Workshop Manual

AH250D/300D

Vol No.: W8TDE-00

HITACHI

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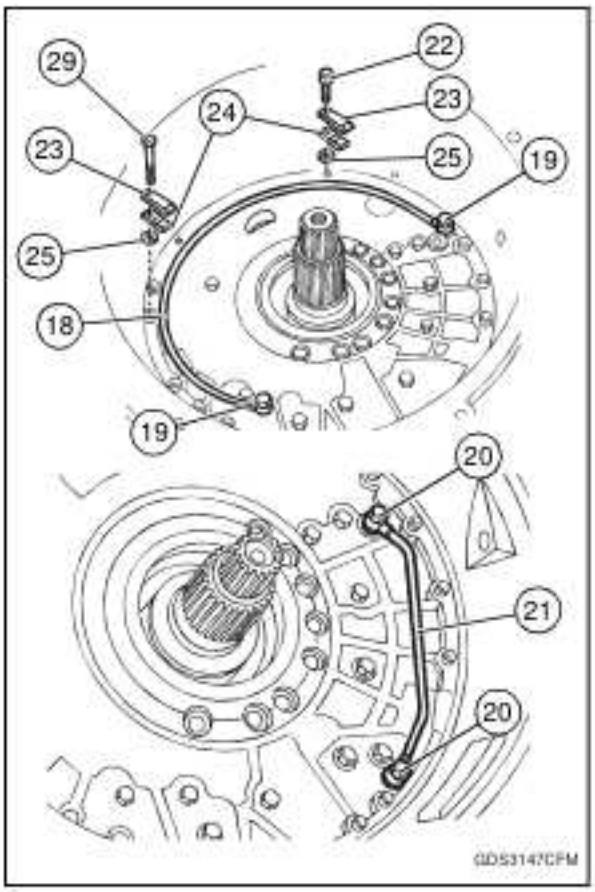
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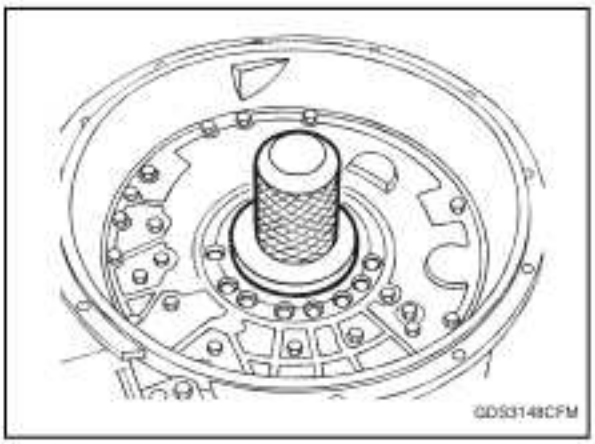


Install oil lines (18 and 21) as shown. Tighten banjo cap screws (19 and 20) to specification.

Install Cover Plate and Auxiliary Drive Gears Specification

Oil Line Banjo Cap Screw Torque - 18 Nm (159 lb-in.)

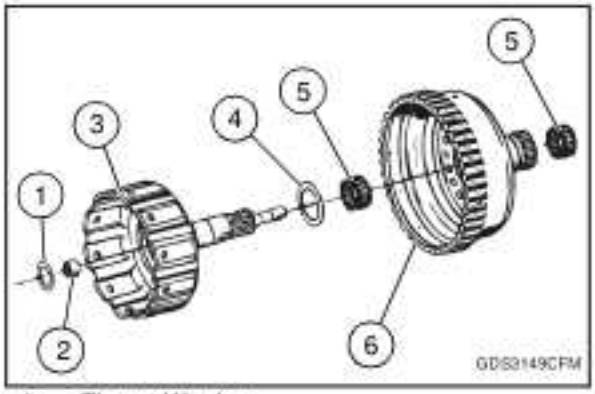
Install clamps and restrainers and tighten.



Apply thin layer of petroleum jelly to inner seal lip and a water soluble lubricant to outer seal edge.

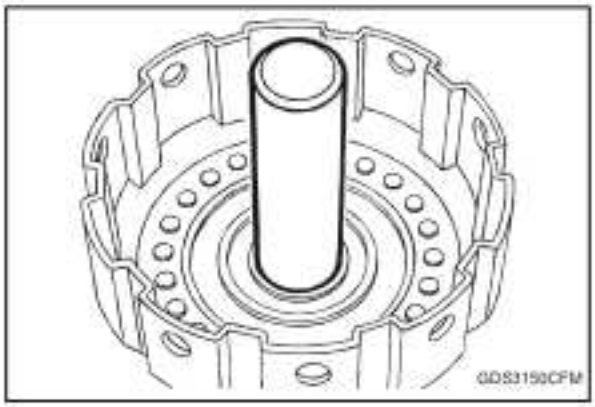
Install seal (17) with 281687 Drift.

