



KL-0146-21 Retaining Device



Operating instructions EN
⚠ Read and understand before use!



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Version 12/2022

0146-21_EN221008.indd



ENGLISH

EN

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1. READ AND UNDERSTAND FOR YOUR SAFETY



Read and understand these operating instructions **before** using this retaining device and observe all safety and warning instructions! Misuse can result in **DEATH** or **SEVERE INJURIES**! These operating instructions are an integral part of the retaining device. Keep them at a safe place for future reference, and always pass them on to subsequent users of this retaining device. The retaining device 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 retaining device **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 retaining device!

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 retaining device **must** ensure that **only** trained personnel in specialised vehicle workshops use the retaining device.

✔ The owner of the retaining device **must** ensure that the operating instructions are available to the user and that the user has completely read and understood the instructions **before** using the retaining device!

✔ The owner of the retaining device **must** ensure that the user is familiar with the basic regulations on work safety and accident prevention, and that personal protective equipment is available to him!

1.3 Intended use

The retaining device ...

✔ **may only** be used for holding the **engine support device - KL-0146-20** during dismantling and installation on the vehicle!

✔ **may only be** used with a gearbox lifting jack which has been approved in accordance with the **EC Machinery Directive 2006/42/EC**!

✔ **may only** be used up to a **max. load of 50kg!**

✔ **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 retaining device ...

✔ **must never** be used for lifting the engine, the gearbox or other loads than those intended for it!

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

✔ **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 retaining device **always** as intended. Any other use can result in **DEATH** or in **SEVERE INJURIES**!

1.5 Work environment

For your safety, **only** use the retaining device 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.

1.6 Personal protective equipment

For your safety, **always** wear personal protective equipment when using the retaining device! The retaining device 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 retaining device to protect yourself against parts or particles flying about!

When using the retaining device, flinging 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 retaining device to protect yourself against sharp edges and crushing between parts!

When working with the retaining device, 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 retaining device to protect yourself against dropping parts!

When working with the retaining device, dropping parts can cause **SEVERE INJURIES** to your **feet and toes!**

1.7 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
	Indicates a hazardous situation which, if not avoided, could cause DEATH or SEVERE INJURIES .
	Indicates a hazardous situation which, if not avoided, could cause MODERATE or MINOR INJURIES .
	Indicates a situation which, if not avoided, can cause damage to the tool or an object in its vicinity.
	Note on important information and useful tips.

1.8 Basic warnings

⚠ WARNING - Danger to life from MISUSE

MISUSE can cause the retaining 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 retaining device and observe all safety and warning instructions for **safe use!**

Always work with the retaining device in accordance with the basic regulations on work safety and accident prevention!

Only use the retaining device as intended and described in these operating instructions!

Always observe the vehicle-specific application procedures in the vehicle manufacturer's repair guide!

Never use the retaining device if it is damaged or has loose parts or unauthorised modifications!

Never use the retaining device with any other drive than intended!

Never lift/lower the vehicle with a second lifting device while using the retaining device on the vehicle. Put other lifting equipment out of operation and secure it against unintentional restart!

The retaining device may only be used with a gearbox lifting jack which has been approved in accordance with the *EC Machinery Directive 2006/42/EC!*

Always observe the safety regulations for the respective gearbox lifting device.

Always wear your personal protective equipment (*safety goggles, protective gloves, safety shoes*) during work!

Never beat the retaining device with a hammer or anything similar!

⚠ WARNING - Danger to life from OVERLOAD

OVERLOAD can cause the retaining 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 retaining device!
- ✔ The retaining device must never be used for lifting a vehicle or heavy loads, for examples engines or gearboxes.
- ✔ **Never** use the retaining device if it is damaged or has loose parts or unauthorised modifications!
- ✔ **Always** wear your personal protective equipment (*safety goggles, protective gloves, safety shoes*) during work!

