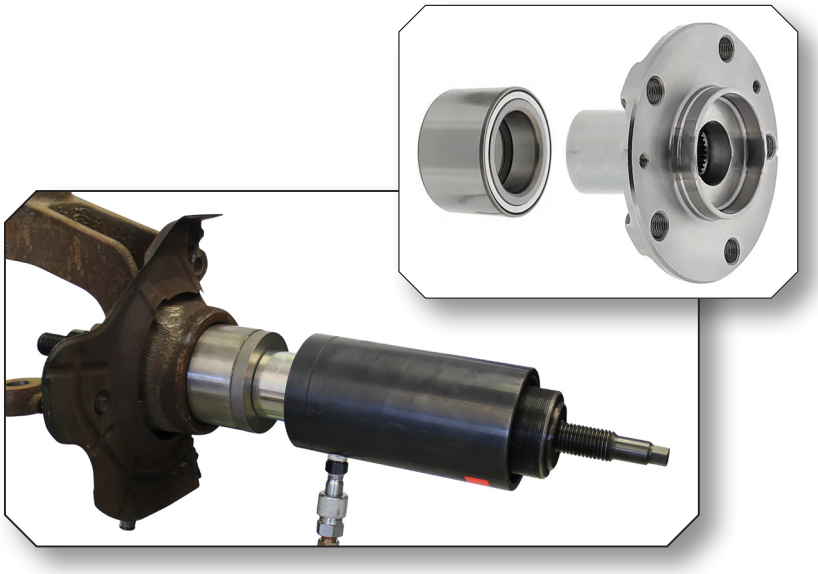
GEDORE
KLANN EXPERIENCE

Operating instructions EN

KL-1611-100 /-101

Wheel Bearing Tool Ducato, Jumper, Boxer, Movano



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CONTENTS

Operating instructions
(Translation of the operating instructions)

1. READ AND UNDERSTAND FOR YOUR SAFETY

Read and understand these operating instructions **before using** the wheel bearing tool, and observe all safety and warning instructions! Misuse can result in **DEATH** or **SEVERE INJURIES**! The operating instructions are a part of the wheel bearing tool. Keep these operating instructions at a safe place for future reference, and always pass them on to subsequent users of the wheel bearing tool! The wheel bearing 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 wheel bearing 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 wheel bearing 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 wheel bearing tool **must** ensure that **only** trained personnel in specialised vehicle workshops use the wheel bearing tool!
- The owner of the wheel bearing tool **must** ensure that the instructions for use are available to the user and that the user has completely read and understood the instructions for use **before** using the wheel bearing tool!
- The owner of the wheel bearing 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/her!

1.3 Intended use

The wheel bearing tool ...

- **may only** be used for forcing out or forcing in wheel bearings on cars and vans!
- **may only** be used on vehicles or wheel bearings and wheel hubs as specified in **Chapter 2. - Product description**!
- **may only** be loaded up to a **max. load of 28 tonnes** or in combination with wheel hub extractor - **KL-0041-3800 A** up to a **max. load of 12 tons**!
- **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 wheel bearing tool ...

- **must never** be used for forcing out and forcing in other bearings and parts 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 batch processing (numerous forcing 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!

⚠ Use the wheel bearing tool **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 wheel bearing tool! The wheel bearing 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 wheel bearing tool to protect yourself against flinging parts or particles!

- When using the wheel bearing 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 wheel bearing tool to protect yourself against sharp edges and crushing between parts!

- When working with the wheel bearing 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 wheel bearing tool to protect yourself against falling parts!

- When working with the wheel bearing tool, 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**
⚠WARNING	**Indicates** a hazardous situation which, if not avoided, could 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.
ⓘ	**Note** on important information and useful tips.

1.7 Work environment

For your safety, **only** use the wheel bearing tool 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** be at room temperature between -10°C and +40°C.

1.8 Emissions

Molybdenum disulphide paste and hydraulic oil can drip or escape when using the wheel bearing 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)** as well as for molybdenum disulphide paste **(MOLYKOTE® G-N PLUS PASTE)** can be found on the manufacturer's site on the Internet (**W**orld **W**ide **W**eb) or, if required, contact **GEDORE Automotive GmbH**.

1.9 Basic safety instructions and warnings

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

When using the wheel bearing 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!

- Read and understand these operating instructions **before using** the wheel bearing tool, and observe all safety and warning instructions for **safe use**!
- **Always** work with the wheel bearing tool in accordance with the basic regulations on work safety, accident prevention and environmental protection!
- **Always** use the wheel bearing tool as intended. **GEDORE Automotive GmbH** accepts no liability or warranty or guarantee claims for injuries and damage resulting from improper use or failure to observe the safety regulations.
- **Before each use,** check the wheel bearing 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 GmbH**!
- **Only** use original spare parts and accessories from **GEDORE Automotive GmbH** for the wheel bearing tool!
- **Always** observe the vehicle-specific manufacturer's specifications when working with the wheel bearing tool!
- Secure the wheel bearing tool against falling down and flinging around, for example by holding it or by using the **GEDORE** safety retaining belt - **KL-0040-2890** or, alternatively, the retaining device **KL-0040-288**!
- **Never** use the wheel bearing 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 wheel bearing tool for batch processing with numerous forcing in/out processes within a few minutes!
- **Never** use the wheel bearing 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 wheel bearing mounting tool with the help of a second specialist!
- **Before using** the wheel bearing tool, make sure that **no** unauthorised persons are in the immediate environment!
- **Always** observe the **max. loading capacity** when using the wheel bearing tool, and **never** exceed it!
- **Never** stand in axial extension of the wheel bearing tool when it is under load!
- Wear your personal protective equipment such as safety goggles, protective gloves, safety shoes during work!
- Interrupt your work **immediately** if you are unsure about using the wheel bearing tool, and contact **GEDORE Automotive GmbH if necessary**!
- **Always** make sure that the wheel bearing tool is securely attached to the vehicle!
- **Never** leave the wheel bearing tool unattended in loaded condition on the vehicle!
- **Never** hit the wheel bearing tool with a hammer or other objects and **never** clamp it in a vice!
- **Always** avoid dropping, hitting or knocking the wheel bearing tool, especially when it is under load! **Always** place it on a clean shelf or workbench to prevent it from falling down!
- **Before each use**, check moving parts, in particular the spindles on the wheel bearing tool for sufficient lubrication. If necessary, lubricate them **exclusively** with molybdenum disulphide paste (e.g. **GEDORE Automotive - KL-0014-0030)**!
- Interrupt your work **immediately** if you are unsure about using the wheel bearing tool, and contact **GEDORE Automotive GmbH if necessary**!
- For safety reasons, ensure that a damaged wheel bearing tool is no longer used! Professional inspection and repair may only be carried out by specially trained personnel from **GEDORE Automotive GmbH**!

