1 8 09-13

Service Information Bulletin

SUBJECT	DATE
Removal and Installation of the Quantity Control Valve - Three-Filter System	August 2013

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0082	DD Platform	Removal of the Quantity Control Valve - Three-Filter System	Updating procedure to include step to remove air compressor coolant line.
		Installation of the Quantity Control Valve - Three-Filter System	

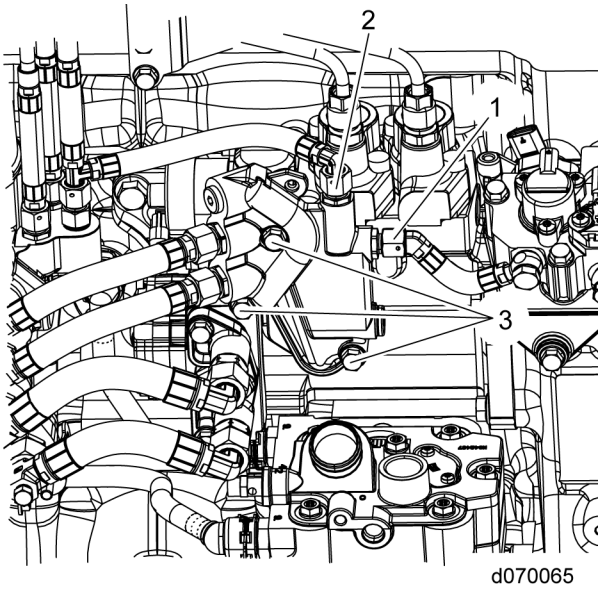
13400 Outer Drive, West, Detroit, Michigan 48239-4001
Telephone: 313-592-5000
www.demanddetroit.com

2 Removal of the Quantity Control Valve - Three-Filter System

Remove as follows:

NOTICE: Do not over-tighten the water drain valve. Failure to properly tighten the water drain valve may cause damage to the water drain valve and housing.

1. Steam clean engine and housing on high pressure fuel pump.
2. Drain cooling system. Refer to Original Equipment Manufacturer (OEM) procedures.
3. Drain the fuel system. Refer to section "Draining the Fuel System Using J-48710 Prior to Repairs - Three-Filter System".
4. Remove needle return line (2) from high pressure flange.



5. Remove doser supply line (1) from high pressure flange.
6. Remove three bolts (3) that secure high pressure flange to high pressure fuel pump. Discard gasket.
7. Remove the air compressor inlet coolant line from the side of the cylinder block.
8. Disconnect electrical connector from quantity control valve.
9. Remove bracket from high pressure fuel pump to block.
10. Remove three bolts attaching quantity control valve to high pressure pump.
11. Remove quantity control valve. Ensure that both O-rings are removed from pump housing.

3 Installation of the Quantity Control Valve - Three-Filter System

Install as follows:

1. Lubricate the O-ring seal on the new quantity control valve with clean diesel fuel.
2. Install new quantity control valve; torque three attaching bolts to 8 N·m (6 lb·ft).
3. Install bracket from high pressure fuel pump to block. Torque to 30 N•m (22 lb•ft) on pump side; 100 N•m (74 lb•ft) on block side.
4. Connect electrical connector for quantity control valve.
5. Install the air compressor inlet coolant line on to the side of the cylinder block.

NOTE: Verify that there are no plastic line plugs on the high pressure flange before installing it onto the fuel pump.

6. Install new gasket; torque high pressure manifold bolts on high pressure fuel pump to 30 N•m (22 lb•ft).
7. Install needle return line to high pressure manifold; torque to 25 N·m (18 lb·ft).
8. Install doser supply line to high pressure manifold; torque to 25 N•m (18 lb•ft).
9. Fill the engine with coolant to the correct level.
10. Prime fuel system. Refer to section "Priming the Fuel System Using ESOC 350 Fuel Priming Pump - Three-Filter System".
11. Reset the quantity control valve adaptive values.
    For EPA07: Refer to section "EPA07 Resetting Quantity Control Valve Adaptive Values - Three-Filter System".
    For EPA10: Refer to section "EPA10 Resetting Quantity Control Valve Adaptive Values - Three-Filter System".