

Product: SKID STEER LOADER

Model: 226B SKID STEER LOADER MJH

Configuration: 216B 226B 232B 242B Skid Steer Loader MJH00001-10574 (MACHINE) POWERED BY 3024C Engine

Disassembly and Assembly C1.1, C1.5 and C2.2 Engines for Caterpillar Built Machines

Media Number -KENR6948-06

Publication Date -01/06/2015

Date Updated -02/08/2018

i07360664

Fuel Injection Pump - Remove and Install

SMCS - 1251-010

Removal Procedure

Start By:

- a. Remove the fuel shutoff solenoid. Refer to Disassembly and Assembly, "Fuel Shutoff Solenoid - Remove and Install".

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.

Dispose of all fluids according to local regulations and mandates.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: The removal procedure is similar for the three cylinder and the four cylinder engines. The Illustrations show a four cylinder engine.

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

The C1.1 engine has a flexible fuel return hose.

For engines with a flexible fuel return hose, disconnect the fuel hose from the inlet connection of the fuel injection pump.

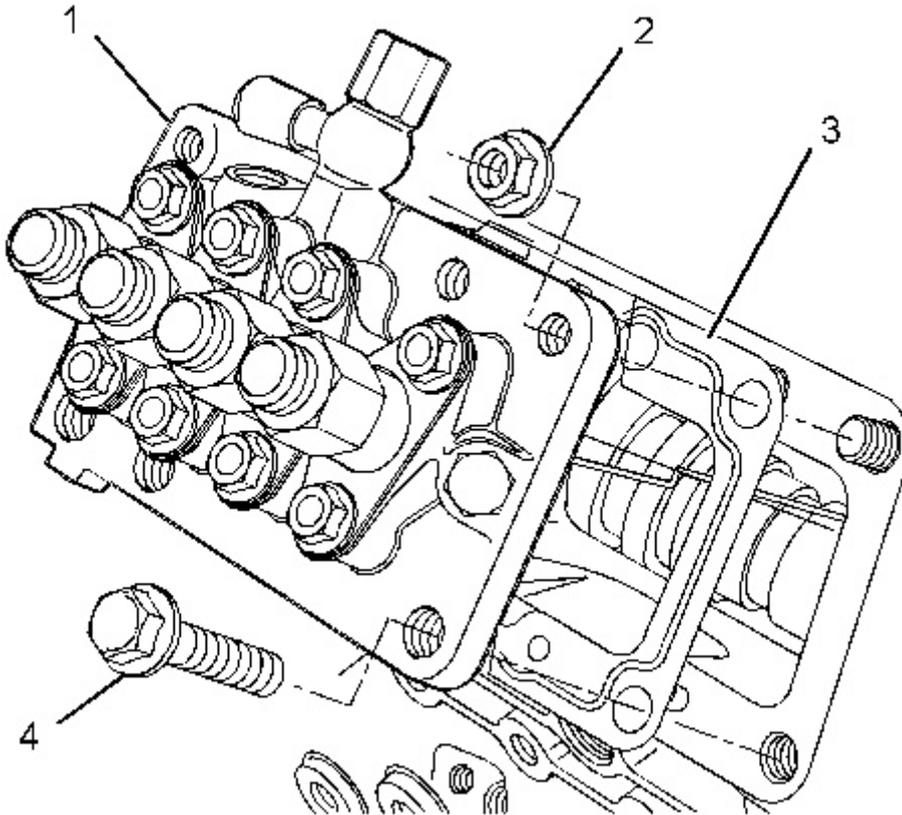


