

User's manual

CDI Injector Extractor Set

61878



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Illustrations, functional steps, and technical data may deviate insignificantly due to continuous further developments.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.



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Introduction

Thank you for choosing to purchase this quality product. To minimise the risk of injury, we ask you to always take some basic safety precautions when using this product. Please read this operating manual carefully and make sure that you understand it.

Keep these operation instructions in a safe place.

These tools are designed for extracting different types of injectors. Respect all safety requirements, warnings, and precautions. Only use the item correctly, carefully, and following the intended use. Any inobservance might cause damages and/or injuries and will void the warranty.

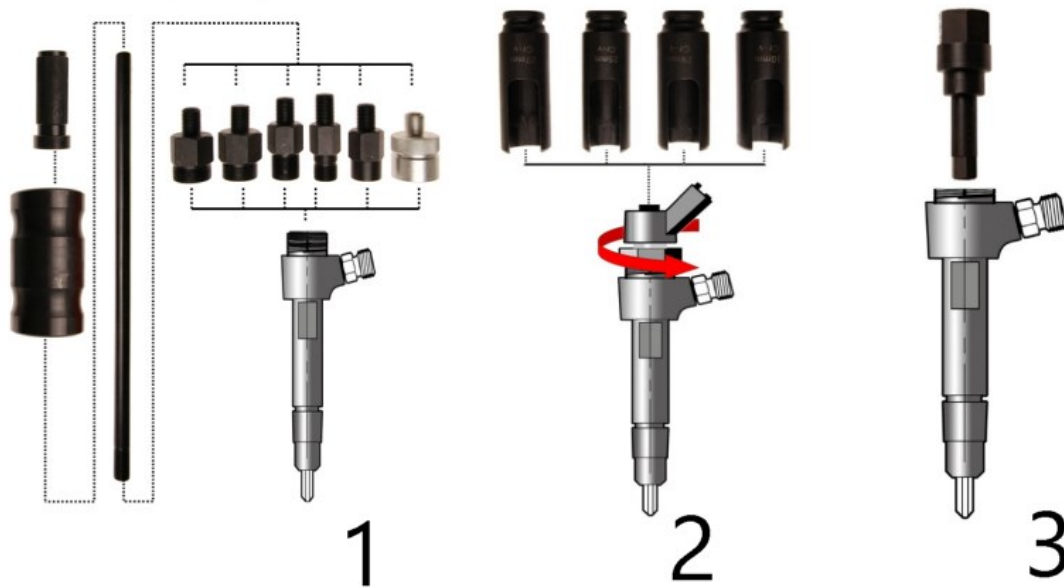
Safety instructions

- Make sure to always follow the health and safety regulations as well as the regulations of local authorities and the general conventions of work in workshops when using tools.
- Always be careful when working near a fuel system. The fuel inside the fuel line might be pressurised, even with the engine not running.
- These instructions are meant to be a general guideline.
- Always refer to the vehicle producer's maintenance instructions or the internal reference book to know about the actual methods and data as well as the warnings and precautions applying to the vehicle.
- Do not use the set when parts are damaged or missing.
- Only use this tool for the intended use.
- Switch off the ignition of the vehicle and branch off the battery before beginning to work under the bonnet.
- Never place any tool onto the battery of the vehicle. Failing this, the poles could be short-circuited, provoking injuries or damages of tools or the battery.
- Only work in a well-ventilated zone and do not inhale the vapours emanating from the fuel.
- Wear an appropriate work protection, e.g., an eye protection.
- Wear appropriate clothes to avoid that you get stuck. Do not wear loose jewellery and tie long hair together.
- Keep children and other unauthorised persons away from your work area.
- Keep your body, tools, and testers away from hot components of the engine.
- Always have a fire-extinguisher at hand that is suitable for fighting against electric or chemical fires.
- Do not smoke near the vehicle, keep away naked flames.
- Always release the fuel pressure before disconnecting the fuel lines from the injectors.
- Use a cloth to clean the connections of the fuel lines when connecting or disconnecting these. Avoid contact with fuel.
- Immediately wipe up spilt fuel and dispose of all cloths correctly.
- Keep the components of the tool clean and in a good condition to ensure optimal and safe performance.
- After finishing your work on the vehicle, make sure to re-establish all connections of the vehicle; do not leave any tool under the bonnet.
- Re-place the tools into the box and keep them in a safe and dry place, out of children's reach.

