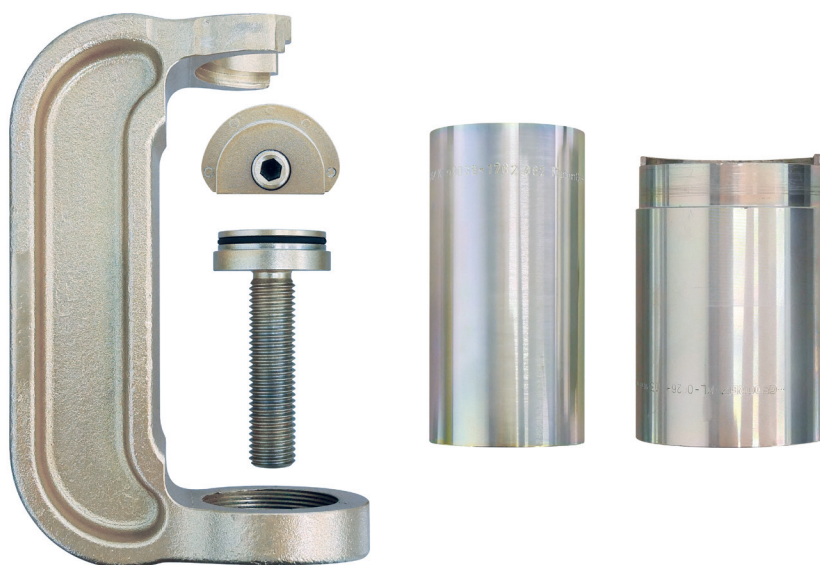


KL-0626-11

Press Bracket Set for Suspension Joints, Ford Transit



GEDORE Automotive GmbH

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



www.gedore-automotive.com



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**ENGLISH****EN**

Manufacturer's address

GEDORE Automotive Limited Company

Breslauer Straße 41 // 78166 Donaueschingen - GERMANY

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

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TABLE OF CONTENTS

i This table of contents contains **interactive elements** with which the desired **chapters** can be accessed quickly and conveniently on digital devices with just one **click**.

1. READ AND UNDERSTAND FOR SAFETY	4
1.1 Target group	4
1.2 Obligations of the owner	4
1.3 Intended use	4
1.4 Reasonably foreseeable misuse	4
1.5 Personal protective equipment	5
1.6 Labelling of the warnings	5
1.7 Working environment	5
1.8 Emissions	5
1.9 Basic safety, warning and handling instructions	6
1.10 Maintenance	7
1.11 Problem treatments	7
1.12 Care / storage	7
1.13 Maintenance	7
1.14 Environmentally friendly disposal	7
2. PRODUCT DESCRIPTION	8
2.1 KL-0626-11 - Press bracket set for suspension joints, Ford Transit	8
2.2 Scope of delivery/single part overview	8
2.3 Technical data	9
3. PREPARATION	10
3.1 Prepare vehicle	10
3.2 Prepare tool	10
4. APPLICATION EXAMPLE	11
4.1 Press out suspension joint	11
4.2 Press in support joint	12

1. READ AND UNDERSTAND FOR SAFETY



These Operating instructions are part of the **crimping tool** and are intended to familiarise you with this special tool. Read and understand these Operating instructions before using the special tool and follow all instructions, regulations and notes for safe use. Keep the Operating instructions in a safe place so that you or subsequent users can access them at any time. Be aware that misuse of the special tool can, in the worst case, lead to **DEATH** or **SERIOUS INJURY**! Stop work immediately if you are unsure how to use the special tool and contact **GEDORE-Automotive** if necessary.

1.1 Target group

These Operating instructions are intended **exclusively** for trained specialists with comprehensive expertise in the repair of motor vehicles = motor vehicles.

- ▶ The special tool **may only** be used in specialist automotive workshops by trained specialists who have the necessary expertise in handling special automotive tools and are familiar with the applicable regulations on occupational safety, accident prevention and environmental protection.
- ▶ The special tool **must never** be used by unauthorised, inexperienced, underage or physically, sensory or mentally impaired persons, **or** by persons who are tired or under the influence of medication, alcohol, drugs or similar intoxicating substances.

