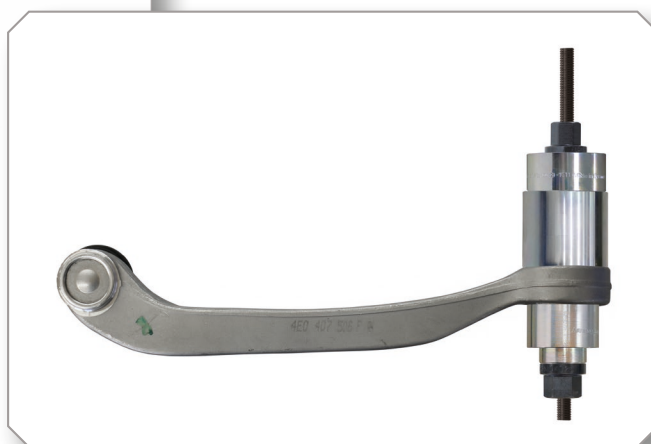


KL-0214-27

Silent bearing tool (mechanical) for VAG multi-link axles



GEDORE Automotive GmbH

Breslauer Straße 41
78166 - Donaueschingen
Postfach 1329
78154 Donaueschingen - GERMANY
☎ +49 (0) 771 / 8 32 23-0
☎ +49 (0) 771 / 8 32 23-90
✉ info.gam@gedore.com



www.gedore-automotive.com



03/2026

KL-0214-27__EN260208.indd

**ENGLISH****EN**

Manufacturer's address

GEDORE Automotive Limited Company

Breslauer Straße 41 // 78166 Donaueschingen - GERMANY

☎ +49 (0)771/83223-71 // ✉ info.gam@gedore.com

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1. FOR SAFETY, READ AND UNDERSTAND



These operating instructions are part of **the SILENT BEARING TOOL** and serve to familiarise you with this special tool. Read and understand these operating instructions before using the special tool and follow all instructions, regulations and notes contained therein for safe use. Keep the operating instructions in a safe place so that you or subsequent users can access them 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 contact **GEDORE Automotive** if necessary.

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 unauthorised, inexperienced, underage persons or persons with physical, sensory or mental disabilities, **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 recognised rules of technology and relevant safety regulations at the time of placing on the market.

- ▶ **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 SILENT BEARING TOOL ...

- ... **may only** be used on silent bushings on the upper front axle-wishbones on VAG multi-link axles!
- ... **may only** be used for pressing out and pressing in silent bearing bushes with an outer diameter of 46 - 47 mm!
- ... **may only** be loaded up to a **maximum load of 5 tonnes** !
- ... **may only** be used manually using muscle power with a manual drive or a manually operated **GEDORE Automotive** hydraulic cylinder/pump combination with a pressure gauge for safe pressure control!
- ... **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 SILENT BEARING TOOL ...

- ... **must never** be used for pressing out or pressing in other parts or in any other way than intended!
- ... **must never** be used with an impact wrench or impact driver!
- ... **must never** be used with a mechanical drive, a mechanically driven hydraulic cylinder/pump combination or any other drive than that intended for its intended use!
- ... **must never** be used for serial processing with many repetitive work steps!
- ... **must never** be used with a bypassed, modified or removed safety device!
- ... **must never** be modified, converted or misused without authorisation!
- ⚠ **Always** use the special tool as intended. Any other use may result in **DEATH** or **SERIOUS INJURY** !

1.5 Personal protective equipment (PPE)

For your safety, wear personal protective equipment when using the special tool! 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 Labelling of warning notices

Warnings indicate **potential hazards** which, if ignored, could result in **DEATH** or **SERIOUS INJURY** in the worst case scenario and must therefore be observed without fail. In this operating manual, warnings are classified as follows for better differentiation and recognisability:

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	Reference to 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 Working 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 unauthorised persons.
- The workplace **must** have a room temperature between -10°C and +40°C.

1.8 Emissions

Hydraulic oil and molybdenum disulphide paste may drip or leak when using the special tool and pose a risk to the environment.

