Product: SKID STEER LOADER
Model: 248 SKID STEER LOADER 6LZ
Configuration: 236, 246, 248 Skid Steer Loader 6LZ00001-00999 (MACHINE) POWERED BY 3034 Engine

Disassembly and Assembly
3034 Engine for Caterpillar Built Machines
Media Number -SENR5013-08 **Publication Date -01/11/2008** **Date Updated -14/11/2008**

i01354467

Fuel Injection Pump - Remove

SMCS - 1251-011

Removal Procedure

Start By:

A. Remove the air inlet manifold. Refer to Disassembly and Assembly, "Inlet Manifold - Remove".
B. Remove the fuel shutoff solenoid. Refer to Disassembly and Assembly, "Fuel Shutoff Solenoid - Remove and Install".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

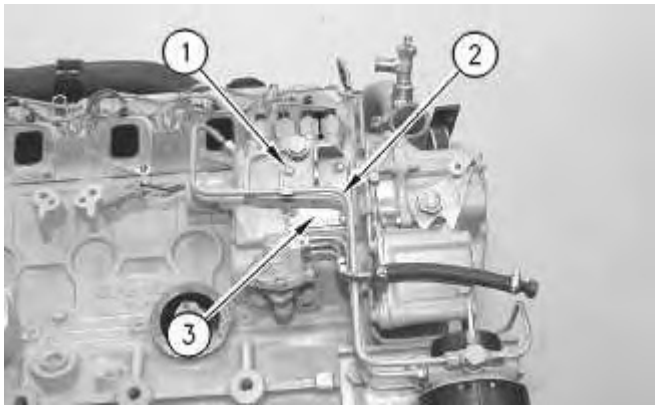

Illustration 1 g00599562

1. Remove fuel lines (2) from the engine. Immediately cap all openings or plug all openings in order to prevent contamination of the fuel system.
2. Remove bolts (1) and cover (3) from the engine.

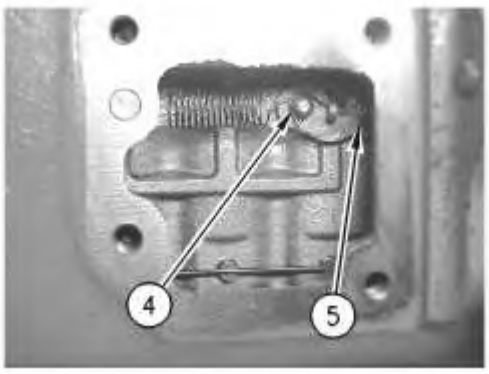

Illustration 2 g00720261

3. Disconnect spring (5) from the groove in pin (4) .

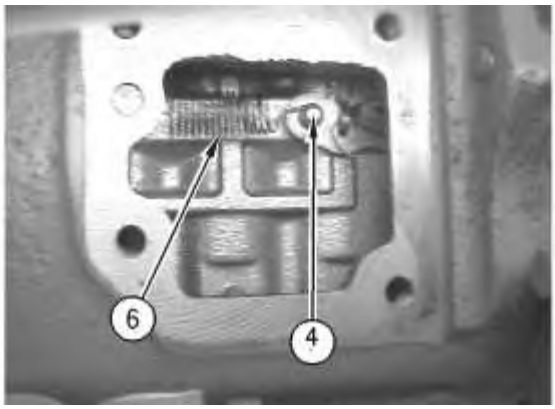

Illustration 3 g00720270

Note: Spring (6) may fall into the engine if the spring comes loose from pin (4) .