1.2 Obligations of the owner

According to the Ordinance on Industrial Safety and Health, employers are obliged to provide their employees with safe work equipment! The special tool from GEDORE-Automotive complies with the recognised rules of technology and relevant safety regulations at the time it is placed on the market.

- ▶ **The owner** of the special tool **must ensure that only** trained specialists in specialist vehicle workshops use the special tool!
- ▶ **The owner** of the special tool **must ensure** that the user has access to the associated instructions and has read and understood them in full **before** using the special tool!
- ▶ **The owner** of the special tool **must ensure** that the user has the necessary expertise in handling special automotive tools, is familiar with the applicable regulations on occupational safety, accident prevention and environmental protection and is provided with personal protective equipment!

1.3 Intended use

The press bracket ...

- ... **may only** be used **on cars and vans, in particular on the vehicles mentioned in chapter 2!**
- ... **may only** be used **to press out and press in the suspension joints on the front axle!**
- ... **may only be used** up to a **maximum load of 6 Tonnes** may be used!
- ... **may only** be used **by hand using muscle power with a manually driven GEDORE Automotive hydraulic cylinder/pump combination with pressure gauge for safe pressure control!**
- ... **may only** be used **with GEDORE Automotive original spare parts and accessories!**
- ... **may only** be used **in the manner described in these Operating instructions!**

⚠ Any other use may result in **DEATH** or **SERIOUS INJURIES** !

1.4 Reasonably foreseeable misuse

The press bracket ...

- ... **must never** be used **to press out or press in other parts or in any other way than intended!**
- ... **must never** be used **with an impulse or impact wrench!**
- ... **must never** be used **with a machine drive, a machine-driven hydraulic cylinder/pump combination or a drive other than that intended!**
- ... **must never** be used **for series production with many repetitive work processes!**
- ... **must never** be used **with a bridged, modified or removed safety device!**
- ... **must never** be modified, converted or misused without authorisation!

⚠ **Always** use the special tool as intended. Any other use may result in **DEATH** or **SERIOUS INJURY** !

1.5 Personal protective equipment

For your own safety, wear personal protective equipment when using the special tool! The special tool can cause mechanical hazards such as crushing, cuts and impact injuries.



Wear **EYE PROTECTION EQUIPMENT** (e.g. DIN EN 166, OSHA 29 CFR 1910.133, ANSI Z87) when using the special tool to protect against flying parts or particles!

►When using the special tool, flying parts or particles can cause **SERIOUS INJURY** to your **eyes** !



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

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



Wear **SAFETY SHOES** (e.g. DIN EN ISO 20345, OSHA 29 CFR 1910.136, ANSI Z41) when using the special tool to protect against falling parts!

►When using the special tool, falling parts can cause **SERIOUS INJURY** to your **feet and toes** !

1.6 Labelling of the warnings

Warning notices indicate **potential dangers** which, if ignored, can lead to **DEATH** or **SERIOUS INJURY** in the worst case and must therefore be observed at all times. In these Operating instructions, the warnings are classified as follows for better differentiation and recognisability:

Warning signs	Meaning
WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in DEATH or SERIOUS INJURY !
CAUTION	Indicates a hazardous situation which, if not avoided, may result in MEDIUM or LOW INJURY !
ATTENTION	Indicates a situation which, if not avoided, can lead to damage to the tool or objects in its vicinity!
i	Reference to important information and useful tips.

1.7 Working environment

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

- The workplace **must** be clean and tidy.
- The workstation **must** be sufficiently large and well lit.
- The workplace **must** have a stable and non-slip surface.
- The workplace **must** be secured against access by unauthorised persons.
- The workplace **must** have a room temperature between -10 °C and +40 °C.

1.8 Emissions

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

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

1.9 Basic safety, warning and handling instructions

⚠️ WARNING ⚠️ CAUTION ⚠️ ATTENTION

Disregarding this can lead to life-threatening situations, injuries and damage!

Always observe the following safety, warning and handling instructions when using the special tool and strictly adhere to all measures to avoid life-threatening situations, injuries and property damage due to hazards, misuse, abuse or improper handling.

