Changing Springs and Shock Absorbers
The newly-developed Coil Spring Pre-Compressor KL-0029-10 from KLANN allows the removal and installation of the specified struts after repairs without the need for any wheel alignment specified by the manufacturer.

A special feature of the spring pre-compressor is that pre-tensioning the spring in-situ on the vehicle enables the strut to be removed without the need for releasing the control arm / drive shaft, suspension ball joint or track rod joint. Due to the unique design of the tool, the shape of the spring is not an issue.

The spring pre-compressor is suitable for a wide range of applications, thanks to its compact design comfortably fitting the strut mount area and the interchangeable support plates. Its innovative concept saving job time of up to 25% and eliminating the need for axle work and wheel alignment makes this spring pre-compressor a rewarding investment both for now and the future.

Technical Data:
- Max. load capacity: 17 500 N
- Max. opening distance*: 335 mm
- Compression travel*: 110 mm
- Clamping nut drive: 27 mm
* = without support plate

Preparing the Vehicle:

Lift vehicle. Secure control arm by means of the KL-0145-120 supporting device (accessory) and a transmission jack.

Loosen and/or remove all necessary components. Slightly lower suspension strut. Open out clamping bore for strut using spreader tool KL 0104-21-1 A (accessory).
Changing Springs and Shock Absorbers

**Coil Spring Pre-Compressor VW-Audi**  (Patented)  KL-0029-10

Positioning the coil spring pre-compressor:

- **PQ35**
- **MQB**
- **PQ25, New Small Family**

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

Position coil spring pre-compressor on strut as shown.

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

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

Remove coil spring pre-compressor from strut.

**DO NOT open the piston rod nut!**

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

Remove strut from strut clamping bore.

Clamp strut in the KL-0055-60 holding fixture (accessory).
KL-0029-10 Coi l Spring Pre-Compressor, VW-Audi

Designed for the latest VW-Audi, Seat, Skoda vehicle models based on the Modular Transverse Matrix (MQB) platform, such as VW Golf VII, A3 (8V), as well as Audi A1, A3 (8P), TT (8J), Q3 and VW Golf V, Golf VI, Passat (3C, 363, 365), Tiguan, up! etc.

The newly-developed Coi l Spring Pre-Compressor KL-0029-10 from KLANN allows the removal and installation of the specified struts after repairs without the need for any wheel alignment specified by the manufacturer.

Advantages:
- Substantial time and cost savings.
- Eliminates the need for releasing the control arm.
- Eliminates the need for releasing the drive shaft.
- Eliminates the need for releasing the track rod end or ball joint.
- Eliminates the need for wheel alignment.
- Designed to be used independent of spring shape and spring pitch.
- All components are available individually as spare parts.

Note / Accessory:
To remove stuck / tight-fitting shock absorber / strut units from the steering knuckle clamping bore, it is essential to open out the clamping bore with the aid of the KL-0104-21-1 A spreader tool.

Technical Data:

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0029-100 Base tool with screws</td>
<td>1</td>
</tr>
<tr>
<td>KL-0029-111 Support Plate, size 1, with bolts</td>
<td>1</td>
</tr>
<tr>
<td>KL-0029-120 Upgrade Kit Size 2</td>
<td>1</td>
</tr>
<tr>
<td>KL-0029-130 Upgrade Kit Size 3</td>
<td>1</td>
</tr>
</tbody>
</table>

Scope of Delivery:

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

* = without support plate
Changing Springs and Shock Absorbers

Spring Compressor (Stationary) KL-5501 (Patented)

Universally suitable for MacPherson- and Semi-Struts e.g. with standard springs, right or left wined springs, excenctrical springs or spring plates, conical springs, springs with a small number of windings, high or varying spring coil angles.

As the spring is compressed with its upper seat against the lower spring seat, the spring shape or the spring coil angles are not an issue. The variably settable spring cup seat, the adjustable support and the retaining jig with single hand operation widen the field of application of the compressor to almost any spring and shock absorber while satisfying the highest security and safety standards.

Advantages:

- **No further accessories needed!**
  Due to the special design of the jaws, the radial arms, and the swivelling bar to which they are mounted, all the above mentioned Struts and Semi-Struts can be compressed without any additional jaws.

- **No damage to the Strut tube!**
  The special strut vise can quickly and easily be adjusted via a knurled nut up to the correct diameter of the strut tube. (the clamping bars should be parallel to each other) Jaws with plastic coating.

- **One-Person Operation!**
  The whole working operation can be carried out by one person only. Strut holding clamp enabling quick and easy clamping as well as one-hand-operation.

- **Mobile due to the workshop trolley (KL-4999-120)**
  The stationary spring compressor features a mounting plate that enables the spring compressor to be fixed to the workshop trolley KL-4999-120 or a workbench. The workshop trolley enables convenient working directly beside the vehicle.

Technical data:

- **Drive:** ................................................................. 24 mm hex
- **Breaking point:** ............................................... 60,000 N
- **Maximum load:** .................................................. 15,000 N
- **Weight:** ............................................................. 46 kg
- **Compressing range:** ............................................. 570 mm
- **Spring plate Ø:** ................................................. (min. / max.) 125 mm / 220 mm
Universally suitable for almost all MacPherson strut/semitrunk designs such as
- Standard springs
- Springs with right or left-hand windings
- Very eccentric springs
- Springs with a small number of windings where the outer winding swings very far.

- No damage to the spring coating due to compression via the spring plate.
- The whole spring compressing process can be performed by one person only
- All components are available as spare parts.
- Variably adjustable spring compressing assembly
- No additional jaws needed
- Easy to use
- Strut tube protected by special plastic clamping jaws on the strut holding clamp and supporting column assembly.
- High-quality product made in Germany
- The use of first-quality materials and the high-precision manufacturing process of the spring compressor ensure that springs can be compressed with a low expenditure of force.
- Safe and accurate working
Changing Springs and Shock Absorbers

Spring Compressor (Stationary) (Patented) KL-5501

KLANN – where customer satisfaction always comes first!

On our website www.klann-online.de we offer a wide range of application videos on selected tools!

The application videos are free for you to download!

Advantages:

- No additional accessories needed!
- No damage to the strut tube!
- One-Person-Operation!
- Mobile thanks to the workshop trolley!
KL-4999-120  Workshop Trolley (without spring compressor)

The sturdy workshop trolley KL-4999-120 can be used in conjunction with the stationary spring compressor KL-5501 and the wheel bearing/silentbloc tools of the KL-0039-Series, thus providing you with a professional and mobile workplace for accurate and quick chassis or axle repairs.

The large and sturdy Multiplex worktop made of solid beech offers the ideal working surface.

The convenient push handle and the robust smooth-running wheels with double brakes allow for easy and smooth mobility of the trolley.

The 4 drawers feature an individual locking mechanism as well as a central lock designed to prevent unintentional opening of the drawers.

Technical Data:

<table>
<thead>
<tr>
<th>Dimensions:</th>
<th>W 1200 x H 900 x D 600 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Worktop:</td>
<td>W 1200 x H 25 x D 600 mm</td>
</tr>
<tr>
<td>Drawer (1x):</td>
<td>W 1000 x H 100 mm</td>
</tr>
<tr>
<td>Drawer (2x):</td>
<td>W 1000 x H 150 mm</td>
</tr>
<tr>
<td>Drawer (4x):</td>
<td>W 1000 x H 200 mm</td>
</tr>
<tr>
<td>Castor with brake (2x):</td>
<td>Ø 125 mm</td>
</tr>
<tr>
<td>Fixed roller (2x):</td>
<td>Ø 125 mm</td>
</tr>
<tr>
<td>Weight:</td>
<td>125 kg</td>
</tr>
</tbody>
</table>

Note:

For additional accessories for this workshop trolley such as the storage system of the KL-0039 Series, please refer to chapter 10 in the KLANN main catalogue.

KL-5501-161  Adaptor for Mercedes M-Class (German Utility Model)

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

The adaptor KL-5501-161 enables rear axles struts to be placed on the lower supporting plate.

Technical Data:

| Weight: | 4.8 kg |

KL-5501-20  Wall Mount Bracket

The wall mount bracket KL-5501-20 enables the installation of the stationary spring compressor KL-5501 on a vertical wall.

Technical Data:

| Weight: | 4.8 kg |
Changing Springs and Shock Absorbers

**Telescopic Spring Compressor** (Patented) KL-9002

- **Patented**
- **Maximum load 27 500 N**
- **Automatic freewheel of the spindle**
- **All components are available as spare parts**
- **Universally suitable, for example, for MacPherson strut/semi-strut designs**
- **No key bed in the piston**
  - High Load Capacity
- **High-quality product made in Germany**
- **Cylinder and piston nitrided (68 Rockwell) ensuring high wear resistance**

- **Latching System for adjusting the jaw opening width.**
- **Interchangeable plastic protective inserts to prevent from failure of the spring caused by notches and corrosion.**
- **Approved for use with a 1/2" impact wrench drive**

Compressing and decompressing a conical spring
- Compressing the spring on the vehicle and removing it
- Compressing the spring together with the upper spring plate
- Compressing the spring together with the upper spring plate
Universally suitable for vehicles equipped with MacPherson Suspension and Damper Struts. Ideal for All-Wheel-Drive vehicles, Transporters and Vans such as Citroën Jumper; Fiat Ducato; Mercedes Vito, V-Class, M-Class, W210 4Matic; Peugeot Boxer, Break; Renault Master etc.

