

Removal and Installation of Oil Relief Valve in Main Oilway

Job No.

18-3

A. OM 636

The design of the oil relief valve in the main oilway Part No. 136 180 04 15 is the same for all engines with a pneumatic governor on the injection pump (see Figure 18-7/1 and 18-7/3). The opening pressure of this oil relief valve is 8 atm. which is marked on the cap of the relief valve (see Figure 18-7/1).

The opening pressure had temporarily been limited to 6 atm., but was again changed to 8 atm. Oil valves with the old adjustment (6 atm.) must always be replaced or modified to 8 atm. After such a modification the figure 8 must be punched on the cap of the relief valve.

Engines with injection pumps equipped with a centrifugal governor are furnished with a shorter oil relief valve in the main oilway, Part No. 636 180 01 15, due to the lack of space (see Figure 18-7/2); the opening pressure is 7 atm.

Removal:

1. Unscrew the oil relief valve. On engines with centrifugal governor start with the removal of the injection pump (see Job No. 07-11).

Note: Clean and check the oil relief valve (see Job No. 18-5).

Installation:

2. Install the oil relief valve with a new sealing ring (D 14×20 DIN 7603 Al).

On engines with centrifugal governor install the injection pump (see Job No. 07-11).

Note: After an operating period of several hours check the torque of the oil relief valve and the cap of the oil relief valve and tighten if necessary.

B. OM 621

Removal:

1. Unscrew screw plug including seal ring. Then unscrew the oil pressure relief valve (6 atm.) situated on the upper longitudinal oil duct (see Figure 18-3/1).

Note: Cleaning and checking the oil pressure relief valve (see Job No. 18-5).

Installation:

2. Screw in the oil pressure relief valve and then the screw plug including a new seal ring.

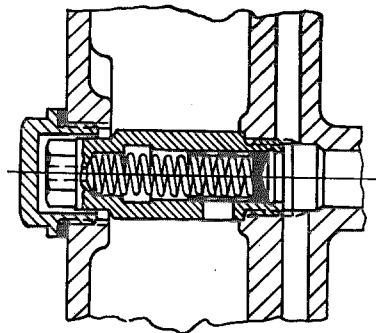


Figure 18-3/1

Oil pressure relief valve in the oil gallery, OM 621