



Service Repair Manual

Models

160H NA MOTOR GRADER

Product: MOTOR GRADER

Model: 160H NA MOTOR GRADER 3HR

Configuration: 3306 Engine Rebuild Kit & Related Parts for 140H, 160H Motorgrader 3HR00001-UP (MACHINE)

Disassembly and Assembly 3304B and 3306B Engines for Caterpillar Built Machines

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i07103919

Fuel Injection Pump Housing and Governor - Remove

SMCS - 1286-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	8S-2264	Pump Impeller Puller	1
	8B-7560	Step Plate	1
	0T-0513	Bolt	2
	5P-1075	Hard Washer	2

Start By:

- Remove the fuel injection lines. Refer to Disassembly and Assembly, "Fuel Injection Lines - Remove and Install".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

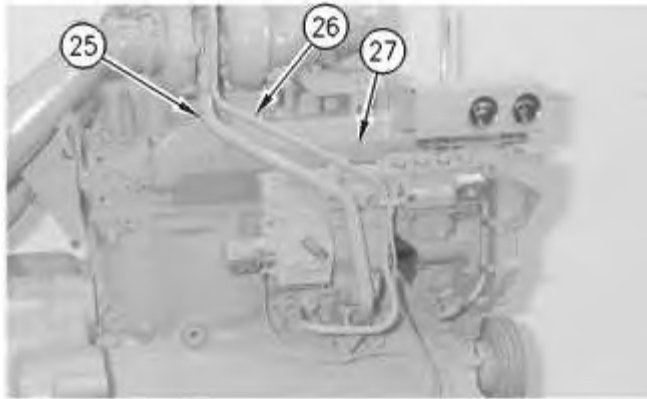


Illustration 1
3304B Engine

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1. On the 3304B engine, remove oil supply line (26), oil drain line (25), and heat shield (27). Inspect the O-ring seal around oil drain line (25). Replace the O-ring seal if the O-ring seal is damaged. Remove the gaskets and the screen from the top of the turbocharger.

Note: The following illustrations are of a 3306B engine.



Illustration 2

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2. Remove six nuts (1) and the washers and remove cover (2).

Note: Separate nut (1) and the mounting stud, if the nut and the mounting stud come out of the housing together. Apply thread sealant to the mounting studs and reinstall the mounting studs to a depth of 19.0 ± 0.8 mm (0.74 ± 0.03 inch).

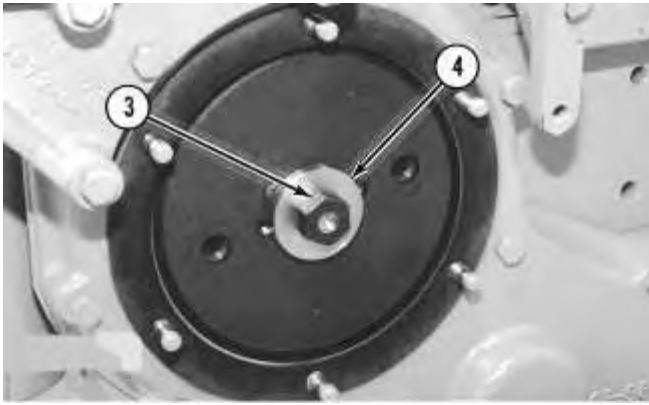


Illustration 3

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3. Remove center bolt (3) and spacer (4).

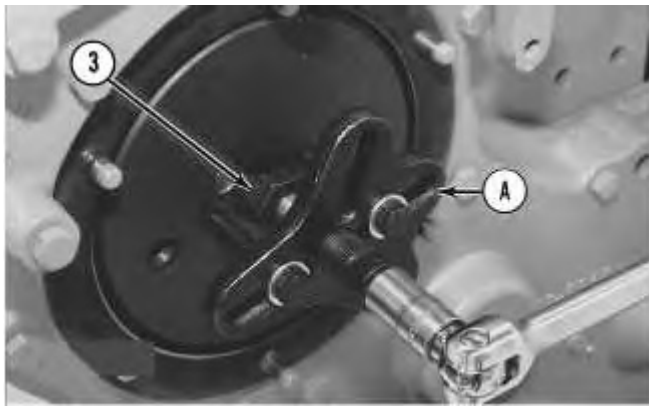


Illustration 4

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4. Install center bolt (3) and leave a gap of 6.4 mm (.25 inch). Install Tool (A), as shown. Tighten the stud to loosen the fuel pump drive gear from the taper on the fuel injection pump camshaft.
5. Remove Tool (A) and bolt (3).

