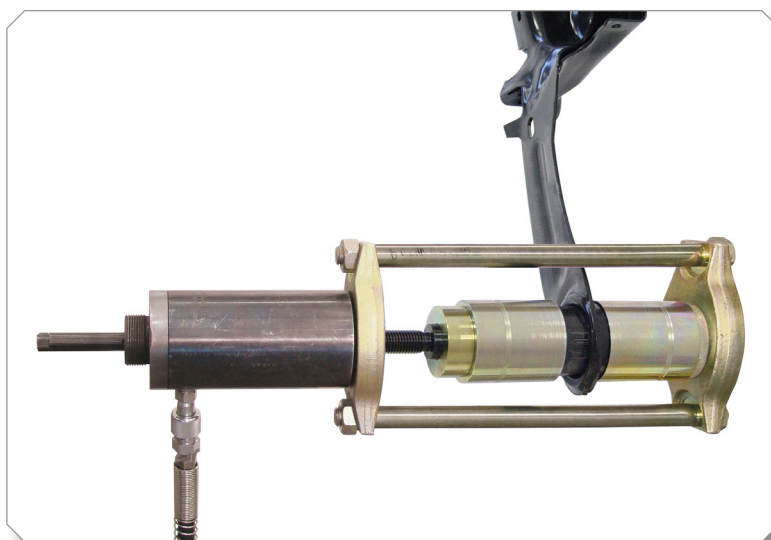
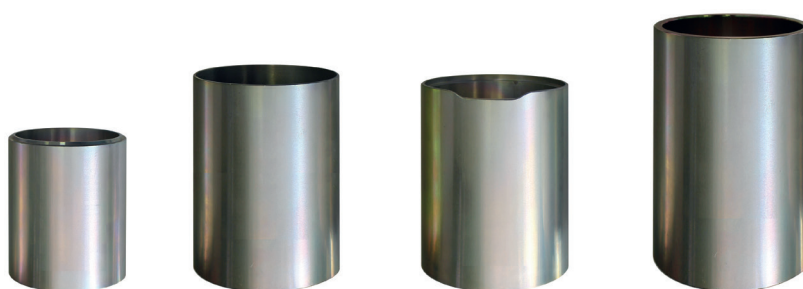


KL-0610-13..Serie

Silent Block Tool for Rear Axle Trailing Arm (Ford, Volvo, Mazda)



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1. READ AND UNDERSTAND FOR YOUR SAFETY



These operating instructions are intended to familiarise you with the operation of the **SILENT BLOCK TOOL**. Therefore read and understand these operating instructions **before using** the special tool and observe all safety and warning instructions for safe use! Misuse can result in **DEATH** or **SEVERE INJURIES**! The operating instructions are part of the special tool. Therefore keep them in a safe place so that you can access them at any time, and always pass them on to subsequent users of the special tool! The special tool 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 special tool **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 special tool!

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 special tool **must** ensure that **only** trained persons in specialised vehicle workshops use the special tool!
- The owner of the special tool **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 special tool!
- The owner of the special tool **must** ensure that the user is familiar with the basic regulations on work safety and accident prevention and that the personal protective equipment is available to him!

1.3 Intended use

The SILENT BLOCK TOOL...

...may only be used for pressing silent blocks on the rear axle trailing arms in and out!

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

...may only be used up to a **max. load of 12 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 SILENT BLOCK TOOL...

...must never be used for pressing other parts in or out or in any other way than intended!


...must never be used together with an impulse or impact screwdriver!

...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 series production with many repetitive operations 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!

 **Always** use the special tool as intended. Any other use can result in **DEATH** or **SEVERE INJURIES**!

1.5 Personal protective equipment

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



Wear **EYE PROTECTION** (for example to DIN EN 166, OSHA 29 CFR 1910.133, ANSI Z87) when using the special tool to protect yourself against flinging parts or particles!

- When using the special tool, flying parts or particles can cause **SEVERE INJURIES** to your **eyes**!



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

- When using the special tool, 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 special tool to protect yourself against falling parts!

- When using the special tool, falling parts can cause **SEVERE INJURIES** to your **feet and toes**!

