

Disassembly and Assembly

3054 Engine for Caterpillar Built Machines

Media Number -SEN6241-13

Publication Date -01/08/2008

Date Updated -04/08/2008

i02870254

Inlet Manifold - Install - Type 1 Engines and 9RM Engines

SMCS - 1058-012

Installation Procedure

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

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Inspect the gaskets for wear or damage. If the gaskets are worn or damaged, use new parts for replacement.

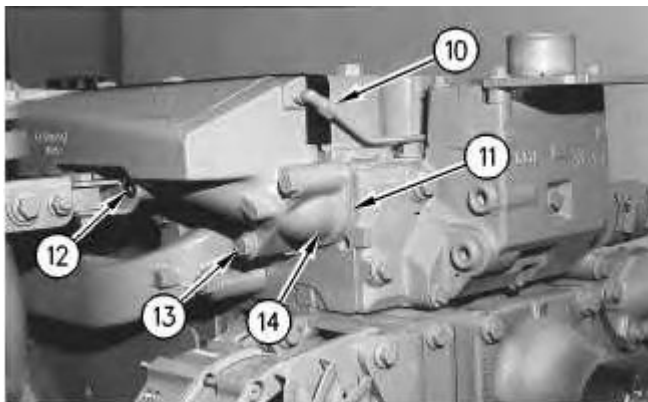


Illustration 1

g00545514

Typical example

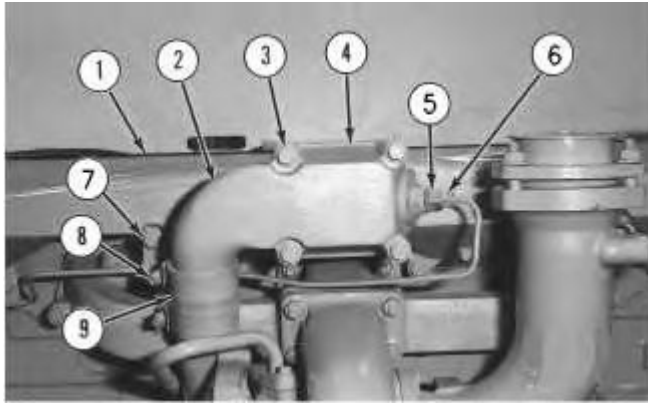


Illustration 2

g00545513

Typical example

2. Install seal (1) on the engine.
 3. Position gaskets (11) and air inlet manifold (14) on the engine.
Note: Ensure that the front gaskets and the rear gaskets are installed with the notch at the top left side. The center gasket can be installed in either direction.
 4. Install bolts (13) .
 5. Position the turbocharger support on air inlet manifold (14) and install bolts (12) .
 6. Connect boost pressure hose (10) .
 7. Install gasket (4) and elbow (2) with four bolts (3) .
 8. Slide hose (9) in position and tighten hose clamps (8) .
 9. Place the bracket for fuel line (6) in position and install two bolts (7) .
 10. Connect fuel line (6) to the air inlet heater.
 11. Connect electrical connector (5) for the air inlet heater.
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i02870255

Inlet Manifold - Install - Type 2 Engines and 7BJ Engines

SMCS - 1058-012

Installation Procedure

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

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Inspect the gaskets for wear or damage. If the gaskets are worn or damaged, use new parts for replacement.

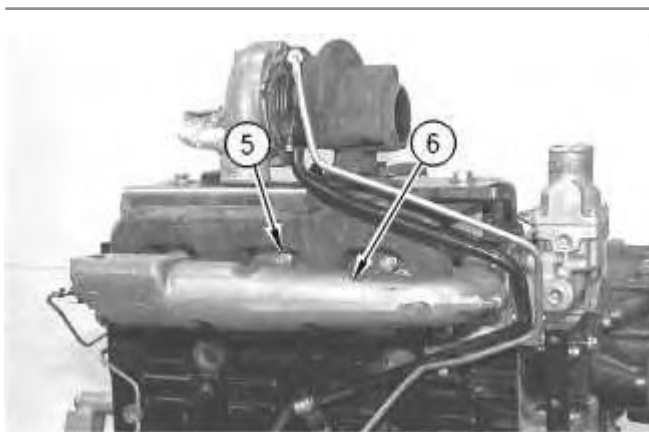


Illustration 1

g00558245

Typical example

2. Install the gasket and air inlet manifold (6) with bolts (5) . Tighten bolts (5) to a torque of 33 N·m (24 lb ft).

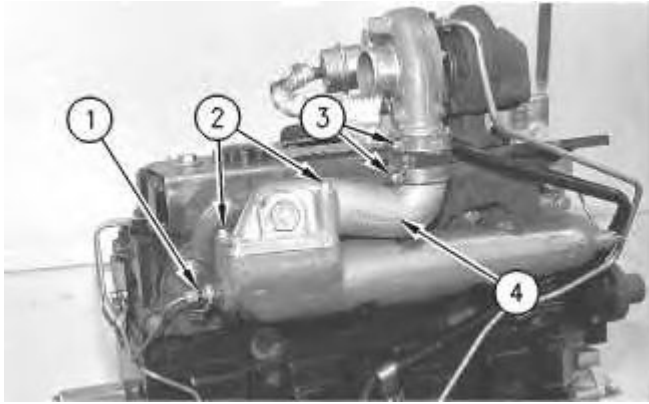


Illustration 2

g00557838

Typical example

3. Put the gasket and elbow (4) in position on the air inlet manifold.
 4. Install four bolts (2) .
 5. Slide the hose into position and tighten hose clamps (3) .
 6. Connect tube (1) to the air inlet heater.
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