



## KL-0132-5.. / -6.. Universal Glow Plug Tool Series



**Operating instructions**  
⚠ Read and understand before use!

EN



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## 1. READ AND UNDERSTAND FOR YOUR SAFETY



Read and understand these operating instructions **before using** the glow plug tool (*Universal glow plug tool series*), and observe all safety and warning instructions! Misuse can result in **SEVERE INJURIES**! These operating instructions are an integral part of the glow plug tool. Keep them at a safe place for future reference, and always pass them on to subsequent users of the glow plug tool! The glow plug 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 glow plug 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 glow plug 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 glow plug tool **must** ensure that **only** trained personnel in specialised vehicle workshops use the glow plug tool!

▼ The owner of the glow 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 glow plug tool!

▼ The owner of the glow plug 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!

### 1.3 Intended use

The glow plug tool ...

▼ **may only be used** with diesel engines with M10x1 glow plug thread for boring out torn glow plugs, for recutting and cleaning the glow plug mounting thread as well as for pulling the glow plug element!

▼ **may only be** driven with a suitable drilling machine up to a **drilling speed of 600rpm!**

▼ **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 glow plug tool ...

▼ **must never** be used for boring out, recutting and pulling out of other parts than those intended for it!

▼ **must never** be used with an impulse or impact wrench or a drive other than that intended for it!

▼ **must never** be modified, converted, or used for other purposes without authorisation!

⚠ Use the glow plug 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 glow plug tool! The glow plug tool can bring about mechanical hazards such as crushing, cutting and shock injuries.



Always wear **EYE PROTECTION** (for example to DIN EN 166, OSHA 29 CFR 1910.133, ANSI Z87) when using the glow plug tool to protect yourself against flinging parts or particles!

▼ When using the glow plug tool, flying parts or particles can cause **SEVERE INJURIES** to - UNGEN your **eyes**!







Always wear **SAFETY SHOES** (e.g. DIN EN ISO 20345, OSHA 29 CFR 1910.136, ANSI Z41) when using the glow tool to protect yourself against dropping parts!

▼ When working with the glow plug 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
 <b>WARNING</b>	<b>Indicates</b> a hazardous situation, which, if not avoided, could cause <b>DEATH</b> or <b>SERIOUS INJURIES</b> .
 <b>CAUTION</b>	<b>Indicates</b> a hazardous situation which, if not avoided, could cause <b>MODERATE</b> or <b>MINOR INJURIES</b> .
 <b>ATTENTION</b>	<b>Indicates</b> a situation which, if not avoided, could 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 safety instructions and warnings

### **CAUTION - There is a risk of accident and injury if this is not observed.**

When using the glow plug tool, **always** observe the following safety and warning instructions as well as measures to avoid **SERIOUS INJURY** as well as property damage due to hazards, misuse, abuse and unsafe handling!

- ✔ Read and understand these operating instructions **before using** the glow plug tool and **always** observe all safety and warning instructions for **safe use**!
- ✔ **Always** work with the glow plug tool in accordance with the basic regulations on work safety, accident prevention and environmental protection!
- ✔ **Always** use the glow plug tool as intended. **GEDORE Automotive GmbH** accepts no liability or warranty or guarantee claims for injuries and damage resulting from improper use or infringement of the safety regulations.
- ✔ **Before each use**, check the glow plug 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 glow plug tool!
- ✔ **Always** observe the vehicle-specific manufacturer's specifications when working with the glow plug tool!
- ✔ **Never** use the glow plug tool with an impulse or impact wrench or any other drive than intended!
- ✔ **Only** drive the glow plug tool with a suitable drill up to the **maximum permissible speed**!
- ✔ **Never** use the glow plug tool when you are tired or under the influence of alcohol, drugs, or medication!
- ✔ **Before using** the glow plug tool, make sure that **no** unauthorised persons are in the direct vicinity!
- ✔ **Always** keep hair and clothing away from rotating parts and remove gloves and jewellery that could be drawn into rotating parts **before using** the glow plug tool!
- ✔ **Always** wear tight-fitting work clothes when using the glow plug tool!
- ✔ Always wear your personal protective equipment, e.g. safety goggles, safety shoes, **if necessary**!
- ✔ Interrupt your work **immediately** if you are unsure about using the glow plug tool and contact **GEDORE Automotive GmbH**, **if necessary**!

## 1.8 Work environment

For your safety, **only** use the glow plug 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** have a room temperature between -10°C and +40°C.

## 1.9 Emissions

Oil for lubricating the drill can drip down when using the glow plug tool and pose a danger to the environment.

