



Service Repair Manual

Models

314D LCR Excavator

Product: EXCAVATOR

Model: 314D LCR EXCAVATOR TXN

Configuration: 314D LCR Excavator TXN00001-UP (MACHINE) POWERED BY C4.2 Engine

Disassembly and Assembly C4.2 Engine for Caterpillar Built Machines

Media Number -KENR8105-04

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Inlet Manifold - Remove and Install

SMCS - 1058-010

Removal Procedure

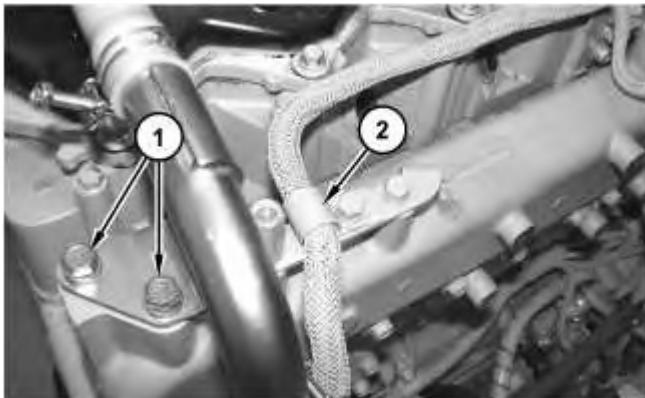
Start By:

- A. Remove the fuel manifold. Refer to Disassembly and Assembly, "Fuel Manifold (Rail) - Remove".
- B. Remove the air inlet heater. Refer to Disassembly and Assembly, "Air Inlet Heater - Remove and Install".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.



1. Remove bolts (1) and remove clip (2) .

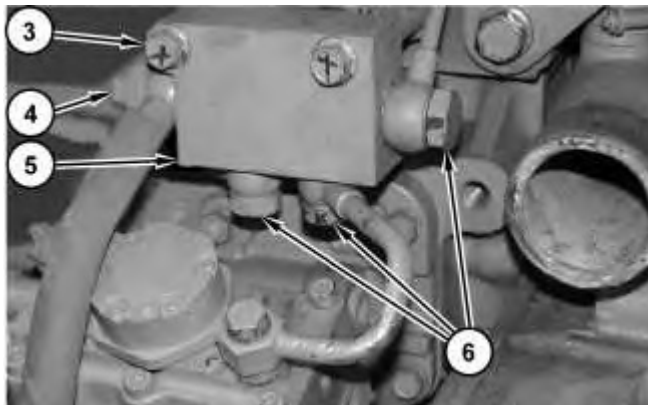


Illustration 2

2. Remove bolt (4) and remove the washers. Discard the washers.
3. Remove bolts (6) and remove the washers. Discard the washers.
4. Remove bolts (3) and remove manifold (5) .

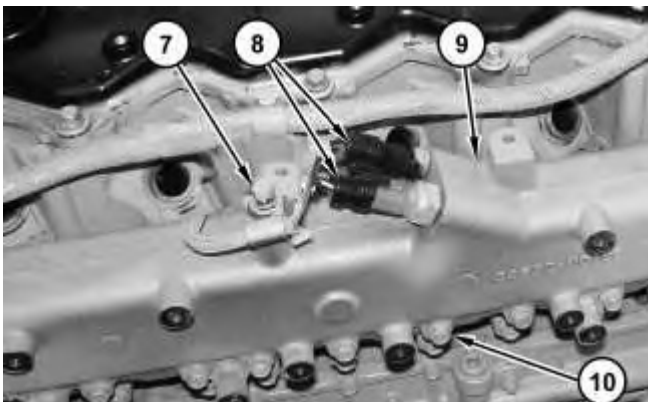


Illustration 3

5. Remove clips (7) .
6. Disconnect harness assemblies (8) .
7. Remove bolts (10) and remove inlet manifold (9) and the gasket.

