

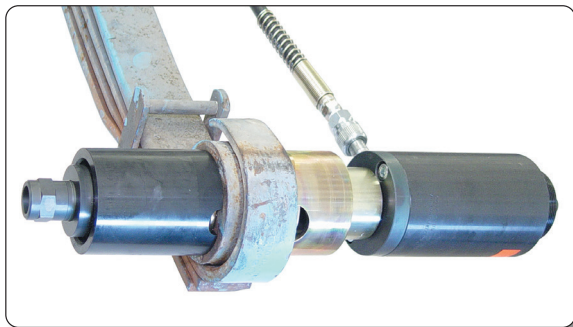


KL-1010-..Series

Pulling Device for Silent Blocks on Commercial Vehicles



Operating instructions EN
 ⚠ Read and understand before use!



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1. READ AND UNDERSTAND FOR YOUR SAFETY



Read and understand these operating instructions **before** using the pulling device (*pulling device for silent blocks on commercial vehicles*) and observe all safety and warning instructions! Misuse can result in **DEATH** or **SEVERE INJURIES!** These operating instructions are an integral part of the pulling device. Keep them at a safe place for future reference, and always pass them on to subsequent users of the pulling device. The pulling device complies with the recognised rules of technology as well as the relevant safety regulations.

1.1 Target group

These operating instructions are **exclusively** intended for skilled personnel in specialised motor vehicle workshops!

The pulling device **may only be** used by skilled personnel in specialised motor vehicle workshops who are familiar with the basic regulations on work safety and accident prevention!

✔ **Never** allow unauthorised, inexperienced persons, minors and children, or persons with limited physical, sensory, and mental abilities to use the the pulling device!

1.2 Obligations of the owner

Pursuant to the German Ordinance on Industrial Safety and Health (*BetrSichV*), employers are obliged to provide their employees with safe work equipment in accordance with the recognised rules of technology and the relevant safety regulations!

✔ The owner of the pulling device **must** ensure that **only** trained personnel in specialised vehicle workshops use the pulling device.

✔ The owner of the pulling device **must** ensure that the operating instructions are available to the user and that the user has completely read and understood the operating instructions **before** using the pulling device!

✔ The owner of the pulling device **must** ensure that the user is familiar with the basic regulations on work safety and accident prevention, and that personal protective equipment is available to him!

1.3 Intended use

The pulling device ...

✔ **may only** be used for removal and installation of slotted and closed silent blocks.

✔ **may only** be used on silent blocks as specified in **Chapter 2. - Product description!**

✔ **may only be** used when using the hydraulic cylinder - **KL-0040-2500** with a **max. load of 17 tonnes!**

✔ **may only be** used when using the hydraulic cylinder - **KL-0040-2800** with a **max. load of 20 tonnes!**

✔ **may only** be operated by hand with muscle power with a manual drive or a manually operated **GEDORE Automotive** hydraulic cylinder/pump combination with pressure gauge for safe pressure control!

✔ **may only** be used with **GEDORE Automotive** genuine spare parts and accessories!

✔ **may only** be used in the way described in these operating instructions!

⚠ Any other use can result in **DEATH** or **SEVERE INJURIES** !

1.4 Reasonably foreseeable misuse

The pulling device ...

✔ **must never** be used for pressing out or in other parts than those intended for it!

✔ **must never** be used with a machine drive or a machine-operated hydraulic cylinder/pump combination or any other drive than intended!

✔ **must never** be used for batch processing with numerous pressing in/out processes within a few minutes!

✔ **must never** be used with a bridged, modified, or removed safety device!

✔ **must never** be modified, converted, or used for other purposes without authorisation!

⚠ Use the pulling device **always** as intended. Any other use can result in **DEATH** or in **SEVERE INJURIES!**

1.5 Personal protective equipment

For your safety, **always** wear personal protective equipment when using the pulling device! The pulling device can bring about mechanical hazards, such as crushing, cutting, and shock injuries.



Always wear **EYE PROTECTION** (see DIN EN 166, OSHA 29 CFR 1910.133, ANSI Z87) when using the pulling device to protect yourself against parts or particles flying about!

When using the pulling device, flying parts or particles can cause **SEVERE INJURIES** to your **eyes!**



Always wear **PROTECTIVE GLOVES** (e.g. DIN EN 388, OSHA 29 CFR 1910.138, ANSI 105) when using the pulling device to protect yourself against sharp edges and crushing between parts!

When working with the pulling device, sharp edges and crushing between parts can cause **SEVERE INJURIES** to your **hands!**



Always wear **SAFETY SHOES** (for example to DIN EN ISO 20345, OSHA 29 CFR 1910.136, ANSI Z41) when using the pulling device to protect yourself against dropping parts!

When working with the pulling device, falling parts can cause **SEVERE INJURIES** to your **feet and toes!**

EN

1.6 Labelling of the warnings

Warnings warn of potential **hazards**. **Always** observe these warnings to avoid **DEATH** or **INJURIES!**

For better differentiation, warnings in these operating instructions are classified as follows:	
Warning sign	Meaning
	Indicates a hazardous situation which, if not avoided, could cause DEATH or SEVERE INJURIES .
	Indicates a hazardous situation which, if not avoided, could cause MODERATE or MINOR INJURIES .
	Indicates a situation which, if not avoided, can cause damage to the tool or an object in its vicinity.
	Note on important information and useful tips.

1.7 Basic warnings

⚠ WARNING - Danger to life from MISUSE

MISUSE can cause the pulling device to slip, break, and thus drop or be hurled about. This can cause **DEATH** or **SEVERE INJURIES!**

- When using the pulling device, flying parts or particles can cause **SEVERE INJURIES** to your **eyes!**
 - When working with the pulling device, sharp edges and crushing between parts can cause **SEVERE INJURIES** to your **hands!**
 - When working with the pulling device, falling parts can cause **SEVERE INJURIES** to your **feet and toes!**
- Read and understand these operating instructions **before using** the oil pump, and observe all safety and warning instructions for **safe use!**
 - Always** work with the pulling device in accordance with the basic regulations on work safety and accident prevention!
 - Only** use the pulling device as intended and described in these operating instructions!
 - Always** observe the vehicle-specific application procedures in the repair guide of the vehicle manufacturer!
 - Never** use the pulling device if it is damaged or has loose parts or unauthorised modifications!
 - Never** use the pulling device with a machine-operated drive or any other drive than intended! Drive it only by hand and with muscle power; **only** use a manual drive or a manually operated **GEDORE Automotive** hydraulic cylinder / pump combination with a pressure gauge for safe pressure control!
 - Never** use the pulling device for batch processing with numerous pressing in/out processes within a few minutes!
 - Always** wear your personal protective equipment (*safety goggles, protective gloves, safety shoes*) during work!
 - Never** beat the pulling device with a hammer or anything similar!

