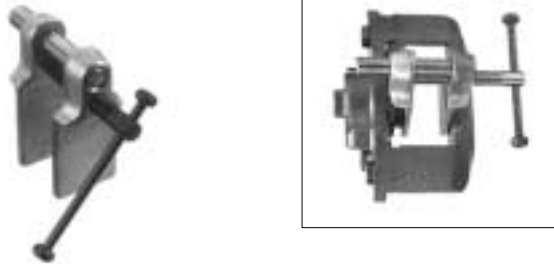
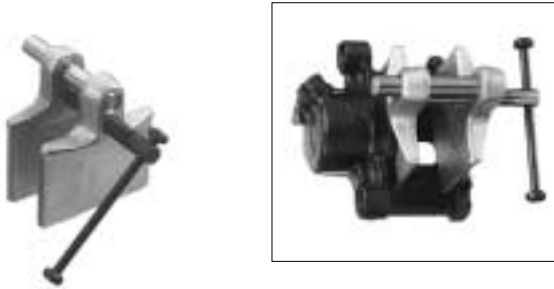


KL-0111-1



KL-0111-2



KL-0113-20 K



Accessories:

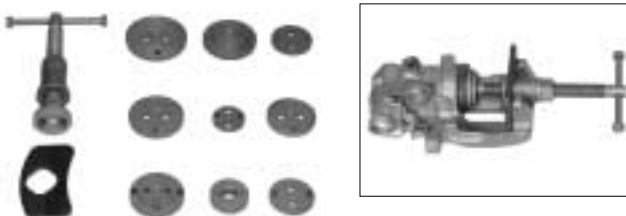
KL-0113-2010

KL-0112-0008

KL-0112-0013



KL-0112-3



Accessories:

KL-0112-3010

KL-0112-0013



### KL-0111-1 Caliper Pressing Tool with narrow jaws

For fully floating caliper with single or double piston or for fixed caliper with two pistons.

This tool allows quick and clean pressing back of caliper pistons into caliper housings without damage to seal or caliper piston.

#### Advantages:

- No sticking of caliper pistons while pressing back.
- Low working force due to precise guide.
- High stability and wear-resistance due to hardened jaws and hardened pilot bolts.
- High precision manufactured tool guarantees easy and durable usage.

Technical Data: See KL-0111-2

### KL-0111-2 Caliper Pressing Tool with wide jaws

As KL-0111-1 but for fully floating caliper with two pistons or for fixed caliper with four pistons.

#### Technical Data:

	KL-0111-1	KL-0111-2
Overall length max.	180 mm	180 mm
Overall height	115 mm	115 mm
Useful height of jaws	65 mm	65 mm
Width of jaws	50 mm	100 mm
Working travel min.	13 mm	13 mm
Working travel max.	70 mm	70 mm
Weight	940 g	1340 g

### KL-0113-20 K Press/Wind-back Tool (5 Adaptors)

Suitable for: **VW-Audi, BMW, Ford, Honda, Jaguar, Mazda, Mitsubishi, Nissan, Peugeot, Rover, Seat, Škoda, Toyota etc.**

To wind-back the piston in floating calipers with integrated Parking Brake adjustment (right-handed rotation).

Before new Brake Pads are fitted it is necessary to wind-back the caliper piston to its „nil/new“ position. The Tool Set consists of Tool Body, 5 Adaptors, Support Plate and Plastic Storage case.

#### Accessories:

##### KL-0113-2010 Adaptor 3/8" to Ø7

Adaptor to allow the use of KL-0112-1/-2 Caliper Piston Adaptors.

##### KL-0112-0008 Adaptor for Citroën XM / BX

To re-position the caliper piston on Citroën XM / BX.

##### KL-0112-0013 Adaptor for Citroën C5

To re-position the caliper piston on Citroën C5.

Note: On the Citroën C5, the left side calipers have a left-handed thread and the calipers on the right have a right-handed thread. The adaptor KL-0113-2010 is required.

### KL-0112-3 Press/Wind-back Tool

To wind-back the piston in floating calipers with integrated Parking Brake adjustment.

Suitable for **VW-Audi, Ford, Nissan, Subaru, Mazda, Toyota, Mitsubishi**, etc.

The caliper-piston is wound back by the Spindle and the Toggle.

The Tool is delivered in a Plastic Storage Case.

#### Accessories:

##### KL-0112-3010 Adaptor Ø7

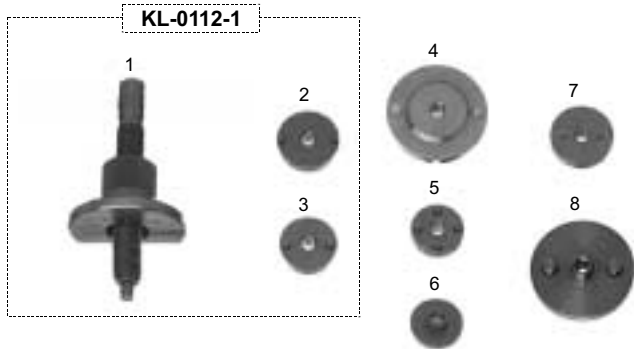
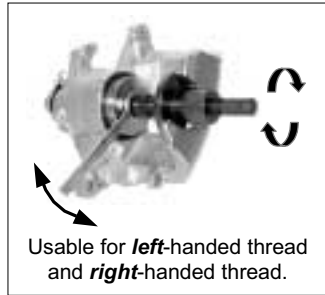
Adaptor to allow the use of KL-0112-1/-2 Caliper Piston Adaptors.

