

## KL-0326-1000 B /-161 E

Press Bracket for Suspension Joints



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## 1. READ AND UNDERSTAND FOR YOUR SAFETY



These operating instructions are intended to familiarise you with the operation of the press bracket. Therefore read and understand these operating instructions **before using** the press frame and observe all safety and warning instructions for safe use! Misuse can result in **DEATH** or **SEVERE INJURIES!** The operating instructions are a part of the press bracket. 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 press bracket! The press bracket 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 press bracket **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 brake fluid tester!

### 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 press bracket **must** ensure that **only** trained personnel in specialised vehicle workshops use the press bracket!

▼ The owner of the press bracket **must** ensure that the instructions for use are available to the user and that the user has completely read and understood the operating instructions for use **before** using the press bracket!

▼ The owner of the press bracket **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 press bracket...

▼ **may only** be used for pressing in and out suspension/guide joints!

▼ **may only** be used up to a **max. load of 14 tonnes or 17 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 press bracket...

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

▼ **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 (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!

⚠ **Always** use the press frame as intended. Any other use can result in **DEATH** or **SEVERE INJURIES!**

## 1.5 Personal protective equipment

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



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

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



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

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







Always wear **SAFETY SHOES** (e.g. DIN EN ISO 20345, OSHA 29 CFR 1910.136, ANSI Z41) when using the press bracket to protect yourself against dropping parts!

When working with the press bracket, dropping 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
 <b>WARNING</b>	<b>Indicates</b> a hazardous situation, which, if not avoided, could cause <b>DEATH</b> or <b>SERIOUS INJURIES</b> .
 <b>CAUTION</b>	<b>Indicates</b> a hazardous situation which, if not avoided, could cause <b>MODERATE</b> or <b>MINOR INJURIES</b> .
 <b>CAUTION</b>	<b>Indicates</b> a situation which, if not avoided, could cause damage to the tool or an object in its vicinity.
	<b>Note</b> on important information and useful tips.

## 1.7 Work environment

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

- When using the press bracket, the workplace **must** be clean and tidy.
- When using the press bracket, the workplace **must** be sufficiently large and illuminated.
- When using the press bracket, the workplace **must** be on a solid and non-skidding floor.
- When using the press bracket, the workplace **must** be safeguarded against access of unauthorised persons.
- When using the press bracket, 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 escape when using the press bracket and thus pose a hazard to the environment.

- When using the press bracket, **immediately** remove leaking hydraulic oil as well as excess molybdenum disulphide paste (using oil binding agents or a cleaning cloth, for example).
- When using the press bracket, in case of skin contact with hydraulic oil, clean the affected area **immediately** with degreasing soap and water.
- When using the press bracket, dispose of pollutants such as hydraulic oil and molybdenum disulphide paste **always in an environmentally friendly manner**.
- When using the press bracket, 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 / CAUTION - Failure to observe this warning may result in an accident or death**

When using the press bracket, **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!