(If required, additional jaws can be used!)

Special jaws will also allow coil springs mounted to wishbone suspensions to be removed and installed, provided that available space enables access.

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

Additional jaws for spring-Ø of from 70-210 mm are available upon request.

Max. Load 27 500 N *

*at the specified 4-times Safety-Factor, the maximum safe load of the KL-9002 is 27,500 N!

THE universal telescopic spring compressor

- which, due to a latching system, offers a wide range of jaw openings (distance between jaws), adjustable from a minimum of 40 mm to a maximum of 361 mm.

This is an important feature when it comes to compressing very short springs (2-3 coils) and also very long springs so as to allow these to be fully decompressed and/or replaced. (e.g. Audi, BMW, Fiat, Ford, Lancia, Mazda, Mercedes, Renault etc.)

- which offers a patented Bayonet Interlock System with an automatic self-locking mechanism designed to fasten the forged jaws (no tools, bolts or locking rings required).

- whose spindle drive remains closed in case the slotted spring pin breaks. Thanks to the auxiliary drive, the compressed spring can then be decompressed to enable a new spring pin to be installed.

- which features an automatic free-wheel preventing the spindle from overload during the de-compression process when the maximum end of travel has been reached - thus eliminating the risk of damage to the spring-compressor.

- whose plastic protective inserts can be screw-connected to the jaws for the protection of the spring coating. Important to prevent spring failure/breakage caused by notches and corrosion.

- which is suitable for almost any MacPherson suspension and damper strut systems, as well as for many wishbone suspensions thanks to a wide range of jaws available.

The combination of special high-precision components and wear-resistant nitrided steel creates a cylinder that not only is smooth-running but also highly resistant to wear and tear.

To compress a spring which is coil bound at approx. 18,000 N (for example of a Mercedes M-Class) a torque of only 35 Nm is required!

Examples of maximum coil-bound forces:

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

Advantages:

- Jaw-mounting device with automatic self-locking mechanism.
- Adjustable jaw-opening device.
- Drive features an additional auxiliary drive.
- Automatic freewheel of the spindle.
- Also applicable to conical springs.
- Plastic protective inserts (optionally available)
Changing Springs and Shock Absorbers

Technical Data

<table>
<thead>
<tr>
<th>Cylinder</th>
<th>KL-9002-100</th>
</tr>
</thead>
<tbody>
<tr>
<td>L min.</td>
<td>Overall length min.</td>
</tr>
<tr>
<td>L max.</td>
<td>Overall length max.</td>
</tr>
<tr>
<td>A</td>
<td>Working Travel (piston stroke)</td>
</tr>
<tr>
<td>SPF</td>
<td>Spindle freewheel at</td>
</tr>
<tr>
<td>Smin.I</td>
<td>Jaw opening min. (I) (distance between jaws)</td>
</tr>
<tr>
<td>Smin.II</td>
<td>Jaw opening min. (II) (distance between jaws)</td>
</tr>
<tr>
<td>Smax.I</td>
<td>Jaw opening max. (I) (distance between jaws)</td>
</tr>
<tr>
<td>Smax.II</td>
<td>Jaw opening max. (II) (distance between jaws)</td>
</tr>
<tr>
<td>SPF</td>
<td>Load capacity max. (at 4-times safety factor)</td>
</tr>
<tr>
<td></td>
<td>Breaking point</td>
</tr>
<tr>
<td></td>
<td>Spindle drive</td>
</tr>
<tr>
<td></td>
<td>Weight of Cylinder</td>
</tr>
<tr>
<td></td>
<td>Weight of Cylinder with Jaws size 1 and 2</td>
</tr>
</tbody>
</table>

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

Scope of Delivery:
KL-9002 Telescopic Safety Spring Compressor

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-9002-100</td>
<td>Cylinder</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-11</td>
<td>Pair of jaws in size 1</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-12</td>
<td>Pair of jaws in size 2</td>
<td>1</td>
</tr>
</tbody>
</table>

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

As KL-9002, but comes with jaws with protective inserts.
KL-9001-10
Pair of Jaws, Size 0
Universally suitable.
Pair of special jaws with closed attachment ring.

Technical Data:

<table>
<thead>
<tr>
<th>Spring Ø</th>
<th>Weight (Pair)</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 - 125 mm</td>
<td>2.5 kg</td>
</tr>
</tbody>
</table>

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

KL-9001-11
Pair of Jaws, Size 1
Universally suitable.
Pair of standard jaws with closed attachment ring.

Technical Data:

<table>
<thead>
<tr>
<th>Spring Ø</th>
<th>Weight (Pair)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 - 163 mm</td>
<td>3.1 kg</td>
</tr>
</tbody>
</table>

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

KL-9001-12
Pair of Jaws, Size 2
Universally suitable.
Pair of standard jaws with closed attachment ring.

Technical Data:

<table>
<thead>
<tr>
<th>Spring Ø</th>
<th>Weight (Pair)</th>
</tr>
</thead>
<tbody>
<tr>
<td>135 - 175 mm</td>
<td>3.3 kg</td>
</tr>
</tbody>
</table>

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

KL-9001-13
Pair of Jaws, Size 3
Universally suitable.
Pair of special jaws with closed attachment ring.

Technical Data:

<table>
<thead>
<tr>
<th>Spring Ø</th>
<th>Weight (Pair)</th>
</tr>
</thead>
<tbody>
<tr>
<td>165 - 215 mm</td>
<td>4.3 kg</td>
</tr>
</tbody>
</table>

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

KL-9001-14
Pair of Jaws, Size 4
Universally suitable.
Pair of standard jaws with closed attachment ring.

Technical Data:

<table>
<thead>
<tr>
<th>Spring Ø</th>
<th>Weight (Pair)</th>
</tr>
</thead>
<tbody>
<tr>
<td>220 - 255 mm</td>
<td>5.0 kg</td>
</tr>
</tbody>
</table>

KL-9001-14 SP  Pair of jaws size 4 with protective inserts (not shown)
As KL-9001-14, however with protective inserts included.

KL-9001-15
Pair of Jaws, Size 5
Universally suitable.
Pair of special jaws with closed attachment ring.

Technical Data:

<table>
<thead>
<tr>
<th>Spring Ø</th>
<th>Weight (Pair)</th>
</tr>
</thead>
<tbody>
<tr>
<td>255 - 300 mm</td>
<td>5.5 kg</td>
</tr>
</tbody>
</table>

KL-9001-15 SP  Pair of jaws size 5 with protective inserts (not shown)
As KL-9001-15, however with protective inserts included.

KL-9001-16
Pair of Jaws, Size 0, Extended Design
Suitable for VW Golf V rear axle, Volvo etc.
These jaws with an extended attachment axle (extended by approximately 30mm) are ideal for springs that are hard to reach. Thanks to the possibility to use an extended jaw in conjunction with a non-extended jaw, also conical springs can be compressed.

Technical Data:

<table>
<thead>
<tr>
<th>Spring Ø</th>
<th>Weight (Pair)</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 - 125 mm</td>
<td>3.0 kg</td>
</tr>
</tbody>
</table>

KL-9001-16 SP  Pair of jaws size 0 with protective inserts (not shown)
As KL-9001-16, however, with protective inserts included.

KL-9001-17
Pair of Jaws, Size 1, Extended Design
Suitable for Nissan Pathfinder, Seat Arosa, VW Lupo, Mercedes etc.
This pair of jaws with an extended attachment axle (extended by approximately 30mm) is ideal for springs that are hard to reach. Thanks to the possibility to use an extended jaw in conjunction with a non-extended jaw, also conical springs can be compressed.

Technical Data:

<table>
<thead>
<tr>
<th>Spring Ø</th>
<th>Weight (Pair)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 - 163 mm</td>
<td>3.7 kg</td>
</tr>
</tbody>
</table>

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

KL-9001-18
Pair of Jaws, Size 2, Extended Design
Suitable for Audi Q7, Porsche Cayenne, VW Touareg.
Designed to compress and decompress front springs.

Technical Data:

<table>
<thead>
<tr>
<th>Spring Ø</th>
<th>Weight (Pair)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 - 163 mm</td>
<td>4.1 kg</td>
</tr>
</tbody>
</table>

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

KL-9001-19
Pair of Jaws, Size 3, Extended Design
Suitable for Audi Q7, Porsche Cayenne, VW Touareg.
Designed to compress and decompress front springs.

Technical Data:

<table>
<thead>
<tr>
<th>Spring Ø</th>
<th>Weight (Pair)</th>
</tr>
</thead>
<tbody>
<tr>
<td>135 - 175 mm</td>
<td>4.5 kg</td>
</tr>
</tbody>
</table>

KL-9001-19 SP  Pair of jaws size 3 with protective inserts (not shown)
As KL-9001-19, however with protective inserts included.
Pair of Jaws, Size 2, Extended Design

Universally suitable.