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: Check the gaskets for wear or for damage. Replace the components, if necessary.

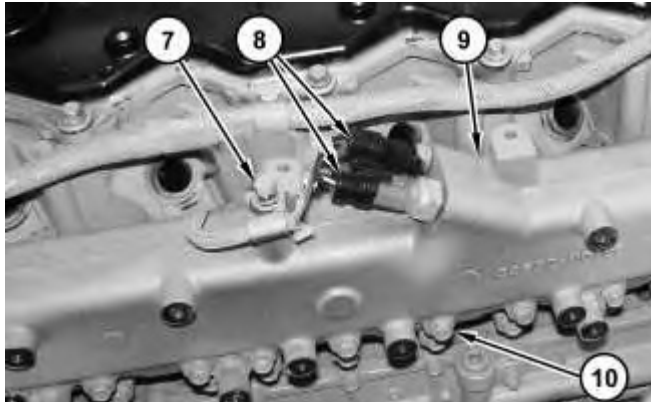


Illustration 4

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1. Position the new inlet manifold gasket. Position inlet manifold (9) and install bolts (10). Tighten bolts (10) to a torque of $18 \pm 2 \text{ N}\cdot\text{m}$ ($13 \pm 1 \text{ lb ft}$).
2. Connect harness assemblies (8) and install clips (7) .

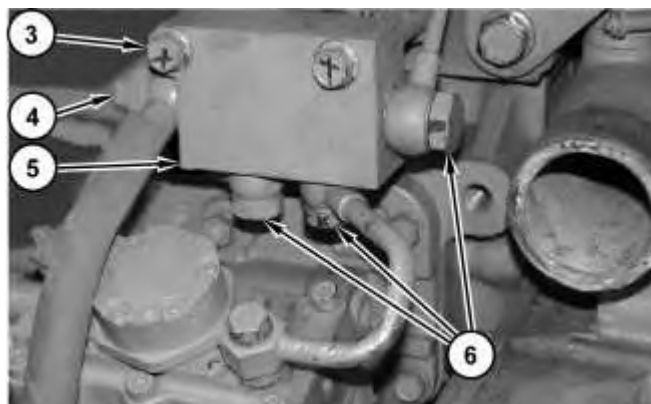


Illustration 5

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3. Position manifold (5) and install bolts (3) .
4. Install new washers and install bolt (4). Tighten bolt (4) to a torque of $34 \pm 4 \text{ N}\cdot\text{m}$ ($25 \pm 3 \text{ lb ft}$).

5. Install new washers and install bolts (6). Tighten bolts (6) to a torque of 34 ± 4 N·m (25 ± 3 lb ft).

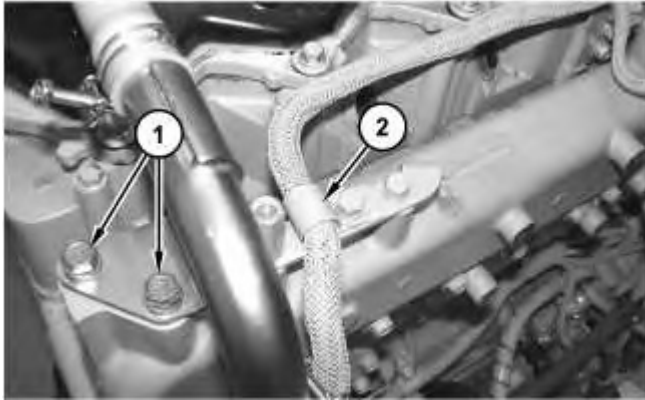


Illustration 6

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6. Install clip (2) and install bolts (1) .

End By:

- a. Install the air inlet heater. Refer to Disassembly and Assembly, "Air Inlet Heater - Remove and Install"
- b. Install the fuel manifold. Refer to Disassembly and Assembly, "Fuel Manifold (Rail) - Install".

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