⚠ WARNING - Danger to life from OVERLOAD

OVERLOAD can cause the pulling device to slip, break, and thus drop or be hurled about. This can cause **DEATH** or **SEVERE INJURIES!**

- ✔ **Never** exceed the **maximum loading capacity** of the pulling device!
- ✔ **Never** use the pulling device if it is damaged or has loose parts or unauthorised modifications!
- ✔ **Never** use the pulling device with a machine-operated drive or any other drive than intended! Drive it only by hand and with muscle power; **only** use a manual drive or a manually operated **GEDORE Automotive** hydraulic cylinder / pump combination with a pressure gauge for safe pressure control!
- ✔ **Never** use the pulling device for batch processing with numerous pressing in/out processes within a few minutes!
- ✔ **Always** wear your personal protective equipment (*safety goggles, protective gloves, safety shoes*) during work!

⚠ CAUTION - Risk of injury from DROPPING and FLINGING AROUND

There is a risk of the pulling device **DROPPING** during preparation and use (overhead, for example). This can cause **SEVERE INJURIES!**

- ✔ Secure the pulling device against falling down and flinging around, for example by using the **GEDORE** safety holding belts - **KL-0040-2590** or **KL-0040-2890**, or the holding devices **KL-0040-258 A** or **KL-0040-288!**
- ✔ **Never** stand in axial extension of the pulling device when it is under load!
- ✔ **Always** make sure that the pulling device is securely attached to the silent block!
- ✔ Avoid dropping the pulling device at **all costs!**
- ✔ **Never** leave the pulling device unattended in loaded condition at the silent block!
- ✔ Deposit the pulling device **safely** against falling down, for example on a workbench!
- ✔ **Always** carry out all preparations of heavy parts with the help of a second specialist!
- ✔ **Always** wear your personal protective equipment (*safety goggles, protective gloves, safety shoes*) during work!

ATTENTION - Risk of DAMAGE

The vehicle, the silent block, and the pulling device can be **DAMAGED**.

- ✔ **Always** observe the installation position of the silent block specified by the vehicle manufacturer!
- ✔ **Always** observe vehicle-specific application procedures in the vehicle manufacturer's repair guide.
- ✔ **Prior to each use**, check the moving parts and the spindle of the pulling device for sufficient lubrication. If necessary, lubricate them only with molybdenum disulphide paste (for example **GEDORE Automotive - KL-0014-0030!**)
- ✔ **Never** use the pulling device for batch processing with numerous pressing in/out processes within a few minutes!
- ✔ **Never** clamp the pulling device in a vice.

1.8 Basic safety instructions

For your safety, **always** observe the following safety precautions when using the pulling device in order to avoid injuries and material damage caused by misuse or unsafe handling.

- ✔ Read and understand these operating instructions **before using** the oil pump, and observe all safety and warning instructions for **safe use!**
- ✔ **Always** observe the vehicle-specific application procedures in the vehicle manufacturer's repair guide!
- ✔ **Always** work with the pulling device in accordance with the basic regulations on work safety and accident prevention!
- ✔ **Never** use the pulling device when you are tired or under the influence of alcohol, drugs, or medication!
- ✔ **Before each use**, check the pulling device **carefully** for damage, loose parts, or unauthorised modifications. **Never** use it if you notice any such deficiencies!
- ✔ Use **only genuine GEDORE Automotive** spare parts and accessories!
- ✔ **If necessary**, carry, lift, and position the pulling device with the help of a second specialist due to its weight!
- ✔ **Before using** the pulling device, ensure that **no** unauthorised persons are in the immediate environment!
- ✔ **Always** observe the **max. loading capacity** when using the pulling device, and **never** exceed it!

- ✔ **Never** stand in axial extension of the pulling device when it is under load!
- ✔ **Never** use the pulling device with any other drive than intended!
- ✔ **Always** wear your personal protective equipment (*safety goggles, protective gloves, safety shoes*) during work!
- ✔ Interrupt your work **immediately** if you are unsure about using the pulling device, and contact **GEDORE Automotive GmbH** if necessary!
- ✔ For safety reasons, stop using the pulling device if any damage is detected on it! Professional inspection and repair may only be carried out by specially trained personnel from **GEDORE Automotive GmbH**!
- ✔ **Always** use the pulling device as intended; non-compliance will invalidate any warranty claim and may significantly reduce its durability.

1.9 Work environment

For your safety, **only** use the pulling device in a safe working environment.

- ✔ The workplace **must** be clean and tidy.
- ✔ The workplace **must** be sufficiently large and illuminated.
- ✔ The workplace **must** be on a solid and non-skidding floor.
- ✔ The workplace **must** be safeguarded against access of unauthorised persons.
- ✔ The workplace **must** be at room temperature between -10°C and +40°C.

1.10 Emissions

Molybdenum disulphide paste and hydraulic oil can drip or escape when using the pulling device and thus pose a hazard to the environment.

- ✔ **Immediately** remove leaking hydraulic oil as well as excess molybdenum disulphide paste (using oil binding agents or a cleaning cloth, for example).
- ✔ In case of skin contact with hydraulic oil, clean the affected area **immediately** with degreasing soap and water.
- ✔ Dispose of pollutants such as hydraulic oil and molybdenum disulphide paste in an **environmentally friendly** manner.
- ✔ Safety data sheets *in accordance with Regulation (EC) No. 1907/2006*, for hydraulic oil (**Alsus Hyd HLP 32**) as well as for molybdenum disulphide paste (**MOLYKOTE® G-N PLUS PASTE**) can be found on the manufacturer's site on the Internet (**World Wide Web**) or, if required, contact **GEDORE Automotive GmbH**.