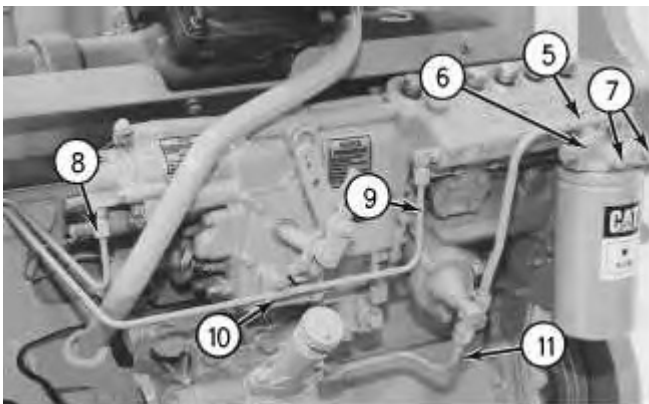


Illustration 5

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- Remove tube assemblies (5) and (11). Disconnect one end of tube assemblies (8) and (9). Disconnect clamp (10). Remove two bolts (7) and the washers and remove filter base (6) with the filter and the gasket.

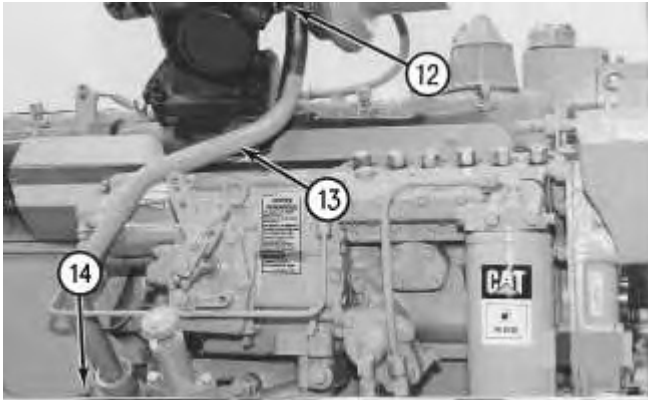


Illustration 6

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- Remove two bolts (12), the washers and the gasket. Remove two bolts (14) and the gasket. Remove tube assembly (13).

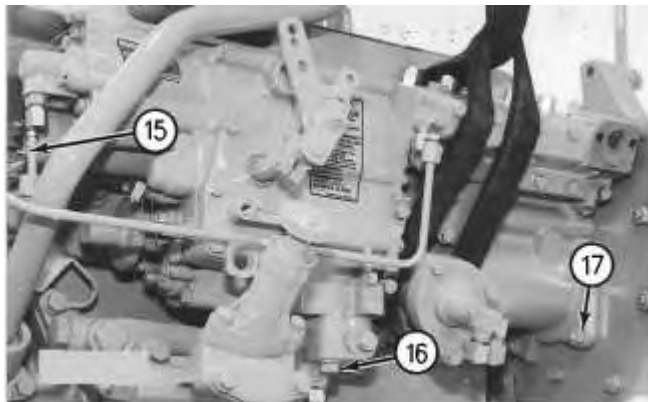


Illustration 7

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- Use a lifting sling and a hoist to secure the fuel injection pump housing and the governor.

Note: Remove the heat shield (not shown) if equipped.

- Disconnect solenoid ground (15). Remove three nuts (17). Remove two bolts (16) and the washers. Remove the fuel injection pump housing and the governor from the engine. To safely remove the fuel injection pump housing and the governor, use two technicians or a suitable lifting device. The weight of the 3304B fuel injection pump housing and governor is 24 kg (53 lb). The weight of the 3306B fuel injection pump housing and governor is 32 Kg (70 lb).

- Remove the O-ring seals from the fuel injection pump housing and the governor.

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