



Service Repair Manual

Models

938H Wheel Loader

Product: WHEEL LOADER

Model: 938H WHEEL LOADER LKM

Configuration: 938H Wheel Loader LKM00001-UP (MACHINE) POWERED BY C6.6 Engine

Disassembly and Assembly C6.6 Engines for Caterpillar Built Machines

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Valve Mechanism Cover Base - Remove and Install - Composite Valve Mechanism Cover Base

SMCS - 1120-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1860	Retaining Ring Pliers	1

Start By:

- Remove the valve mechanism cover. Refer to Disassembly and Assembly, "Valve Mechanism Cover - Remove and Install" for the correct procedure.
- Remove the fuel injection lines. Refer to Disassembly and Assembly, "Fuel Injection Lines - Remove" for the correct procedure.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

NOTICE

Use a deep socket in order to remove the electrical connections from the electronic unit injectors. Use of incorrect tooling will result in damage to the electronic unit injectors.

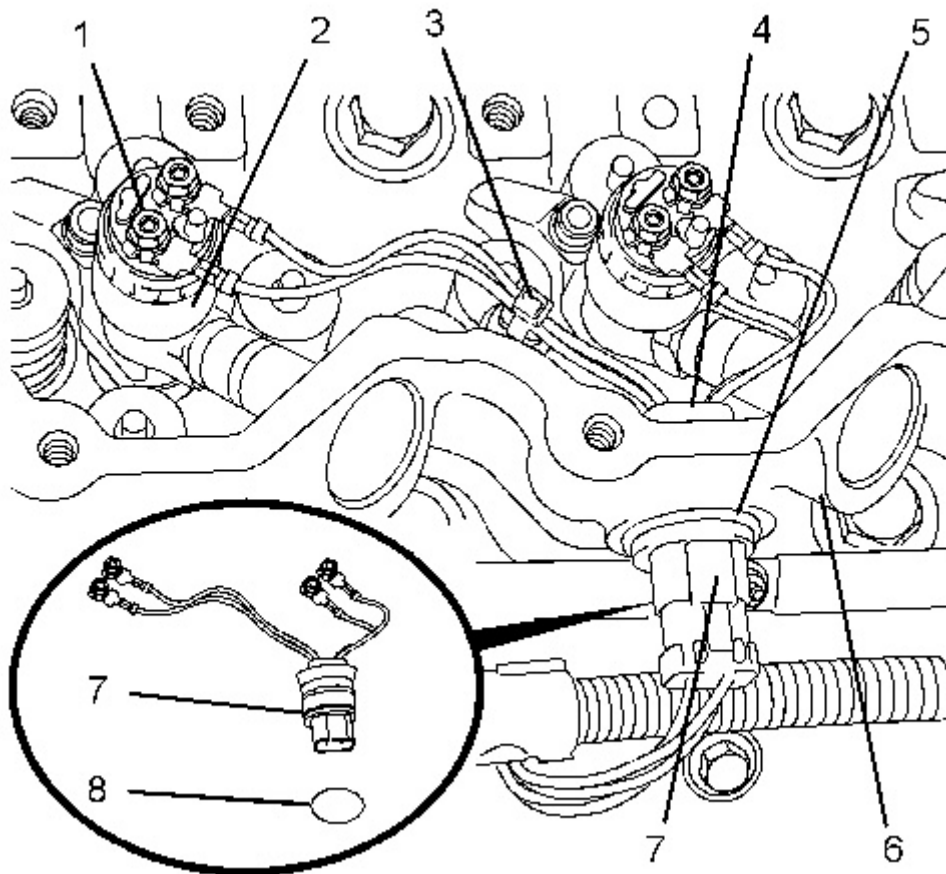


Illustration 1

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Typical example

1. Make a temporary identification mark on connections (1).
2. Use a deep socket to remove connections (1) from electronic unit injectors (2).
3. Disconnect plugs (7) from harness assemblies (4).
4. If necessary, follow Step 4.a through Step 4.e in order to remove harness assemblies (4) from valve mechanism cover base (6).
 - a. Cut cable strap (3).
 - b. Use Tooling (A) to remove circlip (5).
 - c. From the outside of valve mechanism cover base (6), push harness assembly (4) inward. Withdraw the harness assembly from valve mechanism cover base (6).
 - d. Remove O-ring seal (8) from harness assembly (4).

e. Repeat Step 4.a through Step 4.d in order to remove the remaining harness assembly.

