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Service Information Bulletin

SUBJECT	DATE
Hydrocarbon Doser Coolant Lines	March 2016

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0083	DD Platform	Removal of the Hydrocarbon Doser Coolant Lines - DD13 and DD15AT	New procedures.
		Installation of the Hydrocarbon Doser Coolant Lines - DD13 and DD15AT	
		Removal of the Hydrocarbon Doser Coolant Lines - DD15TC and DD16	
		Installation of the Hydrocarbon Doser Coolant Lines - DD15TC and DD16	



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2 Removal of the Hydrocarbon Doser Coolant Lines - DD13 and DD15AT

Remove as follows:



WARNING: PERSONAL INJURY

To avoid injury from hot surfaces, wear protective gloves, or allow engine to cool before removing any component.

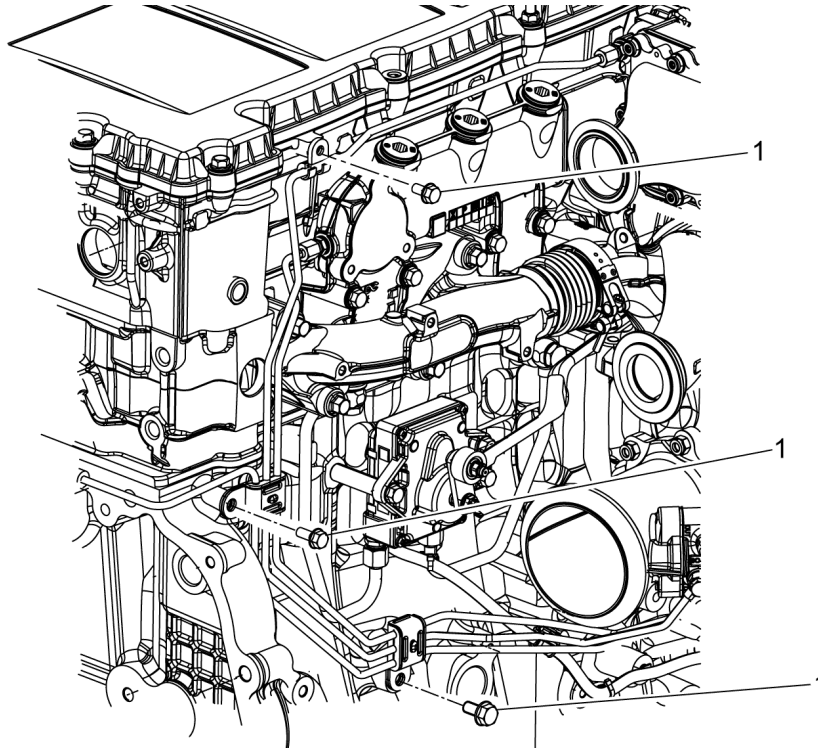
1. Shut off the engine, apply the parking brake, chock the wheels, and perform any other applicable safety steps.



CAUTION: ELECTRICAL SHOCK

To avoid injury from electrical shock, use care when connecting battery cables. The magnetic switch studs are at battery voltage.

2. Disconnect the batteries. Refer to Original Equipment Manufacturer (OEM) procedures.
3. Open the hood.
4. If necessary, remove the front bumper. Refer to the OEM procedure.
5. If necessary, remove the splash shield. Refer to the OEM procedure.
6. Drain the engine coolant. Refer to section "Cooling System Drain Procedure".
7. Remove the air filter housing assembly.
8. Disconnect the Diesel Exhaust Fluid (DEF) header coolant line at the water manifold. Refer to the OEM procedure.
9. Remove and save the bolts (1) attaching the p-clips holding the coolant supply and return lines to the cylinder block.



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NOTE: When removing the Hydrocarbon (HC) doser coolant lines, hold the water manifold HC doser coolant line fitting with a separate wrench.