Components of the tool set

- 3× slide hammer:
160 mm long, 1.6 kg / 460 mm long, 2.7 kg / 600 mm long, 5.1 kg
- 2× extraction claw:
13.7 × 18 mm, 105 mm long / 12.7 × 19 mm, 130 mm long
- 5× slotted hexagon socket wrench:
100 mm long, sizes 25, 27, 28, 29, and 30
- 1× injector extractor:
inner diameter 29 mm, shaft M17 × 1.0
- 3× extraction adapter with male thread M27 × 1.0
- 1× extraction adaptor with male thread M25 × 1.0
- 3× extraction adapter with female thread M27 × 1.0
- 1× slide-hammer adaptor for internal extractor, external extractor, and claw extractor

Names



No	Name
1	Adaptor
2	Slotted insets
3	Internal thread

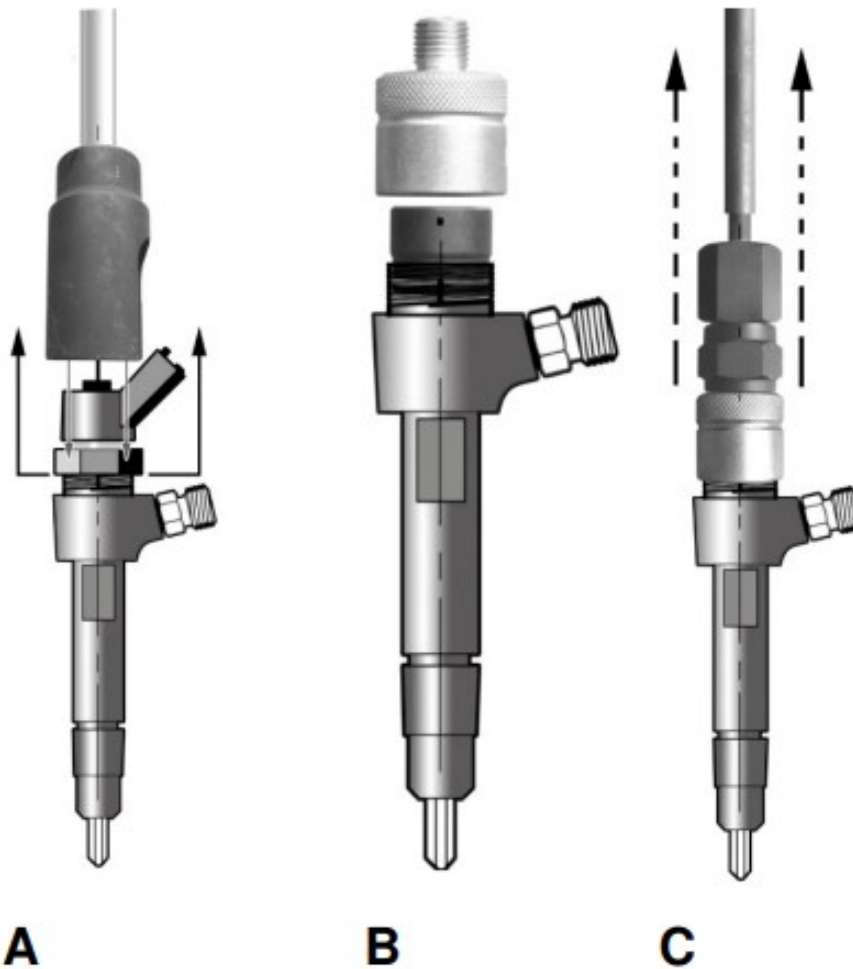
Note!