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
WARNING	Indicates a hazardous situation which, if not avoided, could possibly cause DEATH or SEVERE INJURIES .
CAUTION	Indicates a hazardous situation which, if not avoided, could cause MODERATE or MINOR INJURIES .
CAUTION	Indicates a situation which, if not avoided, could cause damage to the tool or an object in its vicinity.
i	Note 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 or extreme humidity and moisture!

- 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** have a room temperature between -10 °C and + 40 °C.

1.8 Emissions

Molybdenum disulphide paste and hydraulic oil can drip or leak when using the special tool 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 **always in an environmentally friendly manner**.
- Safety data sheets *in accordance with Regulation (EC) No. 1907/2006* for hydraulic oil (**Alsus Hyd HLP 32 or 46**) as well as for molybdenum-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**.

1.9 Basic safety instructions and warnings

⚠ WARNING - Failure to observe this warning may result in an accident or death

When using the special tool, **always** observe the following safety and warning instructions as well as measures to avoid **DEATH** or **SERIOUS INJURY** as well as property damage due to hazards, misuse, abuse and unsafe handling!

- Therefore read and understand these operating instructions **before using the special tool** and observe all safety and warning instructions for **safe use**!
- **Always** work with the special tool in accordance with the basic regulations on work safety, accident prevention and environmental protection!
- **Always** use the special tool as intended. **GEDORE Automotive** does not accept any liability or warranty or guarantee claims for injuries and damage resulting from improper use or disregard of the safety regulations.
- **Before each** use, check the special tool **carefully** for damage, loose parts, or unauthorised modifications. **Never** use it, if you notice any such deficiencies! Professional inspection and repair may only be carried out by specially trained personnel from **GEDORE Automotive**!
- **Only** use original spare parts and accessories from **GEDORE Automotive** for the special tool!
- **Always** observe the vehicle-specific manufacturer's specifications when working with the special tool!
- Secure the special tool in particular the hydraulic cylinder against falling down and flinging around. This can, for example, be done by holding it tightly or by using the **GEDORE** safety retaining belt - **KL-0040-2590** or **KL-0040-2592** or alternatively the retaining device **KL-0040-258 A**!
- **Never** use the special tool with an impulse or impact wrench or any other drive than intended! Drive it **only** by hand and with muscle power; 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 special tool for batch processing with many constantly repeating work processes!
- **Never** use the special tool when you are tired or under the influence of alcohol, drugs, or medication!
- **If necessary**, carry, lift, and position the heavy parts of the special tool with the help of a second specialist!
- **Before using** the special tool, make sure that **no** unauthorised persons are in the immediate work environment!
- **Always** observe the **max. loading** capacity when using the special tool, and **never** exceed it!
- **Never** stand in the axial extension of the special tool, especially **not** when it is under load!
- Wear your personal protective equipment such as safety goggles, protective gloves, safety shoes during work!
- **Always** make sure that the special tool is securely attached to the vehicle!
- **Never** leave the special tool unattended in loaded condition on the vehicle or silent block!
- Avoid dropping, hitting or impacting the special tool and **never** hit it with a hammer or other objects especially when it is under load!
- **Never** clamp the special tool in a vice and always place it securely on a clean shelf or workbench to prevent it from falling!
- **Prior to each use**, check the moving parts and the spindle of the special tool for sufficient lubrication. If necessary, lubricate it **only** with molybdenum disulphide paste (for example **GEDORE Automotive - KL-0014-0030**)!
- Interrupt your work **immediately** if you are unsure about using the special tool, and contact **GEDORE Automotive** if **necessary**!
- For safety reasons, ensure that a damaged special tool is **no longer** used! Professional inspection and repair may **only** be carried out by specially trained personnel from **GEDORE Automotive GmbH**!

1.10 Maintenance

Perform maintenance on the special tool at **regular intervals** and **only** when the tool is depressurised! Poor and improper maintenance can damage the special tool, thus causing **DEATH or SEVERE INJURIES!**

Prior to each use:

- **Prior to each use**, check the special tool **carefully** for damage, loose parts or unauthorised modifications!
- **Prior to each use** of the special tool, 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 special tool professionally checked **every 24 months** by authorised specialists from **GEDORE Automotive GmbH!**

1.11 Troubleshooting

Only perform troubleshooting on the special tool 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 or 46**) 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 hand pump is open or hydraulic oil is missing.

