

5478

LASER[®]

Injector Puller TDi PD

Instructions



Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186**. Normal wear and tear are excluded as are consumable items and abuse.



**TOOL
CONNECTION**
The Complete Connection

Distributed by The Tool Connection Ltd

Kington Road, Southam, Warwickshire CV47 0DR
T +44 (0) 1926 815000 F +44 (0) 1926 815888
info@toolconnection.co.uk www.toolconnection.co.uk

www.lasertools.co.uk

www.lasertools.co.uk

Injector Puller TDi PD

Enables the easy extraction of the Volkswagen and Audi PD type diesel injectors for the following models:

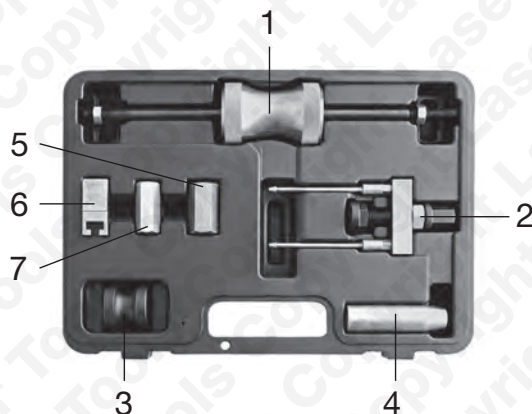
Applications

1.4 SDi/TDi | 1.9D/SDi/TDi (PD) | 2.0TDi (PD)
4-valves 2.5 TDi 2.5TDi (PD) | 2.8TDi (PD)
2.7/3.0TDi (PD)

Although the injectors don't suffer seizure like other types, the removal can be tricky due to limited space. This can sometimes lead to technicians using unsuitable tooling which can result in damage to the injectors themselves or the solenoids. The set is supplied in a sturdy blow mould case.

Components: (Refer to diagram)

1	Slide hammer
2	Direct overhead grip
3	Slide hammer hand grip
4	Offset adaptor
5	22mm adaptor
6	Hook adaptor
7	17mm adaptor



Instructions

As the set provides pulling methods for a number of different engine applications, the manufacturer's documentation or workshop manual must be referred to before the injector(s) can be removed. For example, the cam cover must be removed, in some applications the camshaft has to be set to a particular position, rocker arms may have to be removed, or the rocker arm shaft may have to be removed.

When refitting the injector or a new injector, pay particular attention to the manufacturer's installation sequence, regarding the pressing of the injector unit into the head, the alignment of the injector unit, the tightening sequence of the securing bolts and any final adjustment of the rocker arm setting (usually using a dial gauge).

The kit includes two methods of pulling: using the direct overhead grip (2) or the offset or hook adaptors (4 and 6). Use the suitable method according to the design of PD injector and how it is secured to the cylinder head.

To ensure dirt, oil or carbon does not enter the fuel system, clean all around the injector(s) to be removed, and around the fuel lines, etc.

Assemble the slide hammer by screwing hand grip (3) onto slide hammer shaft.

Using the Direct Overhead Grip

Once access has been gained to the injector unit to be removed (refer to manufacturer's documentation — see above), pull ball stud out of the top of the injector unit (if fitted).

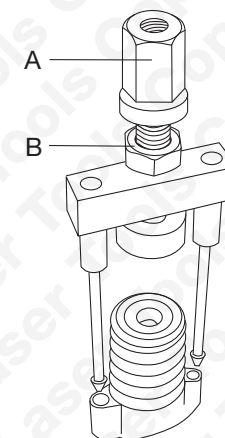
Undo the injector unit securing bolts using the special spline bit wrench (Laser Tools 5479).

Fit the Direct Overhead Grip (2) over the injector inserting the feet into the bolt holes on the injector unit. (Refer to diagram)

Turn the puller spindle (A) down lightly onto the top of the injector unit to apply slight pressure.

Then hand-tighten the lock nut (B).

Screw the shaft of the slide hammer onto puller Spindle (A). Then pull injector unit upwards out of cylinder head with careful, steady use of the slide hammer.



Using the Offset or Hook Grips

This type of injector unit will be secured by a tensioning block that locates in a slot in the side of the injector unit.

Once access has been gained to the injector unit to be removed (refer to manufacturer's documentation — see above), remove the tensioning block securing bolts using the special spline bit wrench (Laser Tools 5479). Then remove the block.

Assemble the suitable adaptor to the slide hammer and grip the injector unit. Then carefully pull injector unit upwards out of cylinder head with careful, steady use of the slide hammer, holding the injector unit so that it does not twist or cant over as it comes out.

Precautions

- If work is performed that requires adjustment of the injector unit via adjustment screw, the adjustment screw in the rocker arm and also the injector unit ball stud must be renewed, otherwise excessive wear of the components will result.
- It is strongly recommended to use new securing bolts for the injector units.
- Replace all relevant seals as recommended in the manufacturer's documentation
- The injector should be re-seated using the manufacturer's instructions (a special tool is sometimes required). If the injector unit is pulled down by the securing bolts there is a risk of the injector not being pulled correctly into its seat. This can result in engine running and starting problems. Thus the injector unit can only be secured after it has been correctly seated.
- To secure the injector unit, carefully screw in the new bolts using the special spline bit wrench (Laser Tools 5479). Then tighten following the manufacturer's recommendation.

Safety Instructions:

- Wear eye protection when using this equipment.
Be especially aware of sharp metal swarf and sticky grease / lubricant.
- DO NOT USE AIR TOOLS WITH THIS PRODUCT.



Safety First. Be Protected.