1.11 Maintenance

Perform maintenance on the pulling device **at regular intervals** and **only** when the tool is not subject to pressure! Poor and improper maintenance can damage the pulling device, thus causing **DEATH** or **SEVERE INJURIES!**

Prior to each use:

- ✔ **Prior to each use**, check the pulling device **carefully** for damage, loose parts, or unauthorised modifications!
- ✔ **Prior to each use** of the pulling device, check the spindle for contamination and damage. If necessary, clean it and subsequently lubricate it **only** with molybdenum disulphide paste! (For example, **GEDORE Automotive - KL-0014-0030**)

Recommended: Every 24 months:

- ✔ Have the pulling device professionally checked **every 24 months** by authorised **GEDORE Automotive GmbH** specialists!

1.12 Troubleshooting

Always troubleshoot the pulling device when it is depressurised.

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

Reason: Hydraulic coupling contaminated or loose.

Remedy: Clean and retighten the hydraulic coupling. Top up lacking hydraulic oil (**HLP 32**) at the hand pump.

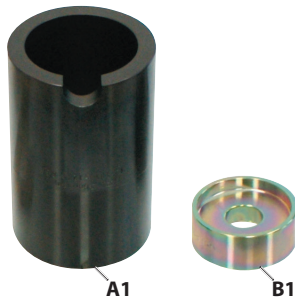
Problem: The hydraulic hand pump does not build up pressure or only very slowly.

Reason: The pressure release valve on the hydraulic hand pump is open or hydraulic oil is missing.

Remedy: Close the pressure release valve on the hydraulic pump completely. Top up lacking hydraulic oil (**HLP 32**) at the hydraulic hand pump.

2. PRODUCT DESCRIPTION

KL-1010-120 A - Thrust piece / sleeve kit 60mm diameter



2.1 KL-1010-..Series - Vehicle-specific thrust piece / sleeve kits

The vehicle-specific thrust piece/sleeve kits in conjunction with the required drive parts (*see chapter 3.2*) make up the pulling device for silent blocks in commercial vehicles and fit the vehicles listed below.

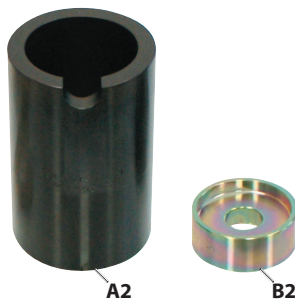
The sleeve kit enables quick and professional removal and insertion of slotted and closed silent blocks directly on the vehicle.

KL-1010-120 A - Thrust piece / sleeve kit Ø 60mm

Works with slotted and closed silent blocks with an outside diameter of 60mm (removed: 62mm), for example for Mercedes Actros front leaf spring and Renault silent block (No. 74 82 054 079, 50 10 557 875, 74 20 839 455, 74 21 622 369, 74 21 646 217 and 74 20 929 989) on Renault Midlum / D, Premium / T, Magnum / T, Kerax / C; DAF 65 CF, 75 CF, 85 CF, LF55; Volvo FE, FM, FH, FMX. leaf spring and bearing bracket

Item	Part no.	Description	Qty.
A1	KL-1010-1201	Conical sleeve, Ø 60mm	1
B1	KL-1010-1205	Thrust piece, diameter when removed 60mm	1

KL-1010-130 A - Thrust piece / sleeve kit 63mm diameter

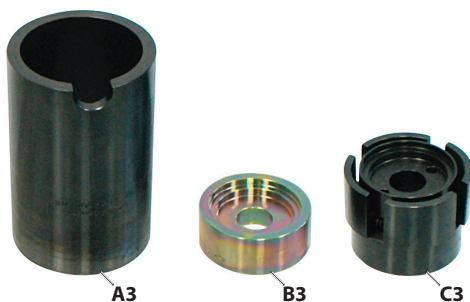


KL-1010-130 A - Thrust piece / sleeve kit Ø 63mm

Works with slotted and closed silent blocks with an outside diameter of 63 mm (removed: 65mm), for example on MAN TGA rear of front leaf bracket.

Item	Part no.	Description	Qty.
A2	KL-1010-1301	Conical sleeve, Ø 63mm	1
B2	KL-1010-1305	Thrust piece, diameter when removed 63mm	1

KL-1010-140 B - Thrust piece / sleeve kit 65mm diameter

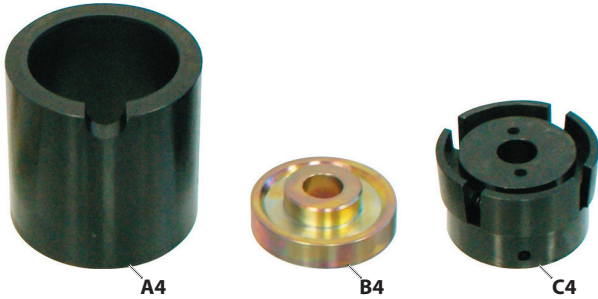


KL-1010-140 B - Thrust piece / sleeve kit Ø 65mm

Works with slotted and closed silent blocks with an outside diameter of 65mm (removed: 70mm), for example on Mercedes Actros front axle stabiliser bar.

Item	Part no.	Description	Qty.
A3	KL-1010-1401	Conical sleeve, Ø 65mm	1
B3	KL-1010-1406	Thrust piece, diameter when removed 65mm	1
C3	KL-1010-1402 A	Resilient thrust piece Ø 65mm	1

KL-1010-220 A - Thrust piece / sleeve kit 75mm diameter



KL-1010-220 A - Thrust piece / sleeve kit Ø 75mm

Works with slotted and closed silent blocks with an outside diameter of 75mm (removed: 80mm), for example on Mercedes Actros and Atego rear axle stabiliser bar.