- ✔ **Immediately** remove dripping oil with oil binding agents or a cleaning 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 oil in an **environmentally friendly** manner.

## 2. Product description

### 2.1 KL-0132-5.. /-6.. - Universal glow plug tool series

The universal glow plug tool series enables a quick and professional removal of a torn glow plug and the maintenance of the mounting thread on the cylinder head.

#### KL-0132-52 KB - Glow plug tool kit M10x1

Fits universally for diesel engines with M10x1 glow plug thread, e.g. on Opel, Peugeot, Renault, and many more.

Particularly suitable for VW-Audi (2.5, 2.7, 3.0 V6 TDI), BMW (M47, N47, B47, N57), Mercedes (OM 611, 612, 613, 646, 647, 648 CDI) and Ford (2.0 EcoBlue) due to vehicle-specific guide sleeves.

For boring out torn glow plugs, for recutting the mounting thread as well as for pulling the glow plug element.

Particular vehicle-specific guide sleeves for precise centring, straight guidance and exact drilling depth.

Can be also used without guide sleeves for a lot of diesel engines with M10x1 mounting thread.

#### Necessary accessories

KL-0369-300 A - Turning lathe operator

KL-0369-303 A - Mounting tool for guide sleeves\*

\*consisting of: Impact extractor - KL-0049-100 A + Base body - KL-0369-3031 B

#### Alternative accessories

KL-0369-305 A - Extraction tool for glow plugs  
(For the extraction of stuck glow plug elements)



#### KL-0132-55 KA - Glow plug tool kit M8x1

Fits universally for diesel engines with M8x1 glow plug thread.

Due to vehicle-specific guide sleeves especially suitable for, e.g. Mercedes (OM639, OM640, OM642, OM651 CDI) and Fiat (1.3, 2.3, 3.0 JTD)

For boring out torn glow plugs, for recutting the mounting thread as well as for pulling the glow plug element.

Particular straight specific guide sleeves for precise centring, straight guidance and exact drilling depth.

Can be also used without guide sleeves for a lot of diesel engines with M8x1 mounting thread.

#### Necessary accessories

KL-0369-300 A - Turning lathe operator

KL-0049-100 A - Impact extractor

#### Alternative accessories

KL-0369-305 A - Extraction tool for glow plugs  
(For the extraction of stuck glow plug elements)



**Fits universally for diesel engines with M8x1+ M10x1 glow plug thread.**

For the repair of defective glow plug mounting threads on the cylinder head, by extension and insertion of a threaded bushing.

**Necessary accessories**

**KL-0283-7021 A** - Core drill for M10

**KL-0283-7022** - Tap M10x1



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**KL-0132-62 KB - Universal glow plug tool kit M10x1.25**

**Fits universally for diesel engines with M10x1.25 glow plug thread.**

**Especially suitable for, e.g. Opel, Mazda, Ford, Hyundai, Kia, Nissan and Toyota 1.4 - 3.0 (D / DI / DTI / TD / CRDi / CDTi) diesel engines and many more.**

For boring out torn glow plugs, for recutting the mounting thread as well as for pulling the glow plug element.

