

# Complete Removal and Installation of Oil Pan **03.1**

M 116, M 117  
(Type 107)

## Oil Capacities in lits.

Crankcase (without oil filter) max./min.	7.5/5.5
Oil filter	0.75
Air oil cooler	0.4
Total oil capacity	8.65

## Tightening Torques in kpm

Fastening bolts of oil pan	0.8–0.2
Bolt for attaching hub to crankshaft front	25–27

## Special Tool

Socket wrench for cranking engine	000 589 61 09 00
-----------------------------------	------------------

## Removal

**1** Place tool combination (Fig. 1) on hex. bolt for attaching hub to crankshaft and turn engine to TDC.

**Note:** Turn engine in direction of rotation only.

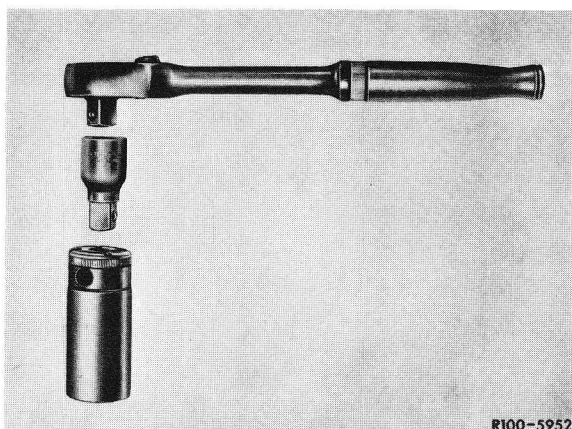


Fig. 1

**2** Remove front axle and steering linkage (33.1–100).

**3** Drain engine oil. For automatic transmission, drain transmission fluid from transmission fluid cooler.

**4** Unscrew holder of oil damper reservoir to oil pan.

**5** Mark position of crankshaft pulley in relation to vibration damper.

**6** Unscrew vibration damper and pulley from hub and remove (03.1–340).

**7** On vehicles with air-conditioning system, remove coolant compressor together with carrier. Loosen two pipes on carrier for high-pressure oil pump.

Tie up compressor with two wires in upward direction.

**8** On vehicles with automatic transmission, disconnect transmission fluid lines (1) and remove (Fig. 2).

**9** Unscrew cover plate (81) and both supporting angle brackets (54) (Fig. 2).

# 03.1 Complete Removal and Installation of Oil Pan

---

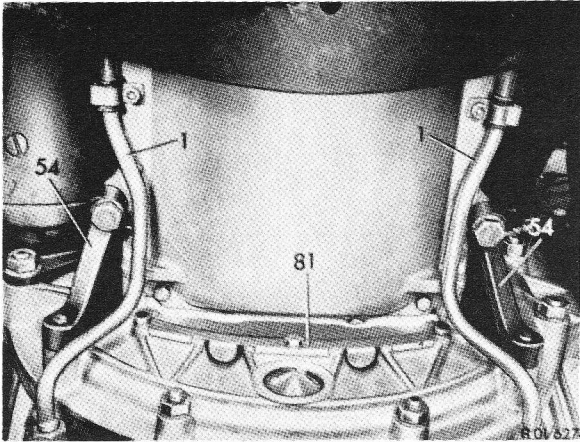


Fig. 2

1 Transmission fluid line      81 Cover plate  
54 Supporting angle piece

**10** Unscrew guide tube for oil dipstick on timing housing cover.

**11** Loosen oil pan and remove.

**12** Remove gasket, clean parting surfaces on oil pan and crankcase.

## Installation

---

**13** Place new oil pan gasket on oil pan parting surface and protect with grease against slipping.

**14** For further installation proceed vice versa to removal.

**Caution!** One of the six fastening holes in the hub is **eccentric** to bolt hole diameter. As a result, the vibration damper and the pulley can be mounted only in a certain position.

**15** Fill in engine oil, on vehicles with automatic transmission fill in transmission fluid.

**16** Run engine and check for leaks.