

Tightening Torques in kpm

Hex nut to drive shaft	6
Pipe nut of high-pressure expanding hose	5.5–6.0

Special Tool

Pulling fixture	108 589 02 33 00
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Removal

1 Unscrew knurled nut (8) on supply tank (2). Remove closing cover (3), compression spring and damping plate. Drain oil from supply tank with syringe (Fig. 1).

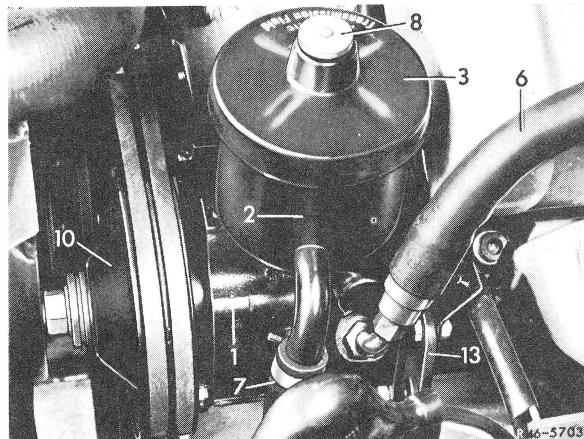


Fig. 1

1 High-pressure oil pump	7 Return hose
2 Supply tank	8 Knurled nut
3 Closing cover	10 Pulley
6 High-pressure expanding hose	13 Carrier

2 Loosen high-pressure expanding hose (6) and return hose (7) on high-pressure oil pump. Close connections on pump and on hoses with blind plugs (Fig. 1).

3 Loosen hex nut (22) on fastening plate and hex bolt (23) on support (14). Push high-pressure oil pump toward engine and remove both V-belts from pulley (10) (Fig. 2).

4 Unscrew hex bolts and nuts and remove high-pressure oil pump including carrier.

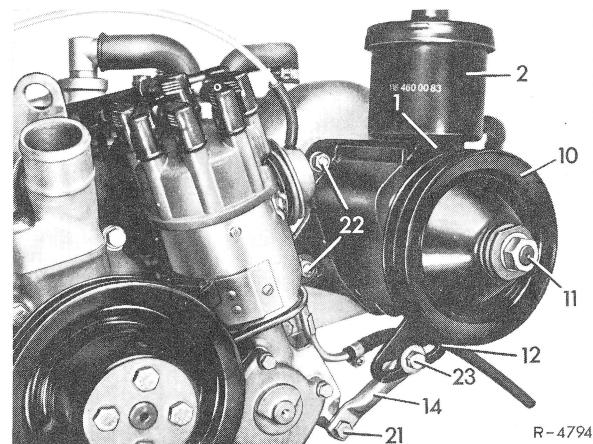


Fig. 2

1 High-pressure oil pump	21 Hex bolt with spring washer and hex nut
2 Supply tank	22 Hex nut with washer
10 Pulley	23 Hex bolt with washer, snap ring and hex nut
11 Hex nut	
12 Carrier for high pressure oil pump	
13 Support	

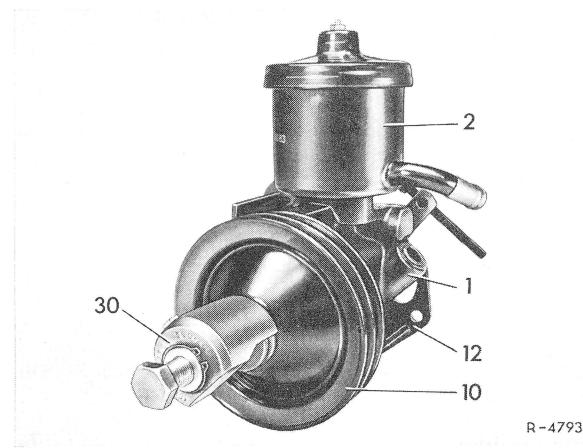


Fig. 3

1 High-pressure oil pump	12 Carrier
2 Supply tank	30 Pulling fixture
10 Pulley	108 589 02 33 00

5 Unscrew hex nut from drive shaft while counterholding pulley at flats (SW 36).

6 Pull pulley (10) from drive shaft with pulling fixture (30) (Fig. 3).

7 Unscrew hex bolts and remove high-pressure oil pump from carrier (12) (Fig. 3).

Installation

8 Insert high-pressure oil pump into carrier (12) and attach with hex bolts. The threads of the rear bolt are measured in inches (Fig. 3).