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

1.12 Care / Storage

CAUTION

Improper care and storage can damage the special tool.

- Therefore, **never** immerse the special tool in water, solvents, or other cleaning liquids.
- After use, clean all parts of the special tool with a dry and clean cleaning cloth.
- Store the special tool and the operating instructions at a dry and clean place.

1.13 Repair

⚠ WARNING

Improper repair of the special tool can result in **DEATH or SEVERE INJURIES.**

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

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

1.14 Environmentally friendly disposal

Dispose of the special tool 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

2. PRODUCT DESCRIPTION

2.1 KL-0610-131 A - Set of sleeves (Ford Focus I, II, III)

Suitable for the silent block of the rear axle trailing arm of Ford Focus (I, II, III), C-MAX (I, II), Kuga (I, II), Grand C-Max (II); Volvo C30 (I), S40/V50 (I), V40 (II) and Mazda 3 (BK), 5 (CR19, CW).

In conjunction with the suitable drive parts to press the silent block on the rear axle trailing arm rapidly and professionally in and out.

2.2 KL-0610-133 A - supplementary kit

Enables a supplementation of the old sleeve kit - **KL-0610-131** to the current sleeve kit - **KL-0610-131 A**.

2.3 KL-0610-134 - sleeve kit (Ford Focus III)

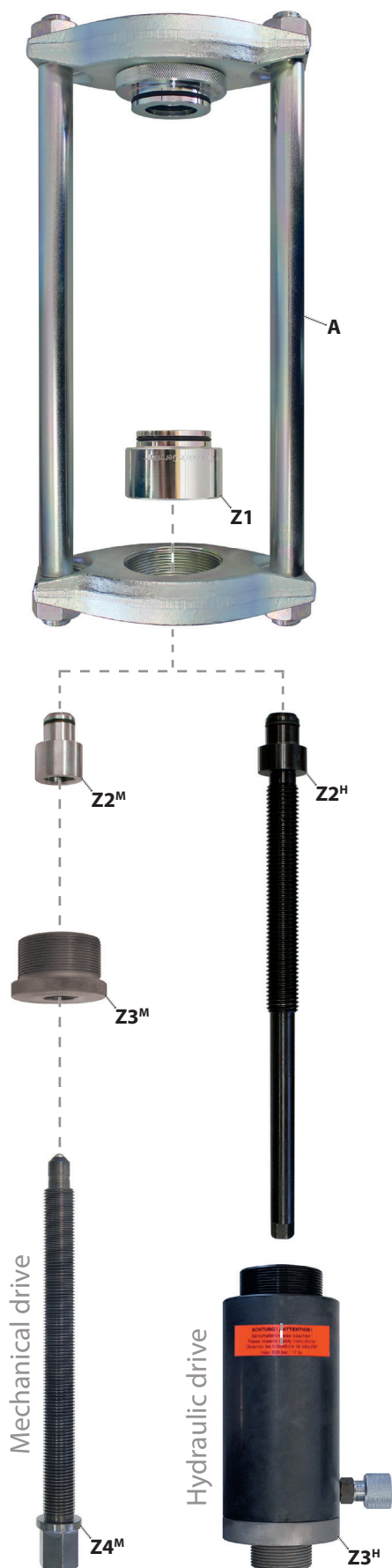
Suitable for the silent block of the rear axle trailing arm of Ford Focus (III), C-MAX (II), Grand-C-Max (II), Kuga (II), and Volvo V40 (II).

In conjunction with the suitable drive parts to press the silent block on the rear axle trailing arm rapidly and professionally in and out.

