

KL-5901

Stationary spring compressor, 22,500 Newton



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1. READ AND UNDERSTAND THE SAFETY INSTRUCTIONS



This operating manual is part of **the stationary spring compressor and** serves to familiarize you with this special tool. Read and understand this operating manual before using the special tool and follow all instructions, regulations, and notes listed therein for safe use. Keep the operating manual in a safe place so that you or subsequent users can access it at any time. Be aware that misuse of the special tool can, in the worst case, lead to **DEATH** or **SERIOUS INJURY**! Stop work immediately if you are unsure about how to use the special tool and, if necessary, contact **GEDORE Automotive**.

1.1 Target group

These operating instructions are intended **exclusively** for trained specialists with comprehensive expertise in the repair of motor vehicles.

- ▶ The special tool **may only** be used in automotive workshops by trained specialists who have the necessary expertise in handling special automotive tools and are familiar with the applicable regulations on occupational safety, accident prevention, and environmental protection.
- ▶ The special tool **must never** be used by unauthorized, inexperienced, underage, or physically, sensory, or mentally impaired persons, **nor** by persons who are tired or under the influence of medication, alcohol, drugs, or similar intoxicating substances.

1.2 Obligations of the owner

According to the German Industrial Safety Regulation (*BetrSichV*), employers are obliged to provide their employees with safe work equipment! The special tools from GEDORE Automotive comply with the recognized rules of technology and relevant safety regulations at the time of release.

- ▶ **The owner** of the special tool **must ensure that only** trained specialists in automotive workshops use the special tool!
- ▶ **The owner** of the special tool **must ensure** that the user has the relevant instructions available and has read and understood them in full **before** using the special tool!
- ▶ **The owner** of the special tool **must ensure** that the user has the necessary expertise in handling special automotive tools, is familiar with the applicable regulations on occupational safety, accident prevention, and environmental protection, and has the necessary personal protective equipment at their disposal!

1.3 Intended use

The stationary spring compressor ...

- ... **may only** be used on McPherson-struts to tension the spring via the upper spring seat!
- ... **may only** be **loaded** up to a **maximum load of 22,500 newtons**!
- ... **may only** be driven via the handwheel up to a **maximum torque of 130 N·m (96 ft-lb)**!
- ... **may only** be used manually with muscle power using a manual drive!
- ... **may only** be used with **GEDORE Automotive** original spare parts and accessories!
- ... **may only** be used in the manner described in this operating manual!
- ⚠ Any other use may result in **DEATH** or **SERIOUS INJURY** !

1.4 Reasonably foreseeable misuse

The stationary spring compressor ...

- ... **must never** be used to tension other springs or struts or in any other way than intended!
- ... **must never** be used for tensioning springs directly over the spring coils!
- ... **must never** be used with an impact wrench, a machine drive, or any other drive other than that intended for its intended purpose!
- ... **must never** be used for serial processing involving many repetitive clamping operations!
- ... **must never** be used with a bypassed, modified, or removed safety device!
- ... **may never** be arbitrarily changed, modified, or misused!
- ⚠ **Always** use the special tool as intended. Any other use may result in **DEATH** or **SERIOUS INJURY** !

1.5 Personal protective equipment

For your safety when using the special tool, wear personal protective equipment! The special tool can cause mechanical hazards such as crushing, cutting, and impact injuries.



Wear **EYE PROTECTION** (e.g., DIN EN 166, OSHA 29 CFR 1910.133, ANSI Z87) when using the special tool to protect against flying parts or particles!

►When using the special tool, flying parts or particles can **cause SERIOUS INJURY to your eyes!**



Wear **PROTECTIVE GLOVES** (e.g., DIN EN 388, OSHA 29 CFR 1910.138, ANSI 105) when using the special tool to protect against sharp edges and crushing between parts!

►When using the special tool, sharp edges and crushing between parts can **cause SERIOUS INJURY to your hands!**



Wear **SAFETY SHOES** (e.g., DIN EN ISO 20345, OSHA 29 CFR 1910.136, ANSI Z41) when using the special tool to protect against falling parts!

►When using the special tool, falling parts can **cause SERIOUS INJURY to your feet and toes!**

1.6 Labeling of warning notices

Warning notices indicate **potential hazards** which, if ignored, could in the worst case lead to **DEATH** or **SERIOUS INJURY** and must therefore be observed without fail. In this operating manual, warning notices are classified as follows for better differentiation and recognition:

Warning sign	Significance
WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in DEATH or SERIOUS INJURY !
CAUTION	Indicates a hazardous situation which, if not avoided, could result in MODERATE or MINOR INJURY !
ATTENTION	Indication of a situation which, if not avoided, may lead to damage to the tool or objects in its vicinity!
i	Reference to important information and useful tips.

1.7 Work environment

Only use the special tool in a safe working environment and **do not** expose it to extreme temperatures, direct sunlight, extreme humidity, or moisture!

- The workplace **must** be clean and tidy.
- The workplace **must** be sufficiently large and well lit.
- The workplace **must** have a stable and non-slip surface.
- The workplace **must** be secured against access by unauthorized persons.
- The workplace **must** have a room temperature between -10°C and +40°C.

1.8 Emissions

Molybdenum disulfide paste can drip when using the special tool and pose a hazard to the environment.

- Remove **excess** molybdenum disulfide paste **immediately**, e.g., with a cleaning cloth.
- In case of skin contact, **immediately** clean the affected area with grease dissolving soap and water.
- Always** dispose of hazardous substances such as molybdenum disulfide paste **in an environmentally friendly manner**.
- Safety data sheets *in accordance with Regulation (EC) No. 1907/2006* for molybdenum disulfide paste (**MOLYKOTE® G-N PLUS PASTE**) can be found on the manufacturer's website (**World Wide Web**) or, if necessary, **contact GEDORE Automotive**.

1.9 Basic safety, warning, and handling instructions

⚠ WARNING

⚠ CAUTION

ATTENTION

Failure to comply can lead to life-threatening situations, injuries, and damage!

When using the special tool, always observe the following safety, warning, and handling instructions and strictly adhere to all measures to avoid life-threatening situations, injuries, and property damage caused by hazards, misuse, abuse, or improper handling.

- ▶ **Use only by qualified personnel:** The special tool may only be used in automotive workshops by trained specialists who have the necessary expertise and are familiar with the applicable regulations.
- ▶ **Do not use when tired or intoxicated:** The special tool must never be used by unauthorized or restricted persons, or by persons who are tired or under the influence of intoxicating substances.
- ▶ **Read and understand the instructions:** The special tool may only be used safely in accordance with these operating instructions. All instructions, regulations, and information contained herein must be strictly observed. For accessories, always follow the corresponding instructions as well.
- ▶ **Comply with applicable safety regulations:** The special tool must always be used in accordance with applicable regulations on occupational safety, accident prevention, and environmental protection.
- ▶ **Wear personal protective equipment:** When using the special tool, always wear the necessary protective equipment, such as safety goggles, protective gloves, and safety shoes.
- ▶ **Only use original parts:** The special tool may only be used with original replacement parts and accessories from GEDORE Automotive.
- ▶ **Check before use:** Before use, the special tool must be checked for damage, loose parts, unauthorized modifications, and suitability for the intended application.
- ▶ **Regular safety checks:** For safety reasons, the special tool should undergo a safety check every 24 months by authorized GEDORE Automotive specialists.
- ▶ **Do not use if damaged or defective:** The special tool must not be used if it is damaged or otherwise defective and must be checked and repaired before its next use.
- ▶ **Repairs or maintenance only by qualified personnel:** For safety reasons, the special tool may only be repaired or maintained by specially trained personnel from GEDORE Automotive.
- ▶ **Stop work immediately if handling is unsafe:** The special tool must not be used if handling is unsafe; if necessary, refer to the instructions or seek assistance from GEDORE Automotive.
- ▶ **Regular cleaning and lubrication:** The special tool, especially the moving parts and the spindle, must be checked regularly for contamination, cleaned if necessary, and treated with approved lubricants.
- ▶ **Do not use power tools:** The special tool must never be used with power tools, but only in accordance with its intended use with a manual drive using muscle power.
- ▶ **Follow vehicle-specific application procedures:** Special tools must always be used in accordance with the vehicle manufacturer's instructions and specifications when performing vehicle-specific application procedures.
- ▶ **Secure the immediate working environment:** The special tool may only be used if there are no unauthorized persons in the immediate working environment.
- ▶ **Ensure stability:** Before use, always check that the special tool is stable and secure.
- ▶ **Never exceed the maximum load:** The special tool must never be overloaded or operated with a load higher than the maximum permissible load.
- ▶ **Never use for serial processing:** The special tool must never be used for serial processing, especially not for processes that are repeated quickly and carried out at short intervals.
- ▶ **Never leave unattended under load:** The special tool must never be left unattended, especially when under load.
- ▶ **Avoid damaging forces:** The special tool must never be subjected to impacts, clamping, or other damaging forces, especially when under load.
- ▶ **Cleaning after use:** After use, the special tool may only be cleaned with a clean, dry cleaning cloth. Immersion in water, solvents, or other cleaning fluids is strictly prohibited.
- ▶ **Environmentally sound disposal:** Special tools and packaging materials must always be disposed of in an environmentally sound manner in accordance with legal requirements. If in doubt, contact the local authorities.
- ▶ **Disclaimer of liability, warranty, and guarantee:** The special tool must always be used in accordance with the safety regulations. In the event of non-compliance or misuse, the user assumes sole responsibility, and GEDORE-Automotive excludes any liability, warranty, or guarantee claims.
- ▶ **Disclaimer regarding documentation:** The special tool and its use are described in detail in these instructions; however, technical changes, errors, omissions, inaccuracies, mistakes, and damage or consequences resulting from incorrect use or misuse can never be ruled out.

1.10 Maintenance

Perform maintenance on the special tool regularly and only when it is not under load! Inadequate or improper maintenance can cause damage to the special tool and result in life-threatening situations, serious injuries, and property damage during use.

Before each use:

- **Before each use**, carefully check the special tool for damage, loose parts, or unauthorized modifications, and in particular check that screw connections are tight.
- **Before each use**, check the moving parts and spindles of the special tool to ensure they move freely and are free of contamination; if necessary, clean them and then lubricate them exclusively with molybdenum disulphide paste, such as **MOLYKOTE® G-N PLUS Paste** or an equivalent product.

Recommended every 24 months:

- Have the special tool **professionally** inspected **every 24 months** by authorized GEDORE Automotive personnel.

1.11 Troubleshooting

Only perform troubleshooting on the special tool when it is not under load!

Problem: Adjustment mechanisms on special tools are difficult to operate.

Cause: Parts of the adjustment mechanisms are dirty, insufficiently lubricated, or have been treated with an unsuitable lubricant.

Action: Clean the adjustment mechanisms according to the instructions in **section 8**, check them for damage, and treat them exclusively with approved lubricants.

Problem: Drive loose on special tool, no longer providing traction.

Cause: Safety pin on the drive sheared off, e.g. due to overload or misuse.

Action: After clarifying the cause with GEDORE-Service via service@gedorettools.com, replace the safety pin according to the instructions in **chapter 7**.

1.12 Care/storage

ATTENTION

Improper care and storage can cause damage to special tools.

- **Never** immerse the special tool in water, solvents, or other cleaning fluids.
- Clean the special tool **exclusively** with a dry and clean cleaning cloth.
- Protect the special tool **only** with special acid-free oils or greases for tool maintenance.
- **Be sure to** store the special tool in a dry and clean place together with the accompanying operating instructions.

1.13 Repair of the tool

⚠ WARNING

Improper repair of the special tool can result in **DEATH** or **SERIOUS INJURY**.

- If damage, loose parts, or unauthorized modifications are found on the special tool, it must no longer be used for safety reasons!
- Repairs may only be carried out by specially trained personnel at **GEDORE Automotive**!
- **Only** use original spare parts and accessories from **GEDORE Automotive** for the special tool!

If necessary, please contact us at **GEDORE Automotive** for professional inspection and repair of the special tool.

1.14 Environmentally friendly disposal

Dispose of the special tool and packaging material in an environmentally friendly manner in accordance with legal requirements. If necessary, check with your local authorities for environmentally friendly disposal options.

2. PRODUCT DESCRIPTION

2.1 Stationary spring compressor - KL-5901

Universally compatible with almost all McPherson struts on the market.

For example, in suspension struts with right- or left-hand coils, conical coils, eccentric coils, extremely strong coils, extremely long coils, coils with a low number of turns, coils with very high or varying coil pitches, as well as in suspension struts with tension stop damping, electronic control, and other sensor technology.

The stationary spring compressor enables professional and safe tensioning of McPherson struts for safe removal and installation of the suspension spring.

The unique design with variable spring seat mounting and adjustable strut mounting allows the suspension spring to be tensioned without directly interfering with the spring itself. This means that the spring shape and spring rate are irrelevant. Throughout the entire tensioning process, the spring is held in place by the shock absorber and the upper dome bearing, just as it would be in the vehicle. This prevents uncontrolled lateral forces from acting on the spring and ensures that the entire assembly (shock absorber, spring, dome bearing) remains in a fixed position during the tensioning process.