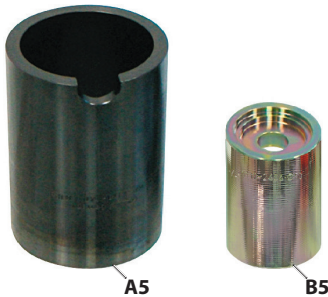
Item	Part no.	Description	Qty.
A4	KL-1010-2201	Conical sleeve, Ø 75mm	1
B4	KL-1010-2205	Thrust piece, diameter when removed 75mm	1
C4	KL-1010-2202	Resilient thrust piece Ø 75mm	1

KL-1010-240 A - Thrust piece / sleeve kit Ø 51mm

Works with slotted and closed silent blocks with an outside diameter of 51mm (removed: 52mm), for example on Volvo FM, FH, and Renault, etc.

Item	Part no.	Description	Qty.
A5	KL-1010-2401	Conical sleeve, Ø 51mm	1
B5	KL-1010-2404	Thrust piece, diameter when removed 51mm	1

KL-1010-240 A - Thrust piece / sleeve kit 51mm diameter

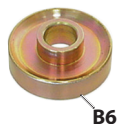


KL-1001-1013 Thrust piece Ø 57mm

Works with closed silent blocks with an outside diameter of 57mm, for example for BPW semi-trailers with ECO PLUS 2 axle.

Item	Part no.	Description	Qty.
B6	KL-1001-1013	Thrust piece Ø 57mm	1

KL-1001-1013 Thrust piece 57mm diameter



① Complete tool kits, see **Chapter 5**.

3. PREPARATION

⚠ WARNING

Misuse or overloading the pulling device can cause it to slip, break, and thus drop or fling around. This can cause **DEATH** or **SEVERE INJURIES!**

✔ **Prior to using** the pulling device, read and understand **all** safety instructions and warnings listed in **Chapter 1**, and **always observe** them for safe use!

✔ Use the pulling device **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 pulling device **carefully** for damage, loose parts, or unauthorised modifications. **Never** use it if you notice any such deficiencies!

✔ **Always** wear your personal protective equipment (for example safety goggles, protective gloves, safety shoes) when working!

3.1 Checking the scope of delivery

Prior to preparing or using the pulling device, check that all parts of the scope of delivery are available (see **chapter 2**), and follow the instructions below.

3.2 Required drive parts

⚠ WARNING

Using a machine-operated drive can cause the pulling device to slip, break, and thus drop or be hurled about. This can cause **DEATH** or **SEVERE INJURIES!**

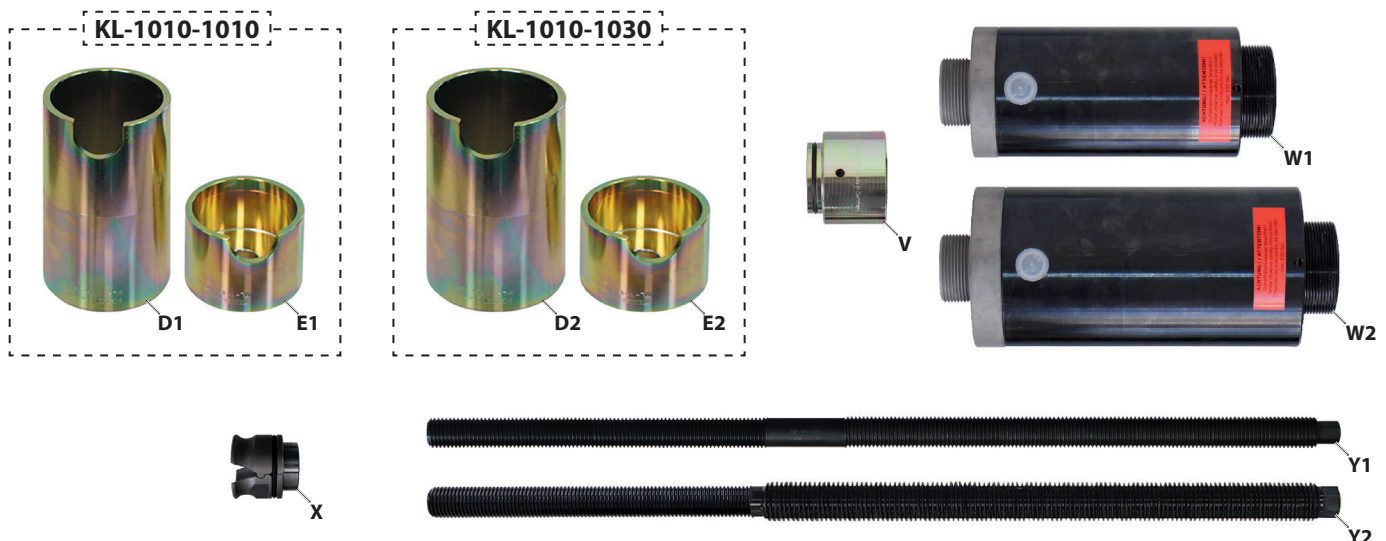
❗ **Never** use the pulling device with a machine-operated drive or any other drive than intended! Drive it only by hand and with muscle power; **only** use a manual drive or a manually operated **GEDORE Automotive** hydraulic cylinder / pump combination with a pressure gauge for safe pressure control!

1. Assemble the required drive parts for the pulling device as shown in **Fig. 2**.

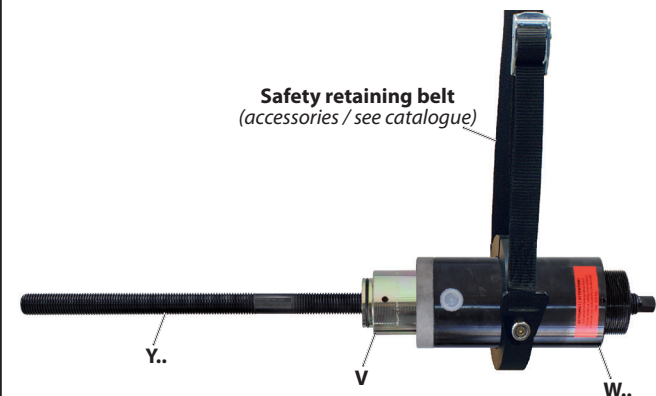
① *For other drive components see the GEDORE Automotive catalogue.*