4. Disconnect spring (6) from the groove in pin (4) .

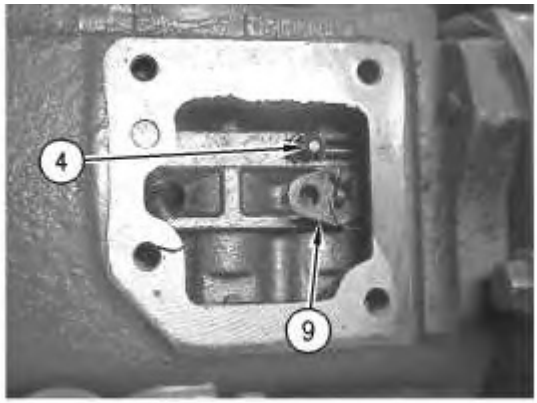

Illustration 4 g00720275

5. Disconnect governor control linkage (9) from pin (4) .

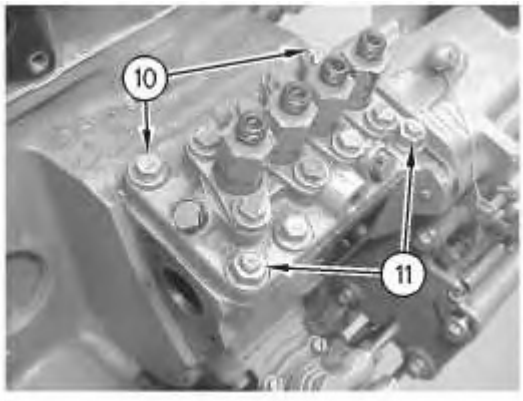

Illustration 5 g00720284

6. Remove bolts (10) and nuts (11) that secure the fuel injection pump to the engine.

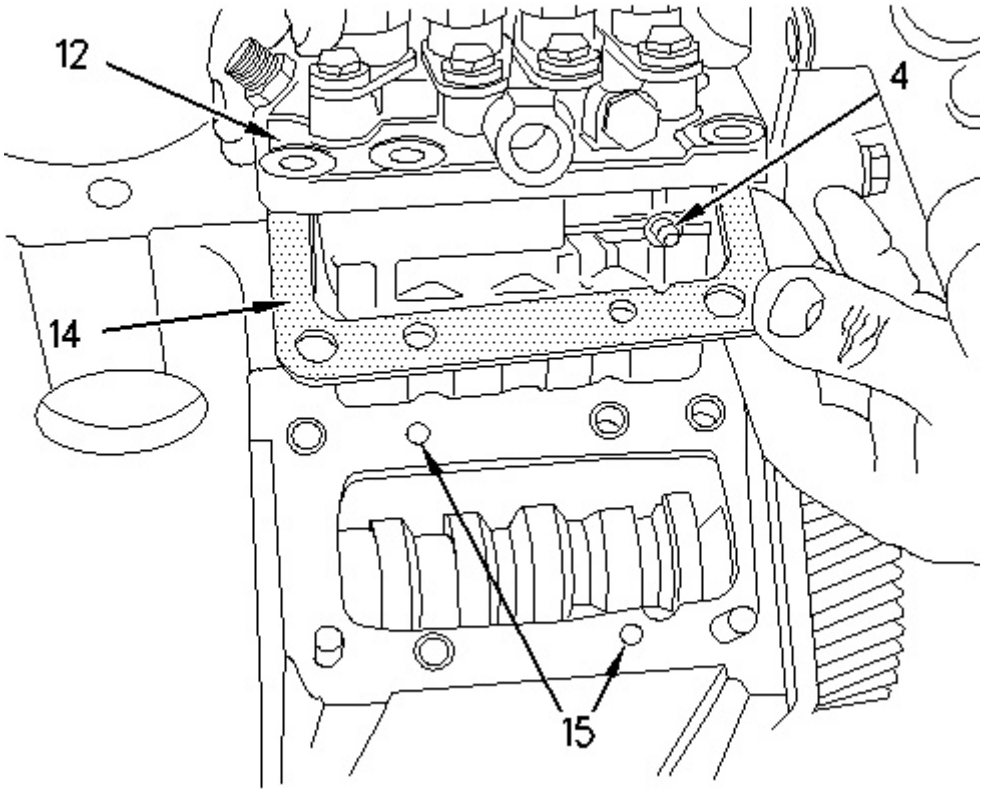

Illustration 6 g00720291

7. Remove fuel injection pump (12) from the engine.

   Note: Record the thickness of each shim and the number of shims for reassembly. The fuel injection timing is determined by the shim pack thickness that is between the fuel injection pump and the mounting face on the cylinder block. For more information on the fuel injection pump, refer to the Specifications Module, "Fuel Injection Pump" topic.