- ✔ Read and understand these operating instructions **before using** the press bracket and observe all safety and warning instructions for **safe use!**
- ✔ **Always** work with the press bracket in accordance with the basic regulations on work safety, accident prevention and environmental protection!
- ✔ **Always** use the press bracket 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.
- ✔ **Before each use**, check the press bracket **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 press bracket!
- ✔ **Always** observe the vehicle-specific manufacturer's specifications when working with the press bracket!
- ✔ Secure the press bracket and in particular the hydraulic cylinder against falling down and flinging around, for example by holding it or by using the **GEDORE** safety retaining belt - **KL-0040-2590** or, alternatively, the retaining device **KL-0040-258 A!**
- ✔ **Never** use the press bracket with a machine-operated 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 perforated press bracket for batch processing with numerous forcing in/out processes within a few minutes!
- ✔ **Never** use the press bracket when you are tired or under the influence of alcohol, drugs, or medication!
- ✔ **Before using** the press bracket, make sure that **no** unauthorised persons are in the immediate environment!
- ✔ **Always** observe the **max. loading capacity** when using the press bracket, and **never** exceed it!
- ✔ Wear your personal protective equipment such as safety goggles, protective gloves, safety shoes during work!
- ✔ **Always** make sure that the press bracket is securely attached to the vehicle!
- ✔ **Never** leave the press bracket unattended in loaded condition on the wheel bearing!
- ✔ **Never** hit the press bracket with a hammer or other objects and **never** clamp it in a vice!
- ✔ **Always** avoid dropping, hitting or knocking the press bracket, especially when it is under load! **Always** place it on a clean shelf or workbench to prevent it from falling down!
- ✔ **Never** operate the hydraulic pump if it is not connected to the hydraulic cylinder. Otherwise, the pressure hose and the connecting pieces can be damaged!
- ✔ **Always** use the hydraulic pump together with a pressure gauge specially adapted to the hydraulic cylinder for safe pressure control!
- ✔ **Always** check whether all technical specifications comply with the requirements of the hydraulic cylinder before using the hydraulic cylinder!
- ✔ **Never** use the hydraulic pump on hydraulic cylinders which are used for lifting, lowering and supporting loads!
- ✔ **Never** use the hydraulic pump with a hydraulic cylinder that pumps more oil back into the tank than the hydraulic pump can hold.
- ✔ If an existing hydraulic hand pump in the workshop is to be used as the drive for the **GEDORE Automotive** hydraulic cylinder, it **must first be equipped with a GEDORE Automotive** pressure gauge matched to the hydraulic cylinder!
- ✔ Stop work **immediately** if you are unsure about using the press bracket and contact **GEDORE Automotive if necessary!**
- ✔ For safety reasons, ensure that a damaged press bracket 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 press bracket **regular** intervals and **only** when the tool is depressurised! Poor and improper maintenance can damage the press bracket, thus causing **DEATH** or **SEVERE INJURIES!**

### Prior to each use:

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

## 1.11 Troubleshooting

**Only** perform troubleshooting on the press bracket 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 press bracket.

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

## 1.13 Repair

### **WARNING**

Improper repair of the press bracket can result in **DEATH** or **SEVERE INJURIES**.

- ✔ If damage, loose parts or unauthorised modifications have been found on the press bracket, 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** for the press bracket!
- If necessary, contact the **GEDORE Automotive** for a professional inspection and repair of the press bracket.

## 1.14 Environmentally friendly disposal

Dispose of the press bracket brake fluid tester the 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-0326-1... - Press frame series for suspension/guide joints

#### KL-0326-161 E - Press bracket kit for suspension joints

Universally suitable for vehicles with pressed suspension/guide joints on the front or rear axle.

Particularly suitable, for example...

...on the lower suspension/guide joint and stabiliser joint of the front axle on Mercedes:

E-Class (W211, W124), CLS (W219), S-Class (W220), SL (W230), 190 (W201).

...on the lower suspension/guide joint of the front and rear axle on Mercedes: M-Class (W163).

...on the upper suspension/guide joint of the front axle on Volkswagen: Transporter T4 (7D).

In conjunction with the required drive parts, the press bracket kit enables quick, professional removal and installation of suspension/guide joints directly on the vehicle. Time-consuming removal of the steering knuckle is not necessary.

#### Required drive parts

##### Hydraulic:

KL-0039-1930 - Thrust spindle M20 x 350mm

KL-0040-2500 - Hydraulic cylinder

KL-0215-35 M25 - Hydraulic hand pump

##### Mechanical:

KL-0174-620 - Mechanical spindle

KL-0174-853 - Thrust piece for mechanical spindle

KL-0174-547 - Adapter 2 ¼"-14 UNS to M20x2



#### Scope of supply / Single part overview

See Chapter 2.3

#### KL-0326-1000 B - Press bracket (basic tool)

In conjunction with the corresponding pressure/support sleeves, adapter rings and required drive parts, the press bracket enables quick, professional pressing out and pressing in of suspension/guide joints directly on the vehicle. Time-consuming removal of the steering knuckle is not necessary.