2.4 Scope of supply / overview of individual parts / drive parts

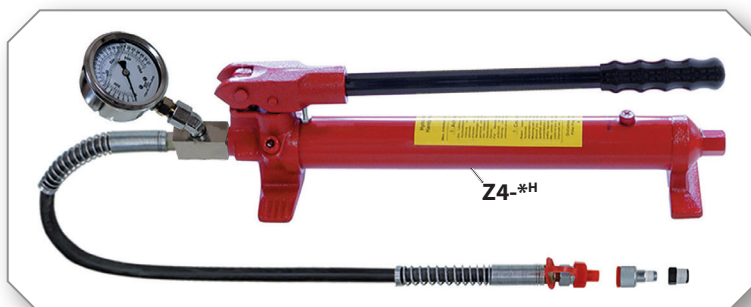
① This table shows all components for the silent block tool.
 Prior to using the tool, check to ensure
 that all the parts included in the scope of delivery are available
 and compile any
 additional components that may still be required.

		KL-0610-131 A	KL-0610-133 A	KL-0610-134
Press frame... A				
	Item			
KL-0039-1140 - Press frame 12t		+	+	+
Support sleeves... B				
KL-0610-1341 - Support sleeve Ø 70 / 66.5mm		●	●	●
KL-0039-1774 - Support sleeve Ø 74 / 66mm		●	+	
Pressure sleeves... C				
KL-0610-1311 A - Pressure sleeve Ø 59.3 / 52mm		●	●	●
KL-0610-1332 - Pressure sleeve Ø 70 / 62mm		●	●	
Drive parts... Z				
KL-0039-1002 - Mounting adapter		+	+	+
...optionally Hydraulic	KL-0039-1930 - Thrust spindle M20 x 350mm	Z2 ^H	+ ^H	+ ^H
	KL-0040-2500 - Hydraulic cylinder, 1t	Z3 ^H	+ ^H	+ ^H
	KL-0215-35 M25 - Hydr. hand pump 17t	Z4 ^H	+ ^H	+ ^H
...optionally Mechanical	KL-0174-853 - Thrust piece for mech. spindle	Z2 ^M	+ ^M	+ ^M
	KL-0174-547 - Adapter 2 ¼"-14 UNS to M20x2	Z3 ^M	+ ^M	+ ^M
	KL-0174-620 - Mechanical spindle	Z4 ^M	+ ^M	+ ^M
● = Included in the scope of delivery / + = Additionally required / .. ^H = Hydraulic drive parts / .. ^M = Mechanical drive parts				



2.5 Specifications

Max. load: 12t



3. PREPARATION

3.1 Preparing the vehicle

📷 1: Prepare the rear axle trailing arm accordingly...



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

For example:

Dismantle wheel / Remove lines to the body / Loosen the screw connection at the silent block / Slightly lower the rear axle

