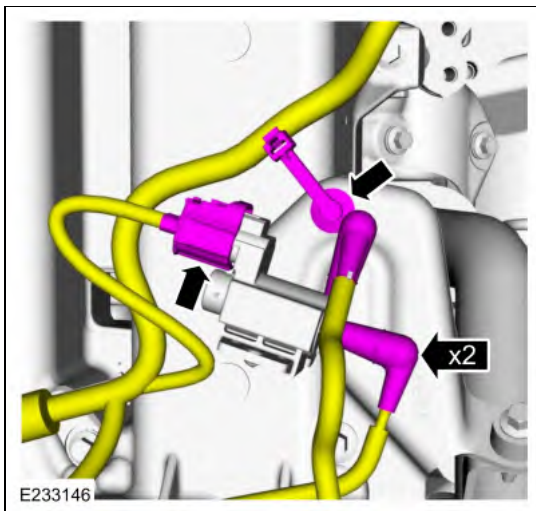


Exhaust Manifold RH

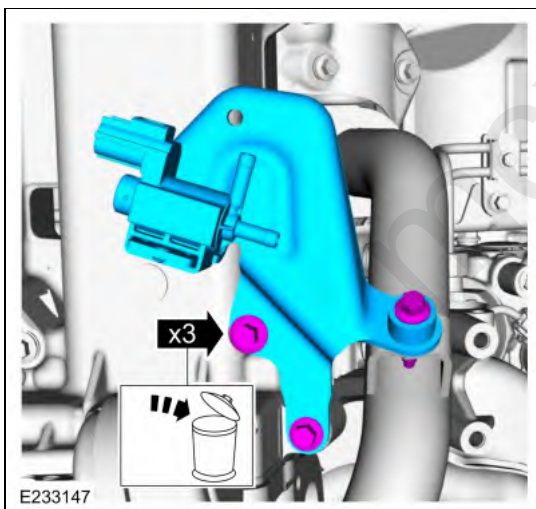
Removal

NOTE: For EXPORT ONLY vehicles (outside US/Canada) an Export Supplement is provided and should be referenced to identify differences that can impact service procedures. Vehicles can be identified by referring to the underhood Vehicle Emission Control Information (VECI) label which states, "Not certified for US EPA or CARB Regulations".

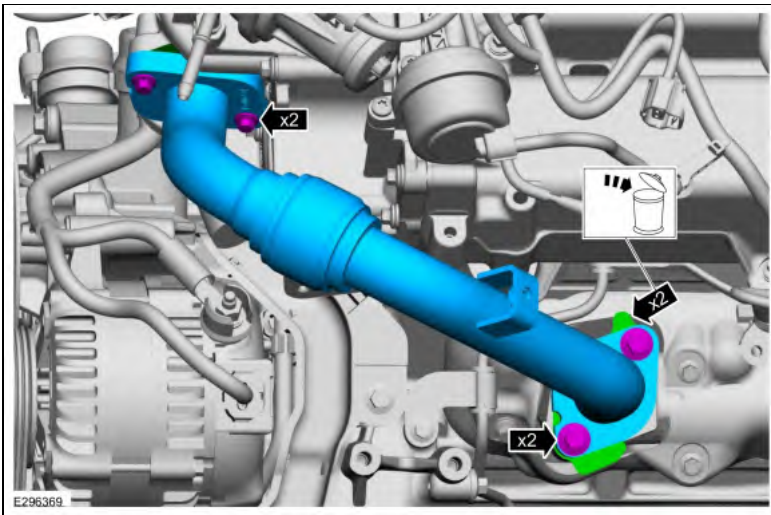
1. Remove the turbocharger.
Refer to: Turbocharger (303-04C Fuel Charging and Controls - Turbocharger - 6.7L Power Stroke Diesel, Removal and Installation).
2. Disconnect the electrical connector and the vacuum hoses from the EGR bypass valve solenoid. Detach the wire harness retainer.



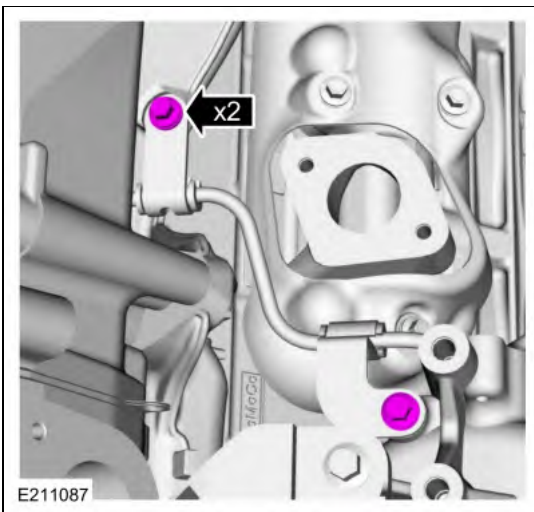
3.
 - Remove the bolts and the EGR cooler inlet tube bracket.
 - Discard the bolts.