Required drive parts according to the thrust piece/sleeve kits

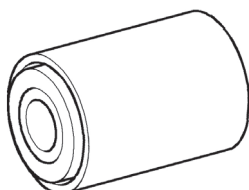
Drive parts (basic tools)	Item	KL-1010-120 A KL-1010-130 A KL-1010-140 B		KL-1010-240 A KL-1001-1013		KL-1010-220 A	
		Hydraulic drive:				Hydraulic drive:	
		17t	28t	17t	28t		
KL-1010-1001 - Support sleeve, long, Ø 70/79.5mm	D1	●	●				
KL-1010-1003 - Support sleeve, long, Ø 90/99.5mm	D2			●	●		
KL-1010-1006 - Support sleeve, short, Ø 70/79.5mm	E1	●	●				
KL-1010-1004 - Support sleeve, short, Ø 90/99.5mm	E2			●	●		
KL-0039-1003 - Retaining adapter for hydraulic cylinder	V	●	●	●	●	●	●
KL-0040-2500 - Hydraulic cylinder, 17t	W1	●		●			
KL-0040-2800 - Hydraulic cylinder, 28t	W2		●		●		
KL-0039-2120-2 - Quick-release nut	X	●	●	●	●	●	●
KL-0039-1920-1 - Pulling spindle for 17t hydraulic cylinder	Y1	●		●			
KL-0040-2846-1 - Pulling spindle for 28t hydraulic cylinder	Y2		●		●		
KL-0215-35 M25 - Hydraulic hand pump, 17t	Z1 <i>(not ill.)</i>	●		●			
KL-0215-35 M28 - Hydraulic hand pump, 28t	Z2 <i>(not ill.)</i>		●		●		



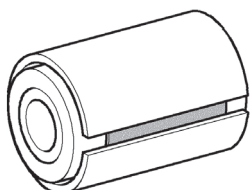
1: Preparing the tool



2: Preparing the vehicle



Closed silent block



Slotted silent block

KL-1010-1010 Thrust piece, Ø 70mm

Required for the thrust piece/sleeve kits **KL-1010-.. series**, for example for **KL-1010-120 A, KL-1010-130 A, KL-1010-140 B, KL-1010-240 A**.

Item	Part no.	Description	Qty.
D1	KL-1010-1001	Support sleeve, long Ø 70 / 79.5mm	1
E1	KL-1010-1006	Support sleeve short Ø 70 / 79.5 mm	1

KL-1010-1030 - Thrust piece, Ø 90mm

Required for the thrust piece/sleeve kits **KL-1010-.. series**, for example with **KL-1010-220 A**.

Item	Part no.	Description	Qty.
D2	KL-1010-1003	Support sleeve, long, Ø 90 / 99.5mm	1
E2	KL-1010-1004	Support sleeve, short, Ø 90 / 99.5mm	1

3.3 Specifications

Max. load on the pulling spindles [Y1] + [Y2]: 20 tonnes

Max. load on the hydraulic cylinder [W1]: 17 tonnes

Max. load on the hydraulic cylinder [W2]: 28 tonnes

3.4 Preparing the tool

1. Depending on the vehicle, prepare the required thrust piece/sleeve kit (**See chapter 2.1**) as well as the required drive parts (**See chapter 3.2**).

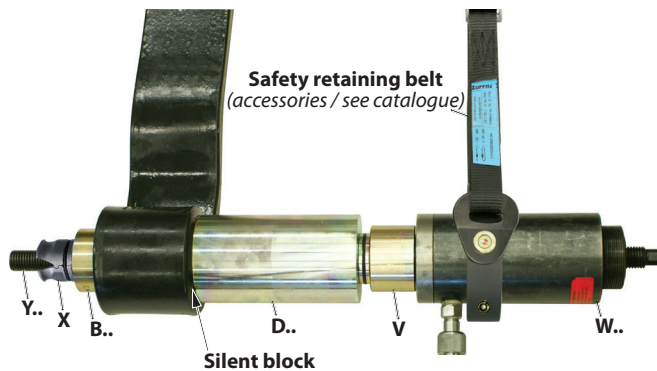
2. Prepare the hydraulic cylinder [W..] accordingly. For this, screw the pulling spindle [Y..] into the hydraulic cylinder [W..] as shown in **1**, and screw on the mounting adapter [V].

i The safety retaining belt - **KL-0040-2590** or **KL-0040-258 A**, which are available as an *accessory*, or the holding device **KL-0040-288** make it possible to secure the pulling device against falling down.

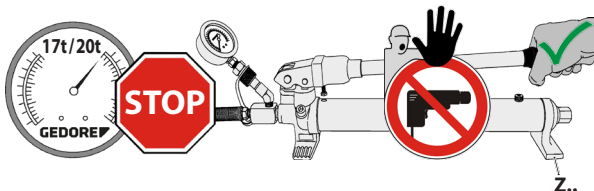
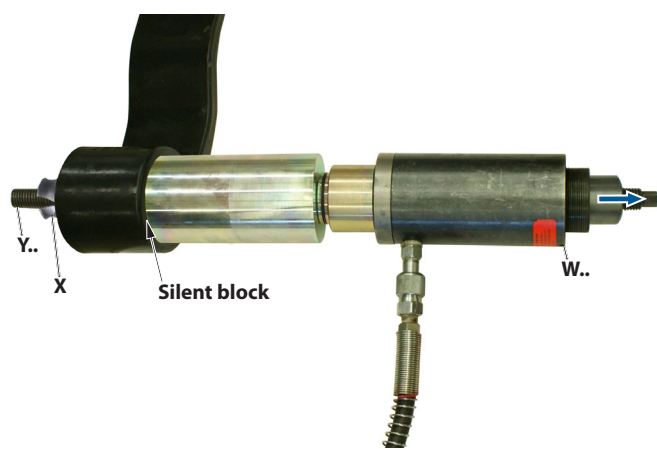
3.5 Preparing the vehicle

1. Lift the vehicle safely according to the manufacturer's instructions and loosen or prepare all necessary parts for the subsequent work.

