



# Service Repair Manual

## **Models**

# 450 Backhoe Loader

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Product: BACKHOE LOADER

Model: 450 BACKHOE LOADER KJH

Configuration: 450 Backhoe Loader KJH00001-UP (MACHINE) POWERED BY C4.4 Engine

## Disassembly and Assembly C4.4 Engines for Caterpillar Built Machines

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i05820237

# Fuel Manifold (Rail) - Remove and Install

SMCS - 1702-010

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	370-8376	Capping Kit	1

### Start By:

- Remove the fuel injection lines. Refer to Disassembly and Assembly, "Fuel Injection Lines - Remove" for the correct procedure.



**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.**

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### NOTICE

**Ensure that all adjustments and repairs that are carried out to the fuel system are performed by authorized personnel that have the correct training.**

Before beginning ANY work on the fuel system, refer to Operation and Maintenance Manual, "General Hazard Information and High Pressure Fuel Lines" for safety information.

Refer to System Operation, Testing and Adjusting, "Cleanliness of Fuel System Components" for detailed information on the standards of cleanliness that must be observed during ALL work on the fuel system.

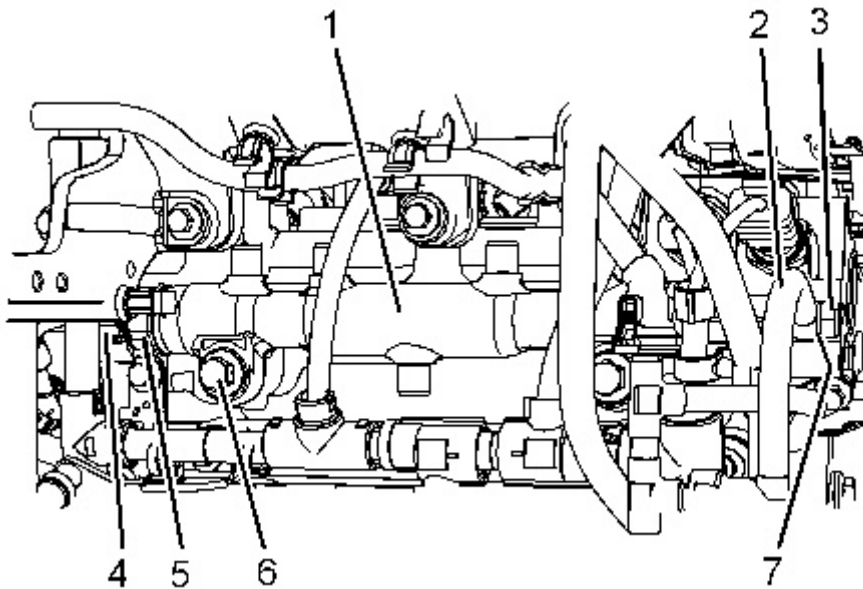


Illustration 1

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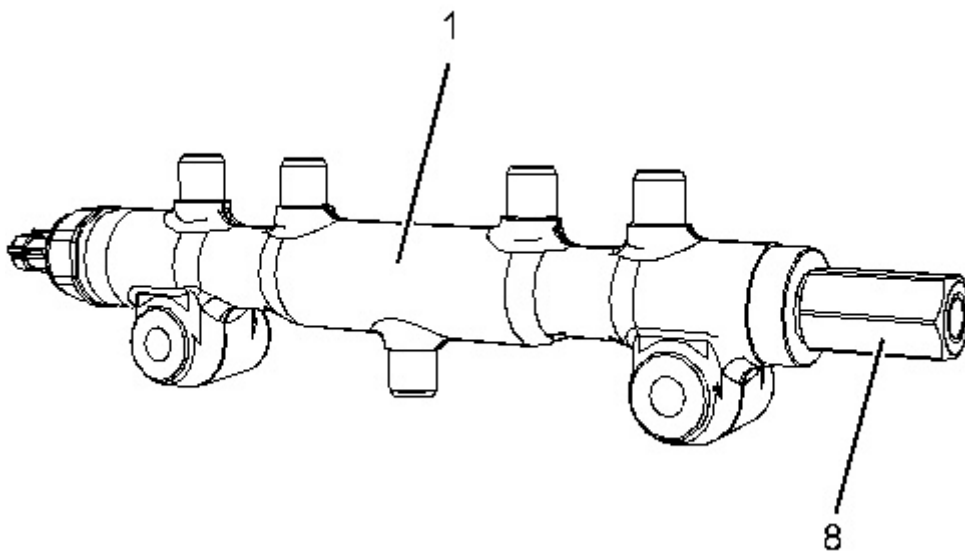


Illustration 2

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1. Thoroughly clean the area around fuel manifold (1).