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1.10 Maintenance

Perform maintenance on the wheel bearing tool **at regular intervals** and **only** when the tool is depressurised and/or de-energised! Poor and improper maintenance can damage the wheel bearing tool, thus causing **DEATH** or **SEVERE INJURIES**!

Prior to each use:

- **Prior to each use**, check the wheel bearing tool **carefully** for damage, loose parts or unauthorised modifications!
- **Prior toeach use**of the wheel bearing tool, check the spindle for contamination and damage. If necessary, clean them, and subsequently lubricate them **only** with molybdenum disulphide paste! (for example, **GEDORE Automotive - KL-0014-0030**)

Recommended: Every 24 months:

- Have the wheel bearing tool professionally checked **every 24 months** by authorised **GEDORE Automotive GmbH** specialists!

1.11 Troubleshooting

Always perform troubleshooting on the wheel bearing tool when it is depressurised/tension-free!

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.

Problem: The hydraulic hand pump does not build up pressure or only very slowly.
Reason: The pressure release valve on the hydraulic hand pump is open or hydraulic oil is missing.
Remedy: Close the pressure release valve on the hydraulic pump completely. Top up lacking hydraulic oil **(HLP 32)** at the hydraulic hand pump.

1.12 Care / Storage

CAUTION

Improper care and storage can damage the wheel bearing tool.

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

1.13 Repair

⚠WARNING

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

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

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

1.14 Environmentally friendly disposal

Dispose of the wheel bearing tool and 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-1611-100 /-101 - Wheel bearing tool Ducato, Jumper, Boxer, Movano

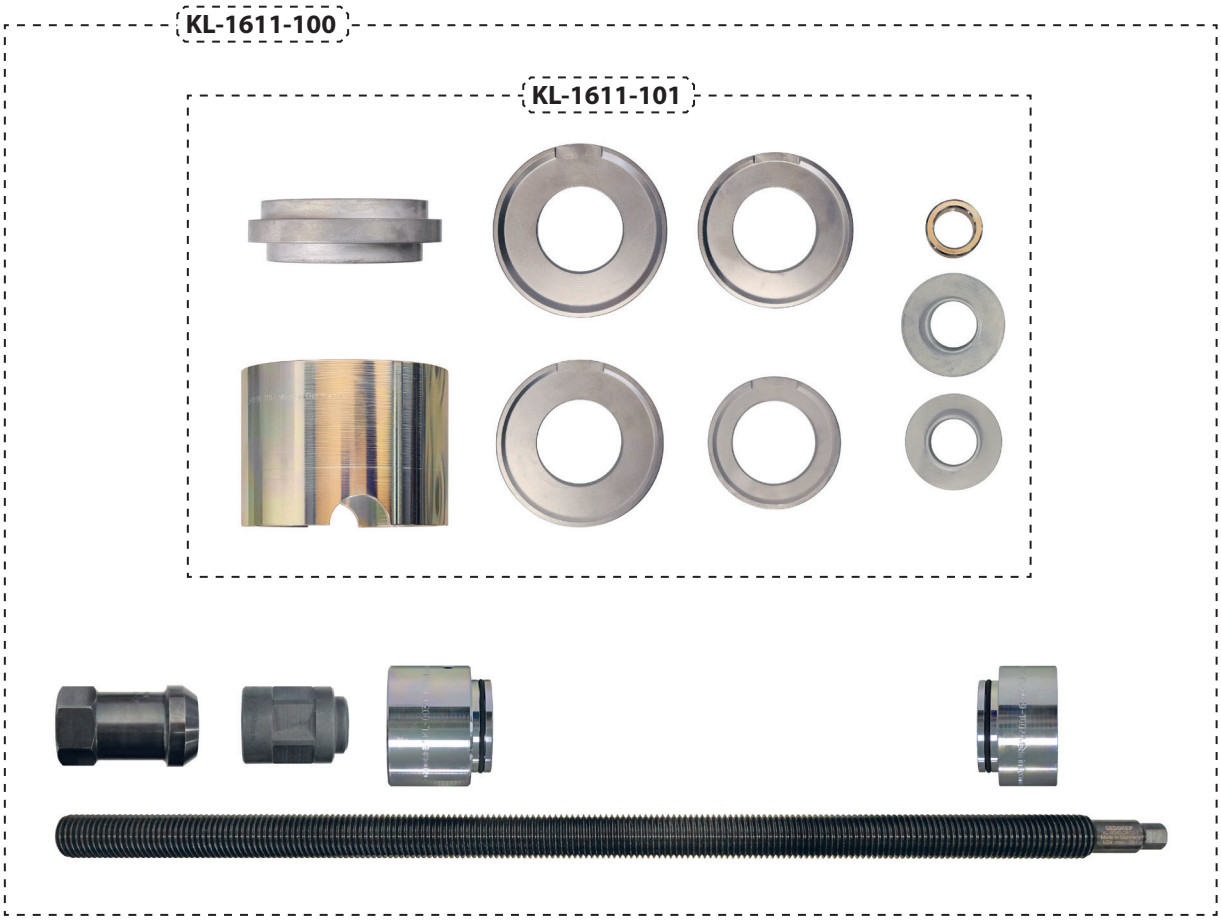
Suitable for Fiat, Peugeot, Citroën and Opel with a wheel bearing Ø of 90mm on the front axle. Installed in for example Fiat Ducato III (250_), Peugeot Boxer II, Citroën Jumper II, Opel Movano C (U9).

For the fast removal and installation of the wheel bearing and retraction of the wheel hub on the front axle.