- ▶ **Use only by specialist personnel:** The special tool may only be used in specialist vehicle workshops by trained specialists who have the necessary expertise and are familiar with the applicable regulations.
- ▶ **Do not use when tired or intoxicated:** The special tool must never be used by unauthorised or impaired persons or by persons who are tired or under the influence of intoxicating substances.
- ▶ **Read the instructions:** The special tool must be used in accordance with these Operating instructions and any instructions for accessories, and all instructions, regulations and notes contained therein must be strictly observed.
- ▶ **Comply with the applicable safety regulations:** The special tool must always be used in accordance with the applicable regulations on occupational safety, accident prevention and environmental protection.
- ▶ **Wear personal protective equipment:** The special tool must always be used with the required protective equipment, such as safety goggles, protective gloves and safety shoes.
- ▶ **Only use original parts:** The special tool may only be used with original spare parts and accessories from GEDORE-Automotive.
- ▶ **Check before use:** The special tool must be checked for damage, loose parts, unauthorised modifications and suitability for the intended application before use.
- ▶ **Regular safety checks:** For safety reasons, the special tool should be subjected to a safety check every 24 months by authorised GEDORE-Automotive specialists.
- ▶ **Do not use if damaged or defective:** The special tool must not be used in the event of damage or other defects and must be checked and repaired before the next use.
- ▶ **Repairs or maintenance only by specialised personnel:** For safety reasons, the special tool may only be repaired or maintained by specially trained GEDORE-Automotive personnel.
- ▶ **Interrupt work immediately if handling is unsafe:** The special tool must not be used if it is unsafe to handle. If necessary, consult the instructions or obtain support from GEDORE-Automotive.
- ▶ **Clean and lubricate regularly:** The special tool, in particular the moving parts and the spindle, must be checked regularly for contamination, cleaned if necessary and treated with approved lubricants.
- ▶ **Do not use mechanical drives:** The special tool must never be used with mechanical drives, but only after its intended use with a manual drive using muscle power.
- ▶ **Comply with vehicle-specific application procedures:** The special tool must always be used in accordance with the vehicle manufacturer's instructions and specifications for vehicle-specific application sequences.
- ▶ **Secure the immediate working area:** The special tool may only be used if there are no unauthorised persons in the immediate working area.
- ▶ **Ensure stability:** The special tool must generally be checked for stability and a secure hold, in particular the hydraulic cylinder must be secured against falling and being thrown about, e.g. by holding it firmly or using a safety holding strap or a holding device from GEDORE-Automotive.
- ▶ **Never exceed the maximum load:** The special tool must never be overloaded or operated with a higher load than the maximum permissible.
- ▶ **Never use for series production:** The special tool must never be used for series production, especially not for processes that are repeated quickly and carried out at short intervals.
- ▶ **Never leave unattended when under load:** The special tool must never be left unattended on the vehicle or component, especially when under load.
- ▶ **Avoid damaging effects of force:** The special tool must never be impaired by impacts, clamping or other damaging effects of force, especially not when under load.
- ▶ **Cleaning after use:** The special tool may only be cleaned after use with a clean, dry cleaning cloth. Immersion in water, solvents or other cleaning fluids is strictly prohibited.
- ▶ **Environmentally friendly disposal:** The special tool and packaging material must always be disposed of in an environmentally friendly manner in compliance with legal requirements. If in doubt, contact the local authorities.
- ▶ **Exclusion of liability, warranty and guarantee:** The special tool must always be used in compliance with the safety regulations. In the event of disregard or misuse, the user assumes sole responsibility and GEDORE-Automotive excludes any liability, warranty or guarantee claims.
- ▶ **Disclaimer regarding documentation:** The special tool and its use are carefully described in these instructions, but technical changes, errors, incompleteness, inaccuracies, mistakes and damage or consequences due to incorrect use or misuse can never be ruled out.

1.10 Maintenance

Carry out maintenance on the special tool regularly and only when it is depressurised! Insufficient or improper maintenance can cause damage to the special tool and result in life-threatening situations, serious injuries and property damage during use.

Before each use:

- ▶ check the special tool carefully for damage, loose parts or unauthorised modifications **before each use**.
- ▶ **before each use**, check the moving parts and spindles on the special tool for free movement and contamination. If necessary, clean and then lubricate them exclusively with molybdenum disulphide paste (e.g. **GEDORE Automotive - KL-0014-0030**).