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

Technical Data:

<table>
<thead>
<tr>
<th>For spring Ø</th>
<th>135 - 175 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (Pair)</td>
<td>3.7 kg</td>
</tr>
</tbody>
</table>

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

Pair of Jaws, Size 5

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

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

Technical Data:

<table>
<thead>
<tr>
<th>For spring Ø</th>
<th>70 - 116 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (Pair)</td>
<td>3.0 kg</td>
</tr>
</tbody>
</table>

KL-9001-32 SP Pair of Jaws, Size 0 with Protective Inserts

Suitable for Audi A8 (armoured) rear axle.

Ideal for conical and hard-to-reach springs.

Technical Data:

<table>
<thead>
<tr>
<th>Weight</th>
<th>3.4 kg</th>
</tr>
</thead>
</table>

Pair of Jaws, Size 4

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

Technical Data:

| Weight (Pair) | 3.2 kg |

Scope of Delivery: KL-9001-14 Pair of Jaws Size 4

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-9001-14A10</td>
<td>Jaw, size 4A</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-14B20</td>
<td>Jaw, size 4B</td>
<td>1</td>
</tr>
</tbody>
</table>

Jaw, Size 6

Suitable for Peugeot 206 (1998 onwards).

Special jaw with an open jaw ring.

Technical Data:

<table>
<thead>
<tr>
<th>For spring Ø</th>
<th>166 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>1.9 kg</td>
</tr>
</tbody>
</table>

Ring Jaw

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

Designed to compress and decompress front springs.

Technical Data:

<table>
<thead>
<tr>
<th>Clearance Ø</th>
<th>139 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Ø</td>
<td>160 mm</td>
</tr>
</tbody>
</table>

Adaptor Ring, BMW E46


Spacer ring for ring jaw KL-1571.

Technical Data:

<table>
<thead>
<tr>
<th>Clearance Ø</th>
<th>139 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Ø</td>
<td>160 mm</td>
</tr>
</tbody>
</table>

Ring Jaw with Adaptor Ring, MB W203

Suitable for Mercedes C-Class (W203).

Designed to compress and decompress front springs.

Scope of Delivery:

KL-9001-310 Ring Jaw with Adaptor Ring

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-9001-3100</td>
<td>Ring jaw MB W203</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-3111</td>
<td>Adaptor ring MB W203, without screws</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-3112</td>
<td>Countersunk screw M6 x 10</td>
<td>3</td>
</tr>
</tbody>
</table>
**KL-9001-20**
Pair of Protective Inserts, Size 0, with Grooved Nails
Matching the pair of jaws KL-9001-10.
8 grooved nails KL-9001-2002 included.

**KL-9001-21**
Pair of Protective Inserts, Size 1, with Grooved Nails
Matching the pair of jaws KL-9001-11.
8 grooved nails KL-9001-2002 included.

**KL-9001-22**
Pair of Protective Inserts, Size 2, with Grooved Nails
Matching the pair of jaws KL-9001-12.
8 grooved nails KL-9001-2002 included.

**KL-9001-23**
Pair of Protective Inserts, Size 3, with Grooved Nails
Matching the pair of jaws KL-9001-13.
8 grooved nails KL-9001-2002 included.

**KL-9001-91**
Jaw Set for BMW
Designed to compress and decompress front springs.

**Scope of Delivery:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-9001-1900</td>
<td>Ring jaw</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-1910</td>
<td>Adaptor ring BMW E46</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-1310 SP</td>
<td>Jaw, size 3, with protective insert</td>
<td>1</td>
</tr>
</tbody>
</table>

**KL-9001-92**
Jaw Set for Mercedes
Suitable for Mercedes C-Class (W203), CLK (W209).
Designed to compress and decompress front springs.

**Scope of Delivery:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-9001-1310 SP</td>
<td>Jaw, size 2A, extended design, with protective insert</td>
<td>1</td>
</tr>
</tbody>
</table>

**KL-9001-93 A**
Jaw Set, MB W211 4-matic, W230
Suitable for Mercedes E-Class (W211) and SL (W230) front axle.
Designed to compress and decompress front springs.

**Scope of Delivery:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-9001-1600 SP</td>
<td>Jaw, size 0, extended design with protective insert</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-312 A</td>
<td>Ring jaw with adaptor ring</td>
<td>1</td>
</tr>
</tbody>
</table>

**Scope of Delivery:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-9001-3100</td>
<td>Ring Jaw</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-3121 A</td>
<td>Adaptor Ring MB W211/W230, without Screws</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-3112</td>
<td>Countersunk screw M6 x 10 mm</td>
<td>3</td>
</tr>
</tbody>
</table>
Changing Springs and Shock Absorbers

**Jaw Set, Mercedes**

Suitable for Mercedes C-Class (W204) and GLK (X204).
Designed to compress and decompress front springs.

**Scope of Delivery: KL-9001-313  Jaw Set Mercedes**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-9001-3134</td>
<td>Ring jaw with clamping device</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-3131</td>
<td>Adapter ring MB W204</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-3132</td>
<td>Adapter ring MB X204</td>
<td>1</td>
</tr>
<tr>
<td>KL-9000-1810</td>
<td>Jaw, size 2A, extended design</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-2201</td>
<td>Protective Insert, size 2</td>
<td>1</td>
</tr>
</tbody>
</table>

**T-Handle Nut Driver with Pins, Mercedes**

Suitable for Mercedes W203 (C-Class), W209 (CLK) front axle.
Special nut driver for shock absorber piston rod nut.

**Jaw Set for BMW E87 / E90**

Suitable for BMW E87 and E90.
Designed to compress and decompress front springs.

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-9001-1900</td>
<td>Ring jaw</td>
<td>1</td>
</tr>
<tr>
<td>KL-1579</td>
<td>Adaptor ring BMW E90 for ring jaw</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-1700</td>
<td>SP Jaw, size 1, extended design with protective insert</td>
<td>1</td>
</tr>
</tbody>
</table>

**Holding Fixture for Suspension Struts**

Suitable for MacPherson suspension struts, shock-absorbers and steering systems.
This holding fixture is either screwed into position on a workbench or clamped into a vice thus enabling quick, safe and professional repair to be carried out.
Strut axles should NOT be clamped directly into a vice for assembly work (risk of deformation).

**Jaw Set, Mercedes**

Suitable for Mercedes E-Class (W212).
Designed to compress and decompress front springs.

**Scope of Delivery: KL-9001-314  Jaw Set Mercedes**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-9001-3150</td>
<td>Ring jaw</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-3148</td>
<td>Adapter ring MB W212</td>
<td>1</td>
</tr>
<tr>
<td>KL-9001-1810</td>
<td>SP Jaw, size 2A, extended design with protective insert</td>
<td>1</td>
</tr>
</tbody>
</table>

**Holding Fixture**

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

- Universally suitable, for example, for MacPherson strut/semi-strut designs
- Used as original tool by the world’s leading car manufacturers
- All components are available as spare parts
- High-quality product made in Germany
- Spindle drive also suitable for pneumatic impact wrench
- Self-Locking-Mechanism of the mobile spring compressing assembly, ensures spindle is pressure-free whilst compressing the spring
- Maximum Load Capacity 17,500 N
- Also suitable for compressing conical and barrel springs by using the adaptor KL-1590-1
- A wide range of jaws for various application possibilities is available
- Interchangeable plastic protective inserts to prevent damage to the spring surface are available

KL-0015

1-16
Changing Springs and Shock Absorbers

**Universal Spring Compressor**

- Compressing the spring on the vehicle and removing it
- Compressing the spring together with the upper spring plate
- Changing shock absorbers and adjusting the upper spring plate in conjunction with KL-0255 and KL-0255-10
- Compressing and decompressing conical springs in conjunction with KL-1590-1

**Compressing the spring together with the upper spring plate**
**KL-0015 Spring Compressor**

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

**Advantages:**
- Self-locking of the mobile jaw/sliding jaw mount.
- Also suitable for conical springs.
- Plastic protective inserts (optionally available).

**Technical Data:**
- Jaw opening: min. 50 mm / max. 345 mm
- Working travel: 295 mm
- Overall length: 475 mm
- Drive: 27 mm
- Maximum load: 17500 N
- Breaking point: 10000 N

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

**Scope of delivery:**
KL-0015 Spring Compressor

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0015-100</td>
<td>Cylinder</td>
<td>1</td>
</tr>
<tr>
<td>KL-1510</td>
<td>Pair of jaws size 1N</td>
<td>1</td>
</tr>
<tr>
<td>KL-1520</td>
<td>Pair of jaws size 2N</td>
<td>1</td>
</tr>
</tbody>
</table>

**KL-0015 SP**
Spring Compressor (not shown)

As KL-0015 however, with pairs of jaws with protective inserts.

**KL-2000 Spring Compressor**

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

**Advantages:**
- Load guided in cylinder tube.
- Hardened cylinder tube.

**Technical Data:**
- Jaw opening: 45-290 mm
- Working travel: 245 mm
- Overall length: 410 mm
- Drive: reversible ratchet or impact wrench
- Max. load: 8500 N
- Breaking point: 32000 N

**Scope of Delivery:**
KL-2000 Spring Compressor

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-2000-100</td>
<td>Cylinder</td>
<td>1</td>
</tr>
<tr>
<td>KL-1510</td>
<td>Pair of jaws size 1N</td>
<td>1</td>
</tr>
<tr>
<td>KL-1520</td>
<td>Pair of jaws size 2N</td>
<td>1</td>
</tr>
</tbody>
</table>

**KL-2000 SP**
Spring Compressor (not shown)

As KL-2000, but supplied with pairs of jaws with protective inserts.
Changing Springs and Shock Absorbers

**KL-1502**

**Pair of Jaws, Size 0C**
Universally suitable.

Technical Data:

<table>
<thead>
<tr>
<th>For spring Ø:</th>
<th>70 - 110 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (Pair):</td>
<td>1.1 kg</td>
</tr>
</tbody>
</table>

**KL-1502-SP** Pair of jaws size Gr. 0 C with protective inserts
As KL-1502, however, supplied with plastic protective inserts.