#### Required drive parts

##### Hydraulic:

KL-0039-1930 - Thrust spindle M20 x 350mm

KL-0040-2500 - Hydraulic cylinder

KL-0215-35 M25 - Hydraulic hand pump

##### Mechanical:

KL-0174-620 - Mechanical spindle

KL-0174-853 - Thrust piece for mechanical spindle

KL-0174-547 - Adapter 2 ¼"-14 UNS to M20x2

#### Necessary accessories

KL-0039-16.. - Short pressure/support sleeves

KL-0326-1.. -



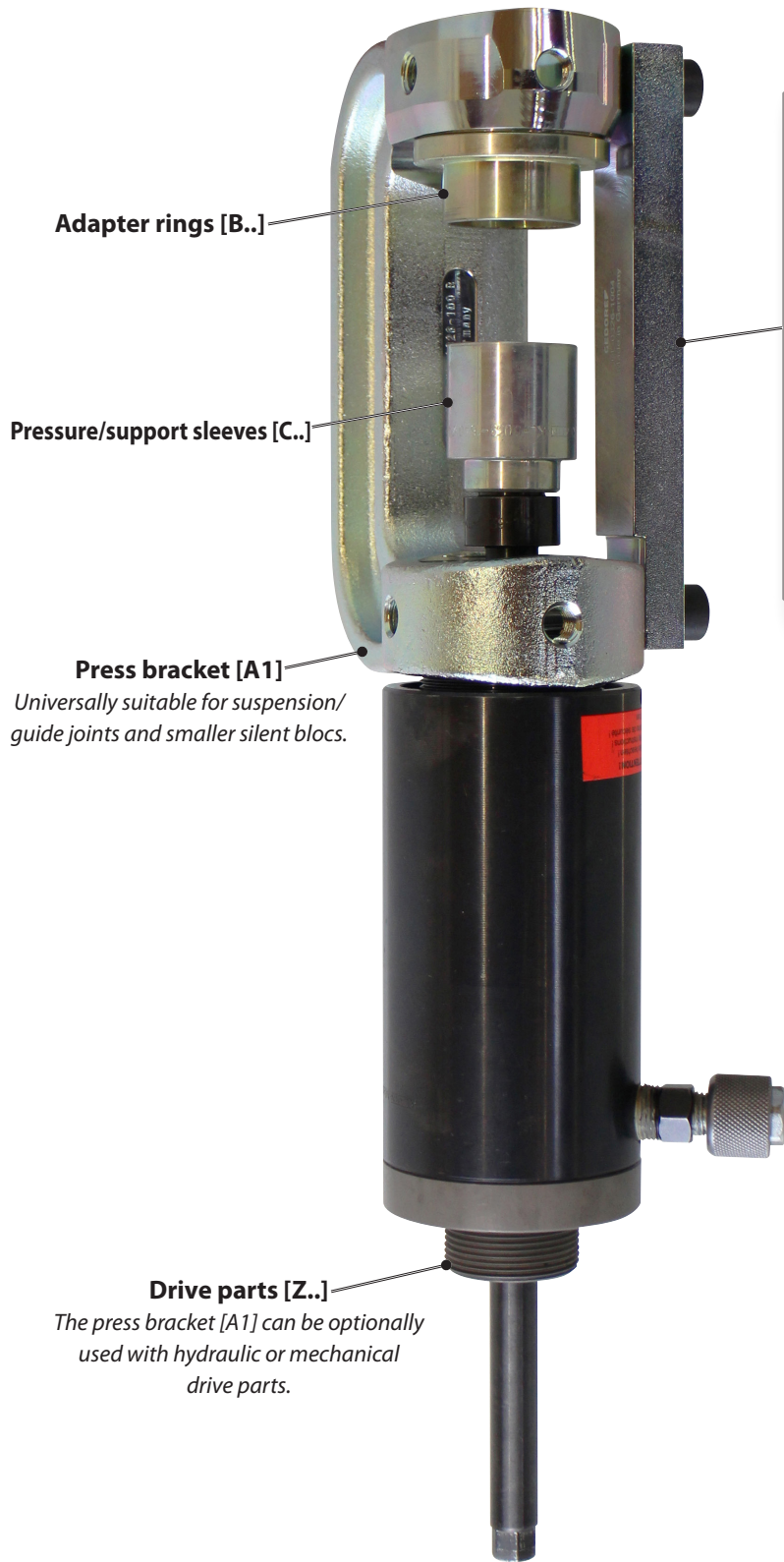
#### Scope of supply / Single part overview

See Chapter 2.3



**2.2 Component overview**

**i** This overview shows basic components, designations, and information on the press bracket.  
A detailed overview of the scope of delivery/individual parts can be found in **chapter 2.3**.



