

To remove lubricating oil pump

1. Remove lubricating oil sump as shown earlier.
2. Remove the three setscrews at bottom of timing case front cover and the two nuts at bottom of timing case. Remove bottom half of timing case.
3. Remove pump suction pipe and strainer and disconnect delivery pipe from pump to cylinder block.
4. Remove circlip and move idler gear forward.
5. Remove the three setscrews which fasten lubricating oil pump to front main bearing cap and remove the pump (see fig. M7).

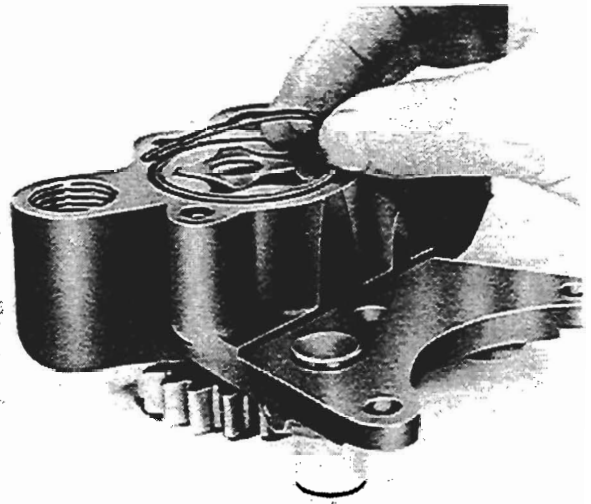


Fig. M8

To dismantle lubricating oil pump

1. Remove idler gear.
2. The lubricating oil pump gear must not be removed as this can reduce the interference fit of the gear. A pump which is worn can not be corrected as separate parts are not available.
3. Remove the three screws with a special screwdriver and remove the pump end plate.
4. Remove rubber sealing ring – where fitted (see fig. M8).
5. Remove outer rotor from pump body.
6. The lubricating oil relief valve is fitted in the body of the oil pump. It is adjusted before the engine goes out from the factory.

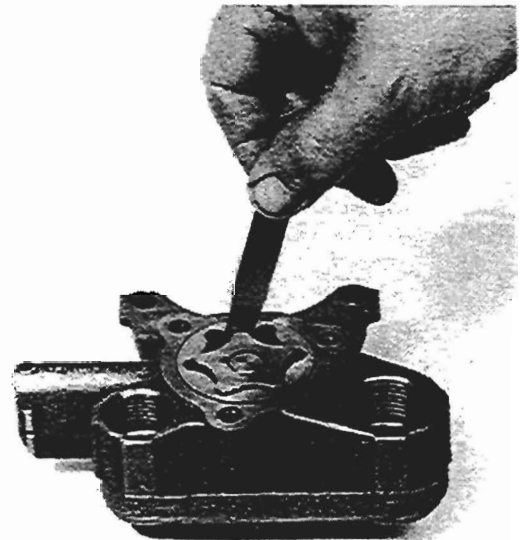


Fig. M9

Lubricating oil pump inspection

The clearances for new pumps are given in Section C.

1. Thoroughly clean all parts and check for cracks and other damage.
2. Install outer rotor in pump body. Ensure edge of rotor with chamfer is to the inside of the pump body. Check clearance between maximum diameter of inner rotor and minimum diameter of outer rotor at all positions (see fig. M9).
3. Check the clearances between top of rotors and end of pump body (see fig. M10).

Note: If an oil pump is worn so that it does not give the correct lubricating oil pressure, it must be renewed. Component parts are not supplied separately.

To assemble lubricating oil pump

1. Fit outer rotor in pump body with edge of rotor with chamfer to the inside of the body.
2. Fit rubber sealing ring – where fitted.
3. Fit end cover and tighten screws.



Fig. M10

LUBRICATION SYSTEM—M.6

To fit lubricating oil pump

1. Fill lubricating oil pump with clean lubricating oil.
2. Fit idler gear to shaft but do not fasten with circlip.
3. Fit lubricating oil pump to front main bearing cap and fasten with three setscrews. Connect delivery pipe from pump to cylinder block.
4. Fasten idler gear with circlip.
5. Fit suction pipe and strainer.
6. Fit timing case bottom half and tighten two nuts and washers to timing case top half.
7. Fit the three setscrews at the bottom of the timing case front cover.
8. Fit the lubricating oil sump as already given.

Note: Before the engine is started, it must be turned with the stop control operated until lubricating oil pressure is shown on the gauge. If an electrical solenoid stop control is fitted, turn the start switch to the "R" position.

SECTION N Cooling System