- **Immediately** remove any **spilled** hydraulic oil and excess molybdenum disulphide paste, e.g. using oil binders or a cleaning cloth.
- In case of skin contact, **immediately** clean the affected area with grease-dissolving soap and water.
- **Always** dispose of harmful substances such as hydraulic oil and molybdenum disulphide paste **in an environmentally friendly manner**.
- Safety data sheets *in accordance with Regulation (EC) No. 1907/2006* on hydraulic oil (**Alsus Hyd HLP 32 or 46**) and molybdenum disulphide paste (**MOLYKOTE® G-N PLUS PASTE**) can be found on the manufacturer's website (**World Wide Web**) or, if necessary, **by contacting 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 damage to property 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 unauthorised or restricted persons, or by persons who are tired or under the influence of intoxicating substances.
- ▶ **Read the instructions:** The special tool must be used in accordance with this operating manual and any instructions for accessories, and all instructions, regulations and notes contained therein must be strictly observed.
- ▶ **Comply with applicable safety regulations:** The special tool must always be used in accordance with the applicable regulations on occupational safety, accident prevention and environmental protection.
- ▶ **Wear personal protective equipment:** When using special tools, 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 spare parts and accessories from GEDORE Automotive.
- ▶ **Check before use:** Before use, the special tool must be checked for damage, loose parts, unauthorised 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 authorised specialist personnel from GEDORE Automotive.
- ▶ **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 the 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 unauthorised persons in the immediate working environment.
- ▶ **Ensure stability:** The special tool must always be checked for stability and secure support. In particular, the hydraulic cylinder must be secured against falling and swinging around, e.g. by holding it in place or using a safety belt or a holding device from GEDORE Automotive.
- ▶ **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.
- ▶ **Keep away from rotating parts:** The special tool may only be used with close-fitting work clothing; gloves and jewellery must be removed and hair and clothing must be kept away from rotating parts.
- ▶ **Never leave unattended under load:** The special tool must never be left unattended on the vehicle or component, especially when under load or tension.
- ▶ **Avoid harmful forces:** The special tool must never be subjected to blows, clamping or other harmful 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.
- ▶ **Exclusion 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

Carry out 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 unauthorised modifications.
- ▶ **Before each use**, check the moving parts and spindle of the special tool for free movement and contamination. Clean if necessary and then lubricate them exclusively with approved lubricants.

Recommended every 24 months:

- ▶ Have the special tool inspected **every 24 months** by authorised **GEDORE Automotive** specialists.

1.11 Troubleshooting

Only carry out troubleshooting on special tools when they are not under load!

Problem: Clamping nut runs sluggishly on the spindle of the mechanical drive.

Cause: Clamping nut and spindle contaminated or insufficiently lubricated, or incorrect lubricant used.

Remedy: Clean the clamping nut and spindle, check for damage and lubricate **exclusively** with molybdenum disulphide paste, e.g. **KL-0014-0030** from **GEDORE-Automotive**.

Problem: Drive nut on the spindle loose on the special tool, no longer providing a secure grip.

Cause: Clamping pin of the drive nut defective, e.g. due to overloading of the clamping cylinder.

Remedy: Relieve the clamping cylinder via the auxiliary drive and insert a new clamping pin into the drive nut (see **Chapter 5**).

Problem: Hydraulic oil is leaking from the hydraulic coupling between the hydraulic cylinder and the hand pump.

Cause: Hydraulic coupling dirty or loose.

Remedy: Clean and retighten the hydraulic coupling (). Top up any missing hydraulic oil (**HLP 32** or **46**) in the hand pump.

Problem: Hydraulic hand pump does not build up pressure or only very slowly.

Cause: Pressure relief valve on the hand pump is open or hydraulic oil is missing.

Remedy: Close the pressure relief valve on the hand pump completely and, if necessary, top up the hand pump with hydraulic oil (**HLP 32** or **46**).

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.
- ▶ Lubricate the special tool **exclusively** with molybdenum disulphide paste, e.g. **KL-0014-0030** from **GEDORE Automotive**.
- ▶ 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

⚠ WARNING

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

▶ If damage, loose parts or unauthorised modifications to the special tool are detected, 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 authority for environmentally friendly disposal options.

2. PRODUCT DESCRIPTION

2.1 KL-0214-27 – Silent bearing tool (mechanical) for VAG multi-link axles

Universally suitable for silent bearing bushes on the upper front axle control arms of VW, Audi, Seat, Škoda and Bentley multi-link axle-.

Specifically for silent bearing bushings with an outer diameter of 46–47 mm, e.g. with OE numbers: 3W0407515, 4B0407515, 4D0407515, 4D0407515C, 4E0407515, 4E0407515D, 8D0407515, 8D0407515C and many others with identical dimensions.