- Professional wheel bearing change directly on the vehicle
- Time-consuming disassembly of the steering knuckle and wheel alignment are dispensed with
- Easy removal even with extremely stuck wheel bearings
- Including drive parts for 28t hydraulic cylinder
- Remove the wheel hub in advance by means of a wheel hub extractor - **KL-0041-3800 A** or impact puller

Scope of supply / Single part overview

*See **chapter 2.3***



2.2 Specifications

Maximum load wheel bearing tool: ..... 28 tonnes*

* Maximum load in conjunction with wheel hub extractor - **KL-0041-3800 A**: .....12 tonnes

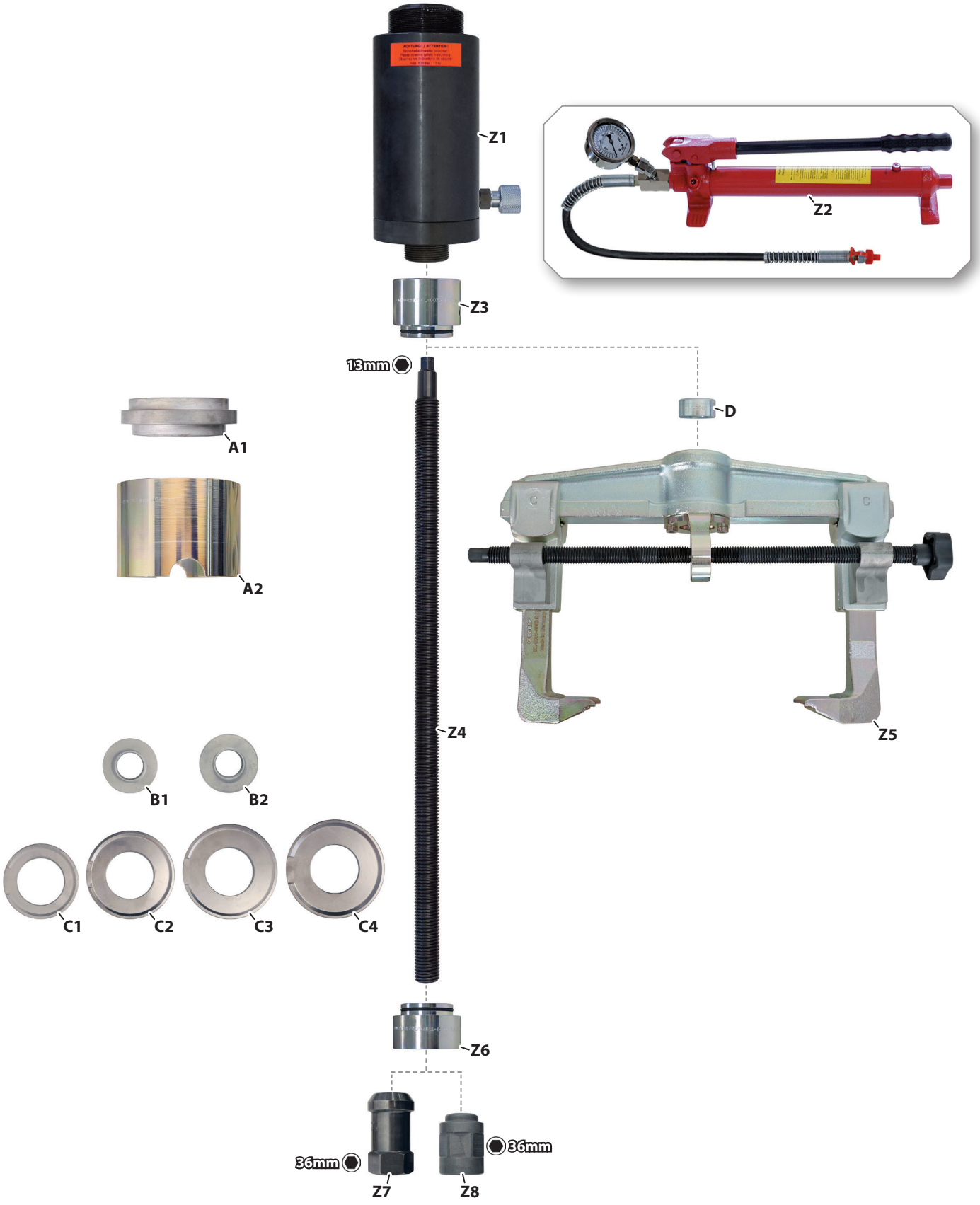
Suitable for wheel bearing Ø: 90mm

2.3 Scope of delivery / Overview of the single parts

ⓘ The table shows all components of the **KL-1611-10.** - Wheel bearing tool.

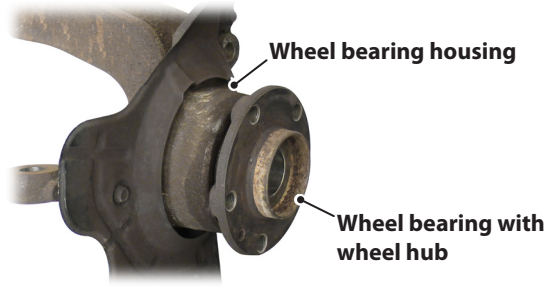
Prior to using the wheel bearing tool, check to ensure that all the parts included in the scope of delivery are available.

		Wheel bearing tool kits	
		KL-1611-100	KL-1611-101
Housing + cover... A	**Item**		
KL-0039-1401 - Cover	**A1**	•	•
KL-0039-1403 - Housing	**A2**	•	•
Centring rings... B			
KL-1039-3052 - Centring ring, Ø 52mm	**B1**	•	•
KL-1039-3055 - Centring ring, Ø 55mm	**B2**	•	•
Thrust rings... C			
KL-0039-1273 - Thrust ring, Ø 73mm	**C1**	•	•
KL-0039-1285 - Thrust ring Ø 85mm	**C2**	•	•
KL-0039-1290 - Thrust ring, Ø 90mm	**C3**	•	•
KL-0039-1502 - Thrust ring, Ø 95mm	**C4**	•	•
Spacer ring... D			
KL-1611-1001 - Spacer ring, Ø 30/24mm	**D**	•	•
Required drive parts... Z			
KL-0040-2800 - Hydraulic cylinder, 28t	**Z1**		
KL-0215-35 M28 - Hydraulic hand pump, 28t	**Z2**		
KL-1039-1003 - Mounting adapter for hydraulic cylinder 28t	**Z3**	•	
KL-0040-2812-1 - Pull/thrust spindle M24 x 590mm	**Z4**	•	
KL-0041-3800 A - Wheel hub extractor (base unit)	**Z5**		
KL-1039-1002 - Mounting adapter for clamping nut M24	**Z6**	•	
KL-0040-2812-2 - Clamping nut, conical M24	**Z7**	•	
KL-0040-2812-3 - Clamping nut M24	**Z8**	•	



3. PREPARATION

1: Preparing the wheel bearing housing...



1. Lift the vehicle safely according to the manufacturer's specifications and prepare all necessary parts for the subsequent work.

