

Fuel Filter  
(1) Banjo bolt.



Fuel Lift And Priming Pump  
(5) Priming lever.

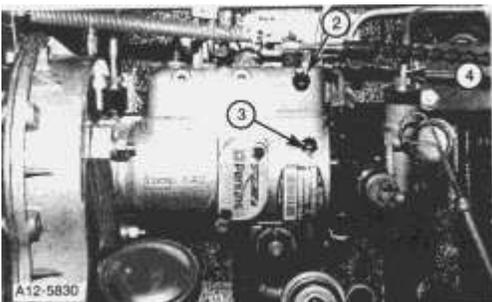
1. Loosen fuel filter banjo bolt (1). Operate priming lever (5) on the fuel lift pump until fuel flows, free of air bubbles around the threads. Tighten the bolt. If the cam lobe on the camshaft that drives the fuel lift pump is on maximum lift, priming lever (5) will not work. Turn the engine until priming lever (5) can be operated.

---

### NOTICE

**If the cold start heater is turned on with air in the fuel line or no fuel supply at all, the unit may become distorted and have to be replaced. Also fuel that is not burned can enter the combustion chamber and may cause hard starting, black exhaust smoke and engine noise. It can also cause hydraulic lockup.**

---



Fuel Injection Pump  
(2) Governor vent screw. (3) Hydraulic head vent screw. (4) Fuel inlet fitting.

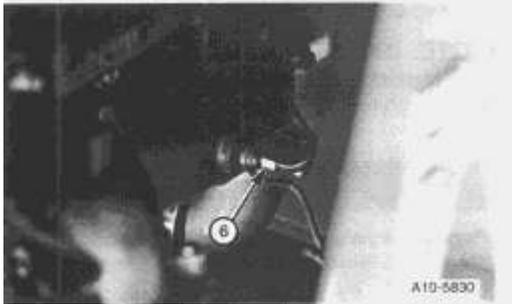
2. Disconnect the wire from the cold start heater. Turn the ignition switch ON. Loosen fuel inlet fitting (4) at

the injection pump and operate priming lever (5) on the fuel lift pump. When fuel flows freely with no air around the threads, tighten fitting (4) to a torque of 13.3 N·m (120 lb in).

3. Loosen hydraulic head vent screw (3).

4. Loosen vent screw (2).

5. Operate priming lever (5) on fuel lift pump until fuel flows free of air bubbles from screws (2) and (3). Tighten hydraulic head vent screw (3) first and then governor vent screw (2). Tighten the screws to a torque of 4.6 N·m (40 lb in).



Cold Start Heater  
(6) Fuel line nut.

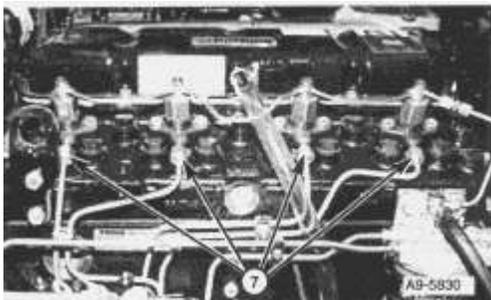
---

### NOTICE

**If the cold start heater is turned on with air in the fuel line or no fuel supply at all, the unit may become distorted and have to be replaced. Also fuel that is not burned can enter the combustion chamber and may cause hard starting, black exhaust smoke and engine noise. It can also cause hydraulic lockup.**

---

6. Turn the ignition switch OFF. Loosen fuel line nut (6) at the cold start heater. Operate priming lever (5) until fuel flows free of air bubbles at nut (6). When fuel flows freely with no air, tighten fuel line nut (6).



Fuel Lines  
(7) Fuel line nuts.

7. Connect the wire to the cold start heater again. Loosen nuts (7) at nozzle ends of two fuel injection lines.

8. Set the accelerator at full open position and make sure the shutoff control is in the RUN position.