Illustration 1
Typical example

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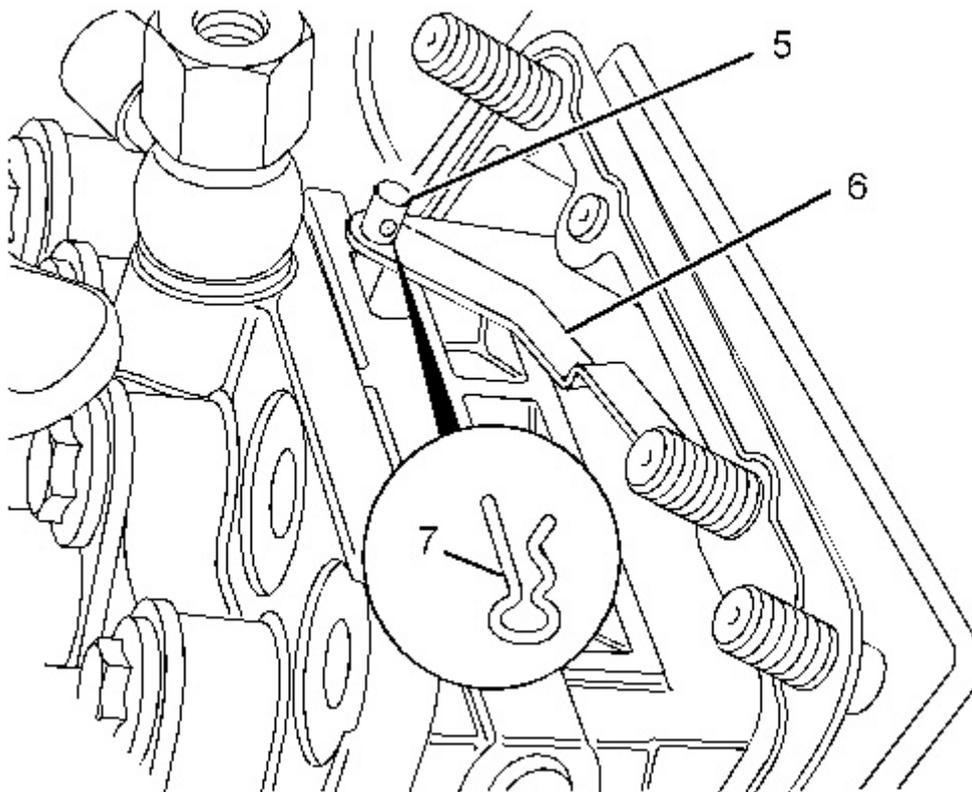


Illustration 2
Typical example

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2. Gradually loosen bolts (4) and nuts (2) that fasten the fuel injection pump to the cylinder block.
3. Carefully raise fuel injection pump (1) from the cylinder block and remove clip (7) that connects link (6) to fuel rack control (5).
4. Remove fuel injection pump (1) from the cylinder block.
5. Remove shims (3) from the mounting face of the cylinder block.

Note: Record the thickness of each shim and the number of shims for reassembly. The fuel injection timing is determined by the thickness of the shim pack that is between the fuel injection pump and the mounting face on the cylinder block. Refer to Systems Operation, Testing and Adjusting, "Fuel Injection Timing - Check" for more information.

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: The installation procedure is similar for the three cylinder and the four cylinder engines. The Illustrations show a four cylinder engine.