Recommended every 24 months:

- ▶ Have the special tool professionally checked for safety **every 24 months** by authorised GEDORE-Automotive specialists.

1.11 Troubleshooting

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

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

Cause: Hydraulic coupling contaminated or loose.

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

Problem: Hydraulic hand pump builds up no pressure or only very slowly.

Cause: 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 any missing hydraulic oil (**HLP 32 or 46**) on the hand pump.

1.12 Care / storage

ATTENTION

Improper care and storage can lead to damage to the special tool.

- ▶ **Never** immerse the special tool in water, solvents or other cleaning fluids.
- ▶ **Only** clean the special tool with a dry and clean cleaning cloth.
- ▶ **Only** protect the special tool with special acid-free oils or greases for tool care.
- ▶ **Always** store the special tool in a dry and clean place together with the corresponding Operating instructions.

1.13 Maintenance

WARNING

Improper repair of the special tool can lead to **DEATH** or **SERIOUS INJURY**.

- ▶ If damage, loose parts or unauthorised modifications are found on the special tool, it must no longer be used for safety reasons!
 - ▶ Repairs may only be carried out by specially trained personnel at **GEDORE Automotive**!
 - ▶ **Only** use original spare parts and accessories from **GEDORE Automotive** for the special tool!
- If necessary, please contact us at **GEDORE Automotive** for a professional inspection and repair of the special tool.

1.14 Environmentally friendly disposal

Dispose of the special tool and packaging material in an environmentally friendly manner in accordance with the legal requirements. If necessary, ask your local authority about environmentally friendly disposal options.

2. PRODUCT DESCRIPTION

2.1 KL-0626-11 - Press bracket set for suspension joints, Ford Transit

Suitable for the lower suspension/guide joints on the front axle of Ford Transit vehicles with front-, rear- and all-wheel drive.

Installed e.g. in Ford Transit 5 (V184 / V185, 01.2000 - 05.2006), Transit 6 (V347 / V348, 04.2006 - 12.2014), Transit 7 (V363, 08.2013 - ...), Transit Custom 1 (V362, 04.2012 - ...) and others.

Not suitable for bolted support/guide joints, e.g. in vehicles with reinforced chassis!

- Special press bracket for the professional replacement of the lower suspension joints on the front axle.
- Quick removal and installation of the suspension joints directly on the vehicle within a few minutes.
- No additional removal of brake disc or drive shaft required.
- Robust forged C-frame made of special steel, loadable up to 6 Tonnes load capacity.
- To be used similarly to OEM no. Ford 204-288A.
- Additional drive parts required!

2.2 Scope of delivery/single part overview/drive parts

 This table shows all the components for the press bracket.

Before using it, check that all parts included in the scope of delivery are present and assemble the additional parts required accordingly.

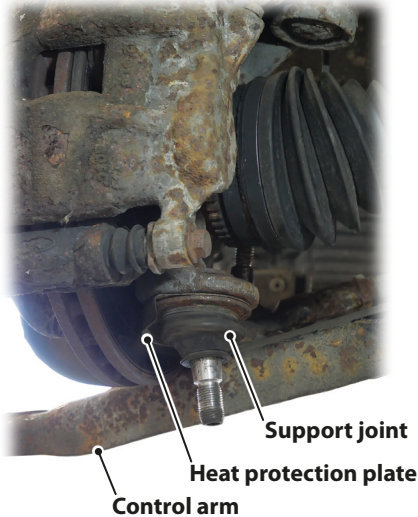
Individual parts...		Pos.	Tool set... KL-0626-11
Press bracket... 			
KL-0626-1101-1 - Press bracket		A	●
Thrust piece with thrust screw... 			
KL-0626-1101-2 M - Thrust piece (for suspension joint removal)		B2	●
KL-0626-1101-3 - Thrust screw		B1	●
Pressure/support sleeves... 			
KL-0626-1103 - Supporting sleeve (for suspension joint removal)		C1	●
KL-0039-1762 - Thrust sleeve (for suspension joint installation)		C2	●
Threaded foot... 			
KL-0626-1102 M - Threaded foot		D	●
Drive parts... 			
...Hydraulic	KL-0040-2500 - Hydraulic cylinder 17 t	Z1	+
	KL-0215-35 M25 - Hydraulic hand pump 17 t	Z2	+
● = Included in Scope of delivery / + = Additionally required			



3. PREPARATION

3.1 Prepare vehicle

📷 1: Prepare the suspension 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, loosen the control arm, expose the suspension joint and remove the retaining ring.