8. Remove shims (14) from fuel injection pump (12) .

9. Inspect dowels (15) for damage. If the dowels are damaged, use new dowels for replacement.

10. Inspect pin (4) for wear or damage. If pin (4) is worn or damaged, use a new pin for replacement.

11. Cover the opening in the fuel injection pump housing for fuel injection pump (12) in order to prevent debris from falling into the engine.

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i01354577

Fuel Injection Pump - Install

SMCS - 1251-012

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

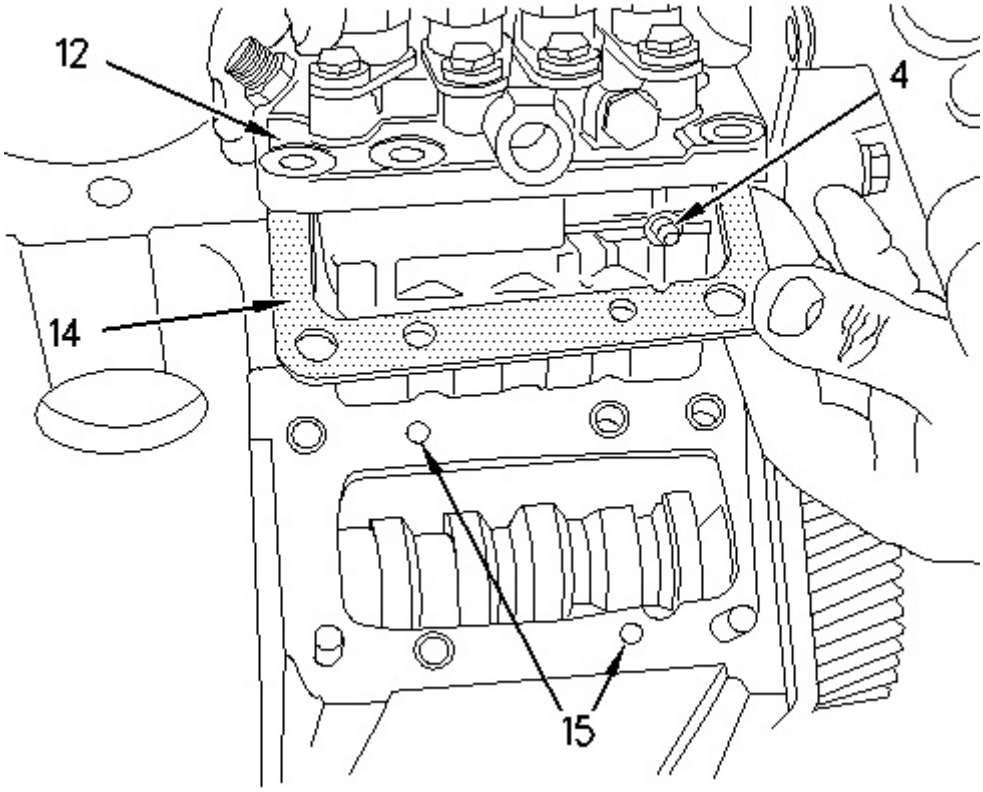

Illustration 1 g00720291

1. Make sure that the mating surface of the fuel injection pump housing and fuel injection pump (12) are clean and free from debris.
2. Position the correct number of shims (14) on the fuel injection pump housing. Refer to the Specifications Module, "Fuel Injection Pump" topic for more information.
3. Ensure that pin (4) is aligned with the notch in shims (14) and the notch in the cylinder block. Align dowels (15) with fuel injection pump (12). Put fuel injection pump (12) in position on the engine.

