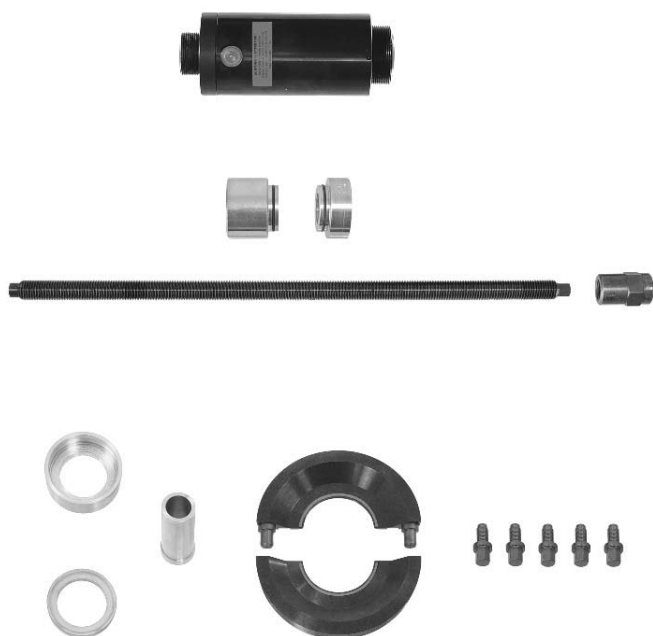


# GEDORE

TOOLS FOR LIFE

## Wheel Bearing Tool with 17t Hydraulic Cylinder (Pat.)



**KL-0041-44 C**

**KL-0041-440 C**

**KL-0041-441 C**



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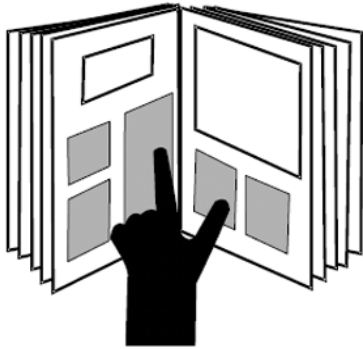
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## 1. Essential Safety Notices

- ⚠** Before using the wheel bearing tool, it is imperative that you read and understand the Instruction Manual. Misuse can lead to **SERIOUS INJURIES** and even **DEATH**. This Instruction Manual is part of the wheel bearing tool. Keep the Instruction Manual in a safe place for future reference and pass it on to subsequent users of the wheel bearing tool. All specific vehicle data stated herein are supplied under reserve and without commitment.

### 1.1 Safety Notices and Warnings

For better differentiation, the warning notices in this Instruction Manual are classified as follows:

Warning sign	Sign reads	Signification
	<b>DANGER</b>	Indicates a hazardous situation which, if not avoided, may result in <b>serious</b> or <b>fatal injuries</b> .
	<b>CAUTION</b>	Indicates a hazardous situation which, if not avoided, may result in <b>moderate</b> or <b>minor injuries</b> .
	<b>ATTENTION</b>	Indicates a situation which, if not avoided, may result in possible damage to the wheel bearing tool or its functioning, or to objects in its vicinity.

#### **⚠ DANGER**

When removing and installing wheel bearings, there is a risk that the tool could break and fall to pieces. This will lead to parts becoming projectiles.

- Observe and do not exceed the maximum load capacity of the tool.
- Use hydraulic pump with pressure gauge **KL-0040-2529**.
- Only use the original spare parts from GEDORE Automotive.
- Always keep all parts of your body away from the axial extension of the tool.

#### **⚠ CAUTION**

A falling tool can cause injuries.

- Use safety belt **KL-0040-2590** to prevent tool from falling.
- Always wear safety shoes/boots.

#### **ATTENTION**

Risk of damage to vehicle and tool.

- Any work on vehicles should only be performed by qualified specialist personnel observing and complying with the directions, provisions, and safety regulations specified by the vehicle manufacturer.
- Always refer to the vehicle manufacturer's data and instructions as only these apply to all work that is carried out on the vehicle.

### 1.2 Personal Protective Equipment

**ALWAYS** wear personal protective equipment when using the wheel bearing tool. The wheel bearing tool can cause mechanical hazards leading to injuries such as contusions, cuts or concussions.



**EYE PROTECTION** (see OSHA 29 CFR 1910.133 and ANSI Z87) designed to protect you from flying debris/objects must be worn when using the wheel bearing tool.

- Particles may be ejected at very high speed when working with the wheel bearing tool and could cause serious injuries to your eyes.



**SAFETY GLOVES** must be worn when using the wheel bearing tool.


- Working with the wheel bearing tool can cause skin abrasions and contusions.



