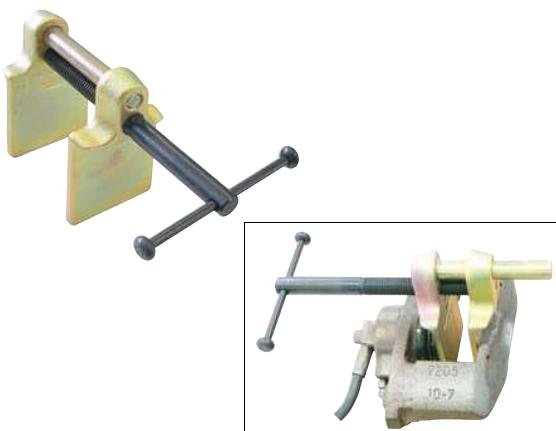


5



KL-0111-1

Caliper Piston Pressing Tool (narrow)**Universally suitable for almost all vehicles .**

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

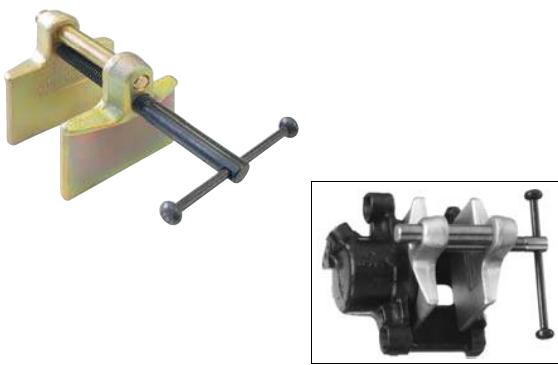
Advantages:

- No jamming of the piston during reset.
- Low expenditure of force needed due to accurate guiding.
- High stability and resistance to wear and tear due to forged plates and hardened guide pins.
- High accuracy ensures easy and long-lasting use.

Technical Data:

Max length of tool	260 mm
Height of tool	125 mm
Usable height of the jaws	75 mm
Width of the jaws	70 mm
Span min.	13 mm
Span max.	70 mm

KL-0111-2

Caliper Piston Pressing Tool (wide)**Universally suitable for almost all vehicles .**

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

Advantages:

- No jamming of the piston during reset.
- Low expenditure of force needed due to accurate guiding.
- High stability and resistance to wear and tear due to forged plates and hardened guide pins.
- High accuracy ensures easy and long-lasting use.

Max length of tool	260 mm
Height of tool	115 mm
Usable height of the jaws	65 mm
Width of the jaws	100 mm
Span min.	13 mm
Span max.	70 mm

KL-0112-21 A

Pressure and Wind-Back Tool with Storage Case and 8 Adaptors**Scope of Delivery:**

KL-0112-21 A Pressure and Wind-Back Tool with Storage Case and 8 Adaptors

Part No.	Description	Qty.
KL-0112-2000	Pressure and wind-back tool	1
KL-0112-0005	Adaptor size2	1
KL-0112-0007	Adaptor size1	1
KL-0112-0006	Adaptor size 6 (12 mm Inbus for VW/Audi)	1
KL-0112-0008	Adaptor size 8 for Citroen XM/BX	1
KL-0112-0009	Adaptor size 9 for Honda / Saab	1
KL-0112-0010	Adaptor size 10 for Renault R21 a. Laguna	1
KL-0112-0013	Adaptor size 13 for Citroen C5	1
KL-0112-0015	Adaptor for Peugeot 207, 307, 308	1
KL-0112-2290	Plastic storage case	1

Suitable for Audi, Citroën, Fiat, Ford, Honda, Mazda, Mitsubishi, Nissan, Opel, Peugeot, Renault, Seat, Subaru, Toyota, VW, etc.

Designed to reset (wind back or push back depending on application) the brake pistons in floating calipers, both equipped with or without mechanical handbrake mechanism. **Can be used on both right-hand thread and left-hand thread .** The piston is wound back via the hexagon on the press piece.

The universal pressure and wind-back tool **KL-0112-21 A** stands out due to the following features. **Spindle with handy toggle and built-in axial ball thrust bearing on the junction for the adaptors.** Enables controlled resetting of the brake piston and guiding of the adaptor via the handy toggle. The ball thrust bearing adaptor junction ensures professional resetting without the risk of damage. The base tool is only intended to position and fix the adaptor during the winding-back process. The resetting takes place via the hexagon on the appropriate adaptor. This prevents damage to the brake piston spindle and prevents the resetting tool from jamming due to various spindle pitches in the tool and in the caliper.

Universally applicable on brake systems that have to be reset mechanically. (A tool for all kinds of brake resetting). Brake piston resetting --- with left-hand thread --- with right-hand thread --- if the piston may not be rotated during the resetting process. The adaptors are specially designed for the relative brake piston (in profile and outer-Ø). This prevents damage to the piston and junk ring while resetting the brake piston. Possibility to continuously complement this tool set by new and specially designed adaptors for the latest vehicles and braking systems. Thus you are always well-equipped for the current and latest vehicles. Small overall height - no intermediate adaptors necessary. All components are available as spare parts.