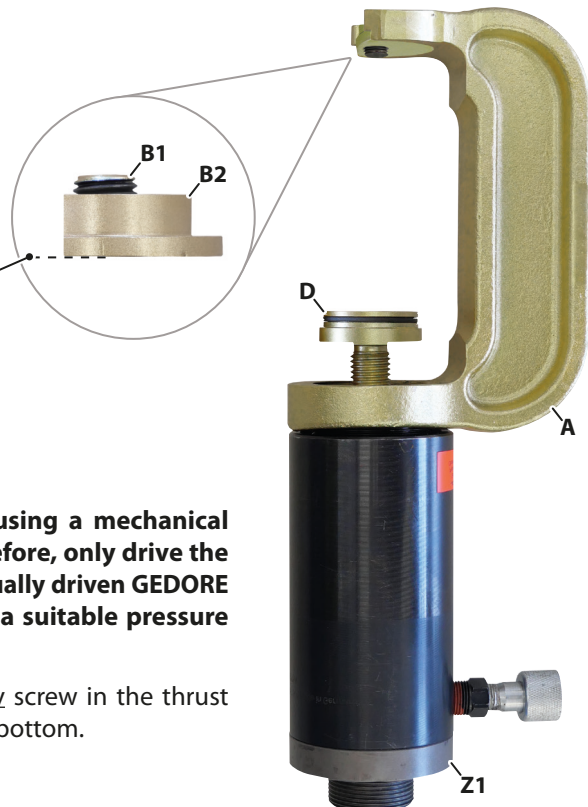
3.2 Prepare the tool

📷 2: Prepare the press bracket accordingly...

ATTENTION

The thrust screw [B1] and the thrust piece [B2] can be damaged when pressing out the suspension joint! Therefore, initially only screw in the thrust screw [B1] flush with the bottom of the thrust piece [B2].

📌 Only screw in the thrust screw [B1] flush!



⚠ WARNING

The press bracket can break and spin around when using a mechanical drive. This can lead to DEATH or SERIOUS INJURY! Therefore, only drive the pressing yoke by hand using muscle power with a manually driven GEDORE Automotive hydraulic cylinder/pump combination with a suitable pressure gauge for safe pressure control!

1. Prepare and assemble the press bracket as shown. Only screw in the thrust screw [B1] on the thrust piece [B2] until it is flush at the bottom.

4. APPLICATION EXAMPLE

① This application example describes the pressing out and pressing in of a suspension joint on the front axle using the press bracket and hydraulic drive parts.

4.1 Press out the ball joint

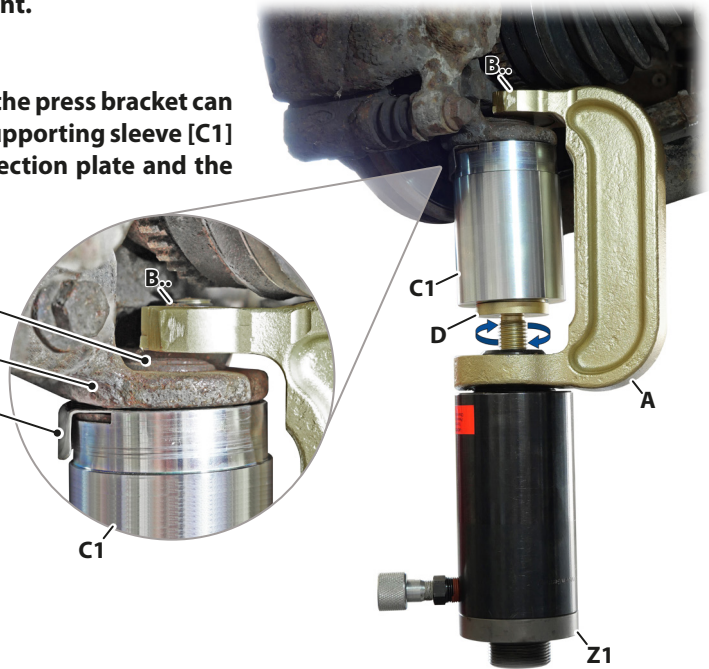
📷 3: Position the press bracket correctly on the ball joint.