##### KL-0112-0013 Adaptor for Citroën C5

To re-position the caliper piston on Citroën C5.

Note: On the Citroën C5, the left side calipers have a left-handed thread and the calipers on the right have a right-handed thread. The adaptor KL-0112-3010 is required.

### KL-0112-1



### KL-0112-1 Pressure and Wind Back Tool

Universal pressure and wind back tool for pressing back of caliper pistons in floating calipers both equipped with handbrake mechanism or without.

Suitable for **Audi, Citroën, Fiat, Ford, Honda, Mazda, Mitsubishi, Nissan, Opel, Peugeot, Renault, Seat, Subaru, Toyota, VW**, etc.  
The piston is moved back by turning the hexagon on the thrust block.

#### Spare Parts :

Pos.	Part No.	Description
	<b>KL-0112-1</b>	<b>Pressure and Wind Back Tool incl. 2 adaptors</b>
	<i>consists of:</i>	
1	KL-0112-1000	Pressure and Wind Back Tool
2	KL-0112-0005	Adaptor size 2
3	KL-0112-0007	Adaptor size 1
	KL-0112-0020	Storage case empty

#### Accessories:

4	KL-0112-0008	Adaptor Size 8 ⇒ (Usage see KL-0112-2)
5	KL-0112-0009	Adaptor Size 9 ⇒ (Usage see KL-0112-2)
6	KL-0112-0006	Adaptor Size 6 ⇒ (Usage see KL-0112-2)
7	KL-0112-0010	Adaptor Size 10 ⇒ (Usage see KL-0112-2)
8	KL-0112-0013	Adaptor Size 13 ⇒ (Usage see KL-0112-2)

#### Technical Data:

Working Travel max.:..... 65 mm

Weight:..... 822 g

### KL-0112-2 Pressure and Wind Back Tool

Universal pressure and wind back tool for pressing back of caliper pistons in floating calipers both equipped with handbrake mechanism or without.

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

#### Spare Part List for our best-selling Brake Tool:

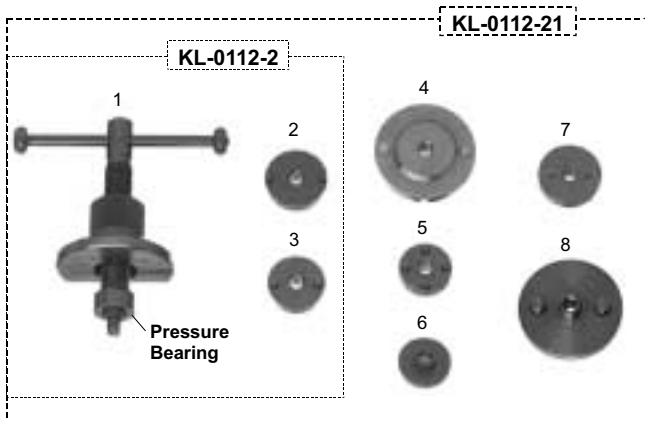
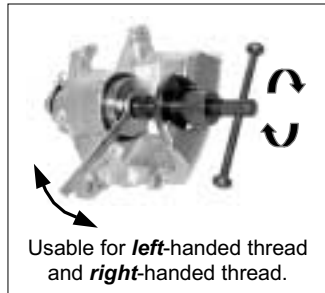
Pos.	Part No.	Description
	<b>KL-0112-2</b>	<b>Pressure and Wind Back Tool incl. case</b>
	<i>consists of:</i>	
1	KL-0112-2000	Pressure and Wind Back Tool
2	KL-0112-0005	Adaptor size 2 ⇒ e.g. Audi (A3; A4; A6; A8; V8), Ford (Mondeo II ; Focus), Lancia (Delta; Kappa; Ulysse), Mazda (323; 626; 929), Mitsubishi (Carisma; Colt; Space Star; Lancer; Galant), Nissan (Bluebird; Sunny), Opel (Astra; Zafira), Peugeot (405), Renault (Master), Rover (825), Seat (Alhambra; Leon; Toledo II), Toyota (Corolla; MR2), VW (Passat; Golf; Sharan; T4), etc.
3	KL-0112-0007	Adaptor size 1 ⇒ e.g. Fiat (Barchetta; Marea; Brava; Bravo; Croma; Coupé; Tipo); Lancia (Delta; Prisma; Integrale), Renault (R5; R11; R19 GTX), Subaru (1600), etc.
	KL-0112-0020	Storage case empty