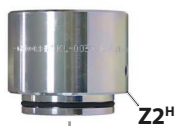
- This tool set enables the professional removal and installation of silent bearing bushes on the upper wishbones of the front axle, especially on VAG multi-link axles.
- This means that replacement can be carried out quickly and easily directly on the vehicle.
- This eliminates the need for time-consuming removal of the entire wishbones.
- There is also no need to loosen the usually problematic clamping screw.
- Including all necessary mechanical drive components.

2.2 Scope of delivery / Individual parts overview / Drive components

 This table shows all components for the silent bearing tool.

Before use, first check that all parts included in the scope of delivery are present and, if necessary, assemble any additional components required.

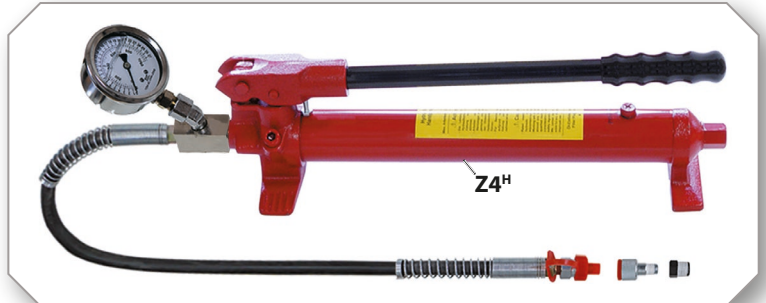
Pressure/support sleeves...		Item	KL-0214-27
KL-0039-1910-2 - Union nut M10x1.25 mm		A	
KL-0214-2701 - Pressure sleeve Ø 46 / 38 mm		B	
KL-0039-1656 - Support sleeve Ø 56 / 48 mm		C	
Drive components... 			
Mechanical ^M	KL-0214-2702 - Lead screw M10x1.25 mm, 210 mm	Z1M	● ^M
	KL-0039-1011 - Mounting adapter for mechanical drive	Z2M	● ^M
	KL-0039-1910-2 - Union nut M10x1.25 mm	Z3M	● ^M
<i>Alternatively: Hydraulic</i> ^H	KL-0039-1910-1 - Lead screw M10x1.25 mm, 590 mm	Z1H	+ ^H
	KL-0039-1003 - Mounting adapter for hydraulic cylinders	Z2H	+ ^H
	KL-0040-2500 - Hydraulic cylinder 17 t	Z3H	+ ^H
	KL-0215-35 M25 - Hydraulic hand pump 17 t	Z4H	+ ^H
● = Included in delivery / + = Can be used as an alternative / .. ^M = Mechanical drive components / .. ^H = Hydraulic drive components			



Alternative: Hydraulic drive



Mechanical drive



2.3 Technical data

Pull spindles: M10x1.25 mm

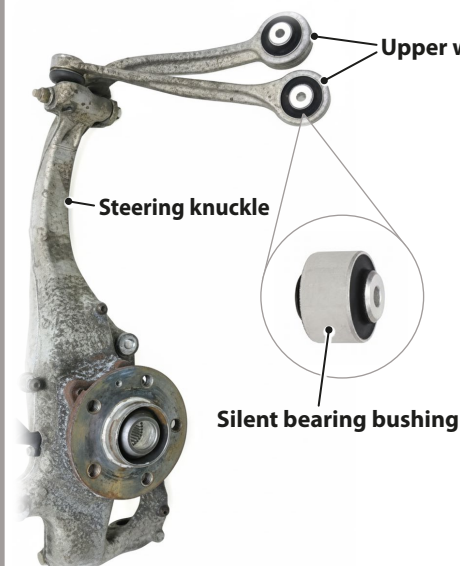
Maximum load: 5 tonnes



3. PREPARATION

3.1 Preparing the vehicle

📷 1: Prepare the upper wishbones accordingly...



ATTENTION

Brake hoses, cables and the drive shaft may be damaged when replacing the silent bearing bushes.

► Support the steering knuckle for the following work and ensure that none of these components are subjected to tension.

1. Lift the vehicle safely and prepare all necessary parts for the silent bearing replacement according to the manufacturer's specifications.

For example:

Remove the wheel and loosen one of the two upper wishbones, then swing it forward so that the silent bearing bushing is easily accessible.

- ❗ It is advantageous to loosen only one of the upper wishbones. This keeps the steering knuckle more stable when replacing the silent bearing bushing.

3.2 Prepare the tool

📷 2: Prepare the silent bearing tool accordingly...

⚠ WARNING

The silent bearing tool may fall or break and fly off when using a machine drive. This can result in DEATH or SERIOUS INJURY!