Install Clutch C Element



1. Thrust Washer.
2. Needle Bearing.
3. Clutch C Drive Shaft.
4. Thrust Washer.
5. Needle Bearing (2 used).
6. Clutch C Hollow Shaft.

NOTE:Needle bearing (2) must installed with thick edge up and at a depth of 4.5 mμ± 0.5 mm (0.177 ± 0.02 in.).



If removed install needle bearing (2 previous figure) with 281697 Mounting. With thick edge of bearing toward driver, drive bearing to a depth of 4.5 mm ± 0.5 mm (0.177 ± 0.02 in.).

Install Clutch C Element Specification

Clutch C Needle Bearing Depth - 4.5 mm ± 0.5 mm (0.177 ± 0.02 in.)

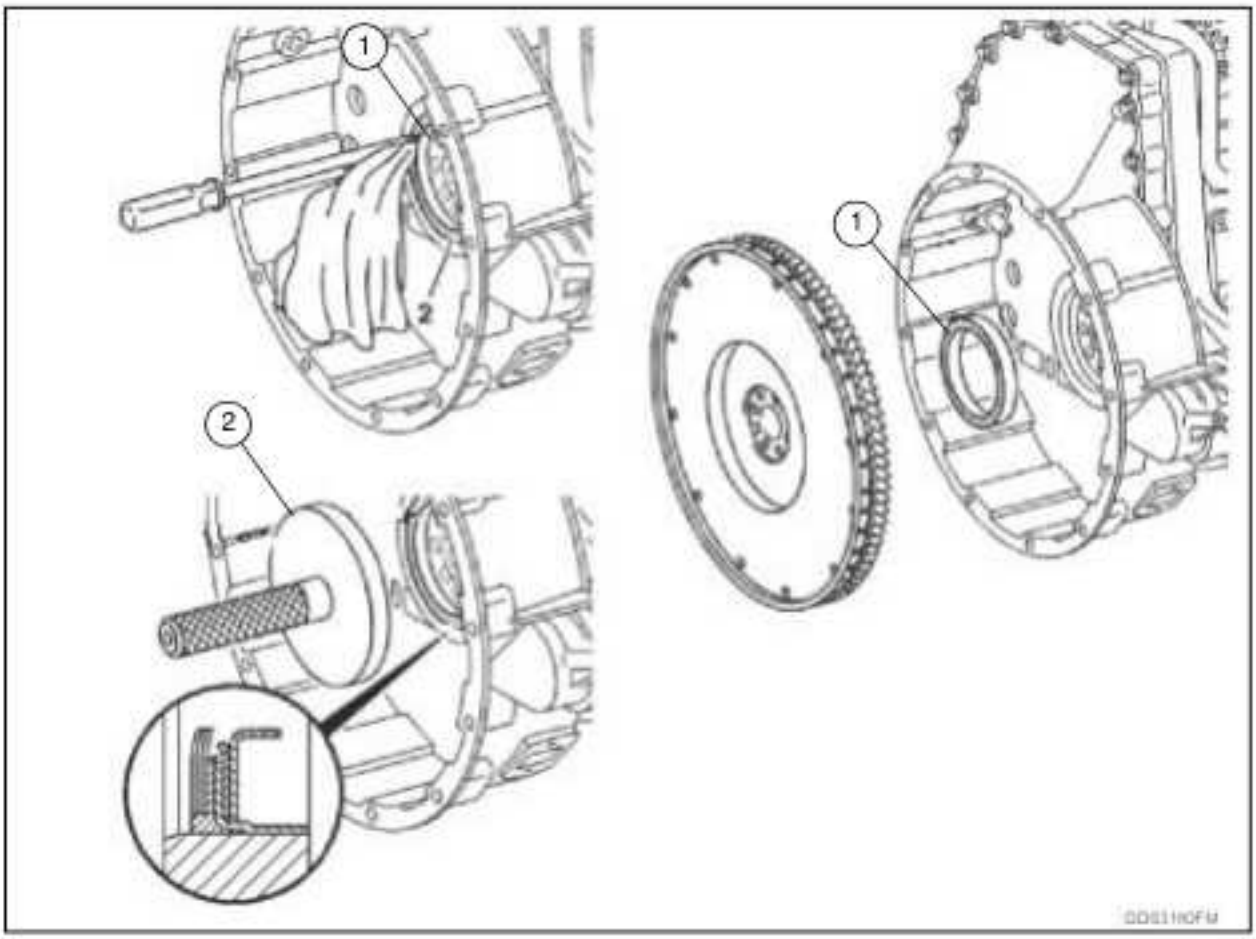
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CRANKSHAFT OIL SEALS

Remove and Install Rear Oil Seal

Remove the engine. **(See "Remove and Install" on page 105).**

Remove flywheel. **(See "FLYWHEEL" on page 167).**



Carefully remove rear oil seal (1) from timing case.