Pos.	Part No.	Description
	<b>KL-0112-21</b>	<b>Pressure and Wind Back Tool incl. 7 adaptors</b>
	<i>consists of:</i>	
	KL-0112-2	Pressure and Wind Back Tool incl. case
4	KL-0112-0008	Adaptor size 8 ⇒ e.g. Citroën (BX; XM), Peugeot (205; 309), Renault (Alpine; R19), etc.
5	KL-0112-0009	Adaptor size 9 ⇒ e.g. Honda (Accord; CRX; Prelude), etc.
6	KL-0112-0006	Adapter Gr.6 ⇒ z.B. Alfa Romeo (Alfa 164), Audi (80; 90; 100; 200), etc.
7	KL-0112-0010	Adaptor size10 ⇒ e.g. Lancia (Delta 1.9 TD), Mini (Mini One), Nissan (Primera P12), Opel (Astra G; Vectra C; Vectra C Caravan; Signum; Meriva; Zafira), Renault (R21; Laguna; Espace), etc.
8	KL-0112-0013	Adaptor size 13 ⇒ e.g. Citroën (C5), etc.

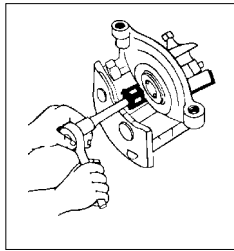
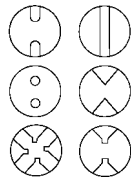
#### Technical Data:

	KL-0112-2	KL-0112-21
Overall length (without Adaptor)	120 mm	120 mm
Max. Working travel	65 mm	65 mm
Weight	0,9 kg	1,1 kg
Case (L×W×H) [mm]	235 × 220 × 76	235 × 220 × 76

### KL-0112-2



KL-0112-40



### KL-0112-40 Reset Tool for Brake Pistons

For turning back brake pistons on brake caliper systems with built-in hand brake system.

This tool is suitable for six different brake piston designs (see illustration). It can be used for many **European, Japanese and American vehicles**.

Drive: .....3/8"

Weight: .....85 g

KL-4041-361K



### KL-4041-361K Torx® Special Socket Set

Strong impact sockets complete with plastic box. Application for repairs on axles and engines.

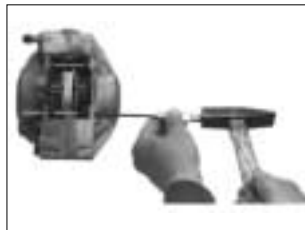
Consists of Torx®: .....T30, T40, T45, T50, T55, T60 und T70.

Drive: ..... 1/2" Y

Weight: .....0,9 kg

Length: .....78 mm

KL-0116-3



### KL-0116-3 Special Drift Sets

For removal of brake pad retaining pins.

The drift **KL-0116-0002** has a pilot centering base specifically for spring-type straight pins on **Opel/Vauxhall** etc.

Part No.
<b>KL-0116 Drift Set</b>
<i>consists of:</i>
KL-0116-0001, Ø 4 mm
KL-0116-0002, Ø 6 mm
Length: ..... 165 mm
Weight: ..... 166 g

Part No.
<b>KL-0116-3 Drift Set</b>
<i>consists of:</i>
KL-0116-0001, Ø 4 mm
KL-0116-0002, Ø 6 mm
KL-0116-0003, Ø 5 mm
Length: ..... 165 mm
Weight: ..... 247 g

KL-0116-2



### KL-0116-2 Slide Hammer

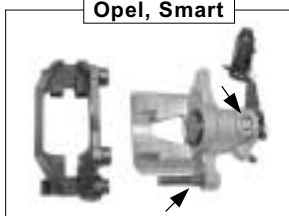
For stubborn brake pads.

**KL-0116-2** consists of slide hammer, jaw **KL-0116-20** with 4,0 mm pins and jaw **KL-0116-21** with 5,9 mm pins.

Length: ..... 250 mm

Weight: ..... 1.6 kg

KL-0461-10



### KL-0461-10 Pentagon Socket

Suitable for: **Rear Brake Caliper on Opel Astra G, Zafira.**

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.

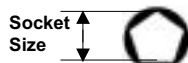
Socket Size: ..... 14 mm

Drive: ..... 1/2" œ

Suitable for the **lower brake caliper retaining screw** on the **Smart**.

For removal and installation of the front-axle brake calipers.

KL-1460-1



Citroën, Peugeot, Renault

### KL-1460-1 Pentagon Socket

To dismantle the brake caliper on **Citroën, Peugeot and Renault**.

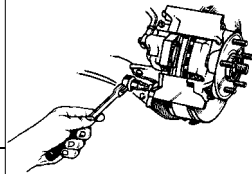
Socket Size: ..... 19 mm

Drive: ..... 1/2" œ

KL-4021-3107



VW-Audi



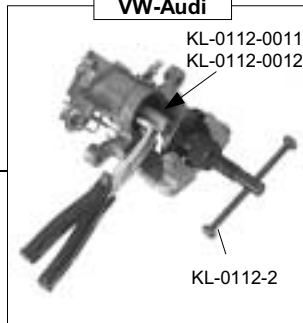
KL-4021-3307



KL-0112-0011



VW-Audi



KL-0112-0012



KL-0192-7



VW-Audi



KL-0049-100



VW-Audi



KL-0049-1005



KL-0049-1006



### KL-4021-3107 Special Socket 7 mm

Special Hex Socket.