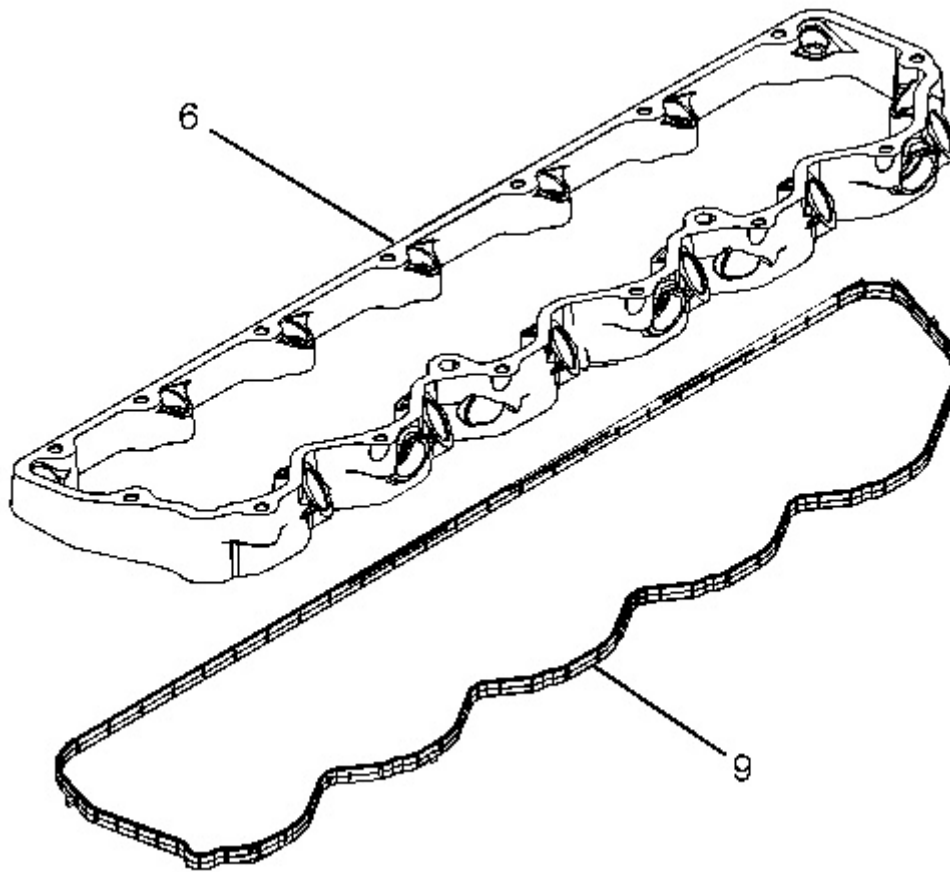


Illustration 2
Typical example

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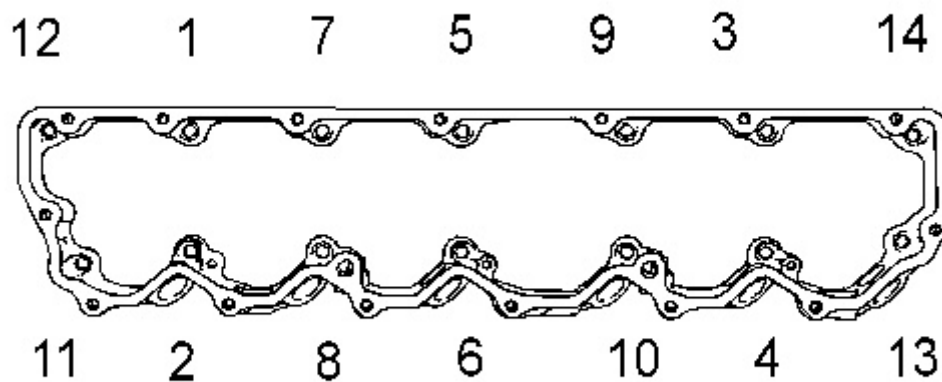


Illustration 3
Tightening sequence for the valve mechanism cover base

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5. Gradually loosen the captive bolts that secure the valve mechanism cover base in **reverse numerical order**. Refer to Illustration 3. Gradually loosen the captive bolts will help prevent distortion of the valve mechanism cover base.

Note: The captive bolts cannot be removed from the valve mechanism cover base.

6. Remove valve mechanism cover base (6) from the cylinder head.
7. Remove seal (9) from valve mechanism cover base (6).

Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-1860	Retaining Ring Pliers	1
B	1U-6396	O-Ring Assembly Compound	1
C	247-5377	Torque Wrench	1
D	321-5184	Alignment Pins	2

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

NOTICE

Use a deep socket in order to remove the electrical connections from the electronic unit injectors. Use of incorrect tooling will result in damage to the electronic unit injectors.

1. Clean the valve mechanism cover base. Ensure that the mating surfaces are free from damage.
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