**Reinforcement bar [A2]**  
*By fitting the reinforcement bar [A2], the maximum load on the press bracket [A1] can be increased from 14 tonnes to 17 tonnes.*

*Depending on the space available on the vehicle, various installation examples of the reinforcement bar [A2]:*

WITHOUT	LEFT	MIDDLE	RIGHT

**Suspension/guide joint**  
*Depending on the support/guide joint or position of the stop, it must be pressed out or pressed in in the corresponding direction!*

Lower stop	Upper stop

## 2.3 Scope of delivery / Overview of the single parts

**i** The table shows all components of the press bracket series.

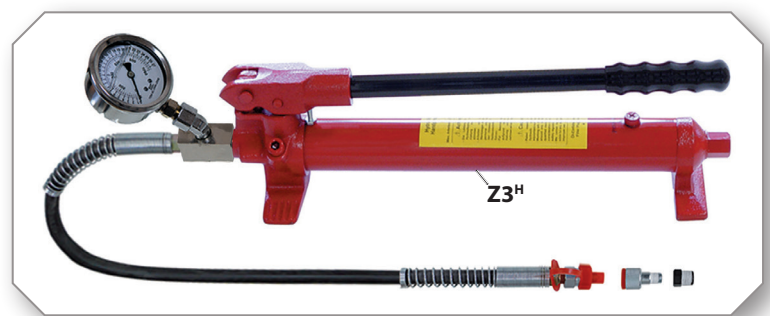
Prior to using the press bracket, check that all the parts included in the scope of delivery are available.

		Press bracket KL-0326-1000 B	Press bracket kit KL-0326-161 E
<b>Basic tools... <b>A</b></b>			
KL-0326-1001 B - Press bracket	<b>A1</b>	●	●
KL-0326-1004 - Reinforcement bar	<b>A2</b>	●	●
KL-0326-1003-1 - Cheese-head screw	<b>A3</b>	2x ●	2x ●
<b>Adapter rings... <b>B</b></b>			
KL-0326-1111 - Adapter ring, internal-Ø 51mm	<b>B1</b>		●
KL-0326-1311 - Adapter ring, internal-Ø 38mm	<b>B2</b>		●
KL-0326-1312 A - Adapter ring, internal-Ø 51/47mm	<b>B3</b>		●
KL-0326-1411 - Adapter ring internal-Ø 34/38mm	<b>B4</b>		●
<b>Pressure/support sleeves... <b>C</b></b>			
KL-0039-1634 - Pressure/support sleeve short, external-Ø 34mm	<b>C1</b>		●
KL-0039-1640 - Pressure/support sleeve short, external-Ø 40mm	<b>C2</b>		●
KL-0039-1642 - Pressure/support sleeve short, external-Ø 42mm	<b>C3</b>		●
KL-0039-1650 - Pressure/support sleeve short, external-Ø 50mm	<b>C4</b>		●
KL-0326-1314 - Pressure/support sleeve short, external-Ø 56mm	<b>C5</b>		●
KL-0326-1313 A - Pressure/support sleeve short, external-Ø 60mm	<b>C6</b>		●
KL-0043-8662 A - Thrust sleeve double, external-Ø 44/ 52mm	<b>C7</b>		●
KL-0350-5102 - Pressure/support sleeve short, external-Ø 34mm	<b>C8</b>		●
<b>Drive parts... <b>Z</b></b>			
...hydraulic	KL-0039-1930 - Thrust spindle M20 x 350mm	<b>Z1<sup>H</sup></b>	
	KL-0040-2500 - Hydraulic cylinder, 17t	<b>Z2<sup>H</sup></b>	
	KL-0215-35 M25 - Hydr. hand pump 17t	<b>Z3<sup>H</sup></b>	
...mechanical	KL-0174-853 - Thrust piece for mech. spindle	<b>Z1<sup>M</sup></b>	
	KL-0174-547 - Adapter 2 ¼"-14 UNS to M20x2	<b>Z2<sup>M</sup></b>	
	KL-0174-620 - Mechanical spindle	<b>Z3<sup>M</sup></b>	
<b>Storage Systems:</b>			
KL-4999-1319 - Foam insert	-		●