Vehicle	Part-No.
Alfa Romeo	147 2005 model
	155 1.8 / 2.0 1992- model
	156
	159
	164
Audi	A3
	A3 2008 model
	A4
	A4 2001- model
	A6 (4F)
	A8
	Coupé GT (5E) 1982- model
	Quattro 1980-1987 model
	80 1980-1987 model
	100 1980-1987 model
	90, 20V 1980- model
	200 1980-1987 model
Citroen	C4
	BX
	XM 1889- model
	C5
Fiat	Argenta 2.0 1984- model
	Barchetta 1985- model
	Brava 1995- model
	Bravo
	Coupé 1994- model
	Croma (194)
	Croma 2000, 2,5 TD 1986- model
	Marea 1995 model
	Marea 1997 model
	Scudo (270) 2007- model
	Stilo 1,6 16V
	Ulysse 2002 model
	500 2007- model
	KL-0112-0009
Ford	C Max 10.2003- model
	Focus 1998 model
	Focus Turnier -2004 model
	KL-0112-0007
	KL-0112-0009
	Focus 11.2004- model
	Mondeo 1993- model
	Mondeo II -2000 model
	Mondeo III Tunier 2001 model
	Mondeo IV 05.2007- model
	S-Max 2006- model
Honda	Transit Connect
	KL-0112-0005
Lancia	KL-0112-0010
	Accord 2.0 / 2,0i 1986- model
	Accord 2,0i 1986- model
	Civic 1,6i 2001 model
	Civic (5DR) 2007 model
	CRX, 1,6i-16V 1990- model
	Prelude 16V 1988- model
Jaguar	Beta Monte Carlo 1976- model
	Delta HF Turbo 1986- model
Mazda	Delta 1.6 1992- model
	Dedra 2.0 El tura 1993- model
	Delta 1.9 TD 1995 model
	Kappa 2.0-2.4LS, 2.4TD 1995- m.
	Integrale 1983 model
	Prisma 1600 1983 model
	Thema 1985- model
	All model
	Mazda 3 (BK12) 2003-2008 model
	Premacy

Vehicle	Part-No.
Mini	One
Mitsubishi	Carisma 1997- model
	Lancer 2000 Turbo 1981 model
	Lancer 1983- model
	Lancer 1988- model
	Space Star
Nissan	Starion 2000-2600
	Turbo 1982-1984 model
	Bluebird 16V 1989- model
	Primera P12 2001- model
	Silvia 1985-1988 model
Opel / Vauxhall	Sunny 1.8 GTI 16V 1986- model
	280 ZX 1982-1984 model
	300 ZX Turbo 1984-1989 model
	Astra G 1998- model
	Astra H 2004- model
Peugeot	Meriva
	Signum
	Vectra C 2002- model
	Vectra C (Caravan) 2002- model
	Zafira 1999- model
Renault	Zafira B 2005- model
	205 Turbo 1985- model
	205 1986- model
	205 GTI 1986- model
	207 2003- model
	307 2001- model
	307 CC 2004- model
	307 SW
	308 2003- model
	308 2008- model
	309 GTI 1986- model
Seat	309 1986- model
	405 SRI,GRI,GLI,MI 16V 1987- m.
	407 Kombi
	Clio
	Espace
Škoda	Laguna II
	Master II 1998- model
	Mégane 2003- model
Smart	Scénic I 1999-2003 model
	Trafic II
Toyota	Older vehicles
	Corolla GTI 16V 1985- model
	MR 2
	Yaris 1999- model
	V50
Volvo	KL-0012-0010
	Corrado 1989- model
	Golf II GTI 1983- model
	Golf II GTI 16V 1989- model
	Golf IV
	Golf VI
	Passat
	Scirocco 16V 1984- model
	Scirocco 2008- model
WV	Sharan 1995- model
	T4, T5
	KL-0112-0005

**KL-0112-22 K****Pressure and Wind-Back Tool****Suitable for IVECO Daily I, II and III with Twin Wheel Axle.**

For resetting the brake pistons on rear axle braking systems.

The caliper piston is wound back by turning the hexagon on the press piece.

Note: By complementing the tool with other adaptors of the **KL-0112-.. series**, this pressure/wind-back tool is universally applicable on other vehicles.

Technical Data:

Working travel max.:	65 mm
Weight:	822 g

Scope of Delivery:**KL-0112-22 K Pressure and Wind-Back Tool**

Part No.	Description	Qty.
KL-0112-2000	Pressure and wind-back tool	1
KL-0112-0005	Adaptor size2	1
KL-0112-2201	Support plate	1
KL-0112-2290	Plastic storage case	1

KL-0112-1**Pressure and Wind-Back Tool****Suitable for Audi, Citroën, Fiat, Ford, Honda, Mazda, Mitsubishi, Nissan, Opel, Peugeot, Renault, Seat, Subaru, Toyota, VW, etc.**

Universal pressure-/wind-back tool for resetting (pushing or winding-back dependent on application) brake caliper pistons in floating calipers both with or without integrated handbrake mechanism.

Scope of Delivery:**KL-0112-1000 Pressure/wind-back tool base tool****KL-0112-0005 Adaptor size 2**

Suitable for Audi (A3, A4, A6, A8, V8), Ford (Mondeo II, Focus), Lancia (Delta, Kappa, Ulysse), Mazda (323, 626, 929, Premacy), Mitsubishi (Carisma, Colt, Space Star, Lancer, Galant), Nissan (Bluebird, Sunny), Opel (Bosch Bremssattel, Astra G, Zafira), Peugeot (307 CC, 405), Renault (Master), Rover (825), Seat (Alhambra, Leon, Toledo II), Toyota (Corolla, MR2), VW (Passat, Golf, Sharan, Touran, T4, T5), etc.

KL-0112-0006 Adaptor size 6

Suitable for Alfa Romeo (Alfa 164), Audi (80, 90, 100, 200), etc.

KL-0112-0007 Adaptor size 1

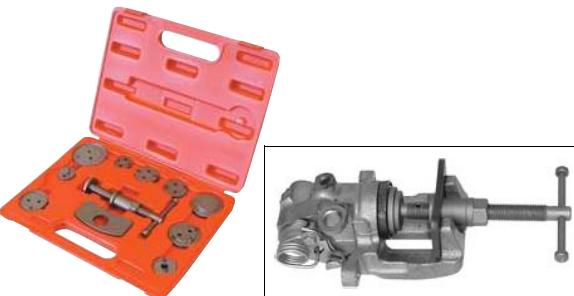
Suitable for Fiat (Barchetta; Marea; Brava; Bravo; Croma; Coupé; Tipo); Lancia (Delta; Prisma; Integrale), Mazda (6), Renault (R5; R11; R19 GTX), Subaru (1600), etc.

