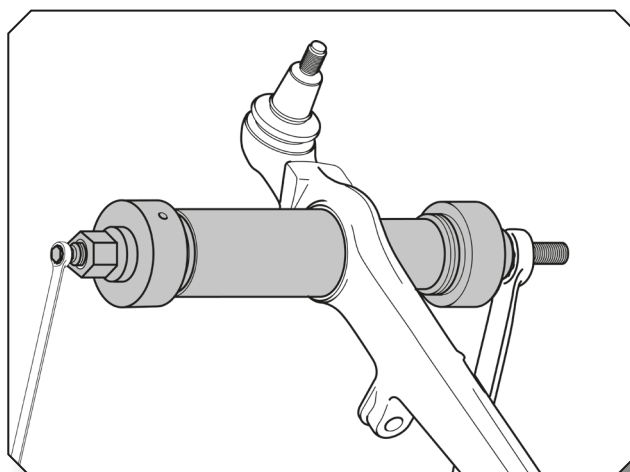




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1. PLEASE READ AND UNDERSTAND FOR SAFETY REASONS



These operating instructions form part of **THE SILENT/PIVOTING BEARING TOOL** and are intended to familiarise you with this specialised tool. Please read and understand these operating instructions before using the specialised tool and follow all the instructions, warnings and notes set out herein to ensure 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, in the worst-case scenario, incorrect use of the special tool can 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 audience

These operating instructions are intended **solely** for trained specialists with comprehensive technical knowledge of motor vehicle repairs.

- ▶ This specialised tool **must only** be used in specialist automotive workshops by trained professionals who possess the necessary expertise in handling specialised automotive tools and are familiar with the applicable regulations on health and safety at work, accident prevention as well as environmental protection.
- ▶ The special tool **must never** be used by unauthorised, inexperienced or underage persons, **as well as** by persons with physical, sensory or mental impairments, **nor** by persons who are tired or under the influence of medication, alcohol, drugs or similar intoxicating substances.

1.2 The owner's obligations

Under *the Ordinance on Industrial Safety and Health*, employers are obliged to provide their employees with safe work equipment! **GEDORE Automotive's** specialist tools comply with recognised technical standards as well as relevant safety regulations at the time they are placed on the market.

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

1.3 Intended use

The SILENT/PIVOTING BEARING TOOL...

- ... **may only** be used for pressing in and out Silent/pivoting bearings as well as ball joints on cars, commercial vehicles and vans!
- ... **may only** be loaded up to the load limit of the weakest component used, but by no more than 20 tonnes!
- ... **may only** be used **manually, using muscle power, with a manual drive or a manually operated GEDORE Automotive** hydraulic cylinder/pump combination fitted with a pressure gauge for safe pressure monitoring!
- ... **may only** be used with genuine **GEDORE Automotive** spare parts and accessories!
- ... **may only** be used in the manner described in the operating instructions!
- ⚠ Any other use may result in **DEATH or SERIOUS INJURY** !

1.4 Reasonably foreseeable misuse

The SILENT/PIVOTING BEARING TOOL...

- ... **must never** be used to press parts in or out, or in any way other than that for which it is intended!
- ... **must never** be used with an impact or hammer drill!
- ... **must never** be used with a mechanical drive, a mechanically driven hydraulic cylinder/pump combination or any drive other than that specified for its intended purpose!
- ... **must never** be used for batch processing involving a large number of constantly recurring operations!
- ... **must never** be used with a bypassed, modified or removed safety device!
- ... **must never** be altered, modified or used for any other purpose without authorisation!
- ⚠ **Always** use the special tool for its intended purpose. Any other use may result in **DEATH or SERIOUS INJURY** !

1.5 Personal protective equipment

For your own safety, please wear personal protective equipment when using the special tool! The special tool may pose mechanical hazards such as crushing, cuts 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 debris or particles!

►When using the special tool, flying parts or particles may **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 pinching between parts!

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



Wear **SAFETY FOOTWEAR** (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 may **cause SERIOUS INJURY to your feet and toes!**

1.6 Labelling of warning notices

Warnings highlight **potential hazards** which, if ignored, could in the worst-case scenario result in **DEATH** or **SERIOUS INJURY**, and must therefore be observed at all times. In these operating instructions, the warnings are classified as follows to make them easier to distinguish and recognise:

Warning sign	Meaning
WARNING	Note on a potentially dangerous situation which, if not avoided, could result in DEATH or SERIOUS INJURY !
CAUTION	Note of a dangerous situation which, if not avoided, could result in MODERATE or MINOR INJURIES !
ATTENTION	Note on a situation which, if not avoided, may result in damage to the tool or to objects in its vicinity!
i	Notes on 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, as well as extreme humidity and dampness!

- The workplace **must** be clean and tidy.
- The workplace **must** be of a sufficient size and well lit.
- The workplace **must** have a stable and non-slip surface.
- The workplace **must** be secured to prevent unauthorised persons from gaining access.
- The workplace **must** have a room temperature within the range of -10°C to +40°C.

1.8 Emissions

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

- Immediately** remove any **leaking** hydraulic oil as well as any excess molybdenum disulphide paste, e.g. using an oil absorbent or a cleaning cloth.
- In the event of skin contact, wash the affected area **immediately** with grease-dissolving soap and water.
- Always** dispose of hazardous substances such as hydraulic oil and molybdenum disulphide past **in an environmentally responsible manner**.
- Safety data sheets *in accordance with Regulation (EC) No 1907/2006* for the hydraulic oil used (**Alsus Hyd HLP 32, HLP 46**) as well as the molybdenum disulphide past (**MOLYKOTE® G-N PLUS PASTE**) can be found on the manufacturer's website (**World Wide Web**); if necessary, please contact **GEDORE-Automotive** at.

1.9 Basic safety, warning and handling instructions

WARNING **CAUTION** **ATTENTION**

Failure to comply may result in 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 prevent life-threatening situations, injuries and damage to property resulting from hazards, incorrect use, misuse or improper handling.

- ▶ **For use by qualified personnel only:** This specialised tool must only be used in specialist automotive workshops by trained professionals, who possess the necessary expertise and are familiar with the applicable regulations.
- ▶ **Do not use whilst tired or under the influence:** This specialised tool must never be used by unauthorised persons as well as by those with restricted authorisation, or by anyone who is tired or under the influence of intoxicating substances.
- ▶ **Read the instructions:** The special tool must be used in accordance with these operating instructions as well as any instructions for accessories, and all instructions, warnings and notes contained therein must be strictly observed.
- ▶ **Comply with applicable safety regulations:** The specialised tool must always be used in accordance with the applicable regulations on health and safety at work, accident prevention and environmental protection.
- ▶ **Wear personal protective equipment:** When using the special tool, you must always wear the required protective equipment, such as safety goggles, protective gloves and safety footwear.
- ▶ **Use only genuine parts:** The special tool must only be used with genuine spare parts and accessories from **GEDORE Automotive**.
- ▶ **Check before use:** Before use, the special tool must be checked for damage, loose parts, as well as unauthorised modifications, and to ensure it is suitable for the intended application.
- ▶ **Regular safety checks:** For safety reasons, the special tool should undergo a safety check every 24 months, carried out by authorised GEDORE-Automotive specialists.
- ▶ **Do not use if damaged or faulty:** The special tool must not be used if it is damaged or has any other faults, and must be checked and repaired before its next use.
- ▶ **Repairs or maintenance must only be carried out by qualified personnel:** For safety reasons, the special tool must only be repaired or serviced by specially trained **GEDORE-Automotive** personnel.
- ▶ **Stop work immediately if handling is unsafe:** The special tool must not be used if it cannot be handled safely; if necessary, consult the instructions or seek assistance from **GEDORE Automotive** if necessary.
- ▶ **Regular cleaning and lubrication:** The specialised tool, in particular its moving parts and the spindle, must be checked regularly for dirt, cleaned if necessary, and treated with approved lubricants.
- ▶ **Do not use power drives:** The special tool must never be used with power drives, but only in accordance with its intended use, i.e. with a manual drive operated by muscle power.
- ▶ **Follow vehicle-specific applications:** When carrying out vehicle-specific applications, the special tool must always be used in accordance with the vehicle manufacturer's instructions and specifications.
- ▶ **Ensure the immediate work area is clear:** The special tool must only be used if there are no unauthorised persons in the immediate work area.
- ▶ **Ensure stability:** The special tool must always be checked to ensure it is stable and secure; in particular, the hydraulic cylinder must be secured to prevent it from falling or being thrown about – for example, by holding it in place, using a safety belt or a mounting device from **GEDORE-Automotive**.
- ▶ **Never exceed the maximal load:** The special tool must never be overloaded or operated with a load exceeding the maximum permitted limit.
- ▶ **Never use for mass production:** The special tool must never be used in mass production, particularly not in processes that are repeated rapidly and carried out at short distances.
- ▶ **Keep a safe distance from rotating parts:** The special tool must only be used whilst wearing close-fitting work clothing; gloves and jewellery must be removed, as well as hair and clothing must be kept away from rotating parts.
- ▶ **Never leave unattended whilst under load:** The special tool must never be left unattended on the vehicle or component, particularly whilst under load.
- ▶ **Avoid subjecting the tool to damaging forces:** The special tool must never be subjected to impacts, clamping or other damaging forces, particularly whilst under load.
- ▶ **Cleaning after use:** After use, the special tool must only be cleaned with a clean, dry cloth; immersion in water, solvents or other cleaning fluids is strictly prohibited.
- ▶ **Environmentally sound disposal:** Specialised tools and packaging materials must always be disposed of in an environmentally sound manner, in accordance with legal requirements; if in any doubt, please contact the local authorities.
- ▶ **Exclusion of liability, warranty and guarantee:** The special tool must always be used in accordance with the safety instructions; in the event of non-compliance or misuse, the user assumes sole responsibility, and **GEDORE-Automotive** excludes any claims for liability, warranty or guarantee.
- ▶ **Disclaimer regarding the documentation:** The special tool and its application are described in detail in these instructions; however, technical changes, errors, omissions, inaccuracies, mistakes, as well as damage or consequences resulting from incorrect application or misuse can never be ruled out.

1.10 Maintenance

Carry out maintenance on the special tool regularly and only when it is unloaded! Inadequate or improper maintenance may cause damage to the special tool and, when used, may result in life-threatening situations, serious injury as well as damage to property.

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 to ensure they move freely and are free from 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 inspected for safety **every 24 months** by authorised **GEDORE Automotive** technicians.

1.11 Troubleshooting

Only carry out troubleshooting on the special tool when it is unloaded!

Problem: The clamping nut (drive nut) is stiff on the spindle of the mechanical drive.

Cause: The clamping nut and spindle are contaminated or insufficiently lubricated, or the wrong lubricant has been used.

Remedy: Clean the clamping nut and spindle, check them for damage and lubricate them **exclusively** with molybdenum disulphide past such as **MOLYKOTE® G-N PLUS Paste** or an equivalent product .

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

Cause: Hydraulic clutch is contaminated or loose.

Solution: Clean and retighten the hydraulic clutch. Top up any missing hydraulic oil (**HLP 32, 46**) in the hand pump.

Problem: The hydraulic hand pump does not build up pressure, or does so only very slowly.

Cause: The pressure relief valve on the hand pump is open, or there is a lack of hydraulic oil.

Solution: Fully close the pressure relief valve on the hand pump and, if necessary, top up the hydraulic oil (**HLP 32, 46**) in the hand pump.