⚠ WARNING - Danger of injury from DROPPING

The retaining device and the vehicle may **FALL DOWN** when using the retaining device. This can cause **DEATH** or **SEVERE INJURIES!**

- ✔ **Always** make sure that the retaining device is securely attached to the gearbox lifter!
- ✔ **Never** leave the retaining device unattended in loaded condition on the vehicle!
- ✔ **Always** secure the engine support device - **KL-0146-20** to the fixture by means of both bolts with cotter pins.
- ✔ **Never** lift/lower the vehicle with a second lifting device while using the retaining device on the vehicle. Put other lifting equipment out of operation and secure it against unintentional restart!
- ✔ **Always** be sure to check the secure stability of retaining device and the gearbox jack before each use!
- ✔ **Always** wear your personal protective equipment (*safety goggles, protective gloves, safety shoes*) during work!

ATTENTION - Risk of DAMAGE

The vehicle can be **DAMAGED**.

- ✔ **Always** observe the vehicle-specific application procedures in the vehicle manufacturer's repair guide!
- ✔ **Never** clamp the retaining device in a vice.

1.9 Basic safety instructions

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

- ✔ Read and understand these operating instructions **before using** the retaining device 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 retaining device in accordance with the basic regulations on work safety and accident prevention!
- ✔ **Never** use the retaining device when you are tired or under the influence of alcohol, drugs, or medication!
- ✔ **Before each use**, check the retaining device **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!
- ✔ **Before using** the retaining device, make sure that **no** unauthorised persons are in the immediate environment!
- ✔ **Always** observe the **max. loading capacity** when using the retaining device, and **never** exceed it!
- ✔ **Never** use the retaining device with any other drive than intended!
- ✔ **Never** lift/lower the vehicle with a second lifting device while using the retaining device on the vehicle. Put other 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 retaining device, and contact **GEDORE Automotive GmbH if necessary!**
- ✔ For safety reasons, stop using the retaining device if any damage is detected on it! Professional inspection and repair may only be carried out by specially trained personnel from **GEDORE Automotive GmbH!**
- ✔ **Always** use the retaining device as intended; non-compliance will invalidate any warranty claim and may significantly reduce its durability.

2. PRODUCT DESCRIPTION

2.1 KL-0146-21 - Retaining Device

The **KL-0146-21** retaining device enables the **KL-0146-20** engine support device to be safely and securely held in an appropriate transmission jack.

This will ease the installation/removal of the heavy engine support device to/from the vehicle.

Accessories:

KL-0040-2571 - Adapter reception sleeve, **25mm diameter**

KL-0040-2588 - Adapter reception sleeve, **35mm diameter**



2.2 Scope of delivery/single parts overview

Item	Part no.	Description	Qty.
1	KL-0255-0017	Cap screw M5 x 12mm	1
2	KL-1280-2445	Hex nut M5, flat	1
3	KL-0146-211	Bracket	1
4	KL-0146-212	Bolt with cotter pin	1
5	KL-0043-5914	Safety screw M8 x 12mm	1

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2.4 Accessories

KL-0040-2571

Adapter reception sleeve

Required when using a gear jack with **25mm** mounting diameter.



KL-0040-2588

Adapter reception sleeve for VW

Required when using a gear jack with **35mm** mounting diameter.



2.3 Specifications

Maximum load capacity:50kg

Reception diameter30mm

Length:97mm

Width: 104mm

Height:..... 123mm

Weight:..... 1.1kg

📷 1: Fix the retaining device to the gearbox jack.



📷 2: Fix and secure the engine support device - KL-0146-20.



3. PREPARATION

3.1 Checking the scope of delivery

Prior to preparing or using the retaining device, check that all parts of the scope of delivery are available (*see chapter 2.*), and follow the instructions below.

3.2 Preparing the tool

⚠️ WARNING

Improper use of the retaining device may cause heavy parts or the vehicle to fall, resulting in **DEATH** or **SERIOUS INJURY!**

- ▀ The retaining device may only be used with a gearbox lifting jack which has been approved in accordance with the *EC Machinery Directive 2006/42/EC*.
- ▀ **Always** observe the safety regulations for the respective gearbox lifting device!

⚠️ CAUTION

Dropping the pick-up device can cause **MEDIUM** or **LIGHT** injuries!

- ▀ The retaining device must always be fully seated on the gearbox jack pick-up journal and secured by means of the locking screw [5].
- ▀ Wear personal protective equipment, for example, safety shoes.

1. Mount the retaining device as shown in **📷 1** on a suitable gearbox jack with a pick-up of **30mm** diameter.

- 📌 For gearbox jacks with **25mm** or **35mm** receiving diameter, matching adapter sleeves can be found in **chapter 2.4**.