In addition, the spring tensioner has been tested by an independent body up to four times the maximum permissible load to ensure maximum user safety.

2.2 Technical Specifications

Maximum load: 22,500 N

Maximum drive torque: 130 N·m (96 ft-lb)

Permissible drive: Only with handwheel!

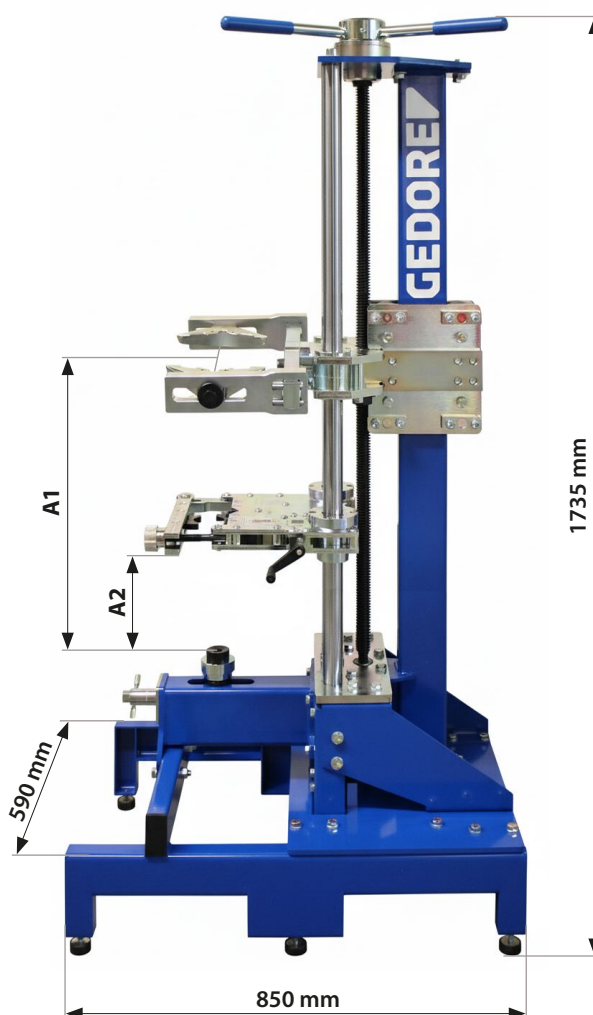
Permissible spring plate diameter: 125 - 220 mm

Working stroke (A1) clamping unit: 120 - 1000 mm

Working stroke (A2) Holding device: 20 - 900 mm

Total weight: 230 kg

Dimensions:

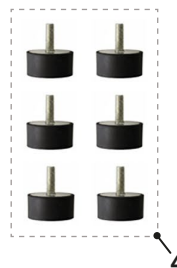
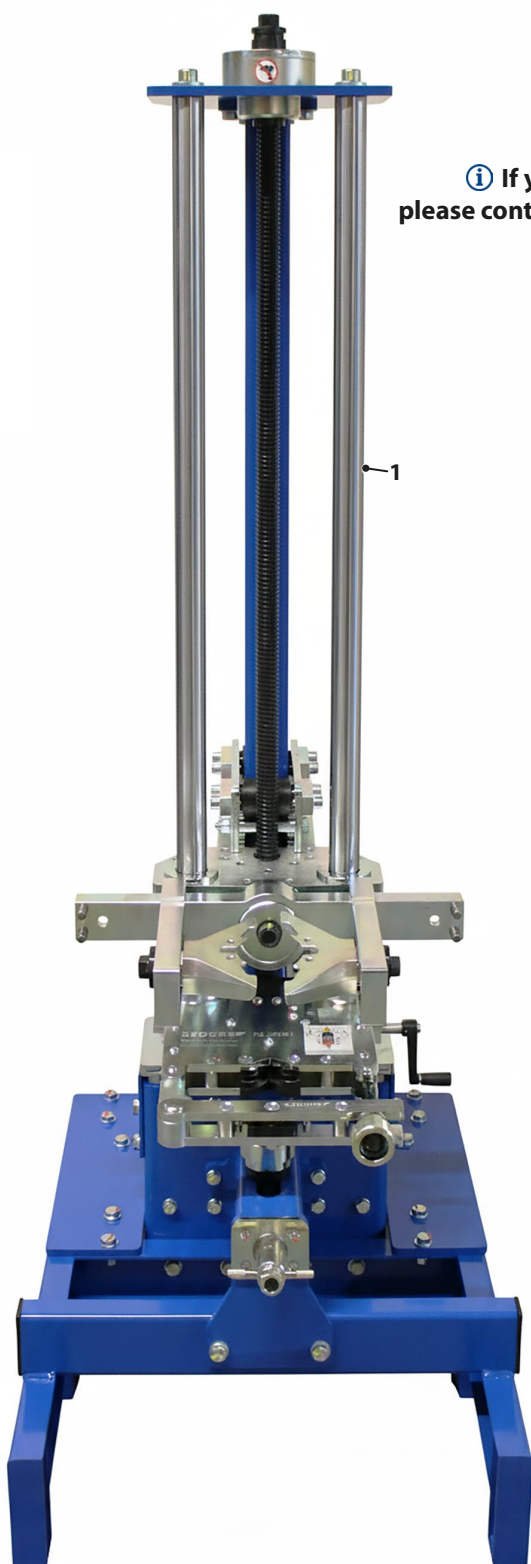


2.3 Scope of delivery

⚠ The scope of delivery must be checked for completeness before use!

ℹ A helpful overview of components can be found in **Chapter 2.4**, and a detailed overview of individual parts can be found in **Chapter 9**.

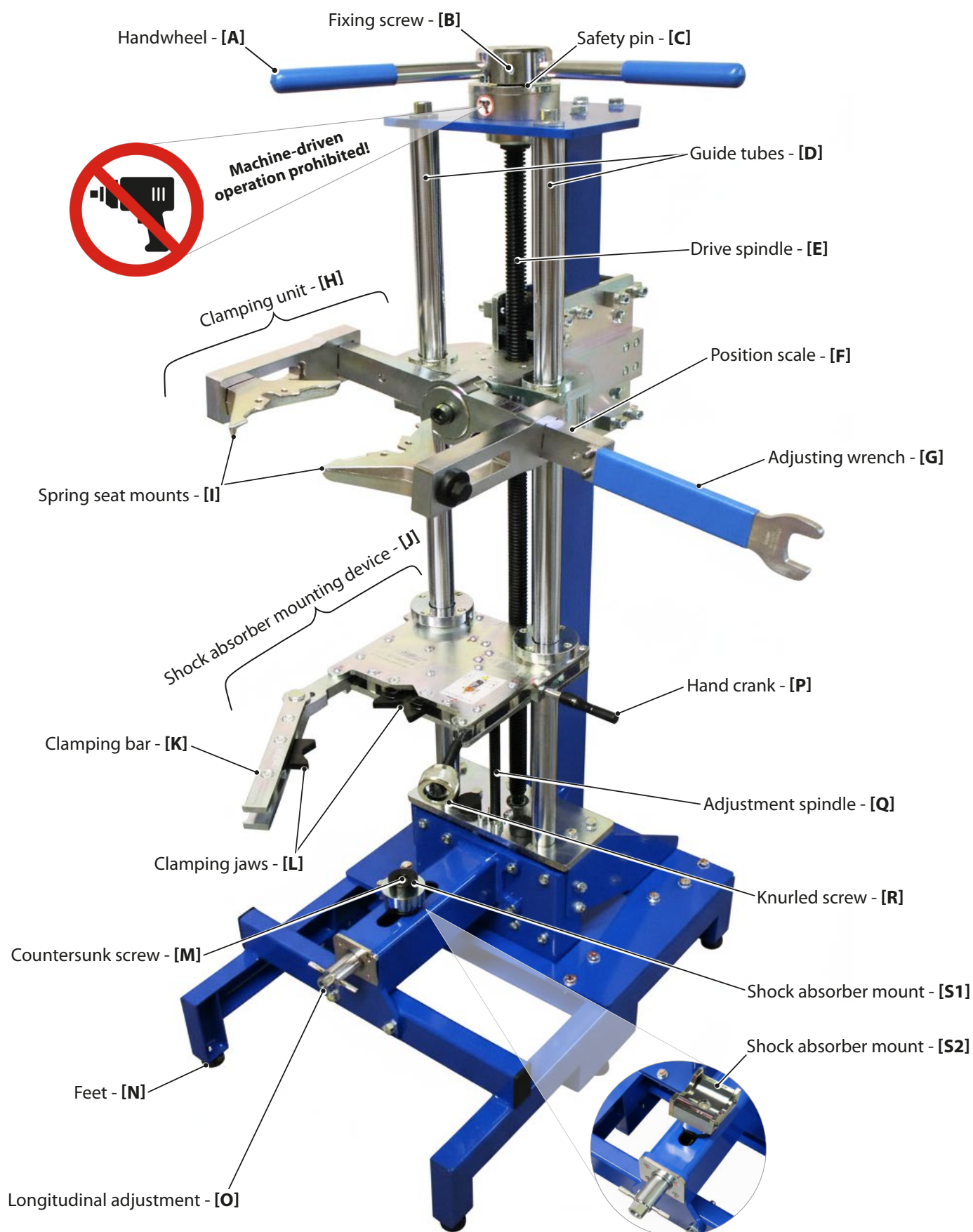
ℹ If you have any questions,
please contact: service@gedoretools.com



Item	Description
1	Spring tensioner basic unit
2	Handwheel
3	Adjusting wrench
4	Rubber feet (6 pieces)
5	Shock absorber mount (Toyota Tundra)

2.4 Component overview

 This overview shows the main components of the spring compressor and their designations.



3. INITIAL STARTUP

 This chapter describes the necessary preparations for initial commissioning of the spring compressor.

3.1 Mounting attachments on the spring compressor

 1: Install the handwheel and feet in the correct position...

WARNING

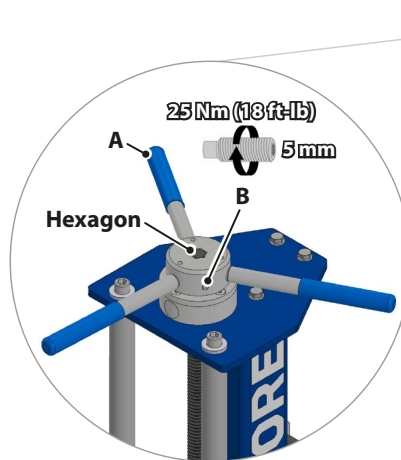
Using a power tool may cause the spring compressor to break and the spring or other parts to be ejected uncontrollably. This can result in **DEATH** or **SERIOUS INJURY**.

► The spring compressor must never be used with an impact wrench or other power tool!

► The spring tensioner may only be operated manually using muscle power via the handwheel [A]!

1. Place the handwheel [A] included in the scope of delivery on top of the hexagon on the spring compressor in the correct position and secure it with the fixing screw [B].

Tighten the fixing screw [B] with a 5 mm hexagon socket wrench to 25 N·m (18 ft-lb).



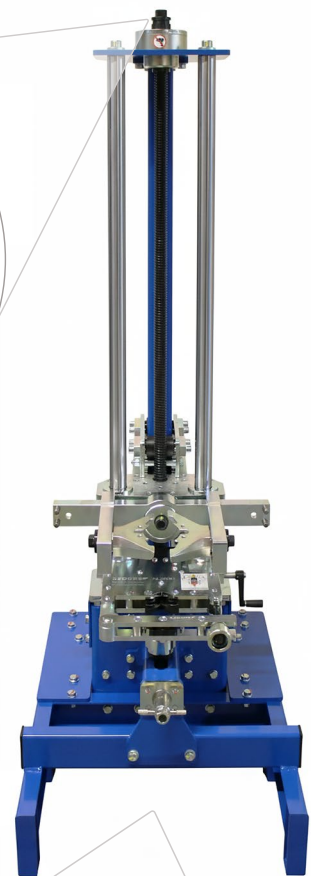
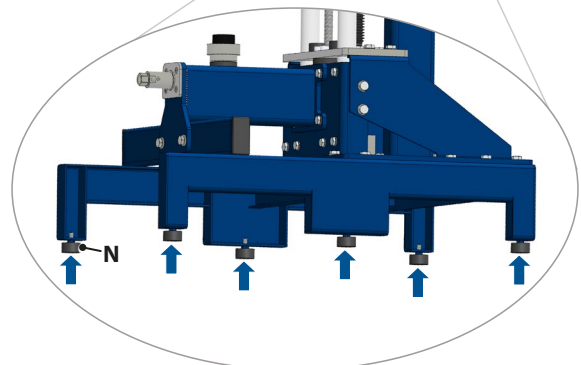
WARNING

When installing the legs [N], the spring tensioner may fall or tip over. This can result in **DEATH** or **SERIOUS INJURY**.

► When installing the feet [N], lift the spring tensioner securely using suitable lifting equipment only, or tilt it very slightly to the side with the help of a second specialist, without exceeding the tipping point of the spring tensioner!

2. Screw the feet included in the scope of delivery [N] (6 pieces) completely into the threaded sockets provided at the bottom of the spring tensioner.

