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## Service Information Bulletin

SUBJECT	DATE
Exhaust and Exhaust Gas Recirculation	November 2017

### Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0198	DD8 Medium Duty	Removal of the Exhaust Gas Recirculation Hot Pipe	Updated GHG17 MD procedures.
		Installation of the Exhaust Gas Recirculation Hot Pipe	
DDC-SVC-MAN-0194	DD5 Medium Duty	Removal of the Exhaust Gas Recirculation Hot Pipe	
		Installation of the Exhaust Gas Recirculation Hot Pipe	



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## 2 Removal of the Exhaust Gas Recirculation Hot Pipe

Remove as follows:

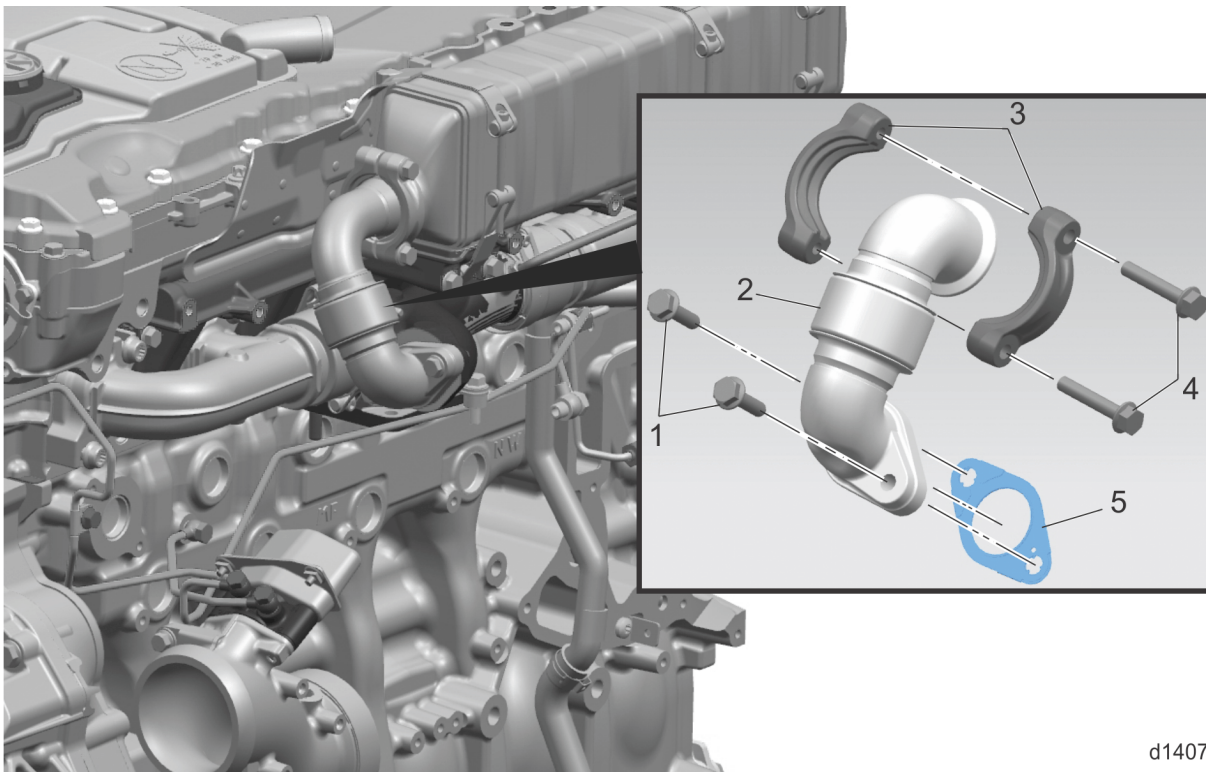
1. Shut off the engine, apply the parking brake, chock the wheels, and perform any other applicable safety steps.



### 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 batteries.
3. Open hood.
4. If needed, remove the right-hand bumper end. Refer to Original Equipment Manufacturer (OEM) procedures.
5. Remove the air cleaner assembly. Refer to Original Equipment Manufacturer (OEM) procedure.
6. Disconnect the coolant level sensor electrical connector.
7. Remove the coolant surge tank mounting bolts and position the surge tank aside.
8. Remove the Exhaust Gas Recirculation (EGR) hot pipe heat shield. Refer to section "Removal of the Exhaust Gas Recirculation Hot Pipe Heat Shield".
9. Remove the Marmon clamp bolts (4) and Marmon clamp shell (3).