1.12 Care / Storage

ATTENTION

Improper care and storage can cause damage to the specialised tool.

- ▶ **Never** immerse the special tool in water, solvents or any other cleaning fluids.
- ▶ Clean the special tool using **only** a dry, clean cloth.
- ▶ Lubricate the special tool **exclusively** with molybdenum disulphide past, such as **MOLYKOTE® G-N PLUS Paste** or an equivalent product.
- ▶ **Only** use special acid-free oils or greases designed for tool maintenance to protect the special tool.
- ▶ **It is essential that** you 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 any damage, loose parts or unauthorised modifications are found on the special tool, it must no longer be used for safety reasons!
- ▶ Repairs must only be carried out by specially trained technical staff at **GEDORE-Automotive**!
- ▶ For this specialised tool, please use **only** genuine **GEDORE Automotive** spare parts and accessories!

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

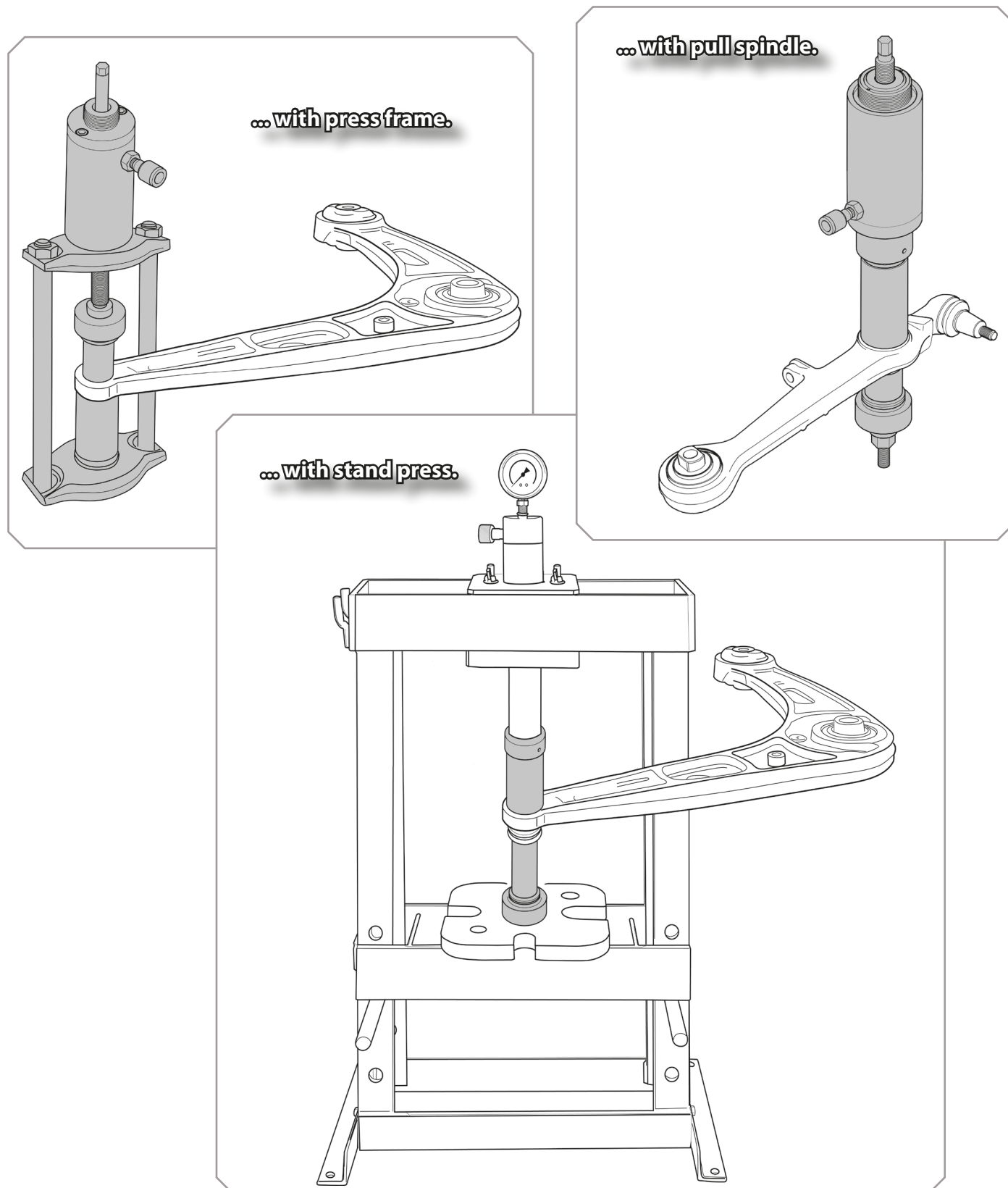
1.14 Environmentally sound disposal

Dispose of the specialised tools and packaging materials in an environmentally responsible manner, in accordance with legal requirements. If necessary, contact your local authority to enquire about environmentally friendly disposal options.

2. PRODUCT DESCRIPTION

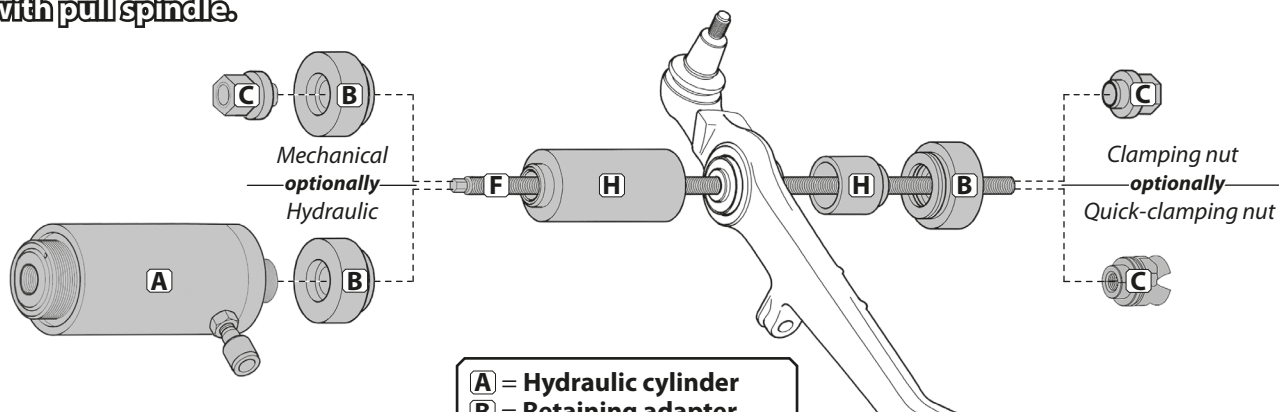
2.1 - KL-0039-.. Silent bloc/joint bearing tool series

The modular system of the **KL-0039-..Silent bloc/joint bearing tool series** enables the forcing out and in of silent blocs/joint bearings and support joints in **three** different ways, for example...



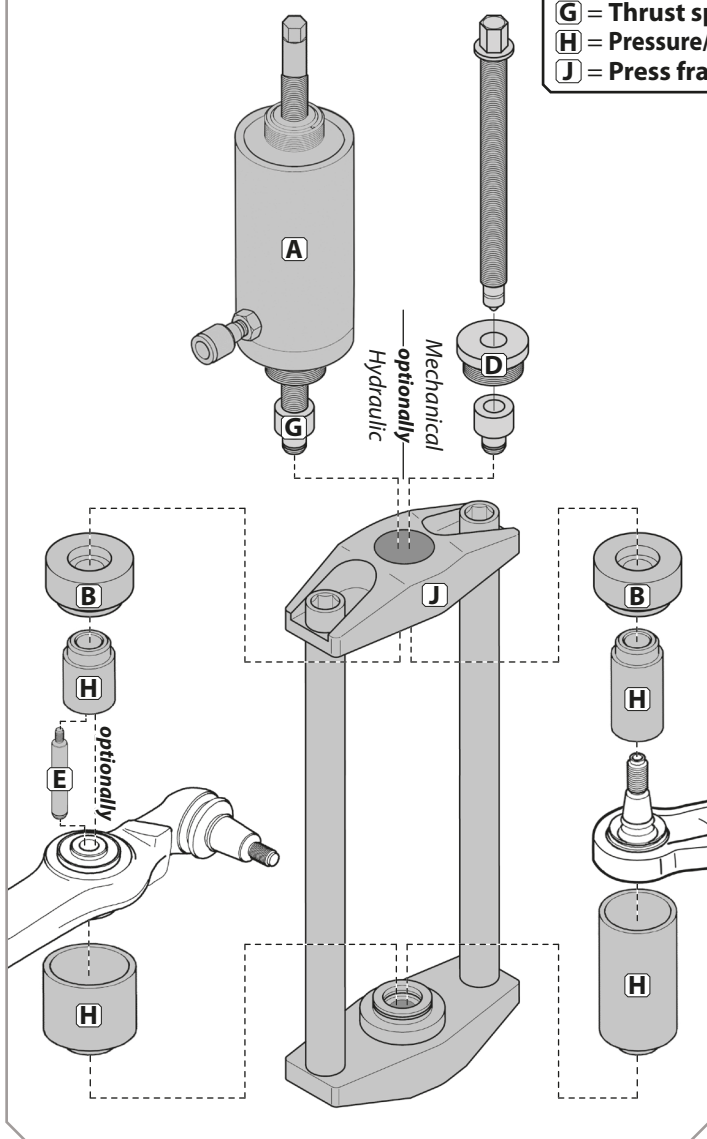
Depending on the chosen method, the components required for this must be assembled accordingly, for example ...

...with pull spindle.

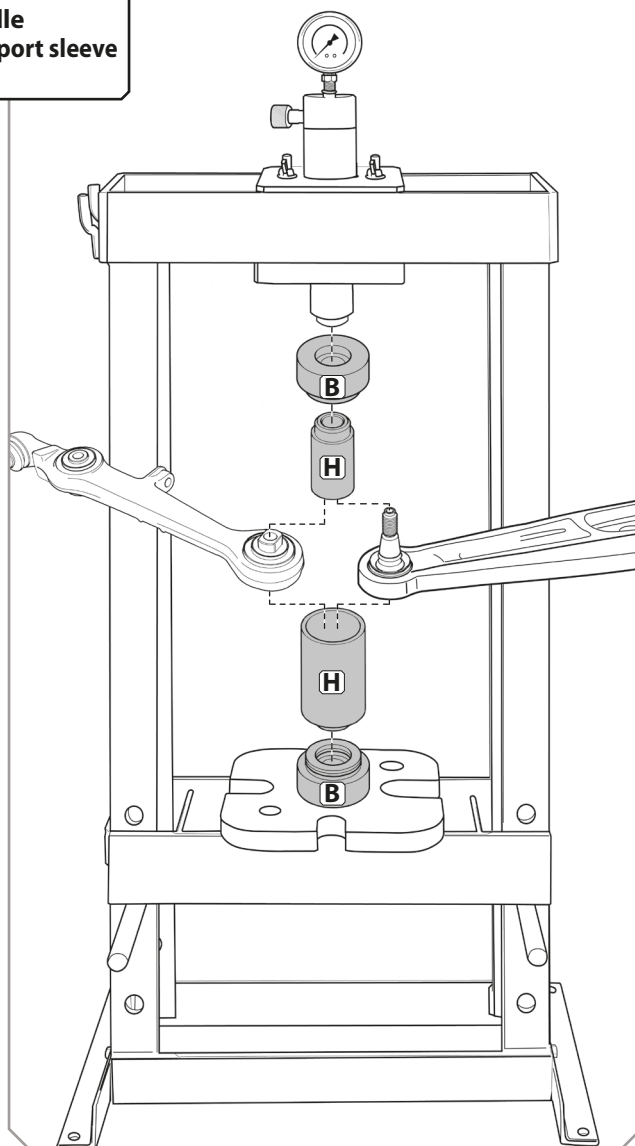


- A** = Hydraulic cylinder
- B** = Retaining adapter
- C** = Clamping nut
- D** = Mechanical drive
- E** = Guide bolt
- F** = Pull spindle
- G** = Thrust spindle
- H** = Pressure/support sleeve
- J** = Press frame

...with press frame.