2. Disconnect harness assembly (4) from fuel pressure sensor (5).
3. Remove banjo bolt (3) from plastic tube assembly (2). Use Tooling (A) to plug the plastic tube assembly. Remove sealing washers (7) (not shown). Use Tooling (A) to plug fuel manifold (1).
4. Remove bolts (6).
5. Remove fuel manifold (1) from the cylinder block.
6. If necessary, remove fuel pressure relief valve (8) from fuel manifold (1). Ref to Disassembly and Assembly, "Relief Valve (Fuel) - Remove and Install" for the correct procedure.

## Installation Procedure

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### NOTICE

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**Before beginning ANY work on the fuel system, refer to Operation and Maintenance Manual, "General Hazard Information and High Pressure Fuel Lines" for safety information.**

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1. Ensure that all ports on the fuel manifold are capped. Ensure that the fuel manifold is externally clean and free from damage.

**Note:** Do not install a fuel manifold that has not been capped. All caps must be left in place until the fuel injection lines are installed.

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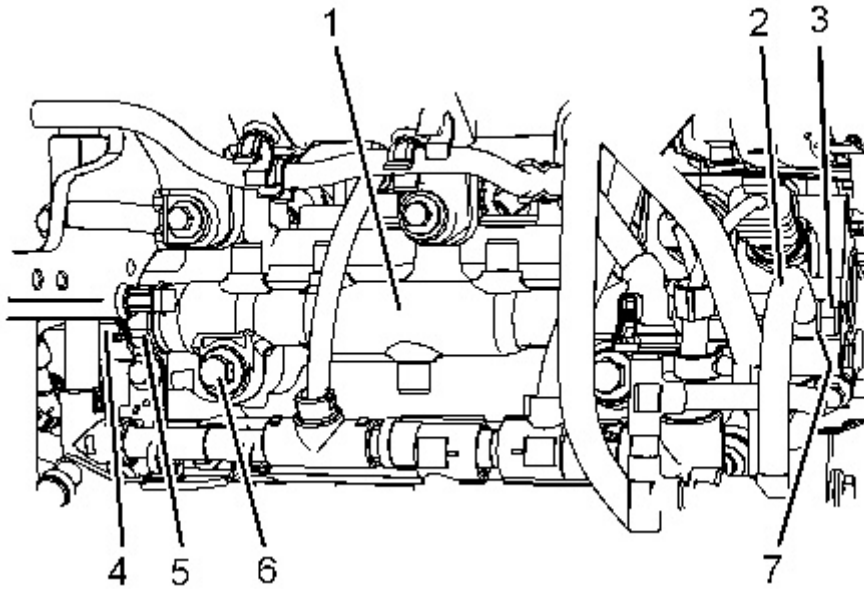


Illustration 3

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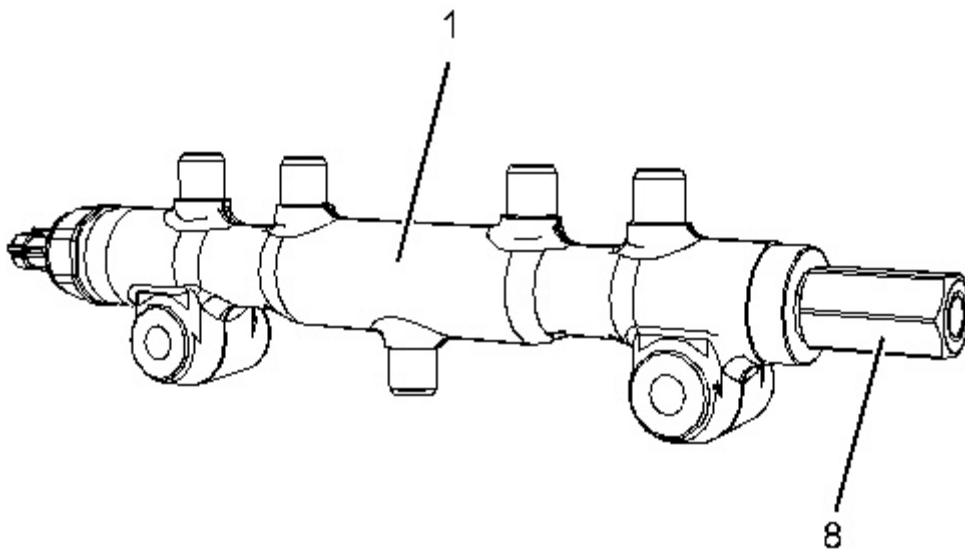


Illustration 4

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2. If necessary, install fuel pressure relief valve (8) to fuel manifold (1). Ref to Disassembly and Assembly, "Relief Valve (Fuel) - Remove and Install" for the correct procedure.
3. Position fuel manifold (1) onto the cylinder block. Install bolts (6) to fuel manifold (1) finger tight.
4. Install a new set of seals to the electronic unit injectors and a new set of fuel injection lines. Refer to Disassembly and Assembly, "Fuel Injection Lines - Install" for the correct procedure.
5. Tighten bolts (6) to a torque of 22 N·m (195 lb in).
6. Install a new sealing washer (7) (not shown) to banjo bolt (3).

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