



# Service Repair Manual

## **Models**

320D and 320D L Excavator

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Product: EXCAVATOR

Model: 320D EXCAVATOR MCH

Configuration: 320D & 320D L Excavators MCH00001-UP (MACHINE) POWERED BY C6.4 Engine

## Disassembly and Assembly C6.4 Engine for Caterpillar Built Machines

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i02879378

## Inlet Manifold - Remove and Install

SMCS - 1058-010

### Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	1

#### Start By:

- A. Remove the fuel manifold. Refer to Disassembly and Assembly, "Fuel Manifold (Rail) - Remove".

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### NOTICE

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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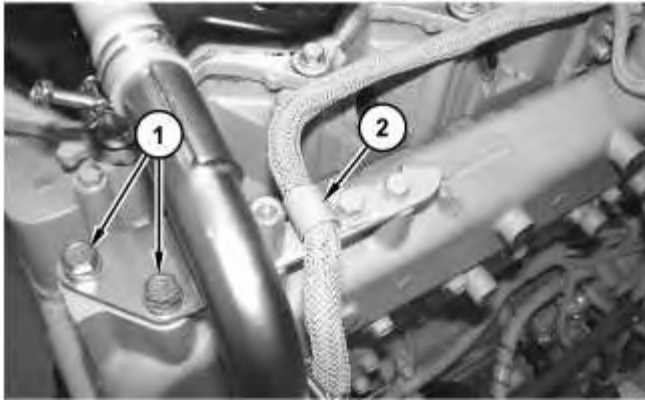


Illustration 1

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

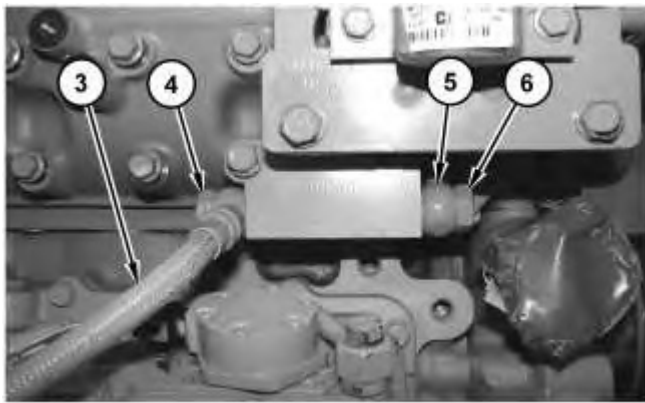


Illustration 2

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2. Remove bolt (4) . Disconnect hose assembly (3) and the washers. Discard the washers.
3. Remove bolt (6) . Disconnect hose assembly (5) and the washers. Discard the washers.

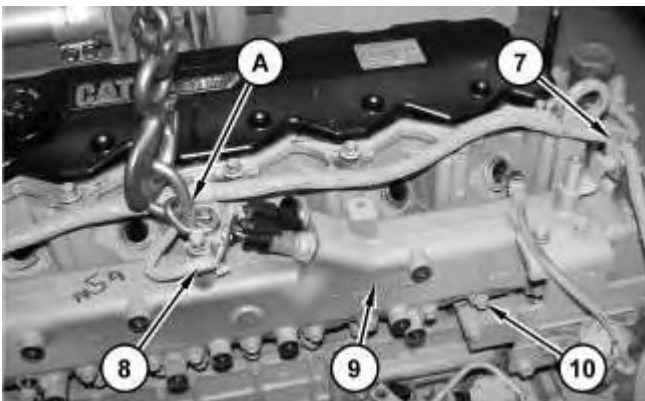


Illustration 3

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4. Attach Tooling (A) and a suitable lifting device to inlet manifold (9) . The weight of inlet manifold (9) is approximately 29 kg (65 lb).
5. Remove clip (7) and clip (8) .
6. Remove bolts (10) . Use Tooling (A) and the suitable lifting device in order to remove inlet manifold (9) and the gasket.
7. If necessary, remove the air inlet heater. Refer to Disassembly and Assembly, "Air Inlet Heater - Remove".

## Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	1

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### NOTICE

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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

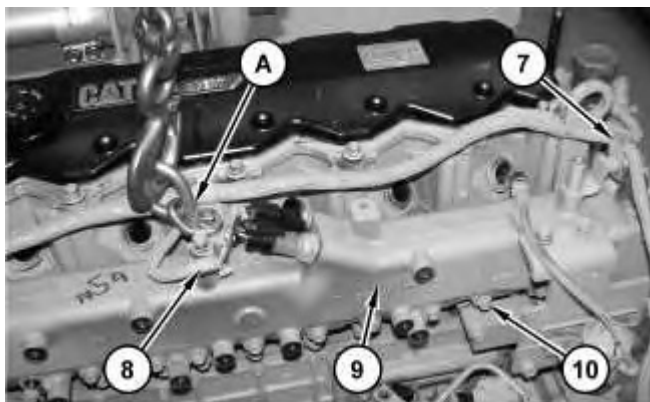


Illustration 4

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1. If necessary, install the air inlet heater. Refer to Disassembly and Assembly, "Air Inlet Heater - Install".

2. Attach Tooling (A) and a suitable lifting device to inlet manifold (9) . The weight of inlet manifold (9) is approximately 29 kg (65 lb). Position the gasket. Use Tooling (A) and the suitable lifting device in order to position inlet manifold (9) to the engine. Install bolts (10) . Tighten bolts (10) to a torque of  $18 \pm 2$  N·m ( $13 \pm 1$  lb ft).
3. Install clips (8) and (7) .

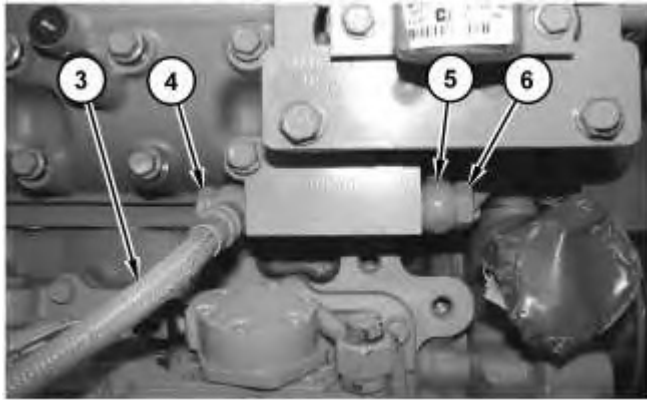


Illustration 5

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4. Install new washers and connect hose assembly (5) . Install bolt (6) . Tighten bolt (6) to a torque of  $34 \pm 4$  N·m ( $25 \pm 3$  lb ft).
5. Install new washers and connect hose assembly (3) . Install bolt (4) . Tighten bolt (4) to a torque of  $34 \pm 4$  N·m ( $25 \pm 3$  lb ft).

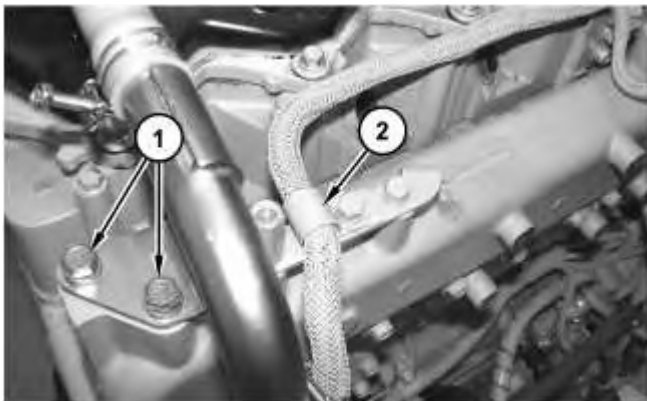


Illustration 6

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

**End By:** Install the fuel manifold. Refer to Disassembly and Assembly, "Fuel Manifold (Rail) - Install".

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