Inspect contact surface on flywheel for scores or signs of wear.

NOTE:Apply engine oil to lip of rear oil seal for conventional type seals. Install dry for fibre type seal.

Fit new oil seal (1) in timing case and press in with drift (2).

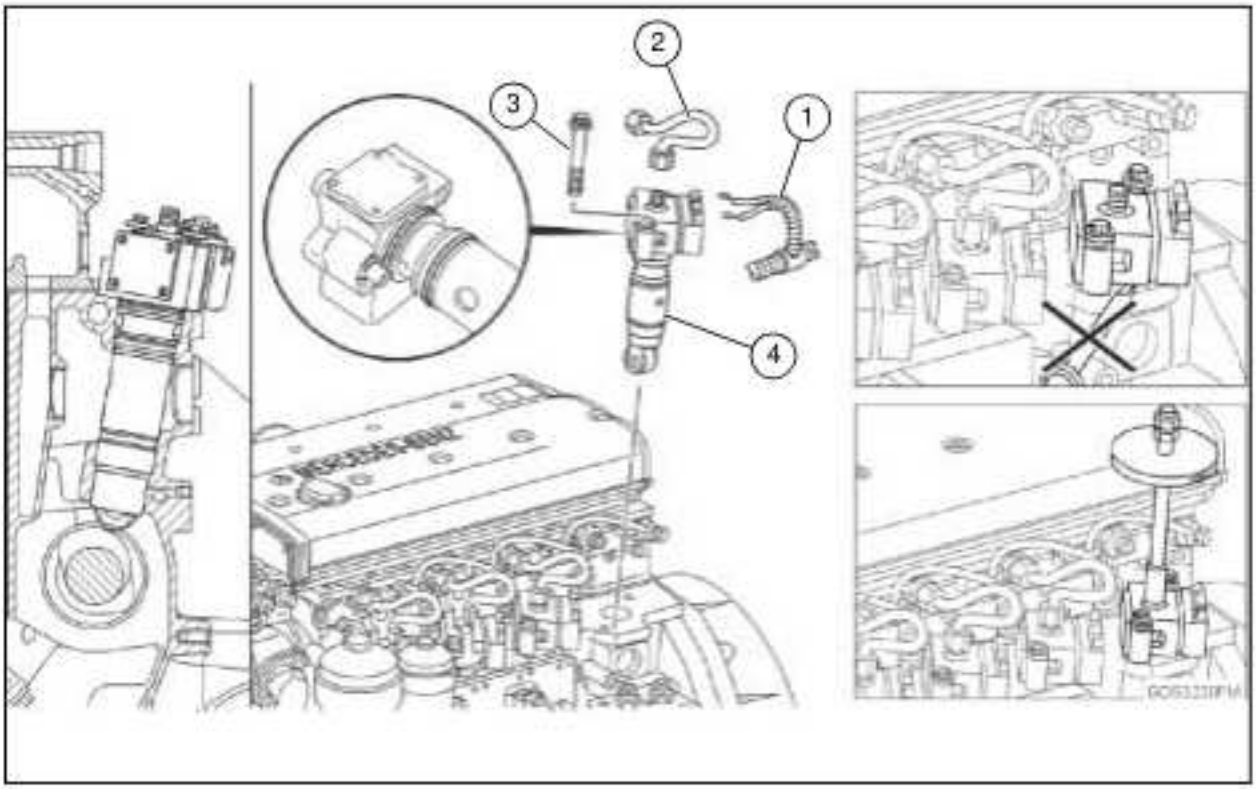
Install flywheel. **(See "FLYWHEEL" on page 167.)**

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REMOVE AND INSTALL ELECTRONIC UNIT INJECTOR (EUI)

Turn battery disconnect switch to OFF.

Remove air intake manifold. **(See "REMOVE AND INSTALL AIR INTAKE MANIFOLD" on page 225).**



Disconnect engine harness (1) from electronic unit injector (EUI).

Remove fuel line (2) from EUI and cylinder head.

If EUI is difficult to remove, rotate engine in direction of rotation to press EUI out of crankcase. To help this, a sliding hammer can also be used.

Remove cap screws (3) and EUI (4).

Inspect EUI. Replace o-rings, if necessary.

Install EUI and cap screws.

Electronic Unit Injector (EUI) Specification

Cap Screw Torque- - - - - - - - - - - - - - - - 65 Nm (48 lb-ft)

Install fuel line to cylinder head and EUI.

Connect engine harness to EUI.