...with stand press.



2.2 Scope of delivery / Single parts overview / Specifications

① This table shows the basic components of the **KL-0039-..Silent bloc/joint bearing series**.

Other accessories see GEDORE Automotive catalogue!

Silent bloc/joint bearing tool sets

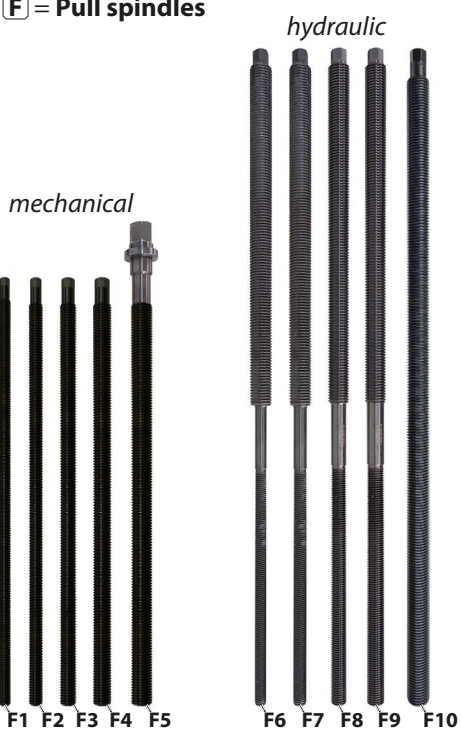
		KL-0039-1161 E	KL-0039-190 EA	KL-0039-413 K	KL-0039-160 E	KL-0039-1601	KL-0039-170 E
Foam insert...	Item						
KL-4999-1310 - Foam insert	-		•				
KL-4999-1311 - Foam insert	-						•
KL-4999-1312 - Foam insert	-				•		
KL-4999-1318 - Foam insert	-	•					
Plastic case...							
KL-0039-4139 - Plastic case	-			•			
KL-4999-1391 - Plastic case	-						
Molybdenum disulphide paste...							
KL-0014-0030 - Molybdenum disulphide paste	-		•	•			
Hydraulic cylinder...							
KL-0040-2500 - Hydraulic cylinder (max. 17t)	A						
Retaining adapter...							
KL-0039-1002 - Retaining adapter for clamping nut + thrust spindle	B1		•	•			
KL-0039-1003 - Retaining adapter for hydraulic cylinder	B2		•				
KL-0039-1011 - Retaining adapter for mechanical spindle	B3		•	•			
Clamping nut...							
KL-0039-1910-2 - Clamping nut M10	C1		• 2x	• 2x			
KL-0039-1912-2 - Clamping nut M12	C2		• 2x	• 2x			
KL-0039-1914-2 - Clamping nut M14	C3		• 2x	• 2x			
KL-0039-1916-2 - Clamping nut M16	C4			• 2x			
KL-0040-3009 - Clamping nut M20	C5		•				
KL-0039-2110-2 - Quick-clamping nut M10	C6						
KL-0039-2112-2 - Quick-clamping nut M12	C7						
KL-0039-2114-2 - Quick-clamping nut M14	C8						
KL-0039-2116-2 - Quick-clamping nut M16	C9						
KL-0039-2120-2 - Quick-clamping nut M20	C10						
Mechanical drive...							
KL-0174-831 - Mechanical drive set	D		•	•			
Guide bolt...							
KL-0039-1610 - Guide bolt, 10mm dia., short	E1					•	
KL-0039-1612 - Guide bolt, 12mm dia., short	E2					•	
KL-0039-1614 - Guide bolt, 14mm dia., short	E3					•	
KL-0039-1616 - Guide bolt, 16mm dia., short	E4					•	
KL-0039-1710 - Guide bolt, 10mm dia., long	E5						
KL-0039-1712 - Guide bolt, 12mm dia., long	E6						
KL-0039-1714 - Guide bolt, 14mm dia., long	E7						
KL-0039-1716 - Guide bolt, 16mm dia., long	E8						
Pull spindle...							
KL-0039-2010-1 - Pull spindle M10, mechanical (max. 5t)	F1		•	•			
KL-0039-2012-1 - Pull spindle M12, mechanical (max. 7t)	F2		•	•			
KL-0039-2014-1 - Pull spindle M14, mechanical (max. 9t)	F3			•			
KL-0039-2016-1 - Pull spindle M16, mechanical (max. 13t)	F4			•			
KL-0039-2030 - Pull spindle M20, mechanical (max. 20t)	F5		•				
KL-0039-1910-1 - Pull spindle M10, hydraulic (max. 5t)	F6						
KL-0039-1912-1 - Pull spindle M12, hydraulic (max. 7t)	F7		•				
KL-0039-1914-1 - Pull spindle M14, hydraulic (max. 9t)	F8		•				
KL-0039-1916-1 - Pull spindle M16, hydraulic (max. 13t)	F9						
KL-0039-1920-1 A - Pull spindle M20, hydraulic (max. 20t)	F10		•				
Thrust spindle							
KL-0039-1931 - Thrust spindle M20 x 405mm (max. 20t)	G1						
KL-0041-5041 - Thrust nut M20	G2		•				
Press frame...							
KL-0039-1140 - Press frame, light, short, 275mm (max. 12t)	J1	•					
KL-0039-1140 V - Press frame, reinforced, short, 275mm (max. 17t)	J2	•					
KL-0039-1153 - Pull rod M18, long, 375mm	J3	• 2x					

...Continued on the table on the following page!

		Silent bloc/joint bearing tool sets					
		KL-0039-1161 E	KL-0039-190 EA	KL-0039-413 K	KL-0039-160 E	KL-0039-1601	KL-0039-170 E
Pressure/supporting sleeves... (max. 17t)	Item						
KL-0039-1630 - Pressure/supporting sleeve 30/22mm dia., 45mm, short	H1			•	•	•	
KL-0039-1632 - Pressure/supporting sleeve 32/24mm dia., 45mm, short	H2				•	•	
KL-0039-1634 - Pressure/supporting sleeve 34/26mm dia., 45mm, short	H3				•	•	
KL-0039-1636 - Pressure/supporting sleeve 36/ 28mm dia., 45mm, short	H4				•	•	
KL-0039-1638 - Pressure/supporting sleeve 38/30mm dia., 45mm, short	H5				•	•	
KL-0039-1640 - Pressure/supporting sleeve 40/32mm dia., 45mm, short	H6			•	•	•	
KL-0039-1642 - Pressure/supporting sleeve 42/34mm dia., 45mm, short	H7				•	•	
KL-0039-1644 - Pressure/supporting sleeve 44/36mm dia., 45mm, short	H8				•	•	
KL-0039-1646 - Pressure/supporting sleeve 46/38mm dia., 45mm, short	H9			•	•	•	
KL-0039-1648 - Pressure/supporting sleeve 48/40mm dia., 45mm, short	H10				•	•	
KL-0039-1650 - Pressure/supporting sleeve 50/42mm dia., 45 mm, short	H11			•	•	•	
KL-0039-1652 - Pressure/supporting sleeve 52/44mm dia., 45mm, short	H12				•	•	
KL-0039-1654 - Pressure/supporting sleeve 54/46mm dia., 45mm, short	H13			•	•	•	
KL-0039-1656 - Pressure/supporting sleeve 56/48mm dia., 45mm, short	H14				•	•	
KL-0039-1658 - Pressure/supporting sleeve 58/50mm dia., 45mm, short	H15			•	•	•	
KL-0039-1660 - Pressure/supporting sleeve 60/52mm dia., 45mm, short	H16				•	•	
KL-0039-1662 - Pressure/supporting sleeve 62/54mm dia., 45mm, short	H17				•	•	
KL-0039-1664 - Pressure/supporting sleeve 64/56mm dia., 45mm, short	H18			•	•	•	
KL-0039-1666 - Pressure/supporting sleeve 66/58mm dia., 45mm, short	H19			•	•	•	
KL-0039-1668 - Pressure/supporting sleeve 68/60mm dia., 45mm, short	H20				•	•	
KL-0039-1670 - Pressure/supporting sleeve 70/62mm dia., 45mm, short	H21			•	•		
KL-0039-1672 - Pressure/supporting sleeve 72/64mm dia., 45mm, short	H22			•	•		
KL-0039-1674 - Pressure/supporting sleeve 74/66mm dia., 45mm, short	H23				•		
KL-0039-1676 - Pressure/supporting sleeve 76/68mm dia., 45mm, short	H24				•		
KL-0039-1678 - Pressure/supporting sleeve 78/70mm dia., 45mm, short	H25				•		
KL-0039-1680 - Pressure/supporting sleeve 80/72mm dia., 45 mm, short	H26				•		
KL-0039-1682 - Pressure/supporting sleeve 82/74mm dia., 45 mm, short	H27				•		
KL-0039-1684 - Pressure/supporting sleeve 84/76mm dia., 45 mm, short	H28				•		
KL-0039-1686 - Pressure/supporting sleeve 86/78mm dia., 45mm, short	H29				•		
KL-0039-1688 - Pressure/supporting sleeve 88/80mm dia., 45mm, short	H30				•		
KL-0039-1690 - Pressure/supporting sleeve 90/82mm dia., 45mm, short	H31				•		
KL-0039-1730 - Pressure/supporting sleeve 30/22mm dia., 115mm, long	H32						•
KL-0039-1732 - Pressure/supporting sleeve 32/24mm dia., 115mm, long	H33						•
KL-0039-1734 - Pressure/supporting sleeve 34/26mm dia., 115mm, long	H34						•
KL-0039-1736 - Pressure/supporting sleeve 36/28mm dia., 115mm, long	H35						•
KL-0039-1738 - Pressure/supporting sleeve 38/30mm dia., 115mm, long	H36						•
KL-0039-1740 - Pressure/supporting sleeve 40/32mm dia., 115mm, long	H37						•
KL-0039-1742 - Pressure/supporting sleeve 42/34mm dia., 115mm, long	H38						•
KL-0039-1744 - Pressure/supporting sleeve 44/36mm dia., 115mm, long	H39			•			•
KL-0039-1746 - Pressure/supporting sleeve 46/38mm dia., 115mm, long	H40						•
KL-0039-1748 - Pressure/supporting sleeve 48/40mm dia., 115mm, long	H41						•
KL-0039-1750 - Pressure/supporting sleeve 50/42mm dia., 115mm, long	H42			•			•
KL-0039-1752 - Pressure/supporting sleeve 52/44mm dia., 115mm, long	H43						•
KL-0039-1754 - Pressure/supporting sleeve 54/46mm dia., 115mm, long	H44						•
KL-0039-1756 - Pressure/supporting sleeve 56/48mm dia., 115mm, long	H45			•			•
KL-0039-1758 - Pressure/supporting sleeve 58/50mm dia., 115mm, long	H46						•
KL-0039-1760 - Pressure/supporting sleeve 60/52mm dia., 115mm, long	H47						•
KL-0039-1762 - Pressure/supporting sleeve 62/54mm dia., 115mm, long	H48			•			•
KL-0039-1764 - Pressure/supporting sleeve 64/56mm dia., 115mm, long	H49						•
KL-0039-1766 - Pressure/supporting sleeve 66/58mm dia., 115mm, long	H50			•			•
KL-0039-1768 - Pressure/supporting sleeve 68/60mm dia., 115mm, long	H51						•
KL-0039-1770 - Pressure/supporting sleeve 70/62mm dia., 115mm, long	H52			•			•
KL-0039-1772 - Pressure/supporting sleeve 72/64mm dia., 115mm, long	H53						•
KL-0039-1774 - Pressure/supporting sleeve 74/66mm dia., 115mm, long	H54			•			•
KL-0039-1776 - Pressure/supporting sleeve 76/68mm dia., 115mm, long	H55						•
KL-0039-1778 - Pressure/supporting sleeve 78/70mm dia., 115mm, long	H56			•			•
KL-0039-1780 - Pressure/supporting sleeve 80/72mm dia., 115mm, long	H57						•
KL-0039-1782 - Pressure/supporting sleeve 82/74mm dia., 115mm, long	H58			•			•
KL-0039-1784 - Pressure/supporting sleeve 84/76mm dia., 115mm, long	H59			•			•
KL-0039-1786 - Pressure/supporting sleeve 86/78mm dia., 115mm, long	H60						•
KL-0039-1788 - Pressure/supporting sleeve 88/80mm dia., 115mm, long	H61						•
KL-0039-1790 - Pressure/supporting sleeve 90/82mm dia., 115mm, long	H62						•