📷3: Apply the pulling device to the silent block.



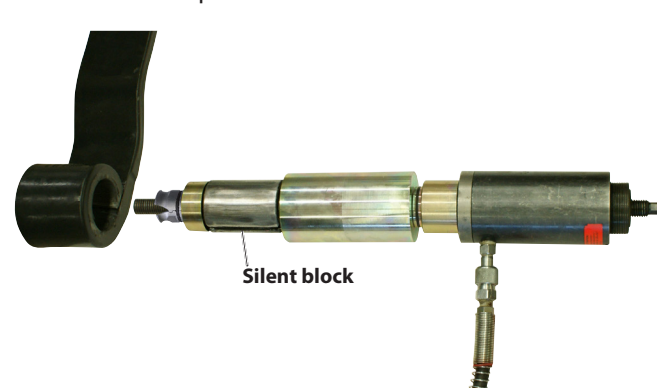
📷4: Pull out the silent block.



i The maximum stroke of the hydraulic cylinder [W1] is 45mm and that of the hydraulic cylinder [W2] is 50mm!

As soon as it is reached:
Interrupt the pressing process, relieve the pressure of the hydraulic pump [Z..], retighten the quick-release nut [X] until it is fully in place again, continue the pressing process.

📷5: Silent block pulled out.



4. TYPICAL APPLICATION

This typical application describes the removal and installation of slotted and closed silent blocks directly on the vehicle.

4.1 Removing the silent block

⚠️WARNING

The pulling device can fall down during use; falling parts can lead to **SEVERE INJURIES** of the head or feet!

- Secure the pulling device against falling down and flinging around, for example by using the **GEDORE** safety holding belts - **KL-0040-2590** or **KL-0040-2890**, or the holding devices **KL-0040-258 A** or **KL-0040-288!**

⚠️CAUTION

The silent block may collide with the support sleeve [D..] when being pulled out.

- Align the support sleeve [D..] in such a way that the silent block can be pulled out without collision.

- Assemble the pulling device as shown in **📷3** and subsequently attach it to the silent block and secure it.

⚠️WARNING

The pulling device may break if a machine-operated drive is used; ejected parts may lead to **DEATH** or **SERIOUS INJURIES!**

- Use the pulling device **exclusively** with a manually operated **GEDORE** hydraulic cylinder / pump combination with a manometer for reliable pressure control!
- Connect the hydraulic pump [Z..] to the the hydraulic cylinder [W..].

⚠️WARNING

During the removal of silent blocks there is a breaking risk of the draw spindle, and thus the risk of parts being ejected. This can cause **DEATH** or **SEVERE INJURIES**.

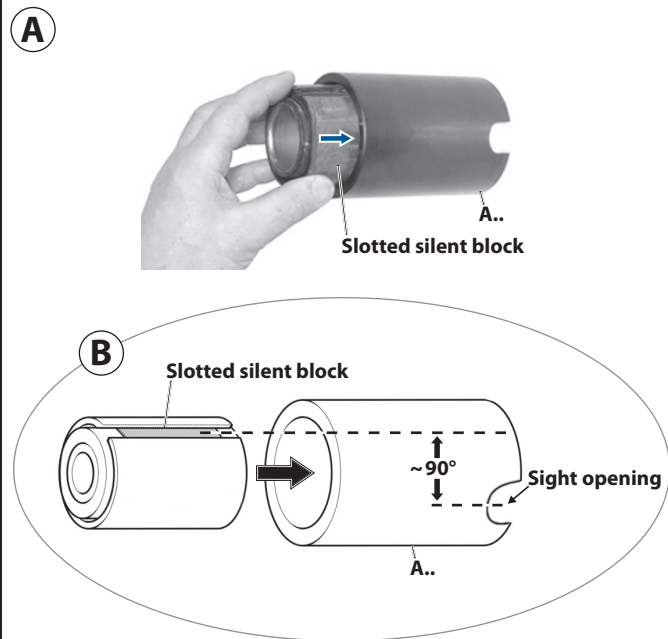
- Never** exceed the **maximum load** of the hydraulic cylinder [W1] of **17t** and that of the pulling spindle [Y..] of **20t!**

- While pulling out, **never** stand in the axial extension of the pull spindle [Y..].

- Operate the hydraulic pump [Z..] and observe the pressure on the manometer while pulling out the silent block

📷4+5.

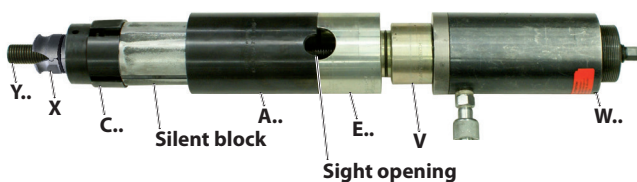
📷6: Insert the slotted silent block into the conical sleeve [A..].



📷7: Insert the slotted silent block with conical sleeve [A..] into the pulling device.

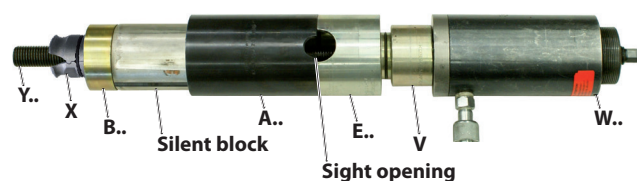
A

Slotted silent block with resilient thrust piece [C..] preload



B

Slotted silent block with thrust piece [B..] preload



4.2 Pre-tensioning slotted silent blocks

This step is only necessary for slotted silent blocks; for closed silent blocks go to **chapter 4.3** Installation of silent blocks.

CAUTION

The silent block and the conical sleeve [A..] can be damaged during pretensioning.

- ▣ Coat the outside of the silent block and the inside of the conical sleeve [A..] with a suitable lubricant.
- ▣ Insert the silent block into the conical sleeve [A..] with the slot in the metal casing offset by about 90° to the sight opening. **📷6B**

1. To press a slotted silent block into the vehicle, it must first be pre-tensioned. Insert the slotted silent block by hand as far as possible into the conical sleeve [A..] **📷6**.