KL-0112-0020 Plastic storage case**Note:**

By complementing this tool with additional adaptors of the **KL 0112 .. Series**, this pressure-/wind-back tool is universally suitable for use on other vehicles.

Technical Data:

Working travel max.:	65 mm
Weight:	822 g

KL-0112-3**Pressure and Wind-Back Tool****Suitable for VW-Audi, Ford, Nissan, Subaru, Mazda, Toyota, Mitsubishi, etc.**

Designed to wind-back the piston in floating calipers with integrated handbrake mechanism.

The caliper-piston is wound back by the Spindle and the Toggle.
The tool is delivered in a plastic storage case.

KL-0112-3010**Adaptor Ø7 mm**

The adaptor **KL-0112-3010** is needed to use the different adaptors of the pressure and wind-back tool **KL-0112 -2** in the pressure and wind-back tool **KL-0112-3**.

Special Socket Insert Set Torx®, 1/2"

KL-4041-361K

These special socket inserts in reinforced design are universal in their field of application; required for example for axles and engines repairs.

Scope of Delivery:

KL-4041-361K Special Socket Insert Set Torx®, 1/2"

Part No.	Description	Torx® Size
KL-4041-3630	Socket Insert	T30
KL-4041-3640	Socket Insert	T40
KL-4041-3645	Socket Insert	T45
KL-4041-3650	Socket Insert	T50
KL-4041-3655	Socket Insert	T55
KL-4041-3660	Socket Insert	T60
KL-4041-3670	Socket Insert	T70



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

Socket Insert Torx® T30, 200 mm, 3/8"

KL-4041-2430

Suitable for Smart fortwo (model 2007 onwards) front axle.

This tool is required for the removal and replacement of hub plates on steering knuckles.

Technical Data:

Drive:	3/8"
Size:	Torx T30
Length:	200 mm



Socket Insert (width across flats 8 mm)

KL-0232-90

Suitable for Audi A4 model 2001 onwards.

This tool is necessary for the removal and replacement of caliper pistons on the rear axle.

Technical Data:

Size:	8 mm
Drive:	3/8"
Length:	24 mm



Note:
A professional removal and replacement of the caliper piston on the rear axle or of the lower fastening screw is almost impossible without this very short socket insert KL-0232-90.



5

Socket Insert Size (width across flats)7mm, 100 mm, 1/2"

KL-4021-3107

Suitable for shock absorber piston rods and brake caliper mounting

screws on VW-Audi etc.

Intended for hexagon socket screws.

Technical Data:

Size:	7 mm hex
Drive:	1/2"
Length total:	100 mm
Weight:	100 g



Socket Insert Size (width across flats)7mm, 140 mm, 1/2"

KL-4021-3307

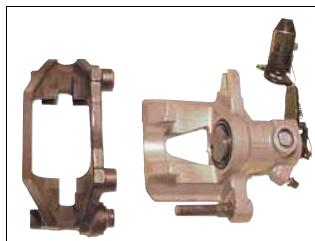
Suitable for shock absorber piston rods and brake caliper mounting
screws on VW-Audi etc.

Intended for hexagon socket screws.

Technical Data:

Size:	7 mm hex
Drive:	1/2"
Length total:	140 mm
Weight:	125 g



**KL-0461-10****Pentagon Socket**

Suitable for the lower brake caliper retaining screw on the Smart and rear brake caliper on Opel/Vauxhall Astra G, Zafira.

Designed to remove and replace the guide pins when these are corroded and the floating caliper is no longer free to self-centre. Also required to remove the caliper piston.

Technical Data:

Size:	14 mm
Drive:	1/2"

KL-1460-1**Pentagon Socket**

Suitable for Citroen, Peugeot and Renault.

Designed to dismount brake calipers .

Technical Data:

Size:	19 mm
Drive:	1/2"

KL-0114-7**Caliper File****5**

Used for cleaning the brake caliper before installing new brake pads. The file is roughly diagonally milled one side with bevelled edges. File blade dimensions: 125 x 13 x 5 mm.

Technical Data:

Length:	220 mm
Weight:	85 g

KL-0114-8**Caliper Brush (Steel)**

For cleaning the caliper before installing the new brake pads.

Technical Data:

Length:	220 mm
Weight:	60 g

KL-0114-81**Brass-Wire Brush (extra narrow)**

For cleaning sensitive control units, contacts, engine and brake parts, etc.

Technical Data:

Length:	220 mm
Width:	11.7 mm
Weight:	60 g

Circlip Pliers angled 90°

KL-0192-7

For brake calipers and transmission, angled 90°.

Technical Data:

Length:	190 mm
Length of Flange:	60 mm

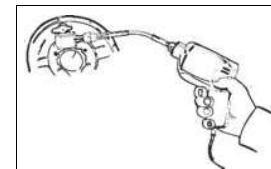


Hone Tool Ø 18-63 (Twin-Arm)

KL-0199-10

Technical Data:

Cylinder-Ø:	18 - 63 mm
Segment Length:	28 mm
Replacement Stones:	2 Stone
Weight:	85 g



Replacement Stones Set (2 Stone) KL-0199-101

Technical Data:

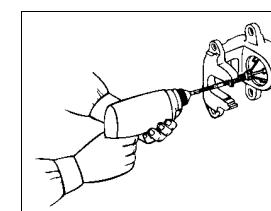
Length:	28 mm
Weight:	28 g

Hone Tool Ø 22-50 (Triple-Arm)

KL-0199-11

Technical Data:

Cylinder-Ø:	20 - 60 mm
Segment Length:	28 mm
Replacement Stones:	3 Stone
Weight:	85 g



5

Replacement Stones Set (3 Stone) KL-0199-111

Technical Data:

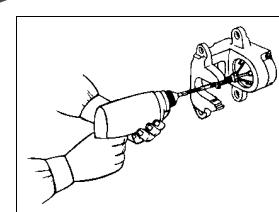
Length:	28 mm
Weight:	28 g

Hone Tool Ø 38-79 (Triple-Arm)

KL-0199-13

Technical Data:

Cylinder-Ø:	38 - 79 mm
Segment Length:	19 mm
Replacement Stones:	3 Stone
Weight:	85 g



Replacement Stones Set (3 Stone) KL-0199-132

Technical Data:

Length:	5 x 19 mm
Weight:	28 g

Replacement Stones Set 4.5 mm x 24 mm (3 Stone) KL-0199-131

Technical Data:

Length:	4,5 x 24 mm
Weight:	28 g

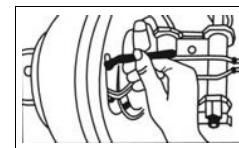
Adjusting Tool

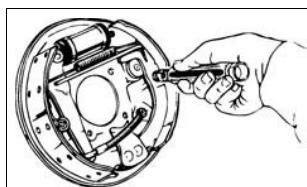
KL-0114-5

Designed to adjust the brake shoes on brake drum systems via an eccentric or an adjusting screw.

Technical Data:

Length:	155 mm
Weight:	50 g

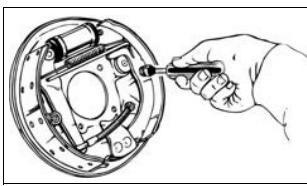


**KL-0114-4****Brake Spring Tool**

This tool is intended for the removal and installation of the brake shoe retaining spring on drum brakes. Allows the user to quickly, professionally and safely remove and install brake spring plates. For brake spring plate-Ø of 16 mm and 20 mm.

Technical Data:

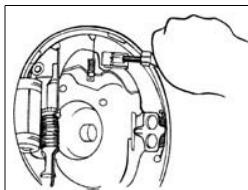
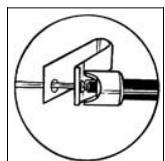
Length:	130 mm
Weight:	90 g

KL-0114-41**Brake Spring Tool**

This tool is intended for the removal and installation of the brake shoe retaining spring on drum brakes. Allows the user to quickly, professionally and safely remove and install brake spring plates for brake spring plate Ø of 13.5 mm - 23 mm.

Technical Data:

Length:	155 mm
Weight:	95 g

KL-0114-42**Brake Spring Tool****5****Suitable for European vehicles with brake-shoe retaining clips.**

To release the retaining clip, insert the tool tips into the groove, and rotate the handle 90° in order to release the clip from the pin.

Technical Data:

Weight:	115 g
---------	-------

KL-0114-43**Brake Spring Pliers****Suitable for Mercedes A-Class (e.g. A140), Citroen, Renault, Peugeot with Lucas drum brake on the rear axle.**

To remove or install the brake shoes, the brake shoe retaining spring must be pre-tensioned with pliers KL-0114-43.

Both versions of the brake shoe retaining spring (see picture) can be tensioned with pliers KL-0114-43.

KL-0314-1**Brake Spring Tool****Suitable for Mercedes etc.**

For the removal and replacement of the handbrake retaining spring. Applicable for conical and cylindrical retaining springs.

Technical Data:

Length:	145 mm
Weight:	110 g

Brake Spring Pliers

KL-0114-2

With flexible off-set jaws.
For riveted and bonded brake linings.

Technical Data:

Length:	317 mm
Weight:	340 g



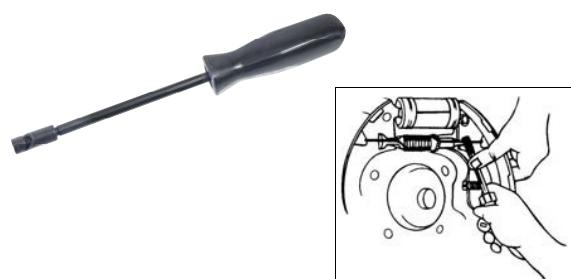
Brake Spring Tool

KL-0114-9

Designed to remove and replace the hold-back spring on drum brakes.
The retaining springs on such drum brakes where the brake pads are not fixed onto the anchor plate. Therefore the retaining spring is inserted into the hook head of the tool and is tightened by turning the handle. The installation happens by pulling the retaining spring with the tool into the correct position.

Technical Data:

Length:	220 mm
Weight:	85 g



Brake Spring Assembly Hook

KL-0114-21

Universal.

Designed to remove and replace the hold-back spring on drum brakes.

Technical Data:

Length:	300 mm
Weight:	100 g



5

Brake Cable Spring Pliers

KL-0114-3

Suitable for VW, Audi, BMW, Citroën, Nissan, Peugeot, Renault, Rover, Seat, etc.

Designed to remove and replace the Hand Brake Cable. The Pliers compress the return springs as far as that the cable may be easily removed and replaced.

Technical Data:

Length:	225 mm
Weight:	175 g



5

Brake Cable Spring Pliers with Locking Lever

KL-0114-31

Suitable for VW, Audi, BMW, Citroën, Nissan, Peugeot, Renault, Rover, Seat, etc.

Designed to remove and replace the Hand Brake Cable. The Pliers compress the return springs as far as that the cable may be easily removed and replaced.

Technical Data:

Length:	265 mm
Weight:	300 g



KL-0114-990
Set of Holders with Abrasive Sleeves


KL-0114-91

KL-0114-92

KL-0114-93

The Holder with the appropriate Abrasive Sleeve is ideal for quick and easy removal of rust and corrosion and dirt from inner bores. eg: bores in floating brake calipers, or mounting bore for ABS Sensors, etc.