**KL-1503**

**Pair of Jaws, Size 3N**
Universally suitable.

Technical Data:

<table>
<thead>
<tr>
<th>For spring Ø:</th>
<th>180 - 240 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (Pair):</td>
<td>3.9 kg</td>
</tr>
</tbody>
</table>

**KL-1525-SP**

**Jaw with Protective Insert, Size 2B**
Suitable for BMW 3-Series E46, BMW 5-Series E39.

Technical Data:

<table>
<thead>
<tr>
<th>For spring Ø:</th>
<th>156 - 195 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (Piece):</td>
<td>0.9 kg</td>
</tr>
</tbody>
</table>

**KL-1510**

**Pair of Jaws, Size 1N**
Universally suitable.

Technical Data:

<table>
<thead>
<tr>
<th>For spring Ø:</th>
<th>80 - 165 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (Pair):</td>
<td>1.9 kg</td>
</tr>
</tbody>
</table>

**KL-1510-SP** Pair of jaws size 1N with protective inserts
As KL-1510, however, supplied with plastic protective inserts.

**KL-1511**

**Pair of Jaws, Size 2N**
Universally suitable.

Technical Data:

<table>
<thead>
<tr>
<th>For spring Ø:</th>
<th>156 - 195 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (Pair):</td>
<td>1.9 kg</td>
</tr>
</tbody>
</table>

**KL-1520-SP** Pair of jaws Size 2N with protective inserts
As KL-1520, however, supplied with plastic protective inserts.

**KL-1512**

**Pair of Jaws, Size 1A**
Suitable for Audi A4 front axle, Audi A8 rear axle, Porsche, Saab 90/900, Chrysler, Vauxhall/Opel etc.

Technical Data:

<table>
<thead>
<tr>
<th>For spring Ø:</th>
<th>80 - 150 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (Pair):</td>
<td>1.9 kg</td>
</tr>
</tbody>
</table>

**KL-1512-SP** Pair of jaws Size 1A with protective inserts
As KL-1512; however, supplied with plastic protective inserts.

**KL-1514**

**Pair of Jaws, Size 1B**
Suitable for Audi A8 front axle.

Technical Data:

<table>
<thead>
<tr>
<th>For spring Ø:</th>
<th>85 - 150 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (Pair):</td>
<td>2.0 kg</td>
</tr>
</tbody>
</table>

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

**KL-1516-SP**

**Pair of Jaws with Protective Inserts, Size 1C**
Suitable for Audi A4 (model 2001 onwards) rear axle wishbone.

These jaws allow the removal and replacement of rear axle springs to be performed within a few minutes without having to loosen the wishbone or lower the axle.

This technique eliminates the need for performing a wheel alignment after springs have been replaced.
KL-1550
Pair of Jaws, Size 5
Suitable for Citroën C 15 rear axle, Peugeot 305 Break rear axle.

Technical Data:
- Weight (Pair): 2.3 kg

Scope of Delivery: KL-1550  Pair of Jaws Size 5

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-1551</td>
<td>Jaw, Size 5A</td>
<td>1</td>
</tr>
<tr>
<td>KL-1553</td>
<td>Jaw, Size 5B</td>
<td>1</td>
</tr>
</tbody>
</table>

KL-1561
Jaw, Size 6
Suitable for Ford Probe, Mazda 323, 626, MX6, Mitsubishi-Galant with electronically-pneumatically controlled strut, Peugeot 206.

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

KL-1571
Ring Jaw, BMW
Suitable for BMW 8-Series E31 and, when used in conjunction with the adaptor ring KL-9001-1910, also suitable for BMW 3-Series E46 (models 1998 onwards), BMW 5-Series E39 (models 1995 onwards).

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Weight</th>
<th>Spring Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-1571</td>
<td>Piece 2.3 kg</td>
<td>Special recess: 139 mm Inner-Ø: 165 mm</td>
</tr>
</tbody>
</table>

KL-1581-R
Ring Jaw for Renault
Suitable for Renault Laguna and Safrane, Hyundai, and in conjunction with jaw size 3 also for Lancia Gamma

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

KL-1502-S
Pair of Protective Inserts Size 0 C
Designed to be used with the pair of jaws KL-1502. 6 grooved nails KL-9001-2002 included.

KL-1512-S
Pair of Protective Inserts, Size 1A
Suitable for the pair of jaws KL-1512.

KL-1514-S
Pair of Protective Inserts, Size 1B
Suitable for the pair of jaws KL-1514.

KL-1510-S
Pair of Protective Inserts, Size 1N
Suitable for the pair of jaws KL-1510.

KL-1520-S
Pair of Protective Inserts Size 2N
Suitable for the pair of jaws KL-1520.

KL-1521-S
Protective Insert, Size 2N
Suitable for the jaw KL-1525.

KL-1510
Pair of Protective Inserts Size 1N
Suitable for the pair of jaws KL-1510.
Changing Springs and Shock Absorbers

KL-1540
Jaw Set, (4-piece set), Size 4
Suitable for VW Golf, Bora vehicles equipped with 4-wheel drive (4 Motion).
These specially shaped jaws are indispensable for the removal and installation of rear axle suspension coil springs.

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-1541</td>
<td>Jaw size 4 bottom left</td>
</tr>
<tr>
<td>KL-1543</td>
<td>Jaw size 4 top left</td>
</tr>
<tr>
<td>KL-1545</td>
<td>Jaw size 4 bottom right</td>
</tr>
<tr>
<td>KL-1547</td>
<td>Jaw size 4 top right</td>
</tr>
</tbody>
</table>

KL-1570-1
Jaw Set, BMW
The jaw set KL-1570-1 is indispensable for compressing the front spring. Set is used in conjunction with jaw ring KL-1571.

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Spring Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-1525</td>
<td>Jaw, size 2B</td>
<td>155-195 mm</td>
</tr>
<tr>
<td>KL-1521-S</td>
<td>Protective insert, size 2N</td>
<td>155-195 mm</td>
</tr>
<tr>
<td>KL-1571-S</td>
<td>Adaptor ring, BMW E46</td>
<td>190 mm</td>
</tr>
</tbody>
</table>

KL-1579-1
Jaw Set, BMW E90
Suitable for BMW E87/E90/E91/E92/E93 front axle.
For removing and installing front axle coil springs.

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-1511-SP</td>
<td>Jaw with protective insert size 1N</td>
</tr>
<tr>
<td>KL-1590-1</td>
<td>Adaptor for conical springs</td>
</tr>
<tr>
<td>KL-1579-1</td>
<td>Ring jaw with adaptor ring BMW E90</td>
</tr>
</tbody>
</table>

KL-1590-1
Adaptor for conical springs
Suitable for Alfa Romeo, Chrysler, Nissan, Seat Arosa, VW Lupo etc. Used to extend the jaws.

Scope of Delivery: KL-1590-1 Adaptor for conical springs

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-1590-1</td>
<td>Adaptor for conical springs</td>
<td>2</td>
</tr>
</tbody>
</table>

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

Scope of Delivery: KL-1590-2 Adaptor Set

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-1590-1</td>
<td>Adaptor for conical springs</td>
</tr>
</tbody>
</table>

KL-0055-50
Holding Fixture for Suspension Struts
Suitable for MacPherson suspension struts, shock-absorbers and steering systems.
The holding fixture is screwed into position on the workbench thus enabling a quick, safe and professional repair to be carried out. Strut axles should NOT be clamped into a vice for assembly work (risk of deformation).

Scope of Delivery: KL-0055-50 Holding Fixture for Suspension Struts

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-1590-1</td>
<td>Adaptor for conical springs</td>
</tr>
</tbody>
</table>

KL-0055-60
Holding Fixture for Suspension Struts
Suitable for MacPherson suspension struts, shock-absorbers and steering systems.
This holding fixture is either screwed into position on a workbench or clamped into a vice thus enabling quick, safe and professional repair to be carried out. Strut axles should NOT be clamped directly into a vice for assembly work (risk of deformation).
KL-0025-1  Spring Compressor (long version) with pressure plates size 1+2  (German Utility Model)

- High-quality product made in Germany
- Universal field of application thanks to a wide range of pressure plates.
- Used as original tool by the world's leading car manufacturers
- All components are available as spare parts
- All critical components are drop-forged and highly annealed
- Safe working thanks to the anti-rotation profile and safety interlock mechanism
- Automatic free-wheel at end of stroke
- Spindle overload protection

Application Movie

3-point safety interlock mechanism
Telescopic tube
Anti-rotation profile
Safety pin
Drive Size 19 mm
Auxiliary drive size (width across flats) 10 mm
Changing Springs and Shock Absorbers

Spring Compressor (long version) with pressure plates size 1+2 (German Utility Model) KL-0025-1

Mercedes, Renault, Peugeot

Mercedes W124, W201, W202, W210

Mercedes, Ford USA

Mercedes W123, W126, W140

Ford, GM, Chrysler, Hummer

Ford, GM, Japanese passenger cars

Compressing the spring in situ on the vehicle and removing it.
KL-0025-1 K  Spring Compressor, with Pressure Plates in Size 1+2 (German Utility Model)

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

This universal telescopic safety spring compressor with a 3-point safety interlock mechanism, anti-rotation profile and spindle overload protection is unrivalled.
It enables the user to quickly and safely remove and install coil springs on wishbone and independent multi-link suspensions without having to dismantle the axe (exceptions possible). This provides a high level of safety and, at the same time, a substantial job time saving of 1 - 2 hours.