Suitable for:

- shock absorber-piston rod VW-Audi, etc.
- brake caliper mounting bolt VW-Audi, etc.

Length total: ..... 100 mm      Weight: ..... 100 g      Drive: ..... ½"ø

### KL-4021-3307 Special Socket 7 mm

Special Hex Socket.

Suitable for:

- shock absorber-piston rod VW-Audi, etc.
- brake caliper mounting bolt VW-Audi, etc.

Length total: ..... 140 mm      Weight: ..... 125 g      Drive: ..... ½"ø

### KL-0112-0011 Adaptor

To press the brake caliper spring (in conjunction with **KL-0112-2**) when repairing the caliper on **VW-Audi** cars from 1987 onwards.

### KL-0112-0012 Adaptor

To press the brake caliper spring (in conjunction with **KL-0112-2**) when repairing the caliper on **VW-Audi** cars up to 1987.

### KL-0192-7 Safety Clip Pliers

For brake calipers and transmission, angled 90°.

Length: .. 190 mm      Length of Flange ..... 60 mm

### KL-0049-100 Slide Hammer Basic Tool

When repairing the brake caliper, stuck spindles can be extracted with the basic slide hammer tool **KL-0049-100** in conjunction with the adaptors **KL-0049-1005** or **KL-0049-1006**.

### KL-0049-1005 Adaptor

For Brake Caliper Spindle.

Application: For Brake Calipers on the rear axle of **VW-Audi** cars up to 1987 in conjunction with Tool **KL-0049-100**.

### KL-0049-1006 Adaptor

For Brake Caliper Spindle.

Application: For Brake Calipers on the rear axle of **VW-Audi** cars from 1987 onwards in conjunction with Tool **KL-0049-100**.



KL-0114-7



### KL-0114-7 Caliper File

For cleaning the caliper before installing the brake pads.

Length:..... 220mm Weight:.....85g

KL-0114-8



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

For cleaning the caliper before installing the brake pads.

Length:..... 22 mm Weight:.....60g

KL-0114-81



### KL-0114-81 Brass-Wire Brush

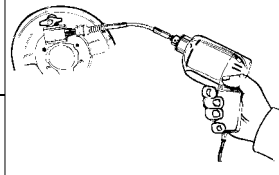
For cleaning sensitive control units, contacts, engine and brake parts, etc.

Width:..... 11,7mm  
Length:..... 220mm Weight:.....60g

KL-0199-10



Brake Cylinder cleaning



### KL-0199-10 Hone Tool Ø 18-63

**Technical Data:**

Cylinder-Ø:..... 18 - 63mm Segment Length: .....28mm  
Hone:..... 2Stone Weight: .....85g

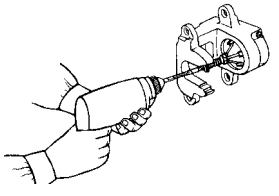
#### KL-0199-101 Replacement Stones Set (2 Stone)

Length:..... 28mm Weight: .....28g

KL-0199-11



Brake Caliper Cylinder cleaning



### KL-0199-11 Hone Tool Ø 22-50

**Technical Data:**

Cylinder-Ø:..... 20 - 60mm Segment Length: .....28mm  
Hone:..... 3Stone Weight: .....85g

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

Length:..... 28mm Weight: .....28g

KL-0199-13



### KL-0199-13 Hone Tool Ø 38-79

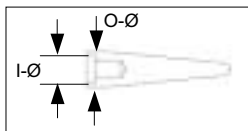
**Technical Data:**

Cylinder-Ø:..... 38 - 79mm Segment Length: .....25mm  
Hone:..... 3Stone Weight: .....85g

#### KL-0199-131 Replacement Stones Set (3 Stone)

Length:..... 25mm Weight: .....28g

KL-0179-62



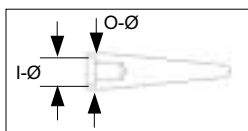
### KL-0179-62 Sealing ring - assembly arbor set Ø14,4 - 30,3 mm

For pulling rings or sleeves on to wheel brake cylinders, piston rods for hydraulic equipment etc., without risk of damage.

Diameter of assembly arbor:

I-Ø14,4mm / O-Ø16,0mm; I-Ø15,9mm / O-Ø17,5mm;  
I-Ø17,5mm / O-Ø19,1mm; I-Ø20,7mm / O-Ø22,4mm;  
I-Ø24,0mm / O-Ø26,0mm; I-Ø25,5mm / O-Ø27,5mm;  
I-Ø30,3mm / O-Ø32,3mm

KL-0179-61



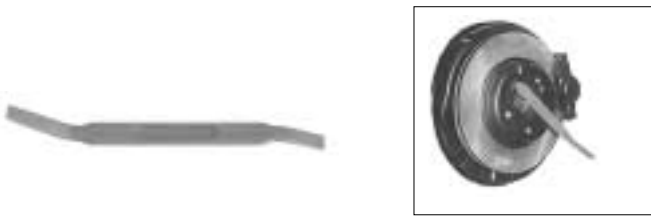
### KL-0179-61 Sealing ring - assembly arbor set Ø14,4 - 20,7 mm

For pulling rings or sleeves on to wheel brake cylinders, piston rods for hydraulic equipment etc., without risk of damage.