Install air intake manifold. **(See "REMOVE AND INSTALL AIR INTAKE MANIFOLD" on page 225).**

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CHAPTER 5. ENGINE AUXILIARY SYSTEM

SECTION 5. EXTERNAL FUEL SUPPLY SYSTEMS

PRIMARY FUEL FILTER

Remove and Install Primary Fuel Filter (Water Separator)

Drain Primary Fuel Filter (Water Separator) until empty. Close drain screw. **(See Operator's Manual, CHAPTER 11, SECTION 1).**

Disconnect heater wire, if equipped.



1. Outlet Line.
2. Cap Screw and Nut (2 used).
3. Inlet Line.

Disconnect inlet line (3) and outlet line (1).

Remove cap screws and nuts (2). Remove filter assembly.

Repair or replace parts as necessary. **(See Replace Primary Fuel Filter (Water Separator) Operator's Manual, CHAPTE 14, SECTION 1).**

Install filter assembly, nuts, and cap screws.

Connect outlet line and inlet line.

Connect heater wire, if equipped.

Fill filter housing with clean fuel.

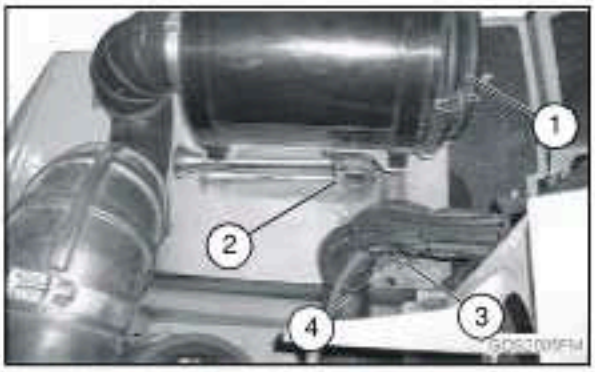
Prime Fuel System **(Operator's Manual, CHAPTER 17, SECTION 1).**

Remove and Install Fuel Tank

Drain fuel from fuel tank.

Remove and Install Fuel Tank Specification

Fuel Tank Capacity- - - - - - - - - - - - - - - - - 340 L (90 gal)



Remove air cleaner (1). Remove pneumatic line from air horn (2). Remove plate (3) and disconnect wiring harness from fuel level sender (4).

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CHAPTER 4. ENGINE

SECTION 1. REMOVAL AND INSTALLATION

ENGINE

Remove and Install Engine

Turn battery disconnect switch to **OFF**.

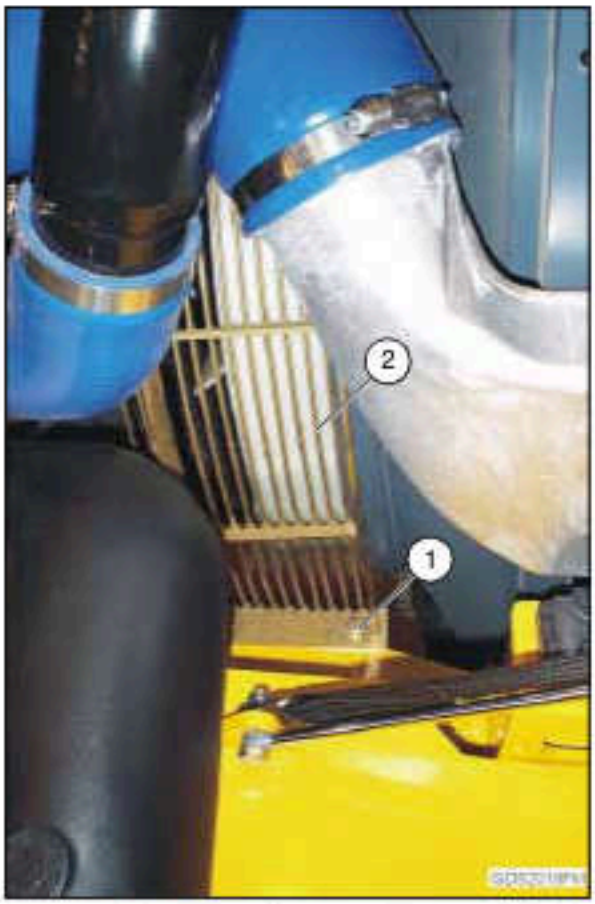
Remove hood. **(See "BONNET" on page 335).**

Lower belly plates.

NOTE:Mark all connectors, fittings and pipes clearly for correct installation.

Disconnect all wire harnesses.

Remove charge air after cooler and radiator. **(See "Remove and Install Charge Air Aftercooler" on page 241).**



Remove bolts (1) and fan guard (2) from the left and right side.



Disconnect high and low pressure lines from air conditioner compressor (1).

Disconnect wires from starter motor, alternator and harnesses connected to the engine.

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