A = Hydraulic cylinder**B** = Retaining adapter**C** = Clamping nuts

Quick-clamping nuts

D = Mechanical drive kit**E** = Guide bolts**F** = Pull spindles

mechanical

hydraulic

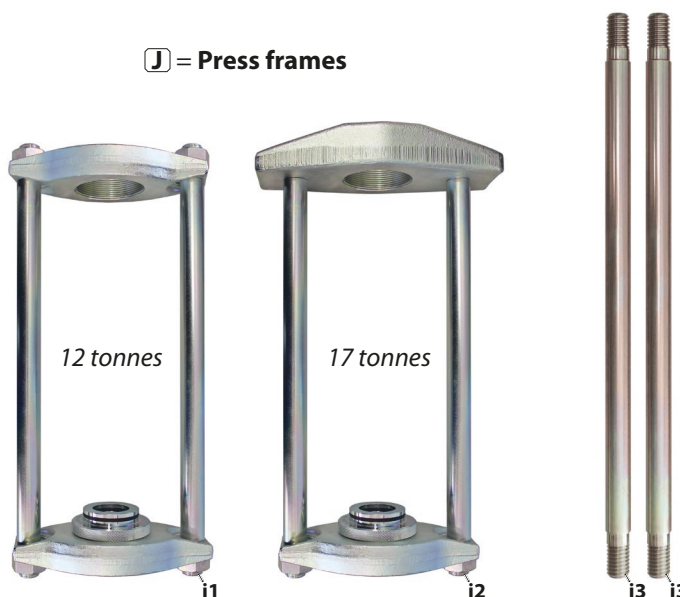
G = Thrust spindles

Additional pull spindle pos. [F10] required!

H = Pressure/supporting sleeves

short, 45mm

long, 115mm

J = Press frames

12 tonnes

17 tonnes

3. PREPARATION

⚠ WARNING

Misuse or overloading the silent bloc/joint bearing tool can cause it to slip, break and thus drop or be hurled about. This can cause **DEATH** or **SEVERE INJURIES!**

- ✔ **Prior to using** the silent bloc/joint bearing tool, read and understand **all** safety instructions and warnings listed in **Chapter 1** and **always observe** them **for safe use!**
- ✔ Use the silent bloc/joint bearing tool **as intended** and **always** carry out maintenance and repair work in compliance with the regulations on occupational safety and accident prevention as well as the vehicle manufacturer's instructions!
- ✔ **Before each use**, check the silent bloc/joint bearing tool **carefully** for damage, loose parts, or unauthorised modifications. **Never** use it if you notice any such deficiencies!
- ✔ **Always** wear your personal protective equipment (*such as safety goggles, protective gloves, safety shoes*) during work!

3.1 Checking the scope of delivery

Prior to preparing the silent bloc/joint bearing tool, check that all parts of the scope of delivery are available (*see chapter 2.*), and follow the instructions below.

3.2 Assembling drive parts

⚠ WARNING

Using a machine-operated drive can cause the silent bloc/joint bearing tool to slip, break, and thus drop or fling around. This can cause **DEATH** or **SEVERE INJURIES!**

- ✔ **Never** use the silent bloc/joint bearing tool with a machine-operated drive. Drive it **exclusively** by hand with muscle power with a manual drive, or a manually driven **GEDORE Automotive** hydraulic cylinder/pump combination with pressure gauge for safe pressure control!
- ✔ **Never** use the silent bloc/joint bearing tool with an impulse or impact wrench!

1. Assemble the required drive parts for the silent bloc/joint bearing tool as shown in **📷 1**.

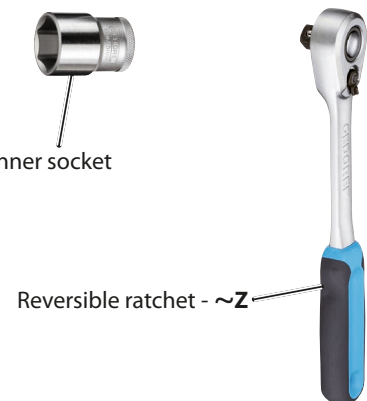
① *For other pressure plates see the GEDORE Automotive catalogue.*

📷 1: Required drive parts

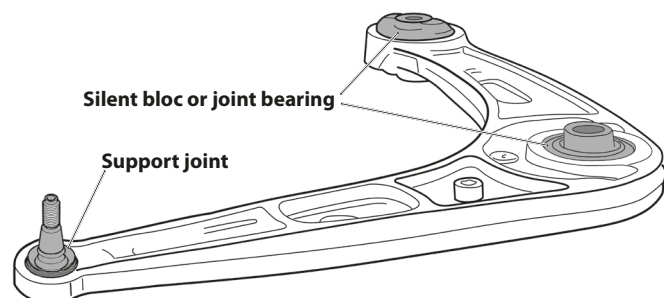
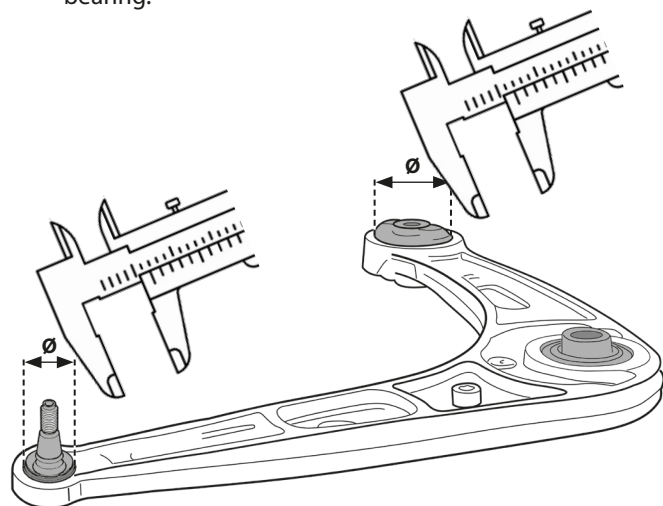
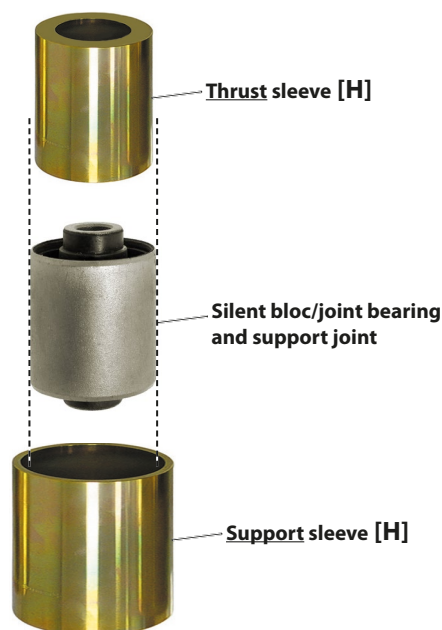
HYDRAULIC



(alternatively) MECHANICAL



~To be used similarly like the hydraulic drive parts.

📷 2: Preparing the vehicle

📷 3: Measure the outside diameter on the silent bloc or joint bearing.

📷 4: Select the matching supporting sleeve.

3.3 Preparing the vehicle

1. Safely lift the vehicle and prepare all necessary parts for the following work in accordance with the manufacturer's instructions.

3.4 Determining pressure sleeve and support sleeve

Depending on the type and diameter of the silent bloc/joint bearing or support joint, a suitable pressure and support sleeve must first be determined.

1. First measure the **outer** diameter of the silent bloc/joint bearing or support joint. 📷 3

CAUTION

The thrust sleeve [H..] can be damaged when forcing out the silent bloc/joint bearing or support joint!

- ▮ The **outer** diameter of the pressure sleeve must not be **too large**, otherwise it can get stuck in the bearing hole when forcing out the silent bloc/joint bearing or support joint!
2. Based on the **outer** diameter of the silent / spherical bearing or suspension joint, select a suitable **thrust sleeve [H..]** with an **outer** diameter of **approx. 2 - 4mm smaller** than 📷 4.

