



Service Repair Manual

Models

299D XHP COMPACT TRACK
LOADER

Product: COMPACT TRACK LOADER

Model: 299D XHP COMPACT TRACK LOADER JST

Configuration: 299D XHP Compact Track Loader JST00001-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

i06617810

Water Pump - Remove and Install

SMCS - 1361-011; 1361-012

Removal Procedure

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



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.

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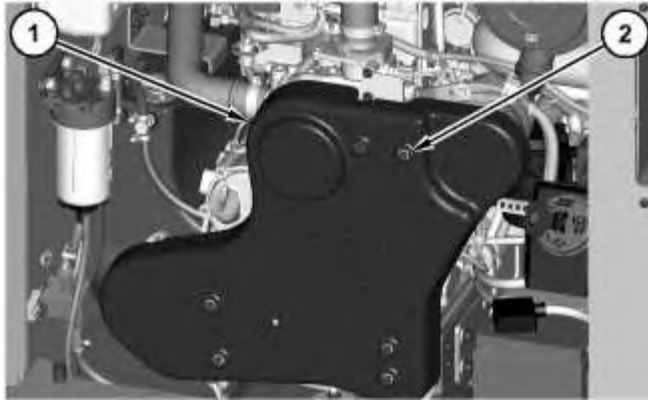


Illustration 1
SSL, MTL, and CTL

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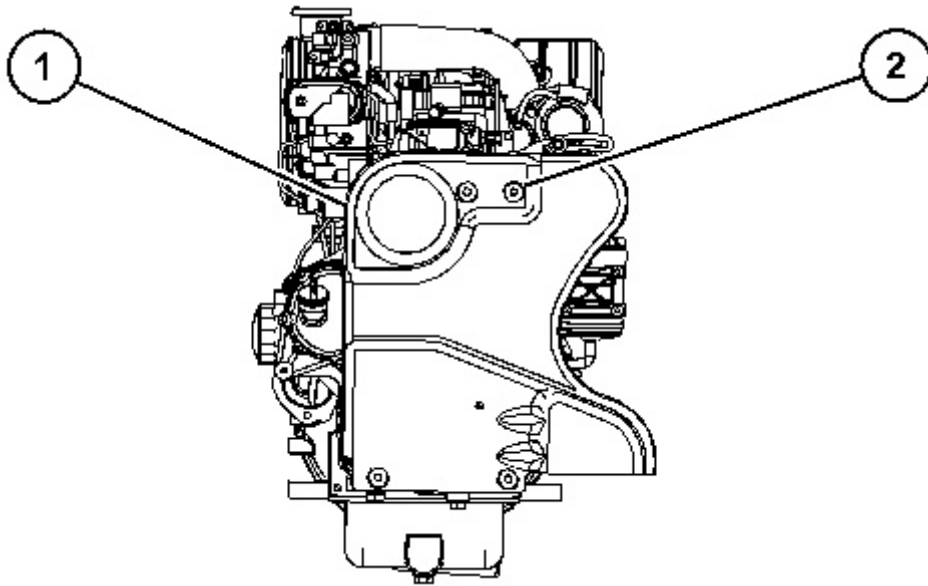


Illustration 2
CWL

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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).



4. Loosen nut (3) and bolt (4).



Illustration 4

5. Remove belt (5). Remove bolts (6) and pulley (7).



Illustration 5

6. Remove bolts (8), water pump (9) and the gasket.

Installation Procedure

1. Install water pump (9) in the reverse order of removal.
 - a. Refer to Operation and Maintenance Manual, "Belt - Inspect, Adjust, Replace" for proper belt tensioning procedure.

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Water Temperature Regulator - Remove and Install

SMCS - 1355-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Three Bond 1217H	-



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

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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.

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1. Refer to Operation and Maintenance Manual, "Cooling System Coolant (ELC) - Change".
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