**SAFETY SHOES/BOOTS** with slip resistant soles and steel-toe caps (see OSHA 29 CFR 1910.136 and ANSI 241) must be worn when using the wheel bearing tool.

- Falling parts can cause injuries to feet and toes.

### 1.3 Intended Use


-  The wheel bearing tool is only designed for the installation of wheel hub bearing units to vehicles having a bearing Ø of 72mm such as Audi A2 (from 2000 onwards), Seat Ibiza (from 2002 onwards), Škoda Fabia (from 2000 onwards) and VW Polo (from 2002 onwards), Fox, etc.

The wheel bearing tool may only be used in the manner as described in this Instruction Manual.

- Any other use can result in severe injuries or even death.

### 1.4 Safe and Proper Use

Take the following safety precautions to prevent injuries and damage that could be caused by improper handling or unsafe use of the wheel bearing tool.

-  Misuse can result in extremely severe injuries or even death.
- NEVER overload the wheel bearing tool.
  - ALWAYS check the wheel bearing tool prior to EACH use in order to ensure that it is in good order and condition.
  - ALWAYS replace all damaged and worn parts prior to using the wheel bearing tool.
  - ONLY use the original spare parts and accessories from GEDORE Automotive on the wheel bearing tool.

### 1.5 Work Environment

For safety reasons, work with the wheel bearing tool should only be carried out in a safe work environment.

- The workplace should always be clean and tidy.
- The workplace should be sufficiently large and must be secured.

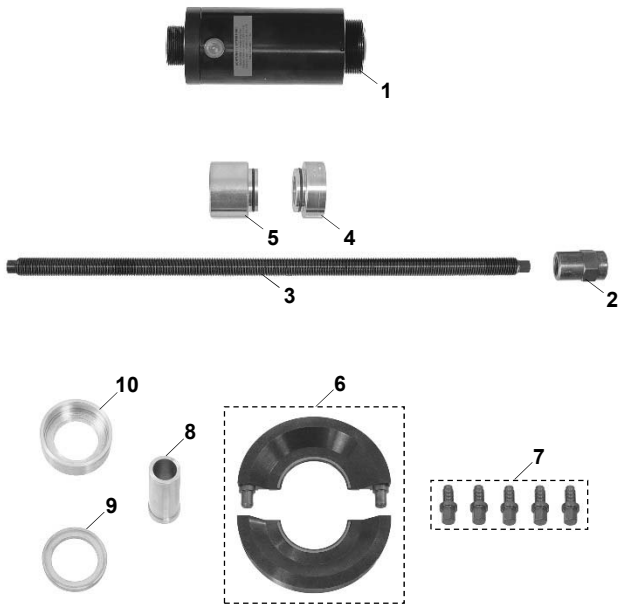
### 1.6 Appropriate Users

This Instruction Manual is designed for technicians/mechanics in workshops.

DO NOT allow children to use the wheel bearing tool.

Purchasers/employers purchasing the wheel bearing tool MUST ensure that any person/employee using the wheel bearing tool have read and understood this Instruction Manual prior to using the tool. This Instruction Manual MUST be made available to the users of the wheel bearing tool for reference at all times.

KL-0041-44 C



**Wheel Hub Bearing Unit:**

Wheel hub bearing unit without snap ring



Wheel hub bearing unit with snap ring



Fig. 1: Removing the wheel hub bearing unit.

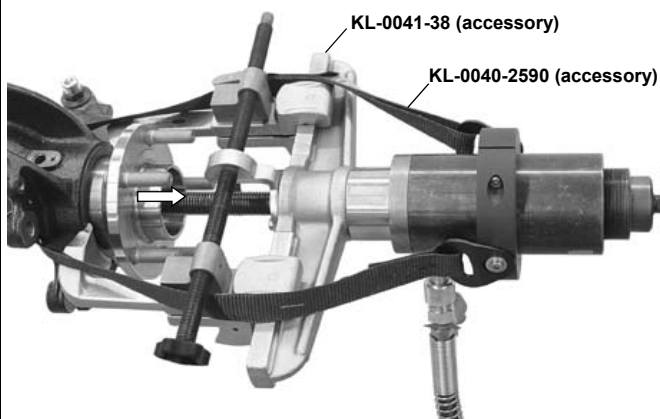
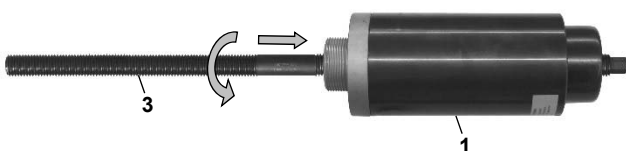


Fig. 2: Screwing the pull spindle into hydraulic cylinder.