The technique required for extraction of the injectors depends of the system of your vehicle. If possible, always use an external adaptor first. If the injector nozzle cannot be extracted even with sufficient effort, use an internal adaptor instead. Before working on the fuel system, make sure that it is not under pressure. Refer to the producer's user's manual to know how to depressurise the system. Disconnect the cables and cable connections of the injector nozzles according to the producer's instructions. Remove all carbon deposits found around the injectors. Remove the electrical unit from the injector.

Use

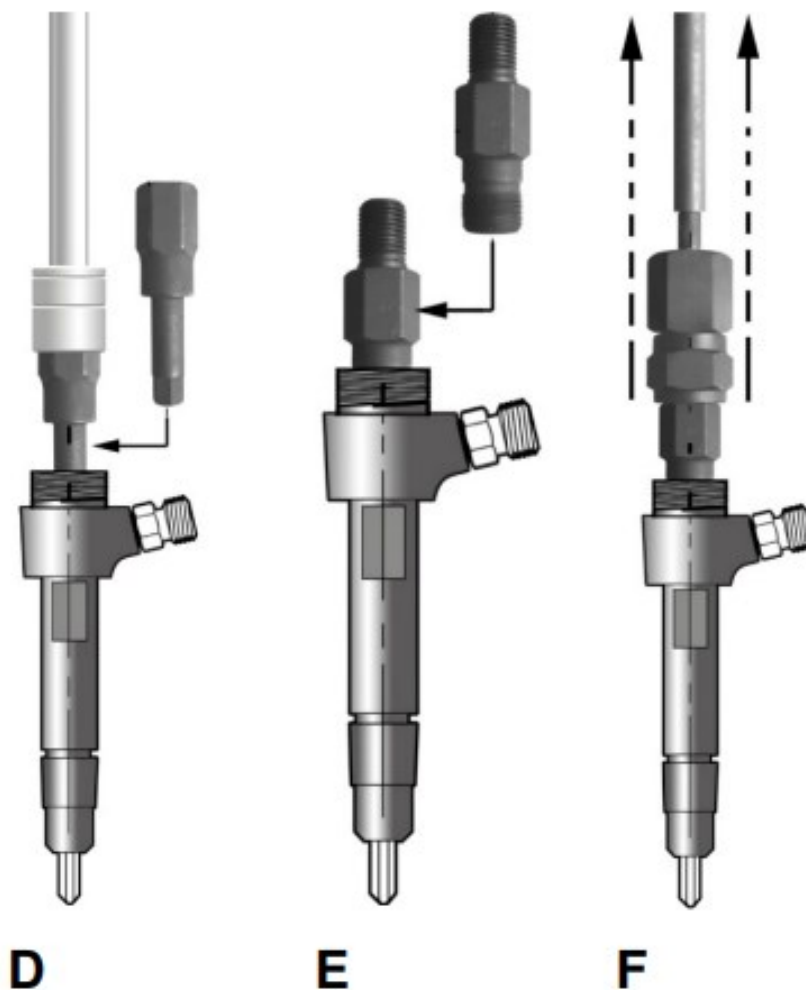
Using an external adaptor

1. Remove the electrical unit (see A).
2. Apply the male-threaded adaptor to the top of the injector (see B).
3. Connect the slide hammer to the male-threaded adaptor (see C).
4. The injector can be removed with sufficient effort applied to the slide hammer.
5. After extracting the injector, it is advisable to only use a new or checked-up injector.
6. Obey the producer's installation and safety instructions.



Using an internal adaptor

1. Remove the electrical unit.
2. Set in a special internal hexagon wrench and turn it in anti-clockwise direction to remove the inner tube (see D).
3. Screw the corresponding internal adaptor into the thread of the injector and tighten it with the help of a wrench (see E).
4. Screw the slide hammer into the adaptor.
5. The injector can be removed with sufficient effort applied to the slide hammer (see F).
6. Be prepared to the sudden disconnection of the injector from the cylinder head.
7. After extracting the injector, it is advisable to only use a new or checked-up injector.
8. Obey the producer's installation and safety instructions.



Note! To protect the thread, tighten well all adaptors.

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