**Necessary accessories**

**KL-0369-300 A** - Turning lathe operator

**KL-0049-100 A** - Impact extractor

**Alternative accessories**

**KL-0369-305 A** - Extraction tool for glow plugs  
(For the extraction of stuck glow plug elements)

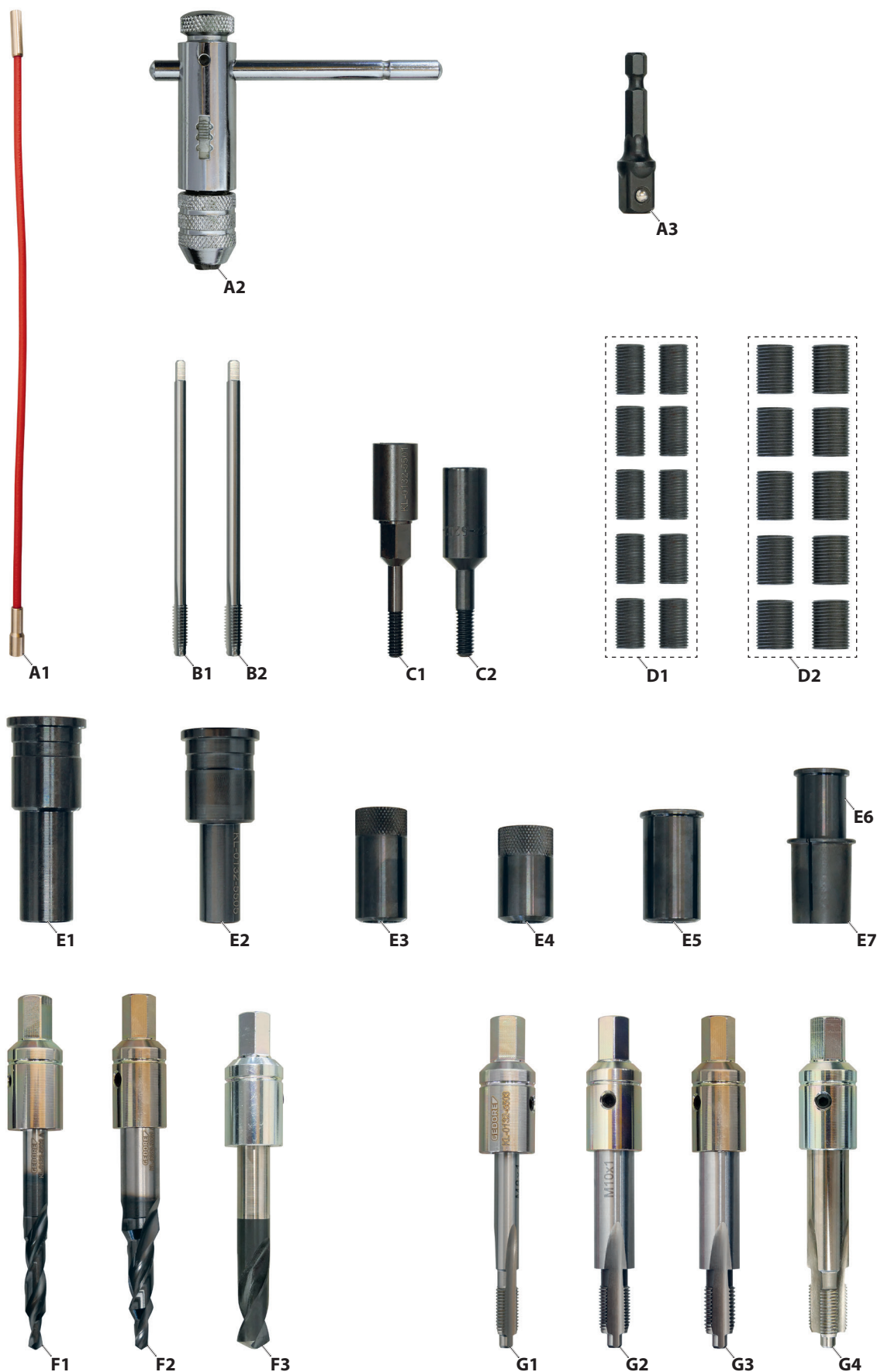


## 2.2 Scope of delivery / Overview of the single parts

① Prior to using the glow plug tool, check to ensure that all the parts included in the scope of delivery are available.

		Glow plug tool kits			
		KL-0132-52 KB	KL-0132-55 KA	KL-0132-57 K	KL-0132-62 KB
<b>Basic tools... A</b>					
KL-0126-221 - Magnetic lifter, flexible	<b>A1</b>	●	●		●
KL-0369-306 - Tool holder for taps UNC	<b>A2</b>	●	●		●
KL-4007-2510 - Adapter 3/8" for drill	<b>A3</b>	●	●		●
<b>Tap UNC... B</b>					
KL-1383-2241 - Tap 12-24 UNC	<b>B1</b>		●		
KL-0369-3056 - Tap 1/4"-20 UNC	<b>B2</b>	●			●
<b>Pull bolt... C</b>					
KL-0132-5501 - Pull bolt 12-24 UNC for impact extractor	<b>C1</b>		●		
KL-0132-5202 - Pull bolt 1/4"-20 UNC for impact extractor	<b>C2</b>	●			●
<b>Threaded sleeves... D</b>					
KL-0369-3023 - Threaded sleeves M10x1 to M8x1 (10 pieces)	<b>D1</b>			●	
KL-1383-2234 - Threaded sleeves M12x1 to M10x1 (10 pieces)	<b>D2</b>			●	
<b>Guide sleeves... E</b>					
KL-0132-5504 - Guide sleeve (Fiat JTD)	<b>E1</b>		●		
KL-0132-5505 - Guide sleeve (Mercedes)	<b>E2</b>		●		
KL-0283-7003 - Guide sleeve (VW-Audi)	<b>E3</b>	●			
KL-0283-7004 - Guide sleeve (BMW)	<b>E4</b>	●			
KL-0132-5201 - Guide sleeve (Mercedes)	<b>E5</b>	●			
KL-0283-7005 - Guide sleeve (Ford)	<b>E6</b>	●			
KL-0369-3015 - Centring sleeve for KL-0283-7005	<b>E7</b>	●			
<b>Core drill... F</b>					
KL-0132-5502 A - Core drill for M8	<b>F1</b>		●		
KL-0283-7021 A - Core drill for M10	<b>F2</b>	●		Accessories	●
KL-0283-7031 B - Core drill for M12	<b>F3</b>			●	
<b>Tap... G</b>					
KL-0132-5503 - Tap M8x1	<b>G1</b>		●		
KL-0283-7022 - Tap M10x1	<b>G2</b>	●		Accessories	
KL-0132-6201 - Tap M10x1,25	<b>G3</b>				●
KL-0283-7032 A - Tap M12x1	<b>G4</b>			●	
<b>Storage Systems:</b>					
KL-4990-2001 - Plastic box 53x107x18mm	-			●2x	
KL-0132-5290-1 B- Foam insert	-	●			
KL-0132-5790-1 - Foam insert	-			●	
KL-4990-9224 - Plastic case	-	●		●	
KL-0132-5590 A- Plastic case	-		●		●



