



Service Repair Manual

Models

277D MULTI TERRAIN LOADER

Product: MULTI TERRAIN LOADER

Model: 277D MULTI TERRAIN LOADER FMT

Configuration: 277D Multi Terrain Loader FMT00001-UP (MACHINE) POWERED BY C3.3B Engine

Disassembly and Assembly

C3.3B Tier 4 Final and EU Stage 3B Engines for Caterpillar Built Machines

Media Number -UENR3278-07

Publication Date -01/09/2014

Date Updated -11/07/2016

i05218929

Diesel Particulate Filter - Remove and Install

SMCS - 108F-010

Removal Procedure



Wear goggles, gloves, protective clothing, and a National Institute for Occupational Safety and Health (NIOSH) approved P95 or N95 half-face respirator when handling a used Diesel Particulate Filter or Catalytic Converter Muffler. Failure to do so could result in personal injury.



The muffler, catalytic converter/muffler, and diesel particulate filter will become extremely hot during engine operation. A hot muffler, catalytic converter/muffler and diesel particulate filter can cause serious burns. Allow adequate cooling time before working on or near the muffler, catalytic converter/muffler and diesel particulate filter.

NOTICE

Do not strike any part of the assembly of the Diesel Particulate Filter (DPF). Do not allow any object to contact the internal element of the

DPF. If the internal element of the DPF becomes damaged, the assembly must be replaced.

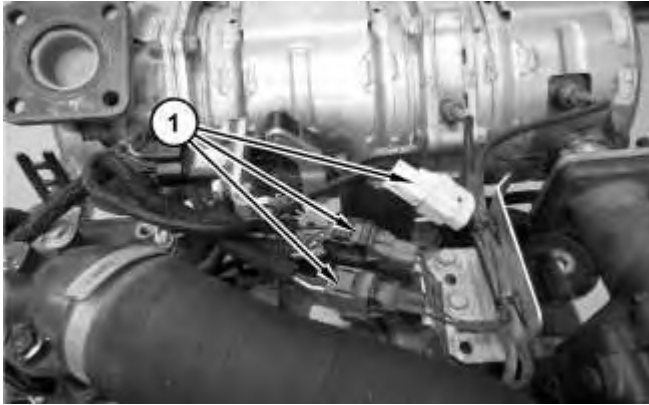


Illustration 1

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1. Disconnect harness assemblies (1).

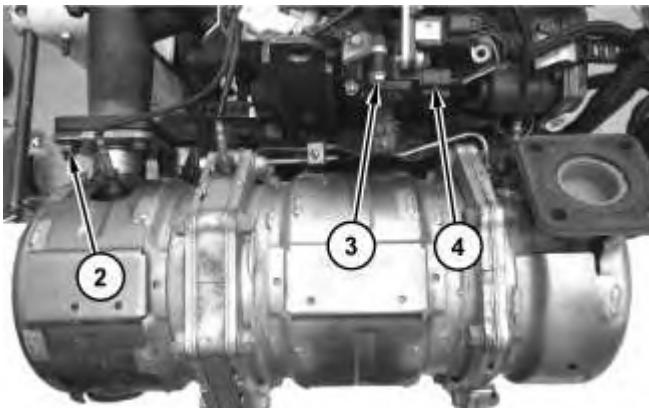


Illustration 2

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2. Remove bolts (2) and bolts (3). Disconnect harness assembly (4) from pressure sensor.



3. Remove bolts (5) from DPF mount bracket.
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Illustration 4

4. Use two people to remove diesel particulate filter (6).
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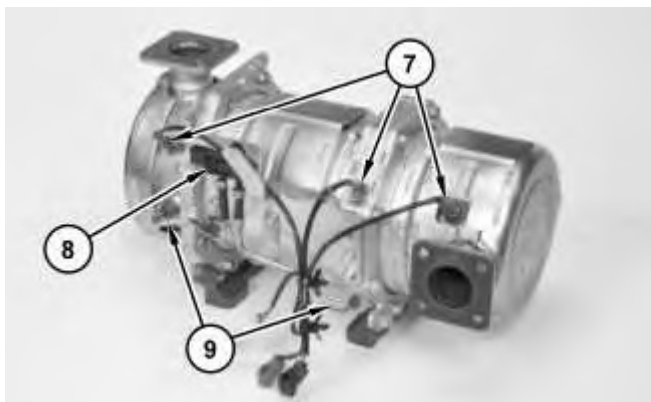


Illustration 5

5. Remove temperature sensors (7). Remove pressure sensor (8) and tube assemblies (9).

Installation Procedure

1. Install diesel particulate filter (6) in the reverse order of removal.
 - a. Tighten bolts (5) to a torque of $52 \pm 3 \text{ N}\cdot\text{m}$ ($38 \pm 2 \text{ lb ft}$).
 - b. Tighten sensors (7) to a torque of $30 \pm 4 \text{ N}\cdot\text{m}$ ($22 \pm 3 \text{ lb ft}$).
 - c. Tighten tube assemblies (9) to a torque of $19 \pm 3 \text{ N}\cdot\text{m}$ ($168 \pm 27 \text{ lb in}$).

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C3.3B Tier 4 Final and EU Stage 3B Engines for Caterpillar Built Machines

Media Number -UENR3278-07

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i05227613

Inlet Manifold - Remove and Install

SMCS - 1058-010

Removal Procedure

Start By:

- a. Remove fuel manifold.
- b. Remove exhaust gas recirculation valve.

Note: Refer to Specification UENR3421 "Engine Design" for non-specified engine Torque Values.

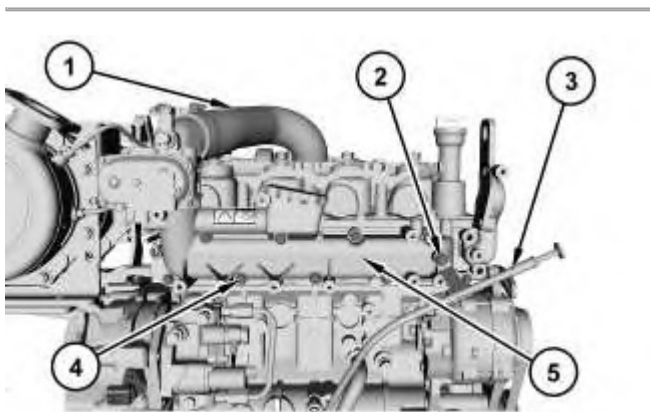


Illustration 1

g03339493

1. Disconnect hose assembly (1) and relocate.
2. Remove bolt (2) and remove tube assembly (3).
3. Remove bolts (4) to remove inlet manifold (5) and the gasket.

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