



Service Manual

1204F Diesel Engine Disassembly and Assembly

i03936932

Flexible Exhaust Pipe

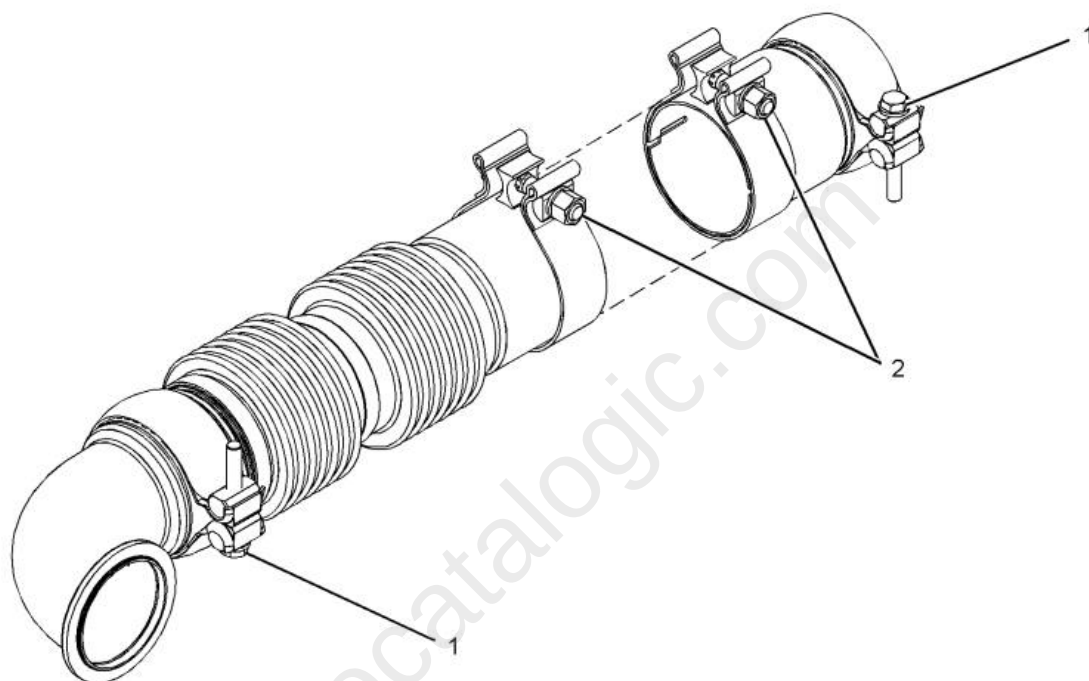


Illustration 47

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Typical example

(1) Tighten the clamp to the following torque.
.....35 N·m (26 lb ft)

(2) Tighten the clamp to the following torque.
.....55 N·m (41 lb ft)

Refer to Disassembly and Assembly for the correct procedure to install the flexible exhaust pipe.

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Camshaft

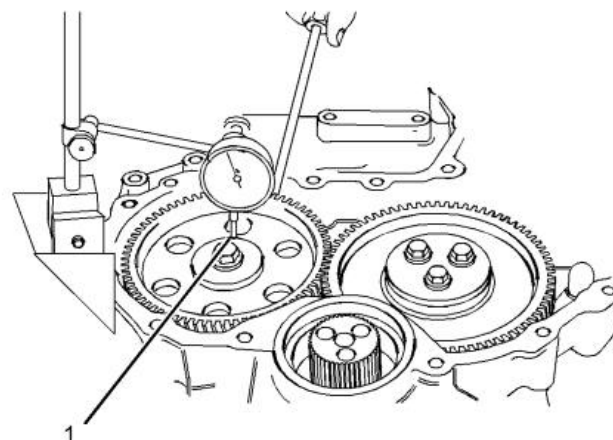


Illustration 48

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Checking the end play of the camshaft

Sensor Locations for the Clean Emissions Module

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(Table 23, contd)

Troubleshooting Test Steps	Values	Results
10. NRS Cooler A. Switch off the engine and allow the engine to cool to below normal working temperature. Remove the pressure cap for the coolant system. Perform a leak test on the cooling system and the NRS cooler. Refer to Systems Operation, Testing, and Adjusting, "Cooling System - Test". Refer to the subsection "Testing The Radiator And Cooling System For Leaks" .	NRS cooler	Result: The leak test fails. Repair: Check the NRS cooler. Perform a leak test on the NRS cooler. Refer to Systems Operation, Testing, and Adjusting, "Exhaust Cooler (NRS) - Test". If necessary, install a replacement NRS cooler. Confirm that the fault has been eliminated. Result: The leak test is passed. Proceed to Test Step 11.
11. Cylinder Head Gasket A. Switch off the engine and allow the engine to cool to below normal working temperature. Remove the pressure cap for the coolant system. Perform a leak test on the cooling system and the NRS cooler. Refer to Systems Operation, Testing, and Adjusting, "Cooling System - Test". Refer to the subsection "Testing The Radiator And Cooling System For Leaks" .	Cylinder Head gasket	Result: The leak test fails. Repair: Check the cylinder head gasket. Refer to the recommended action for the cylinder head gasket within Troubleshooting, "Oil Contains Coolant". Check the cylinder head for flatness. Refer to the recommended action for checking flatness of the cylinder head within Systems Operation, Testing, and Adjusting, "Cylinder Head - Inspect". Result: The leak test is passed. Contact the Dealer Solutions Network (DSN).

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Coolant Temperature Is Low

Use this procedure in order to troubleshoot a low coolant temperature.

Probable Causes

- Extreme ambient temperatures
- Cooling system fault
- Coolant temperature sensor
- Water temperature regulator

Recommended Actions

Note: The procedures have been listed in order of probability. Complete the procedures in order.

WARNING

Personal injury can result from hot coolant, steam and alkali.

At operating temperature, engine coolant is hot and under pressure. The radiator and all lines to heaters or the engine contain hot coolant or steam. Any contact can cause severe burns.

Remove filler cap slowly to relieve pressure only when engine is stopped and radiator cap is cool enough to touch with your bare hand.

Cooling System Conditioner contains alkali. Avoid contact with skin and eyes.

Full Version Available

Caterpillar DP120N2 Forklift Engine Service and Operator Manual (99799-67102)

Caterpillar DP120N2 forklift engine service manual, covers diesel testing, adjustment, teardown, and assembly. Searchable PDF download.

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