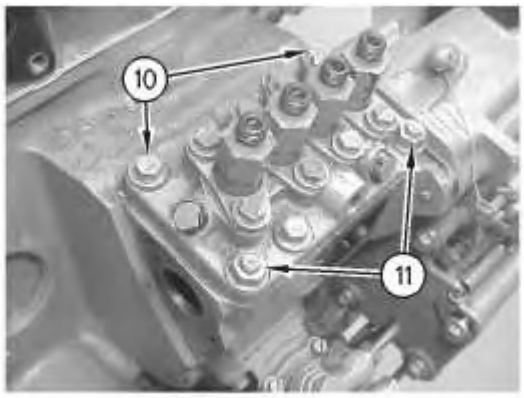

Illustration 2 g00720284

4. Install nuts (11) and bolts (10) that secure the fuel injection pump to the engine. Tighten nuts (11) and bolts (10) evenly to a torque of 22 N·m (16 lb ft).

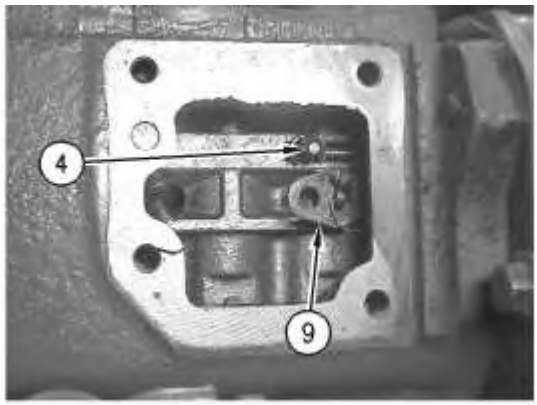

Illustration 3 g00720275

5. Install governor control linkage (9) onto pin (4) .

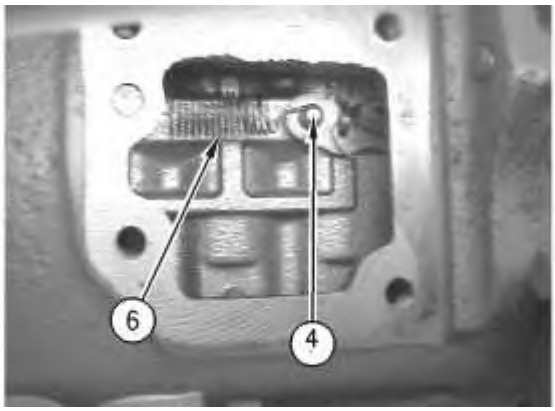

Illustration 4 g00720270

6. Install spring (6) in the groove in pin (4) .

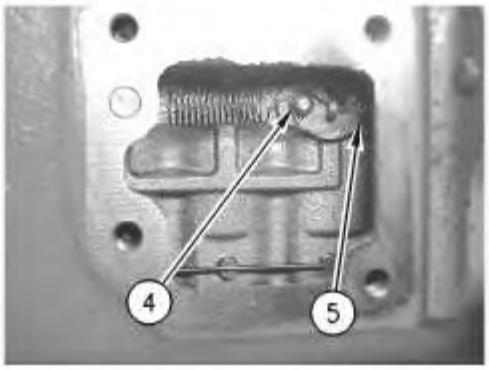

Illustration 5 g00720261

7. Install spring (5) into the groove in pin (4) .

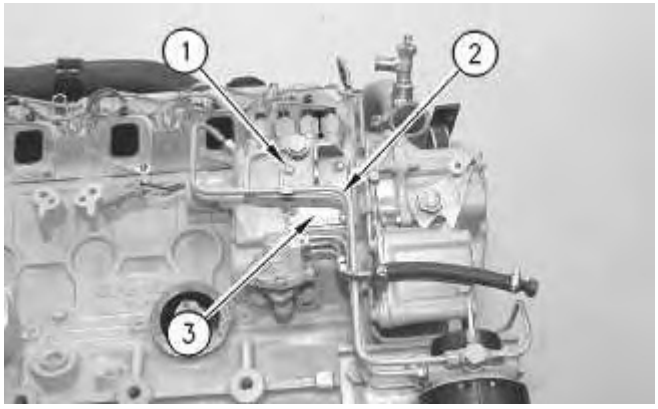

Illustration 6 g00599562

8. Clean the mating surface of plate (3) and the cylinder block.
9. Put plate (3) in position on the engine and install bolts (1).
10. Remove the caps and the plugs from fuel lines (2) and install the fuel lines on the engine.

