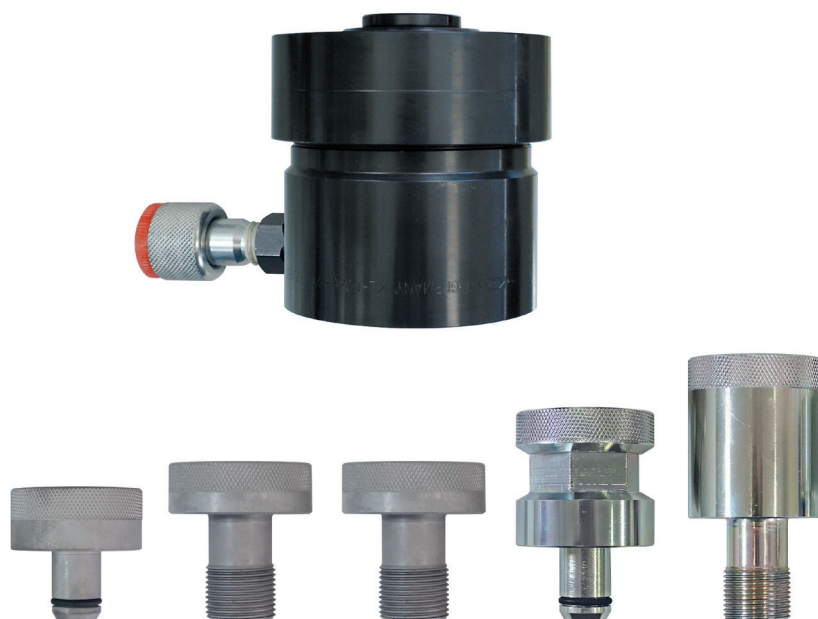


## KL-1029-20 A

Forcing Wheel Press / Body Press



**ENGLISH****EN**

## Address of the manufacturer

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## 1. FOR YOUR SAFETY



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

### 1.1 Target group

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

The press **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 press!

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

✔ The owner of the press **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 press!

✔ The owner of the press **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 forcing wheel press / body press ...**

✔ **may only be used** to press off stuck wheels from the wheel hub as well as for various straightening work on body parts!

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

✔ **may only** be used up to a **max. load of 17 tonnes!**

✔ **may only** be used with a manually operated **GEDORE Automotive** hydraulic cylinder/pump combination with manometer for safe pressure control.

✔ **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 forcing wheel press / body press ...**

✔ **must never be used** for pressing in and out bearings, bushings, or other items other than intended!

✔ **must never** be used with a drive other than that intended for it!

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




✔ **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 press **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 press! The press 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 press to protect yourself against flying parts or particles!
  - ▶ When using the press, 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 press to protect yourself against sharp edges and crushing between parts!
  - ▶ When working with the press, 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 press to protect yourself against dropping parts!
  - ▶ When working with the press, 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>	Indicates a hazardous situation which, if not avoided, could cause <b>DEATH</b> or <b>SEVERE INJURIES</b> .
 <b>CAUTION</b>	Indicates a hazardous situation which, if not avoided, could cause <b>MODERATE</b> or <b>MINOR INJURIES</b> .
 <b>ATTENTION</b>	Indicates a situation which, if not avoided, can cause damage to the tool or an object in its vicinity.
 <b>i</b>	<b>Note</b> on important information and useful tips.

### 1.7 Basic warnings

#### **WARNING - Danger to life from MISUSE**

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

- ▶ Read and understand these operating instructions **before using** the press and observe all safety and warning instructions for **safe use**!
- ▶ **Always** work with the press in accordance with the basic regulations on work safety and accident prevention!
- ▶ **Only** use the press as described in these operating instructions!
- ▶ **Always** observe the vehicle-specific application procedures in the vehicle manufacturer's repair guide!
- ▶ **Never** use the press if it is damaged or has loose parts or unauthorised modifications!
- ▶ **Never** use the press with an inadmissible drive. Drive it **exclusively** with a manually driven **GEDORE Automotive** hydraulic cylinder/pump combination with pressure gauge for safe pressure control!
- ▶ **Always** wear your personal protective equipment (*safety goggles, protective gloves, safety shoes*) during work!
- ▶ **Never** hit the press with a hammer or anything similar!