1. Clean the mating surfaces of the cylinder block and the fuel injection pump.
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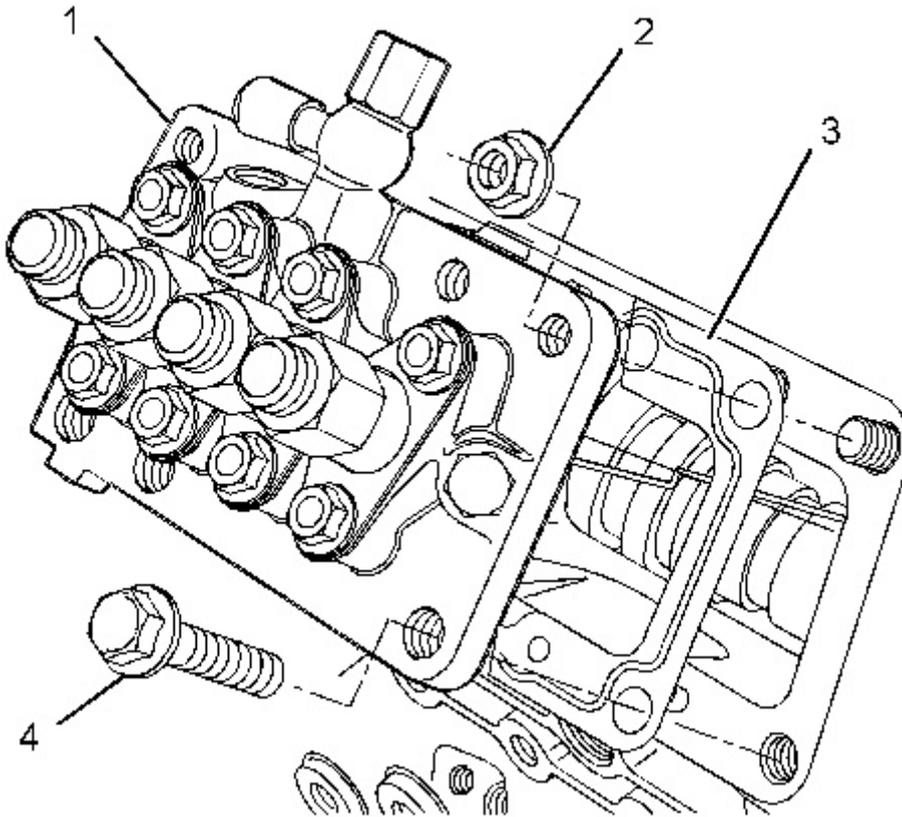


Illustration 3

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Typical example

2. Install the correct thickness and the correct number of shims (3) on the mounting face of the cylinder block. Refer to Systems Operation, Testing and Adjusting, "Fuel Injection Timing - Check" for more information.
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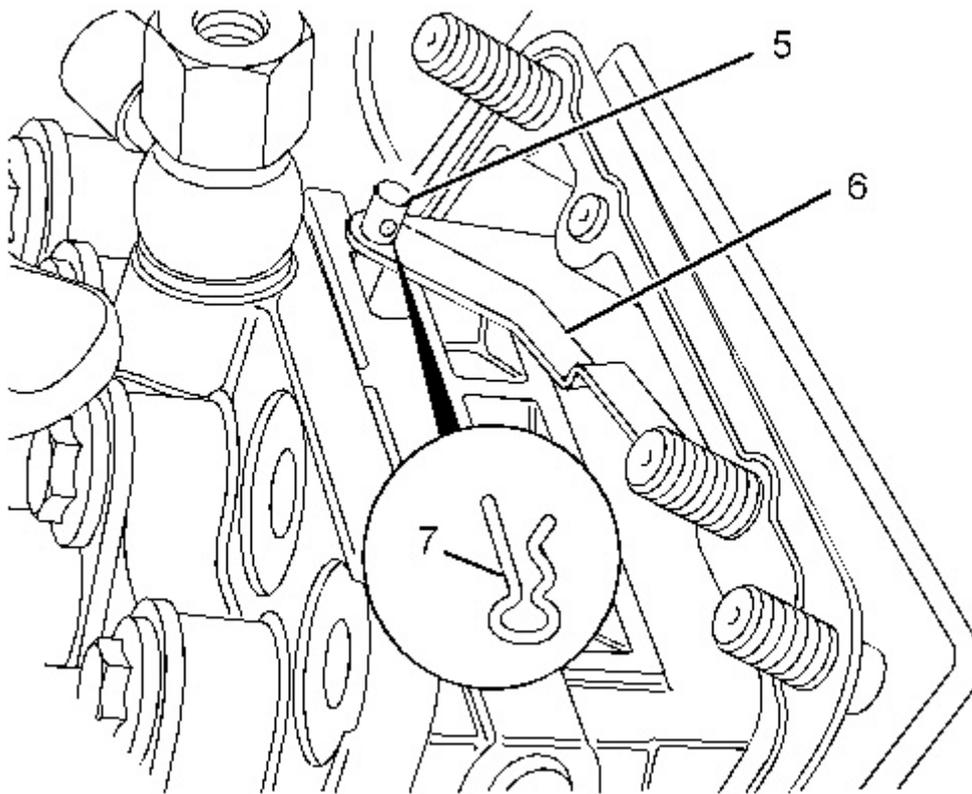


