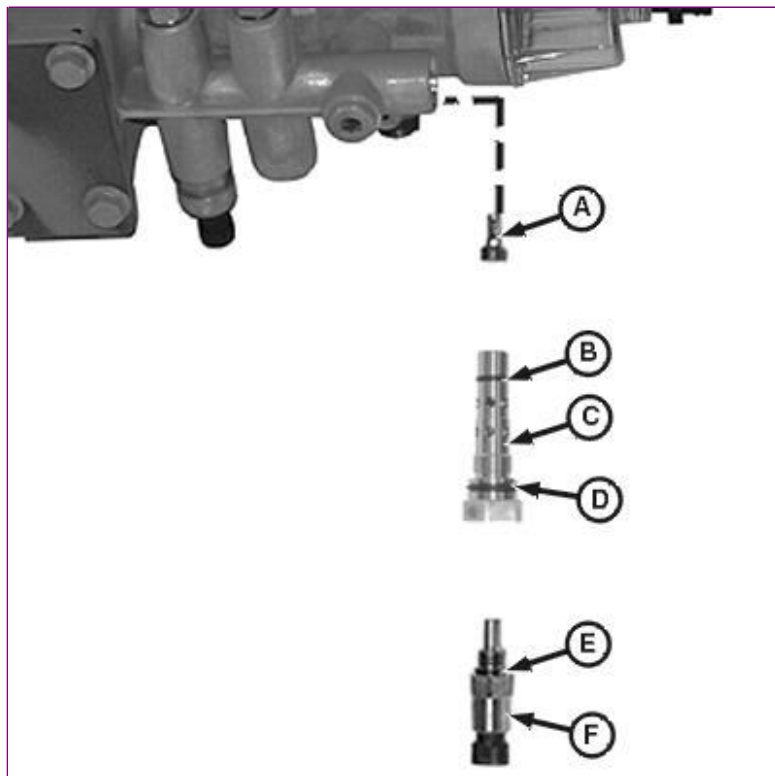


CTM188 - PowerTech™ 10.5 L and 12.5 L Diesel Engines Level 6 Electronic Fuel Systems With Lucas EUIs

Remove and Install High Pressure Regulating Valve

Remove and Install High Pressure Regulating Valve



RG11168-UN: High Pressure Regulating Valve

LEGEND:

- A - Screen
- B - O-Ring
- C - High Pressure Regulating Valve
- D - O-Ring
- E - O-Ring
- F - Fuel Temperature Sensor

1. Close fuel shut-off valve, if equipped.

2. **NOTE:**

On high fuel tank applications without fuel shut-off valve, fuel tank return line must be pinched before disconnecting, then plugged,

Disconnect fuel tank return line from filter housing and drain fuel into clean container.

3. Open valve on water separator bowl and drain filter housing.

4. Remove fuel temperature sensor (F). See [REMOVE AND INSTALL FUEL TEMPERATURE SENSOR](#) in Group 110.

5. Remove high pressure regulating valve (C).

6. To remove screen (A), see [REMOVE AND INSTALL 100 MICRON INTERNAL FILTER HOUSING SCREEN INSERT](#) next in this Group.

7. **NOTE:**

High pressure regulating valve is not repairable. Do not disassemble valve. If defective, replace entire assembly.

Clean and inspect all parts. Replace all O-rings.

8. Install parts in reverse order.

If removed, install screen (A). See [REMOVE AND INSTALL 100 MICRON INTERNAL FILTER HOUSING SCREEN INSERT](#) next in this Group.

Tighten regulating valve to specifications.

Item	Measurement	Specification
High Pressure Regulating Valve-to-Filter Housing	Torque	14 N·m (124 lb-in.)

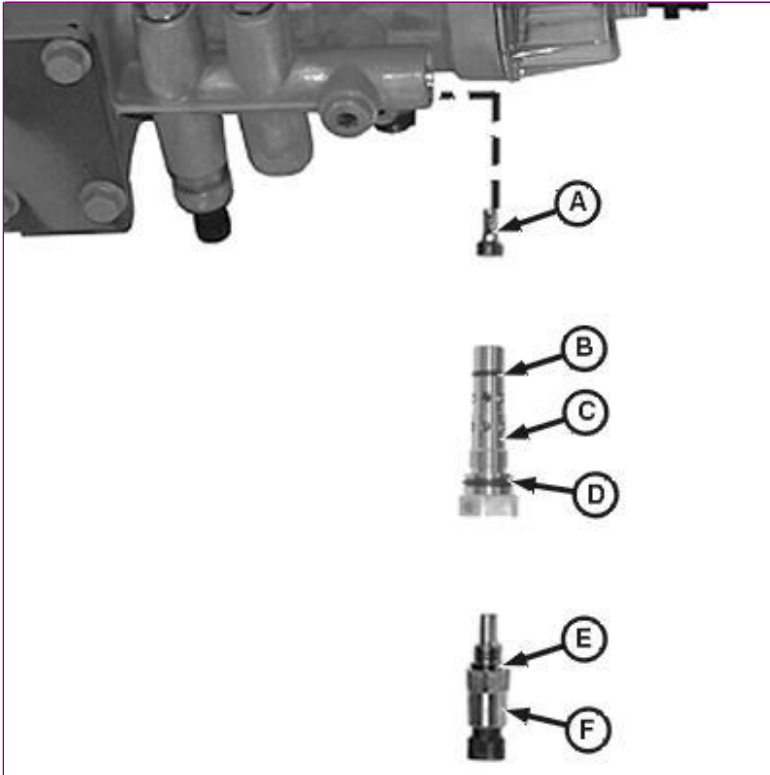
9. Install fuel temperature sensor (F). See [REMOVE AND INSTALL FUEL TEMPERATURE SENSOR](#) in Group 110.

