

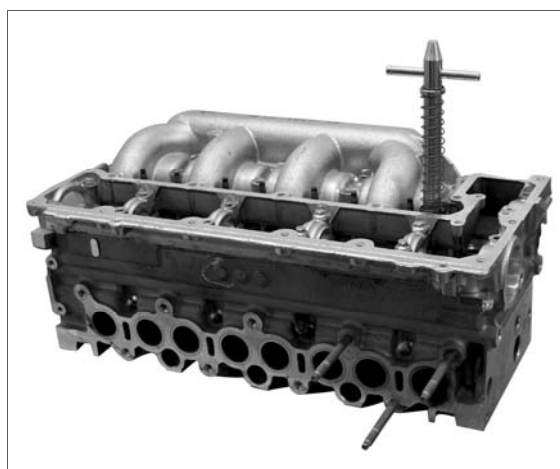
GEDORE

TOOLS FOR LIFE

Cleaning Tool for Injector Nozzle Seat



KL-0186-50 B



0186-50Be140812_g.docx

GEDORE Automotive GmbH

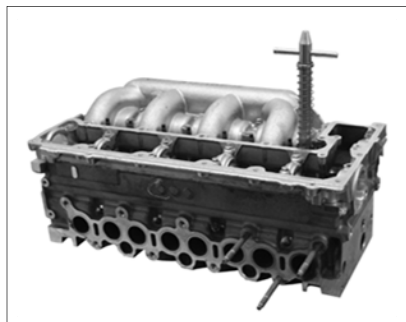
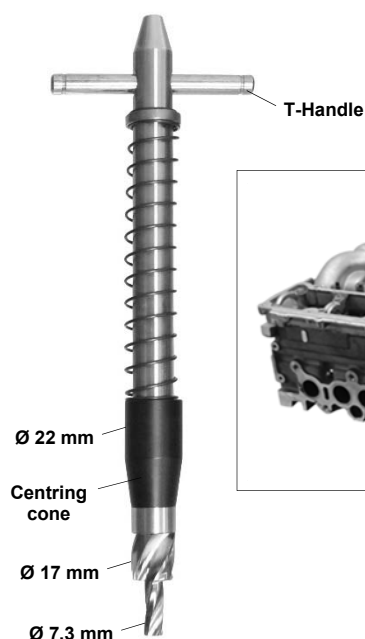
Breslauer Straße 41
78166 Donaueschingen

Postfach 1329
78154 Donaueschingen - GERMANY

Tel.: +49 (0) 771 / 8 32 23-0
Fax: +49 (0) 771 / 8 32 23-90

E-Mail: info@gedore-automotive.com
Internet: www.gedore.com

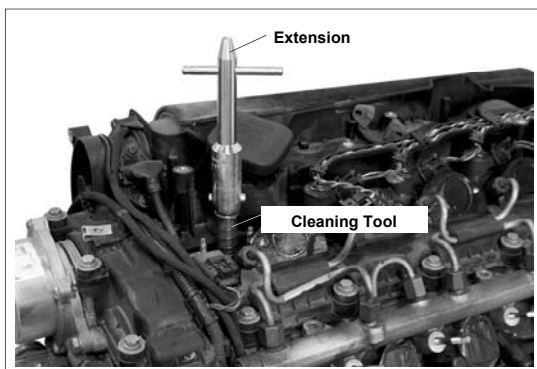
KL-0186-50 B



Technical Data

Drive	T-Handle
Length.....	238 mm
Cleaning tool Ø:.....	17 / 7.3 mm

KL-0186-501



Technical Data

Drive	T-Handle
Length	150 mm

KL-0186-50 B - Cleaning Tool for Injector Nozzle Seat (German Utility Model)

Universally suitable for the VW-Audi, Seat, Skoda, Citroën, BMW, Ford, Landrover, Mazda, Mercedes, Opel/Vauxhall, Peugeot, Renault, Toyota, Volvo Diesel engines having an injector nozzle seat Ø of 17 mm.

Engine codes:

Mercedes: OM611, OM612, OM613, OM640, OM642, OM646, OM646 EVO, OM647, OM648, OM668

VW-Audi/Seat/Skoda: AXD, BAY, BLE, BNZ, BNM, BNV, BKC, BWF, BXE, BLS

Peugeot: DT17, DT20, DV4, DV6, DW10, DW12

Citroën: DV4

Renault: F9Q, G9T, G9U, K9K

BMW: M47, M47TU, M57, M57TU

Opel: Z13DT

Ford: G8DA, G8DB, HHDA, HHJA, HHJB

Volvo: D4164T

Mazda: Y6

Toyota: 2AD-FTV, 1KD-FTV

Landrover: TD4, M47D

Field of Application

The **KL-0186-50 B** tool allows for the quick and professional cleaning of injector nozzle seats.