The spring tensioner can then be precisely and stably aligned and balanced at the installation site by turning the individual feet in or out.- [N]



4. PREPARATIONS

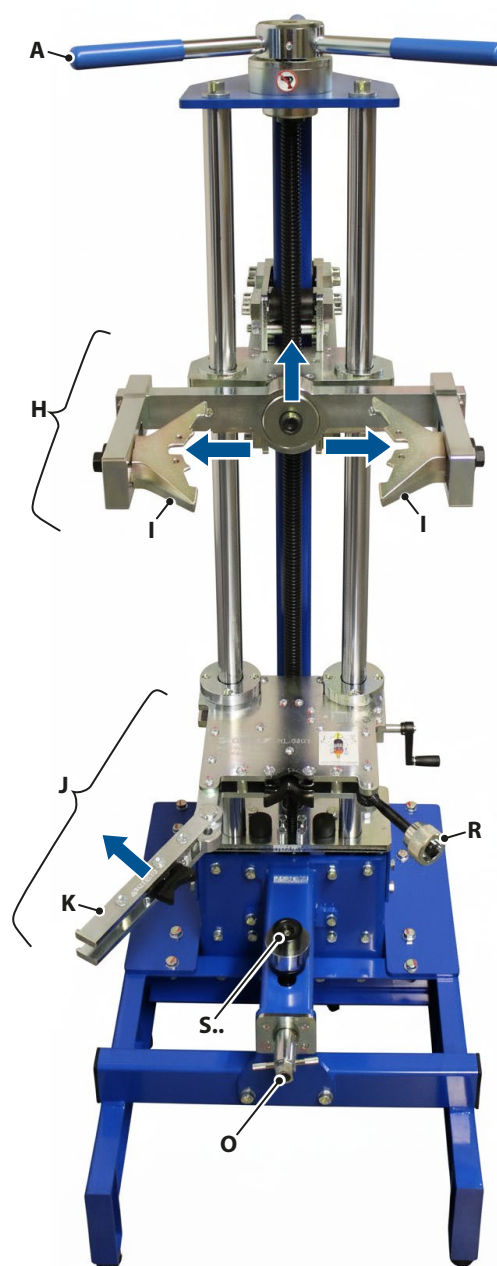
 This chapter describes the preparatory measures to be taken before using the spring compressor.

4.1 Prepare the spring compressor

2: Move the spring tensioner to its initial position...

 To make it easier to insert a shock absorber, it is helpful to always return the spring compressor to its home position first.

1. Move the clamping unit **[H]** into the upper area of the spring tensioner by turning the handwheel **[A]**.
2. The two spring plate mounts **[I]** as far as they will to the right and left.
3. The shock absorber mount **[S..]** Turn the longitudinal adjustment **[O]** to the middle position.
4. Open the strut mounting bracket **[J]** by **loosening** the knurled screw **[R]** and **folding open** the clamping bar **[K]**.



5. APPLICATION EXAMPLE

① This chapter uses an application example to describe the safe use of the spring compressor for compressing and decompressing a coil spring on a McPherson strut during removal and installation.

⚠ It is essential to note that vehicle-specific specifications and application procedures must always be taken from the vehicle manufacturer's repair manual!

5.1 Removing spring from strut

📷 3: Install the corresponding shock absorber mount/support in the correct position depending on the suspension strut...

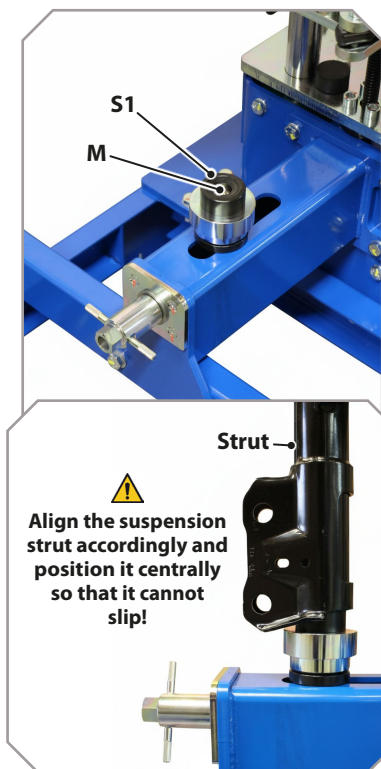
⚠ WARNING

Using an incorrect shock absorber-mount/support can cause the suspension strut to slip off the spring compressor and the spring to be ejected uncontrollably. This can result in DEATH or SERIOUS INJURY.

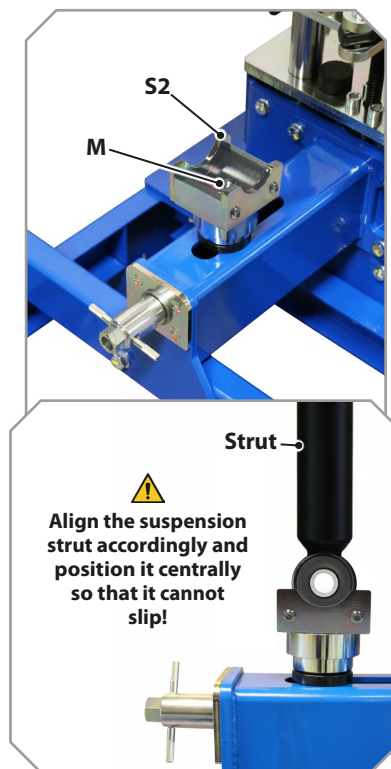
► Depending on the suspension strut, the shock absorber mount/support specified by the vehicle manufacturer must be installed in the correct position on the spring compressor in order to then position or attach the suspension strut accordingly!

► For other strut designs-, use the optionally available universal shock absorber mount!

Shock absorber mount [S1]



Shock absorber mount [S2]



Universal shock absorber mount



1. Depending on the suspension strut, attach the shock absorber- support [S1] or shock absorber-mount [S2] specified by the vehicle manufacturer in the correct position on the spring compressor using the countersunk screw [M]. **Tighten** the countersunk screw [M] with a **5 mm** Allen key to **10 N·m (7 ft-lb)**.

① The next step when installing the suspension strut is to position and secure it correctly on the shock absorber-mount/support!

① For other shock absorber designs-, the "Universal shock absorber mount" (KL-5501-1431 A) is available as an optional accessory. For more information, see **chapter 6** or www.gedore-automotive.com.

4: Insert the suspension strut into the spring compressor in the correct position and secure it...

⚠ WARNING

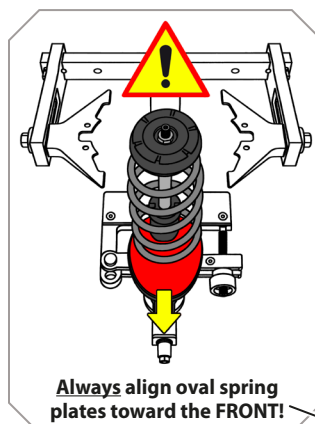
Incorrect fastening can cause the spring strut to slip off the spring compressor and the spring to be ejected in an uncontrolled manner. This can result in DEATH or SERIOUS INJURY.

- ▶ The suspension strut must be fixed straight and securely in position in the spring compressor!
- ▶ Depending on the suspension strut, it must be correctly and securely positioned or fastened on the shock absorber mount/support-specified by the vehicle manufacturer, as shown at **3**!
- ▶ When using the universal shock absorber mount (KL-5501-1431 A), always align the stop toward the REAR!
- ▶ Shock absorbers with oval lower spring plates must always be aligned towards the FRONT!

⚠ ATTENTION

The suspension strut may be damaged when tightening the knurled screw [R].

- ▶ Tighten the knurled screw [R] only slightly by hand!



Clamping jaws [L] can be positioned in three positions.

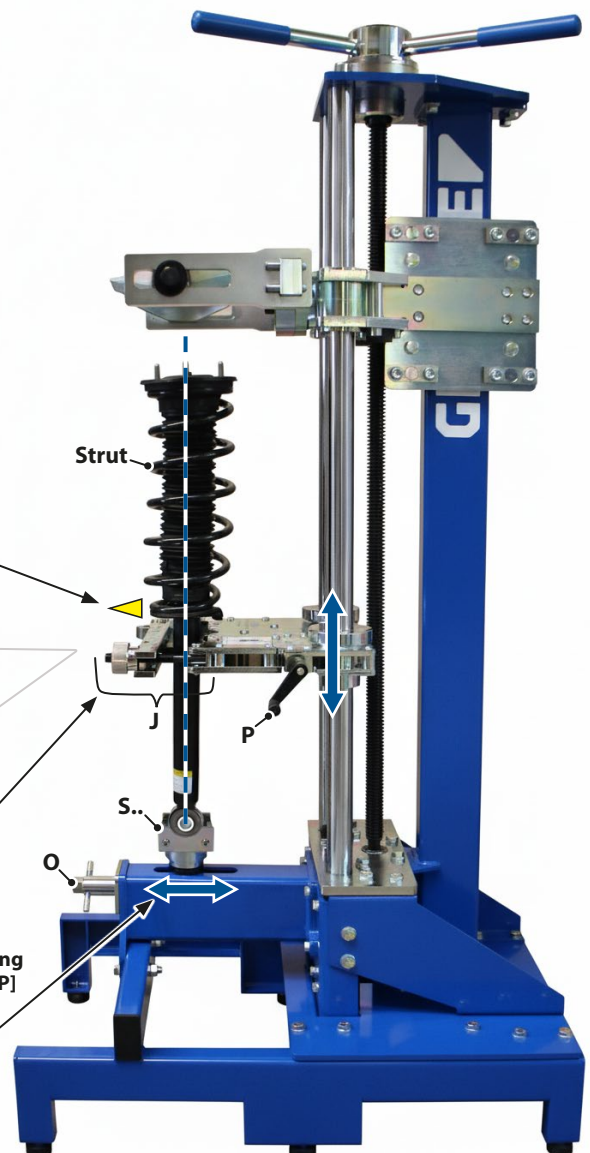
The tension bar [K] must run approximately parallel.

Clamping bar [K] can be positioned in two positions.

Knurled screw [R] tighten only slightly by hand!

Adjust the shock absorber mounting bracket [J] using the hand crank [P] to match the height of the shock absorber.

Shock absorber mount [S..] Adjust the longitudinal adjustment [O] so that the suspension strut is straight.



2. Adjust the suspension strut-mounting bracket [J] using the hand crank [P] to match the height of the suspension strut and correctly position or attach the suspension strut to the corresponding shock absorber-mount/support [S..] as shown in **3**.

Then insert the suspension strut straight into the suspension strut holder [J], close the clamping bar [K], and lightly tighten the knurled screw [R] by hand.

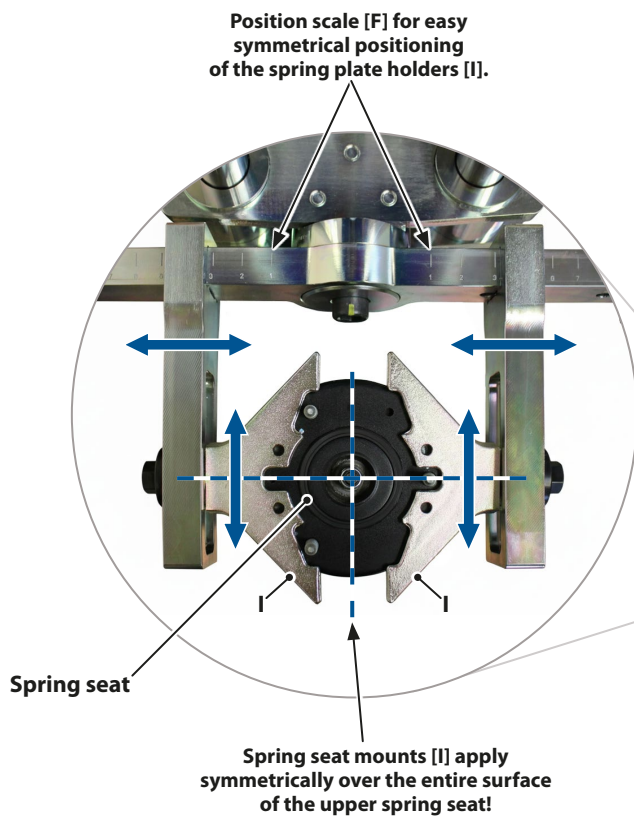
Depending on the diameter of the suspension strut $\varnothing$, adjust the clamping jaws [L] and clamping bar [K] so that the closed clamping bar [K] runs almost parallel to the spring compressor.

5: Position the spring seat mounts correctly on the upper spring seat...

⚠ WARNING

Due to incorrect installation, the spring plate mounts [I] on the upper spring plate may slip, causing the spring and other parts to be ejected in an uncontrolled manner. This can result in DEATH or SERIOUS INJURY.

- ▶ The spring plate mounts [I] must never be attached directly to the spring!
- ▶ Spring seat mounts [I] may only be attached to the upper spring seat!
- ▶ The spring plate mounts [I] must be positioned symmetrically on the upper spring plate!
- ▶ The spring plate mounts [I] must rest securely on the entire surface of the upper spring plate to prevent slipping!
- ▶ For unusual spring plate designs, use an optional spring plate adapter!