Drive can be taken from a hand drill, either directly or with the aid of a flexible shaft.

Scope of Delivery:
KL-0114-990 Set of Holders with Abrasive Sleeves

Part No.	Description	Qty.
KL-0114-91	Holder with 50 Abrasive Sleeves for Ø 16 mm	1
KL-0114-92	Holder with 50 Abrasive Sleeves for Ø 18 mm	1
KL-0114-93	Holder with 50 Abrasive Sleeves for Ø 22 mm	1

Scope of Delivery:
KL-0114-91 Holder with 50 Abrasive Sleeves for Ø 16 mm

Part No.	Description	Qty.
KL-0114-910	Holder for Ø16mm	1
KL-0114-911	Abrasive Sleeve set 80 grit for Ø16 mm (50 pieces)	1

Technical Data:

Shaft Ø:	6 mm
Sleeve length:	25 mm

Scope of Delivery:
KL-0114-92 Holder with 50 Abrasive Sleeves for Ø 18 mm

Part No.	Description	Qty.
KL-0114-920	Holder for Ø18 mm	1
KL-0114-921	Abrasive Sleeve set 80 grit for Ø18 mm (50 pieces)	1

Technical Data:

Shaft Ø:	6 mm
Sleeve length:	30 mm

Scope of Delivery:
KL-0114-93 Holder with 50 Abrasive Sleeves for Ø 22 mm

Part No.	Description	Qty.
KL-0114-930	Holder for Ø22mm	1
KL-0114-931	Abrasive Sleeve set 80 grit for 22 mm (50 pieces)	1

Technical Data:

Shaft Ø:	6 mm
Sleeve length:	25 mm

KL-0114-89 K
Cleaning Tool Set for ABS-Sensor


Universally suitable for ABS sensor mounting bores with hole diameters of 10mm, 14mm, 15mm or 18mm ; for example:

- Bore hole-Ø 10mm: VW Lupo, Passat, T5; Audi A2, A4 2001 onwards
- Bore hole-Ø 14mm: BMW E38; Mercedes S-Class (W202, W210), C-Class (W203), W124, W140;
- Bore hole-Ø 15mm: Mercedes; Ford; Daewoo
- Bore hole-Ø 18mm: Audi A4 until 2001; BMW E36; Mercedes W163; Peugeot Boxer; Renault Clio; VW Golf

The cleaning tool set **KL-0114-89 K** allows the quick, trouble-free and professional cleaning of ABS sensor mounting bores.

The fine toothed reversible ratchet included in the set enables cleaning even in very confined spaces.

Scope of Delivery:
KL-0114-89 K Cleaning Tool Set for ABS-Sensor

Part No.	Description	Quantity
KL-0114-891	Reversible ratchet 1/4"	1
KL-0114-8921	Drill Ø10 mm	1
KL-0114-8931	Reamer Ø10 x 150 mm	1
KL-0114-8941	Reaming head Ø14 x 32 mm	1
KL-0114-8942	Reaming head Ø15 x 23 mm	1
KL-0114-8943	Reaming head Ø18 x 23 mm	1
KL-0114-8944	Reaming head Ø18 x 34 mm	1
KL-0114-8990	Plastic storage case	1

Brake Pipe Beading Tool Set

(Pat. e.g. US-Patented 6,966,210)

KL-0117-2 KA

Suitable for the plastic-coated brake pipes used on VW-Audi, Seat, Skoda with an overall brake pipe diameter of 5.25 mm (including the plastic coating) as well as for brake pipes made from steel, aluminum or copper with a pipe diameter of 4.75 mm.

This tool is specially designed to enable a beaded head to be produced according to DIN Standard F on a brake pipe in the vice. It also enables the section repair of a brake pipe directly on the vehicle (for example after accident damage).

The power train (engine/gearbox) does not need to be removed and installed when this tool set is used.

The interchangeable clamping jaws with a clamping surface of approximately 65 mm ensure the safe clamping of the brake pipe without the risk of damaging it.



Scope of Delivery:

Application:

- Cut off the brake pipe.
- Peel away the plastic coating to a certain length and deburr the brake pipe.
- Press flanging head of pattern F (acc. to DIN standard) against the brake pipe.
- If necessary, bend the brake pipe to the correct configuration.



5

Advantages:

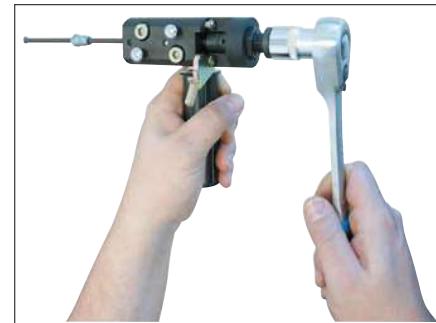
- The brake pipe is securely held in the beading tool without the risk of deforming the pipe, thanks to the interchangeable clamping jaw inserts.
- Beaded heads are produced accurately according to DIN Standard F.
- Ball-bearing press piece.
- Limit stop for accurate length.
- Ergonomic handle for beading directly on the vehicle.
- Built-in holder for clamping into vice.
- Substantial time and cost savings.
- All components are individually available as spare parts.

Application:



Technical Data:

Weight:	3.5 kg
---------	--------



Scope of Delivery:

KL-0117-2 KA Brake Pipe Beading Tool Set

Part No.	Description	Qty.
KL-0117-20 A	Brake pipe beading tool with interchangeable inserts Ø4.75 mm and Ø5.25 mm	1
KL-0117-21	Brake pipe peeling tool	1
KL-0117-22	Gripping pliers with plastic clamping jaws	1
KL-0117-23	Pipe bending tool	1
231000	Pipe cutter 'mini-quick'	1
KL-0117-29	Plastic storage case with insert	1



**KL-0117-2 KB****Brake Pipe Beading Tool Set with interchangeable insert Ø4.75mm**

Suitable for steel, aluminum or copper brake pipes with a pipe-Ø of 4.75 mm.

