



Diesel Injector Remover
VAG - TDI

LASER[®]

Instruction

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TOOL CONNECTION
The Complete Connection

Diesel Injector Remover – Volkswagen Audi Group - TDi

Engine codes ALH | AHU | 1Z

This specialist kit is designed primarily for removing seized diesel injectors from VAG TDi engines. The set includes a 0.5kg slide hammer with threaded adaptors in direct, offset and hook profiles.

Always allow the engine to cool down (at least 4 hours) before attempting to remove the injectors.

It can be beneficial to only work on two injectors at a time (cylinders 2&3) and then re-start the engine, then proceed to work on (cylinders 1&4).

Instructions

1. Remove the fasteners holding the engine cover.
2. To ensure dirt or carbon does not go into the fuel system; make sure all areas around the fuel lines are clean.
3. Remove the plastic clips from the fuel lines.
4. Remove the braided fuel return line from the fuel pump to the No 4 injector and unclip from the vacuum reservoir.
5. Using a 17mm Flare nut Wrench (Part No. 4035) loosen the fuel lines at the pump and move them to one side to permit more access.
6. Lift all lines away from injectors. (Be careful to remove in sequence and do not bend or stretch them)
7. Ensure any fuel spills are wiped away.
8. Undo all clamps and initially try to loosen injectors.
9. Remove the needle lift sensor from No 3 Injector.
10. Remove remaining injector holders (13mm Socket)
11. Be careful to retain the special nut(s) and washer(s)
12. It is easier to leave the inter-injector fuel return lines on the injectors and disconnect them on the work bench following removal.
9. Re-attach the inter-injector fuel return lines, glow plug harness and all electrical connections.
10. Lower fuel lines towards injectors, press the line into the injector and tighten by hand.
11. Correctly torque down the injector side nuts.

Consult your workshop manual for the correct re-starting procedures.

The engine may shudder and stutter to start with but should settle down.

Check engine bay for leaks or loose wires, tools etc.

Removing the injectors

1. Clean up any carbon or build up on the injector holders to ensure a good seal when replacing.
2. Laser Tool's Injector Seat Cutter is available for this operation (Part No: 4597)
3. Use an air tool or vacuum suction to remove any loose debris around the injector seats.
4. It is advisable to always use a new sealing washer.
5. Take extra care not to damage the face of the copper washer as this is vital to ensure a correct seal.
6. Reverse the removal process and reinstall the injectors (new or reconditioned)
7. Add a spot of grease to the sealing washer to make sure it remains in place.
8. Re-install the injector holders and tighten to required torque.