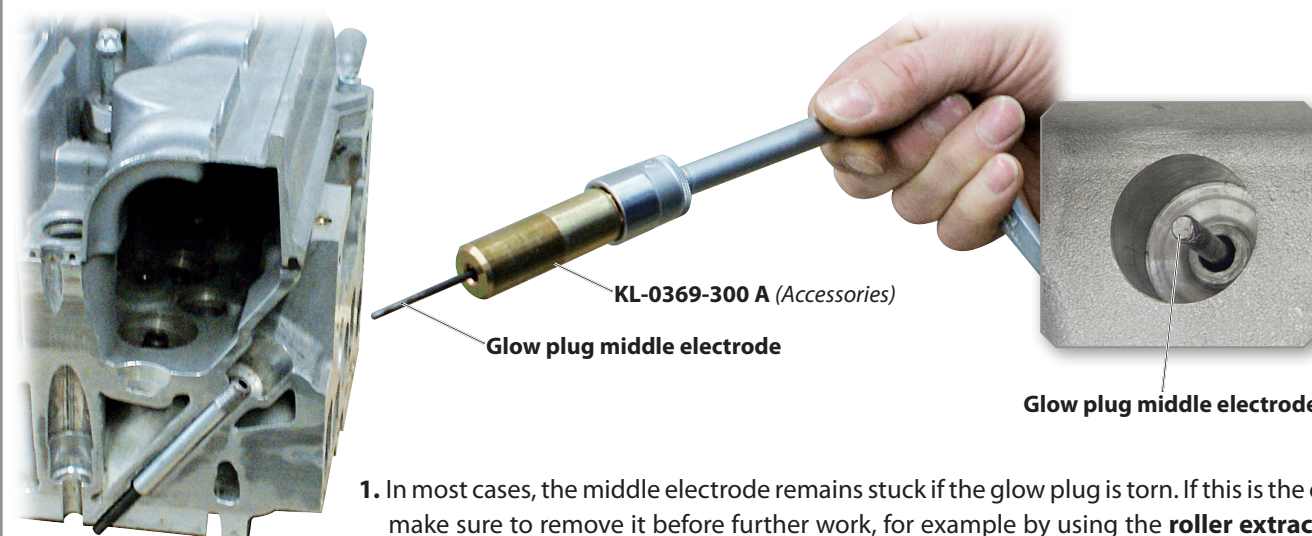




## 3. PREPARATION

### 3.1 Preparing the glow plug

**📷1:** If necessary, remove the protruding middle electrode of the torn glow plug.



1. In most cases, the middle electrode remains stuck if the glow plug is torn. If this is the case, make sure to remove it before further work, for example by using the **roller extractor - KL-0369-300 A** - available as an accessory.

## 4. TYPICAL APPLICATION

This typical application describes the boring out of a torn glow plug, the recutting as well as the repair of the glow plug mounting thread and the extraction of a glow plug element on the cylinder head.