Advantages:
- The 3-point safety interlock mechanism enables the compression of a spring only when the piston has been locked correctly in the pressure plate. Thus, accidents due to wrong interlocking are eliminated.
- Automatic freewheel ensures the freewheeling of the spindle when the maximum compression length has been reached, thus preventing any pressure on the limits stops of the spring compressor.
- All important components such as pressure plates, piston, intermediate tube, and housing are interlocked to one another. This safety feature eliminates the risk of a compressed spring unwinding itself.
- All critical components are drop-forged and highly annealed.
- The spring compressor has been tested and approved by German BG (German Employer's Liability Insurance Association) and by Mercedes.
- Due to its special telescopic design, the length of the tool changes whilst compressing a spring, thus very often enabling coil springs to be replaced without the need to dismantle the suspension. Time savings of between ½ and 2 hours per spring can so be achieved.
- Universal field of application thanks to a wide range of pressure plates.

Technical Data:
- Max. load: 30 000 N
- Jaw opening: 110-317 mm
- Working travel: 207 mm
- Overall length: 263 mm
- Drive: 19 mm hex
- Breaking point: 120 000 N
- Weight: 1.5 kg

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

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0025-100</td>
<td>Base body (long design)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0025-11</td>
<td>Pair of pressure plates size 1</td>
<td>1</td>
</tr>
<tr>
<td>KL-0025-12</td>
<td>Pair of pressure plates size 2</td>
<td>1</td>
</tr>
<tr>
<td>KL-0025-1090</td>
<td>Plastic storage case</td>
<td>1</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0025-100</td>
<td>Base body (long design)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0025-11</td>
<td>Pressure Plates Size 1</td>
<td>1</td>
</tr>
<tr>
<td>KL-0025-12</td>
<td>Pressure Plates Size 2</td>
<td>1</td>
</tr>
</tbody>
</table>
Changing Springs and Shock Absorbers

**Spring Compressor, Mercedes**  
(Deutsche Patentanmeldung)  
KL-0021

For wishbone and independent multi-link suspensions; comes with pairs of pressure plates size 1 and 2. Suitable for Mercedes 190 (W201), C-Class (W202), CLK (W208), E-Class (W210), S-Class (W140), SL (R129), SLK (R170), W116, W123, W124, and W126 front and rear axle.

Ford, GM, Chrysler, VW T2 and LT, Fiat, Hummer, Mazda, Toyota, Nissan, Mitsubishi, Renault, Peugeot, Volvo, etc.

This universal telescopic safety spring compressor with a 3-point safety interlock mechanism, anti-rotation profile and spindle overload protection enables the user to quickly and safely remove and install coil springs on wishbone and independent multi-link suspensions without having to dismantle the axle (exceptions possible). This provides a high level of safety and, at the same time, a substantial job time saving of 1 - 2 hours.

**Advantages:**
- 3-point safety interlock mechanism
- Automatic freewheel
- Anti-rotation profile

**Technical Data:**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. load.</td>
<td>30,000 N</td>
</tr>
<tr>
<td>Jaw opening</td>
<td>110-317 mm</td>
</tr>
<tr>
<td>Working travel</td>
<td>207 mm</td>
</tr>
<tr>
<td>Overall length</td>
<td>262.5 mm</td>
</tr>
<tr>
<td>Drive</td>
<td>Size (width across flats) 19 mm hex</td>
</tr>
<tr>
<td>Breaking point</td>
<td>120,000 N</td>
</tr>
<tr>
<td>Weight</td>
<td>1.5 kg</td>
</tr>
</tbody>
</table>

**Accessories:** KL-0025-16 - Pair of pressure plates  
Suitable for Mercedes W211 (E-Class) rear axle.

**Scope of Delivery:**  
KL-0021 Spring Compressor

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0021-100</td>
<td>Base body 1</td>
<td>1</td>
</tr>
<tr>
<td>KL-0025-11</td>
<td>Pair of pressure plates size 1</td>
<td>1</td>
</tr>
<tr>
<td>KL-0025-12</td>
<td>Pair of pressure plates size 2</td>
<td>1</td>
</tr>
</tbody>
</table>

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

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

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

**Advantages:**
- Automatic 3-Point Safety Interlock
- Automatic freewheel at end of stroke
- Anti-rotation profile
- Spindle overload protection

**Technical Data:**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. load.</td>
<td>30,000 N</td>
</tr>
<tr>
<td>Jaw opening</td>
<td>110-287 mm</td>
</tr>
<tr>
<td>Working travel</td>
<td>177 mm</td>
</tr>
<tr>
<td>Overall length</td>
<td>233 mm</td>
</tr>
<tr>
<td>Drive</td>
<td>Size (width across flats) 19 mm hex</td>
</tr>
<tr>
<td>Breaking point</td>
<td>120,000 N</td>
</tr>
<tr>
<td>Weight</td>
<td>1.3 kg</td>
</tr>
</tbody>
</table>

**Scope of Delivery:**  
KL-0025-2 Spring Compressor (Short Design)

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0025-200</td>
<td>Base body (short design)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0025-11</td>
<td>Pair of pressure plates size 1</td>
<td>1</td>
</tr>
<tr>
<td>KL-0025-12</td>
<td>Pair of pressure plates size 2</td>
<td>1</td>
</tr>
</tbody>
</table>
KL-0025-11
Pair of Pressure Plates, Size 1
Suitable for Mercedes 190 (W201), C-Class (W202), SL (R129),
W116, W123, W124, front spring; 190 (W201), C-Class (W202),
SL (R129), W124; 4-Matic rear spring; Saab; Skoda; Ford; etc.
Features an anti-rotation profile - to lock the pressure plates and
prevent them from distorting during the compression process or in a
stressed position, thus eliminating the risk of a stressed spring
unwinding itself out of the spring compressor.

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

Scope of Delivery: KL-0025-11  Pair of Pressure Plates, Size 1
Part No. | Description | Qty.
--- | --- | ---
KL-0025-1101 | Pressure plate Size. 1 with interlock mechanism | 1
KL-0025-1102 | Pressure plate Size. 1 with corrugated profile | 1

KL-0025-12
Pair of Pressure Plates, Size 2
Suitable for Mercedes S-Class (W140) and W126 front spring;
Mercedes C-Class (W203), S-Class (W140), SL (R107), W114,
W115, W116, W123 und W126 rear spring; Vauxhall/Opel; GM;
Lada; Peugeot; Rover; Hyundai; Saab; Volvo; VW T2; Ford
Taunus; Mitsubishi; etc.

Technical Data:
Compression range: Spring-Ø: 20-140 mm; incline to: 240°=6 mm
Weight: 1.6 kg

Scope of Delivery: KL-0025-12  Pair of Pressure Plates Size 2
Part No. | Description | Qty.
--- | --- | ---
KL-0025-1201 | Pressure plate Size. 2 with interlock mechanism | 1
KL-0025-1202 | Pressure plate Size. 2 with corrugated profile | 1

KL-0025-13
Pair of Pressure Plates, Size 3
Universally suitable.

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

Scope of Delivery: KL-0025-13  Pair of Pressure Plates Size 3
Part No. | Description | Qty.
--- | --- | ---
KL-0025-1301 | Pressure plate Size 3 with interlock mechanism | 1
KL-0025-1302 | Pressure plate Size 3 with corrugated profile | 1

KL-0025-14
Pair of Pressure Plates, Size 4
Universally suitable.

Technical Data:
Compression range: Spring-Ø: 105-190 mm; incline to: 180°=25/15 mm
Weight: 2.5 kg

Scope of Delivery: KL-0025-14  Pair of Pressure Plates Size 4
Part No. | Description | Qty.
--- | --- | ---
KL-0025-1401 | Pressure plate Size 4 with interlock mechanism | 1
KL-0025-1402 | Pressure plate Size 4 with corrugated profile | 1

KL-0025-15
Pair of Pressure Plates, Size 5
Suitable for Mercedes W124 4-Matic front axle.

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

Scope of Delivery: KL-0025-15  Pair of Pressure Plates Size 5
Part No. | Description | Qty.
--- | --- | ---
KL-0025-1501 | Pressure plate Size 5 with interlock mechanism | 1
KL-0025-1502 | Pressure plate Size 5 with corrugated profile | 1

KL-0025-16
Pair of Pressure Plates, Size 0A
Suitable for Mercedes rear spring, for example, E-Class (W211
4-matic), CLK (W209); BMW 1-Series (E87) rear axle, BMW 3-
Series (E90) rear axle.