10. Add fuel to filter housing between minimum and maximum marks on housing. Fuel can be added by throttling the fuel shut-off valve (if equipped), or by removing cover and adding fuel from a clean container.

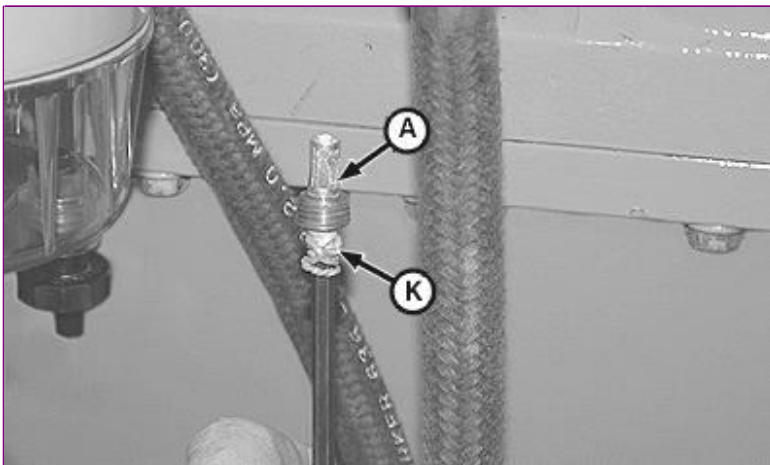
CTM188 - PowerTech™ 10.5 L and 12.5 L Diesel Engines Level 6 Electronic Fuel Systems With Lucas EUIs

Remove and Install 100 Micron Internal Filter Housing Screen Insert

Remove and Install 100 Micron Internal Filter Housing Screen Insert



RG11168-UN: High Pressure Regulating Valve



RG10358-UN: Remove Screen

LEGEND:

- A - 100 Micron Screen
- B - O-Ring
- C - High Pressure Regulating Valve
- D - O-Ring
- E - O-Ring
- F - Fuel Temperature Sensor
- K - Allen Wrench with Rubber Band

1. Remove fuel temperature sensor (F). See [REMOVE AND INSTALL FUEL TEMPERATURE SENSOR](#) in Group 110.

Remove high pressure regulating valve (C). See [REMOVE AND INSTALL HIGH PRESSURE REGULATING VALVE](#) earlier in this Group.

2. **IMPORTANT:**

If allen wrench is pushed too far into 10 micron screen during removal and installation, screen may be damaged. Tie a rubber band (K) approximately 10 mm (3/8 in.) from end of allen wrench, as shown, to prevent screen damage.

NOTE:

Screen is approximately 91 mm (3-5/8 in.) up in bore of filter housing. Use a long allen wrench.

Attach a rubber band (K) on end of 5 mm allen wrench and remove 10 micron screen (A) from filter housing.

3. Clean and inspect screen.
4. Using allen wrench with rubber band, install screen in filter housing and tighten to the following specification.

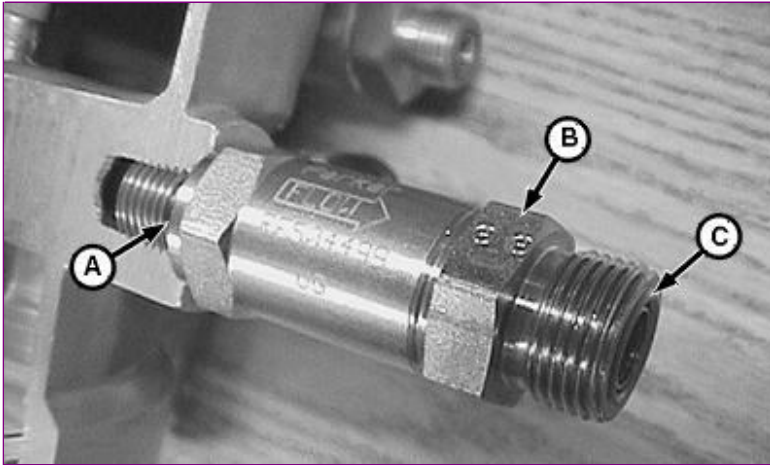
Item	Measurement	Specification
100 Micron Internal Filter Housing Screen	Torque	5 N·m (44 lb-in.)

5. Install pressure regulating valve parts (B—D). See [REMOVE AND INSTALL HIGH PRESSURE REGULATING VALVE](#) earlier in this Group. Install fuel temperature sensor parts (E) and (F). See [REMOVE AND INSTALL FUEL TEMPERATURE SENSOR](#) in Group 110.

CTM188 - PowerTech™ 10.5 L and 12.5 L Diesel Engines Level 6 Electronic Fuel Systems With Lucas EUIs

Remove and Install Fuel Filter Check Valve

Remove and Install Fuel Filter Check Valve



RG10307-UN: Fuel Filter Check Valve

LEGEND:

- A - O-Ring
- B - Check Valve
- C - O-Ring

1. Close fuel shut-off valve (if equipped).
2. Disconnect fuel line (shown disconnected) and remove check valve (B). Remove O-rings (A) and (C) from both ends of check valve.
3. Install check valve in filter housing and tighten to specifications.

Item	Measurement	Specification
Fuel Filter Check Valve to Fuel Filter Housing	Torque	33 N·m (24 lb-ft)

4. Connect fuel line and tighten to specifications.

Item	Measurement	Specification
Fuel Line-to-Fuel Filter Check Valve	Torque	24 N·m (18 lb-ft)

5. Open fuel shut-off valve.

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