Scope of Delivery:

KL-0117-2 KB Brake Pipe Beading Tool Set with interchangeable insert Ø4.75mm

Part No.	Description	Qty.
KL-0117-20 B	Brake pipe beading tool with interchangeable insert Ø4.75 mm	1
KL-0117-23	Pipe bending tool	1
231000	Pipe cutter 'mini-quick'	1
KL-0117-29	Plastic storage case with insert	1

Scope of Delivery:**KL-0117-206****Upgrade Kit to pipe- Ø 5.25 mm**

By using the upgrade kit **KL-0117-206**, the brake pipe beading tool **KL-0117-2 KB** also is suitable for the plastic-coated brake pipes used on VW-Audi, Seat, Skoda with an overall brake pipe diameter of 5.25 mm.

Scope of Delivery:

KL-0117-206 Upgrade Kit to pipe- Ø5.25

Part No.	Description	Qty.
KL-0117-2052	Inserts (Pair) Ø5.25 mm, interchangeable	1
KL-0117-21	Brake pipe peeling tool	1
KL-0117-22	Gripping pliers with plastic clamping jaws	1

5**KL-0117-2 KC****Brake Pipe Beading Tool Set with interchangeable insert Ø5.25mm**

(Pat. e.g. US-Patented 6,966,210)



Suitable for the plastic-coated brake pipes of VW-Audi, Seat and Skoda with a pipe-Ø of 5.25 mm.

Scope of Delivery:

KL-0117-2 KC Brake Pipe Beading Tool Set with interchangeable insert Ø5.25mm peeling tool and gripping pliers included

Part No.	Description	Qty.
KL-0117-20 C	Brake pipe beading tool with interchangeable insert Ø5.25 mm	1
KL-0117-21	Brake pipe peeling tool	1
KL-0117-22	Gripping pliers with plastic clamping jaws	1
KL-0117-23	Pipe bending tool	1
231000	Pipe cutter 'mini-quick'	1
KL-0117-29	Plastic storage case with insert	1

Scope of Delivery:

Insert (pair) Ø4.75 mm, interchangeable

KL-0117-2051



Set of Press Pieces for Double Beaded Head DIN Standard E

KL-0117-25

This tool set is designed to enable a beaded head to be produced quickly and accurately according to DIN Standard E. It is used with Brake Pipe Beading Tool Set **KL-0117-20 A**.

Technical Data:

Drive	19 mm
Length	85 mm
Weight	170 g

Scope of Delivery:

KL-0117-25 Set of Press Pieces for Double Beaded Head DIN Standard E

Part No.	Description	Quantity
KL-0117-2501	Pressure screw	1
KL-0117-251	Press piece 1	1
KL-0117-252	Press piece 2	1



Press Piece 1

KL-0117-251

Used for pre-beading in order to produce a beaded head according to DIN Standard E.



5

Technical Data:

Length:	80,5 mm
Weight:	50 g

Press Piece 2

KL-0117-252

Used to finish producing a beaded head according to DIN Standard E.



Technical Data:

Length:	85 mm
Weight:	40 g

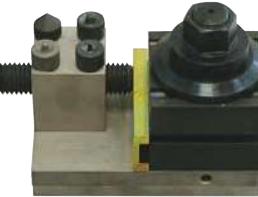
Dual Beading Press

KL-0070

For all brake pipes with a plastic coating of 0.10 mm (olive green colour) overall pipe Ø 4.85 mm and pipes without plastic coating with Ø 4.75 / 5 / 6 and 9 mm. The special profile of the Chuck jaws prevents any damage to the protective plastic coating.

Note:

The **KL-0070** double flanging press is not suitable for plastic-coated brake lines with a max. diameter of 5.25 mm



Technical Data:

Weight:	3.3 kg
---------	--------

Scope of Delivery:

KL-0070 Dual Beading Press

Part No.	Description	Qty.
KL-0070-0009	Press piece 4.75/5 mm	1
KL-0070-0010	Press piece 6 mm	1
KL-0070-0012	Press piece 9 mm	1
KL-0070-0014	Press piece 90 degrees	1

**GEDORE 234001 Dual Beading Tool - CODE 4505530**

For 4.75 - 10 mm diameter metric-size pipes, complete in sheet steel case, for brake lines, refrigerant lines, hydraulic and pneumatic pipes with a wall thickness between 0.7 and 1.0 mm. GTW tempered cast body, stove-enamelled in blue, phosphatised steel jaws.

Also available as a set for metric size pipes and inch size pipes (No. 234 013) or for inch-size pipes only (No. 234 002).

GEDORE 231000 Miniature Pipe Cutter MINI-QUICK - CODE 4504560

With tool body in pressure-cast zinc, stove enamelled blue, cutting wheel in chrome-alloyed stainless steel.

For Ø of 4 - 16 mm O.D. tubing.

Especially suitable for barely-accessible places.

KL-0117-24 Inside Deburrer for Brake Lines**5**

Universally suitable for steel, aluminium and copper brake lines with a pipe -Ø of from 2 to 13 mm.

Designed for the quick and easy inside deburring of pipes.

Technical Data:

Length:	115 mm
Pipeline diameter (inner):	Ø2 to Ø13 mm
Weight:	60 g

KL-0117-51 Pipe Bending Pliers

Suitable for copper pipes DIN-EN 1057, non-ferrous metal pipes as well as thin-walled precision steel pipes and brake lines from 4.75 to 10 mm Ø, (two turnable formers 4.75 – 6.0 and 8.0 – 10.0 mm).