ATTENTION

The heat protection plate on the suspension joint and the press bracket can be damaged when pressing out! Therefore, align the supporting sleeve [C1] so that it engages with the recess over the heat protection plate and the suspension joint can be pressed out without collision.

Support joint
Steering knuckle
Heat protection plate

1. Assemble the press bracket as shown and attach it to the ball joint. Unscrew the threaded foot [D] until the supporting sleeve [C1] is in the correct position and in full contact with the steering knuckle.



📷 4: Press out the suspension joint in a controlled manner.

⚠️ WARNING

Overloading or misuse can cause the press bracket to break and fling around. This can lead to DEATH or SERIOUS INJURY! Therefore, never overload the press bracket, never use it with a mechanical drive or in any other way than intended!

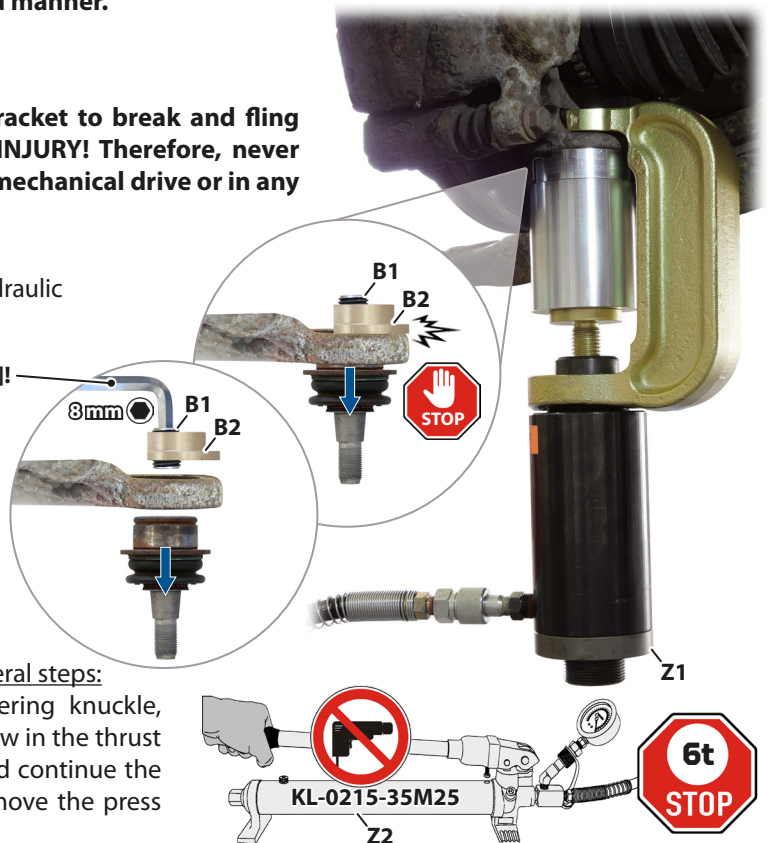
2. Connect the hydraulic hand pump [Z2] to the hydraulic cylinder [Z1].

① Screw in the thrust screw [B1]!

3. Align the press bracket exactly in the centre of the ball joint. Operate the hydraulic hand pump [Z2], observing the pressure on the pressure gauge, and press out the suspension joint controlled in several steps.

① The suspension joint must be pressed out in several steps:

If the thrust piece [B2] is resting on the steering knuckle, release the pressure at the hand pump [Z2], screw in the thrust screw [B1] until it rests against the ball joint and continue the pressing process. In confined spaces briefly remove the press bracket.

