KL-0132-6

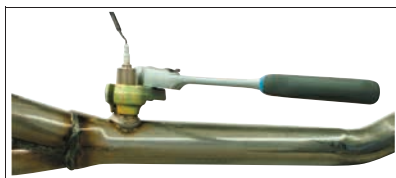
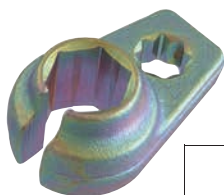
Lambda Sensor Socket, 22mm (waf)

Applications: VW-Audi, BMW, Mercedes, Ford, Opel/Vauxhall, Peugeot, Citroën, Renault, Seat, Škoda, Japanese cars, etc.

Facilitates the removal and installation of hard-to-reach Lambda sensors.

Technical Data:

Size (waf):	22mm
Drive:	1/2", axially displaced
Length:	110mm
Weight:	234g



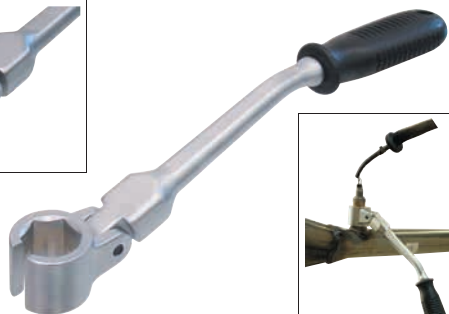
KL-0132-82 A

Lambda Tool Kit, Size (waf) 22mm

This tool is designed for the quick and easy removal and replacement of Lambda sensors that are hard to access, e.g. when the Lambda sensor is located directly in front of the splashboard. The pivot head features a hexagonal socket on one side and a bihexagonal socket on the other side.

Technical Data:

Size (hexagonal / bihexagonal):	22mm waf
Length:	280mm
Weight:	480g



6

KL-0132-12 K

Lambda Sensor Tool Kit

Suitable for Lambda sensor thread M18x1.5.

If damage occurs to the thread of the exhaust manifold while replacing a Lambda sensor, the thread can be recut with the aid of the **KL-0132-120-1** screw tap (for M18x1.5 thread). If this is not possible, the damaged thread can be drilled out using the special screw tap **KL-0132-121-1** and a new thread M20x1.5 can be recut at the same time to retain the **KL-0132-122** threaded inserts with internal thread M18x1.5.

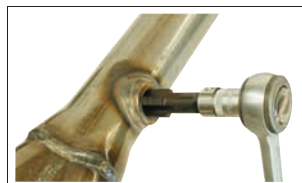
Technical Data:

Lambda-Probe Thread:	M18x1.5
Weight:	498g

Scope of Delivery:

KL-0132-12 Lambda Sensor Tool Kit

Part No.	Description	Qty
KL-0132-120-1	Screw Tap, M18x1.5	1
KL-0132-121-1	Special Screw Tap (for M18x1.5)	1
KL-0132-122	Threaded Inserts M18x1.5 (10 pcs.)	1
KL-0132-123	Square Bit Holder, 10mm (waf), 3/8" drive	1
KL-0132-1290	Plastic Storage Case	1



Accessories (on demand):

1993 U-20 CODE:1436686 - Reversible ratchet



KL-0131-5 Chain Pipe Cutter

Universal.

Allows the professional cutting of exhaust pipes up to a diameter of 85mm at only 90° rotation.

Big cutting wheels with a Ø of 19mm enable trouble-free separation of even corroded exhaust pipes up to a thickness of 3.0mm.

Technical Data:

Weight:	490g
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KL-0131-5001



KL-0131-5001 Spare Chain

KL-0131-51 Chain Pipe Cutter

This tool is used to cut exhaust pipes with a wall thickness of up to 2.5mm and a Ø of 70mm.

Also suitable for stainless steel pipes.

Thanks to the special design of the tool, only a minimum expenditure of force is required throughout the whole cutting operation.

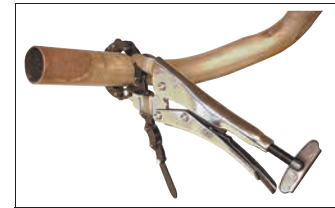
The wing screw allows for the necessary adjustment while cutting.

