139

TECHNICAL REPORT

Oil seal assembly part number 61001500

01 reason

Our purpose is to show the key points of the assembly of the crankshaft seal 61001500, which is fitted to a variety of engines (1.6, 2.0, 2.3 dCi of the Renault/Fiat/Nissan group), ensuring the sealing of the crankshaft in the timing area.

02 description

The 61001500 oil seal has a number of features that make its installation peculiar. If they are not taken into account, the chances of a leak occurring after installation will be higher.

The main feature of the seal is its outward facing lip. Due to its design, it does not tolerate excessive pressure on the timing cover. In addition, the seal is fixed to the cover by means of an internal thread, so that the sealing with the timing cover must be perfect.

Another particular feature is that the oil seal is installed in the timing cover with a thread in the oil seal itself. This makes the sealing with the timing cover vitally important.

03 assembly tips

Before proceeding with the installation of the oil seal, it is imperative that the following items are attended to in order to prevent possible leaks:

1. Crankshaft Shaft Inspection: The condition of the crankshaft shaft must be thoroughly assessed prior to the installation of the seal. Excessive wear may compromise the efficiency of the assembly..

2. Timing cover conditions: The optimum condition of the timing cap is essential, as deterioration of the cap will compromise the effectiveness of the seal between the oil seal and the cap.

3. PCV Valve evaluation: A thorough inspection of the PCV valve is recommended to ensure proper operation. Any abnormalities could result in increased pressure in the lubrication system, leading to possible leakage at the seal.

04

how to check the condition of the PCV valve

To check the PCV valve, the following steps must be followed:

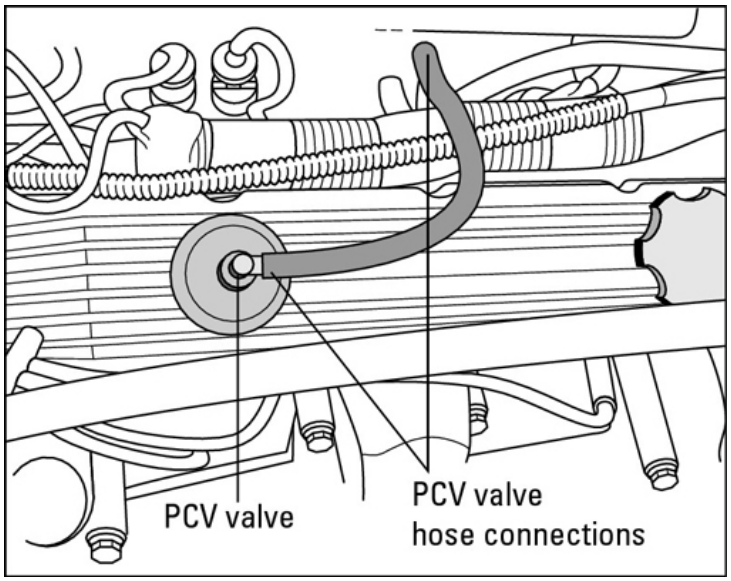
1. Locate the PCV valve and let the engine reach its normal operating temperature.

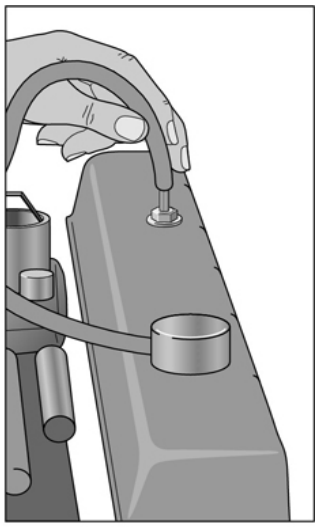
2. Disconnect the hose coming out of the PCV valve (the revs will drop).

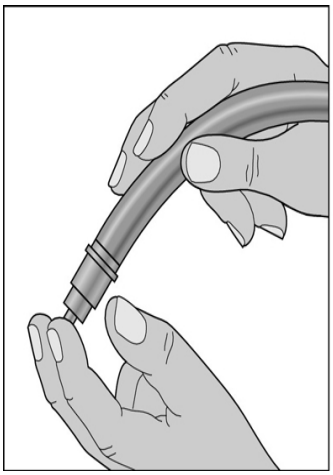
3. Plug the hose with your finger and check that there is suction.

4. Connect the hose back to the PCV valve and remove the valve.

5. Plug the inlet of the PCV valve with your finger and check that there is suction.







When fitting the crankshaft seal 61001500, it is important to note these details to avoid leaks associated with the seal.
Making sure that the crankshaft shaft is in good condition and the timing cover is in good condition are essential steps.
The particularity of the oil seal, with its outward facing lip, makes it necessary to check the PCV valve, following the steps discussed in this tip, to avoid overpressure in the lubrication circuit..