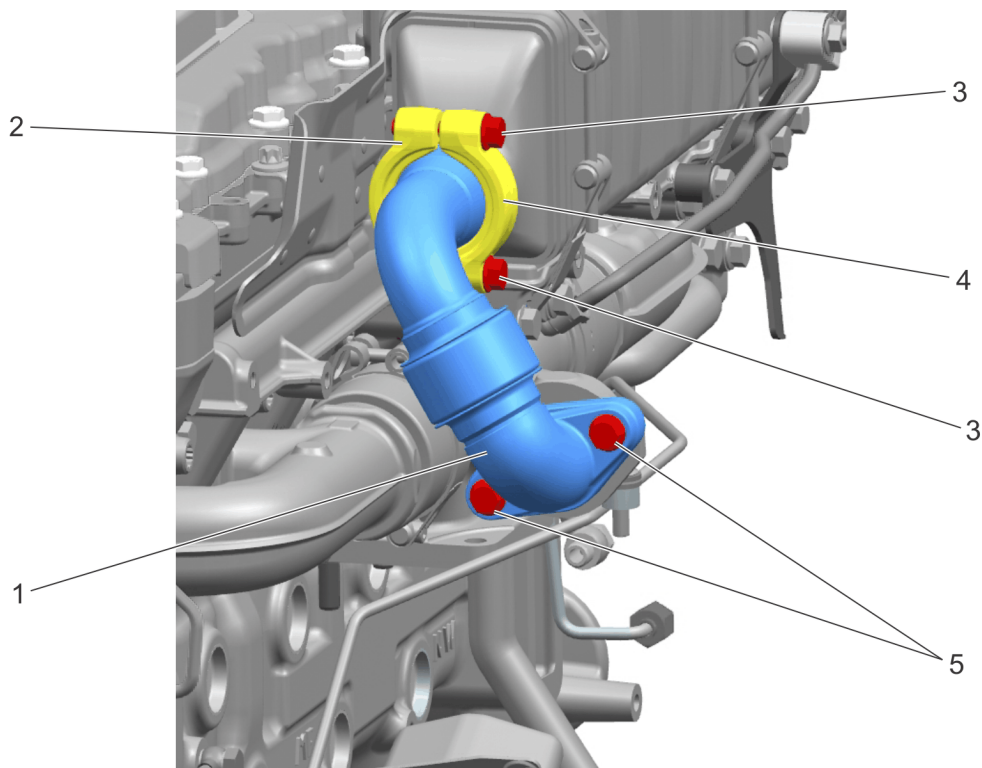
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10. Remove lower EGR hot pipe bolts (1).
11. Remove EGR hot pipe (2). Discard gasket (5).

### 3 Installation of the Exhaust Gas Recirculation Hot Pipe

Install as follows:

**NOTE:** Marmon clamp shell bolts (3) cannot be interchanged with the lower Exhaust Gas Recirculation (EGR) hot pipe retaining bolts (5). The Marmon clamp shell bolts are longer.



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1. Position the Exhaust Gas Recirculation (EGR) hot pipe (1) in place with the inner Marmon clamp (2) and new lower gasket.
2. Position the Marmon clamp so the clamp bolts are horizontal and the shells are vertical. See image above.
3. Apply high temperature copper paste to the two upper mounting bolts (3) and install with the outer Marmon clamp (4). Hand-tighten.
4. Apply high temperature copper paste to the lower EGR hot pipe mounting bolts (5). Hand-tighten.
5. Install the EGR hot pipe heat shield. Refer to section "Installation of the Exhaust Gas Recirculation Hot Pipe Heat Shield".

**NOTICE:** Prior to final torque, verify the Marmon clamp shells are not coming into contact with the EGR hot pipe heat shield.

6. Torque the lower mounting bolts (5) and upper Marmon clamp mounting bolts (3) to 25 N·m (18 lb·ft).
7. Reposition the coolant surge tank and install the mounting bolts. Refer to Original Equipment Manufacturer (OEM) procedures.
8. Connect the coolant level sensor electrical connector.
9. Install the air cleaner assembly. Refer to OEM procedures.
10. If needed, install the bumper end(s). Refer to OEM procedures.



**CAUTION: ELECTRICAL SHOCK**

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

11. Connect the batteries.
12. Close hood.

## 4 Removal of the Exhaust Gas Recirculation Hot Pipe

Remove as follows:

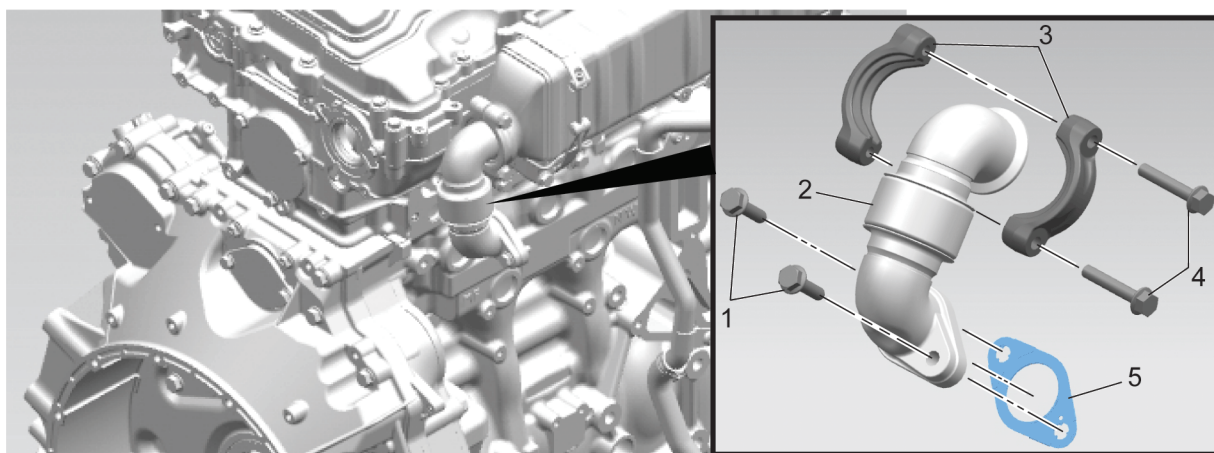
1. Shut off the engine, apply the parking brake, chock the wheels, and perform any other applicable safety steps.



### 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 batteries.
3. Open hood.
4. If needed, remove the bumper end(s). Refer to Original Equipment Manufacturer (OEM) procedures.
5. Remove the air cleaner assembly. Refer to OEM procedures.
6. Remove the Exhaust Gas Recirculation (EGR) hot pipe heat shield.

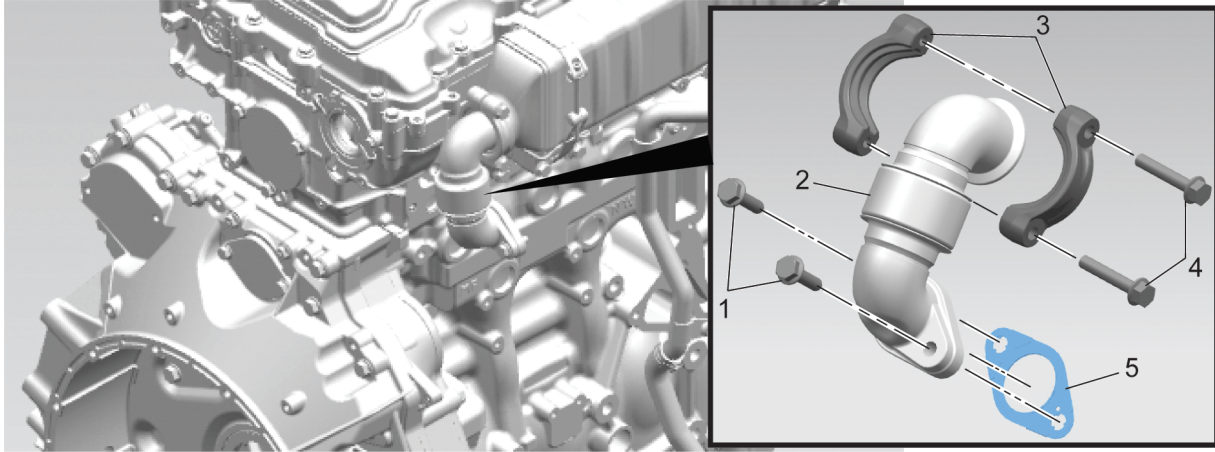


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7. Remove the upper Marmon clamp bolts (4) and outer Marmon clamp shells (3).
8. Remove lower EGR hot pipe bolts (1).
9. Remove EGR hot pipe (2). Discard gasket (5).

## 5 Installation of the Exhaust Gas Recirculation Hot Pipe

**NOTE:** Marmon clamp shell bolts cannot be interchanged with the lower Exhaust Gas Recirculation (EGR) hot pipe retaining bolts. The Marmon clamp shell bolts are longer.



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Install as follows:

1. Position the Exhaust Gas Recirculation (EGR) hot pipe (2) with the inner Marmon clamp and new lower gasket (5).
2. Position the Marmon clamp so the clamp bolts are horizontal and the shells are vertical. See image above.
3. Apply high temperature copper paste to the two upper mounting bolts (4) and install with the outer Marmon clamp. Install and hand-tighten.
4. Apply high temperature copper paste to the two lower EGR hot pipe mounting bolts (1). Install and hand-tighten.
5. Install the EGR hot pipe heat shield. Torque to 25 N·m (18 lb·ft).

**NOTICE:** Prior to final torque, verify the Marmon clamp shells are not coming into contact with the rear engine lifting bracket.

6. Torque the lower EGR hot pipe mounting bolts to 25 N·m (18 lb·ft).
7. Torque the Marmon clamp bolts to 25 N·m (18 lb·ft).
8. Install the air cleaner assembly. Refer to Original Equipment Manufacturer (OEM) procedures.
9. If needed, install the right-hand bumper end. Refer to OEM procedures.



### CAUTION: ELECTRICAL SHOCK

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

10. Connect the batteries.
11. Close hood.