## ⚠ WARNING - Danger to life from OVERLOAD

**OVERLOAD** can cause the press 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 press!
- ✔ **Never** use the press if it is damaged or has loose parts or unauthorised modifications!
- ✔ **Never** use the press with an inadmissible drive. Drive it **exclusively** with a manually driven **GEDORE Automotive** hydraulic cylinder/pump combination with pressure gauge for safe pressure control!
- ✔ Secure the press on the vehicle to prevent it from flinging around, for example using the safety retaining belt - **KL-0040-1790!**
- ✔ **Always** wear your personal protective equipment (*safety goggles, protective gloves, safety shoes*) during work!

## ⚠ CAUTION - Danger of injury from DROPPING

There is a risk of the press **DROPPING** during preparation and use. This can cause **MEDIUM** or **LIGHT INJURIES** of legs and feet!

- ✔ Avoid dropping the press at **all costs!**
- ✔ **Always** make sure that the press is securely attached to the vehicle!
- ✔ Secure the press on the vehicle to prevent it from dropping, for example using the safety harness - **KL-0040-1790!**
- ✔ **Never** leave the press unattended in loaded condition on the vehicle!
- ✔ Deposit the press **safely** against falling down, for example on a workbench!
- ✔ **Always** wear your personal protective equipment (*safety goggles, protective gloves, safety shoes*) during work!

## ATTENTION - Risk of DAMAGE

The vehicle and the press can be **DAMAGED**.

- ✔ **Always** observe vehicle-specific application procedures in the vehicle manufacturer's repair guide.
- ✔ Always choose a sufficiently stable surface on the vehicle frame and the rim to press the wheel.
- ✔ **Never** clamp the press in a vice.

## 1.8 Basic safety instructions

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

- ✔ Read and understand these operating instructions **before using** the press 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 press in accordance with the basic regulations on work safety and accident prevention!
- ✔ **Never** use the press when you are tired or under the influence of alcohol, drugs, or medicaments!
- ✔ **Before each use**, check the press **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!
- ✔ Carry, lift, and position the press with the help of a second skilled person.
- ✔ **Before using** the press, make sure that **no** unauthorised persons are in the immediate environment!
- ✔ **Always** observe the **max. loading capacity** when using the press, and **never** exceed it!
- ✔ **Never** use the press with an unauthorised drive. Drive it **only** with an approved drive!
- ✔ **Never** lift/lower the vehicle with a second lifting device while using the press on the vehicle. Put the lifting equipment out of operation and secure it against unintentional restart!
- ✔ **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 press. Contact **GEDORE Automotive GmbH if necessary!**
- ✔ For safety reasons, stop using the press when you detect any damage on it! Professional inspection and repair may only be carried out by specially trained personnel at **GEDORE Automotive GmbH!**
- ✔ **Always** use the press 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 press 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** have a room temperature between -10°C and +40°C.

## 1.10 Emissions

Molybdenum disulphide paste and hydraulic oil can drip or escape when using the press 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 rag, 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(R) 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 press **at regular intervals** and **only** when the tool is depressurised! Poor and improper maintenance can damage the press, thus causing **DEATH** or **SEVERE INJURIES!**

### Prior to each use:

- ✔ **Prior to each use**, check the press **carefully** for damage, loose parts or unauthorised modifications!

### Recommended: Every 24 months:

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

## 1.12 Troubleshooting

**Always** troubleshoot the press 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.

## 2. PRODUCT DESCRIPTION

### 2.1 KL-1029-20 A - Forcing wheel press / body press

**Fits universally for commercial vehicles, municipal vehicles, agricultural machinery, and passenger cars.**

With the powerful 17 ton press, stuck wheels can be quickly and easily pressed off the wheel hub. The compact design allows various straightening operations on car body parts to be carried out professionally and precisely in confined spaces. The press can be variably adjusted in length from 120 to 250mm by using the thrust pieces and extensions as well as the micro adjustment of the threads.