3. Turn the handwheel [A] clockwise until the spring plate mounts [I] are directly above the upper spring plates.
Align the spring plate mounts [I] as shown, symmetrically across the entire surface of the upper spring plate.

i For unusual spring plate-designs, various "Spring plate adapters" are available as optional accessories. For more information, see chapter 6 or www.gedore-automotive.com.

6: Tighten the spring until the shock absorber piston rod nut is tension free...

⚠ WARNING

Very high forces are exerted when tensioning springs! Overloading or misuse can cause the spring tensioner to break, resulting in the spring strut, spring, and other parts being ejected in an uncontrolled manner. This can lead to **DEATH** or **SERIOUS INJURY**.

► The maximum load of 22,500 newtons on the spring tensioner must never be exceeded!

► The handwheel [A] must never be operated with a drive torque exceeding 130 N·m (96 ft·lb) !

► The spring tensioner must never be operated with an impact wrench or other mechanical drive!

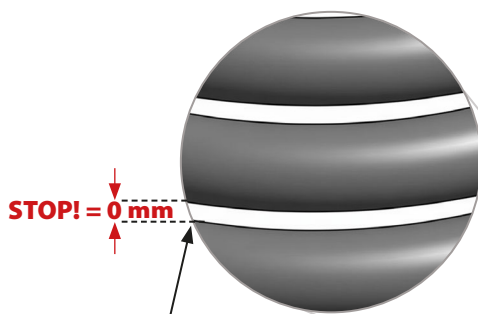
► The spring tensioner may only be operated manually using muscle power via the handwheel [A]!

► The tensioning process must be stopped before the spring coils touch each other!

► The spring may only be tensioned if the spring strut is securely fixed in the spring strut-holding device [J], the spring plates-holders [I] are securely resting on the upper spring plate, and the spring strut is securely resting on or attached to the shock absorber-support [S...]!



Max. 130 N·m (96 ft·lb)



The tensioning process must be completed before the spring coils touch each other!

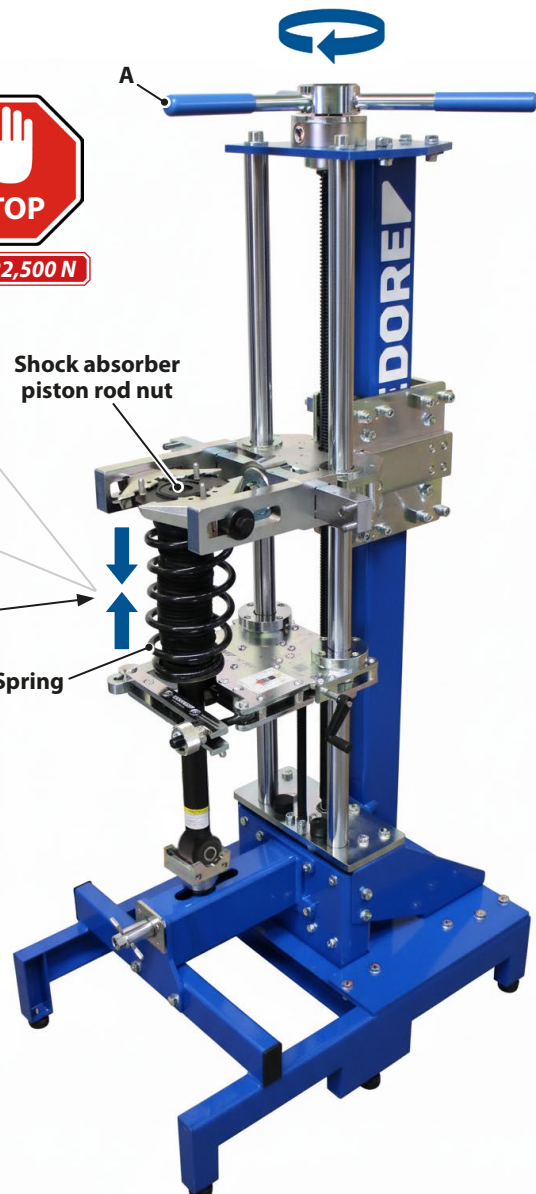


Max. 22,500 N

The spring only needs to be tensioned to the extent that the shock absorber piston rod nut can be loosened without tension in the next step!

Shock absorber piston rod nut

Spring



4. To tension the spring, turn the handwheel [A] clockwise in a controlled manner until the piston rod nut can be loosened without tension in the next step.

❗ In the case of suspension struts with rebound damping, the spring must be tensioned slightly further due to the retraction of the piston rod.

❗ If the handwheel [A] comes loose when operated, e.g. due to overload, a new safety pin [C] must be inserted in accordance with the instructions in **chapter 7**.

7: Loosen the shock absorber piston rod nut according to the manufacturer's specifications and release the spring in a controlled manner...

⚠ CAUTION

When loosening the shock absorber piston rod nut, the piston rod on the suspension strut may retract suddenly. This can cause **INJURY** to your hands.

- ▶ The shock absorber piston rod nut must be loosened in accordance with the vehicle manufacturer's specifications!
- ▶ The shock absorber piston rod nut may only be loosened when it is completely tension-free and no longer under tension from the spring!
- ▶ On suspension struts with rebound damping, the spring must be tensioned slightly further due to the retraction so that the shock absorber piston rod nut can be loosened without tension!

5. Loosen and remove the shock absorber piston rod nut on the suspension strut using a suitable tool in accordance with the vehicle manufacturer's specifications.

6. To release the spring, turn the handwheel **[A]** counter-clockwise in a controlled manner until the spring and other parts can be removed safely and without tension.

Shock absorber piston rod nut

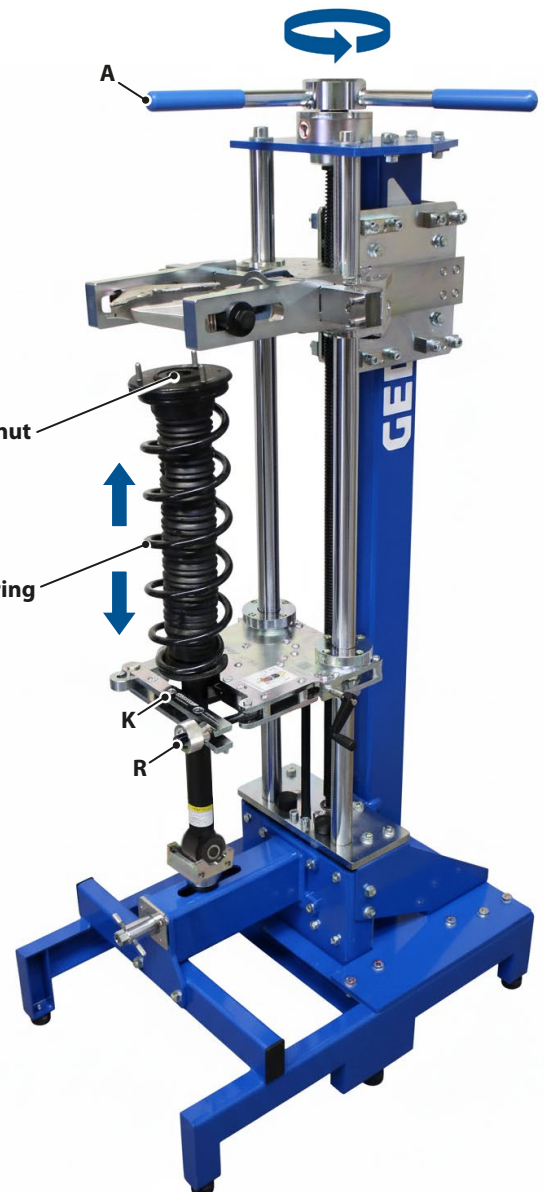
Spring

⚠ CAUTION

When removing the suspension strut, the spring, spring seat, or other parts may fall. This can cause **INJURIES** to the legs and feet.

- ▶ Before removing the shock absorber, first remove the spring and other loose parts!
- ▶ Personal protective equipment, such as safety shoes, must always be worn at work!

7. To remove the shock absorber, loosen the knurled screw **[R]** and **open** the clamping bar **[K]**.



5.2 Installing spring on strut

8: Insert the suspension strut into the spring compressor in the correct position and secure it...

⚠ WARNING

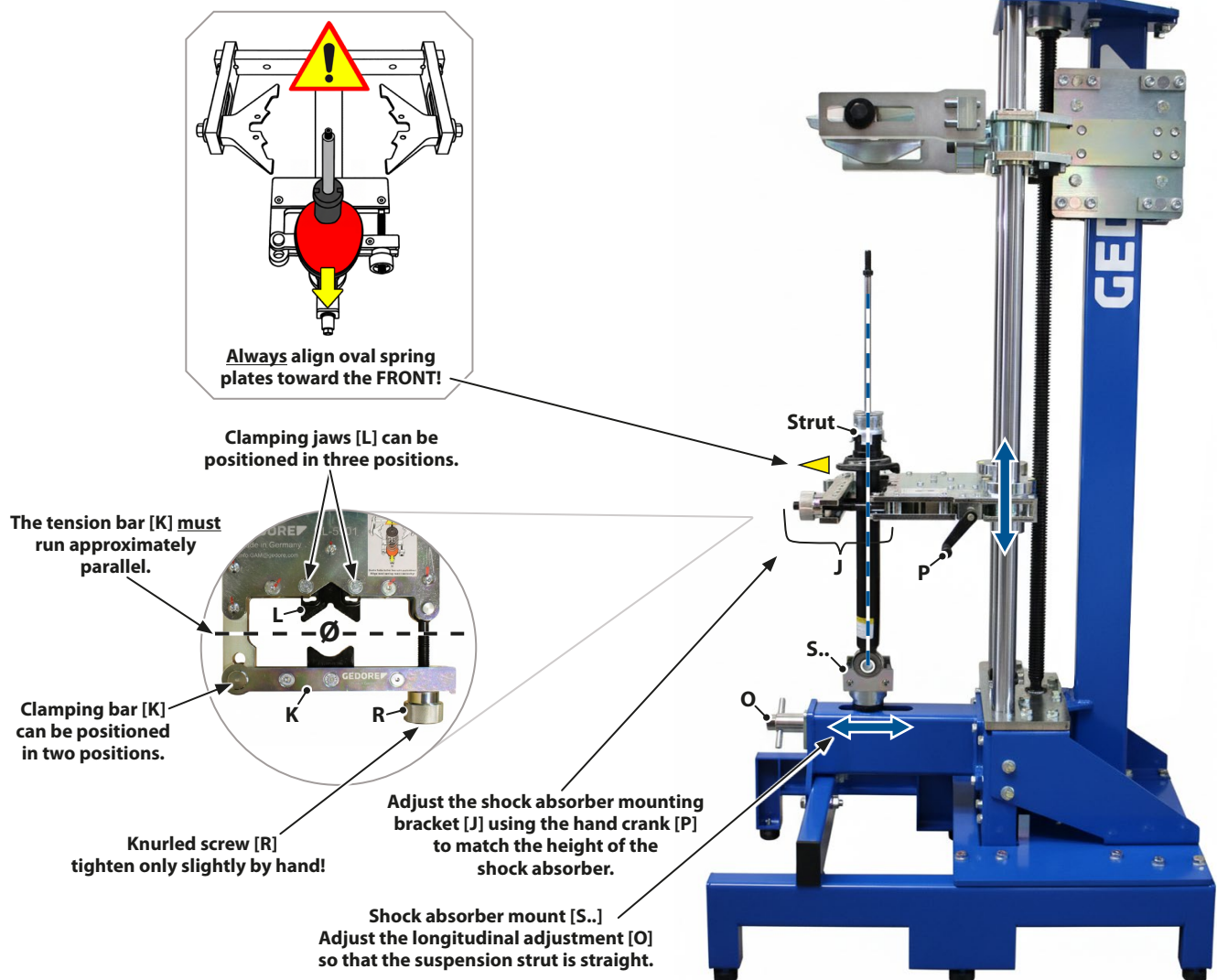
Incorrect fastening can cause the spring strut to slip off the spring compressor and the spring to be ejected in an uncontrolled manner. This can result in **DEATH** or **SERIOUS INJURY**.

- ▶ The suspension strut must be fixed straight and securely in position in the spring compressor!
- ▶ Depending on the suspension strut, it must be correctly and securely positioned or fastened on the shock absorber mount/support specified by the vehicle manufacturer, as shown at **3**!
- ▶ When using the universal shock absorber mount (KL-5501-1431 A), always align the stop toward the **REAR**!
- ▶ Shock absorbers with oval lower spring plates must always be aligned towards the **FRONT**!

⚠ ATTENTION

The suspension strut may be damaged when tightening the knurled screw [R].

- ▶ Tighten the knurled screw [R] only slightly by hand!



1. Adjust the suspension strut-mounting bracket [J] using the hand crank [P] to match the height of the suspension strut and correctly position or attach the suspension strut to the corresponding shock absorber-mount/support [S..] as shown in **3**.

Then insert the suspension strut straight into the suspension strut holder [J], close the clamping bar [K], and **lightly** tighten the knurled screw [R] **by hand**.

