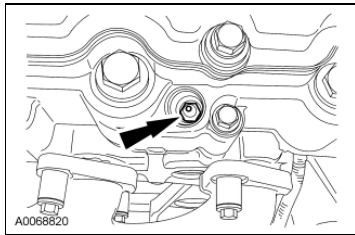


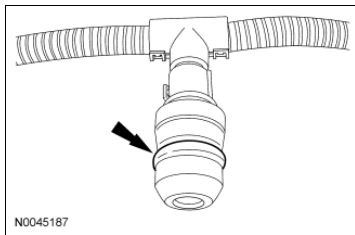
Installation

All vehicles

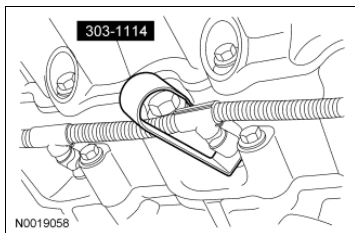
1. Install the glow plug.
 - Tighten to 19 Nm (14 lb-ft).



2. Clean and apply clean engine oil to the O-rings.



3. Using the special tool, install the glow plug harness.



Vehicles equipped with an air compressor

4. If the No. 2 glow plug was serviced, install the air compressor. For additional information, refer to [Section 206-08](#).

Vehicles equipped with 200 amp generator

5. If the No. 1 glow plug was serviced, install the generator. For additional information, refer to [Section 414-02](#).

General Specifications

Item	Specification
SAE 15W-40 Super Duty Motor Oil XO-15W40-QSD or equivalent	WSS-M2C171-D

Torque Specifications

Description	Nm	lb-ft
Exhaust gas recirculation (EGR) valve bolts — 6.0L diesel	13	10
EGR cooler — 6.0L diesel, M6 x 16 flange	13	10
EGR cooler — 6.0L diesel, M6 x 55 x 20 stud bolt	13	10

Engine Emission Control

⚠ CAUTION: Do not remove any part of the engine emission control system. Operating the engine without the engine emission control system will reduce fuel economy and engine ventilation. This will weaken engine performance and shorten engine life.

The 6.0L diesel engine is equipped with an exhaust gas recirculation (EGR) system. The function of the EGR system is to reduce the emission of nitrogen oxide (NO_x).

The engine emission control consists of the following components:

- EGR valve
 - EGR cooler
-

Engine Emission Control

Refer to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.

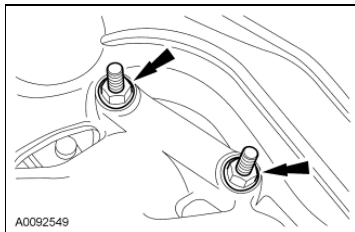
Exhaust Gas Recirculation (EGR) Cooler — 6.0L Diesel

Material

Item	Specification
SAE 15W-40 Super Duty Motor Oil XO-15W40-QSD or equivalent	WSS-M2C171-D

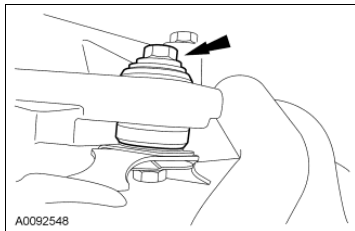
Removal

1. Remove the intake manifold. For additional information, refer to [Section 303-01B](#).
2. Remove the exhaust gas recirculation (EGR) cooler stud bolts.

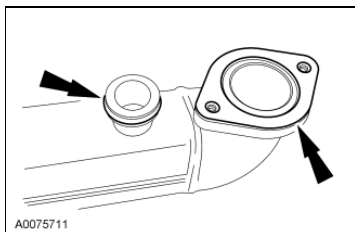


3. **NOTE:** Use care when removing the EGR cooler not to lose the grommets or spacer.

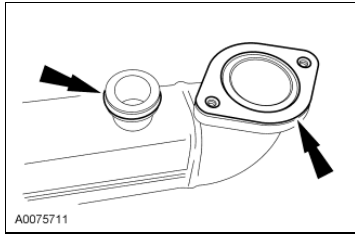
Remove the bolt and the EGR cooler.



4. Remove and discard the gasket and O-ring seal.

**Installation**

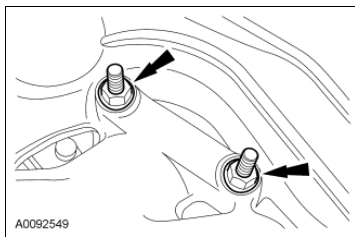
1. Install a new gasket and O-ring seal.



2. **NOTE:** Apply clean engine oil to the O-ring seal.