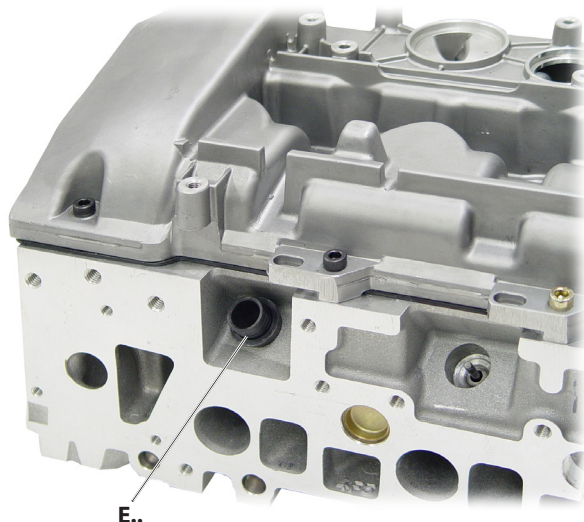
① The boring out of a glow plug can be executed **with** or **without** a vehicle-specific guide sleeve [E..]. Using a vehicle-specific guide sleeve ensures a precise centring, straight guidance and exact drilling depth. When drilling **without** a guide sleeve, **care** must be taken to ensure straight guidance and exact drilling depth!

### 4.1 Boring out the glow plug

**📷2:** Depending on the motor, select a suitable guide sleeve [E..] if necessary.

Guide sleeves... [E]	Item	Suitable for diesel engines...
KL-0132-5504 - Guide sleeve (Fiat JTD)	E1	...for Fiat 2.3, 3.0 (JTD)
KL-0132-5505 - Guide sleeve (Mercedes)	E2	...for Mercedes OM639, OM640, OM642, OM651 (CDI) ...Fiat 1.3 (JTD)
KL-0283-7003 - Guide sleeve (VW-Audi)	E3	...for VW-Audi 2.5, 2.7, 3.0 V6 (TDI)
KL-0283-7004 - Guide sleeve (BMW)	E4	...for BMW (M47, N47, B47, N57)
KL-0132-5201 - Guide sleeve (Mercedes)	E5	...for Mercedes OM611, OM612, OM613, OM646, OM647, OM648 (CDI)
KL-0283-7005 - Guide sleeve (Ford)	E6	...for Ford 2.0 (EcoBlue)
KL-0369-3015 - Centring sleeve for KL-0283-7005	E7	
Without vehicle-specific guide sleeve	-	...e.g. with VW-Audi, BMW, Mini, Mercedes, Fiat, Ford, Opel, Renault, Peugeot, Mazda, Hyundai, Honda, Kia, Nissan Renault, Toyota and many more. ...e.g. with 1.0 - 6.0 liter engines (D / DI / DTI / TD / TDI / CDI / CRDi / CDTi / JTD / EcoBlue) and many more.

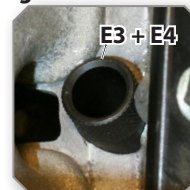
**📷3:** When using a guide sleeve [E..], insert it in the correct position at the glow plug bore.



e.g. Mercedes / Fiat



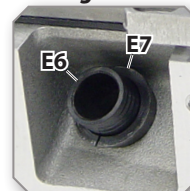
e.g. VW-Audi / BMW



e.g. Mercedes



e.g. Ford



1. Insert the selected guide sleeve [E..] completely at the glow plug bore.

❗ The guide sleeve [E6] and centring sleeve [E7] must also be fixed as described in **📷4**.

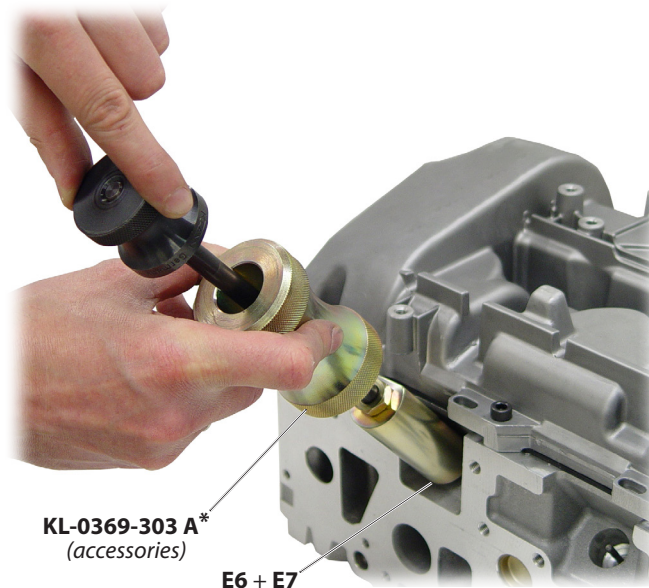
**📷4:** When using the guide sleeve [E6] and centring sleeve [E7], fix them additionally.

2. Using the **assembly tool available as an accessory - KL-0369-303 A\***, lightly tap the guide sleeve [E6] and centring sleeve [E7] into the glow plug bore.

❗ The removal of the sleeves [E6] + [E7] is done later in the same way.