⇒ **This is important before installing/re-installing an injector nozzle in order to avoid leakage between cylinder head and injector nozzle.**

The spring-loaded centring cone sleeve ensures that the cleaning tool is accurately guided in the injector nozzle bore, thus enabling the seal seat to be cleaned properly and without any trouble.



Warnings and Notes

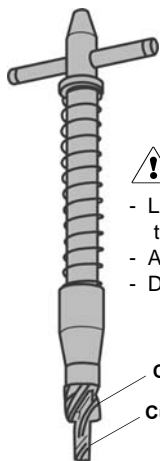
- Work on vehicles should only be performed by qualified specialist personnel observing and complying with the directions, provisions, and safety regulations specified by the vehicle manufacturer.
- Always refer to the vehicle manufacturer's data and instructions as only these apply to all work to be carried out on the vehicle.
- All specific vehicle data stated herein are supplied under reserve and without commitment.

KL-0186-501 - Extension

The **KL-0186-501** extension is specially designed for use on very deep-seated injector nozzles.

Note: When using the **KL-0186-501** extension, the T-handle of the extension and the T-handle of cleaning tool **KL-0186-50 B** need to be interchanged.

Correct Use



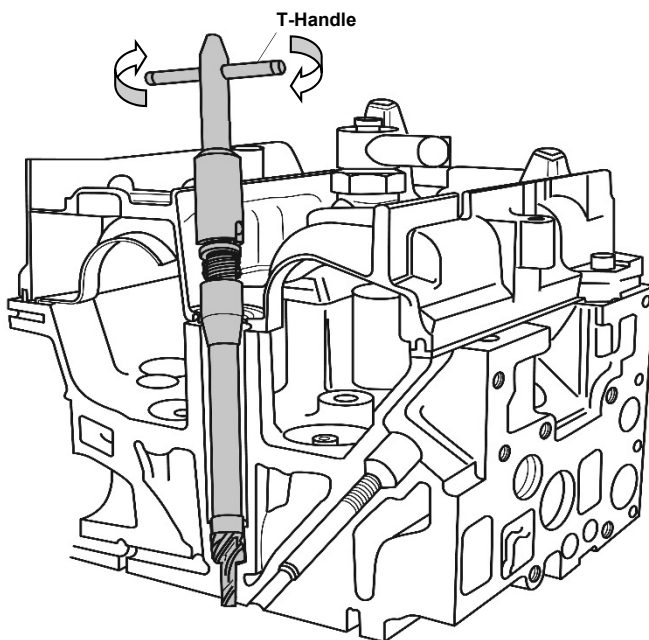
Attention:

- Lubricate the cutting edges of the cleaning tool with methylated spirit.
- Always wear safety goggles.
- Drive the cleaning tool by hand only.

Cutting edges

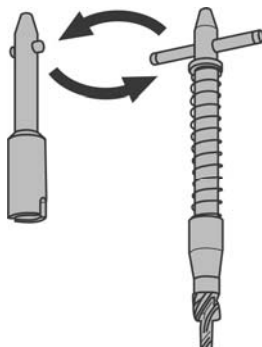
Cutting edges

Carry out cleaning

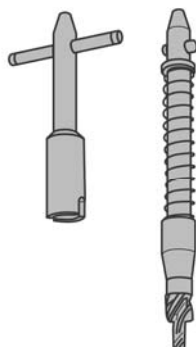


Interchange T-handles

T-handles
in factory setting



T-handles
interchanged



Correct Use

1. Before removing the injector nozzle, clean the bore in the cylinder head.
2. Remove injector nozzle.
3. Lubricate the cutting edges of cleaning tool **KL0186-50 B** with methylated spirit.
4. In order to prevent swarf from entering the combustion chamber, it is helpful to inject compressed air via the glow plug bore into the combustion chamber. This will allow swarf to escape upwards via the injector nozzle bore. (Always wear safety goggles.)
5. Insert cleaning tool **KL0186-50 B** into injector nozzle bore.

Note:

If injector nozzles are very deeply seated, you will additionally need the **KL-0186-501** extension.

⇒ When using the **KL-0186-501** extension, the T-handle of the extension and the T-handle of cleaning tool **KL-0186-50 B** need to be interchanged.

6. Carefully and evenly turn the cleaning tool T-handle clockwise. While doing so, exert **only light** pressure on the tool.

Note:

Cleaning is to be carried out in several steps.

Check the seal seat several times. To do so, interrupt cleaning process at regular intervals, remove tool and check the state of the seal seat.

The seal seat should only be cleaned and not modified by removing material.

7. Carefully remove tool and clean injector nozzle bore.



WERKZEUGE FÜRS LEBEN

GEDORE Automotive GmbH

Breslauer Strasse 41
78166 Donaueschingen

Postfach 1329
78154 Donaueschingen - GERMANY

Tel.: +49 (0) 771 / 8 32 23-0
Fax: +49 (0) 771 / 8 32 23-90

E-Mail: info@gedore-automotive.com
Internet: www.gedore.com