Indispensable for the quick and professional bending of brake pipes.
Bending up to 90° possible.

Technical Data:

Weight	530 g
Length	260 mm
Pipe diameter	4.75 - 10.0 mm

KL-0117-23 Pipe bending tool

Universally suitable for brake pipes made of steel, aluminium or copper with a pipe diameter of from 4.75 mm to 6.0 mm.

The compact and handy shape of the tool enables the easy and trouble-free bending of brake pipes even in very confined spaces.

Technical Data:

Pipe diameter:	Ø 4.75 mm to Ø 6 mm
Radius of bend:	15 mm
Length:	175 mm
Weight:	200 g

Brake Pipe Spanner

KL-0114-6

Universally suitable

Used for loosening and tightening screwed brake pipe connections.
Forged design, angled with hexagon and slot.



Technical Data:

Size (Hex with slot):	10 mm and 11 mm
Length::	175 mm
Weight:	82 g

Open-ended Spanner Socket Set

KL-4076-301

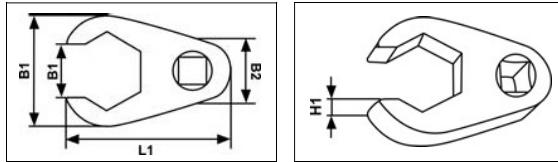
The exceptionally compact and solid shape of the open-ended spanners enables screws and nuts to be loosened and tightened, even if they are very tight-fitting or hard to access; for example on injection lines, hydraulic lines or compressed-air lines.



Scope of Delivery:

KL-4076-301 Open-ended Spanner Socket Set

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

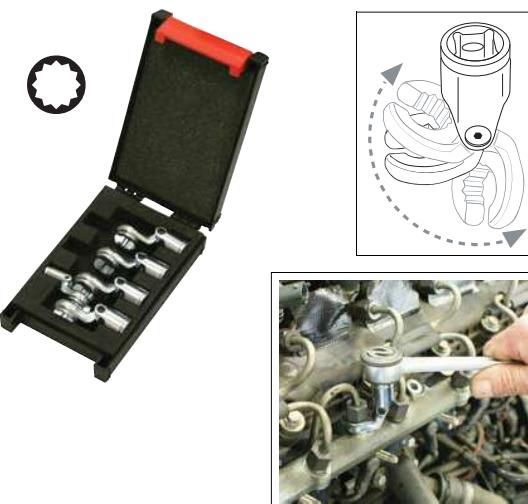


Jointed Ring Spanner Socket Set (open-ended)

KL-4075-321 K

Universally suitable for screwed connections e.g. on brake systems, injection systems etc.

This tool is required for loosening and tightening screwed connections. Thanks to the special design of the ring spanners, even screwed connections that are difficult to access can be reached quickly and without any trouble.



5

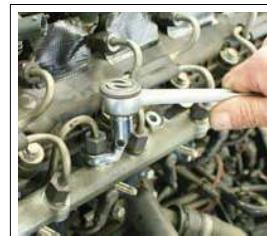
Technical Data:

Profile:	Double Hex
Drive:	3/8"

Scope of Delivery:

KL-4075-321 K Jointed Ring Spanner Socket Set (open-ended)

Part No.	Description	Quantity
KL-4075-3214	Jointed Ring Spanner Socket Size (width across flats) 14 mm, bi-hex, 3/8"	1
KL-4075-3216	Jointed Ring Spanner Socket Size (width across flats) 16 mm bi-hex, 3/8"	1
KL-4075-3217	Jointed Ring Spanner Socket Size (width across flats) 17 mm bi-hex, 3/8"	1
KL-4075-3218	Jointed Ring Spanner Socket Size (width across flats) 18 mm bi-hex, 3/8"	1
KL-4075-3219	Jointed Ring Spanner Socket Size (width across flats) 19 mm bi-hex, 3/8"	1
KL-4074-3190	Plastic storage case	1

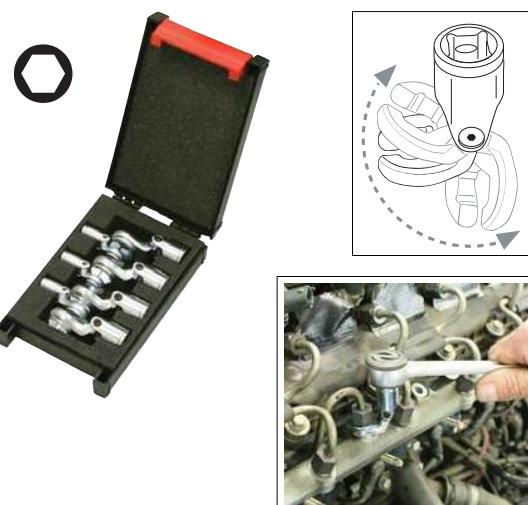


Jointed Ring Spanner Socket Set (open-ended)

KL-4074-311 KA

Universally suitable for screwed connections e.g. on brake systems, injection systems etc.

This tool is required for loosening and tightening screwed connections. Thanks to the special design of the ring spanners, even screwed 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 Jointed Ring Spanner Socket Set (open-ended)

Part No.	Description	Quantity
KL-4074-3111	Jointed Ring Spanner Socket Size (width across flats) 11 mm hex, 3/8"	1
KL-4074-3112	Jointed Ring Spanner Socket Size (width across flats) 12 mm hex, 3/8"	1
KL-4074-3114	Jointed Ring Spanner Socket Size (width across flats) 14 mm hex, 3/8"	1
KL-4074-3116	Jointed Ring Spanner Socket Size (width across flats) 16 mm hex, 3/8"	1
KL-4074-3117	Jointed Ring Spanner Socket Size (width across flats) 17 mm hex, 3/8"	1
KL-4074-3118	Jointed Ring Spanner Socket Size (width across flats) 18 mm hex, 3/8"	1
KL-4074-3119	Jointed Ring Spanner Socket Size (width across flats) 19 mm hex, 3/8"	1
KL-4074-3190	Plastic storage case	1



KL-0128-31

Dial Gauge Stand with Dial Indicator

To measure the wobble of the brake disc and for adjusting the engine and transmission. Strong rods of tool-steel, with fine adjustment for dial-gauge-clamp, prismatic magnetic base.