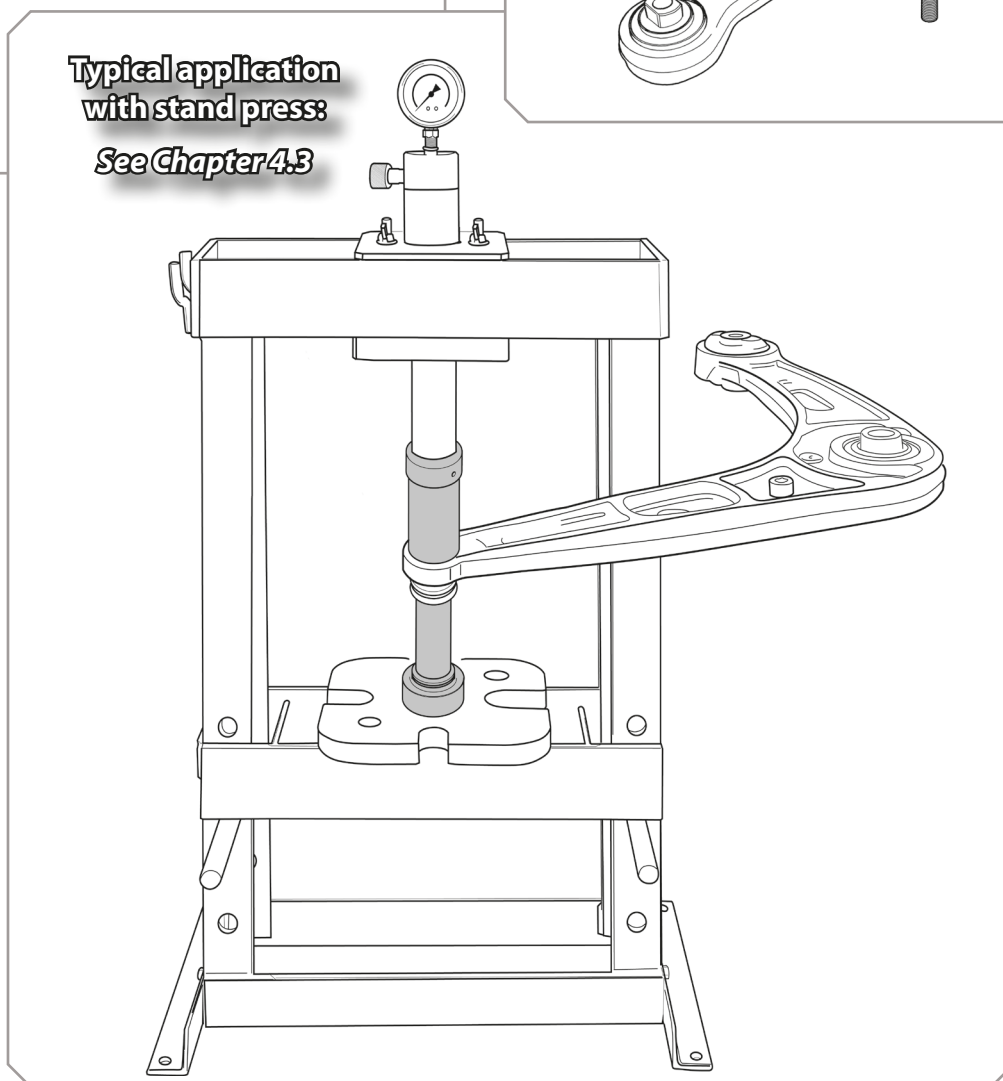
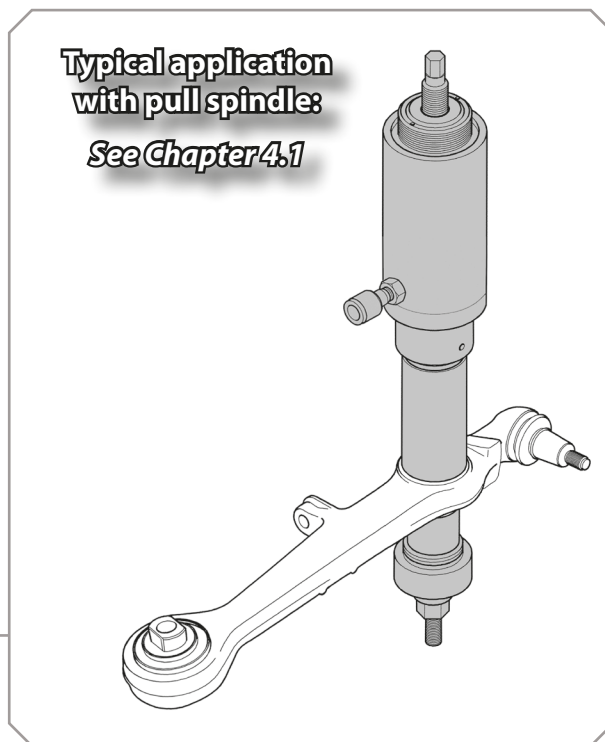
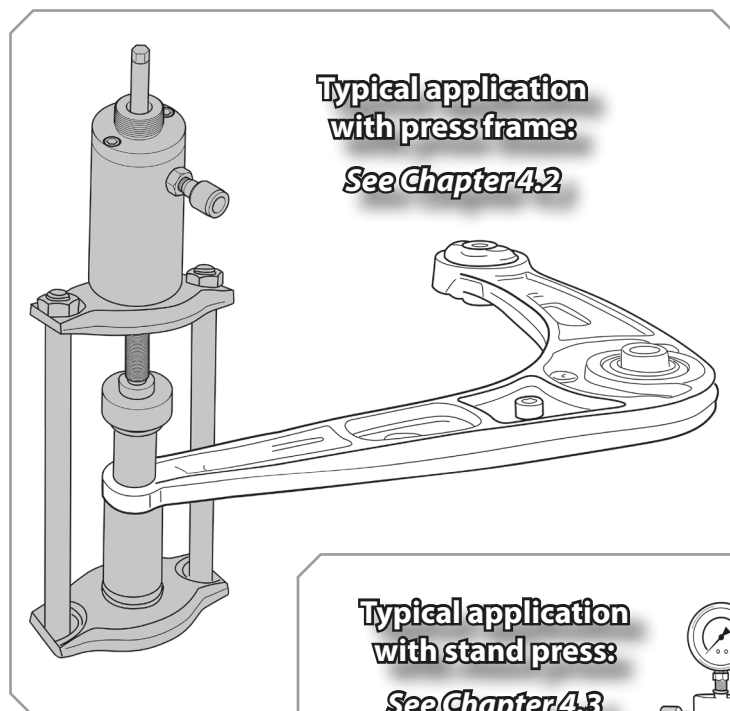
CAUTION

The supporting sleeve [H..] can be damaged when forcing out the silent bloc/joint bearing or support joint!

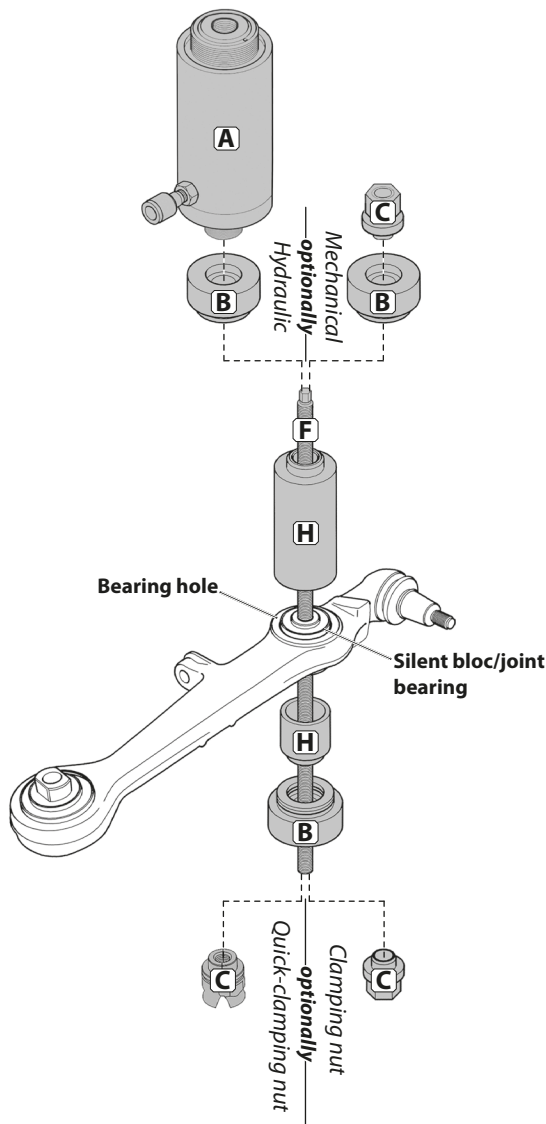
- ▮ The **inner** diameter of the pressure sleeve must not be **too small**; otherwise it can get stuck in the bearing hole when forcing out the silent bloc/joint bearing or support joint!
3. Based on the **outer** diameter of the silent bloc/joint bearing or suspension joint, select a suitable **supporting sleeve [H..]** with an **inner** diameter of **approx. 2 - 4mm larger** than 📷 4.

4. TYPICAL APPLICATIONS

These application examples describe the forcing out and forcing in of silent bloc/joint bearings and support joints in **three** different ways. This process follows the same principle, both mechanically and hydraulically.



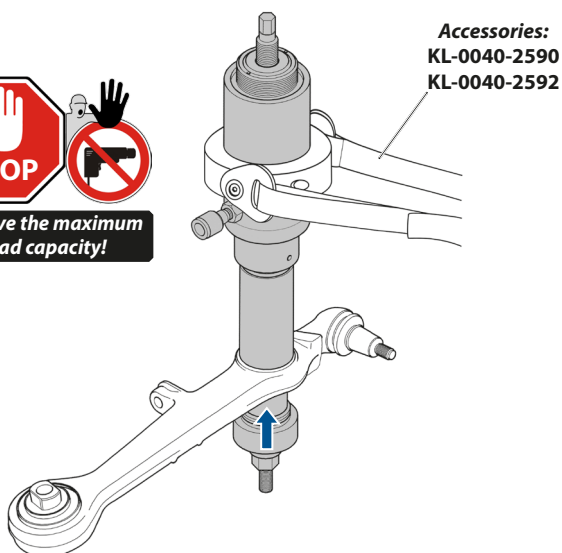
❶5: Assemble the silent bloc/joint bearing tool.



❶6: Force out the silent bloc/joint bearing.



Observe the maximum load capacity!



4.1 Forcing out and in by means of pull spindle

This typical application describes the hydraulic forcing out and forcing in of a silent bloc/joint using with a pull spindle. The process follows the same principle, both mechanically and hydraulically.

Forcing out the silent bloc/joint bearing.

CAUTION

The press sleeve and the supporting sleeve [H..] can be damaged when forcing out the silent bloc/joint bearing!

- The press sleeve [H..] must rest with a right angle on at least two opposite surfaces on the silent bloc/joint bearing or support joint!
- The supporting sleeve [H..] must rest with a right angle on at least two opposite surfaces above the bearing hole!

1. Mount the silent bloc/joint bearing tool with all the required components as shown in **❶5**.

⚠ WARNING

There is the risk of the silent bloc/joint bearing tool breaking when a machine-operated drive is used. Parts flinging around can cause **DEATH** or **SEVERE INJURIES**.

- Use the silent bloc/joint bearing tool **exclusively** with a manual drive or a manually operated **GEDORE Automotive** hydraulic cylinder / pump combination with a pressure gauge for reliable pressure control!
2. Connect the hydraulic pump [Z] to the hydraulic cylinder [A].

⚠ WARNING

The silent bloc/joint bearing tool can drop when being used! This can cause **SEVERE INJURIES** of the head or feet!

- Before use, **always** secure the silent bloc/joint bearing tool against falling off the vehicle or axle, e.g. using the safety retaining belt available as an accessory - **KL-0040-2590** or **KL-0040-2592**!