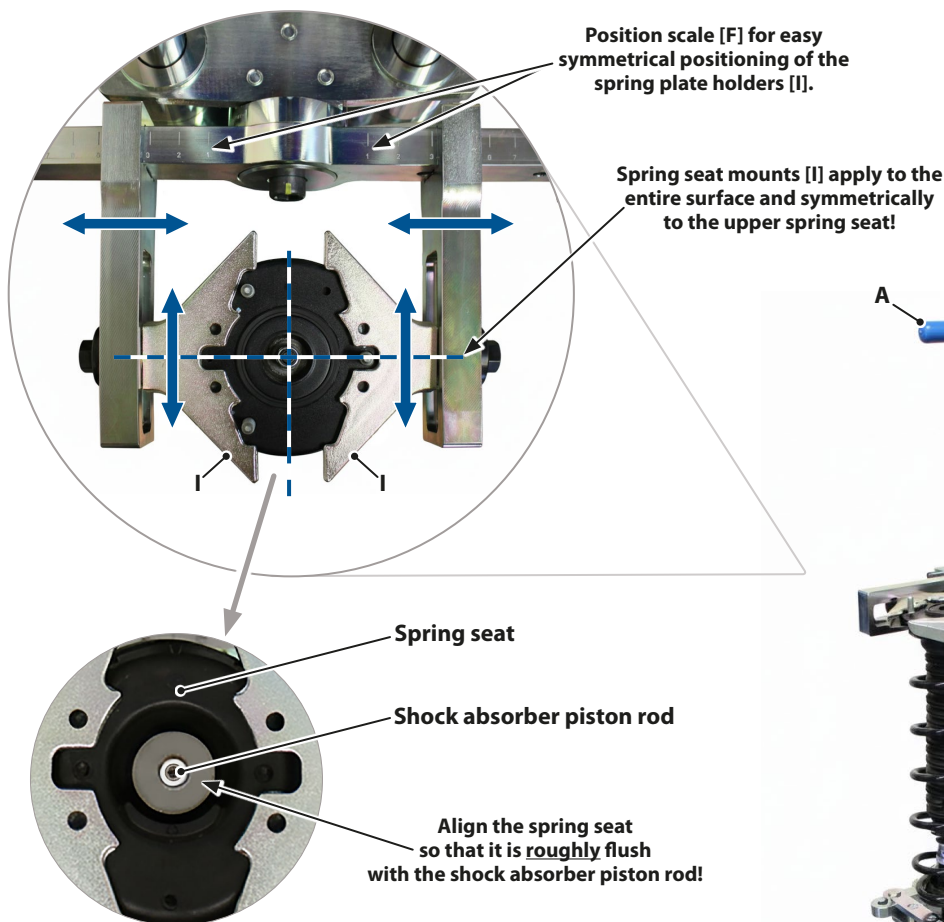
Depending on the diameter of the suspension strut $\varnothing$, adjust the clamping jaws [L] and clamping bar [K] so that the closed clamping bar [K] runs almost parallel to the spring compressor.

9: Position the spring plate mounts correctly on the upper spring plate...

⚠ WARNING

Due to incorrect installation, the spring plate mounts [I] on the upper spring plate may slip, causing the spring and other parts to be ejected in an uncontrolled manner. This can result in DEATH or SERIOUS INJURY.

- ▶ The spring plate mounts [I] must never be attached directly to the spring!
- ▶ Spring seat mounts [I] may only be attached to the upper spring seat!
- ▶ The spring plate mounts [I] must be positioned symmetrically on the upper spring plate!
- ▶ The spring plate mounts [I] must rest securely on the entire surface of the upper spring plate to prevent slipping!
- ▶ For unusual spring plate designs, use an optional spring plate adapter!



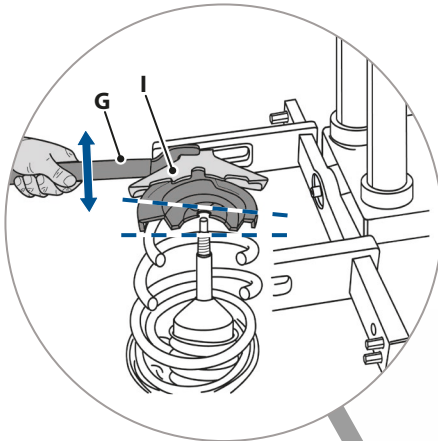
2. Turn the handwheel [A] clockwise until the spring plate mounts [I] are directly above the upper spring plates.

Align the spring plate mounts [I] as shown, symmetrically on the upper spring seat. Align the upper spring seat so that it is roughly flush with the shock absorber piston rod.

- ⓘ For unusual spring plate-designs, various "**Spring plate adapters**" are available as optional accessories. For more information, see **chapter 6** or www.gedore-automotive.com.

10: Align the upper spring seat and shock absorber piston rod...

3. This step shows the various options for precisely aligning the upper spring seat and the shock absorber-piston rod during the clamping process.

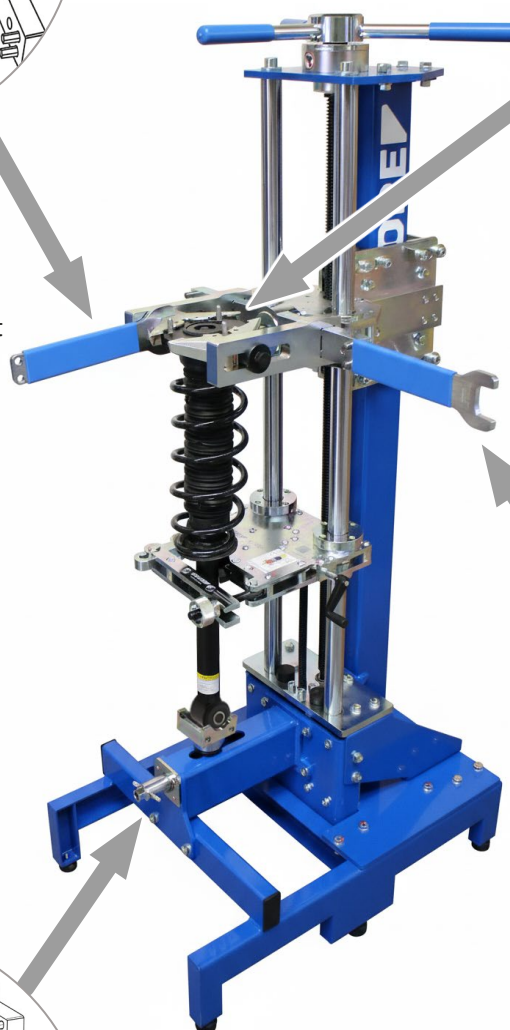


Align the spring seat
UP or **DOWN**.

To do this, tilt the spring plate
mounts [I] with the adjustment
wrench [G] accordingly.

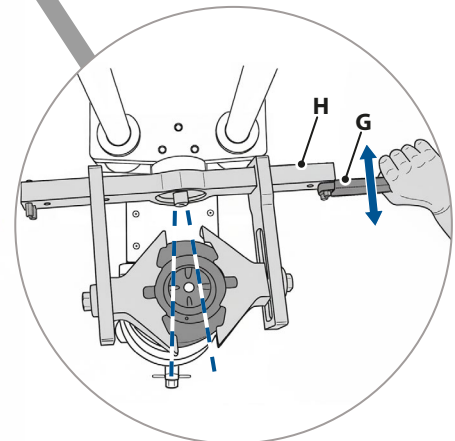
Spring seat

Shock absorber piston rod



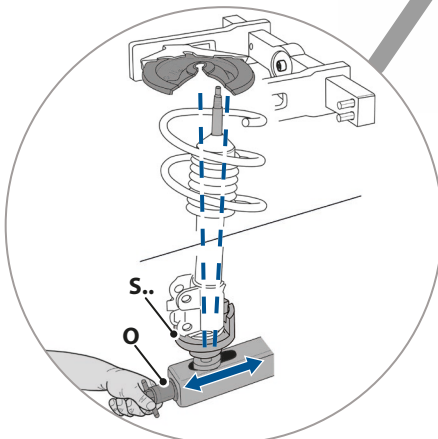
Align the spring plate to the
RIGHT or **LEFT**.

To do this, swivel the clamping
unit [H] accordingly using the
adjustment wrench [G].



Align the shock absorber piston rod
to the **FRONT** or **REAR**.

To do this, adjust the shock absorber
support [S..] using the longitudinal
adjustment [O].



11: Tension the spring carefully until the shock absorber piston rod is correctly positioned in the upper spring seat...

⚠ WARNING

Very high forces are exerted when tensioning springs! Overloading or misuse can cause the spring tensioner to break, resulting in the spring strut, spring, and other parts being ejected in an uncontrolled manner. This can lead to **DEATH** or **SERIOUS INJURY**.

► The maximum load of 22,500 newtons on the spring tensioner must never be exceeded!

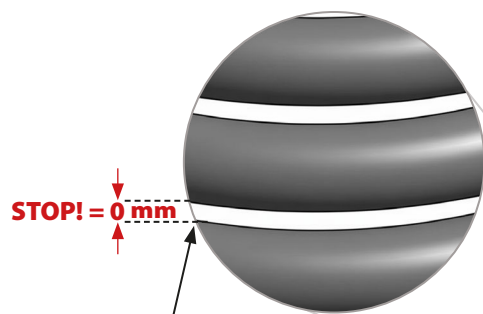
► The handwheel [A] must never be operated with a drive torque exceeding 130 N·m (96 ft-lb)!

► The spring tensioner must never be operated with an impact wrench or other mechanical drive!

► The spring tensioner may only be operated manually using muscle power via the handwheel [A]!

► The tensioning process must be stopped before the spring coils touch each other!

► The spring may only be tensioned if the spring strut is securely fixed in the spring strut-holding device [J], the spring plates-holders [I] are securely resting on the upper spring plate, and the spring strut is securely resting on or attached to the shock absorber-support [S...]!



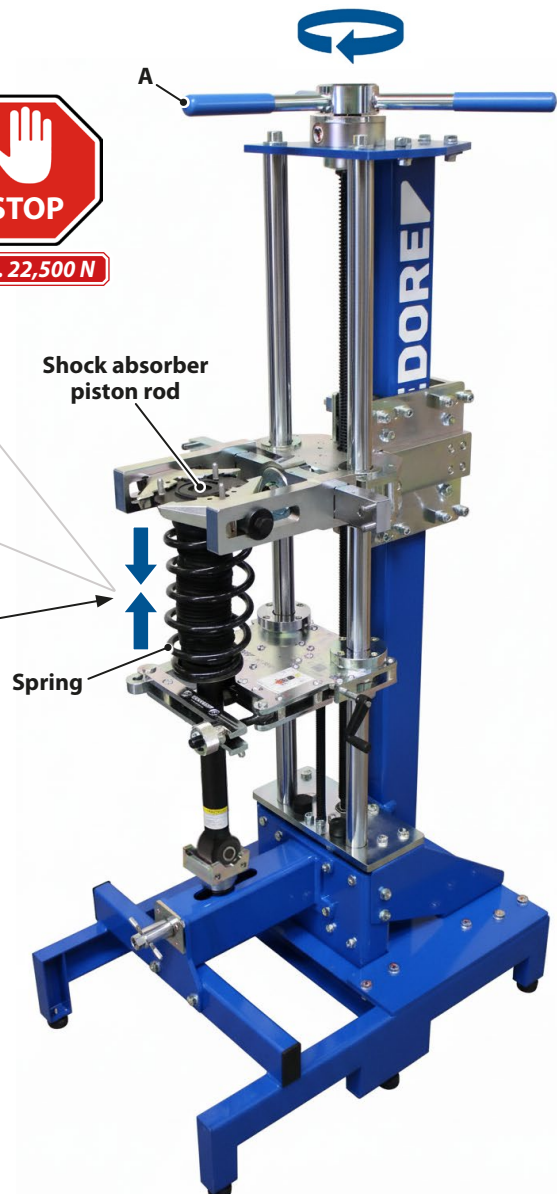
The tensioning process must be completed before the spring coils touch each other!



The spring only needs to be tensioned to the extent that the shock absorber piston rod nut can be screwed on without tension in the next step!



Max. 130 N·m (96 ft-lb)



4. To tension the spring, turn the handwheel [A] clockwise in a controlled manner until the shock absorber piston rod is correctly positioned in the upper spring seat in accordance with the vehicle manufacturer's specifications.

During the tensioning process, always align the upper spring seat and the shock absorber piston rod-as shown in **10**.

i If the handwheel [A] comes loose when operated, e.g. due to overload, a new safety pin [C] must be inserted in accordance with the instructions in **chapter 7**.

12: Screw on the shock absorber piston rod nut according to the manufacturer's specifications and relieve the pressure on the suspension strut in a controlled manner...

ATTENTION

The suspension strut may be damaged.

► **Always observe the tightening torque specified by the vehicle manufacturer for the piston rod nut!**

5. Unscrew and tighten the shock absorber piston rod nut on the suspension strut using a suitable tool in accordance with the vehicle manufacturer's specifications.

6. To relieve the pressure on the suspension strut, turn the handwheel **[A]** counterclockwise in a controlled manner until the suspension strut can be removed completely tension-free and safely.

