



Service Repair Manual

Model

438C BACKHOE LOADER

Product: BACKHOE LOADER

Model: 438C BACKHOE LOADER 1TR

Configuration: 438C Backhoe Loader Side Shift, Parallel Lift 1TR01284-01549 (MACHINE) POWERED BY 3054 Engine

Disassembly and Assembly 3054 Engine for Caterpillar Built Machines

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Water Temperature Regulator - Remove and Install

SMCS - 1355-010

Removal Procedure

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.

1. Drain the coolant from the cooling system into a suitable container for storage or disposal.

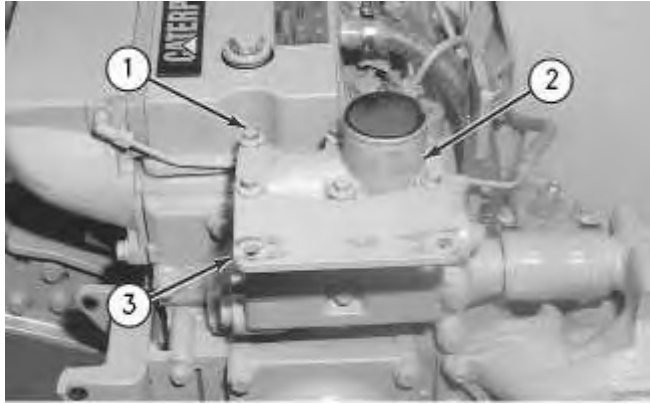


Illustration 1

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Typical example of Type 1 and 9RM engines

Note: For a complete description of Type 1 and Type 2 engines, refer to the Disassembly and Assembly, "Engine Design" topic.

2. Remove six bolts (1) that hold cover (2) and bracket (3) in position.

Note: Type 2 engines and 7BJ engines have four mounting bolts (1) that hold cover (2) in position.

3. Remove bracket (3) and cover (2) from the water temperature regulator housing.

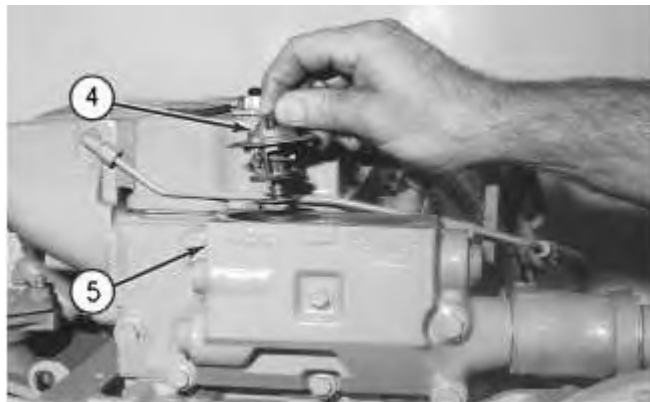


Illustration 2

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Typical example of Type 1 and 9RM engines

4. Remove water temperature regulator (4) and the gasket from water temperature regulator housing (5) .

Note: Type 1 and 9RM engines may have two water temperature regulators for some engine ratings. Type 2 and 7BJ engines will have one water temperature regulator for all engine ratings.

Note: Refer to the Testing and Adjusting Module for the correct procedure on testing the water temperature regulator.

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Inspect the condition of the gasket. Replace the gasket, if necessary.

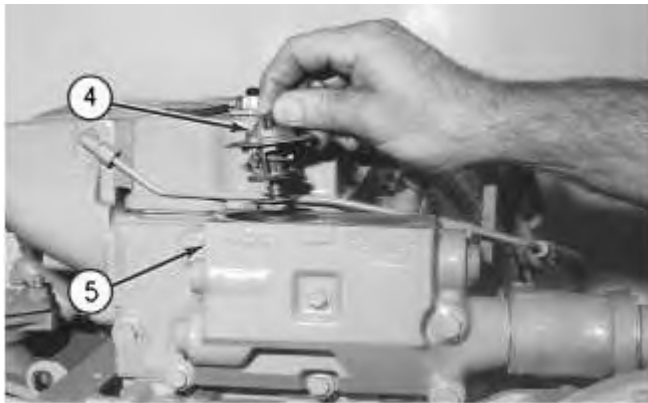


Illustration 3

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Typical example of Type 1 and 9RM engines

Note: For a complete description of Type 1 and Type 2 engines, refer to the Disassembly and Assembly, "Engine Design" topic.

Note: Type 1 and 9RM engines may have two water temperature regulators for some engine ratings. Type 2 and 7BJ engines will have one water temperature regulator for all engine ratings.

2. Install water temperature regulator (4) and the gasket into housing (5) .
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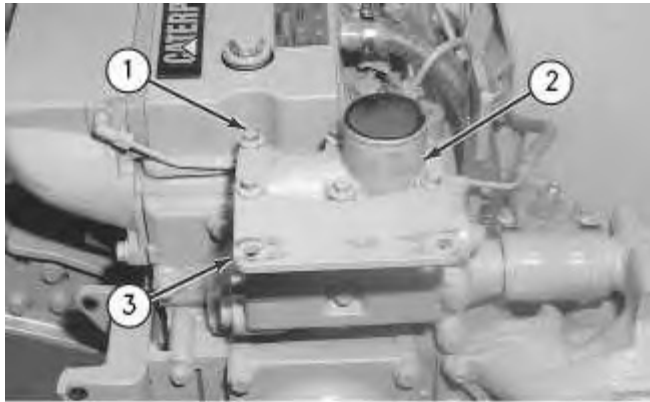


Illustration 4

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Typical example of Type 1 and 9RM engines

3. Install bracket (3) and cover (2) on the water temperature regulator housing.
4. Install six bolts (1) that fasten cover (2) and bracket (3) to the water temperature regulator housing.

Note: Type 2 engines and 7BJ engines have four mounting bolts (1) for the cover.

5. Install the upper radiator hose and fill the radiator to the correct level with coolant.

Note: Refer to the Operation and Maintenance Manual for the correct procedure.

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