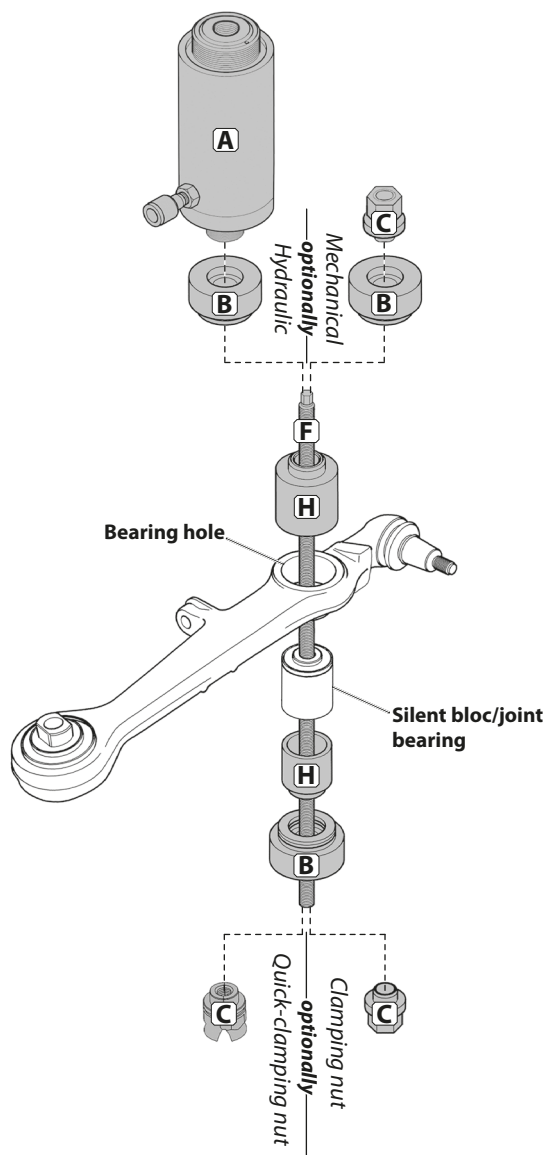
⚠ WARNING

When forcing out the silent bloc/joint bearing, there is a risk of the pull spindle [F..] breaking and parts being hurled about. This can cause **DEATH** or **SEVERE INJURIES**.

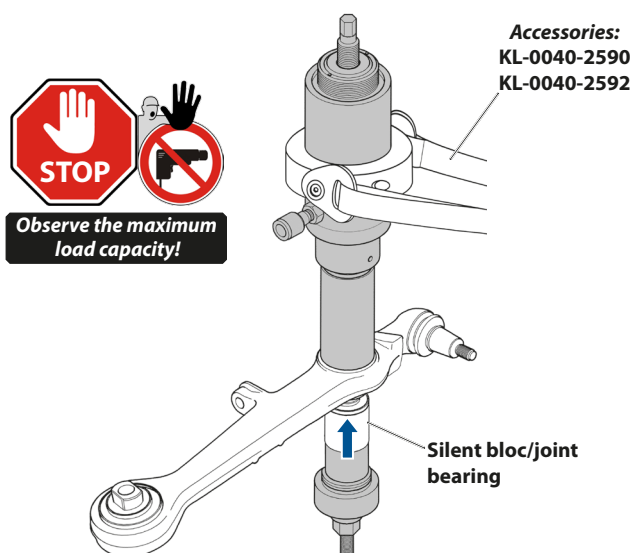
- **Never** exceed the **max. load** of the pull spindle [F..] or the hydraulic cylinder [A..]!
 - **Constantly** watch the pressure on the pressure gauge at the hydraulic pump [Z] while forcing off.
 - While forcing out, **never** stand in the axial extension of the pull spindle [F..].
3. While operating the hydraulic pump [Z], watch the pressure on the pressure gauge, and force the silent bloc/joint bearing out. **❶6**

- ❶ The maximum stroke of the hydraulic cylinder [A] is 50mm! As soon as this value is reached: Interrupt the forcing process, relieve the pressure at the hydraulic pump [Z], re-tighten the clamping nut [C..] until it is fully applied, and continue the forcing process.

7: Assemble the silent bloc/joint bearing tool.



8: Force in the silent bloc/joint bearing.



Forcing in the silent bloc/joint bearing

CAUTION

The press sleeve and the supporting sleeve [H..] can be damaged when forcing in the silent bloc/joint bearing!

▀ The press sleeve [H..] must rest with a right angle on at least two opposite surfaces on the silent bloc/joint bearing or support joint!

▀ The supporting sleeve [H..] must rest with a right angle on at least two opposite surfaces above the bearing hole!

1. Mount the silent bloc/joint bearing tool with all the required components and the new silent bloc/joint bearing as shown in 7.

CAUTION

The silent bloc/joint bearing can be damaged during the press-in process!

▀ Observe the correct installation position of the silent bloc/joint bearing according to the manufacturer's instructions!

▀ Press in the silent bloc/joint bearing **always** with a right angle to the bearing hole!

WARNING

The silent bloc/joint bearing tool can drop when being used! This can cause **SEVERE INJURIES** of the head or feet!

▀ Before use, **always** secure the silent bloc/joint bearing tool against falling off the vehicle or axle, e.g. using the safety retaining belt available as an accessory - KL-0040-2590 or KL-0040-2592!

WARNING

When forcing off the silent bloc/joint bearing, there is a risk of the pull spindle breaking and parts flinging around. This can cause **DEATH** or **SEVERE INJURIES**.

▀ **Never** exceed the **max. load** of the pull spindle [F..] or the hydraulic cylinder [A..]!

▀ **Constantly** watch the pressure on the pressure gauge at the hydraulic pump [Z] while forcing off.

▀ While forcing out, **never** stand in the axial extension of the pull spindle [F..].

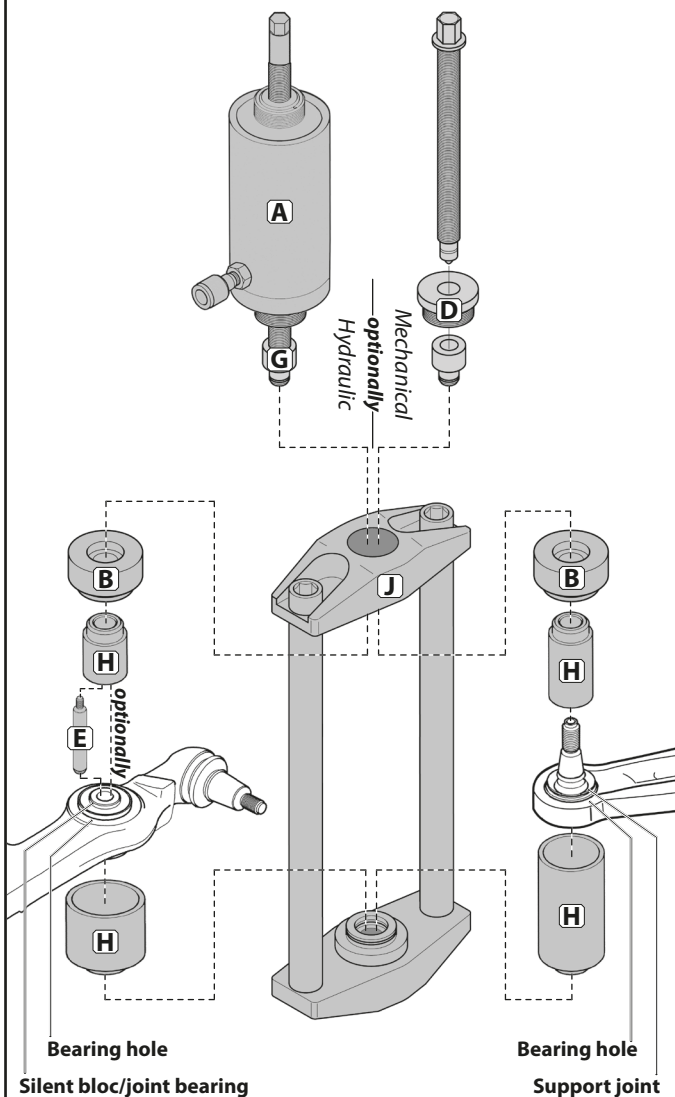
2. While operating the hydraulic pump [Z], watch the pressure on the pressure gauge, and force the silent bloc/joint bearing out according to the manufacturer's instructions.

8

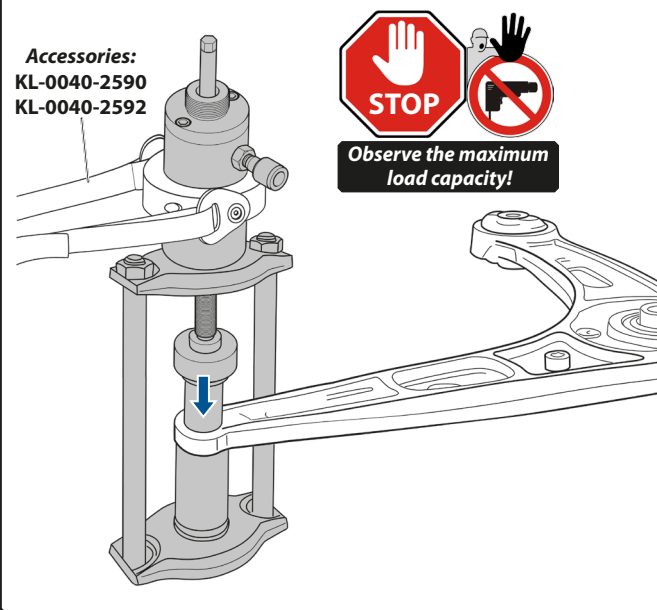
① The maximum stroke of the hydraulic cylinder [A] is 50mm! As soon as this value is reached: Interrupt the forcing process, relieve the pressure at the hydraulic pump [Z], re-tighten the clamping nut [C..] until it is fully applied, and continue the forcing process.

3. Relieve and disassemble the silent bloc/joint bearing tool, and carry out further work according to the manufacturer's instructions.

❶9: Assemble the silent bloc/joint bearing tool.



❶10: Press out the silent bloc/joint bearing and support joint.



4.2 Forcing out and in by means of a press frame

This typical application describes the hydraulic forcing out and forcing in of a silent bloc/joint bearing and support joint using a press frame. The process follows the same principle, both mechanically and hydraulically.

Forcing out the silent bloc/joint bearing and support joint.

CAUTION

The press sleeve and the supporting sleeve [H..] can be damaged when forcing out the silent bloc/joint bearing!

► The press sleeve [H..] must rest with a right angle on at least two opposite surfaces on the silent bloc/joint bearing or support joint!

► The supporting sleeve [H..] must rest with a right angle on at least two opposite surfaces above the bearing hole!

1. Mount the silent bloc/joint bearing tool with all the required components as shown in **❶9**.

WARNING

There is the risk of the silent bloc/joint bearing tool breaking when a machine-operated drive is used. Parts flinging around can cause **DEATH** or **SEVERE INJURIES**.

► Use the silent bloc/joint bearing tool **exclusively** with a manual drive or a manually operated **GEDORE Automotive** hydraulic cylinder / pump combination with a pressure gauge for reliable pressure control!

2. Connect the hydraulic pump [Z] to the hydraulic cylinder [A].

WARNING

The silent bloc/joint bearing tool can drop when being used! This can cause **SEVERE INJURIES** of the head or feet!

► Before use, **always** secure the silent bloc/joint bearing tool against falling off the vehicle or axle, e.g. using the safety retaining belt available as an accessory - **KL-0040-2590** or **KL-0040-2592**!

WARNING

When forcing out the silent bloc/joint bearing or support joint there is a risk of the pressure spindle [G..] breaking and parts being hurled about. This can cause **DEATH** or **SEVERE INJURIES**.

► **Never** exceed the **max. load** of the pressure spindle [G..], the hydraulic cylinder [A..], and the press frame [J..]!