Illustration 4
Typical example

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3. Position fuel injection pump (1) close to the mounting face of the cylinder block, and connect link (6) and fuel rack control (5) with clip (7).
4. Align fuel injection pump (1) with the studs on the cylinder block. Install the fuel injection pump to the cylinder block.
5. Install bolts (4) and nuts (2). Ensure that the tube clip for the engine oil line is secured by the appropriate fastener.

For the C1.1 engine, evenly tighten bolts (4) and nuts (2) to a torque of 6 N·m (53 lb in).

For C1.5 and C2.2 engines, evenly tighten bolts (4) and nuts (2) to a torque of 15 N·m (133 lb in).

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

The C1.1 engine has a flexible fuel return hose.

For engines with a flexible fuel return hose, connect the fuel hose to the inlet connection of the fuel injection pump.

End By:

- a. Install the fuel shutoff solenoid. Refer to Disassembly and Assembly, "Fuel Shutoff Solenoid - Remove and Install".
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Media Number -KENR6948-06

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i06719926

Fuel Injector - Remove and Install

SMCS - 1290-010

Removal Procedure

Start By:

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

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.

Dispose of all fluids according to local regulations and mandates.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

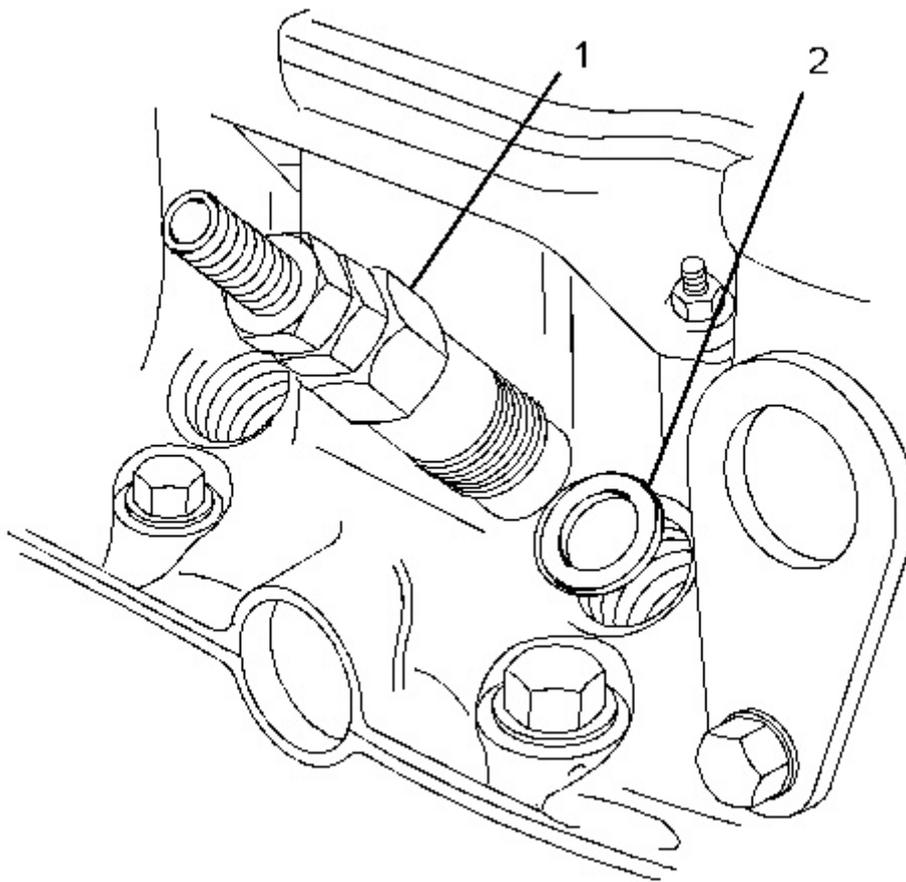


Illustration 1
Typical example

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1. Use a deep socket to remove fuel injector (1) from the cylinder head.
2. Remove seat washer (2) from the cylinder head.
3. Cap all openings or plug all openings immediately.