4. TYPICAL APPLICATION

This application example describes the safe reception of the engine support device - **KL-0146-20** on a gearbox lifter in combination with the retaining device - **KL-0146-21**.

1. Unlock the two bolts with cotter pins [4] on the retaining device and remove them. **📷 2**
2. Place the engine support device - **KL-0146-20** on the retaining device as shown in **📷 2**. Then secure it using the two bolts with cotter pins [4].

3: Mount or dismount the engine support device - **KL-0146-20** with the help of the retaining device.



⚠ WARNING

Improper use of the retaining device can cause heavy parts or the vehicle to fall down. This **can cause DEATH or SEVERE INJURIES!**

- ✔ Do not exceed the maximum load of **50kg** of the retaining device.
- ✔ **Always** secure the engine support device - **KL-0146-20** to the retaining device by means of the two bolts with cotter pins [4].
- ✔ The retaining device must **never** be used for lifting a vehicle or heavy loads, for examples engines or gearboxes.
- ✔ Never lift/lower the vehicle with a second lifting device while using the retaining device on the vehicle. Put other lifting equipment out of operation and secure it against unintentional restart!
- ✔ Always observe the safety regulations for the respective gearbox lifting device.

3. Operate the gearbox jack and move the engine support device - **KL-0146-20** to the required height on the vehicle.

3

4. Securely fasten the engine support device - **KL-0146-20** to the vehicle as described in the associated instructions.

5. Unlock the two bolts with cotter pins [4] on the support device and remove take them off.

6. Unload the gearbox jack to lower the retaining device and remove it from the vehicle. Perform work on the vehicle **as specified by the manufacturer**.

5. CARE / STORAGE

CAUTION

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

6. REPAIR

⚠ WARNING

If damage to the retaining device is detected, do no longer use it for safety reasons! Professional inspection and repair may only be carried out by specially trained experts from **GEDORE Automotive GmbH**. Improper repair can result in **DEATH or SEVERE INJURIES**.

7. ENVIRONMENTALLY COMPLIANT DISPOSAL

Dispose of the retaining device 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.

8. EG DECLARATION OF CONFORMITY / UK DECLARATION OF CONFORMITY

EC DECLARATION OF CONFORMITY (Translation)

in accordance with EC Directive 2006/42/EC, Annex II A

Name and address of the manufacturer

GEDORE Automotive GmbH
Breslauer Straße 41
78166 Donaueschingen, GERMANY

We hereby declare that the product described below

Designation: Retaining device

Series / type: KL-0146-21

complies with all relevant provisions of the *Machinery Directive 2006/42/EC*.

The declaration loses its validity if the product is converted or modified without our consent.

Applied harmonised EN standards:

EN ISO 12100:2010 - *Safety of machinery - General principles for design - Risk assessment and risk reduction*

Other technical standards and specifications applied:

EN IEC/IEEE 82079-1:2020 - *Preparation of information for use (instructions for use) of products - Part 1: Principles and general requirements*

Authorised representative of GEDORE Automotive GmbH for the compilation of all technical documents:

Head of product development, Breslauer Straße 41, 78166 Donaueschingen, GERMANY

Donaueschingen, den 26 October 2022



i.V. Michael Wehler, Head of Global Business Development, GEDORE Automotive GmbH

UK DECLARATION OF CONFORMITY (Original UK Declaration of conformity)

in terms of The Supply of Machinery (Safety) Regulations 2008, Annex II 1A

Name and address of manufacturer

GEDORE Automotive GmbH
Breslauer Straße 41
78166 Donaueschingen, GERMANY

We hereby declare that the product described below

Designation: Retaining Device

Series / Type: KL-0146-21

conforms to all relevant provisions of the Supply of Machinery (Safety) Regulations 2008.

The declaration loses its validity if the product is converted or modified without our consent.

Designated (GB) or harmonised (NI) standards applied:

EN ISO 12100:2010 - *Safety of machinery - General principles for design - Risk assessment and risk reduction*

Other technical standards and specifications applied:

EN IEC/IEEE 82079-1:2020 - *Preparation of information for use (instructions for use) of products - Part 1: Principles and general requirements*

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