For example:
- Remove the wheel
- Dismantle the brake
- Remove the ABS sensor
- Dismantle the drive shaft

4. TYPICAL APPLICATION

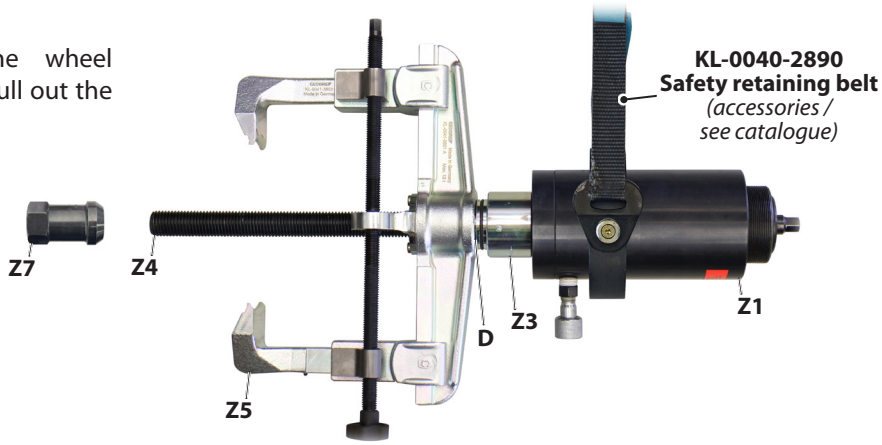
This typical application describes the basic procedure when using the wheel bearing tool to pull out and force in a wheel bearing with wheel hub directly on the vehicle. In the course of this the manufacturer's specifications must also always be followed!

4.1 Pulling out the wheel hub

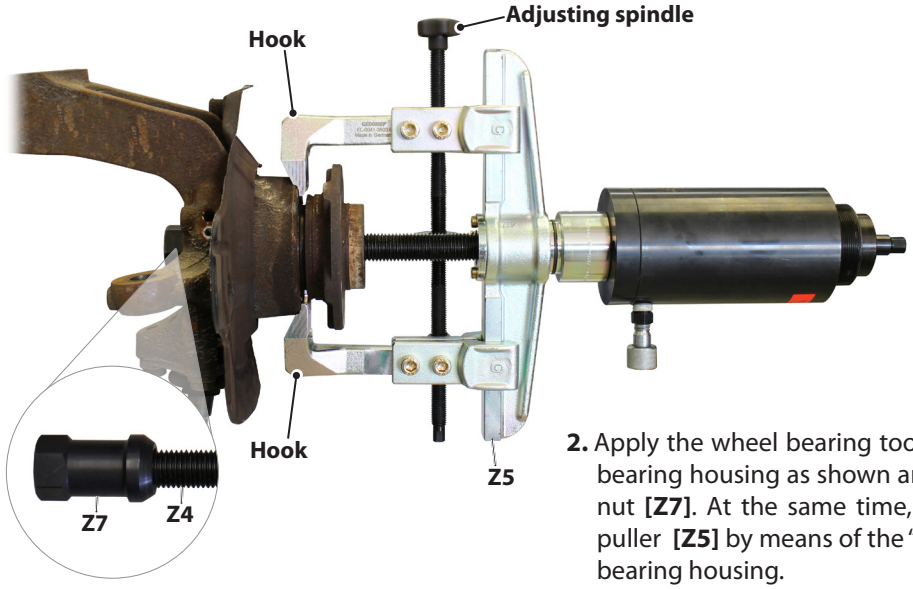
2: Assembling and preparing the wheel bearing tool accordingly...

1. Assemble and prepare the wheel bearing tool accordingly to pull out the wheel hub, as shown.

ⓘ The safety retaining belt - **KL-0040-2890**, available as an *accessory*, enables the wheel bearing tool to be secured to the vehicle to prevent it from falling down or being hurled around.



3: Correctly applying the wheel bearing tool to the wheel bearing housing...



CAUTION

The wheel hub puller [Z5] may slip off the wheel bearing housing and be damaged. For this reason, adjust the wheel hub puller [Z5] so that it can be supported on an as large as possible level surface of the wheel bearing housing and stands exactly at right angles to the wheel hub!

2. Apply the wheel bearing tool in the correct position on the wheel bearing housing as shown and secure it with the conical clamping nut **[Z7]**. At the same time, adjust the "hooks" of the wheel hub puller **[Z5]** by means of the "adjusting spindle" to match the wheel bearing housing.

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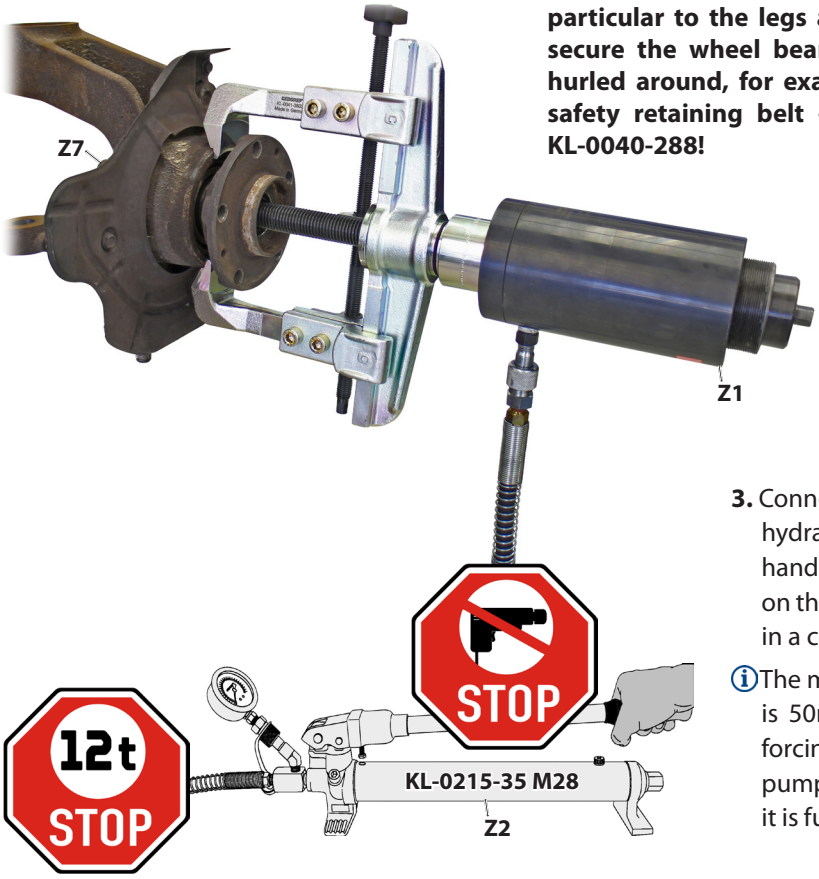
4: Pulling out the wheel hub in a controlled manner...