**2. Product Description**

**2.1 KL-0041-44 C - Wheel Bearing Tool**

with 17t Hydraulic Cylinder (Pat.)

Suitable for use on vehicles with bearing Ø of 72mm (both with and without snap ring [such as SKF bearings]); e.g. Audi A2 (from 2000 onwards), Seat Ibiza (from 2002 onwards), Škoda Fabia (from 2000 onwards) and VW Polo (from 2002 onwards), Fox, etc.

The KL-0041-44 C wheel bearing tool enables the quick and safe installation of wheel hub bearing units without the risk of damaging them.

Due to the particular design of the wheel hub bearing units, conventional installation by means of a thrust piece under a workshop press or by using standard wheel bearing tools is no longer feasible. This is because, with this type of bearing, the outer bearing race is covered by the wheel hub. GEDORE Automotive have now come up with a solution to this problem with the specifically designed clamping shells which are mounted against the wheel bearing outer race behind the wheel hub, thus allowing for professional installation of the wheel hub bearing units.

The clamping shells feature a securing collar designed to ensure that wheel hub bearing units without snap ring are pressed in completely/into deepened position.

For the removal of wheel hub bearing units, the wheel hub puller KL-0041-38 is needed.

**2.2 Scope of Delivery:**

Pos.	Part No.	Description	Qty
1	KL-0040-2500	Hydraulic Cylinder (17t)	1
2	KL-0040-3009	Clamping Nut, M20	1
3	KL-0039-1920-1	Pull Spindle, M20	1
4	KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
5	KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
6	KL-0041-4400 C	Clamping Shells (Pair), Ø 72mm	1
7	KL-0041-3931	Pressure Screw, M14x1.5	5
8	KL-0039-1802	Centring Sleeve, long, Ø 27.4mm	1
9	KL-0039-1265	Pressure Ring, Ø 65mm	1
10	KL-0039-1674	Pressure-/Support Sleeve, short, Ø 74mm	1

**2.3 Technical Data**

Maximum load capacity of the pull spindle: ..... 20t  
 Maximum load capacity of the hydraulic cylinder: ..... 17t  
 Weight: ..... 15.8kg

**3. Preparatory Work**

Before the first commissioning of the wheel bearing tool, check and confirm you have all the parts listed in the scope of delivery. Then, read and follow the mounting instructions.

**3.1 Checking the Delivery.**

**3.2 Preparing the Vehicle.**

- Loosen and/or remove components as necessary. Remove wheel hub bearing unit using the KL004138 wheel hub puller (accessory). (Fig. 1)

**Note:** Secure tool with safety belt KL-0040-2590 (accessory) to prevent it from falling.

**3.3 Preparing the Tool.**

- Screw pull spindle "3" into hydraulic cylinder "1". (Fig. 2)

Fig. 3: Mounting the clamping shells.

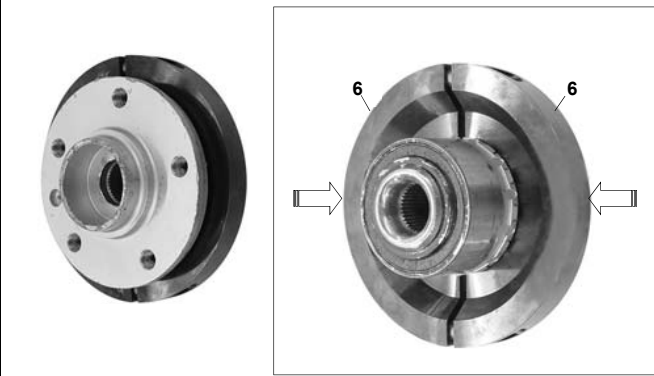


Fig. 4: Mounting the pressure screws.

Screw pressure screws "7" evenly into wheel hub.