\* **KL-0369-303 A** consisting of:

- Impact extractor - **KL-0049-100 A**
- Base body - **KL-0369-3031 B**



**KL-0369-303 A\***  
(accessories)

E6 + E7

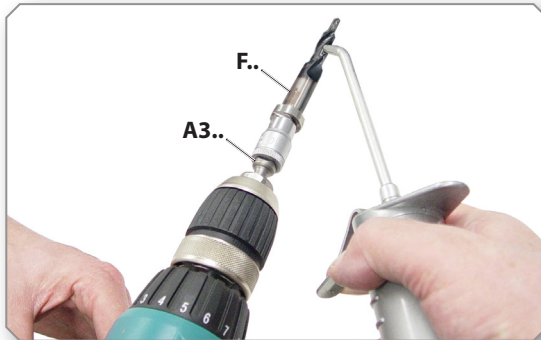
**📷5:** Insert the adapter [A3] together with a suitable socket into a drill.



3. Insert the adapter [A3] together with a socket spanner (3/8" - SW 10mm) into a suitable drilling machine.

❗ The speed of the drill should be adjustable to about **600rpm**.

**📷6:** Coat the core drill [F..] with oil and drill out the glow plug.



## ⚠CAUTION

When working with cutting tools, sharp edges and flying chips can cause **injuries** to hands and eyes.

✔Wear your personal protective equipment such as safety goggles during work!

## CAUTION

The core drill [F..] and cylinder head may be damaged.

✔Apply a little **oil** to the core drill during the drilling process!

✔Keep to the recommended drilling speed of approx. **600rpm**!

✔Apply only **light pressure** to the core drill during the drilling process!

✔When drilling without guide sleeve [E..] yourself, ensure straight guidance and exact drilling depth!

**4.** First insert the core drill [F..] on the drilling machine.

Now drill out the glow plug under slight pressure until the core drill [F..] rests on the guide sleeve [E..]. Interrupt the drilling process several times to remove chips and oil the core drill [F..].

**📷7:** Coat the tap [G..] with spirit and recut the glow plug receiving thread.

## ⚠CAUTION

The tap [G..] and cylinder head may be damaged.

✔When cutting, apply a little spirit to the tap!

✔When recutting without guide sleeve [E..] yourself, ensure straight guidance and exact drilling depth!

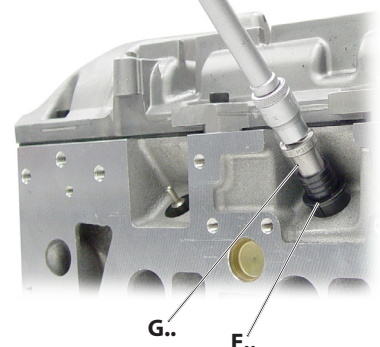
**5.** First insert the tap [G..] e.g. on a T-handle with socket **SW10**.

Now recut the glow plug mounting thread until the tap [G..] rests on the guide sleeve [E..]. Interrupt the cutting process several times to remove chips and apply spirit to the tap [G..].



**6.** Check the glow plug mounting thread, if it is OK then continue with **chapter 4.3**.

However, if the glow plug mounting thread is damaged, it can be repaired in the next step as described in **chapter 4.2**.





## 4.2 Repairing the defective mounting thread

**8:** Coat the core drill [F..] with spirit and drill out the glow plug receiving hole one step.

### CAUTION

When working with cutting tools, sharp edges and flying chips can cause **INJURY** to hands and eyes.

► Wear your personal protective equipment such as safety goggles during work!

### CAUTION

The core drill [F..] and cylinder head may be damaged.

► Apply a little **Spirit** to the core drill during the drilling process!

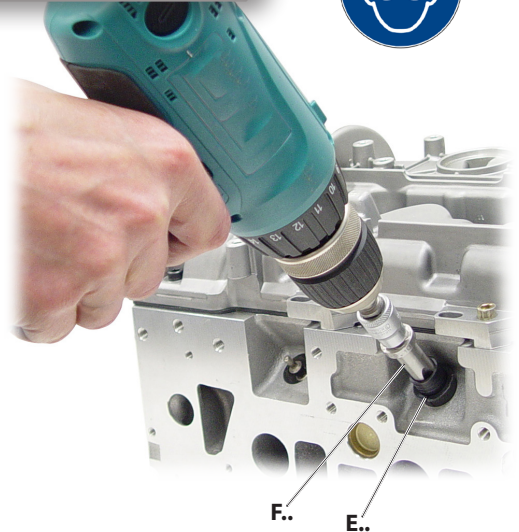
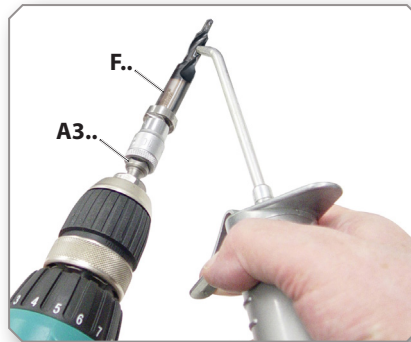
► Keep to the recommended drilling speed of approx. **600rpm**!