9 Attach pulley to drive shaft, making sure that the taper of the drive shaft and the flange on the pulley are free of grease. Tighten hex nut to 6 kpm.

10 Tighten hex bolts (20) holding plate (13) to cylinder head (Fig. 4).

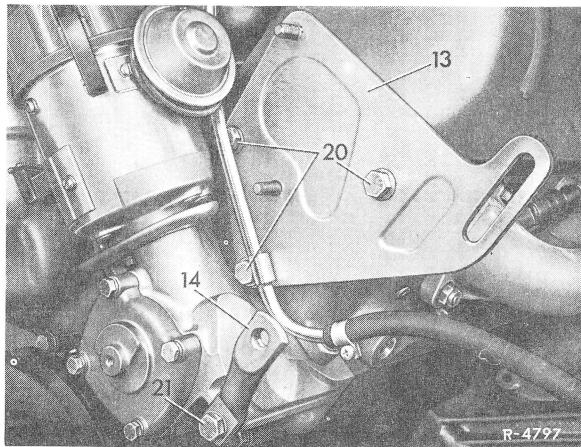


Fig. 4

13 Fastening plate
14 Support
20 Hex bolt with washer

11 Attach high-pressure oil pump including carrier (12) to fastening plate (13) and support. But do not yet tighten hex bolts or nuts (Fig. 5).

12 Place both V-belts on pulley (10), **tension** V-belts and tighten hex bolts or nuts (Fig. 5).

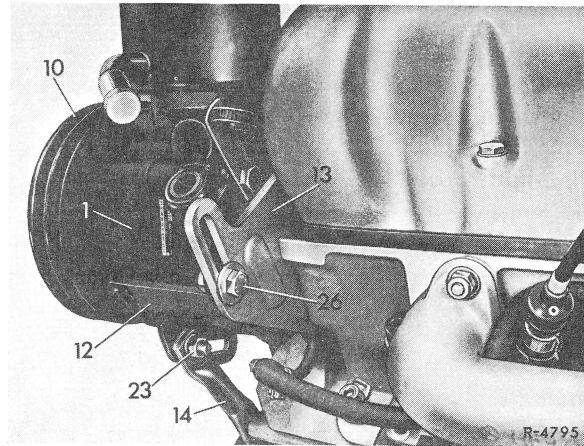


Fig. 5

1 High-pressure oil pump	23 Hex bolt with snap ring and hex nut
10 Double belt pulley	26 Hex bolt with washer, snap ring and hex nut
12 Carrier for high pressure oil pump	13 Fastening plate
	14 Support

13 Connect return hose (11 a) to supply tank (Fig. 6).

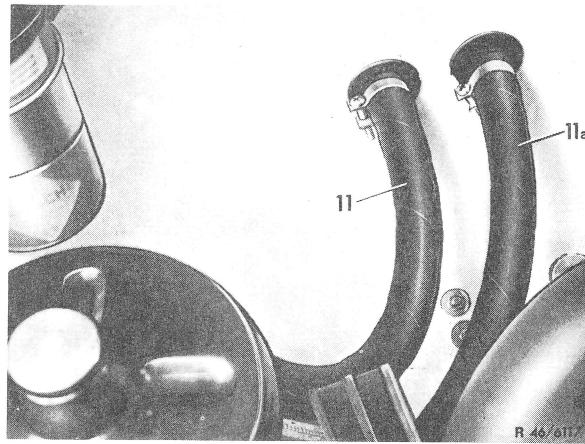


Fig. 6

11 Return hose to oil cooler pipe
11 a Return hose to supply tank

14 Connect high-pressure expanding hose. Tightening torque of pipe nut 5.5–6.0 kpm (reference value).

15 Fill supply tank with ATF. Run engine while adding ATF.

16 Check system for leaks.