Diameter of assembly arbor:

I-Ø14,4mm / O-Ø16,0mm; I-Ø15,9mm / O-Ø17,5mm;  
I-Ø17,5mm / O-Ø19,1mm; I-Ø20,7mm / O-Ø22,4mm

KL-0114-5



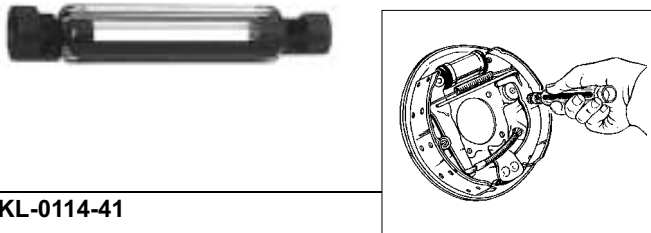
### KL-0114-5 Adjusting Tool

For drum brakes with eccentric adjusters.

Length:.....155 mm

Weight:..... 50 g

KL-0114-4



### KL-0114-4 Brake Spring Tool

For quick, easy and clean removal and installation of the spring plate of the retaining spring of drum brakes.

Length:.....130 mm

Weight:..... 90 g

KL-0114-41



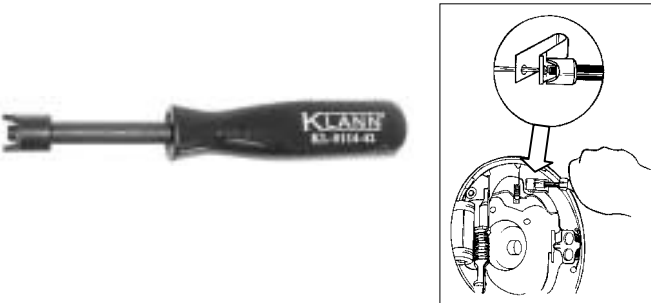
### KL-0114-41 Brake Spring Tool

The tool will remove and replace the anti-squeal spring between the brake-shoe and the back-plate on drum-brakes. The spring is quickly, cleanly and safely removed and replaced.

For springs Ø of 13,5 mm -23 mm.



KL-0114-42



### KL-0114-42 Brake Spring Tool

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.

Length:.....155 mm

Weight:..... 95 g

KL-0114-43



### 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



### KL-0314-1 Brake Spring Tool

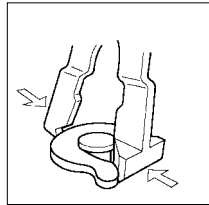
For the removal and replacement of the handbrake retaining spring on **Mercedes**-vehicles.

Applicable for conical and cylindrical retaining springs.

Length:.....145 mm

Weight:..... 110 g

KL-0192-831



### KL-0192-831 Circlip Pliers

**For Emergency Brake Cable Lever Removal.**

This plier makes removal of the "C" clip, found on drum brakes, fast and easy. This allows the emergency brake cable lever to be removed from the brake shoe for replacing. The plier has cushioned handles for comfort.

Length:.....200 mm

Weight:.....510 g

KL-0114-1



### KL-0114-1 Brake Spring Pliers

For removal, replacement and installation of back plate retaining spring.

Length:.....215 mm

Weight:.....240 g

KL-0114-2



### KL-0114-2 Brake Spring Pliers

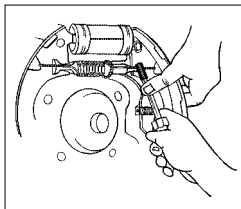
With off-set jaws.

For riveted and bonded brake linings.

Length:.....317 mm

Weight:.....340 g

KL-0114-9



### KL-0114-9 Brake Spring Tool

For removal and installation of retaining springs on such drum brakes where the brake pads are not fixed onto the anchor plate. Therefore the retaining spring will be inserted into the hook head of the tool and will be tightened by winding the handle. The installation happens by pulling the retaining spring with the tool into the correct position.

Length:.....220 mm

Weight: .....85g

KL-0114-21



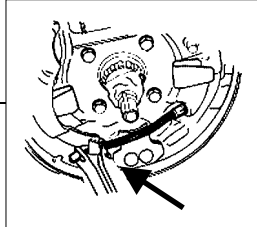
### KL-0114-21 Brake Spring Assembly Hook

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

Length:..... 30 mm

Weight: ..... 100 g

KL-0114-31



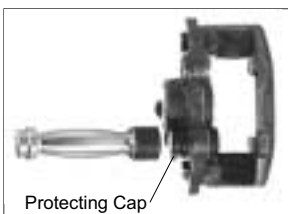
KL-0114-3



KL-0660-10



KL-0460-5



### KL-0114-31 Brake Cable Pliers with locking handles

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

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

Length:.....265 mm

Weight:..... 300 g

### KL-0114-3 Brake Cable Pliers

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

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

Length:.....225 mm

Weight:..... 175 g

### KL-0660-10 Handbrake Spanners - Ford

Application: **Ford** Fiesta, Escort, Orion, Sierra, Granada, Scorpio, Probe, Mondeo, Transit, Galaxy, Maverick.