► Apply only **light pressure** to the core drill during the drilling process!

► When drilling without guide sleeve [E..] yourself, ensure straight guidance and exact drilling depth!

1. First insert the core drill [F..] on the drilling machine.

Now drill the glow plug mounting hole one step further under slight pressure until the core hole drill [F..] rests on the guide sleeve [E..]. Interrupt the drilling process several times to remove chips and to apply spirit to the core drill [G..].



**9:** Coat the tap [G..] with spirit and cut the receiving thread for the threaded sleeve [D..].



### CAUTION

The tap [G..] and cylinder head may be damaged.

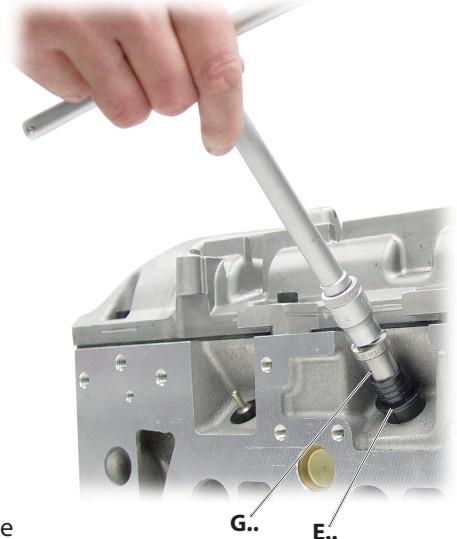
► Put some spirit on the tap during the cutting process!

► When recutting without guide sleeve [E..] yourself, ensure straight guidance and exact drilling depth!

2. First insert the tap [G..] e.g. on a T-handle with socket **SW10**.

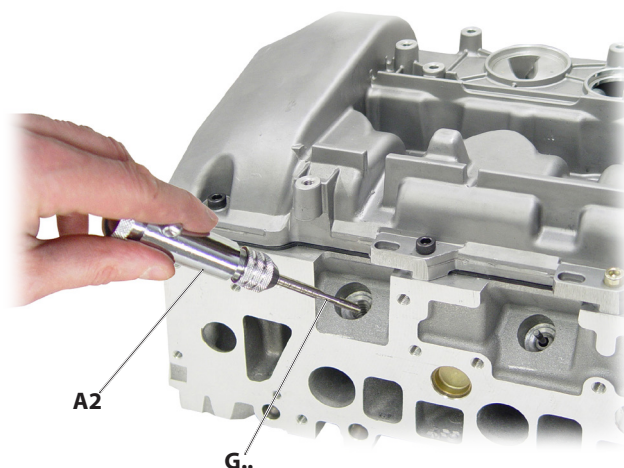
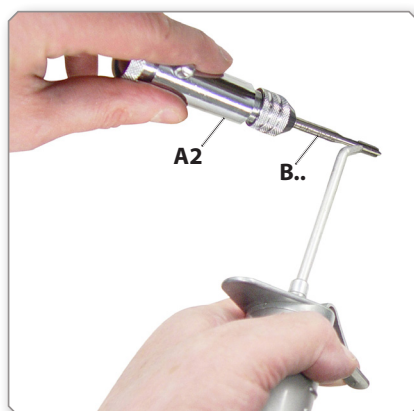
Now cut the mounting thread for the threaded sleeve [D..] until the tap [G..] rests on the guide sleeve [E..]. Interrupt the cutting process several times to remove chips and apply spirit to the tap [G..].

ⓘ Before inserting the threaded sleeve [D..], the glow plug must first be pulled out, see **chapter 4.3**.



## 4.3 Removing the glow plug element

**📷 10:** Coat tap [B..] with oil and cut a **5mm** deep thread on the glow plug.



### CAUTION

The tap [B..] can be damaged.

➤ Apply a little **oil** to the tap during the cutting process!

1. First remove the guide sleeve [E..].

Now insert the tap [B..] on the tool holder [A2] and cut a **5 mm** deep thread in the glow plug element. Interrupt the cutting process several times to remove chips and to oil the tap oil the tap [B..].