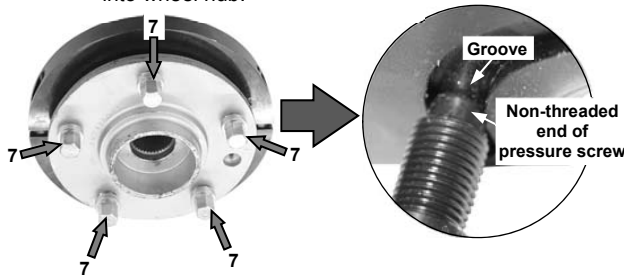
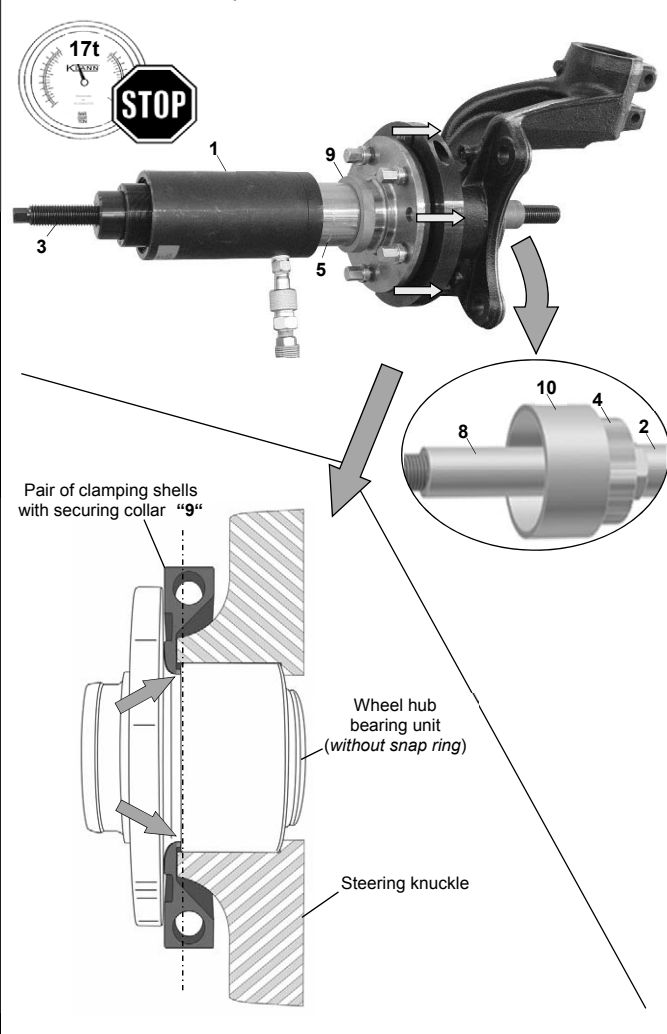


Fig. 5: Mounting the tool to steering knuckle and installing the wheel hub bearing unit.



## 4. Wheel Hub Bearing Unit Installation

The following instructions describe the procedure of installing a wheel hub bearing unit at the front axle.

### Installing the Wheel Hub Bearing Unit

#### 1. **ATTENTION**

Risk of damage to clamping shells "6" and wheel hub bearing unit.

- Make sure that clamping shells "6" are properly seated on the wheel hub bearing unit.

Mount clamping shells "6" to wheel hub bearing unit as shown in Fig. 3.

2. Screw pressure screws "7" evenly into wheel hub until the non-threaded end of pressure screws "7" completely engages the groove of clamping shells "6". Then, tighten screws evenly in a crosswise sequence. (Fig. 4).

**Note:** Use a vernier calliper to check that pressure screws "7" are level with each other if necessary.

#### 3. **CAUTION**

A falling tool can cause injuries.

- Use safety belt KL-0040-2590 to prevent tool from falling.
- Always wear safety shoes/boots.

Mount tool to steering knuckle as shown in Fig. 5.

4. Connect hydraulic cylinder "1" to hydraulic pump (accessory).

#### 5. **DANGER**

When installing the wheel hub bearing unit, there is a risk that pull spindle "3" could break and fall to pieces. This will lead to parts becoming projectiles.

- Observe and do not exceed the maximum load capacity of pull spindle "3" and hydraulic cylinder "1".
- Use hydraulic pump with pressure gauge KL-0040-2529.
- Only use the original spare parts from GEDORE Automotive.
- Always keep all parts of your body away from the axial extension of the pull spindle.

Operate hydraulic pump and install wheel hub bearing unit. (Fig. 5)

During the installation process, read and observe the force indicated on the pressure gauge of the hydraulic pump. Stop the installation process as soon as the wheel hub bearing unit is correctly positioned.

**Note:** With wheel hub bearing units featuring a snap ring, make sure that the snap ring engages completely!

6. Remove tool from steering knuckle. Check the position of the wheel hub bearing unit and reassemble the vehicle according to the manufacturer's directions and instructions.