2. Assemble the pulling device accordingly, giving priority to the resilient thrust piece [C..] depending on the thrust piece / sleeve set **📷7A**; otherwise the thrust piece [B..] **📷7B**.

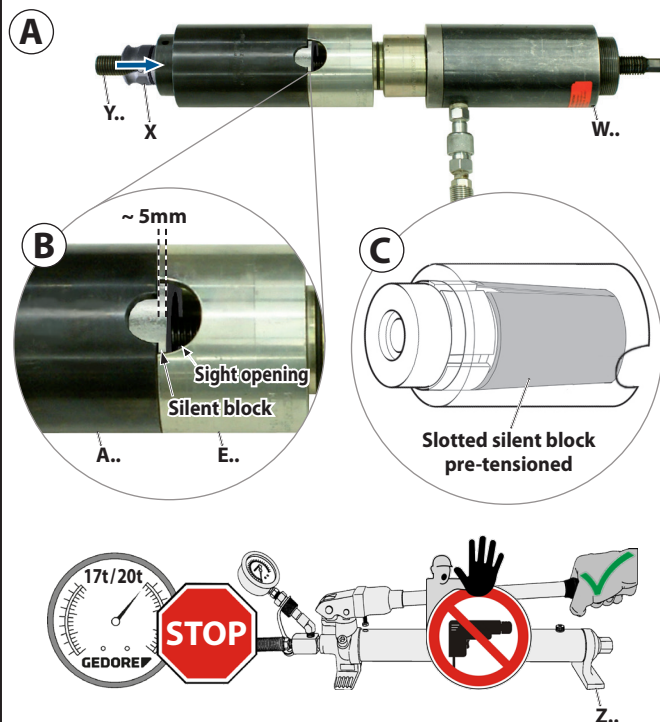
⚠️WARNING

The pulling device may break if a machine-operated drive is used; ejected parts may lead to **DEATH** or **SERIOUS INJURIES**.

- ▣ Use the pulling device **exclusively** with a manually operated **GEDORE** hydraulic cylinder / pump combination with a manometer for reliable pressure control!

3. Connect the hydraulic pump [Z..] to the the hydraulic cylinder [W..].

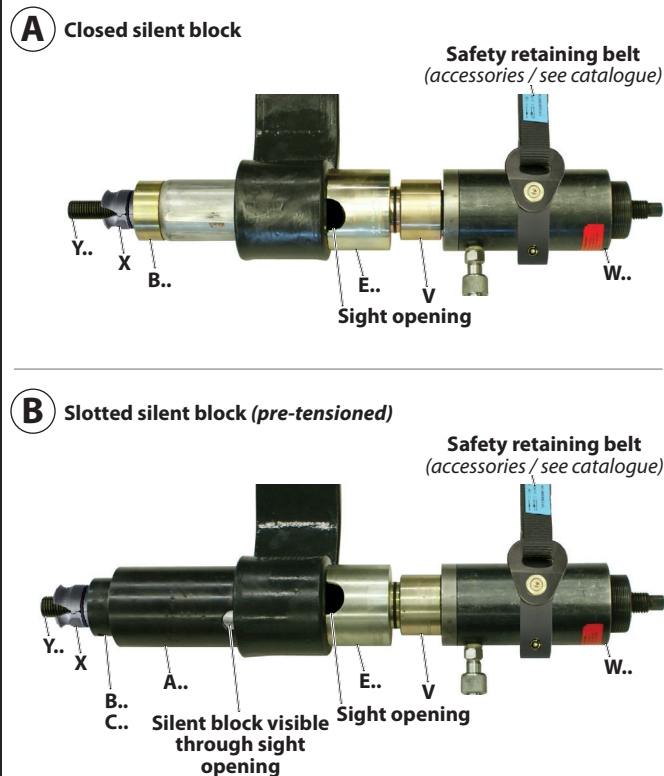
📷8: Pre-tensioning the slotted silent block.



i The maximum stroke of the hydraulic cylinder [W1] is 45mm and that of the hydraulic cylinder [W2] is 50mm!

As soon as it is reached:
Interrupt the pressing process, relieve the pressure of the hydraulic pump [Z..], retighten the quick-release nut [X] until it is fully in place again, continue the pressing process.

📷9: Attaching the pulling device to the mounting hole.



CAUTION

The silent block can be damaged during subsequent installation.

- Pre-tension the silent block until it protrudes about **5mm** at the back of the conical sleeve [A..] (visible through the sight opening 📷8B). Required to be able to place the silent block centrally on the mounting hole on the vehicle later.

⚠️WARNING

When pretensioning silent blocks there is a breaking risk of the draw spindle, and thus the risk of parts being ejected. This can cause **DEATH** or **SEVERE INJURIES**.

- Never exceed the maximum load of the hydraulic cylinder [W1] of **17t** or that of the pulling spindle [Y..] of **20t!**
- While pretensioning, **never** stand in the axial extension of the pull spindle [Y..].

- Operate the hydraulic pump [Z..], observe the pressure at the pressure gauge and pretension the silent block until it protrudes about **5mm** at the back of the conical sleeve [A..]; visible through the sight opening 📷8.

- Relieve traction device, dismantle and proceed to **chapter 4.3 - Installation of silent block.**

4.3 Installation of the silent block

⚠️WARNING

The pulling device can fall down during use; falling parts can lead to **SEVERE INJURIES** of the head or feet!

- Secure the pulling device against falling down and flinging around, for example by using the **GEDORE** safety holding belts - **KL-0040-2590** or **KL-0040-2890**, or the holding devices **KL-0040-258 A** or **KL-0040-288!**

CAUTION

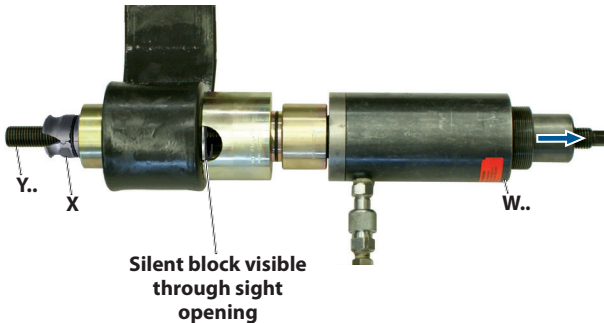
During the insertion, the silent block may collide with the supporting sleeve [E..].