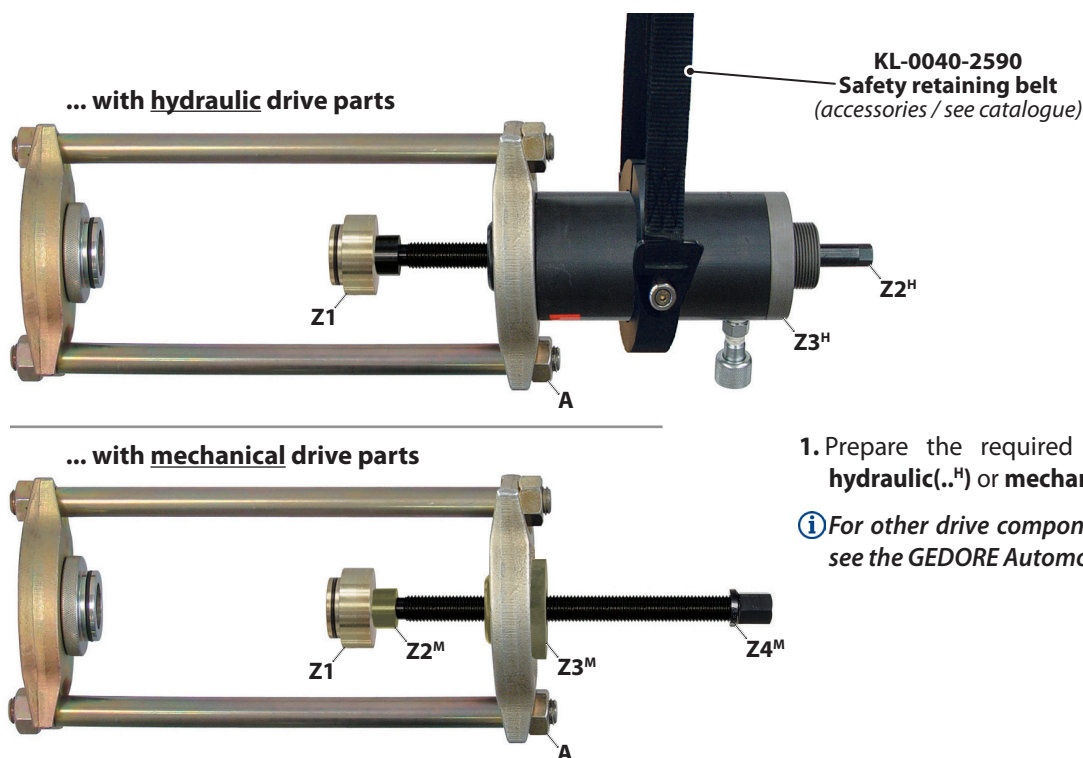
3.2 Preparing the tool

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

⚠️ WARNING

There is the risk of the silent block tool breaking and flinging around when a machine-operated drive is used. This can cause **DEATH** or **SEVERE INJURIES**! Therefore only operate the silent block tool by hand with muscle power with a manual drive or a manually operated GEDORE Automotive hydraulic cylinder/pump combination with suitable pressure gauge for safe pressure control!

The silent block tool may fall down during use. This can cause **SEVERE INJURIES**! Therefore secure the silent block tool against dropping, for example by firmly holding on to it or by using the safety retaining belt that is available as an accessory!



1. Prepare the required drive parts, either **hydraulic(..^H)** or **mechanical(..^M)**, as shown.

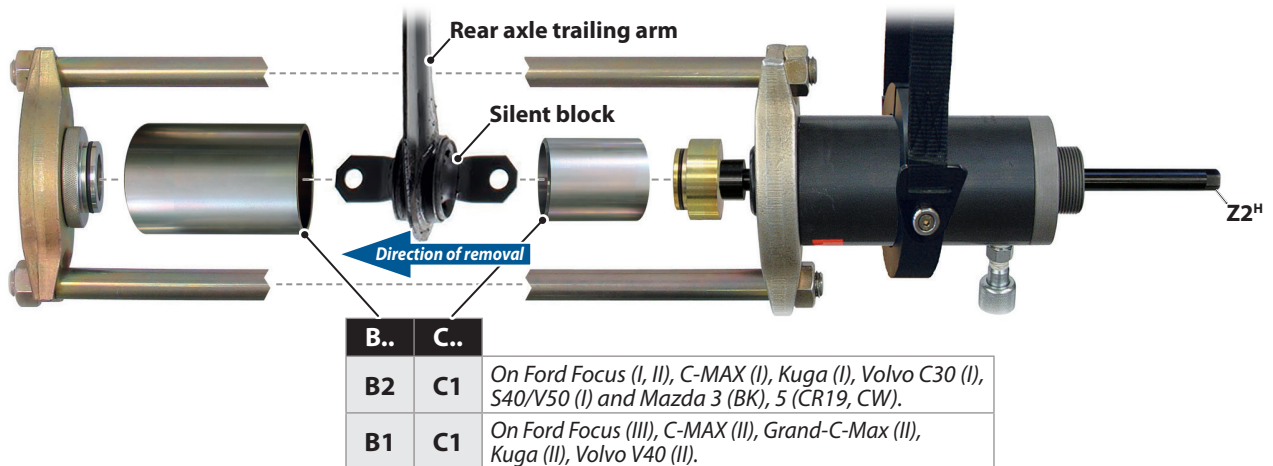
❗ For other drive components and accessories see the GEDORE Automotive catalogue.

4. TYPICAL APPLICATION

① This application example describes how to force out and force in a silent block on a rear axle trailing arm with the silent block tool series - KL-0041-13.. in combination with hydraulic drive parts (..^H). When using mechanical drive parts (..^M), this process is always carried out according to the same principle.