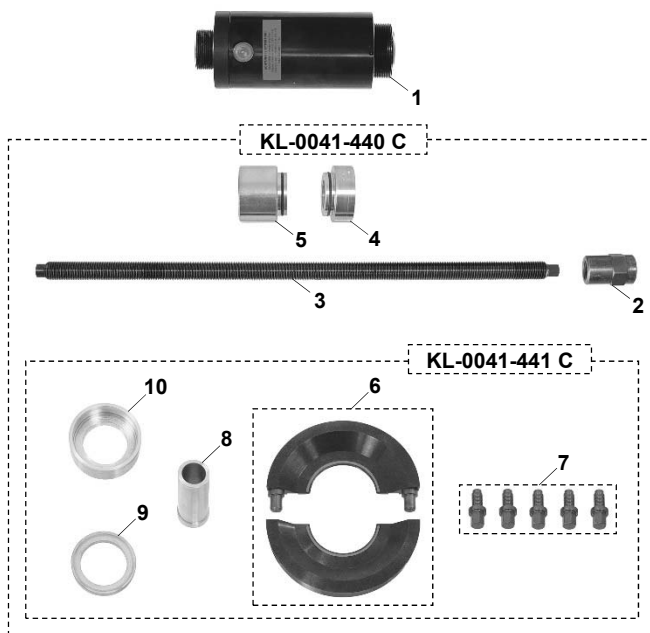
Fig. 6: Accessory: KL-0215-35 M25



Fig. 7: Accessory: KL-0040-2590



Fig. 8: Spare Parts: KL-0041-44 C



## 5. Care and Storage

**ATTENTION** Petroleum ether and chemical solvents can damage plastic parts. Always clean all parts after their use with a clean cloth only. In order to protect against corrosion, lightly lubricate all metal parts after their use with oil and store them in a clean and dry place.

## 6. Accessoires :

### KL-0215-35 M25 - Hydraulic Hand Pump

The hydraulic hand pump **KL-0215-35 M25** is used to drive the hydraulic cylinder **KL-0040-2500**.

### KL-0040-2590 - Safety Belt

By fastening the safety belt **KL-0040-2590** to the vehicle and the **KL-0040-2500** hydraulic cylinder, the latter is prevented from falling.

## 7. Maintenance and Repair by the GEDORE Automotive Service Centre.

For safety reasons, as soon as damage is noticed on the wheel bearing tool, immediate steps must be taken to prevent it from being used. For professional inspection and repair of the wheel bearing tool, please contact the GEDORE Automotive Service Centre.

### Address:

GEDORE Automotive GmbH  
Breslauerstraße 41  
DE-78166 Donaueschingen  
Phone: 0771 83 22 371

email: [service.de@gedore-automotive.com](mailto:service.de@gedore-automotive.com)

For additional information concerning the use of our wheel bearing tool, please contact the GEDORE Automotive Service Centre.

## 8. Spare Parts List

Pos.	Part No.	Description	Qty
-	<b>KL-0041-44 C</b>	<b>Wheel Bearing Tool with 17t Hydraulic Cylinder, Polo, Bearing Ø 72mm</b>	1
<i>composed of:</i>			
1	KL-0040-2500	Hydraulic Cylinder (17t)	1
-	<b>KL-0041-440 C</b>	<b>Wheel Bearing Tool without 17t Hydraulic Cylinder, Polo, Bearing Ø 72mm</b>	1
Pos.	Part No.	Description	Qty
-	<b>KL-0041-440 C</b>	<b>Wheel Bearing Tool without 17t Hydraulic Cylinder, Polo, Bearing Ø 72mm</b>	1
<i>composed of:</i>			
2	KL-0040-3009	Clamping Nut, M20	1
3	KL-0039-1920-1	Pull Spindle, M20	1
4	KL-0039-1002	Retaining Adaptor with O-Rings, for Clamping Nut and Pressure Spindle	1
5	KL-0039-1003	Retaining Adaptor with O-Rings, for Hydraulic Cylinder	1
-	<b>KL-0041-441 C</b>	<b>Upgrade Kit, Polo, Bearing Ø 72mm</b>	1
Pos.	Part No.	Description	Qty
-	<b>KL-0041-441 C</b>	<b>Upgrade Kit, Polo, Bearing Ø 72mm</b>	1
<i>composed of:</i>			
6	KL-0041-4400 C	Clamping Shells (Pair), Ø 72mm	1
7	KL-0041-3931	Pressure Screw, M14x1.5	5
8	KL-0039-1802	Centring Sleeve, long, Ø 27.4mm	1
9	KL-0039-1265	Pressure Ring, Ø 65mm	1
10	KL-0039-1674	Pressure-/Support Sleeve, short, Ø 74mm	1

## 9. Environmentally Safe Disposal

Recycle/dispose of wheel bearing tool and its packaging material in compliance with the legal rules and regulations in force.