

Product: SKID STEER LOADER

Model: 272D2 XHP SKID STEER LOADER MD2

Configuration: 272D2 & 272D2 XHP Skid Steer Loader MD200001-UP (MACHINE) POWERED BY C3.8 Engine

Disassembly and Assembly C3.8 Engines for Caterpillar Built Machines

Media Number -UENR0129-08

Publication Date -01/09/2015

Date Updated -19/05/2016

i06617576

Engine Oil Cooler - Remove and Install

SMCS - 1378-010

Removal Procedure



Illustration 1

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1. Remove oil filter (2). Refer to Operation and Maintenance Manual, "Engine Oil and Filter - Change" for the correct draining and filling procedure.
 2. Disconnect hose (1).
-

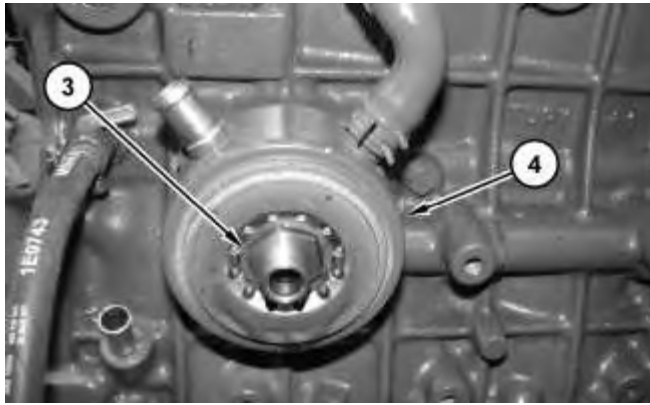


Illustration 2

g02858919

3. Remove joint screw (3). Remove oil cooler (4).



Illustration 3

g02858921

4. Remove seal (5) from oil cooler (4).

Installation Procedure

1. Install oil cooler (4) in the reverse order of removal.
 - a. Tighten joint screw (3) to a torque of $42 \text{ N}\cdot\text{m} \pm 2 \text{ N}\cdot\text{m}$ ($31 \pm 2 \text{ lb ft}$).
 - b. Fill the engine oil pan to the correct level. Refer to Operation and Maintenance Manual, "Engine Oil and Filter - Change" for the correct draining and filling procedure.



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i04664109

Engine Oil Relief Valve - Remove and Install

SMCS - 1315-010

Removal Procedure

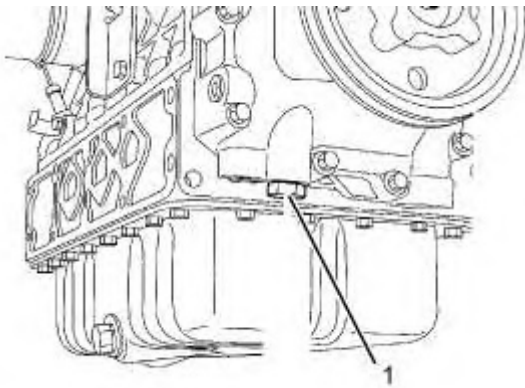


Illustration 1

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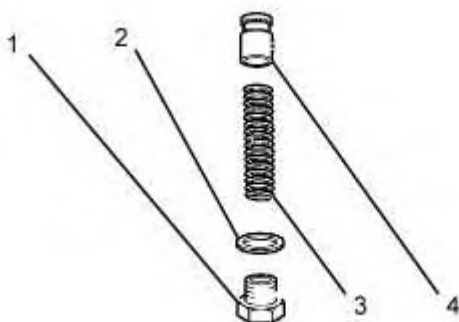


Illustration 2

g02867660



WARNING

Personal injury can result from being struck by parts propelled by a released spring force.

Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

1. Remove plug (1) and seal (2)
2. Remove spring (3) and relief valve (4)

Installation Procedure

1. Install relief valve (4) in the reverse order of removal
 - a. Tighten plug (1) to a torque of $73.5 \pm 4.5 \text{ N}\cdot\text{m}$ ($54.2 \pm 3.3 \text{ lb ft}$).
-
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-

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i06617636

Engine Oil Pump - Remove and Install

SMCS - 1304-010; 1315-010

Removal Procedure

Start By:

- a. Remove the front housing.