There is a necessity for all vehicles at frequent intervals to undergo servicing. One operation during servicing, is the inspection and maintenance of the rear braking parts. It is also commonplace, before removing the rear brake drums, to release the tension on the handbrake cable.

The two adjusting tools **KL-0660-1** included in the set are needed for loosening, adjusting and locking.



### KL-0460-5 Brake Repair Tool

For repairs on **Opel/Vauxhall** fitted with DELCO brake calipers.

consists of:

Part No:	Description	Qty
KL-0460-2	Extractor	1
KL-0460-3	Press Tool	1
KL-0460-4	Assembly Drift	1
KL-0460-2004	Press Tool	1

#### KL-0460-2 Extractor Tool

For **Opel/Vauxhall** fitted with DELCO brake calipers.

Stubborn / corroded caliper slides may be quickly and easily removed from the floating caliper housing.

Length:..... 143 mm

Weight:..... 465 g

#### KL-0460-2004 Press Tool

To extract the inner protection-cap on **Opel/Vauxhall** fitted with DELCO BRAKES.

For use in conjunction with **KL-0460-2**.

Length:.....71 mm

Ø: ..... 38 mm

Weight:..... 12 g

#### KL-0460-3 Press Tool

With inter-changeable ends to remove the outer protective cap for the Slide Bore on **Opel/Vauxhall** fitted with brakes from DELCO.

Length:..... 144 mm

Weight:..... 668 g

#### KL-0460-4 Assembly Tool

For replacing the O-Ring onto the Slide without risk of damage, on **Opel/Vauxhall** fitted with brakes from DELCO.

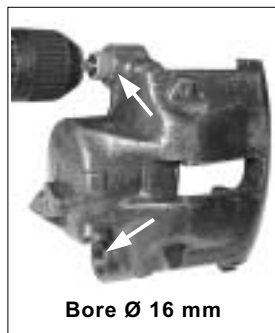
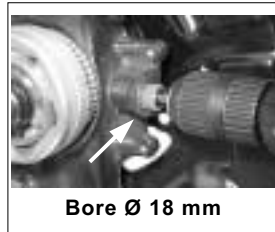
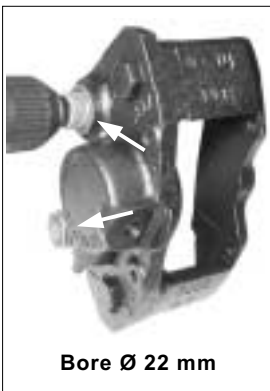
Length:.....40 mm

Weight:..... 107 g

### KL-0114-990



The set includes 50 Abrasive Sleeves of each size.



### KL-0114-6



### KL-0114-13



### KL-0114-990 Set of Holders with Abrasive Sleeves

Consists of: **KL-0114-91, KL-0114-92 and 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.

#### KL-0114-91 Holder with 50 Abrasive Sleeves for Ø 16 mm

Suitable for: Brake Calipers on VW Golf, Passat, Polo, etc. with Ø 16mm bores.

*consists of:*

Part Number:	Description:	Qty
KL-0114-910	Holder depth 25mm; Shaft-Ø6mm; for Bore Ø16mm	1
KL-0114-911	Abrasive Sleeve set 80 grit (50 pieces)	1

#### Technical Data:

Shaft Ø: ..... 6 mm

Holder depth: ..... 25 mm

#### KL-0114-92 Holder with 50 Abrasive Sleeves for Ø 18 mm

Suitable for: ABS Sensor mounting on VW-Audi, BMW, etc. with Ø 18 mm bore

*consists of:*

Part Number:	Description:	Qty
KL-0114-920	Holder depth 30mm; Shaft-Ø6mm; for Bore Ø18mm	1
KL-0114-921	Abrasive Sleeve set 80 grit (50 pieces)	1

#### Technical Data:

Shaft Ø: ..... 6 mm

Holder depth: ..... 30 mm

#### KL-0114-93 Holder with 50 Abrasive Sleeves for Ø 22 mm

To fit floating brake calipers or to de-rust the brake pad contact surface on Opel vehicles. (e.g. Astra G), etc.

with Bore-Ø 22 mm.

*consists of:*

Part Number:	Description:	Qty
KL-0114-930	Holder depth 25mm; Shaft-Ø6mm; for Bore Ø22mm	1
KL-0114-931	Abrasive Sleeve set 80 grit (50 pieces)	1

#### Technical Data:

Shaft Ø: ..... 6 mm

Holder depth: ..... 25 mm

### KL-0114-6 Brake Pipe Spanner

Size 10 x 11 mm with hexagon form and slot in hardened form.