**2.4 Specifications**

- Max. load of press bracket without reinforcement bar: ..... 14t
- Max. load of press bracket with reinforcement bar [A2]: ..... 17t
- Max. load of hydraulic cylinder [Z2<sup>H</sup>]: ..... 17t



## 3. PREPARATION

### 3.1 Preparing the vehicle

📷1: Prepare suspension/guide joint accordingly...



1. Lift the vehicle safely and prepare all necessary parts for the subsequent work in accordance with the manufacturer's instructions.

**For example:**

Unscrew the wheel, expose the suspension/guide joint and remove the fastening nut if present. If necessary, also remove the brake disc and heat protection plate.

### 3.2 Preparing the tool

📷2: Prepare the press bracket [A1] accordingly...

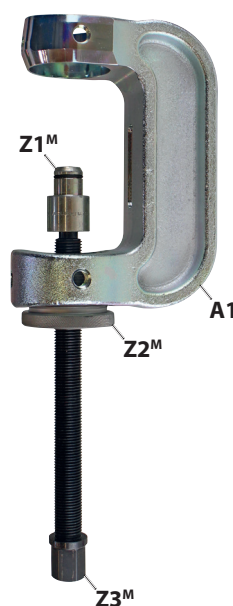
#### ⚠️WARNING

The press bracket can break and spin around if a mechanical drive is used. This can cause **DEATH** or **SEVERE INJURIES!** Therefore, only drive the press bracket by hand using muscle power, a manual drive or a manually driven GEDORE Automotive hydraulic cylinder/pump combination with a suitable pressure gauge for safe pressure control!

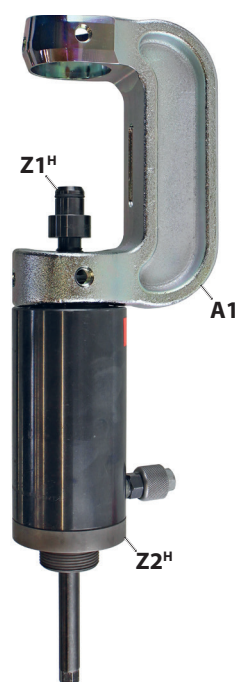
1. Prepare the press bracket as shown, either with **hydraulic** or **mechanical** drive parts.

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

#### MECHANICAL drive parts



#### HYDRAULIC drive parts





## 4. TYPICAL APPLICATION

**i** This application example describes the hydraulic pressing out and pressing in of a support/guide joint on a steering knuckle using the press bracket series. Whether mechanical or hydraulic drive parts, the process always follows the same principle.

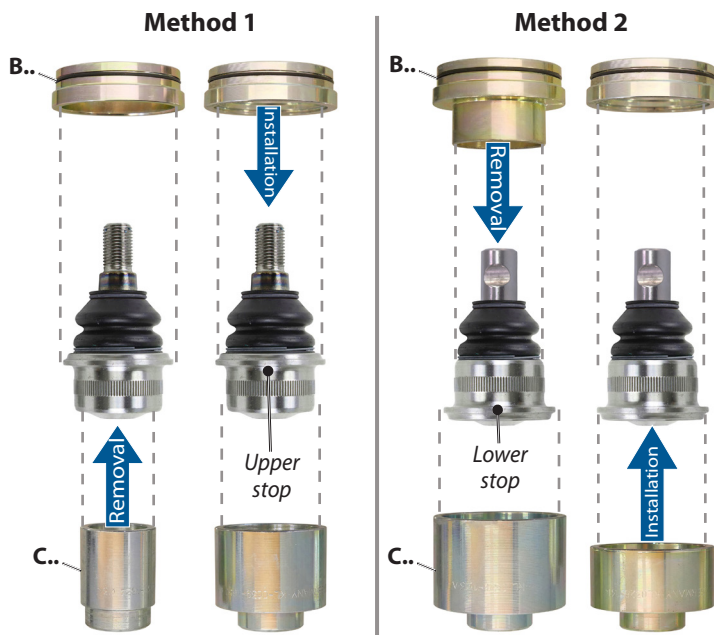
### 4.1 Determining adapter rings as well as pressure/support sleeves

**3:** Determine suitable adapter rings [B..] and pressure/support sleeves [C..] depending on the suspension/guide joint.

