



# Service Repair Manual

## **Models**

# D10N TRACK-TYPE TRACTOR

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Product: TRACK-TYPE TRACTOR

Model: D10N TRACK-TYPE TRACTOR 2YD

Configuration: D10N TRACK-TYPE TRACTOR 2YD00001-UP (MACHINE) POWERED BY 3412 ENGINE

## Disassembly and Assembly 3408E and 3412E Engines for Caterpillar Built Machines

Media Number -REN2336-06

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i01105362

# HEUI Fluid Manifold - Remove and Install

SMCS - 1126-010

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	2

### Start By:

- a. Remove the injection actuation pressure sensor. Refer to Disassembly and Assembly, "Injection Actuation Pressure Sensor - Remove and Install".
- b. Remove the unit injector sleeves. Refer to Disassembly and Assembly, "Unit Injector Sleeve - Remove".
- c. Remove the rocker arm and shaft. Refer to Disassembly and Assembly, "Rocker Arm and Shaft - Remove".
- d. Remove the valve mechanism cover base. Refer to Disassembly and Assembly, "Valve Mechanism Cover Base - Remove and Install".
- e. Remove the aftercooler. Refer to Disassembly and Assembly, "Aftercooler - Remove".

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### 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.**

**Refer to Special Publication, NENG2500, "Caterpillar Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Caterpillar products.**

**Dispose of all fluids according to local regulations and mandates.**

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### **NOTICE**

**Keep all parts clean from contaminants.**

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

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### **NOTICE**

**The cylinder head must be removed and a new spacer plate gasket must be installed anytime the HEUI Fluid Manifold has been removed. Refer to Disassembly and Assembly, "Cylinder Head - Install" in this module.**

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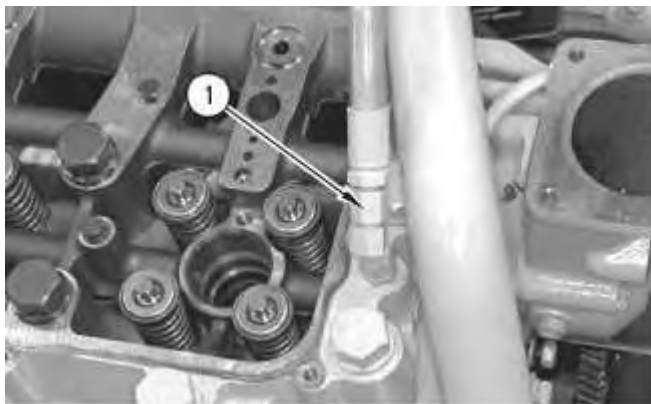


Illustration 1  
Typical example

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1. Remove hose (1) from the front of the HEUI Fluid Manifold.
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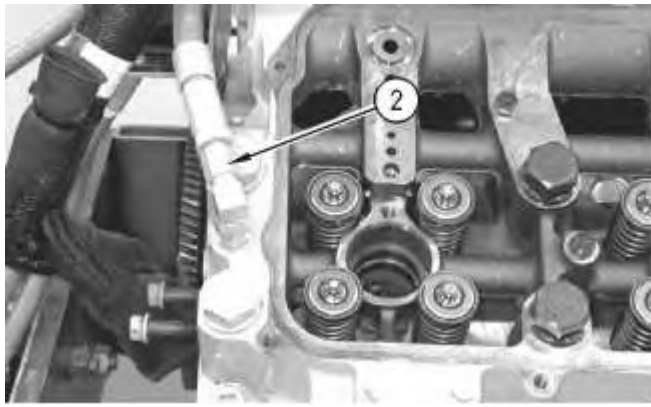


Illustration 2

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Typical example

2. Remove hose (2) from the rear of the HEUI Fluid Manifold.

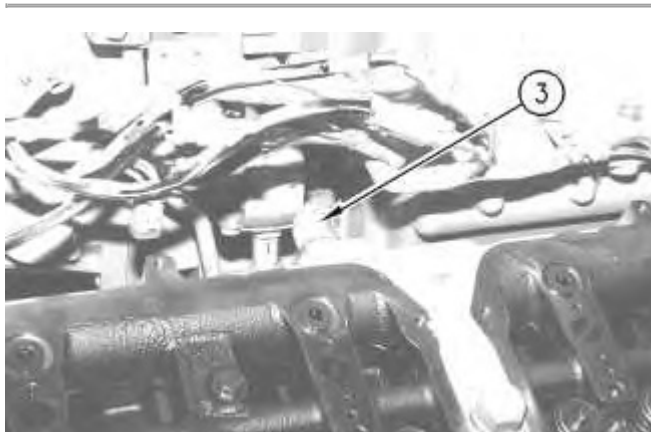


Illustration 3

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Typical example

3. Remove tube assembly (3).

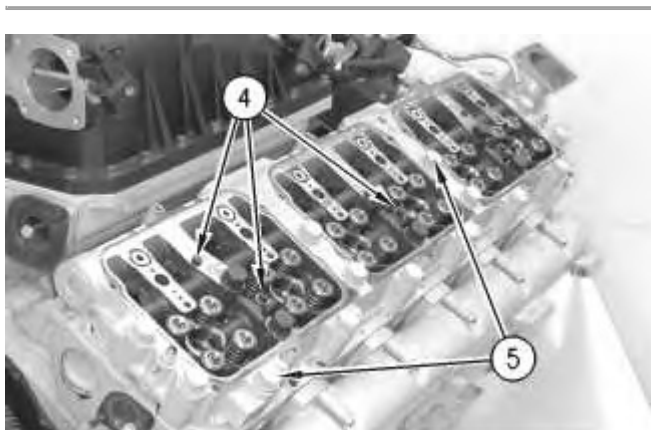


Illustration 4

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Typical example

4. Remove cylinder head bolts (5) and the washers. Remove HEUI Fluid Manifold bolts (4).

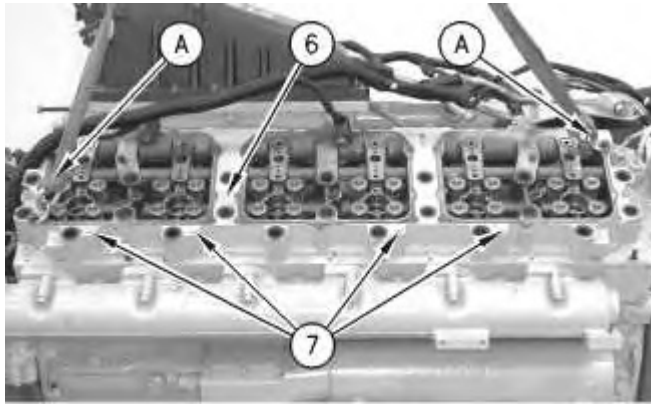


Illustration 5

g00582745

Typical example

5. Install Tool (A) and a hoist on the HEUI Fluid Manifold. Remove HEUI Fluid Manifold bolts (7). Remove HEUI Fluid Manifold (6).

The weight of the HEUI Fluid Manifold for the 3412E is 60 kg (131 lb).

The weight of the HEUI Fluid Manifold for the 3408E is 39 kg (86 lb).

## Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7573	Link Bracket	2

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### NOTICE

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### NOTICE

**The cylinder head must be removed and a new spacer plate gasket must be installed anytime the HEUI Fluid Manifold has been removed. Refer to Disassembly and Assembly, "Cylinder Head - Install" in this module.**

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