- Align the support sleeve [E..] in such a way that the silent block can be inserted without collision.

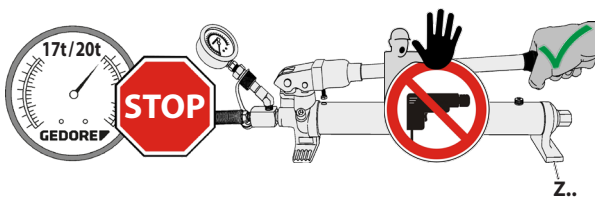
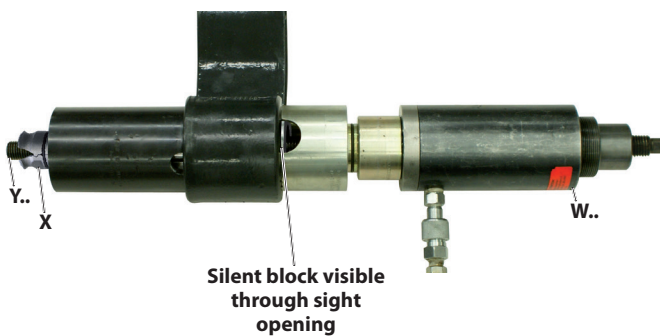
- Assemble the pulling device accordingly and position it correctly with the silent block 📷9A or the pre-tensioned silent block in the conical sleeve [A..] 📷9B, position it on the locating hole and secure it.

📷 10: Install the silent block.

A Closed silent block



B Slotted silent block (pre-tensioned)



i The maximum stroke of the hydraulic cylinder [W1] is 45mm and that of the hydraulic cylinder [W2] is 50mm!

As soon as it is reached:

Interrupt the pressing process, relieve the pressure of the hydraulic pump [Z..], retighten the quick-release nut [X] until it is fully in place again, continue the pressing process.

⚠️ WARNING

The pulling device may break if a machine-operated drive is used; ejected parts may lead to **DEATH** or **SERIOUS INJURIES!**

✔ Use the pulling device **exclusively** with a manually operated **GEDORE** hydraulic cylinder / pump combination with a manometer for reliable pressure control!

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

CAUTION

The silent block can be damaged.

✔ **Be sure** to observe the installation position of the silent block according to the manufacturer's specifications.

⚠️ WARNING

During the installation of silent blocks there is a breaking risk of the draw spindle, and thus the risk of parts being ejected. This can cause **DEATH** or **SEVERE INJURIES**.

✔ **Never** exceed the maximum load of the hydraulic cylinder [W1] of 17t or that of the pulling spindle [Y..] of 20t!

✔ While inserting, **never** stand in the axial extension of the pull spindle [Y..].

3. Operate the hydraulic pump [Z..] while observing the pressure at the pressure gauge and insert the silent block 📷 10A or the preloaded silent block into the conical sleeve [A..] 📷 10B, according to the manufacturer's information.

4. Relieve the pulling device, disassemble it, and make further repairs on the vehicle according to manufacturer's instructions.

5. CARE / STORAGE

CAUTION

Improper care and storage can damage the pulling device. Therefore, **never** immerse the pulling device in water, solvents, or other cleaning liquids. After use, clean all parts **only** with a dry and clean cleaning cloth. To protect against corrosion, rub all metal parts with a tool care oil or wax. Store the pull device and the operating instructions at a dry and clean place.

KL-1010-90 K - Silent bearing tool kit for commercial vehicles



KL-1010-106 K - Drive kit 28t for KL-1010 series



6. TOOL KITS

KL-1010-90 K - Silent bearing tool kit for commercial vehicles

Universal fit for slotted and closed silent blocks on commercial vehicles, with an outside diameter of (installed/removed) 51/52, 60/62, 63/65, 65/70, 75/80mm.

The tool kit contains vehicle-specific thrust piece / sleeve sets, see **chapter 2.1**.

Part no.	Description	Qty.
KL-1010-120 A	Thrust piece / sleeve set, 60mm	1
KL-1010-130 A	Thrust piece / sleeve set, 63mm	1
KL-1010-140 B	Thrust piece / sleeve set, 65mm	1
KL-1010-220 A	Thrust piece / sleeve set, 75mm	1
KL-1010-240 A	Thrust piece / sleeve set, 51mm	1
KL-1010-1090-1	Foam insert	1
KL-4600-1094	Plastic case	1

KL-1010-106 K - Drive kit 28t for KL-1010 series

Suitable drive parts for the commercial vehicle silent block tool kit - **KL-1010-90 K**.

Part no.	Description	Qty.
KL-1010-1001	Support sleeve, long, \varnothing 70 / 79.5mm	1
KL-1010-1003	Support sleeve, long, \varnothing 90 / 99.5mm	1
KL-1010-1006	Support sleeve, short, \varnothing 70 / 79.5mm	1
KL-1010-1004	Support sleeve, short, \varnothing 90 / 99.5mm	1
KL-0040-2800	Hydraulic cylinder 28t	1
KL-0040-2846-1	Pulling spindle for 28t hydraulic cylinder	1
KL-0039-1003	Retaining adapter for hydraulic cylinder	1
KL-0039-2120-2	Quick-release nut	1
KL-1010-1069-1	Foam insert	1
KL-4600-1094	Plastic case	1
KL-1010-1069-2	Spindle package	1
KL-1010-1069-3	Plug for package	1

7. REPAIR

⚠ WARNING

If damage to the pulling device is detected, do no longer use it for safety reasons! Professional inspection and repair may only be carried out by specially trained experts from **GEDORE Automotive GmbH**. Improper repair can result in **DEATH** or **SEVERE INJURIES**.

8. ENVIRONMENTALLY COMPLIANT DISPOSAL

Dispose of the pulling device and its packaging material in an environmentally compatible way in accordance with the legal requirements. If necessary, ask your local authorities about environmentally friendly disposal options.