Shock absorber piston rod nut

Strut

K

R

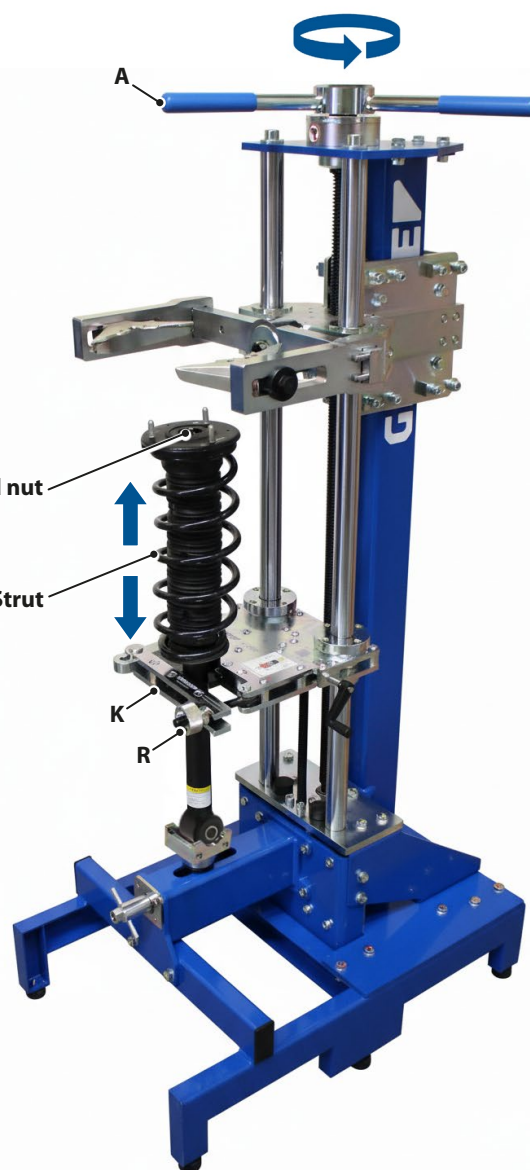
CAUTION

When removing the suspension strut, it may fall down. This can cause **INJURIES** to the legs and feet.

► **Hold the suspension strut when opening the clamping bar [K]!**

► **Personal protective equipment, such as safety shoes, must always be worn at work!**

7. To remove the shock absorber, loosen the knurled screw **[R]** and **open** the clamping bar **[K]**.



6. OPTIONAL ACCESSORIES

 This chapter shows the optional accessories for the spring compressor - **KL-5901**.

Further current accessories can be found on the homepage at www.gedore-automotive.com.

13: KL-5501-1431 A - Universal shock absorber mount, Ø 100 mm

Universally compatible with numerous conventional McPherson struts.

The shock absorber-support enables conventional McPherson-struts to be securely attached to the spring compressor (**KL-5901**). To do this, the support is mounted on the spring compressor instead of the shock absorber-mount/support [**S..**] before inserting the strut.

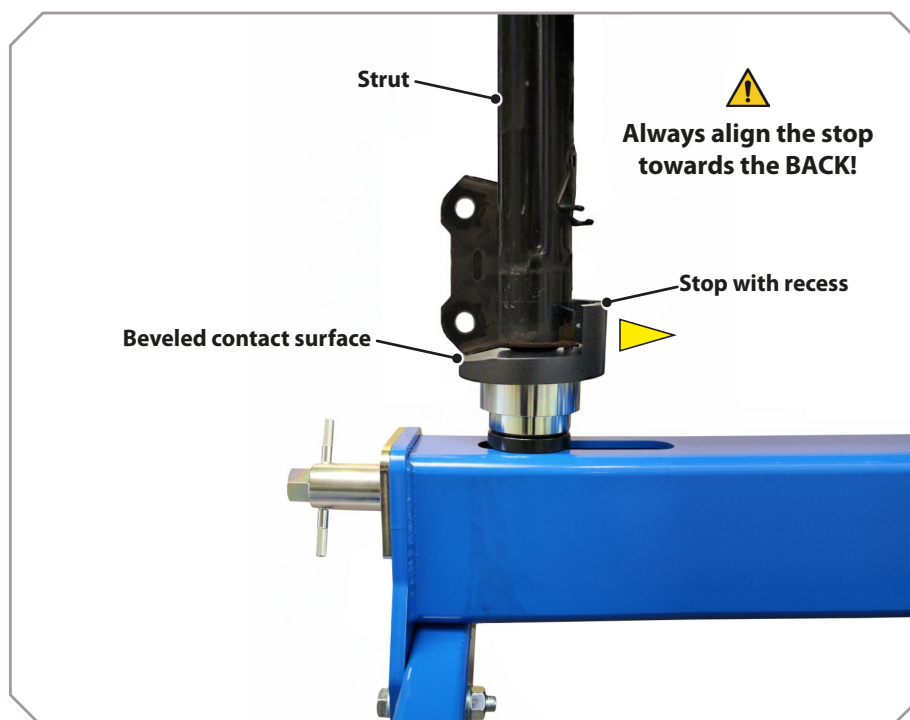
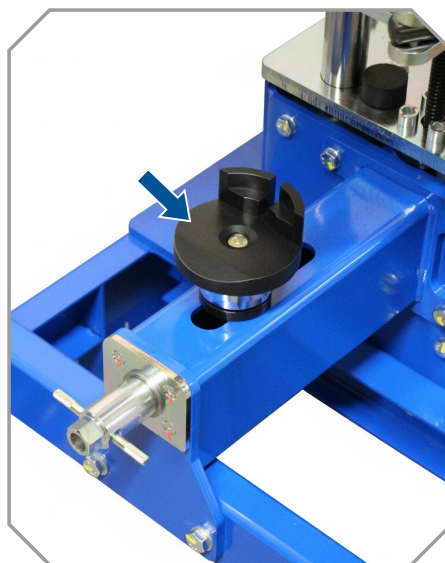
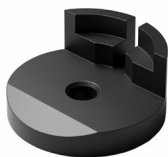
The rearward-facing stop on the support prevents the spring strut from slipping, especially in the case of oval lower spring plates or strongly curved springs.

Thanks to the partially bevelled contact surface and the recess at the stop, various suspension struts with different interfering contours and mounting plates can also be placed on the entire surface.

Technical specifications

Outer diameter: Ø100 mm

Scope of delivery



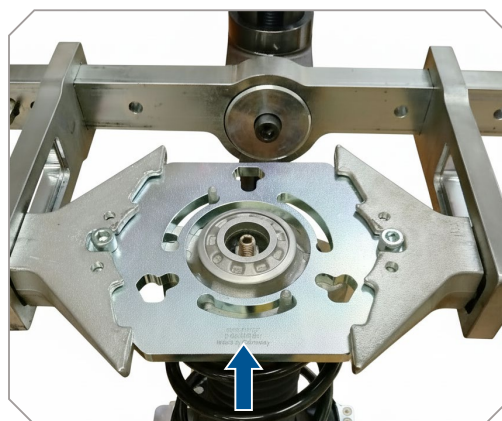
📷 14: KL-5501-32 - Spring seat adapter for Toyota, Lexus, BMW

Suitable for McPherson struts with stud bolts and very small contact surface on the upper spring seat. Installed, for example, in Toyota Avalon (XX50), Auris (E180), Avensis II (T25), Camry (XV70), Corolla (E170, E180), Corolla (E210, MZEA12, ZRE212, ZWE211), Crown (S180, S200), Mark X (GRX120, GRX121, GRX130), Prius (ZVW30), RAV4 (XA50), Reiz (ZRE152), Majesta (S180, S200); Lexus CT 200h (ZWA10), ES (XV70), GS (S190), IS (GSE20, GSE22), LS 500 (V35A, VXFA50, GVFA50), NX (AZ20); BMW 1 Series (E81, E87, E88, E82), 2 Series (G42, G87), 3 Series (G20, G21, G28, G80, G81), 3 Series (E90, E91, E92, E93), 4 Series (G22, G23, G26, G82, G83), 5 Series (E60, E61), X1 (E84), X3 (G01, F97, G08), X4 (G02, F98), Z4 (G29) and more...

The spring plate adapter enables the spring compressor (KL-5901) to be securely attached to the upper spring plate on the suspension strut. To do this, the adapter is placed over the entire surface of the upper spring plate before attaching the spring plate (-) mounts (I). The two screws on the adapter also ensure that it is centered on the spring plate (-) mounts (I).

Technical specifications

Dimensions: 248 x 170 mm

Scope of delivery

📷 15: KL-5501-31 - Spring seat adapter for VW, Audi, Škoda, Nissan, Renault

Suitable for McPherson struts with a small contact surface or unusual shape on the upper spring plate. Installed, for example, in VW (MEB platform) ID.3, ID.4; Audi Q4 e-tron; Škoda Enyaq iV; Renault Clio IV (BH/KH); Nissan Qashqai II (J11).

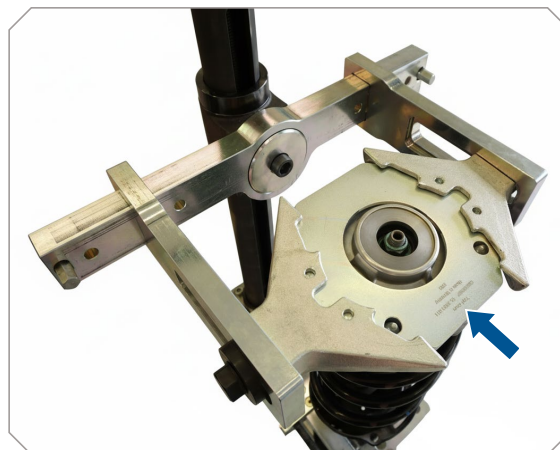
The spring seat adapter enables the spring compressor (KL-5901) to be securely attached to the upper spring seat on the suspension strut. To do this, the Ø90 mm seat holder is placed over the entire surface of the upper spring seat before attaching the spring seat holders (I). Depending on the spring seat, the diameter can be reduced further by inserting the Ø60 mm adapter ring.

Technical specifications

Inner diameter: Ø90 + Ø60 mm

Scope of delivery

Item	Item no.	Description	quantity
1	KL-5501-311	Plate holder Ø90 mm	1
2	KL-5501-312	Plate adapter from Ø90 to Ø60 mm	1



7. REPLACE THE SAFETY PIN

i This chapter describes how to replace the safety cotter pin [C] under the handwheel [A] if it has been sheared off, e.g. due to overload or misuse.

⚠ To determine the cause, please first contact: service@gedoretools.com

📷 16: Before replacing the safety pin, release the spring tensioner [C] via the auxiliary drive...

⚠ WARNING

Overloading or misuse may have damaged the spring tensioner, causing it to fail during further use. This could result in **DEATH** or **SERIOUS INJURY**.

► The sheared safety pin [C] may only be replaced after the cause has been clarified with GEDORE-Service!

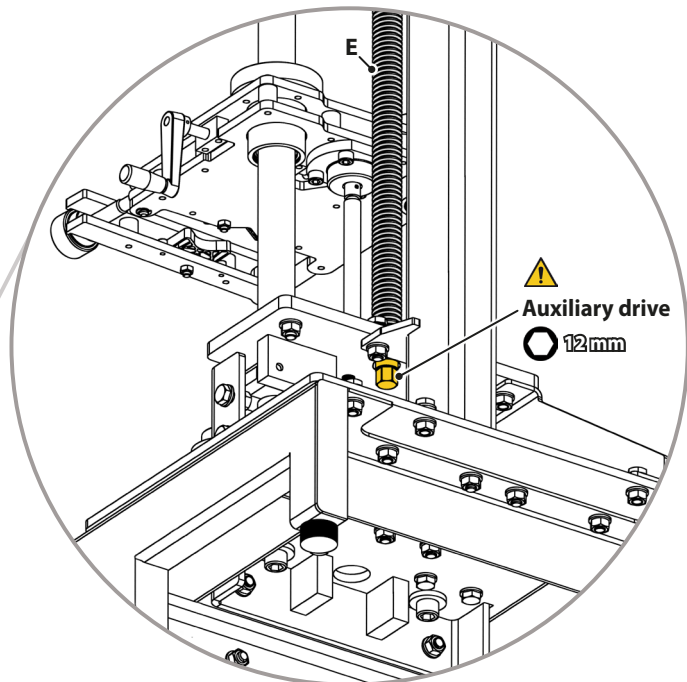
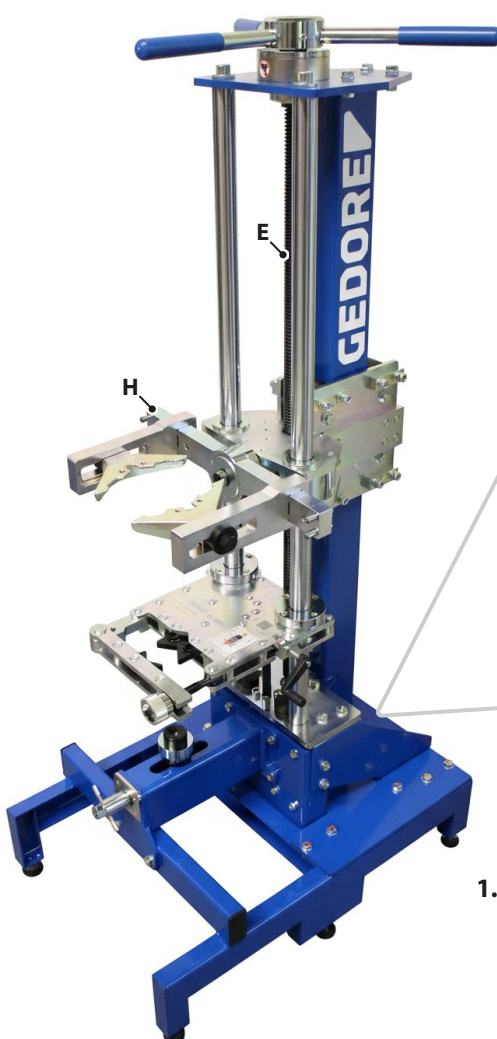
⚠ WARNING

When replacing the safety pin [C], the shock absorber or spring may suddenly release. This can result in **DEATH** or **SERIOUS INJURY**.