Length: ... 175 mm

Weight: ..... 82 g

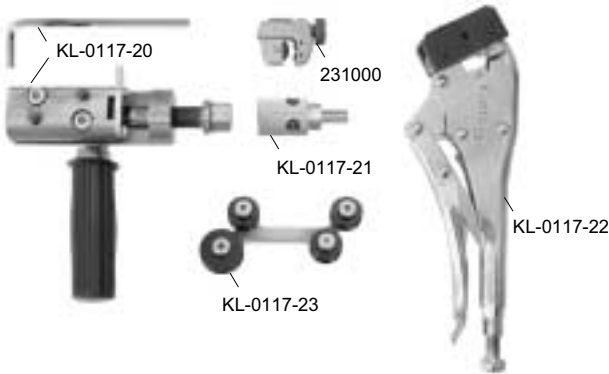
### KL-0114-13 Deep Ring Spanner Set (6-point)

For brake bleeder valve, *consists of:*

Part No.	Wrench Size	Part No.	Wrench Size
KL-0114-131	7 x 7 mm hex	KL-0114-134	10 x 10 mm hex
KL-0114-132	8 x 8 mm hex	KL-0114-135	11 x 11 mm hex
KL-0114-133	9 x 9 mm hex		

### KL-0117-2

VW-Audi,  
Seat, Škoda



Peel plastic coating away from pipe



Shape the flanged end



On completion of flanging



Flanged end acc. to DIN standard



### KL-0117-2 Brake Pipe Beading Tool Set

For beading the ends of the new plastic-coated brake lines used by **VW, Audi, Seat** and **Skoda** with an overall line diameter of 5.25 mm (plastic coating max. 0.5 mm thick).

This tool is specially designed to permit the plastic-coated brake line to be worked on in the vice, or when repairing a section of brake line on the vehicle (e.g. following damage in a rear-end collision).

The power train (engine/gearbox) no longer has to be removed if this tool set is used.

#### Work stages:

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

#### Advantages:

- ♥ This tool set ensures clean removal of the plastic coating and deburring of the pipe
- ♥ The brake pipe is held securely in the flanging tool without damaging the plastic coating or distorting the pipe
- ♥ Flanged ends are produced accurately according to German Industrial Standard DIN pattern F
- ♥ Up to 7 hours of work time can be saved.

#### Contents:

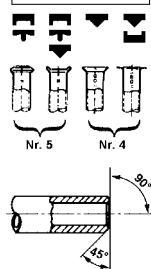
- KL-0117-20 Brake Pipe Beading Tool**  
(incl. 6 mm angled screwdriver)
- KL-0117-21 Brake Pipe- peeling tool**
- KL-0117-22 Grippers with plastic jaws**
- KL-0117-23 Pipe bending tool**
- 231000 'mini-quick' pipe cutter**



### KL-0070



universal



### KL-0070 Dual Beading Press

For all brake pipes with Plastic Sheathing 0,10 mm (olive-green colour) overall Ø 4,85 mm and pipes without plastic sheathing 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 (see KL-0117-2 above).

Weight: .....3,3 kg

### 234013



### 234013 Dual Beading Tool CODE 4662980

For 4.75 - 10 mm diameter metric-size pipes and 3/16" - 3/8" inch-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 sizes only (No. 234 001) or for inch-size pipes only (No. 234 002).

231000



### 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.

241500



### 241500 Universal pipe bending pliers CODE 1442007

Bends up to 90°, for copper pipes DIN EN 1057 and all 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), bright nickel-plated, handles PVC coated.

KL-0140-33



### KL-0140-33 Slide Caliper for Brake Disc

To measure the thickness of installed brake-disks. The tool is hardened and contains a locking screw.

Description: stainless-steel

Range: ..... 50 mm

Jaw length: ..... 75 mm

Vernier ..... 1/10 mm

Weight: ..... 110 g

### KL-0128-31 Dial Gauge Stands with Dial Indicator

Consists of **KL-0128-1** and **KL-0128-3**.

- To measure the wobble of the brake disc.
- For adjusting the engine and transmission

Strong rods of tool-steel, with fine adjustment for dial-gauge-clamp, prismatic magnetic base.

#### KL-0128-1 - Dial Indicator Ø 58 mm

Description: Stem and spindle stainless steel, accuracy to DIN 878-A.

Reading: ..... 0,01 mm

Measuring Range: ..... 10 mm

Housing -Ø: ..... 58 mm

Set nut revolution by 360°: 1 mm

Stem -Ø: ..... 8 mm

#### KL-0128-3 Dial Gauge Stand without Dial Indicator

For further Information, and Accessories see Chapter 10.

KL-0128-31



KL-0140-41

KL-0140-40



**Note:** The Frame Micrometers KL-0140-40 and KL-0140-41 are delivered in storage boxes.

### Frame Micrometers

With ratchet and clamping-ring, enclosed thread, spindle hardened and adjustable, with hand guard insulating pads, reading parts chrome plated, with check-gauge. Description: Chrome-plated.

#### KL-0140-40 Frame Micrometer

Range: ..... 0-25 mm

Pitch: ..... 1/2 mm

Weight: ..... 350 g

#### KL-0140-41 Frame Micrometer

Range: ..... 25-50 mm

Pitch: ..... 1/2 mm

Weight: ..... 500 g

KL-0140-30



KL-0140-31



KL-0140-34



**Note:** The Slide Calipers KL-0140-31 and KL-0140-34 are delivered in storage boxes.

KL-0140-32



KL-0140-38



KL-0114-22



HGV

### KL-0140-30 Slide Caliper

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

Range:..... 100 mm                      Jaw length: ..... 25 mm  
Vernier:..... 1/20 mm                      Weight: ..... 80 g

### KL-0140-31 Slide Caliper

Open slide, hardened, with locking screw and adjustable dial-face. Description: stainless steel.