Technical Data:

Length:	250mm
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Note:

By attaching a second chain, the cutter can be used on pipes with larger diameters.



KL-0131-5101



KL-0131-5101 Spare Chain

Technical Data:

Length:	270mm
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224021 CODE 1600885

Ratchet Pipe Cutter niro

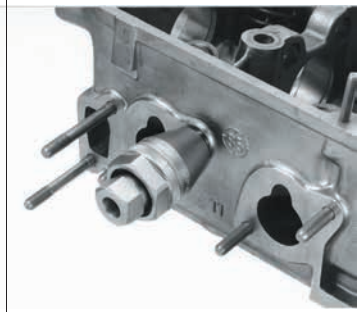
Body in zinc-plated pressure-cast aluminium, for pipes 35-66mm Ø, cutting wheel made from high-alloy stainless steel, especially for cutting stainless steel pipes with high service life. Easy handling via ratchet feed with automatic infeed of the cutting wheel with every rotation, even in confined spaces.

Technical Data:

Length:	275mm
Weight:	580g



224211 Replacement Cutting Wheel



KL-0181-1 Stud Tool, 3/8"

(Universal)

Universal tool, infinitely adjustable.

Designed to screw in and unscrew studs with diameter of 6-12mm.

Advantages:

- Infinitely adjustable.
- Suitable for use in very limited space conditions.
- Also suitable for screws with rusted or stripped threads.
- Also suitable for screws with undersize.

Technical Data:

Drive:	3/8"
Clamping range:	6-12mm
Weight:	450g

KL-0185-5 Drill Guide Kit

(Universal)

This universal adjustable drill guide kit allows broken or sheared studs-especially on cylinder-heads or exhaust manifolds to be quickly and accurately extracted, without the need to remove the cylinder-head. (Male Thread M8 and M10)

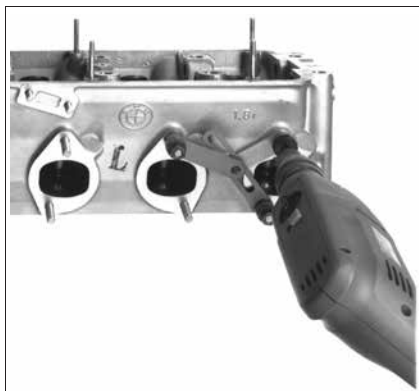
Advantage:

- Time savings of between 2 and 4 hours can be achieved as the cylinder head has not to be removed from the vehicle.

Scope of Delivery:

KL-0185-5 Drilling Guide Set

Part No.	Description	Qty
KL-0185-5001	Drill Guide Jig (complete)	1
KL-0185-5002	Centring Pin (conical)	3
KL-0185-5003	Guide Sleeve, Ø 8mm	3
KL-0185-5004	Guide Sleeve, Ø 10mm	3
KL-0185-1015	Hex Shoulder Nut, M8	2
KL-0185-5005	Hex Shoulder Nut, M10	2
KL-0185-1005/1	Drill Bush, 4.0mm, with Cylindrical Pin	1
KL-0185-1005/2	Drill Bush, 6.5mm, with Cylindrical Pin	1
KL-0185-1005/3	Drill Bush, 8.5mm, with Cylindrical Pin	1
KL-0185-1007/2	Guide Sleeve, M8	1
KL-0185-5007	Guide Sleeve, M10	1
KL-0185-1003/1	Drill Limit Stop, 4.0mm, with Cheese Head Screws	1
KL-0185-1003/2	Drill Limit Stop, 6.5mm, with Cheese Head Screws	1
KL-0185-1003/3	Drill Limit Stop, 8.5mm, with Cheese Head Screws	1
KL-0185-5008	Hexagon Socket Key, 2mm	1
KL-0050-0023	Hexagon Socket Key, 4mm	1
KL-0185-5010	Hexagon Socket Key, 5mm	1
KL-0185-1009	Twist Drill, Ø 4.0mm	1
KL-0185-1010	Twist Drill, Ø 6.5mm	1
KL-0185-1011	Twist Drill, Ø 8.5mm	1
KL-0185-5020 A	Plastic Storage Case	1



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