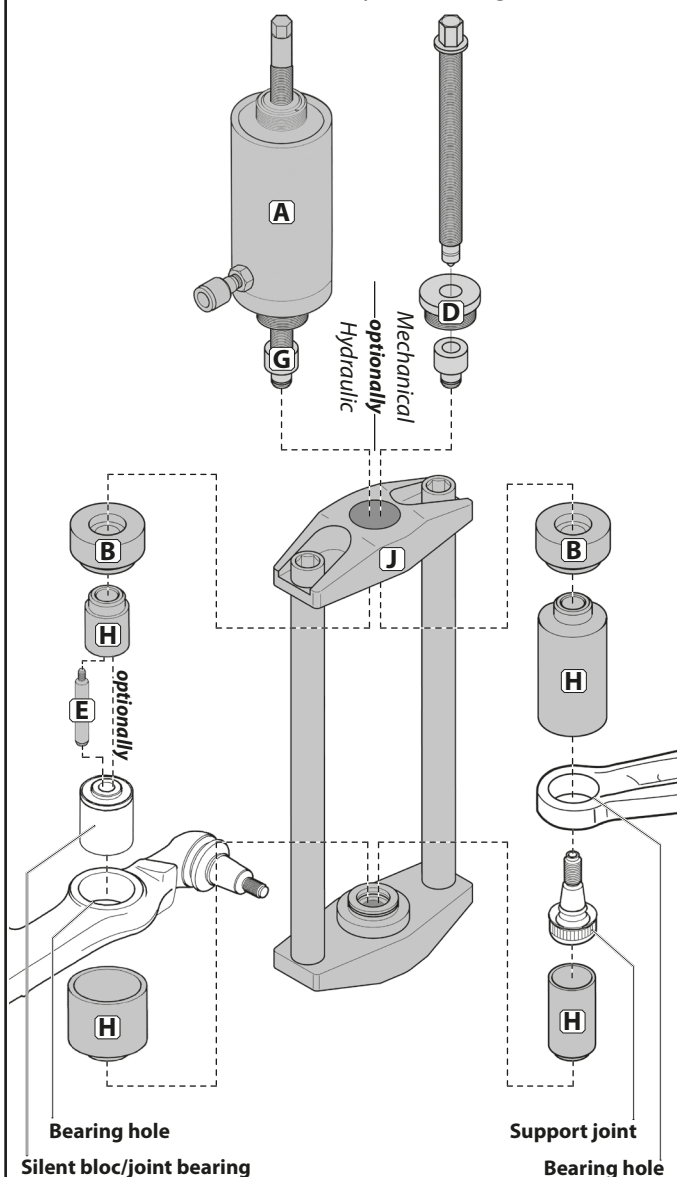
► **Constantly** watch the pressure on the pressure gauge at the hydraulic pump [Z] while forcing off.

► While forcing out, **never** stand in the axial extension of the press frame [J..].

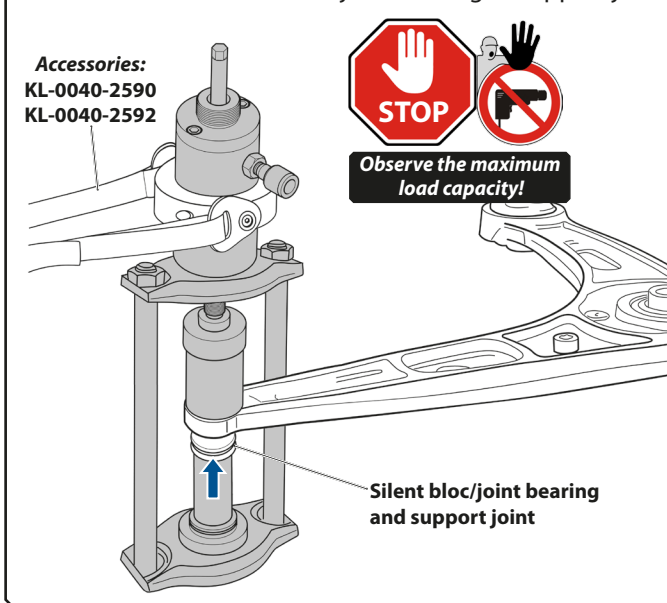
3. While operating the hydraulic pump [Z], watch the pressure on the pressure gauge, and force the silent bloc/joint bearing or support joint out. **❶10**

❶ The maximum stroke of the hydraulic cylinder [A] is 50mm! As soon as this value is reached: Interrupt the forcing process, relieve the pressure at the hydraulic pump [Z], retighten the pressure spindle [G..] until it is fully applied, and continue the forcing process.

❶ 11: Assemble the silent bloc/joint bearing tool.



❶ 12: Press in the silent bloc/joint bearing or support joint.



Forcing in the silent bloc/joint bearing or support joint

CAUTION

The press sleeve and the supporting sleeve [H..] can be damaged when forcing in the silent bloc/joint bearing or support joint!

- ▀ The press sleeve [H..] must rest with a right angle on at least two opposite surfaces on the silent bloc/joint bearing or support joint!
- ▀ The supporting sleeve [H..] must rest with a right angle on at least two opposite surfaces above the bearing hole!

1. Mount the silent bloc/joint bearing tool with all the required components and the new silent bloc/joint bearing or support joint as shown in **❶ 11**.

CAUTION

The silent bloc/joint bearing or support joint can be damaged during the press-in process!

- ▀ Observe the correct installation position of the silent bloc/joint bearing or support joint according to the manufacturer's instructions!
- ▀ Press in the silent bloc/joint bearing or support joint **always** with a right angle to the bearing hole!

⚠ WARNING

The silent bloc/joint bearing tool can drop when being used! This can cause **SEVERE INJURIES** of the head or feet!

- ▀ Before use, **always** secure the silent bloc/joint bearing tool against falling off the vehicle or axle, e.g. using the safety retaining belt available as an accessory - **KL-0040-2590** or **KL-0040-2592**!

⚠ WARNING

When forcing in the silent bloc/joint bearing or support joint, there is a risk of the pressure spindle [G..] breaking and parts being hurled about. This can cause **DEATH** or **SEVERE INJURIES**.

- ▀ **Never** exceed the **max. load** of the pressure spindle [G..], the hydraulic cylinder [A..], and the press frame [J..]!

- ▀ **Constantly** watch the pressure on the pressure gauge at the hydraulic pump [Z] while forcing off.

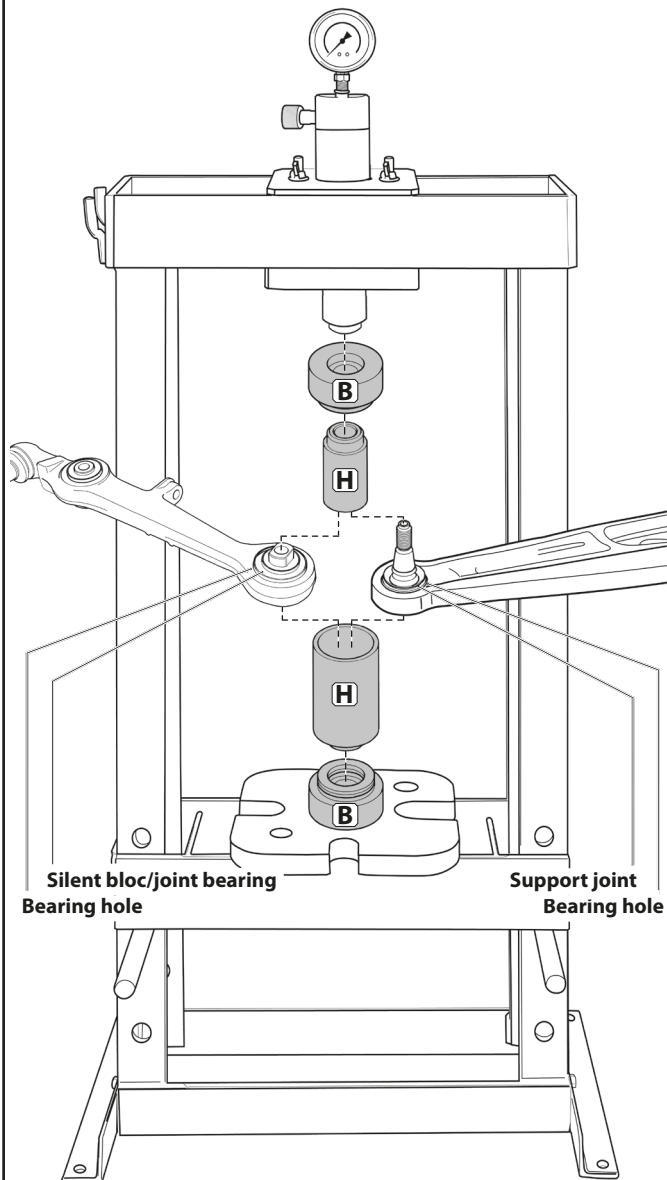
- ▀ While forcing out, **never** stand in the axial extension of the press frame [J..].

2. While operating the hydraulic pump [Z], watch the pressure on the pressure gauge, and force the silent bloc/joint bearing in according to the manufacturer's instructions. **❶ 12**

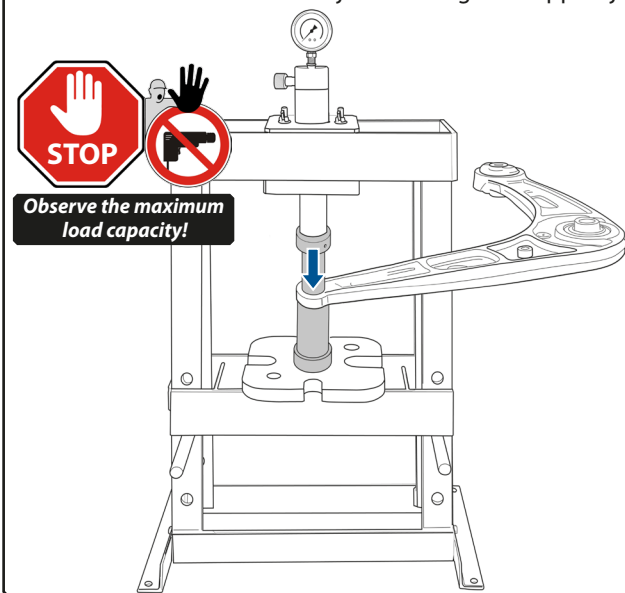
❶ The maximum stroke of the hydraulic cylinder [A] is 50mm! As soon as this value is reached: Interrupt the forcing process, relieve the pressure at the hydraulic pump [Z], re-tighten the pressure spindle [G..] until it is fully applied, and continue the forcing process.

3. Relieve and disassemble the silent bloc/joint bearing tool, and carry out further work according to the manufacturer's instructions.

13: Assemble the silent bloc/joint bearing tool.



14: Press out the silent bloc/joint bearing and support joint.



4.3 Forcing out and in by means of a stand press

This typical application describes the hydraulic forcing out and forcing in of a silent bloc/joint bearing or support joint using a stand press.

Forcing out the silent bloc/joint bearing and support joint

CAUTION

The press sleeve and the supporting sleeve [H..] can be damaged when forcing out the silent bloc/joint bearing!

► The press sleeve [H..] must rest with a right angle on at least two opposite surfaces on the silent bloc/joint bearing or support joint!

► The supporting sleeve [H..] must rest with a right angle on at least two opposite surfaces above the bearing hole!

1. Insert all the required components of the silent bloc/joint bearing tool into a stand press as shown in **13**.

WARNING

There is the risk of the silent bloc/joint bearing tool breaking when a machine-operated drive is used. Parts flinging around can cause **DEATH** or **SEVERE INJURIES**.

► **Only** use the silent bloc/articulated bearing tool via a manually operated stand press, with pressure gauge for safe pressure control!

WARNING

When forcing out the silent bloc/joint bearing or support joint there is a risk of breaking and parts being hurled about. This can cause **DEATH** or **SEVERE INJURIES**.