4.1 Forcing out the silent block..

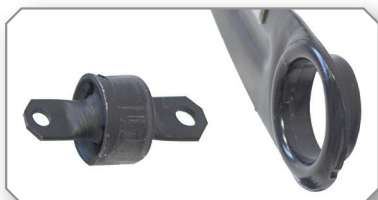
📷 3: Apply the silent block tool accordingly at the rear axle trailing arm...



1. Compile the suitable silent block tool depending on the vehicle and apply it in the correct position on the rear axle trailing arm according to the direction of removal of the silent block.

Then screw in the pull spindle [Z2^H] until the support sleeve [B..] and pressure sleeve [C..] rest completely and centred on the silent block.

📷 4: Force out the silent block in a controlled way...

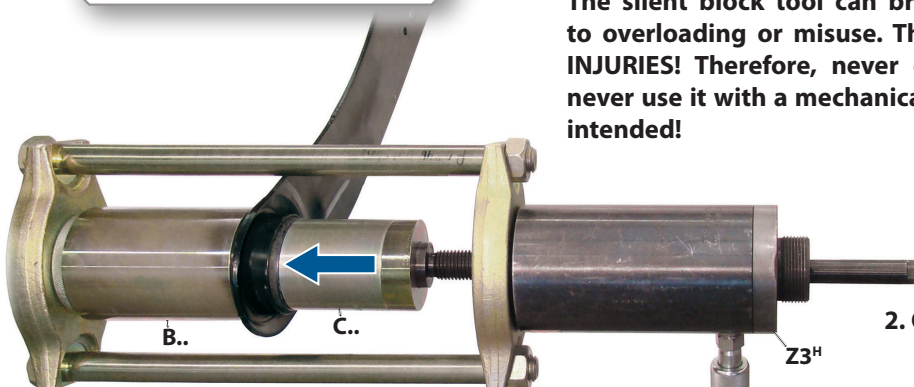


CAUTION

There is a risk of damage to the rear axle trailing arm when the silent block is forced out. This is why it is important to observe the removal direction of the silent block!

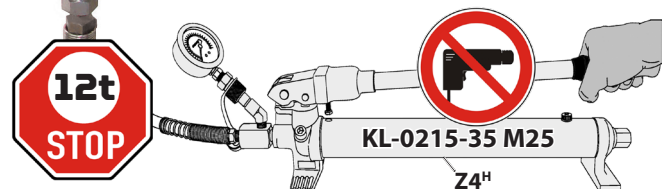
⚠ WARNING

The silent block tool can break and be hurled around due to overloading or misuse. This can cause DEATH or SEVERE INJURIES! Therefore, never overload the silent block tool, never use it with a mechanical drive or in any other way than intended!



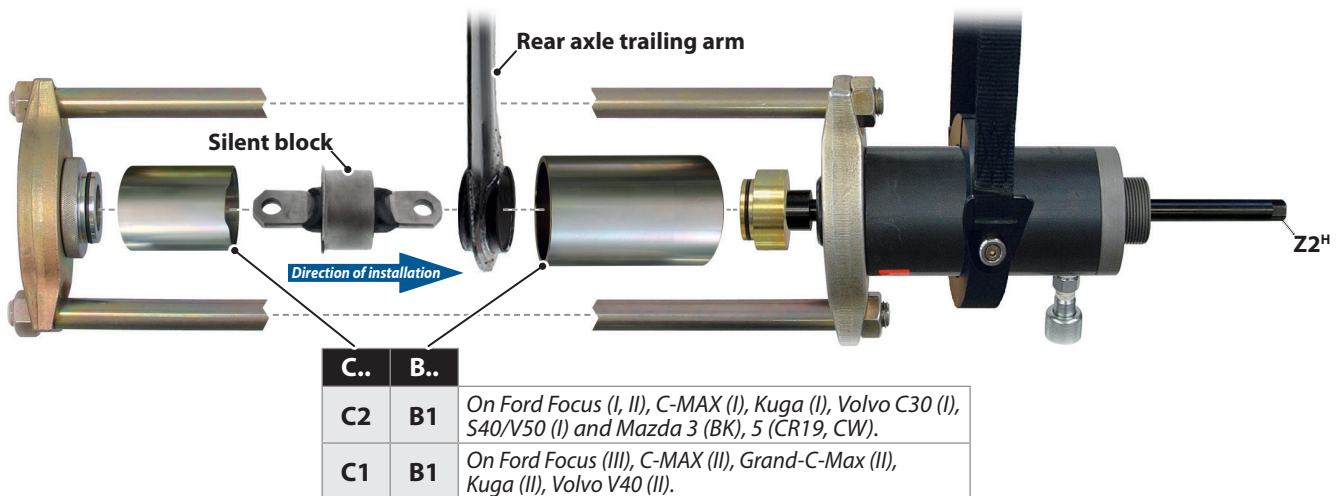
2. Connect the hydraulic hand pump [Z4^H] to the hydraulic cylinder [Z3^H].