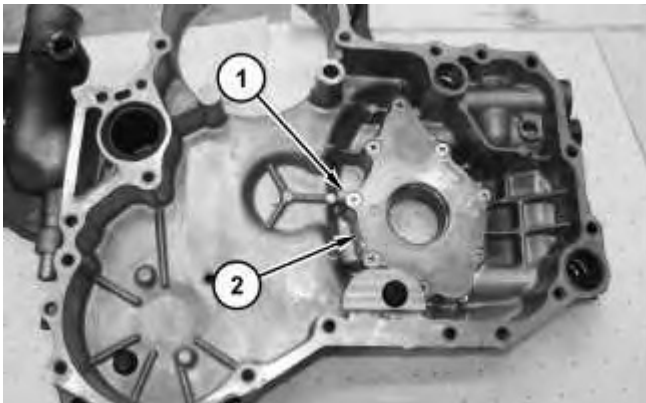


Illustration 1

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1. Remove screws (1). Remove oil pump cover (2).
-

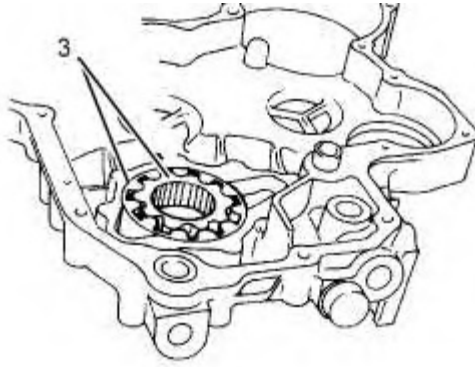


Illustration 2

g02860156

2. Remove oil pump rotors (3).

Installation Procedure

1. Install the engine oil pump in the reverse order of removal.
 - a. Tighten screws (1) to a torque of 8.6 ± 0.7 N·m (76.1 ± 6.2 lb in).

End By:

- a. Install the front housing.
-
-
-

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i06617810

Water Pump - Remove and Install

SMCS - 1361-011; 1361-012

Removal Procedure

1. Refer to Operation and Maintenance Manual, "Radiator Tilting".



WARNING

At operating temperature, the engine coolant is hot and under pressure.

Steam can cause personal injury.

Check the coolant level only after the engine has been stopped and the fill cap is cool enough to touch with your bare hand.

Remove the fill cap slowly to relieve pressure.

Cooling system conditioner contains alkali. Avoid contact with the skin and eyes to prevent personal injury.

-
2. Refer to Operation and Maintenance Manual, "Cooling System Coolant (ELC) - Change" for the correct draining and filling procedure.
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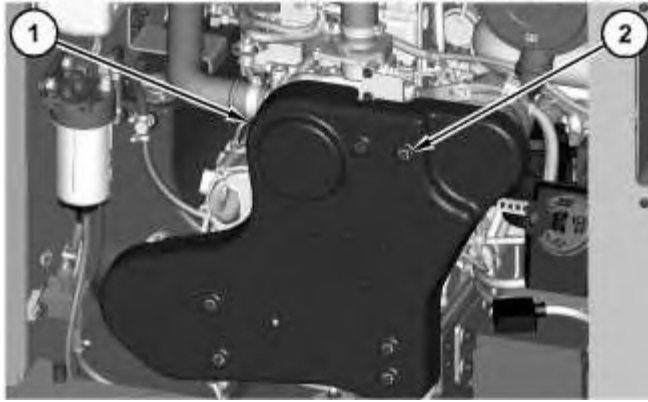


Illustration 1
SSL, MTL, and CTL

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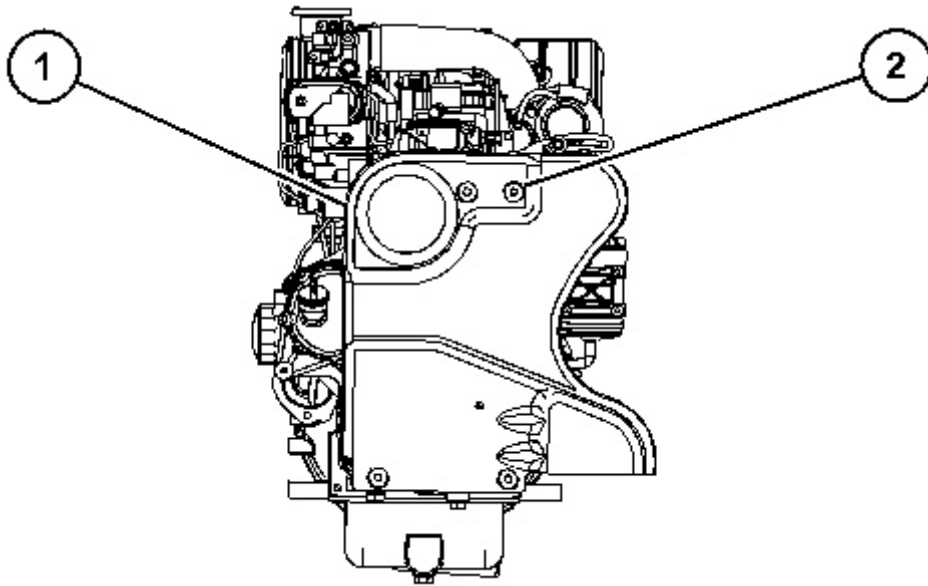


Illustration 2
CWL

g06048291

3. For the SSL, MTL, and CTL models, loosen quarter turn fasteners (2). For the CWL models loosen the four bolts (2). Remove guard (1).



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