⚠WARNING

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

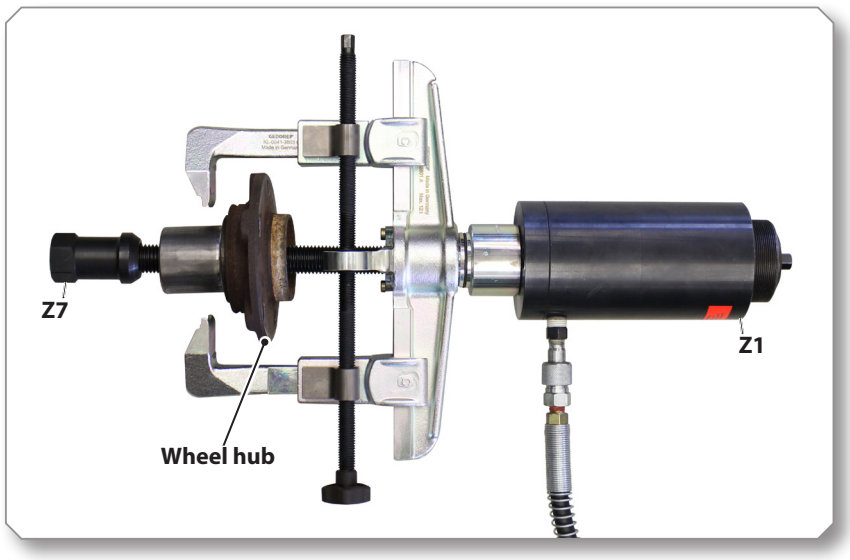
⚠WARNING

The wheel bearing tool can fall down or be hurled around when pulling out the wheel hub. This can cause SERIOUS INJURIES, in particular to the legs and feet! Therefore wear safety shoes and secure the wheel bearing tool against falling down and being hurled around, for example by firmly holding it or by using the safety retaining belt - KL-0040-2890 or the retaining device - KL-0040-288!



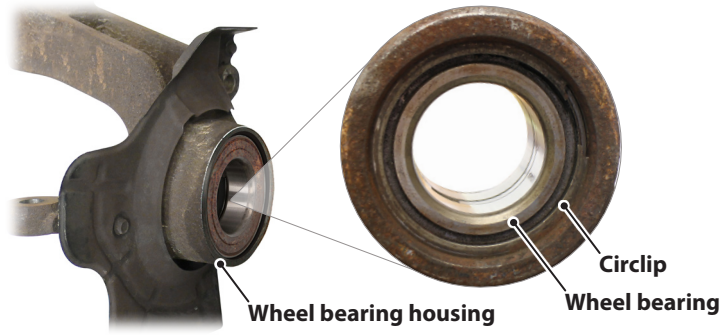
3. Connect the hydraulic hand pump **[Z2]** to the hydraulic cylinder **[Z1]**. Operate the hydraulic hand pump **[Z2]** , always observing the pressure on the pressure gauge and pull out the wheel hubs in a controlled manner.

ⓘ The maximum stroke of the hydraulic cylinder **[Z1]** is 50mm! As soon as it is reached: Interrupt the forcing process, relieve the pressure at the hydraulic pump **[Z2]**, re-tighten the clamping nut **[Z7]** until it is fully applied, and continue the forcing process.



4.2 Pulling out the wheel bearing

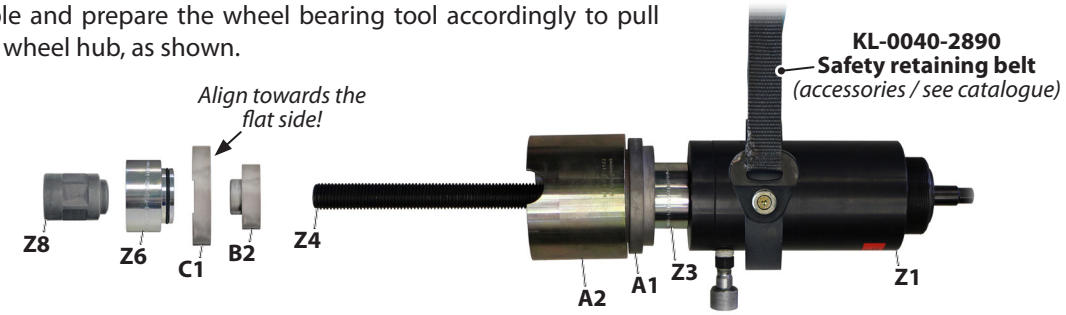
5: Removing the wheel bearing retaining ring...



1. Remove the wheel bearing retaining ring on the wheel bearing housing using a suitable tool.

6: Assembling and preparing the wheel bearing tool accordingly...

2. Assemble and prepare the wheel bearing tool accordingly to pull out the wheel hub, as shown.

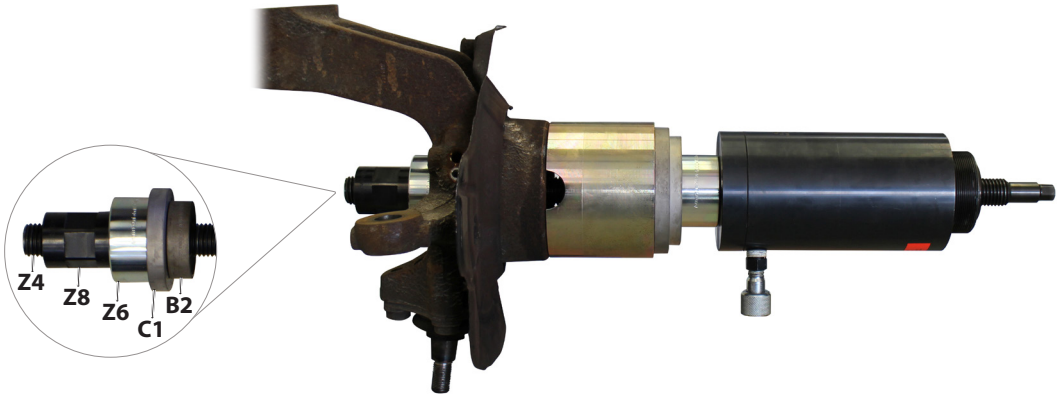


ⓘ The safety retaining belt - **KL-0040-2890** available as *accessory*, enables the wheel bearing tool to be secured to the vehicle to prevent it from falling down and being hurled around.

7: Correctly applying the wheel bearing tool to the wheel bearing housing...

CAUTION

If too large a thrust ring [C..] is used, the wheel bearing tool can collide with the wheel bearing housing and be damaged. For this reason, use the suitable thrust ring [C1] to dismantle the wheel bearing!



3. Apply the wheel bearing tool in the correct position on the wheel bearing housing, as shown, and secure with the clamping nut **[Z8]**. At the same time, pay attention that the centring ring **[B2]** sits neatly in the wheel bearing.