**i** There are basically two different methods for pressing out and pressing in a suspension/guide joint. Depending on the position of the stop, it is either pressed out or pressed in via the adapter ring [B..] or the pressure/support sleeve [C..] in the corresponding direction.

**CAUTION**

The suspension/guide joint can be damaged if the wrong adapter rings [B..] and pressure/support sleeves [C..] are used. It is therefore essential that the outer Ø of the thrust side is smaller than the outer Ø of the suspension/guide joint and the inner Ø of the support side is larger!



1. Determine suitable adapter rings [B..] and pressure/support sleeves [C..] depending on the diameter-Ø of the suspension/guide joint and the required removal and installation method.

**i** Vehicle-specific combinations, see below.

<p><b>Mercedes W163</b> Lower suspension joint of the front and rear axle</p>	<p><b>Mercedes W211, W219, W220, W230</b> Lower suspension joint of the front axle</p>	<p><b>Mercedes W201, W124</b> Lower suspension joint of the front axle</p>	<p><b>Volkswagen T4</b> Upper suspension joint of the front axle</p>	<p><b>Mercedes W211, W219, W220, W230</b> Stabiliser joint of the front axle</p>
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## 4.2 Forcing out the suspension/guide joint

**📷4:** Position the press bracket [A1] correctly on the suspension/guide joint.

### CAUTION

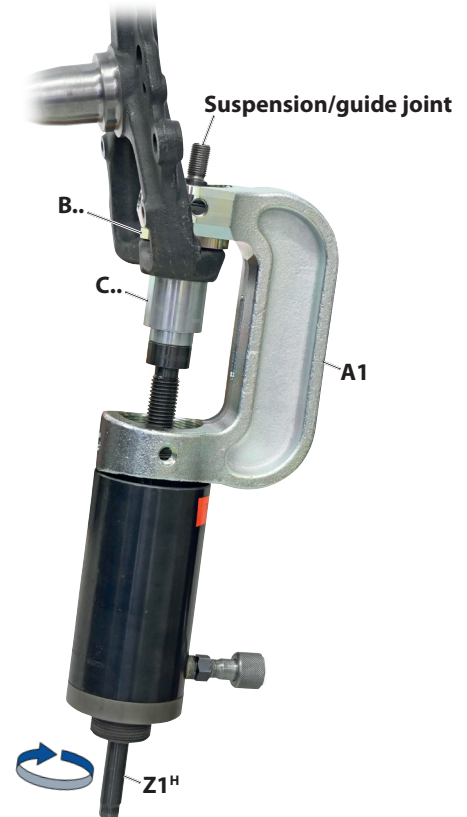
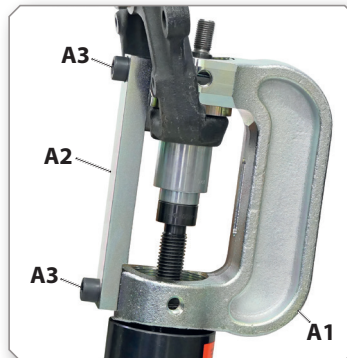
The suspension/guide joint can collide with the press bracket during pressing out and damage it! It is therefore essential to align the press bracket so that it rests on the entire surface, is at right angles to and centred on the component and the suspension/guide joint can be pressed out without collision!

1. Insert the adapter ring [B..] determined in **chapter 4.1** and the pressure/support sleeve [C..] in the correct position on the press bracket.

Now place the press bracket in the correct position on the suspension/guide joint as shown and screw in the thrust spindle [Z1<sup>H</sup>] until the pressure/support sleeve [C..] is in full contact with the suspension/guide joint.

ⓘ If the suspension/guide joints are extremely tight, the maximum load on the press bracket [A1] can be increased from **14** to **17** tonnes by fitting the reinforcement bar [A2].