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

Scope of Delivery: KL-0025-16  Pair of Pressure Plates Size 0A
Part No. | Description | Qty.
--- | --- | ---
KL-0025-1601 | Pressure plate Size 0A with interlock mechanism | 1
KL-0025-1602 | Pressure plate Size 0A with corrugated profile | 1

KL-0025-17
Pair of Pressure Plates, M-Class
Suitable for Mercedes rear axle M-Class (W164).

Technical Data:
Compression range: Spring-Ø: 110-130 mm; incline to: 270°=7 mm
Weight: 1.9 kg

Scope of Delivery: KL-0025-17  Pair of Pressure Plates M-Class
Part No. | Description | Qty.
--- | --- | ---
KL-0025-1701 | Pressure plate Size 1.5 with interlock mechanism | 1
KL-0025-1702 | Pressure plate Size 1.5 with corrugated profile | 1
Supporting Device

Universal application.
The device is used in conjunction with a transmission jack for supporting steering knuckles. The support takes place via the wheel nut ensuring the correct raising and lowering of steering knuckles/axles to specified positions. Indispensable when removing and installing a suspension strut.

Technical Data:
- Retaining-Ø: 30 mm

Adaptor Retaining Sleeve VW

This sleeve enables the retaining device KL-0040-2588 or the supporting device KL-0145-120 to be used in conjunction with the VW Transmission Jack.

Technical Data:
- Pin-Ø: 30 mm
- Retaining-Ø: 36 mm

Spring Compressor (Universal)

Universally suitable for use on springs in which the spring pressure does not exceed 8,000 N.
The spindles feature contra-rotating threads which eliminate the risk of slipping off. (Not suitable for use on Mercedes springs.)

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

Technical Data:
- Max. load: 8,000 N
- Jaw opening: 65-320 mm

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

Spring Compressor (Universal)

Allows compressing the spring in-situ on the vehicle, so that the strut can be removed without dismounting the steering knuckle. This is important on the front axle of VW vehicles and on the rear axle of Ford Mondeo, etc.
The spindles are equipped with contra-rotating threads which eliminate the risk of slipping round the spring. (Not suitable for use on Mercedes springs.)

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

Technical Data:
- Max. load capacity: 8,000 N
- Jaw opening: 65-200 mm
KL-0006  
Spring Compressor, Ford, Mercedes  
(Universal)

Suitable for Ford and Mercedes.

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

Advantages:

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

Note:

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

Technical Data:

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

KL-0016  
Spring Compressor, BMW 8-Series

For wishbone (front and rear axles); e.g. rear axle on the BMW 8-Series; tool comes with pair of pressure plates size 0.

This spring compressor allows the replacement of coil springs without the need for dismantling the rear axle.

Technical Data:

| Jaw opening: | 25-270 mm |
| Working travel: | 245 mm |
| Max. load: | 20,000 N |

Accessories:

- Pair of pressure plates KL-0016-1 for Mercedes W124/W201
- Pair of pressure plates KL-0016-2 for Mercedes W123/W126

Scope of delivery

KL-0016  Spring Compressor

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0016-0001</td>
<td>Spindle</td>
<td>1</td>
</tr>
<tr>
<td>KL-0016-0002</td>
<td>Press piece (complete)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0016-0005</td>
<td>Hex shoulder nut</td>
<td>1</td>
</tr>
<tr>
<td>KL-0016-0007</td>
<td>Pressure plate (upper) Size 0</td>
<td>1</td>
</tr>
<tr>
<td>KL-0016-0008</td>
<td>Pressure plate (lower) Size 0</td>
<td>1</td>
</tr>
<tr>
<td>KL-0016-0015</td>
<td>Socket</td>
<td>1</td>
</tr>
</tbody>
</table>

KL-0026  
Spring Compressor

For Jaguar XJ-6.

This spring compressor allows front springs to be removed and replaced quickly and safely by only one person.

Scope of Delivery:

KL-0026  Spring Compressor

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0026-100</td>
<td>Spring compressor</td>
<td>1</td>
</tr>
<tr>
<td>KL-0026-0007</td>
<td>Pressure plate Ø130 mm</td>
<td>1</td>
</tr>
<tr>
<td>KL-0008-0004</td>
<td>Tubular box spanner</td>
<td>1</td>
</tr>
</tbody>
</table>
Changing Springs and Shock Absorbers

Spring Compressor

For Jaguar XJ-S and Aston Martin.
Special compressing technique allows for quick and safe replacement of front springs despite the arched mounting position.

Scope of Delivery: KL-0008 Spring Compressor

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0008-100</td>
<td>Spring compressor</td>
<td>1</td>
</tr>
<tr>
<td>KL-0008-0004</td>
<td>Tubular box spanner for KL-0008</td>
<td>1</td>
</tr>
</tbody>
</table>

Technical Data:
- Max. load: 10000 N
- Jaw opening: 42-210 mm
- Spring-Ø: 110-188 mm
- Drive: Size (waf) 24 mm

Shock Absorber Service Tool Kit

For changing shock absorber inserts without dismounting the MacPherson Strut.

Scope of Delivery: KL-.80 Shock Absorber Service Tool Kit

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0008-100</td>
<td>Spring compressor</td>
<td>1</td>
</tr>
<tr>
<td>KL-0008-0004</td>
<td>Tubular box spanner for KL-0008</td>
<td>1</td>
</tr>
</tbody>
</table>

Special Hex Socket (waf) 14 mm

The special long impact socket size (waf) 24 mm with a ½" drive enables the spring compressor KL-0008-1 to be operated by an impact wrench.
Universal application.
Indispensable tool set used to lock the shock absorber piston rod in position while loosening or tightening the piston rod nut, e.g. on MacPherson suspension strut systems.

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

Scope of Delivery: KL-0056-100 K  Shock Absorber Piston Rod Tool Set

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0056-17</td>
<td>Special hexagon socket 17 mm (waf)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0056-18</td>
<td>Special hexagon socket 18 mm (waf)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0056-19</td>
<td>Special hexagon socket 19 mm (waf)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0056-21</td>
<td>Special hexagon socket 21 mm (waf)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0056-22</td>
<td>Special hexagon socket 22 mm (waf)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0056-24</td>
<td>Special hexagon socket 24 mm (waf)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0056-37</td>
<td>Insert Torx® T50</td>
<td>1</td>
</tr>
<tr>
<td>KL-0056-45</td>
<td>Insert hex. 11 mm (waf)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0056-51</td>
<td>Hex socket insert 6 mm (waf)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0056-52</td>
<td>Hex socket insert 7 mm (waf)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0056-71</td>
<td>Insert double flat 5.2 mm (waf)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0056-72</td>
<td>Insert double flat 6 mm (waf)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0056-74</td>
<td>Insert double flat 8 mm (waf)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0056-96</td>
<td>Insert XZN-M12</td>
<td>1</td>
</tr>
</tbody>
</table>

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

Application list:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Suitable for</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0056-17</td>
<td>17 mm</td>
<td>Audi: A3, A4, A6; Honda: Civic, Mazda 3, 5; Mercedes: M-class (W163), E-class (W211); Peugeot: 4007</td>
</tr>
<tr>
<td>KL-0056-18</td>
<td>18 mm</td>
<td>Audi: A3, A4, A6; Ford: C-Max, Mondeo III; Opel/Vauxhall: Astra F, Porsche; Renault: Megane, Modus; Volvo: S40, V40, XC60, C70</td>
</tr>
<tr>
<td>KL-0056-19</td>
<td>19 mm</td>
<td>Audi: A8; BMW: 5-Series (E39); Fiat: Punto, Bravo, Idea, Doblo</td>
</tr>
<tr>
<td>KL-0056-21</td>
<td>21 mm</td>
<td>BMW: 1-Series (E87), 3er (E90), X5; Dacia: Logan; Mercedes: C-Class (W203), Viano, Vito; Mini: One (2007 onwards); Mitsubishi: Colt; Volvo: S60, S80, XC 90; Peugeot: 205, 206, 306, 308, 309, 605; Seat: Ibiza; VW: Polo (9N, 6R), Golf IV, Scirocco, Passat</td>
</tr>
<tr>
<td>KL-0056-22</td>
<td>22 mm</td>
<td>BMW: 3-Series (E36), 5-Series (E34), Mercedes, Opel/Vauxhall</td>
</tr>
<tr>
<td>KL-0056-24</td>
<td>24 mm</td>
<td>Opel/Vauxhall: Astra (2000 onwards), Omega</td>
</tr>
<tr>
<td>KL-0056-37</td>
<td>Torx T50</td>
<td>Opel/Vauxhall: Astra (2000 onwards), XC80</td>
</tr>
<tr>
<td>KL-0056-45</td>
<td>11 mm</td>
<td>Jap. Vehicle; Opel/Vauxhall: Omega</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Suitable for</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0056-51</td>
<td>Allen Key 6 mm</td>
<td>Alfa Romeo: 159; Audi: A3, A4, A6, A8; BMW: 1-Series (E87), 3-Series (E36), 5-Series (E90), 5-Series (E34), 5-Series (E38), X5; Dacia: Logan; Fiat: Punto, Bravo, Idea, Doblo; Ford: C-Max, Mondeo, Civic; Mazda: 3, 5; Mitsubishi: Colt; Renault: Twingo, Megane, Modus, Traffic; Seat: Ibiza, Ibiza; VW: Polo (9N, 6R), Golf IV, Golf VI, Scirocco, Passat; Peugeot: 205, 207, 306, 308, 309, 405, 406, 605; Seat: Ibiza, Ibiza; VW: Polo (9N, 6R), Golf IV, Golf VI, Scirocco, Passat</td>
</tr>
<tr>
<td>KL-0056-52</td>
<td>Allen Key 7 mm</td>
<td>Fiat: Scudo; Mercedes: C-Class (W203), Vito, Viano; Peugeot: 205, 207, 208, 306, 308, 309, 405, 406, 605; Seat: Ibiza, Ibiza; VW: Polo (9N, 6R), Golf IV, Golf VI, Scirocco, Passat</td>
</tr>
<tr>
<td>KL-0056-71</td>
<td>2-point 5.2 mm</td>
<td>Audi: Mitsubishi: Colt, Micra, Primera; VW</td>
</tr>
<tr>
<td>KL-0056-72</td>
<td>2-point 6 mm</td>
<td>Audi: A3, A4, A6</td>
</tr>
<tr>
<td>KL-0056-74</td>
<td>2-point 7 mm</td>
<td>Audi: Citroen; Mercedes: C-Class (W203), M-Class (W163); VW: Touareg</td>
</tr>
<tr>
<td>KL-0056-75</td>
<td>2-point 8 mm</td>
<td>Mitsubishi: Colt, Outlander; Peugeot: 4007; Volvo: S40</td>
</tr>
<tr>
<td>KL-0056-96</td>
<td>XZN M12</td>
<td>Opel/Vauxhall: Astra F, Vectra A, Calibra, Omega</td>
</tr>
</tbody>
</table>
Changing Springs and Shock Absorbers