► The silent bearing tool may only be operated manually, using muscle power with a manual drive or a manually operated GEDORE automotive hydraulic cylinder/pump combination with a suitable pressure gauge for safe pressure control!

► Secure the Silentlager tool against falling, e.g. by holding it in place or, especially when using the hydraulic cylinder [Z3^H], using the mounting device available as an accessory - KL-0040-258 A!

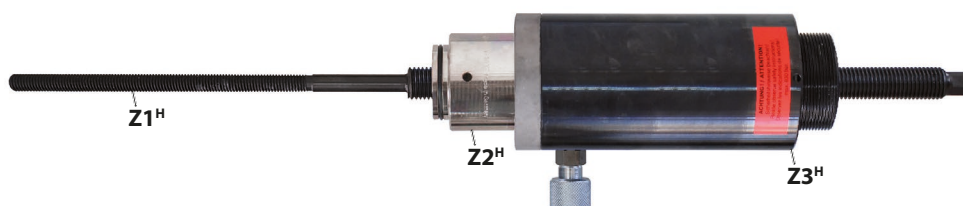
... with mechanical drive components.



1. Prepare the **mechanical** (..^M) or optional hydraulic (..^H) drive components as shown in .

❗ For further drive components and accessories, see:
www.gedore-automotive.com

... alternatively with hydraulic drive components.



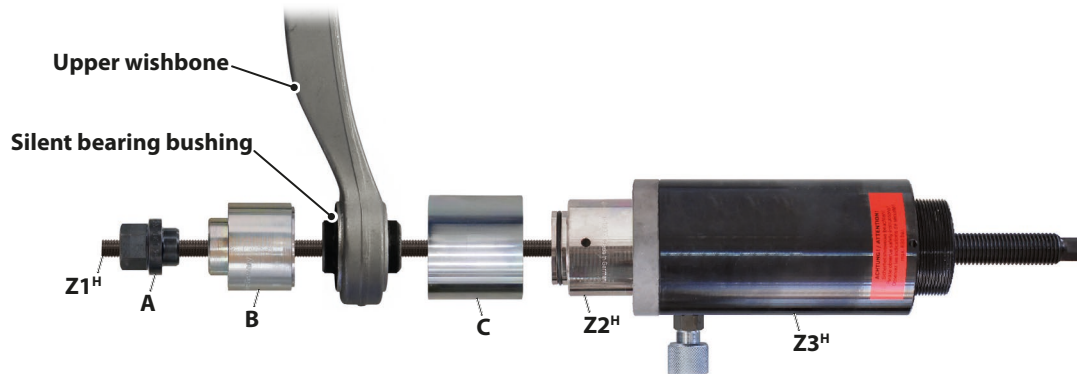
4. APPLICATION EXAMPLE

① This application example describes the removal and installation of a silent bearing bushing on the upper wishbone of the front axle using the silent bearing tool and hydraulic drive components (..^H).

When using mechanical drive components (..^M), this process is always carried out according to the same principle.

4.1 Press out the silent bearing bushing

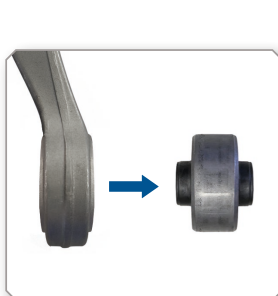
📷 3: Position the silent bearing tool on the wishbone accordingly...



1. Assemble the silent bearing tool as shown and position it correctly through the silent bearing bushing on the wishbone.

To do this, unscrew the lock nut [A] until the pressure sleeve [B] is fully seated on the silent bearing bushing and the support sleeve [C] is fully seated on the wishbone.

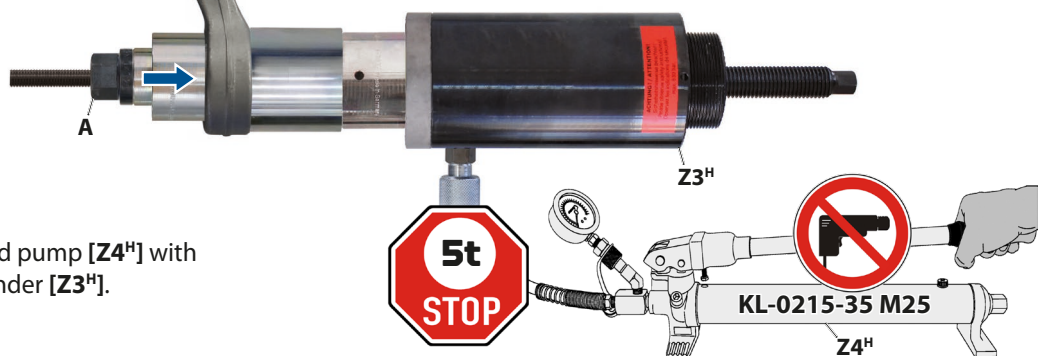
📷 4: Carefully press out the silent bearing bushing...