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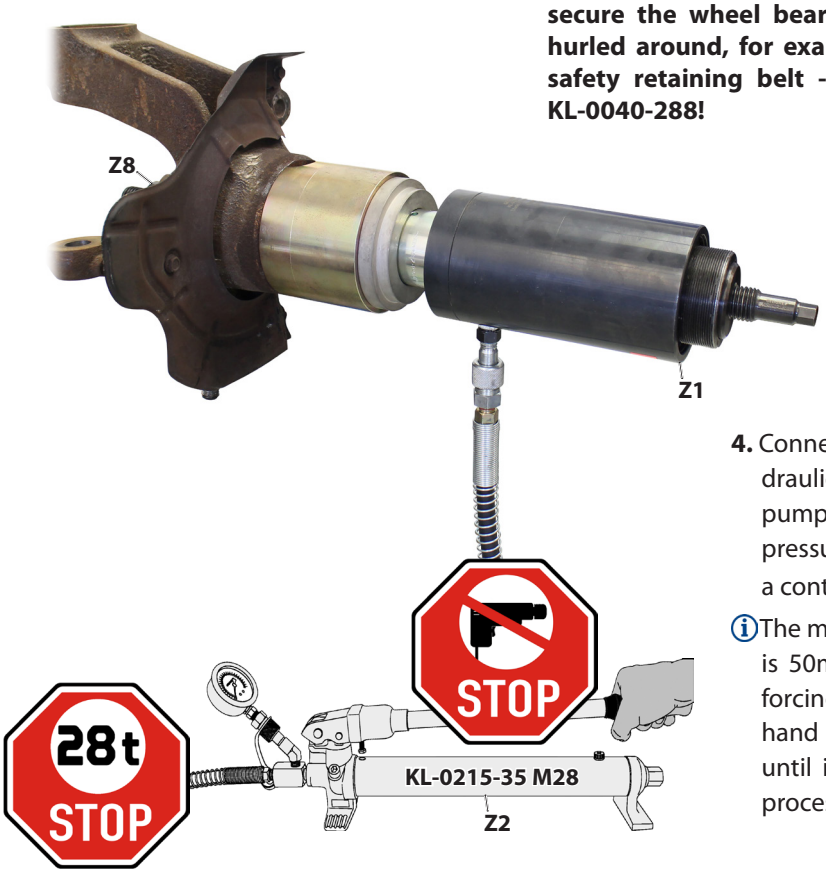
8: Pulling out the wheel bearing in a controlled manner...

⚠WARNING

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

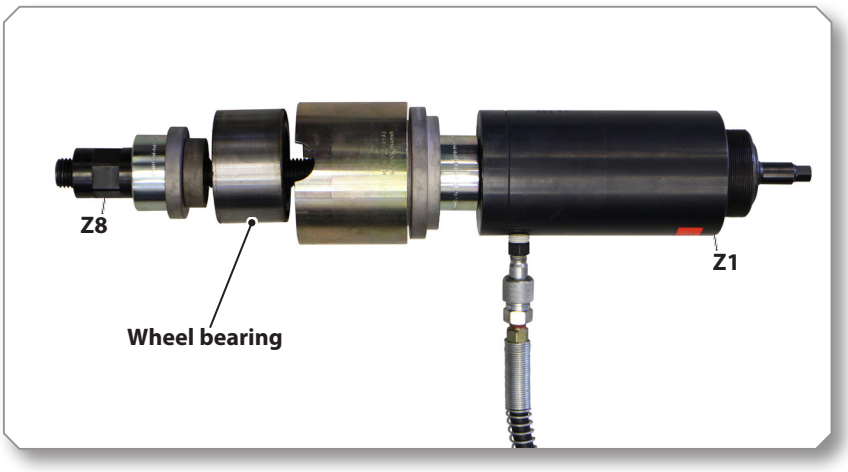
⚠WARNING

The wheel bearing tool can fall down or be hurled around when pulling out the wheel bearing. This can cause SERIOUS INJURIES, in particular to the legs and feet! Therefore wear safety shoes and secure the wheel bearing tool against falling down and being hurled around, for example by firmly holding it or by using the safety retaining belt - KL-0040-2890 or the retaining device - KL-0040-288!



4. Connect the hydraulic hand pump **[Z2]** to the hydraulic cylinder **[Z1]**. Operate the hydraulic hand pump **[Z2]**, always observing the pressure on the pressure gauge, and pull out the wheel bearing in a controlled manner.

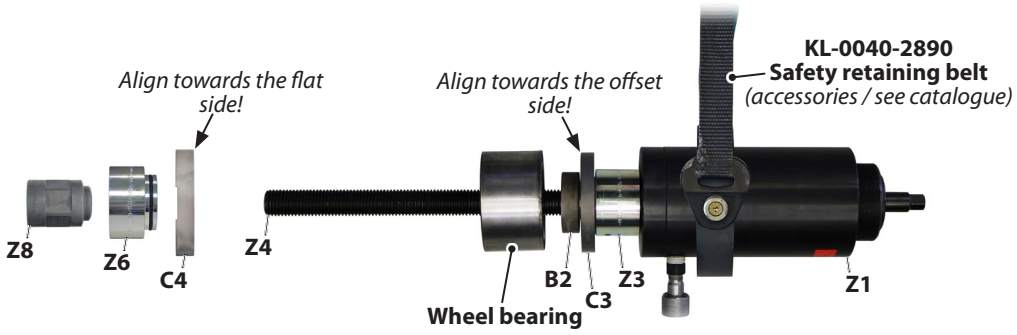
ⓘ The maximum stroke of the hydraulic cylinder **[Z1]** is 50mm! As soon as it is reached: Interrupt the forcing process, relieve the pressure at the hydraulic hand pump **[Z2]**, re-tighten the clamping nut **[Z8]** until it is fully applied, and continue the forcing process.



4.3 Forcing in wheel bearings

9: Assembling and preparing the wheel bearing tool accordingly...