**Insert Torx® T40, Porsche / VW**

KL-0056-35

Suitable for Porsche Cayenne, VW Touareg etc.

Designed to prevent the damper piston rod from rotating while loosening or tightening the damper piston rod nut. In conjunction with a special socket of the KL-0056-.. Series, the tool is used, for example, on MacPherson Struts and Semi-Struts.

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

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**Insert, Size (waf) 5 mm, internal hex**

KL-0056-50

Designed to prevent the damper-rod from rotating while loosening or tightening the damper piston rod nut. In conjunction with a special socket of the KL-0056-.. Series, the tool is used, for example, on MacPherson Struts and Semi-Struts.

---

**Strut Tool**

KL-0250-1

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

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

Technical Data:

<table>
<thead>
<tr>
<th>Length</th>
<th>182 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>139 g</td>
</tr>
<tr>
<td>2-point</td>
<td>5 and 6 mm</td>
</tr>
</tbody>
</table>

---

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

KL-0050-0070

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

Scope of Delivery:

**KL-0050-0070 Set of Nut Sockets with Pins (3-piece set)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Bore</th>
<th>Suitable for</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0050-0012</td>
<td>Nut socket with pin 10.5 mm</td>
<td>VW Golf rear axle</td>
<td></td>
</tr>
<tr>
<td>KL-0050-0013</td>
<td>Nut socket with pin 12.5 mm</td>
<td>VW Polo front axle</td>
<td></td>
</tr>
<tr>
<td>KL-0050-0014</td>
<td>Nut socket with pin 14.5 mm</td>
<td>Polo, Golf, Passat, Audi 80, Vento</td>
<td></td>
</tr>
</tbody>
</table>

Accessories:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0050-0015</td>
<td>Nut socket with pin 14.5 mm Austin Maestro</td>
</tr>
</tbody>
</table>

---

**Set of Nut Sockets with Pins (4-piece set)**

KL-0050-0071

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

Scope of Delivery:

**KL-0050-0071 Set of Nut Sockets with Pins (4-piece set)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Bore</th>
<th>Suitable for</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0050-0012</td>
<td>Nut socket 10.5 mm</td>
<td>VW Golf rear axle</td>
<td></td>
</tr>
<tr>
<td>KL-0050-0013</td>
<td>Nut socket 12.5 mm</td>
<td>VW Polo rear axle</td>
<td></td>
</tr>
<tr>
<td>KL-0050-0014</td>
<td>Nut socket 14.5 mm</td>
<td>Polo, Golf, Passat, Audi 80</td>
<td></td>
</tr>
<tr>
<td>KL-0050-0015</td>
<td>Nut socket 14.5 mm</td>
<td>Austin Maestro</td>
<td></td>
</tr>
</tbody>
</table>

---

**T-Handle Nut Driver with Pins, Mercedes**

KL-0050-50

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

Special nut driver for shock absorber piston rod nut.
KL-0050-510 Shock Absorber Piston Rod Tool Set, Mercedes

Suitable for Mercedes C-Class (W203) and CLK (W209) front axle.
For loosening and tightening the shock absorber piston rod nut (groove nut).

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0050-51</td>
<td>Nut socket with pins, Mercedes W203</td>
<td>1</td>
</tr>
<tr>
<td>KL-0050-52</td>
<td>Insert, internal hex (waf) 7 mm</td>
<td>1</td>
</tr>
</tbody>
</table>

KL-0050-511 Shock Absorber Pin Wrench, Mercedes

Suitable for Mercedes E-Class (W211) T-Model (estate car), rear axle.
For loosening and tightening the piston rod fastening nut. The pin wrench KL-0050-511 is designed to lock the upper mounting plate during the loosening process.

Technical Data:

- Drive: 3/8"

KL-0050-5221 Special Hex Socket, Size (waf) 21 mm, BMW

Suitable for BMW-vehicles, e.g. 1-Series (E87), 3-Series (E46, E90), 5-Series (E39, E60, E61), 6-Series (E63, E84), 7-Series (E38, E65, E66), X5 (E53), X3 (E83), Z8 (E52), Z4 (E86); Mini Cooper (R50, R52, R53) front axle.
The cut-out in the socket KL-0050-5221 is designed to counterhold the piston rod when loosening and tightening the piston rod fastening nut. This feature prevents the piston rod from turning out of position and consequently the risk of damaging the actuator cable (front axle with EDC) is eliminated.

Technical Data:

- Size (waf): 21 mm
- Drive: 19 mm

KL-0050-100 Set of Special Sockets, Audi / VW

Suitable for Audi 80, 90, 100, 200, A6, VW Polo, Golf, Jetta, Vento, Passat, etc.
Extra long special sockets for loosening and tightening the shock-absorber cartridge fastening thread rings.

Scope of Delivery: KL-0050-100 Set of Special Sockets Audi / VW

<table>
<thead>
<tr>
<th>Part-No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0050-1</td>
<td>Special Socket (waf) 29 mm</td>
<td>1</td>
</tr>
<tr>
<td>KL-0050-2</td>
<td>Special Socket (waf) 33.5 mm</td>
<td>1</td>
</tr>
</tbody>
</table>

KL-0050-0001 Pulling T-Wrench M12x1.25 BMW

Pulling T-Wrench for shock absorber piston rod.

KL-0050-0006 Pulling T-Wrench, M14x1.5

Suitable for VW-Audi, Vauxhall/Opel.

Technical Data:

- Inner -Thread: M14x1.5

KL-0050-0002 Pulling T-Wrench, M15x1.5

Suitable for GM / Vauxhall / Opel.

Technical Data:

- Inner -Thread: M15x1.5

KL-0050-0003 Pulling T-Wrench, M12x1.5

Suitable for Audi.

Technical Data:

- Inner -Thread: M12x1.5

KL-0050-0005 Pulling T-Wrench, M10x1

Suitable for Renault.

Technical Data:

- Inner -Thread: M10x1
Changing Springs and Shock Absorbers

**Shock Absorber Tool Kit, in a Plastic Storage Case**

*Universal. Designed to loosen shock absorber screwed-connections, including De Carbon gas shock absorber systems (not suitable for Bilstein).*

The use of the KLANN Tool Set KL-0054-K guarantees professional mounting of threaded rings when replacing a shock absorber. Stubborn or corroded threaded rings are quickly and easily undone. The flat- and round-profiled slide blocks included in the tool set allow the universal and correct application of the tool on the corresponding type of shock absorber threaded rings. The KL-0054-0010 special socket also enables easy loosening of threaded rings on gas shock absorbers which have strengthened damper-rods (except “Bilstein”). The drive-head of the special socket features a series of milled stages with dimensions 46, 51, 55, 58 and 60 mm that make it suitable for use on the most common shock absorber threaded rings. This allows the special socket KL-0054-0010 also to be used directly on shock absorber threaded rings.