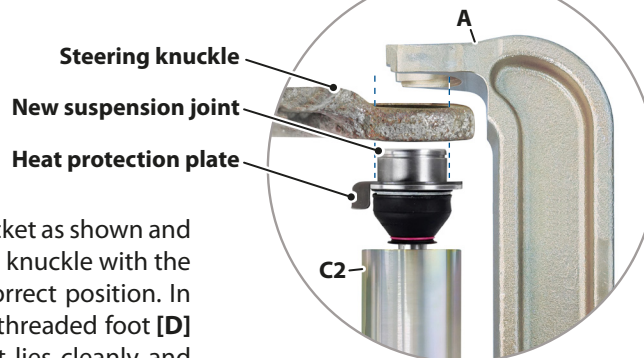


4.2 Press in the ball joint

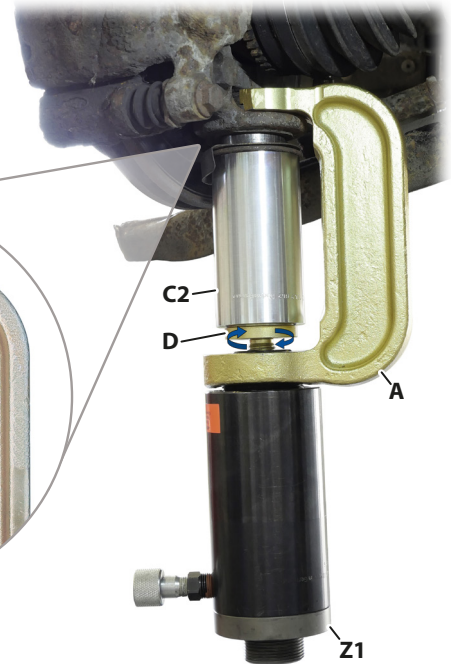
65: Position the press bracket with ball joint correctly on the steering knuckle.

ATTENTION

The suspension joint and the press bracket can be damaged during press-fitting. The press bracket must therefore be aligned so that it is perpendicular and centred to the locating hole on the steering knuckle and cannot collide with the top of the suspension joint.



1. Assemble the press bracket as shown and attach it to the steering knuckle with the new ball joint in the correct position. In doing so, unscrew the threaded foot [D] until the new ball joint lies cleanly and squarely in the hole on the steering knuckle.



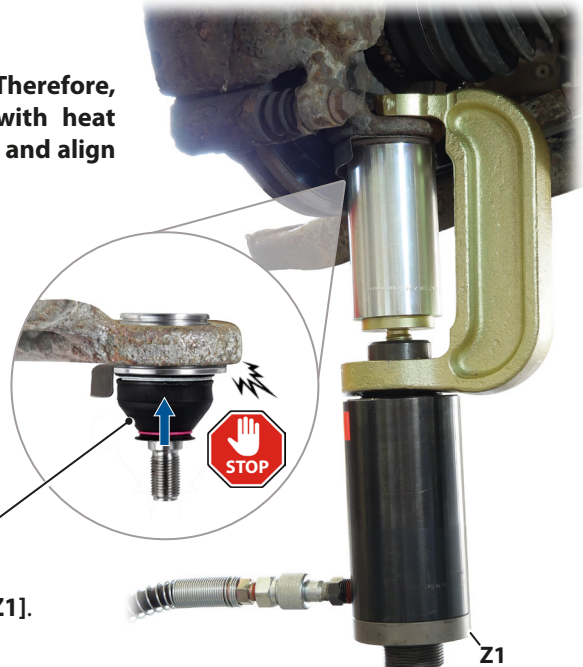
66: Press in the ball joint in the correct position according to the manufacturer's specifications.

ATTENTION

The suspension joint can be damaged during press-fitting! Therefore, observe the correct installation position of the ball joint with heat protection plate according to the manufacturer's specifications and align the press bracket so that it cannot collide with the ball joint!

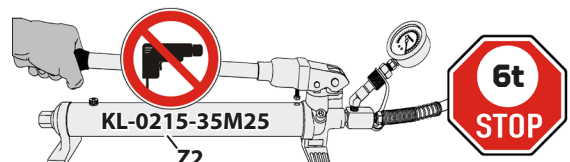
WARNING

Overloading or misuse can cause the press bracket to break and fling around. This can lead to DEATH or SERIOUS INJURY! Therefore, never overload the crimping tool, never use it with a mechanical drive or in any other way than intended!



i Press in the suspension joint as far as it will go!