1. Assemble and prepare the wheel bearing tool accordingly to force in the wheel bearing, as shown.

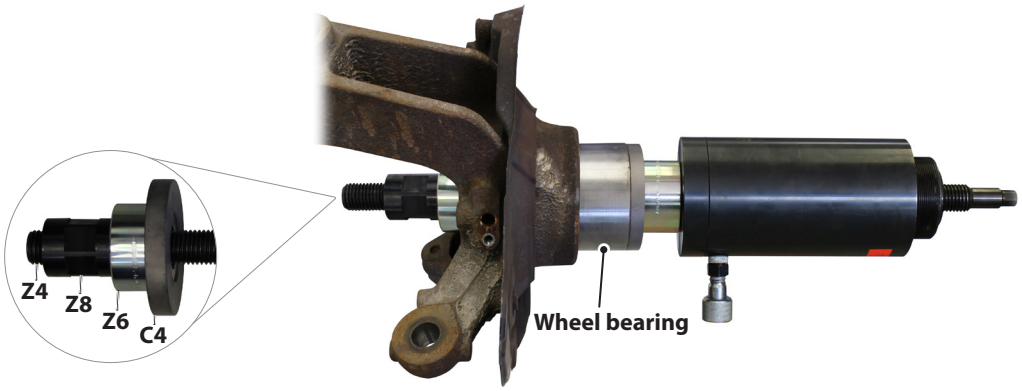


ⓘ The safety retaining belt - **KL-0040-2890** available as *accessory*, enables the wheel bearing tool to be secured to the vehicle to prevent it from falling down and being hurled around.

10: Placing the wheel bearing tool with wheel bearing in the correct position on the wheel bearing housing....

CAUTION

The wheel bearing can be damaged by faulty installation, and this can also lead to a failure of the ABS system. Therefore pay attention to the installation position of the ABS-sensor disk and install the wheel bearing in the correct position according to the manufacturer's specifications!



2. Apply wheel bearing tool together with the wheel bearing in the correct position on the wheel bearing housing, as shown, and secure with the clamping nut **[Z8]**. At the same time, pay attention that the centring ring **[B2]** sits neatly in the wheel bearing.

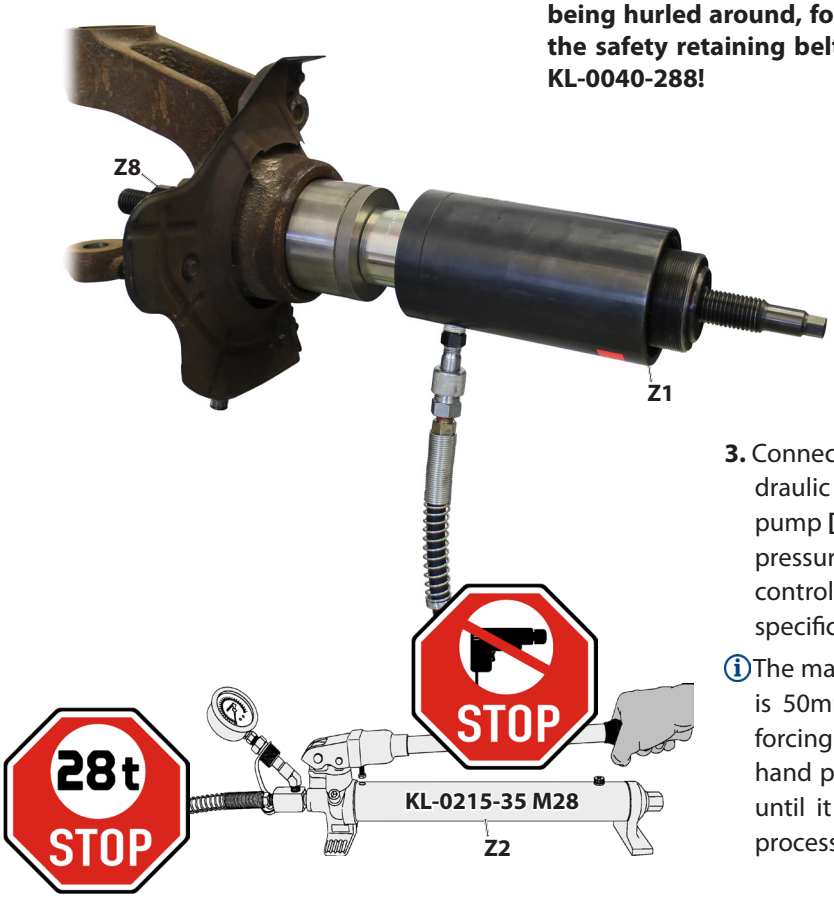
11: Forcing in the wheel bearing in a controlled manner according to the manufacturer's specifications...

WARNING

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

WARNING

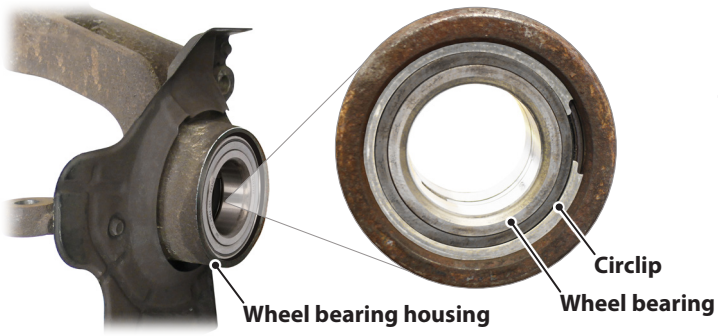
The wheel bearing tool can fall down or be hurled around when forcing in the wheel bearing. This can cause SERIOUS INJURIES, in particular to the legs and feet! Therefore wear safety shoes and secure the wheel bearing tool against falling down and being hurled around, for example by firmly holding it or by using the safety retaining belt - KL-0040-2890 or the retaining device - KL-0040-288!



3. Connect the hydraulic hand pump **[Z2]** to the hydraulic cylinder **[Z1]**. Operate the hydraulic hand pump **[Z2]** , always observing the pressure on the pressure gauge, and force in the wheel bearing in a controlled manner according to the manufacturer's specifications.

ⓘ The maximum stroke of the hydraulic cylinder **[Z1]** is 50mm! As soon as it is reached: Interrupt the forcing process, relieve the pressure at the hydraulic hand pump **[Z2]**, re-tighten the clamping nut **[Z8]** until it is fully applied, and continue the forcing process.

12: Mounting the wheel bearing circlip according to the manufacturer's specifications...

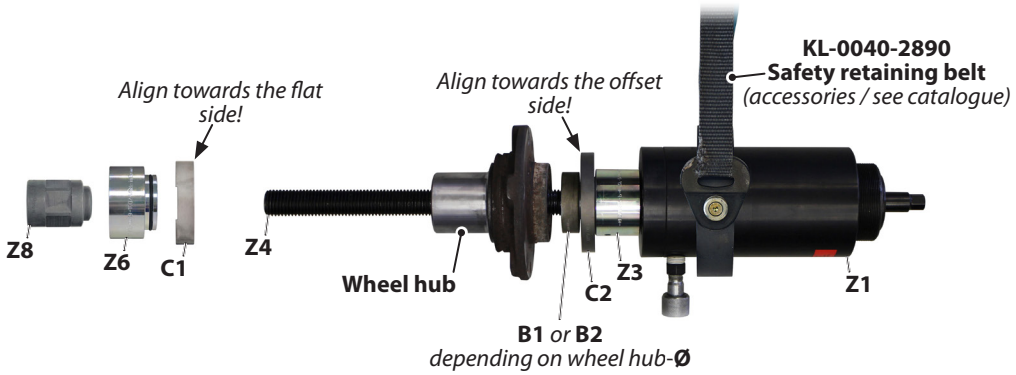


4. Mount the wheel bearing circlip on the wheel bearing housing with a suitable tool according to the manufacturer's specifications.