**📷 11:** Screw in the pull bolt [C..] on the glow plug and pull it out.

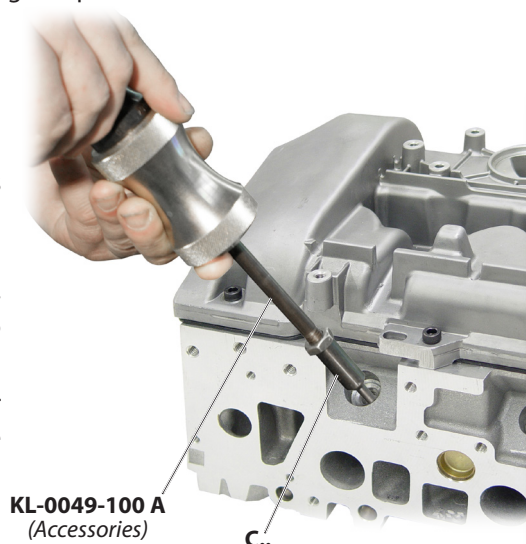
### CAUTION

The engine may be damaged!

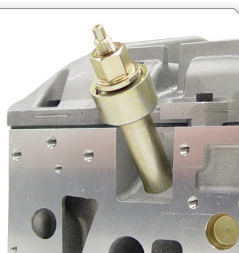
➤ Be sure to remove all chips and impurities before pulling out the glow plug!

2. Screw the pull bolt [C..] together with the **impact extractor - KL-0049-100 A**, available as an accessory, completely into the glow plug.

Now pull the glow plug out of the cylinder head in a controlled manner by pressing the impact weight.

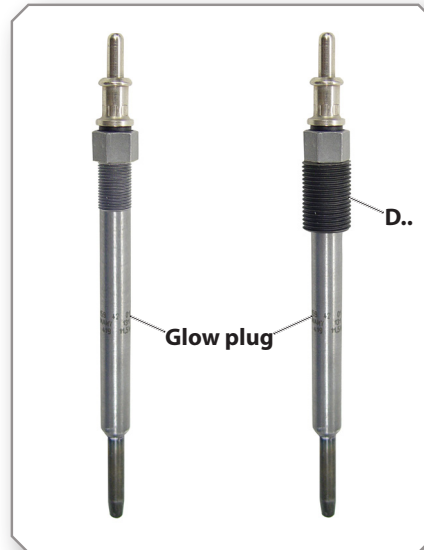
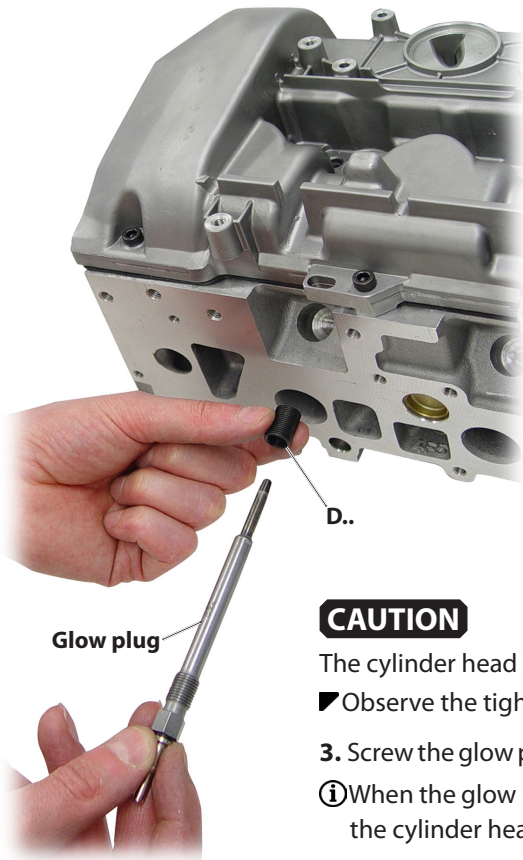


❗ Extremely stuck glow plugs can be pulled out with the help of the **extraction tool KL-0369-305 A**, which is available as an accessory.





**12:** Screw the glow plug into the cylinder head according to the manufacturer's specifications.



**CAUTION**

The cylinder head may be damaged!

► Observe the tightening torque according to the manufacturer's specifications!

**3.** Screw the glow plug into the cylinder head according to the manufacturer's instructions.

① When the glow plug mounting thread has been repaired, the glow plug is screwed into the cylinder head together with the matching threaded sleeve [D..].

## 5. CARE / STORAGE

**CAUTION**

Improper care and storage can cause damage to the glow plug tool. **Never** immerse the glow plug tool 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 clutch glow plug tool and the operating instructions at a dry and clean place.

## 6. REPAIR

**⚠ WARNING**

For safety reasons, ensure that a damaged glow plug tool is no longer used! 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 glow plug tool 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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