► If a spring strut is located in the spring tensioner, it must be completely relieved of tension via the auxiliary drive on the drive spindle [E] using the auxiliary drive located below before replacing the safety tension pin [C]!

► The auxiliary drive must never be used to tension the spring; it is used exclusively to relieve the spring tensioner when replacing the safety tensioning pin [C]!

► The safety cotter pin [C] may only be replaced once the spring tensioner has been completely relieved!



⚠ To determine the cause, please first contact: service@gedoretools.com

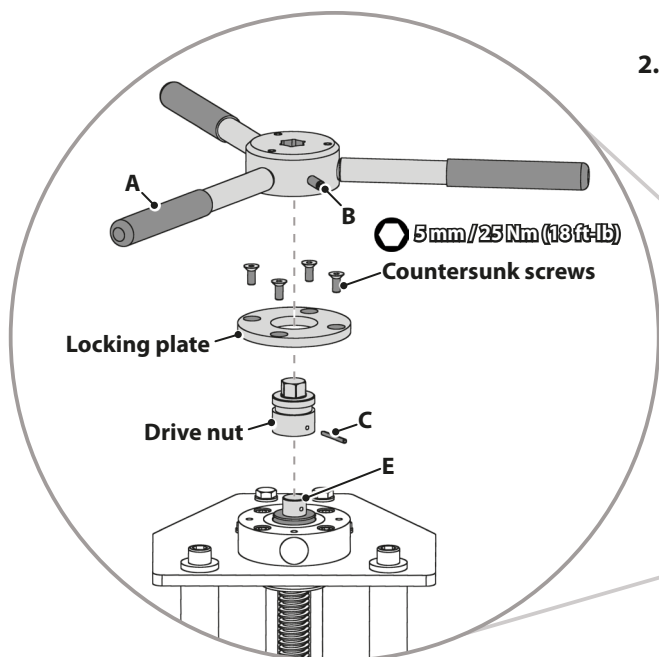
1. If there is still a spring strut in the spring tensioner, it must first be completely relieved via the **auxiliary drive** at the bottom on the drive spindle [E] for the clamping unit [H].

To do this, operate the **auxiliary drive** at the bottom using a **12 mm** external hexagon wrench.

17: Replace the safety pin [C] under the handwheel [A]...
⚠ WARNING

The use of a non-original safety pin [C] can lead to the spring tensioner breaking under excessive load, causing the spring strut, spring, and other parts to be ejected in an uncontrolled manner. This can result in DEATH or SERIOUS INJURY.

► Only use an original safety cotter pin [C] - KL-5901-1704 from GEDORE-Automotive!



2. Remove the handwheel [A] together with the loose drive nut from the drive spindle [E], then **loosen** the fixing screw [B] and remove the drive nut.

3. Loosen all countersunk screws on the locking plate on the spring compressor using a **5 mm** Allen key and remove the locking plate.

4. Completely remove the remains of the sheared tension pin [C] from the holes in the drive nut and the drive spindle [E].

5. Replace the drive nut on the drive spindle [E] in the correct position so that the holes are exactly aligned with each other.

6. Drive a new original safety pin [C] completely into the hole in the drive nut using a punch, so that it is flush on both sides.

i Item number of the original safety cotter pin: **KL-5901-1704**

7. Replace the retaining plate on the spring compressor in the correct position and secure it with the countersunk screws. Tighten the countersunk screws to **25 N·m (18 ft-lb)** using a **5 mm** allen key.

8. Place the hand wheel [A] back in the correct position on top of the hexagon on the spring compressor and secure it with the fixing screw [B]. Tighten the fixing screw [B] with a **5 mm** allen key to **25 N·m (18 ft-lb)**.

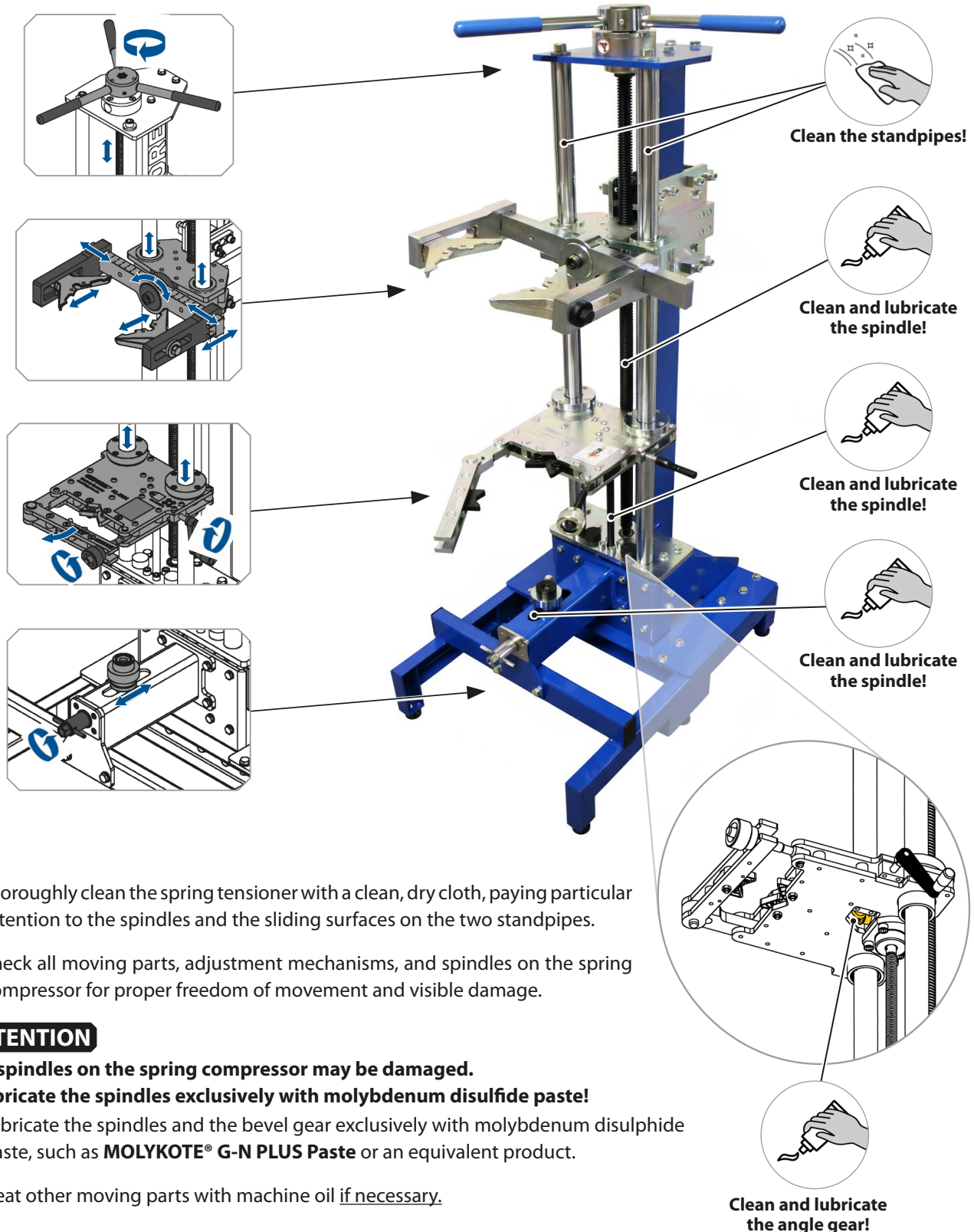


8. MAINTENANCE WORK

 This chapter describes the regular care and maintenance work required for the spring tensioner.

 The spring tensioner must be cleaned regularly, checked for damage, and treated with approved lubricant!

18: Clean, check, and lubricate spring tensioners...



1. Thoroughly clean the spring tensioner with a clean, dry cloth, paying particular attention to the spindles and the sliding surfaces on the two standpipes.
2. Check all moving parts, adjustment mechanisms, and spindles on the spring compressor for proper freedom of movement and visible damage.

ATTENTION

The spindles on the spring compressor may be damaged.

► Lubricate the spindles exclusively with molybdenum disulfide paste!

3. Lubricate the spindles and the bevel gear exclusively with molybdenum disulfide paste, such as **MOLYKOTE® G-N PLUS Paste** or an equivalent product.
4. Treat other moving parts with machine oil if necessary.

9. INDIVIDUAL PARTS OVERVIEW

KL-5901- Stationary spring compressor

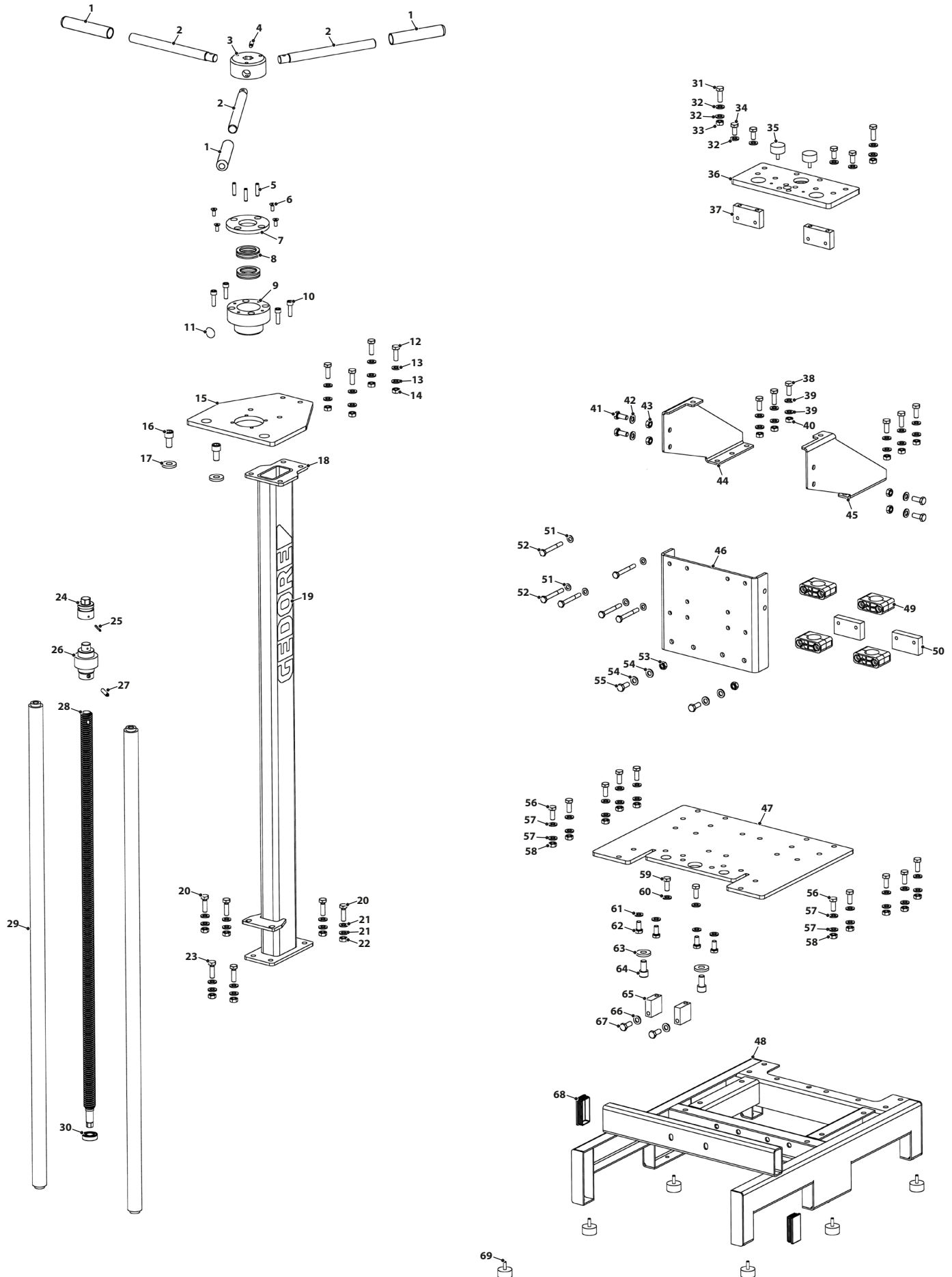
Item	Description	Quantity
1	Protective handle Ø25 x 150 mm	3
2	Shaft Ø25 mm	3
3	Attachment 24 mm	1
4	Threaded pin M10 x 30 mm	1
5	Clamping pin Ø8 x 36 mm	3
6	Countersunk screw M8 x 20 mm	4
7	Lid	1
8	Axial cylindrical roller bearings	2
9	Bearing shell for spindle	1
10	Cylinder screw M10 x 35 mm	4
11	Sticker "Impact wrenches prohibited"	1
12	SK screw M12 x 35 mm	4
13	Washer Ø12	8
14	SK nut M12	4
15	Mounting plate, top	1
16	Cylinder screw M16 x 30 mm	2
17	Washer Ø17 mm	2
18	Support	1
19	"GEDORE" sticker, 70 mm	2
20	SK screw M12 x 40 mm	4
21	Washer Ø12	12
22	SK nut M12	6
23	SK screw M12 x 35 mm	2
24	Drive nut	1
25	Clamping pin 4 x 40 mm	1
26	Pressure ring	1
27	Spiral clamping pin 10 x 40 mm	1
28	Spindle TR 30 x 6 mm - LH	1
29	Shaft Ø40 mm	2
30	Deep groove ball bearing 20 x 42 x 12 mm	1
31	SK screw M12 x 35 mm	2
32	Washer Ø12 mm	8
33	SK nut M12	2
34	SK screw M12 x 25 mm	4
35	Rubber buffer	2
36	Mounting plate	1
37	Holder for pipe clamp	2
38	SK screw M12 x 30 mm	6
39	Washer Ø12 mm	12
40	SK nut M12	6
41	SK screw M12 x 30 mm	4
42	Washer Ø12 mm	4
43	SK nut M12	4
44	Brace, left	1
45	Brace, right	1
46	Upright support plate	1
47	Base plate	1
48	Base frame	1
49	Pipe clamp Ø40 mm	4
50	Holder for pipe clamp	2
51	Washer Ø10 mm	6
52	SK screw M10 x 85 mm	6
53	SK nut M12	2
54	Washer Ø12 mm	4
55	SK screw M12 x 30 mm	2
56	SK screw M12 x 30 mm	10
57	Washer Ø12 mm	20
58	SK nut M12	10
59	SK screw M12 x 30 mm	2
60	Washer Ø12 mm	2
61	Washer Ø12 mm	4
62	SK screw M12 x 25 mm	4