10. Remove the HC doser coolant inlet line from the HC fuel doser housing and the water manifold. Discard seal rings.

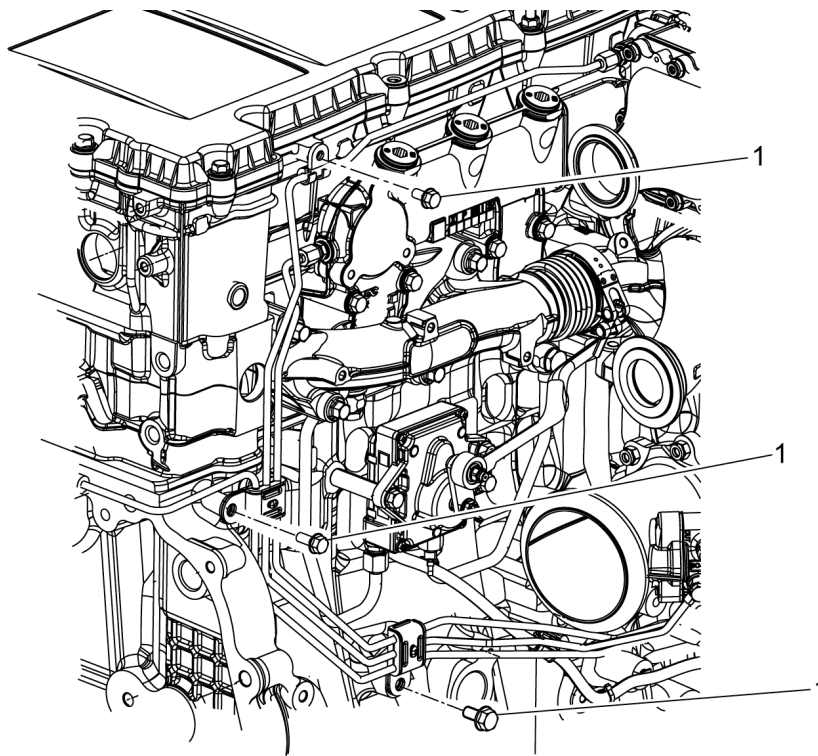
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11. Remove the HC doser coolant outlet line from the HC fuel doser housing and the water manifold. Discard seal rings.

3 Installation of the Hydrocarbon Doser Coolant Lines - DD13 and DD15AT

Install as follows:

NOTE: When installing the Hydrocarbon (HC) doser coolant lines, hold the water manifold HC doser coolant line fitting with a separate wrench.

1. Install the HC doser coolant inlet and outlet lines to the water manifold assembly.
2. Torque the HC doser coolant inlet and outlet lines at the water manifold assembly.
 - For the 5mm long thread fitting, torque to 15 N·m (11 lb·ft)
 - For the 15mm long thread fitting, torque to 22 N·m (16 lb·ft)
3. With new seal rings, install the inlet and outlet coolant lines to the Hydrocarbon (HC) doser housing. Torque to 15 N·m (11 lb·ft).
4. Install the bolts (1) attaching the p-clips holding the coolant supply and return lines to the cylinder block.



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5. Torque the top two p-clip bolts to 30 N·m (22 lb·ft).
6. Torque the lower p-clip bolt closest to the HC fuel doser housing to 60 N·m (44 lb·ft).
7. Connect the Diesel Exhaust Fluid (DEF) header coolant line at the water manifold. Refer to the Original Equipment Manufacturer (OEM) procedure.
8. Install the air filter. Refer to OEM procedures.
9. If removed, install the splash shield. Refer to the OEM procedure.
10. If removed, install the front bumper. Refer to the OEM procedure.



CAUTION: ELECTRICAL SHOCK

To avoid injury from electrical shock, use care when connecting battery cables. The magnetic switch studs are at battery voltage.

11. Reconnect the batteries. Refer to OEM procedures.

12. Fill the cooling system. Refer to section "Cooling System Fill Procedure".
13. Close the hood.

4 Removal of the Hydrocarbon Doser Coolant Lines - DD15TC and DD16

Remove as follows:



WARNING: PERSONAL INJURY

To avoid injury from hot surfaces, wear protective gloves, or allow engine to cool before removing any component.

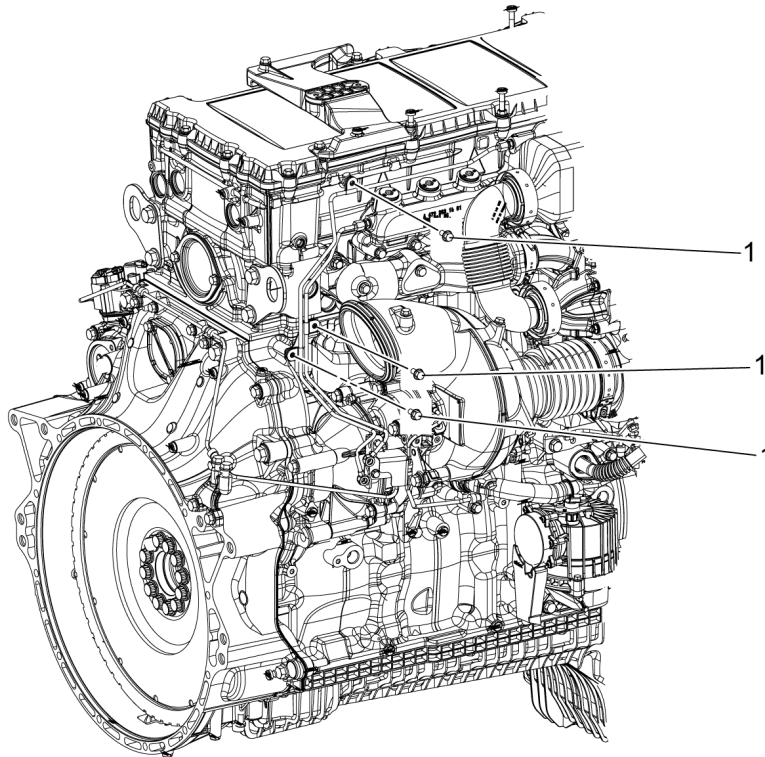
1. Shut off the engine, apply the parking brake, chock the wheels, and perform any other applicable safety steps.