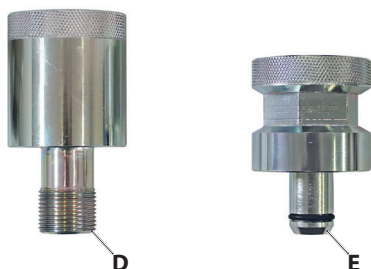
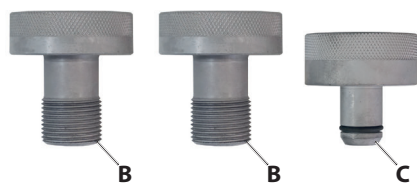
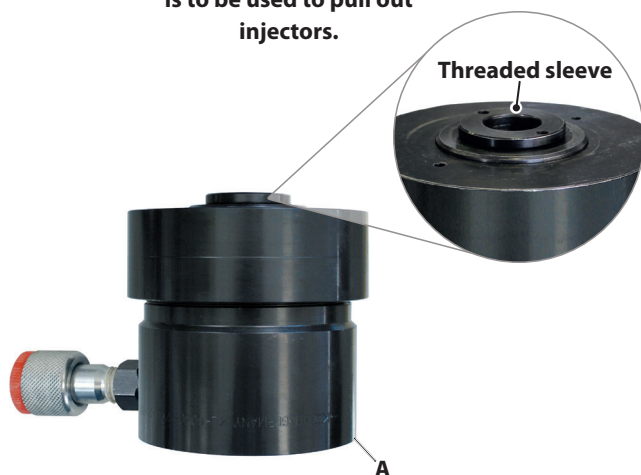
Additional safety is provided by the safety harness which is available as an accessory.

**Required drive parts:** Hydraulic pump - **KL-0215-35 M25**.

**Recommended accessories:** Safety harness for hydr. cylinder 17t short - **KL-0040-1790**

**⚠ Before using the hydraulic cylinder for the first time, the threaded sleeve must be unscrewed using a face hole wrench!**

**This is only needed if the hydraulic cylinder is to be used to pull out injectors.**



### 2.2 Scope of delivery/component overview

Item	Part no.	Description	Qty.
A	KL-0040-1700	Hydr. cyl. 17t short	1
B	KL-1029-2002	Thrust piece with thread	2
C	KL-1029-2004	Thrust piece with O-ring	1
D	KL-1029-2003	Extension with thread	1
E	KL-1029-2001	Extension with O-ring	1

### 2.3 Specifications

Maximum load capacity: ..... 17t

Variable total length:..... 120 ... 250mm

Max. hydr. cylinder stroke:..... 15mm

Weight:..... 4.6kg



### 3. PREPARATION

#### **⚠ WARNING**

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

- ✔ **Prior to using** the press, read and understand **all** safety instructions and warnings listed in **Chapter 1** and **always observe** them **for safe use!**
- ✔ Use the press **as intended** and described in these operating instructions. **Always** observe the vehicle-specific application procedures in the repair manual of the vehicle manufacturer!
- ✔ **Before each use**, check the press **carefully** for damage, loose parts or unauthorised modifications. **Never** use it if you notice any such deficiencies!
- ✔ **Always** wear your personal protective equipment (*safety goggles, protective gloves, safety shoes*) during work!

#### 3.1 Checking the scope of delivery

Before using the press, check that all the parts included in the scope of delivery (*see chapter 2.*) are available, and follow the instructions below.

#### 3.2 Assembling drive parts

#### **⚠ WARNING**

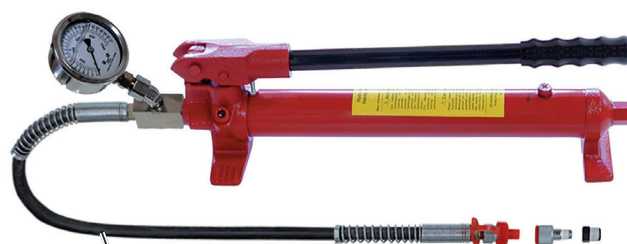
Using a machine-operated drive can cause the press to slip, break, and thus drop or be hurled about. This can cause **DEATH** or **SEVERE INJURIES!**