**Scope of Delivery:** KL-0054-K  Shock Absorber Tool Kit,

<table>
<thead>
<tr>
<th>Part-No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0054-0010</td>
<td>Socket</td>
<td>1</td>
</tr>
<tr>
<td>KL-0054-0011</td>
<td>O-Ring Ø80 x 3.8 mm</td>
<td>1</td>
</tr>
<tr>
<td>KL-0054-0021</td>
<td>Tool insert, 90°, (empty)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0050-0022</td>
<td>Screw M6 x 18 Din 7984</td>
<td>4</td>
</tr>
<tr>
<td>KL-0050-0023</td>
<td>Allen Key 4 mm</td>
<td>1</td>
</tr>
<tr>
<td>KL-0050-0025</td>
<td>Round sliding block</td>
<td>4</td>
</tr>
<tr>
<td>KL-0050-0027</td>
<td>Flat sliding block</td>
<td>4</td>
</tr>
<tr>
<td>KL-0054-0035</td>
<td>Tool insert for VW-Audi, (empty)</td>
<td>1</td>
</tr>
<tr>
<td>KL-0050-0022</td>
<td>Screw M6 x 18 Din 7984</td>
<td>4</td>
</tr>
<tr>
<td>KL-0050-0023</td>
<td>Allen Key 4 mm</td>
<td>1</td>
</tr>
<tr>
<td>KL-0050-0025</td>
<td>Round sliding block</td>
<td>4</td>
</tr>
<tr>
<td>KL-0050-0027</td>
<td>Flat sliding block</td>
<td>4</td>
</tr>
<tr>
<td>KL-0054-0010</td>
<td>Socket with pins, 10.5 mm</td>
<td>1</td>
</tr>
<tr>
<td>KL-0050-0012</td>
<td>Socket with pins, 12.5 mm</td>
<td>1</td>
</tr>
<tr>
<td>KL-0050-0013</td>
<td>Socket with pins, 14.5 mm</td>
<td>1</td>
</tr>
<tr>
<td>KL-0054-0090</td>
<td>Plastic storage case</td>
<td>1</td>
</tr>
</tbody>
</table>

**Note:** This Tool Set replaces KL-0050, KL-0051 and KL-0052.

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**Spreader Bar for Suspension Strut Mounting**

*Suitable for Ford, VW-Audi, Peugeot, Renault, Citroën, Japanese vehicles, etc.*

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

**Technical Data:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>205 mm</td>
</tr>
<tr>
<td>Width</td>
<td>5 mm</td>
</tr>
<tr>
<td>Widening dimension</td>
<td>7 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>65 g</td>
</tr>
</tbody>
</table>

---

**Spreader Socket, Size (waf) 5 mm**

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

**Technical Data:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>½”</td>
</tr>
<tr>
<td>Length</td>
<td>60 mm</td>
</tr>
<tr>
<td>Width</td>
<td>5 mm</td>
</tr>
<tr>
<td>Widening dimension</td>
<td>7 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>75 g</td>
</tr>
</tbody>
</table>

---

**Spreader Socket, Size (waf) 5.5 mm**

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

**Technical Data:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>½”</td>
</tr>
<tr>
<td>Length</td>
<td>50 mm</td>
</tr>
<tr>
<td>Width</td>
<td>5.5 mm</td>
</tr>
<tr>
<td>Widening dimension</td>
<td>8.2 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>75 g</td>
</tr>
</tbody>
</table>
KL-0168-90 K Camber Gauge (1 unit in a storage case)

The KL-0168-90 K Camber Gauge with magnetic foot allows the existing camber angle to be memorised before the suspension strut is removed. After re-installation of the strut, the camber can be set to the previous setting without time-consuming geometry check.

Technical Data:

| Weight | 500 g |

KL-0104-21-1 A Spreader Tool with Wedge No.1 and No.2 (Patented)

Suitable for strut clamping bores, for example, on VW Golf IV, Golf V, Passat; Audi; BMW; Citroën; Ford; Mercedes Vito, V-Class; Seat; Škoda; Renault; Peugeot; Japanese vehicles etc.

The spreader tool KL-0104-21-1 A is designed to open out clamping bores. This procedure is essential for the professional removal of tight-fitting or stuck spring/shock absorber units. As a result, shock absorber units can easily be removed and installed without the risk of damaging (cast iron or aluminium) steering knuckle housings.

This tool, thanks to its variably adjustable spreading head, is especially suitable for all those vehicles whose fastening slot is out of centre such as VW-Audi, Ford etc. Due to its dimensions and special shape, the replaceable wedge of the spreading head is particularly suitable for aluminium steering knuckles. The wedge is provided with a limit stop to avoid excessive knuckle widening. Other wedges are available as accessories (e.g. for steel knuckles).

Fully floating bolts prevent the tool from jamming during knuckle widening.

Technical Data:

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

Scope of Delivery: KL-0104-21-1 A Spreader Tool

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0104-21 A</td>
<td>Spreader tool (adjustable) with wedge No.1</td>
<td>1</td>
</tr>
<tr>
<td>KL-0104-2122</td>
<td>Pressure screw with wedge No.2</td>
<td>1</td>
</tr>
</tbody>
</table>

KL-0104-2111 Bolt, Ø10 mm

Suitable for M12 tapped holes, e.g. for VW T5.

Required for steering knuckle bores with internal thread.

KL-0104-20 Spreader Tool (Universal), with Wedge No.1 (Patented)

Suitable for VW-Audi; BMW; Citroën; Ford; Mercedes Vito, V-Class; Seat; Škoda; Renault; Peugeot; Japanese vehicles, etc.

The spreader tool KL-0104-20 is designed to open out clamping bores. This procedure is essential for the professional removal of tight-fitting or stuck spring/shock absorber units. As a result, shock absorber units can easily be removed and installed without the risk of damaging (cast iron or aluminium) steering knuckle housings. Due to its dimensions and special shape, the replaceable wedge of the spreading head is particularly suitable for aluminium steering knuckles. The wedge is provided with a limit stop to avoid excessive knuckle widening. Other wedges are available as accessories (e.g. for steel knuckles).

Fully floating bolts prevent the tool from jamming during knuckle widening.

Technical Data:

| Clamping bore width (max.): | 60 mm |
| Widening dimension (wedge No.1): a.: 5.8 mm; b.: 8.5 mm; c.: 4.5 mm |
| Weight: | 900 g |
Changing Springs and Shock Absorbers

Strut Holder and Adjustment Tool (Pat.) KL-0255

**Suitable for VW-Audi vehicles from 1990 onwards.**

This strut holder and adjustment tool enables quick, easy and correct adjustment and repairs of struts to be carried out on the workbench. Due to the special design, strut tubes can be clamped vertically and damper eye bolts can be clamped horizontally. The built-in protractor allows for the accurate positioning of lower damper eye bolts relative to upper damper eye bolts / attachments.

**Advantages:**
- Suspension / damper struts are clamped professionally and safely during repair.
- Possibility to clamp suspension / damper struts vertically as well as horizontally thanks to interchangeable jaws.
- The graduated protractor ensures compatibility and universal use also with future suspension systems.
- The tool can be mounted on a bench or in a vise.

**Note for VW and Audi vehicles:**
The front spring/shock absorber struts on VW-Audi vehicles need to be pre-adjusted on the workbench, so that upon installation, the upper mounting point (the spring plate) and the lower shock absorber strut mounting (fork/shock absorber lug) are correctly aligned with one another. Unless this work is undertaken first, the shock absorber strut cannot be installed, as the fastening points between the shock absorber strut and the body/axle beam will not be aligned. If the shock absorber strut mounting is forced into the correct position, the O-rings for level control will be damaged and the shock absorber strut will be distorted, which will lead to drumming noises and incorrect road performance of the vehicle.

**Attention:**
For VW-Audi, only use the Spring Compressor KL-0015 and protective inserts.

**Setting Data:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Setting Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audi 80/90 rear axle</td>
<td>21° ± 2°</td>
</tr>
<tr>
<td>Audi 100 Quattro from ‘91 onwards rear axle</td>
<td>51° ± 2°</td>
</tr>
<tr>
<td>Audi 100 (Front-wheel drive) 1991 onwards rear axle</td>
<td>45° ± 2°</td>
</tr>
<tr>
<td>Audi A4 (B5) front axle (with KL-0255-10)</td>
<td>11° ± 2°</td>
</tr>
<tr>
<td>Audi A4 (B5) rear axle (with KL-0255-10)</td>
<td>50° ± 2°</td>
</tr>
<tr>
<td>Audi A6 from 1997 onwards</td>
<td>11° ± 2°</td>
</tr>
<tr>
<td>VW Passat from 1996 onwards</td>
<td>11° ± 2°</td>
</tr>
</tbody>
</table>

**Weight:** 26 kg

**Adjustment plate for Audi A4** KL-0255-10

Adjustment plate for Audi A4 (B5 from 1996 - 20001), front and rear axle.

**Upgrade Kit for Audi A6 (German Utility Model)** KL-0255-11

(for use with strut vise and adjusting tool KL-0255)

Suitable for Audi A6 (04/04 onwards) front axle.

The upgrade kit is used with the strut vise and adjusting tool KL-0255, thus enabling quick and professional adjustment of the spring plate relative to the shock absorber strut fixing eye. With the adjusting gauge, the precise amount of offset between the lower shock absorber strut mounting and the upper spring plate can be adjusted correctly.

**Upgrade Kit, Audi A4/A5** KL-0255-12

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

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

**Accessories:**

<table>
<thead>
<tr>
<th>KL-0255-10</th>
<th>KL-0255-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL-0255-12</td>
<td></td>
</tr>
</tbody>
</table>

*Note:*

- Setting data may vary depending on specific vehicle models and configurations.
- Always refer to the latest official technical documents for precise instructions.
- KLANN Spezial Werkzeugbau GmbH reserves the right to make changes to tools and equipment without prior notice.