Range:..... 150 mm                      Jaw length: ..... 40 mm  
Reading:..... 0,01 mm                      Weight: ..... 220 g

### KL-0140-34 Slide Caliper digital

Supplied with the proved, capacitive sensor-technic, with digital-LCD-display. Mechanical parts produced of stainless, hardened steel, in best precision.

Range:..... 150 mm                      Jaw length: ..... 40 mm  
Reading:..... 0,01 mm                      Weight: ..... 350 g



### KL-0140-32 Slide Caliper for Brake Drum

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

Range:..... 500 mm                      Jaw length: ..... 250 mm  
Vernier: . 1/20 mm + 1/128"                      Weight: ..... 1200 g

#### Accessory:

KL-0140-3201 Wooden Case for Slide Caliper

### KL-0140-38 Slide Caliper for Brake Plates

To measure the thickness of installed brake-disks. The tool is hardened and contains a locking screw.

Description: stainless steel.

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

### KL-0114-22 HGV Brake Spring Pliers

Extra strong version. Suitable for HGV Air or Hydraulic drum brakes.

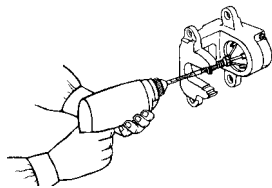
For removal and replacement of brake-shoe springs.

Length: ..... 535 mm                      Weight: ..... 1150 g

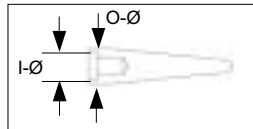
KL-0199-13



Brake Caliper Cylinder cleaning



KL-0179-62



### KL-0199-13 Hone Tool Ø 38-79

**Technical Data:**

Cylinder-Ø:..... 38 - 79 mm      Segment Length: ..... 25 mm  
 Hone:..... 3 pieces      Weight: ..... 85 g

### KL-0199-131 Replacement Stones Set (3 Stone)

Length:..... 25 mm      Weight: ..... 28 g

### KL-0179-62 Sealing ring - assembly arbor set Ø14,4 - 30,3 mm

For pulling rings or sleeves on to wheel brake cylinders, piston rods for hydraulic equipment etc., without risk of damage.

Diameter of assembly arbor:

I-Ø14,4mm/O-Ø16,0mm; I-Ø15,9mm/O-Ø17,5mm;  
 I-Ø17,5mm/O-Ø19,1mm; I-Ø20,7mm/O-Ø22,4mm;  
 I-Ø24,0mm/O-Ø26,0mm; I-Ø25,5mm/O-Ø27,5mm;  
 I-Ø30,3mm/O-Ø32,3mm

### KL-0040-85 Wheel Bearing Tool Set with Hydraulic Cylinder

Suitable for Ford Transit 2002-onwards.

To renew the brake disc or wheel bearing, the wheel hub must be pulled out of the wheel bearing housing together with the hub and the brake disc.

The wheel bearing can be removed or installed within a few minutes, without removing the suspension strut.

### KL-0040-850 Wheel Bearing Tool Set (without Hydr. Drive)

As KL-0040-85

if Hydraulic Cylinder KL-0040-2500, Spindle KL-0040-2512 and Nut KL-0040-3009 are already available.

**Contents:**

Part No.	Description	Qty.
<b>KL-0040-850</b>	<b>Wheel Bearing Set (without Hydr. Drive)</b>	<b>1</b>
<i>consists of:</i>		
KL-0040-8501	Press Ring	1
KL-0040-8502	Cylinder Bolt M10 x 140	5
KL-0040-8503	Drift	5
KL-0040-8504	Press Plate	1
KL-0040-8505	Press Plate	1

KL-0040-85

KL-0040-2500

Ford Transit

KL-0040-3009

KL-0040-2512

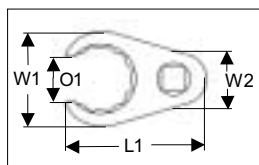
KL-0040-850



Wheel Bearing Extraction



KL-4072-301



**Note:**

Further Spanners see Chapter 10.



### KL-4072-301 Open Ring Spanner Socket Set

Open 12-sided spanners are exceptionally compact and strong, so that even screws and nuts that are difficult to reach or turn can be loosened and tightened.

Drive: ..... 1/2" ÿ

Part-No.	Hex (mm)	Length [L1]	Height [H1]	Width 1 [W1]	Width 2 [W2]	Opening [O1]	Weight [g]
KL-4072-3017	17	60 mm	20 mm	31 mm	31 mm	12 mm	150
KL-4072-3018	18	63 mm	20 mm	34 mm	31 mm	14 mm	150
KL-4072-3019	19	63 mm	20 mm	34 mm	31 mm	14 mm	150
KL-4072-3022	22	65 mm	25 mm	39 mm	31 mm	15,5 mm	325
KL-4072-3024	24	70 mm	25 mm	44 mm	31 mm	18 mm	350