

A. OM 636

The removal and installation of the oil pump is similar for the engines of all types. However, the different oil pump versions have to be taken into consideration when installing a new oil pump (see Table of Oil Pumps, Page 18-11/2 and Job No. 18-4, Section A).

Removal:

1. Remove the oil pan (see Job No. 01-21).
2. Unscrew the hexagon screw securing the pump in the crankcase and take out oil pump. If the oil pump sticks in the bore of the crankcase, then drive it out carefully with a plastic hammer (see Figure 18-11/1).

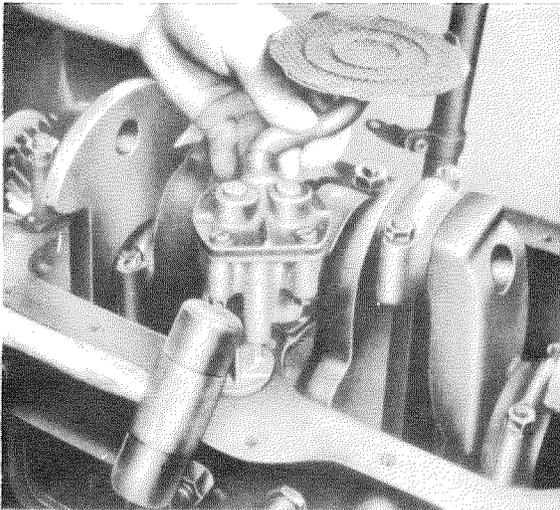


Figure 18-11/1

Note: Before the installing of an oil pump check the plugs (7) in the machining holes of the camshaft bearing oilways for tight seating (see Job No. 18-1, Section A, Figure 18-1/2).

Repairing of the Oil Pump
see Job No. 18-14

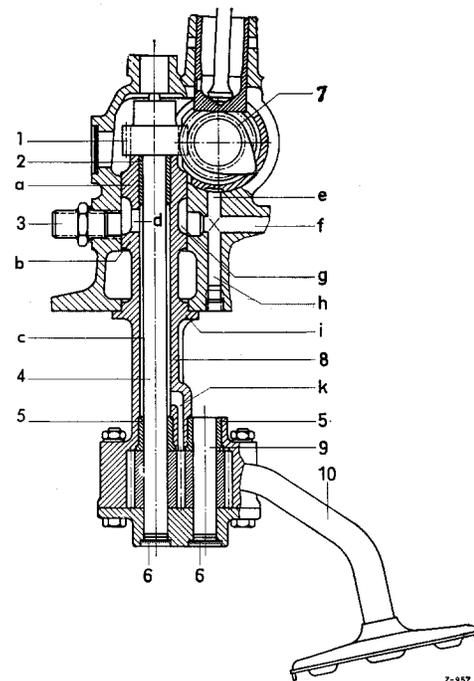


Figure 18-11/2

- 1 Spiral gear on the oil pump drive shaft
- 2 Upper bearing bushing in pump housing
- 3 Oil outlet from the pump to the oil filter
- 4 Oil pump drive shaft with gear
- 5 Lower bearing bushings in pump housing
- 6 Plug cap in oil pump housing cover
- 7 Camshaft with spiral gear
- 8 Pump housing
- 9 Gear wheel with shaft
- 10 Suction pipe with suction strainer

- a Upper collar of pump housing
- b Lower collar of pump housing
- c Oilway and bore for the oil pump drive shaft
- d Oil outlet hole from pump housing to oil filter
- e Oilway to camshaft bearing
- f Oilway to crankshaft bearing
- g Recess in pump housing as oil passage from oil filter to the main oilway in crankcase
- h Machining hole closed with plug
- i Mounting flange
- k Oilway from the gear wheels to the oilway c

Installation:

3. Measure the bore in the crankcase and the collar of the oil pump and determine clearance.

The max. permissible clearance is 0.03 mm.

If this clearance is exceeded, select a pump with a larger diameter.

Note: The oil pump is seated with the collar (a) and (b) in the crankcase and must well seal the bore at these points, so that

the oil pressure is not reduced (see Figure 18-11/2).

4. Clean the bore in the crankcase and install the oil pump. Make sure that the spiral gears are engaged during inserting of the oil pump.
5. Secure the oil pump with hexagon screw and lock washer.
6. Install the oil pan (see Job No. 01-21).

Table of the installed Oil Pumps

Part No.	Type Designation of the Engines		
636 180 13 01 (3rd version) 636 180 19 01 (4th version)	636.930		
636 180 14 01 (3rd version) 636 180 21 01 (4th version)	636. { 919 934 917-340		
636 180 16 01 (3rd version) 636 180 18 01 (4th version)	636. { 912 914 932 933 936	636.917/ { 0 2 4 5 6 9 10 11 13 14 15 16 17 18 19 20 21 22 24 25 26 27 30 31 32	636.917- { 00 040 050 090 120 180 190 240 251 252 253 260 270 271 272 280 290 300 320 330 350 360
636 180 17 01 (3rd version) 636 180 20 01 (4th version)	636. { 915 916 918 931 935	636.917/ { 3 23 28 29 33	636.917- { 021 022 023 221 222 223 310 370