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

1. Assemble the required drive parts for the press as shown in **📷 1**.

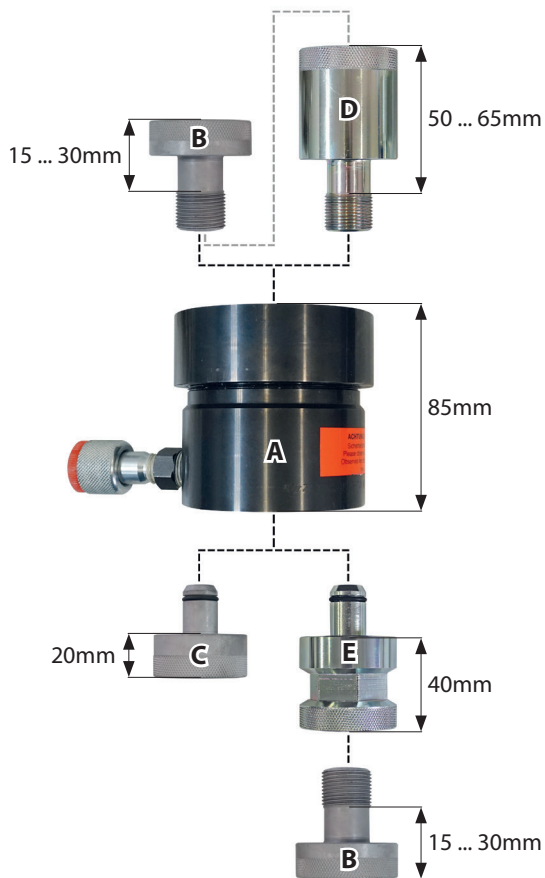
① *For other pressure plates see the GEDORE Automotive catalogue.*

**📷 1:** Required drive parts



**Z** (KL-0215-35 M25 - Hydraulic hand pump 17t)

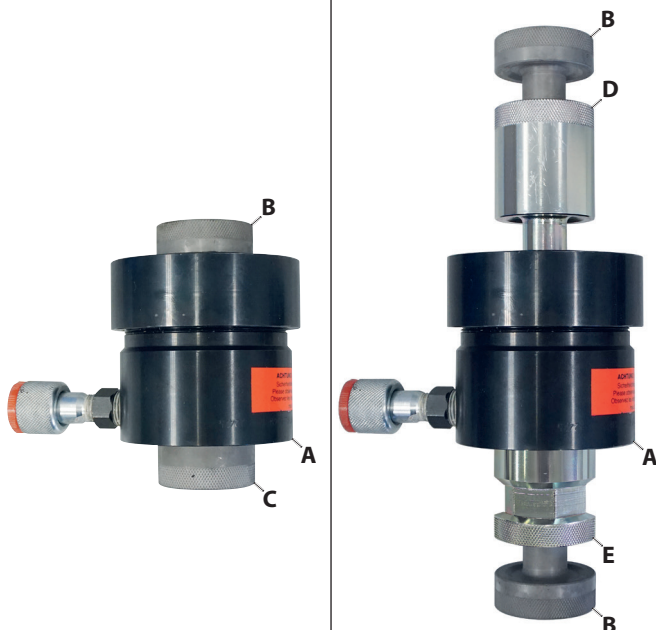
📷 2: Assemble the press depending on the length.



📷 3: Press prepared.

min. 120mm

max. 250mm



### 3.3 Assembling the forcing wheel press

#### ⚠️ WARNING

Wrong assembly can cause the press to slip, break and thus drop or fling around. This can cause **DEATH** or **SEVERE INJURIES**.

- ✔️ **Only** use the pressure pieces and extensions included in the scope of delivery!
- ✔️ **Never** use additional pressure pieces and extensions!
- ✔️ **Always** screw in the thrust pieces [B] and extension [D] until the thread is no longer visible!

1. Assemble the press according to the space available on the vehicle 📷 2. To do this, determine the required length and completely insert or screw in the corresponding thrust pieces and extensions on the hydraulic cylinder [A] 📷 3.

ⓘ By the threads, the thrust pieces [B] and the extension [D] can each be additionally adjusted by **15mm**.

### 3.4 Preparing the vehicle

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

**For example:** To force off the wheel, loosen the screws on the corresponding wheel.

## 4. TYPICAL APPLICATION

This typical example describes the hydraulic removal of a stuck wheel from the wheel hub.