4.4 Forcing in the wheel hub

13: Assembling and preparing the wheel bearing tool accordingly...

1. Assemble and prepare the wheel bearing tool accordingly to force in the wheel hub, as shown.

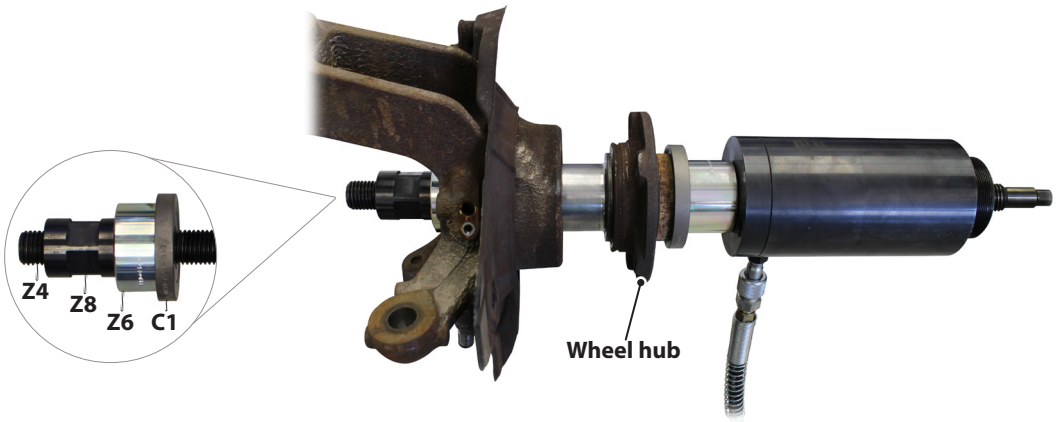


ⓘ The safety retaining belt - **KL-0040-2890** available as *accessory*, enables the wheel bearing tool to be secured to the vehicle to prevent it from falling down and being hurled around.

14: Placing the wheel bearing tool with wheel hub in the correct position on the wheel bearing housing....

CAUTION

The wheel bearing can be damaged by faulty installation, and this can also lead to a failure of the ABS system. Therefore pay attention to forcing in the wheel bearing in the correct position according to the manufacturer's specifications and to the installation position of the ABS-sensor disk!



2. Apply the wheel bearing tool together with the wheel hub in the correct position on the wheel bearing housing, as shown, and secure with the clamping nut **[Z8]**. At the same time, pay attention that the centring ring **[B1]** or, depending on the wheel hub Ø, **[B2]**, sits neatly in the wheel hub.

KL-1611-100 (EN240703).indd

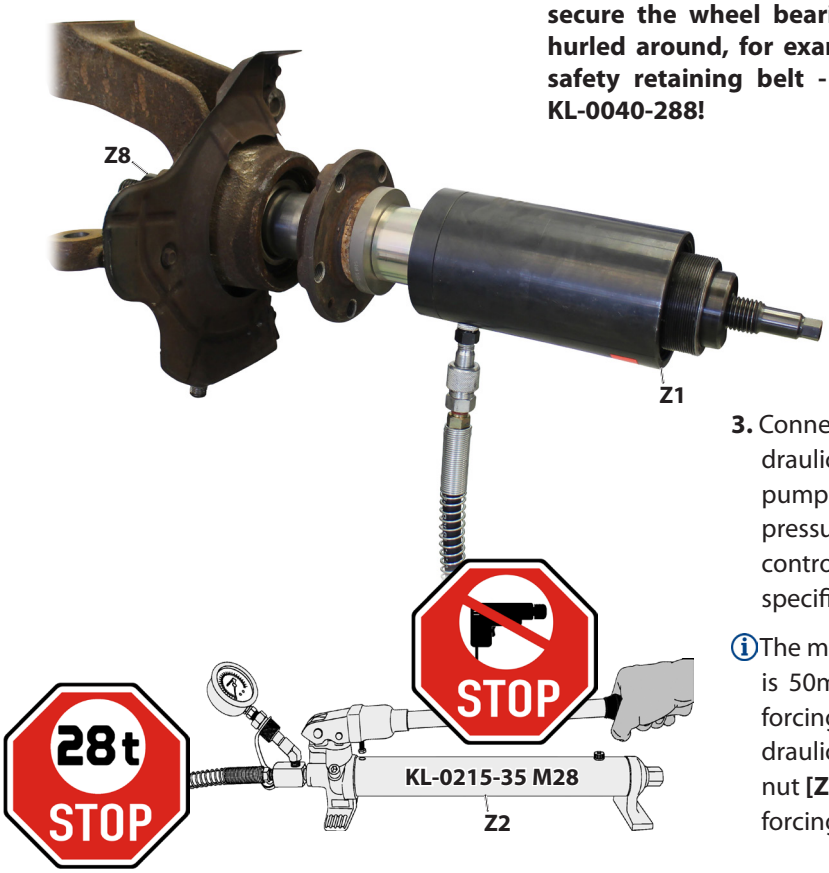
15: Forcing in the wheel hub in a controlled manner according to the manufacturer's specifications...

⚠WARNING

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

⚠WARNING

The wheel bearing tool can fall down or be hurled around when forcing in the wheel hub. This can cause SERIOUS INJURIES, in particular to the legs and feet! Therefore wear safety shoes and secure the wheel bearing tool against falling down and being hurled around, for example by firmly holding it or by using the safety retaining belt - KL-0040-2890 or the retaining device - KL-0040-288!



3. Connect the hydraulic hand pump **[Z2]** to the hydraulic cylinder **[Z1]**. Operate the hydraulic hand pump **[Z2]** , always observing the pressure on the pressure gauge, and force in the wheel hub in a controlled manner according to the manufacturer's specifications.

ⓘ The maximum stroke of the hydraulic cylinder **[Z1]** is 50mm! As soon as it is reached: Interrupt the forcing process, relieve the pressure at the hydraulic hand pump **[Z2]**, re-tighten the clamping nut **[Z8]** until it is fully applied, and continue the forcing process.

4. After completion of work, remove the wheel bearing tool and re-assemble the vehicle in accordance with the manufacturer's specifications.

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