



Service Repair Manual

Models

305E2 CR Mini Hydraulic
Excavator

Product: MINI HYD EXCAVATOR

Model: 305E2 CR MINI HYD EXCAVATOR DF5

Configuration: 305E2 CR Mini Hydraulic Excavator DF500001-UP (MACHINE) POWERED BY C2.4 Engine

Disassembly and Assembly

C2.4 Tier 4 Final Engines for Caterpillar Built Machines

Media Number -UENR7319-02

Publication Date -01/07/2018

Date Updated -01/08/2018

i06521813

Fuel Injection Lines - Remove and Install

SMCS - 1252-010

Removal Procedure



Contact with high pressure fuel may cause fluid penetration and burn hazards. High pressure fuel spray may cause a fire hazard. Failure to follow these inspection, maintenance and service instructions may cause personal injury or death.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Dispose of all fluids according to local regulations and mandates.

1. Turn the fuel supply to the OFF position.
 2. Turn the battery disconnect switch to the OFF position.
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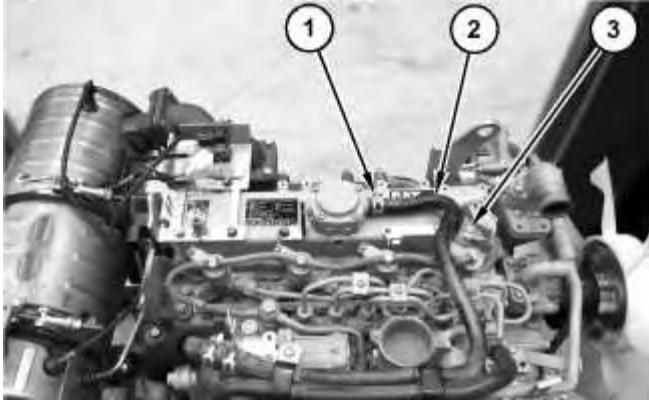


Illustration 1

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3. Remove bolt (3) and clamp (1). Disconnect hose assembly (2).

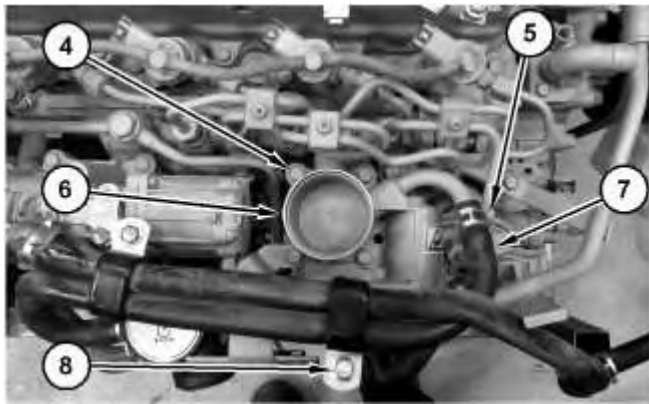


Illustration 2

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4. Remove bolt (8) and clamps (5). Disconnect hose assembly (7).
5. Remove bolts (4) and intake throttle valve (6).

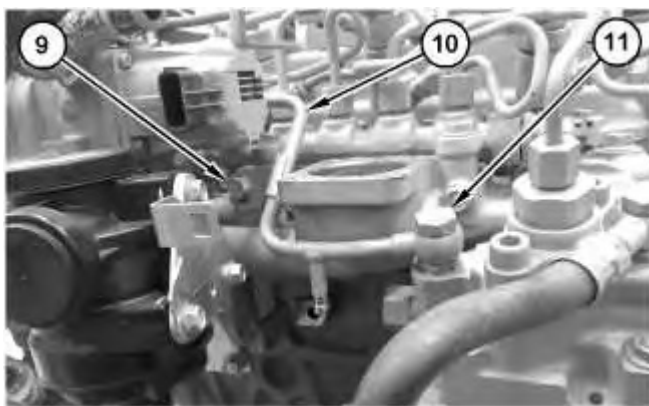


Illustration 3

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6. Remove bolt (9), bolt (11), and tube assembly (10).

Note: Cap and plug all fuel lines to prevent contaminating fuel system.

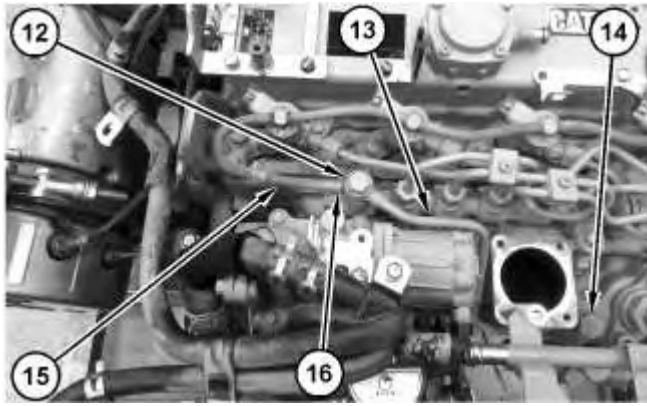


Illustration 4

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7. Remove clamp (16). Disconnect hose assembly (15).
8. Remove bolt (12), bolt (14), and tube assembly (13).

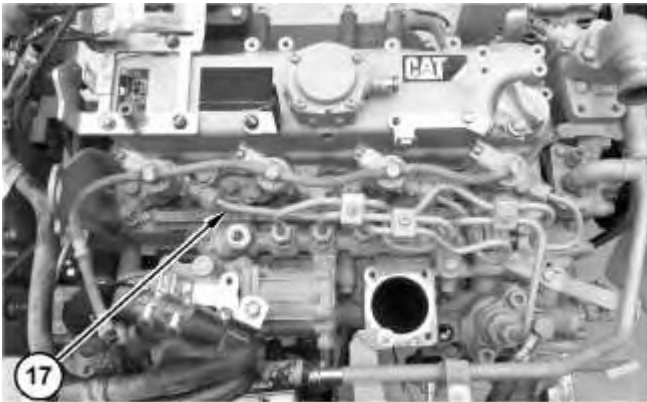


Illustration 5

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9. Remove fuel injection lines (17).

Note: Cap and plug all fuel lines to prevent contaminating fuel system.

Installation Procedure

1. Install fuel injection lines (17) in the reverse order of removal.
 - a. Tighten the retaining nuts of fuel injection lines (17) to a torque of 25 N·m to 29 N·m (221 lb in to 257 lb in).

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Media Number -UENR7319-02

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i06508651

Exhaust Gas Recirculation Cooler - Remove and Install

SMCS - 1087; 108C-010

Removal Procedure



Sulfuric Acid Burn Hazard may cause serious personal injury or death.

The exhaust gas cooler may contain a small amount of sulfuric acid. The use of fuel with sulfur levels greater than 15 ppm may increase the amount of sulfuric acid formed. The sulfuric acid may spill from the cooler during service of the engine. The sulfuric acid will burn the eyes, skin and clothing on contact. Always wear the appropriate personal protective equipment (PPE) that is noted on a material safety data sheet (MSDS) for sulfuric acid. Always follow the directions for first aid that are noted on a material safety data sheet (MSDS) for sulfuric acid.

Note: Plug or cap all open ports with new plugs or caps.

1. Drain the coolant. Refer to Operation and Maintenance Manual, "Cooling System Coolant - Change" for the correct draining and filling procedures.
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