Scope of Delivery:**KL-0128-31 Dial Gauge Stands with Dial Indicator**

Part No.	Description	Qty.
KL-0128-1	Dial gauge Ø 58 mm	1
KL-0128-3	Support stand without dial gauge	1

KL-0140-40

Frame Micrometer 0-25 mm

Features a ratchet stop and clamping-ring, a concealed, hardened, ground, and adjustable spindle with hand guard insulating pads. Measuring range from 0-25 mm; surfaces chrome-plated.

Technical Data:

Range:	0-25 mm
Pitch:	0.5 mm
Weight:	350 g

5

KL-0140-41

Frame Micrometer 25-50 mm

Features a ratchet stop and clamping-ring, a concealed, hardened, ground, and adjustable spindle with hand guard insulating pads. Measuring range from 25-50 mm; surfaces chrome-plated.

Technical Data:

Range:	25-50 mm
Pitch:	0,5 mm
Weight:	500 g

KL-0140-36

Slide Caliper Digital

Open slide, hardened, with cross-points and depth gauge.
Quality description: stainless steel.

Technical Data:

Range:	155 mm
Jaw length:	40 mm
Vernier:	0.01 mm
Weight:	200 g

KL-0140-32

Slide Caliper for Brake Drums

Measuring-surfaces stainless steel, rule and slide produced of aluminum-profile, open slide, fixing-screw, vernier parallax free reading.

Technical Data:

Range	500 mm
Jaw Length	250 mm
Vernier	1/20 mm + 1/128"
Weight	1200 g

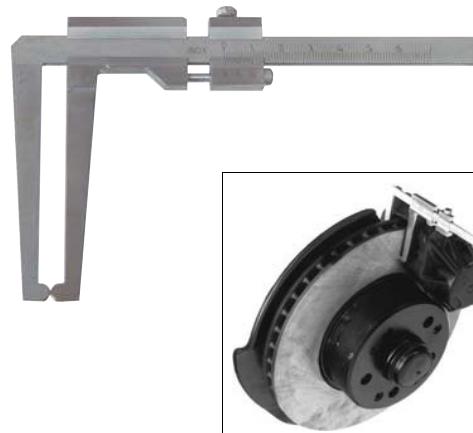
Slide Caliper for Brake Disc

KL-0140-33

Designed to measure the thickness of installed brake-disks. The tool is hardened and features a locking screw.
Quality description: matt chromium-plated stainless-steel

Technical Data:

Range:	50 mm
Jaw length:	75 mm
Vernier:	1/10 mm
Weight:	110 g



Slide Caliper for Brake Discs (Lorry)

KL-0140-38

Designed to measure the thickness of installed brake-discs. The tool is hardened and features a locking screw.
Quality description: matt chromium-plated stainless-steel

Technical Data:

Range:	100 mm
Jaw length:	120 mm
Vernier:	1/10 mm
Weight:	240 g

5



Wheel Bearing Tool Set with Hydraulic Cylinder (28 t)

KL-0040-86

Suitable for Ford Transit 2002 onwards.

To replace the brake disc or wheel bearing, the wheel bearing must be pulled out of the wheel bearing housing together with the hub and the brake disc. With this tool, the wheel bearing can be removed or installed within a few minutes, without removing the suspension strut.



Note:
A hydraulic pump is required to drive the hydraulic cylinder KL-0040-2800.

Scope of Delivery:

KL-0040-86 Wheel Bearing Tool Set with Hydraulic Cylinder (28 t)

Part No.	Description	Qty:
KL-0040-860	Wheel Bearing Tool Set without Hydraulic Cylinder (28 t)	1
KL-0040-2800	Hydraulic Cylinder 28t	1
KL-0040-2812-1	Spindle M24x590	1
KL-0040-2812-2	Clamping nut Ø42, M24	1



Scope of Delivery:

KL-0040-860 Wheel Bearing Tool Set without Hydraulic Cylinder

Part No.	Description	Qty.
KL-0040-8601	Pressure disc Ø77 mm	1
KL-0040-8602	Pressure disc Ø68 mm	1
KL-0040-8501	Pressure Ring	1
KL-0039-1823-4	Screw M10 x 120	5
KL-0040-8503	Drift	5



Mounting the wheel bearing onto the hub.



MOBILE TOOL CABINET WITH CAR TOOL SET

++

**258-PIECE
2005 AUTO**



2005...

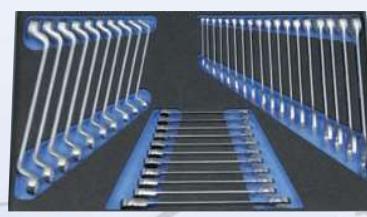
CT-119



CT-2160



CT-8000



CT 2-7



CT-U-20



CHECK-TOOL-SYSTEM

- 2-colour plastic insert provides easy optical check of completeness
- Ideally suited for use in sensitive areas, where it is essential to ensure that no tools are left behind
- Underlay blue, overlay black. A visible blue pocket indicates a missing tool
- Each tool is securely held in its own pocket, prevented from slipping and protected from damage
- Grip recesses facilitate removal of the tools
- Clearly visible tool contours simplify replacement into the correct pocket
- Resistant to oil and grease

Suitable for tool trolley 2005 and workbench 1504 XL