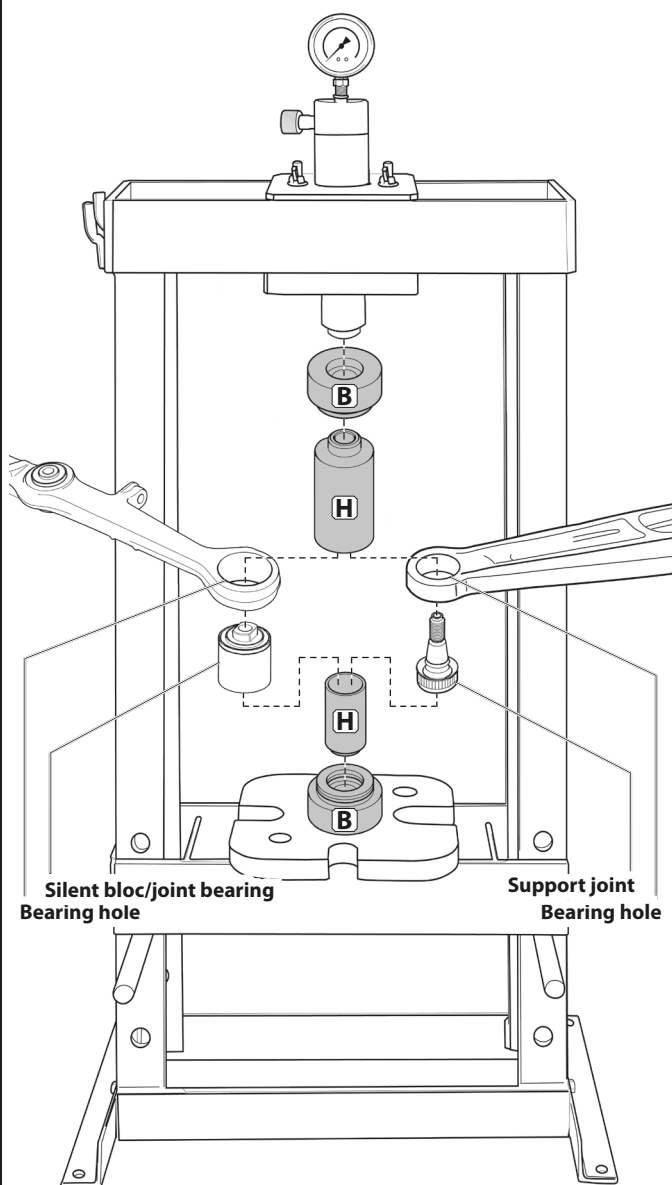
► **Never** exceed the **max. load** of the pressure/supporting sleeves [H..] and the stand press!

► **Always** read, understand, and observe **also** the manufacturer-specific safety instructions and instructions for the stand press!

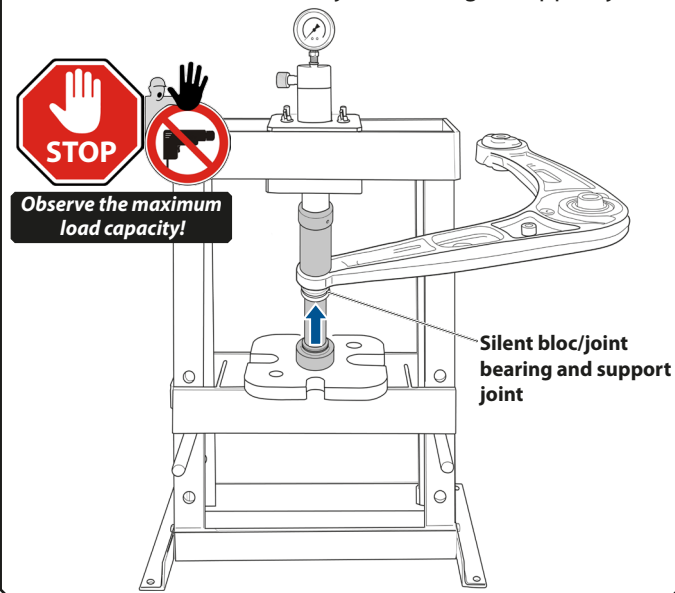
► **Constantly** watch the pressure on the pressure gauge at the stand press while forcing off.

2. While operating the stand press, watch the pressure on the pressure gauge and force the silent bloc/joint bearing or support joint out. **14**

15: Assemble the silent bloc/joint bearing tool.



16: Press in the silent bloc/joint bearing or support joint.



Forcing in the silent bloc/joint bearing or support joint

CAUTION

The press sleeve and the supporting sleeve [H..] can be damaged when forcing in the silent bloc/joint bearing!

- The press sleeve [H..] must rest with a right angle on at least two opposite surfaces on the silent bloc/joint bearing or support joint!
- The supporting sleeve [H..] must rest with a right angle on at least two opposite surfaces above the bearing hole!

1. Insert all the required components of the silent bloc/joint bearing tool together with the new silent bloc/joint bearing or support joint into a stand press as shown in **15**.

CAUTION

The silent bloc/joint bearing or support joint can be damaged during the press-in process!

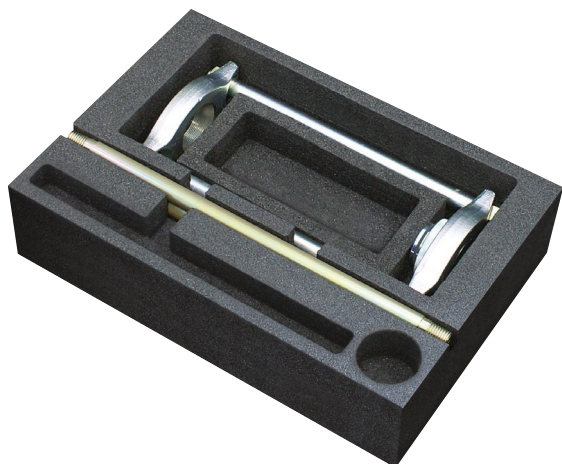
- Observe the correct installation position of the silent bloc/joint bearing or support joint according to the manufacturer's instructions!
- Press in the silent bloc/joint bearing or support joint **always** with a right angle to the bearing hole!

WARNING

When forcing in the silent bloc/joint bearing or support joint, there is a risk of breaking and parts being hurled about. This can cause **DEATH** or **SEVERE INJURIES**.

- **Never** exceed the **max. load** of the pressure/supporting sleeves [H..] and the stand press!
 - **Always** read, understand, and observe **also** the manufacturer-specific safety instructions and instructions for the stand press!
 - **Constantly** watch the pressure on the pressure gauge at the stand press while forcing in.
2. Operate the stand press, watch the pressure on the pressure gauge, and force the silent bloc/joint bearing or support joint in according to the manufacturer's instructions. **16**

3. Relieve and disassemble the components of the silent bloc/joint bearing tool, and carry out further work according to the manufacturer's instructions.

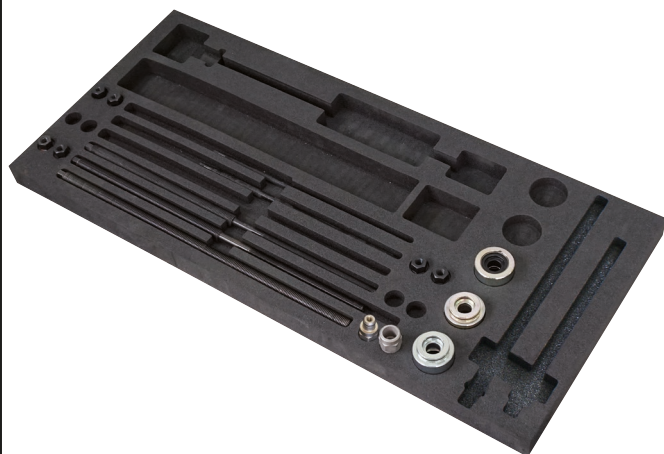
📷 17: Press frame set - KL-0039-1161 E


5. SILENT BLOC/JOINT BEARING TOOLS

KL-0039-1161 E - Press frame set in foam insert (📷 17)

For mechanical or hydraulic forcing out and forcing in of bearings, bushings, and joints in connection with the tools of the **KL-0039-.. series**.

① Scope of supply/single part overview see **chapter 2.2**

📷 18: Spindle/drive set - KL-0039-190 EA


KL-0039-190 EA - Spindle set/drive set in foam insert (📷 18)

The spindle/drive set ensures organised and well-structured working with the **KL-0039-..** wheel bearing and silent bloc tool series. The drive parts included in the set are required for working with the **KL-0039-..series** for removing and installing bearings, bushings, and joints.

① Scope of supply/single part overview see **chapter 2.2**

📷 19: Pull devices for silent blocs - KL-0039-413 K


KL-0039-413 K - Pulling device for silent blocs, mechanical, in plastic case (📷 19)

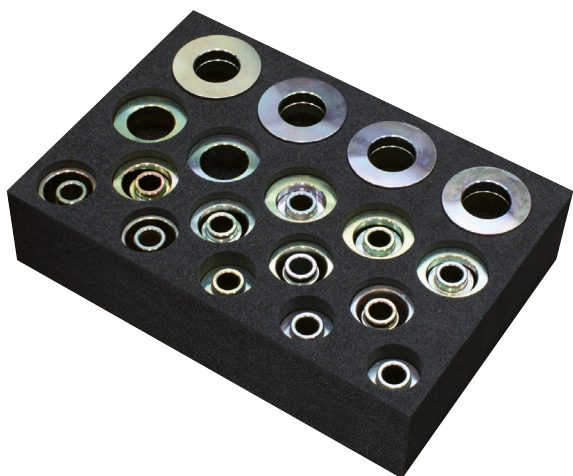
Universal fit for silent blocs or joint bearings of 30 to 73mm dia.

The pulling device enables quick and professional removal and installation of silent blocs or joint bearings. The mechanical drive included in the set ensures the extraction of silent or spherical bearings from an inner bore diameter of 10mm.

For very tight or corroded silent blocs, a hydraulic drive from GEDORE Automotive can also be used as an option. The additional use of a press frame also enables the removal and installation of support joints, for example, and others.

① Scope of supply/single part overview see **chapter 2.2**

📷 20: Pressure/supporting sleeve set, short - **KL-0039-160 E**



**KL-0039-160 E - Pressure/supporting sleeve set
30 - 90mm dia., short, 45mm, in
foam insert (📷20)**

For forcing out and forcing in of silent blocs, shafts, bushings in connection with the tools of the **KL-0039-.. series**.

① Scope of supply/single part overview see **chapter 2.2**

📷 21: Pressure/supporting sleeve set, short - **KL-0039-1601**



**KL-0039-160 E - Pressure/supporting sleeve set
30 - 90mm dia., short, 45mm, in
foam insert (📷21)**

For forcing out and forcing in of silent blocs, shafts, bushings in connection with the tools of the **KL-0039-.. series**.

① Scope of supply/single part overview see **chapter 2.2**

📷 22: Pressure/supporting sleeve set, long - **KL-0039-170 E**



**KL-0039-170 E - Pressure/supporting sleeve set
30 - 90mm dia., long, 45mm, in
foam insert (📷22)**

For forcing out and forcing in of silent blocs, shafts, bushings in connection with the tools of the **KL-0039-.. series**.

① Scope of supply/single part overview see **chapter 2.2**

① **As well as accessories, you can
find drive parts on our website at
www.gedore-automotive.com
or in the main catalogue.**

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