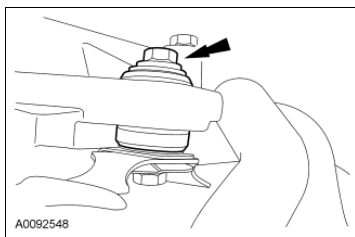
NOTE: Position the grommets and spacer prior to installing the EGR cooler.

Position the EGR cooler and install the stud bolts finger tight.



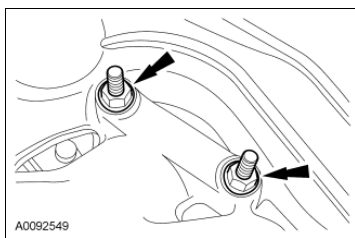
3. Install the EGR cooler bolt.

- Tighten to 13 Nm (10 lb-ft).



4. Tighten the EGR cooler stud bolts.



- Tighten to 13 Nm (10 lb-ft).



5. Install the intake manifold. For additional information, refer to [Section 303-01B](#) .

Exhaust Gas Recirculation (EGR) Valve — 6.0L Diesel

Special Tool(s)

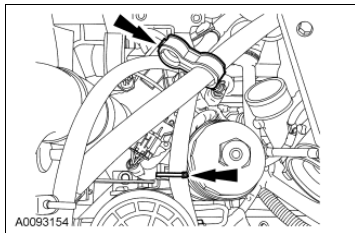
	Puller, Exhaust Gas Recirculation (EGR) Valve 303-1114
	Injector Sleeve Brush Set 303-DS110 (D94T-9000-D) or equivalent

Material

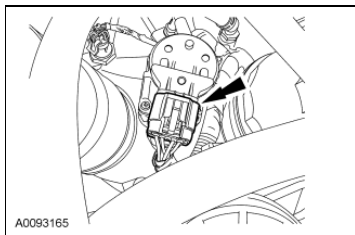
Item	Specification
SAE 15W-40 Super Duty Motor Oil XO-15W40-QSD or equivalent	WSS-M2C171-D

Removal

1. Position the heater hose and wiring harness aside.

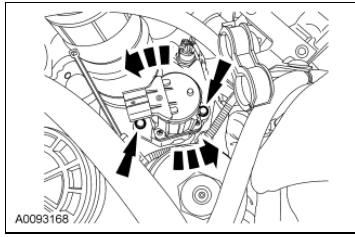


2. Disconnect the exhaust gas recirculation (EGR) valve electrical connector.

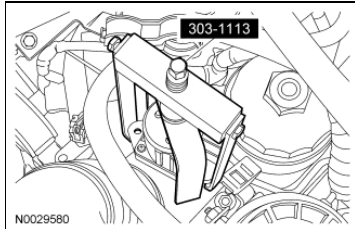


3. **⚠ CAUTION: Do not pull the EGR valve out or damage to the EGR valve can occur.**

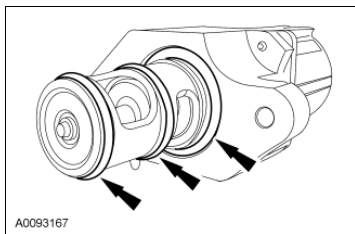
Remove the bolts and rotate the EGR valve counterclockwise.



4. Using the special tool, remove the EGR valve.



5. Remove and discard the EGR valve O-ring seals.

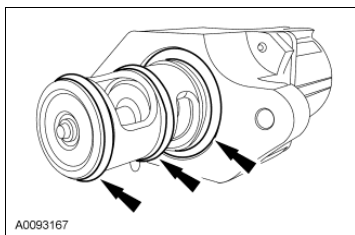


6. Using an appropriate brush, clean the EGR port. Vacuum out the ash and foreign materials from inside the intake manifold.

Installation

1. **NOTE:** Lubricate the O-rings with clean engine oil.

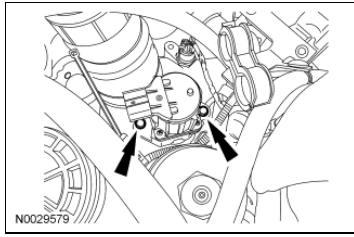
Install new O-ring seals on the EGR valve.



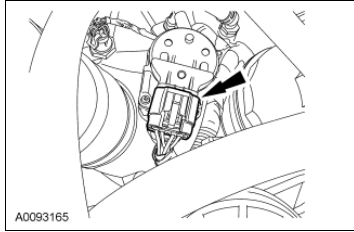
2. **⚠ CAUTION:** Failing to completely seat the EGR valve into the intake manifold before inserting the mounting bolts may result in engine damage.

Install the EGR valve and bolts.

- Tighten to 13 Nm (10 lb-ft).



3. Connect the EGR electrical connector.



4. Position back and secure the heater hose and wiring harness.