Installation Procedure

Table 1

| Required Tools | | | |
|----------------|-------------|------------------|-----|
| Tool | Part Number | Part Description | Qty |
| A | 239-3312 | Sealant | 1 |

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

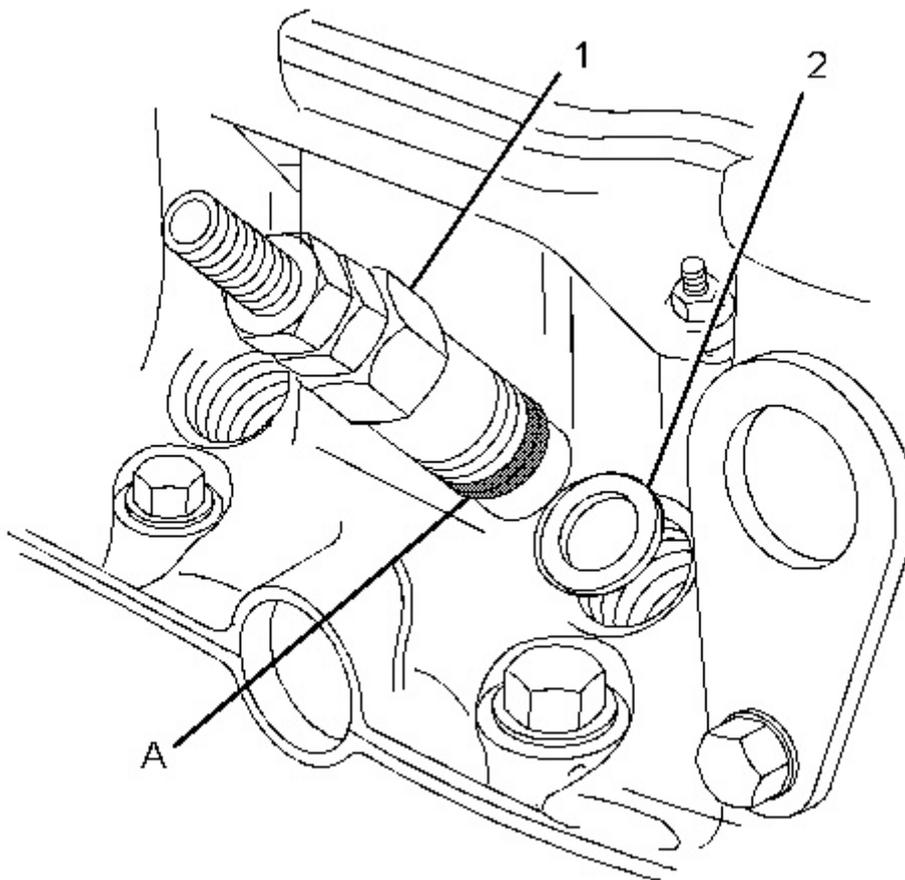


Illustration 2

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Typical example

1. Clean the bore for the fuel injector in the cylinder head. Ensure that no debris enters the cylinder. Clean the threads on the body of the fuel injector.
2. Install new seat washer (2) into the bore for the fuel injector in the cylinder head.
3. Apply a bead of Tooling (A) to the first two threads of the fuel injector that engage into the cylinder head. The bead should have a diameter of 2 mm (0.08 inch) and a length of 6 mm (0.25 inch).

Note: Ensure that Tooling (A) does not cover the body of the fuel injector below the threads.

4. Install fuel injector (1) into the cylinder head. Use a deep socket to tighten the fuel injector to a torque of 64 N·m (47 lb ft).

End By:

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