CAUTION: ELECTRICAL SHOCK

To avoid injury from electrical shock, use care when connecting battery cables. The magnetic switch studs are at battery voltage.

2. Disconnect the batteries. Refer to Original Equipment Manufacturer (OEM) procedures.
3. Open the hood.
4. If necessary, remove the front bumper. Refer to the OEM procedure.
5. If necessary, remove the splash shield. Refer to the OEM procedure.
6. Drain the engine coolant. Refer to section "Cooling System Drain Procedure".
7. Remove the air filter housing assembly.
8. Disconnect the Diesel Exhaust Fluid (DEF) header coolant line at the water manifold. Refer to the OEM procedure.
9. Remove the exhaust S-pipe. Refer to section "Removal of the DD15 and DD16 Exhaust S-pipe".
10. Remove and save the bolts (1) attaching the p-clips holding the coolant supply and return lines to the cylinder block.



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NOTE: When removing the Hydrocarbon (HC) doser coolant lines, hold the water manifold HC doser coolant line fitting with a separate wrench.

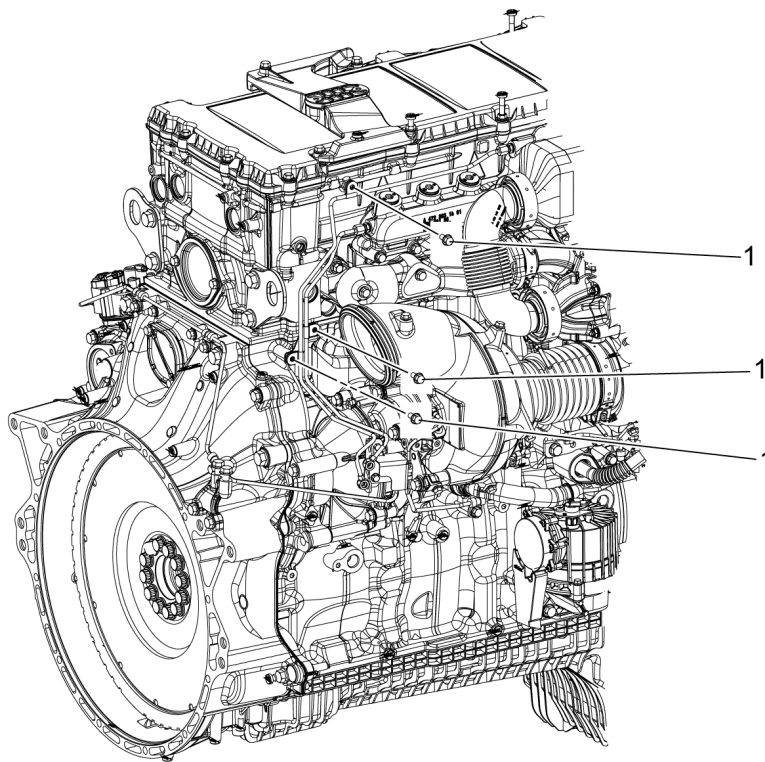
11. Remove the HC doser coolant inlet line from the water manifold.
12. Remove the HC doser coolant outlet line from the water manifold.

5 Installation of the Hydrocarbon Doser Coolant Lines - DD15TC and DD16

Install as follows:

NOTE: When installing the Hydrocarbon (HC) doser coolant lines, hold the water manifold HC doser coolant line fitting with a separate wrench.

1. Install the HC doser coolant inlet and outlet lines to the water manifold assembly.
2. Torque the HC doser coolant inlet and outlet lines at the water manifold assembly.
 - For the 5mm long thread fitting, torque to 15 N·m (11 lb·ft)
 - For the 15mm long thread fitting, torque to 22 N·m (16 lb·ft)
3. Install the bolts (1) attaching the p-clips holding the coolant supply and return lines to the cylinder block. Torque the p-clip bolts to 30 N·m (22 lb·ft).



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4. Install the exhaust S-pipe. Refer to section "Installation of the DD15 and DD16 Exhaust S-pipe".
5. Connect the Diesel Exhaust Fluid (DEF) header coolant line at the water manifold. Refer to the Original Equipment Manufacturer (OEM) procedure.
6. Install the air filter. Refer to OEM procedures.
7. If removed, install the splash shield. Refer to the OEM procedure.
8. If removed, install the front bumper. Refer to the OEM procedure.



CAUTION: ELECTRICAL SHOCK

To avoid injury from electrical shock, use care when connecting battery cables. The magnetic switch studs are at battery voltage.

9. Reconnect the batteries. Refer to OEM procedures.
10. Fill the cooling system. Refer to section "Cooling System Fill Procedure".
11. Close the hood.