CATERPILLAR®

Service Repair Manual

Models

C9 Industrial Engine

Product: INDUSTRIAL ENGINE
Model: C9.3 INDUSTRIAL ENGINE D9N
Configuration: C9 Industrial Engine D9N00001-UP

Disassembly and Assembly
C9.3 Industrial Engine
Media Number -KENR8164-02 **Publication Date -01/11/2017** **Date Updated -14/11/2017**

i05346018

Relief Valve (Fuel) - Remove and Install

SMCS - 1702-010-PV

Removal Procedure

Start By:

A. Remove the exhaust sensor lines.

NOTICE

Contact with high pressure fuel may cause personal injury or death. Wait 60 seconds after the engine has stopped to allow fuel pressure to purge before any service or repair is performed on the engine fuel lines.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

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.

WARNING

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.

1. Turn the fuel supply to the OFF position.
2. Disconnect the battery. Refer to Operation and Maintenance Manual, "Battery or Battery Cable - Disconnect".
3. Remove all components in order to access to the wiring harness.

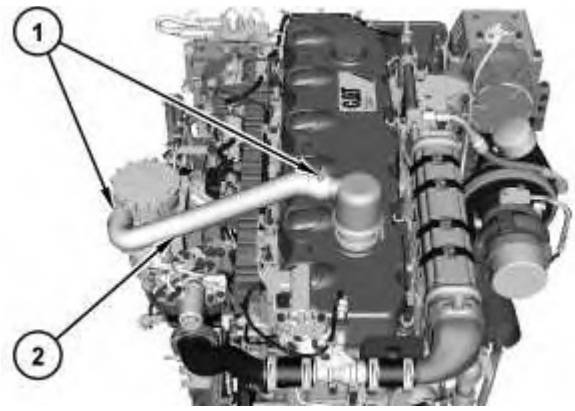

Illustration 1 g02140798

4. Loosen clamp assemblies (1) and remove hose (2) .

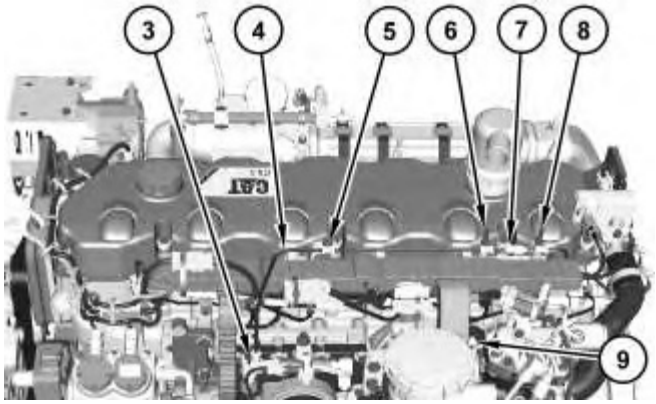

Illustration 2 g02140852

5. Disconnect fittings (3) and (7) .
6. Remove bolts (5) , (6) , and (8) and remove tube assembly (4) .
7. Remove bolt (9) .

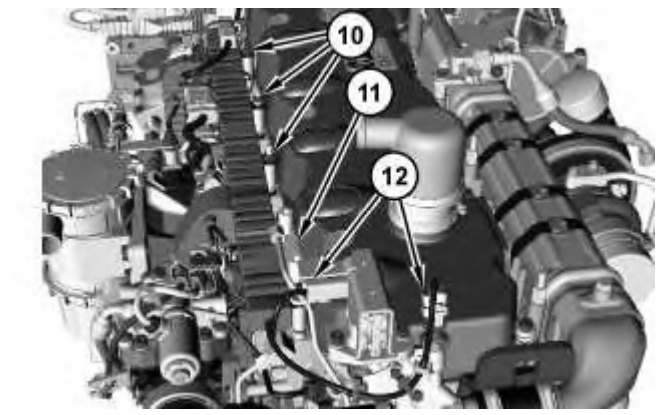

Illustration 3 g02140971

8. Remove nuts (10) and remove bracket (11) .
9. Disconnect harness assemblies (12) .

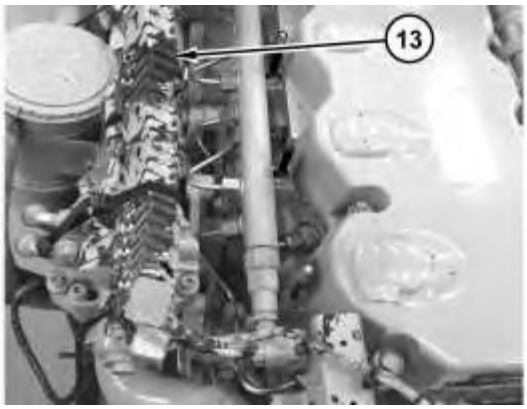

Illustration 4 g02141940

Typical Example

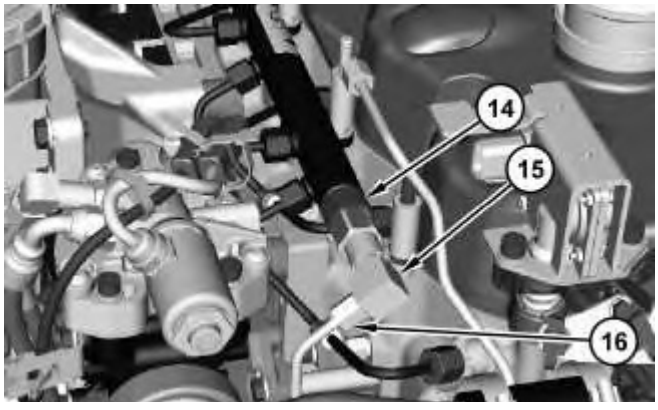

Illustration 5 g02141948

Illustration 6 g02156903

10. Position harness assembly (13) out of the way with cable straps.
11. Disconnect tube assembly (16) and remove fitting (15) .

Note: Relief valve (14) is a two-piece valve which should not be disassembled.

Note: Do not loosen at Location (X) .

12. Remove relief valve (14) .

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

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1. Install relief valve (14) in the reverse order of removal.
    a. Tighten relief valve (14) to a torque of 95 ± 3 N·m (70 ± 2 lb ft).

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i07039625

Fuel Injection Pump - Remove and Install

SMCS - 1251-010

Removal Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Name**	**Qty**
A (1)	350-7549	Engine Turning Tool	1
B	294-3031	Fuel Pump Pinch Bolt	1

(1) The tooling is designed to turn the crankshaft in engines that have limited access to the flywheel housing. The tool engages all four bolt heads which are located in the front vibration damper.

Note: Cleanliness is a critical factor. Clean the exterior of the components before you begin the removal procedure. This action will help to prevent dirt from entering the internal mechanism.

NOTICE

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NOTICE

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