⚠️ WARNING

The silent bearing tool may fall or break due to overloading or misuse and fly off. This can result in DEATH or SERIOUS INJURY!

- ▶ Never overload the silent bearing tool, never use it with a mechanical drive or in any other way than intended!
- ▶ Secure the silent bearing tool against falling!



2. Hydraulic hand pump [Z4^H] with hydraulic cylinder [Z3^H].

3. Align the silent bearing tool cleanly and centrally with the silent bearing bushing. Hydraulic hand pump [Z4^H] paying attention to the pressure on the pressure gauge, and press out the silent bearing bushing in a controlled manner.

① The hydraulic cylinder [Z3^H] has a maximum stroke of 45 mm. If this is reached, interrupt the pressing process, reduce the pressure on the hydraulic hand pump [Z4^H], and loosen the collar nut [A] and then resume the pressing process.

4.2 Press in the silent bearing bushing

📷 5: Position the silent bearing tool and silent bearing on the wishbone accordingly...



ATTENTION

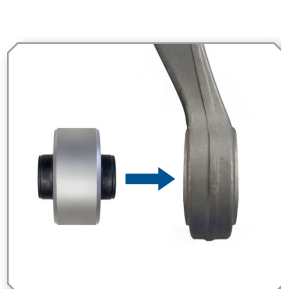
The silent bearing may be damaged during pressing!

► Observe the installation position of the silent bearing in accordance with the manufacturer's specifications!

1. Assemble the silent bearing tool as shown and attach it to the wishbone with the new silent bearing bushing in the correct position according to the manufacturer's specifications.

To do this, unscrew the lock nut [A] until the support sleeve [C] and pressure sleeve [B], together with the new silent bearing bushing, are completely and centrally aligned with the hole in the wishbone.

📷 6: Check the silent bearing bushing and press it in correctly according to the manufacturer's specifications...

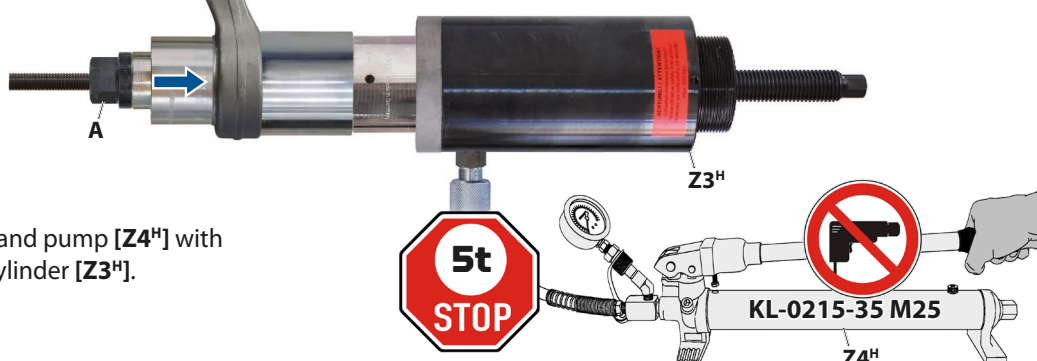


⚠ WARNING

The silent bearing tool may fall or break due to overloading or misuse and fly off. This can result in DEATH or SERIOUS INJURY!

► Never overload the silent bearing tool, never use it with a mechanical drive or in any other way than intended!

► Secure the silent bearing tool against falling!



2. Hydraulic hand pump [Z4^H] with hydraulic cylinder [Z3^H].

3. Align the new silent bearing bushing correctly with the wishbone according to the manufacturer's specifications. Hydraulic hand pump [Z4^H], paying attention to the pressure on the pressure gauge, and press in the silent bearing bush in a controlled manner until it reaches the specified position according to the manufacturer's specifications.

❗ The hydraulic cylinder [Z3^H] has a maximum stroke of 45 mm. If this is reached, interrupt the pressing process, reduce the pressure on the hydraulic hand pump [Z4^H], and loosen the collar nut [A] and then resume the pressing process.

4. Release the silent bearing tool, check that the silent bearing is correctly seated and remove the silent bearing tool.