2. Connect the hydraulic hand pump [Z2] to the hydraulic cylinder [Z1].
3. Align the press bracket with the ball joint exactly in the centre of the mounting hole on the steering knuckle and observe the position of the heat plate in accordance with the manufacturer's specifications. Actuate the hydraulic hand pump [Z2], observing the pressure on the pressure gauge, and press in the ball joint in a controlled manner as far as it will go.
4. Relieve the pressure on the hydr. cylinder [Z1], check the position of the suspension joint and continue the work according to the manufacturer's instructions.









GEDORE Automotive GmbH

Breslauer Str. 41
78166 Donaueschingen / GERMANY
Tel: +49 771 83 223 0
Fax: +49 771 83 223 90
www.gedore-automotive.com

GEDORE Headquarter:

GEDORE Werkzeugfabrik GmbH & Co. KG

Remscheider Str. 149
42899 Remscheid / GERMANY
Tel: +49 2191 596 900
Fax: +49 2191 596 999
www.gedore.com

GEDORE International:

GEDORE Torque Solutions GmbH

Bertha-Benz-Straße 12
71665 Vaihingen/Enz
GERMANY
Tel: +49 70 42 94 41 0
Fax: +49 70 42 9441 41
www.gedore-torque-solutions.com

GEDORE France SARL

Parc d'activités des Béthunes – La Mare II 10, avenue du Fief – Bâtiment 12
BP 79144 - Saint-Ouen-L'Aumône / 95074 CERGY PONTOISE CEDEX
FRANCE
Tél: +33 1 34 40 16 60
Fax: +33 1 34 40 16 61
www.gedore.fr

GEDORE Polska Sp. z o.o.

Żwirki i Wigury 56, Mikołów
POLAND
Tel: +48 32 738 40-10
Fax: +48 32 738 40-20
www.gedore.pl

GEDORE Tools South Africa (PTY) Ltd.

103 Qashana Khuzwayo Road, Durban / Kwazulu-Natal
New Germany, 3610
SOUTH AFRICA
Tel: +27 3 17 05 35 87
Fax: +27 3 17 05 47 35
www.gedore.co.za

GEDORE Tool Trading Co., Ltd. Shanghai, China

1/F., Block 2, 1358 Pingan Road
Minhang, Shanghai, China 201109
CHINA
Tel: +86 21 33 88 72-58
Fax: +86 21 33 88 72-59
www.gedore.cn

GEDORE Ibèrica S.L., Spain

c/Arangutxi 12, Poligono Industrial de Júndiz
01015 Vitoria Alava
SPAIN
Tel: +34 945 292 262
Fax: +34 945 292 199
www.gedore.es

GEDORE AUSTRIA GmbH

Gedore-Straße 1
8190 Birkfeld
AUSTRIA
Tel: +43 3174 3636 0
Fax: +43 31 74 36 38 320
www.gedore.at

GEDORE Technag BV, Netherlands

Flemingweg 7
2408 AV Alphen aan Den Rijn
NETHERLANDS
Tel: +31 1 72 42 73 50
Fax: +31 1 72 42 73 60
www.gedore.nl

GEDORE India Pvt. Ltd.

Plot No. 148, Sector-3, IMT Manesar
Gurugram, Haryana-122051
INDIA
Tel: +91 124 4087979
www.gedore.in

Ferramentas GEDORE do Brasil S.A.

Rua Vicentina Maria Fidélis, 275 Bairro Vicentina
São Leopoldo - RS - CEP: 93025-340
BRASIL
Tel: +51 35 89 92 00
Fax: +51 35 89 92 22
www.gedore.com.br

GEDORE UK Ltd.

Marton St, Skipton
North Yorkshire BD23 1TF
UNITED KINGDOM
Tel: +44 17 56 70 67 00
Fax: +44 17 56 79 80 83
www.gedoreuk.com

GEDORE Tools Inc. USA

300 Langner Rd., Suite 250
West Seneca, NY 14224
USA
Tel: +1 843 225 5015
www.gedoretools.com