3. Align the silent block tool centred to the silent block, operate the hydraulic hand pump [Z4^H], while observing the pressure on the pressure gauge, and force out the silent block in a controlled manner.



4.2 Forcing in the silent block...

Fig 5: Apply silent block tool and silent block accordingly at the rear axle trailing arm...



1. Compile the suitable silent block tool depending on the vehicle and apply it in the correct position on the rear axle trailing arm according to the direction of installation of the silent block.

Then screw in the pull spindle [Z2^H] until the support sleeve [B..], pressure sleeve [C..] and the silent block rest completely and centred on the silent block.

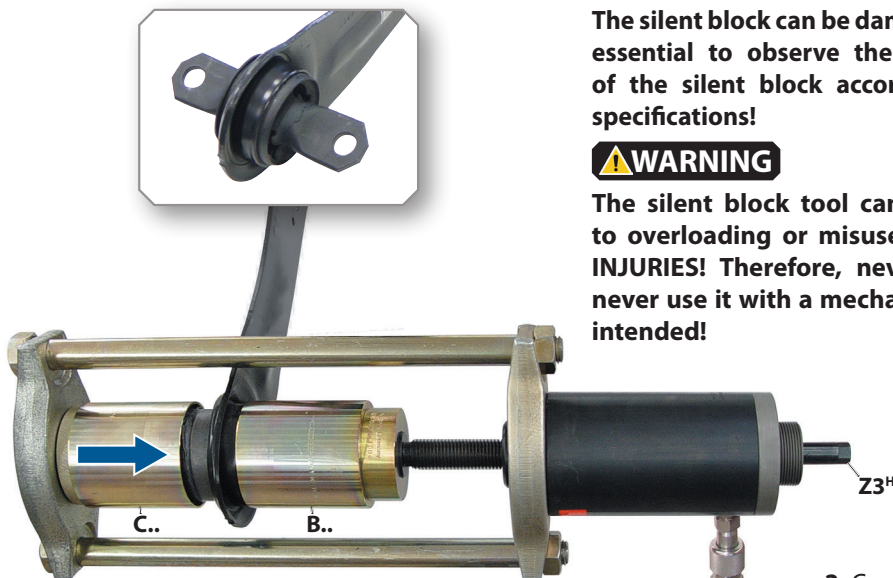
Fig 6: Forcing in the silent block in a controlled manner according to the manufacturer's specifications...

CAUTION

The silent block can be damaged during forcing in! It is therefore essential to observe the installation direction and position of the silent block according to the vehicle manufacturer's specifications!

WARNING

The silent block tool can break and be hurled around due to overloading or misuse. This can cause DEATH or SEVERE INJURIES! Therefore, never overload the silent block tool, never use it with a mechanical drive or in any other way than intended!



3. Align the silent block according to manufacturer's specifications, operate the hydraulic hand pump [Z4^H], while observing the pressure on the pressure gauge, and force in the silent block in a controlled manner up to the correct position.

4. Remove the silent block tool and to conclude, check the correct position of the silent block.

2. Connect the hydraulic hand pump [Z4^H] to the hydraulic cylinder [Z3^H].