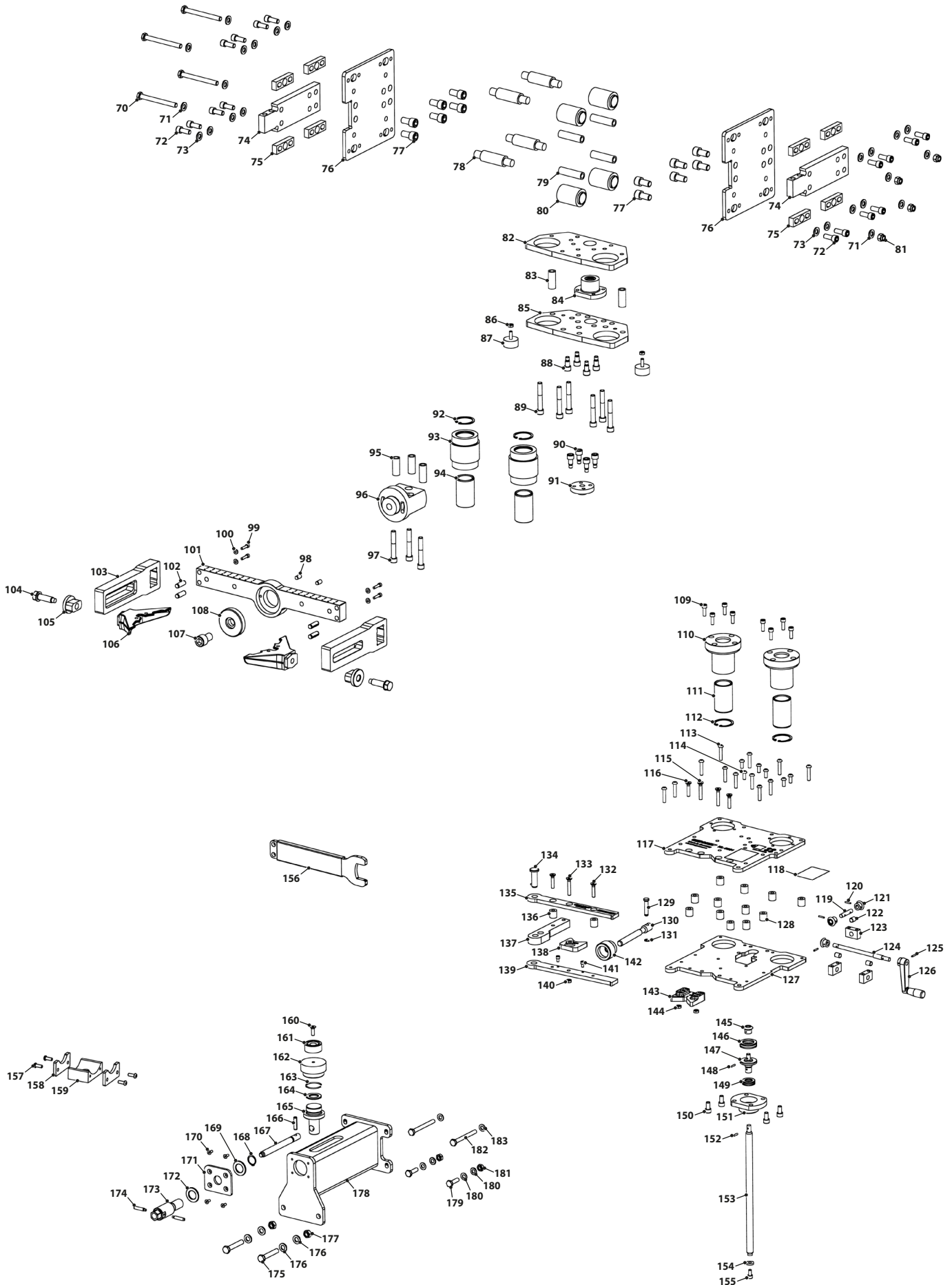
Item	Description	Quantity
63	Washer Ø17 mm	2
64	Cylinder screw M16 x 30 mm	2
65	Bolt-on strut	2
66	Washer Ø12 mm	2
67	SK screw M12 x 30 mm	2
68	Sealing plug	2
69	Rubber buffer	6
70	SK screw M12 x 120 mm	4
71	Washer Ø12 mm	8
72	Cylinder screw M12 x 30 mm	16
73	Washer Ø12 mm	16
74	Reinforcement bar	2
75	Clamping block	8
76	Side panel	2
77	Cylinder screw M16 x 30 mm	12
78	Shaft for plastic roller	4
79	Spacer sleeve, 75 mm	4
80	Plastic roll	4
81	SK nut M12 self-locking	4
82	Sliding plate, bottom	1
83	Spacer sleeve, 50 mm	2
84	Trapezoidal nut TR 30 x 6 mm - LH	1
85	Sliding plate, top	1
86	SK nut M8	2
87	Rubber buffer	2
88	Special screw M10	4
89	Cylinder screw M12 x 80 mm	6
90	Special screw M10	4
91	Flange nut TR 18x4 mm	1
92	Retaining ring Ø50 x 2 mm	2
93	Bearing housing	2
94	Brass plain bearing Ø40 x 80 mm	2
95	Spacer sleeve, 50 mm	3
96	Mounting with Ø50 mm spigot	1
97	Cylinder screw M12 x 80 mm	3
98	Cylindrical pin Ø10 x 20 mm	2
99	Cylinder screw M6 x 25 mm	4
100	Washer Ø6.4 mm	4
101	Cross plate Ø50 mm	1
102	Cylindrical pin Ø12 x 36 mm	4
103	Guide plate, thick	2
104	Special hexagon screw M16	2
105	Slotted nut M16	2
106	Pen holder M16	2
107	Cylinder screw M20 x 30 mm	1
108	Disc Ø80 mm	1
109	Cylinder screw M8 x 25 mm	8
110	Bearing mount with flange	2
111	Brass plain bearing Ø40 x 80 mm	2
112	Retaining ring Ø50 x 2 mm	2
113	Pan head screw M8 x 40 mm	12
114	Pan head screw M8 x 20 mm	6
115	Countersunk screw M8 x 50 mm	2
116	Countersunk screw M8 x 40 mm	2
117	Base plate, top	1
118	Sticker "Alignment illustration sticker"	1
119	Shaft, short	1
120	Clamping pin Ø3 x 18 mm	3
121	Bevel gear Ø10 mm	3
122	Plain bearing bushing Ø10 x 15 mm	3
123	Bearing block	3
124	Shaft for crank	1

Item	Description	Quantity
125	Clamping pin Ø3 x 18 mm	1
126	Hand crank	1
127	Base plate, bottom	1
128	Spacer	12
129	Bolt	1
130	Spindle M16	1
131	Retaining ring Ø8 mm	1
132	Countersunk screw M8 x 40 mm	2
133	Countersunk screw M8 x 50 mm	1
134	Staking pin with pressure piece	1
135	Clamping bar, lowering	1
136	Spacer	2
137	Adjustment bar	1
138	Plastic pressure piece	1
139	Clamping bar thread	1
140	SK nut M8	1
141	Cylinder screw M6 x 10 mm	2
142	Lock nut	1
143	3-way plastic holder	1
144	SK nut M8	2
145	Bevel gear Ø10 mm	1
146	Thrust bearing	1
147	Pressure disc	1
148	Clamping pin Ø3 x 18 mm	1
149	Thrust bearing	1
150	Cylinder screw M10 x 20 mm	4
151	Bearing shell spindle TR 18 x 4 mm	1
152	Spiral clamping pin 4 x 16 mm	1
153	Spindle TR 18 x 4 mm	1
154	Washer Ø8.4 mm	1
155	Cylinder screw M8 x 16 mm	1
156	Open-end wrench	1
157	Pan-head screw M6 x 16 mm	4
158	Side panel	2
159	Shock Absorber Mount	1
160	Countersunk screw M8 x 25 mm	1
161	Adapter plate shock absorber	1
162	Support plate	1
163	Snap ring RB42	1
164	Flywheel Ø42 x 25 x 3 mm	1
165	Cone	1
166	Clamping pin Ø8 x 36 mm	1
167	Spindle M16	1
168	Retaining ring A24	1
169	Flywheel Ø42 x 25 x 3 mm	1
170	Countersunk screw M6 x 14 mm	4
171	Cover for flange nut	1
172	Flywheel Ø42 x 25 x 3 mm	1
173	SK union nut	1
174	Lever	2
175	SK screw M12 x 70 mm	2
176	Washer Ø12 mm	4
177	SK nut M12	2
178	Boom	1
179	SK screw M10 x 35 mm	2
180	Washer Ø10 mm	4
181	SK nut M10	2
182	SK screw M10 x 100 mm	2
183	Washer Ø10 mm	2

⚠ If you have any questions about individual items, please contact: service@gedoretools.com

Available individual parts		
Part no.	Description	Scope of delivery (Item)
KL-5000-1021	3-way plastic holder	143 (1x)
KL-5000-1022	Plastic pressure piece	138 (1x)
KL-5000-1023	Countersunk screw M8 x 50 mm	115 (1x)
KL-5501-5005	Rubber buffer	69 (1x)
KL-5901-12	Clamping unit	6 (4x) + 109 (8x) + 110 (2x) + 111 (2x) + 112 (2x) + 113 (12x) + 114 (6x) + 115 (2x) + 116 (2x) + 117 (1x) + 118 (1x) + 119 (1x) + 120 (3x) + 121 (3x) + 122 (3x) + 123 (3x) + 124 (1x) + 125 (1x) + 126 (1x) + 127 (1x) + 128 (12x) + 129 (1x) + 130 (2x) + 131 (1x) + 132 (2x) + 133 (1x) + 134 (1x) + 135 (1x) + 136 (2x) + 137 (1x) + 138 (1x) + 139 (1x) + 140 (1x) + 141 (2x) + 142 (1x) + 143 (1x) + 144 (2x)
KL-5901-122	Bevel gear with handwheel	120 (1x) + 121 (1x) + 122 (2x) + 123 (2x) + 124 (1x) + 125 (1x) + 126 (1x)
KL-5901-13	Spring holder	98 (2x) + 99 (4x) + 100 (4x) + 101 (1x) + 102 (4x) + 103 (2x) + 104 (2x) + 105 (2x) + 106 (2x)
KL-5501-1427	Lever	176 (1x)
KL-5901-1431	Adapter plate shock absorber	163 (1x)
KL-5501-1432	Countersunk screw M8 x 25 mm	162 (1x)
KL-5901-144 A	Adapter for Toyota Tundra strut	157 (4x) + 158 (2x) + 159 (1x)
KL-5901-15	Open-end wrench	156 (1x)
KL-5901-1704	Clamping pin 4 x 40 mm	25 (1x)
KL-5901-1803	Threaded pin M10 x 30 mm	4 (1x)
KL-5901-2003	Cylinder screw M20 x 30 mm	107 (1x)





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