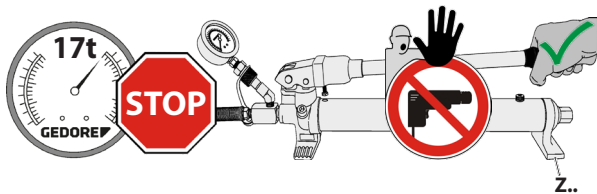
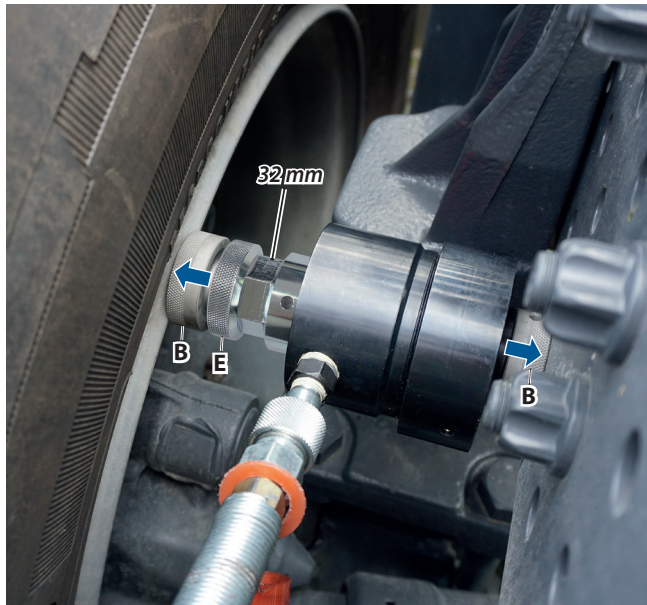
#### ⚠️ WARNING

There is the risk of the press breaking when a machine-operated drive is used. Parts flinging around can cause **DEATH** or **SEVERE INJURIES**.

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

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

**4:** Insert the forcing wheel press and detach the wheel.



The maximum stroke of the hydraulic cylinder [A] is 15mm!

**As soon as it is reached:**

Interrupt the pressing process, release the pressure at the hydraulic pump [Z], re-tighten the thrust pieces [B] or the extension [D] until the press is pretensioned again (*but only so far that the thread is not visible!*); continue the pressing process.

**⚠ WARNING**

The press may break, causing it to drop or fling around. This can cause **DEATH** or **SEVERE INJURIES**.

- Unscrew the thrust pieces [B] and extension [D] to the **maximum** extent that the thread is not visible!
- 2. Insert the press at a suitable point between the rim of the wheel and a stable point on the vehicle frame.

Due to the maximum stroke of the press of 15mm it is necessary to pretension it as **much as possible** by turning the thrust pieces [B] or the extension [D] between the rim and the vehicle frame. Use an open-ended spanner size 32mm to **further** pretension via the extension [E] or, alternatively, by turning the hydraulic cylinder [A] around its own axis.

- ⓘ The safety belt - **KL-0040-1790** available as an *accessory*, enables the press to be secured to the vehicle to prevent it from falling down or flinging around.

**⚠ WARNING**

The press can slip away when the wheel is pressed off, break, and thus fall down or fling around. This can cause **DEATH** or **SEVERE INJURIES**.

- **Never** exceed the **maximum load** of 17t!
- **Constantly** watch the pressure on the pressure gauge at the hydraulic pump [Z] while forcing off.
- While forcing off, **never** stand in the axial extension of the press.
- **Secure** the press on the vehicle to prevent it from falling down, for example using the safety harness - **KL-0040-1790!**
- 3. While operating the hydraulic pump [Z], watch the pressure on the pressure gauge and force the wheel off the wheel hub. **4**

**5. CARE AND STORAGE**

**ATTENTION**

Improper care and storage can damage the press. Therefore, **never** immerse the press 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 press and the operating instructions at a dry and clean place.

**6. REPAIR**

**⚠ WARNING**

For safety reasons, the press must no longer be used if any damage is detected on it! Professional inspection and repair may only be carried out by specially trained specialist personnel at **GEDORE Automotive GmbH**. Improper repair can result in **DEATH** or **SEVERE INJURIES**.

**7. ENVIRONMENTALLY COMPLIANT DISPOSAL**

Dispose of the press 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.

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