End By:

a. Install the fuel shutoff solenoid. Refer to Disassembly and Assembly, "Fuel Shutoff Solenoid - Remove and Install".
b. Install the air inlet manifold. Refer to Disassembly and Assembly, " Inlet Manifold - Install".

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Media Number -SENR5013-08 **Publication Date -01/11/2008** **Date Updated -14/11/2008**

i01365306

Turbocharger - Remove

SMCS - 1052-011

Removal Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

NOTICE

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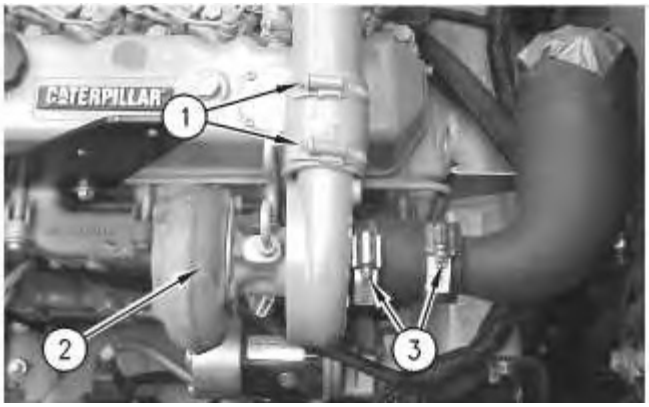

Illustration 1 g00596955

1. Loosen hose clamps (1) and (3). Slide the hoses away from turbocharger (2) .

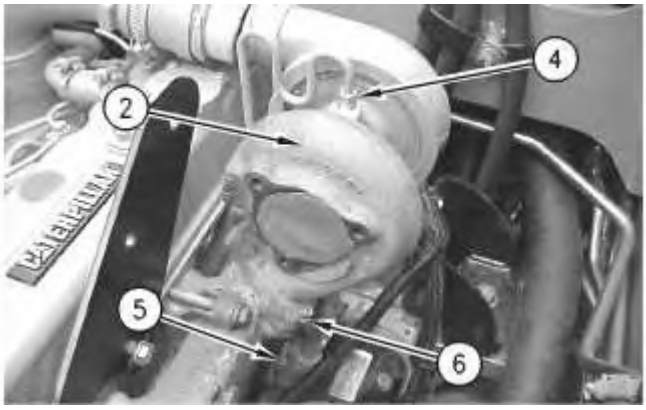

Illustration 2 g00597025

2. Remove oil line (4) from turbocharger (2). Immediately cap all openings or plug all openings in order to prevent contamination.
3. Loosen hose clamp (5) for the oil drain line.
4. Remove three nuts (6) that fasten turbocharger (2) to the exhaust manifold.

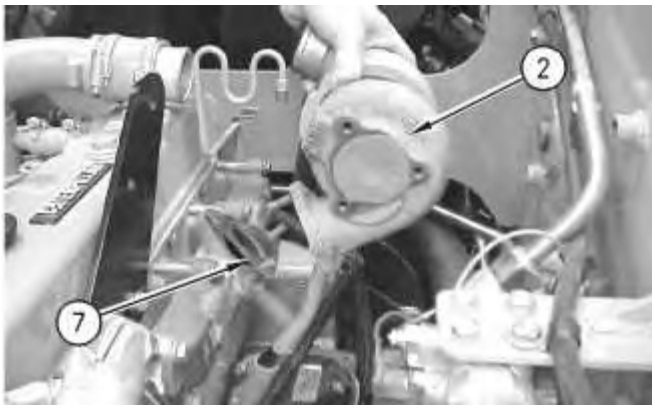

Illustration 3 g00597180

5. Remove turbocharger (2) and gasket (7) from the engine. Plug the hose for the oil drain line in order to prevent contamination. Inspect the condition of gasket (7). If gasket (7) is worn or damaged, replace the gasket.

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