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TECHNICAL REPORT

Instructions for replacing the
injector-pump washer and
o-rings in VAG engines



PURPOSE

Removal procedure of pump-injector in 1.9 TDI engines of the AG Group to replace rings and washers kit.

INTRODUCTION

An injector pump, as its name says, is an **injection pump and injector**, equipped with a solenoid, grouped into a single component.

The injector-pump system is a unit that **connects the pressure generator with the fuel injection inside the combustion chamber**; different to the common rail, where the pressure is in the pipe, and then it is only the injector that decides when and how to let the fuel in. Each cylinder of the engine has its own injector-pump which, due to the high injection pressure necessary (2000 bar) is mechanically actuated by an injection camshaft for each one of the pump-injector and cylinder.

In a cylinder head repair it is highly recommended replacing washers and O-rings of the mentioned injectors. Those washers and O-rings are included in AJUSA upper and complete gaskets sets.

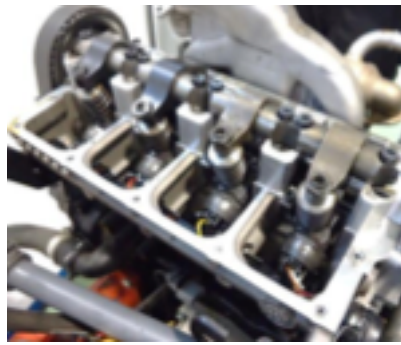


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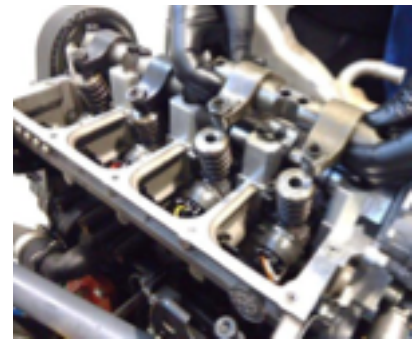
DESCRIPTION



Remove cylinder head cover.



Loosen bolts from the rocker arm shaft.



Remove rocker arm shaft.



Disconnect electric connector from the injector.



Loosen bolt from the holding plate of the injector.



Remove holding plate.



Remove the injector pulling up.



After removing the injector is advisable to clean the nozzle of possible traces of oil and carbon deposits.

- Replace all washers and O-rings:



Finally, after fitting all necessary gaskets, fit the injector in the cylinder head in the reverse order to disassembly and applying the specified torques on each bolt.