Tighten the screws [A3] to 25Nm.



**📷5:** Press out the suspension/guide joint in a controlled manner.

### WARNING

The press bracket can break and spin around due to overloading or misuse. This can cause **DEATH** or **SEVERE INJURIES!** Therefore, never overload the press bracket, never use it with a mechanical drive or in any other way than intended!

2. Connect the hydraulic cylinder [Z2<sup>H</sup>] to the hydraulic pump [Z3<sup>H</sup>].

Now actuate the hydraulic pump [Z3<sup>H</sup>], always observing the pressure on the pressure gauge, and press out the support/guide joint in a controlled manner.

ⓘ The max. stroke of the hydraulic cylinder [Z2<sup>H</sup>] is 45 mm! As soon as it is reached: Interrupt the pressing process, release the pressure at the hydraulic pump [Z3<sup>H</sup>], turn the thrust spindle [Z1<sup>H</sup>], continue the pressing process.



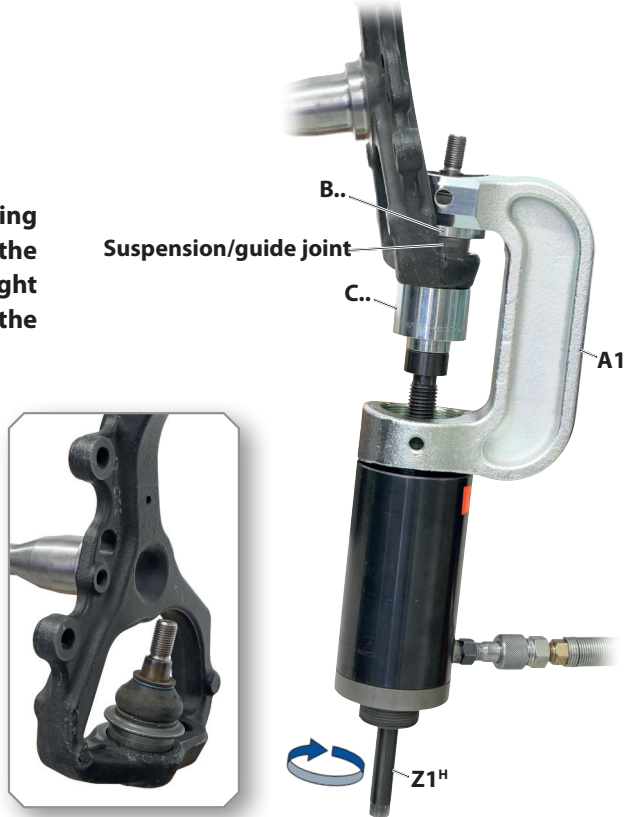
**4.3 Forcing in the suspension/guide joint**

**📷6:** Position the press bracket [A1] and suspension/guide joint correctly on the vehicle.

**CAUTION**

The suspension/guide joint can be damaged during press-fitting! It is therefore essential to align the suspension/guide joint and the press bracket at right angles and in the centre of the mounting hole on the vehicle!

1. Insert the adapter ring [B..] determined in **chapter 4.1** and the pressure/support sleeve [C..] in the correct position on the press bracket. Now place the press bracket together with the suspension/guide joint in the correct position on the mounting hole on the vehicle as shown and screw in the thrust spindle [Z1<sup>H</sup>] until the suspension/guide joint is fully in contact with the mounting hole.



**📷7:** Press in the suspension/guide joint in the correct position according to the manufacturer's specifications.

**CAUTION**

The suspension/guide joint can be damaged during press-fitting! It is therefore essential to observe the installation direction and installation position according to the vehicle manufacturer's specifications!

**⚠️WARNING**

The press bracket can break and spin around due to overloading or misuse. This can cause **DEATH** or **SEVERE INJURIES!**

Therefore, never overload the press bracket, never use it with a mechanical drive or in any other way than intended!

2. Actuate the hydraulic pump [Z3<sup>H</sup>], always observing the pressure on the pressure gauge, and press in the suspension/guide joint in a controlled manner in accordance with the manufacturer's instructions.



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