4.
 - Remove the bolts and the EGR cooler inlet tube.
 - Remove and discard the gaskets.

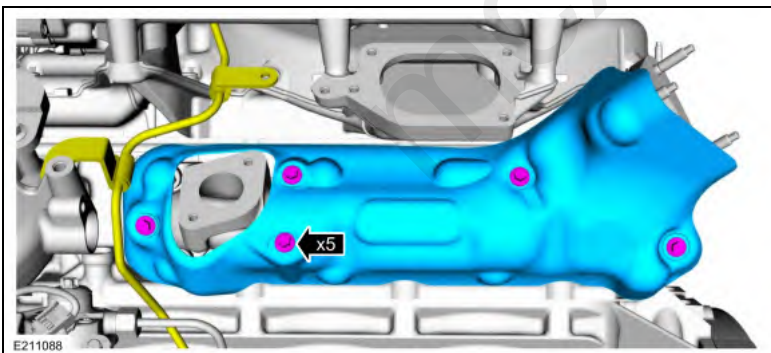


5. Remove the fuel rail supply tube bracket bolts.

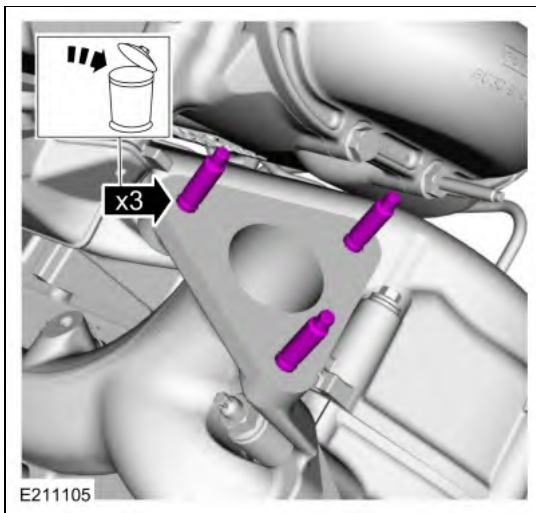


6. **NOTE:** It will be necessary to flex the fuel tube toward the front of the vehicle in order to remove the exhaust manifold heat shield.

Remove the bolts and the RH exhaust manifold heat shield.

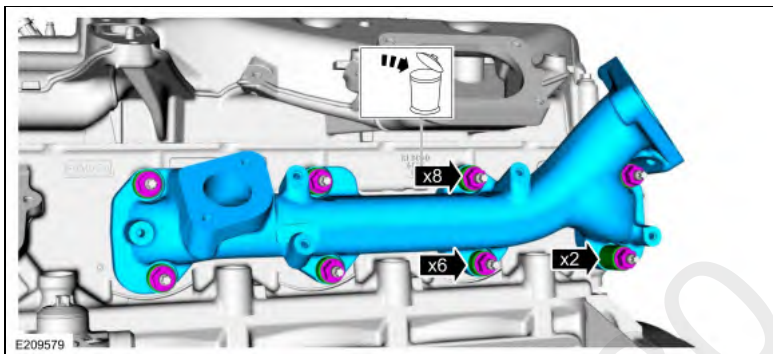


7. Remove and discard the exhaust manifold studs.



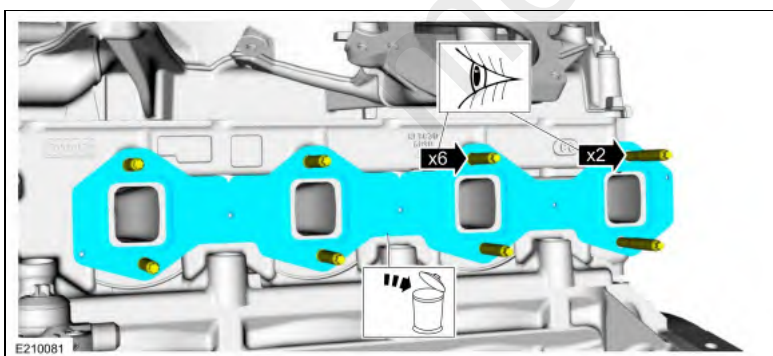
8. **NOTE:** Mark the location of the spacers before removal.

- Remove the nuts, the spacers and the RH exhaust manifold.
- Discard the nuts.



9. **NOTE:** Cylinder number 4 will have longer exhaust manifold studs.

- Remove and discard the exhaust manifold gasket.
- Replace any exhaust manifold stud(s) that are damaged or removed with the nut.



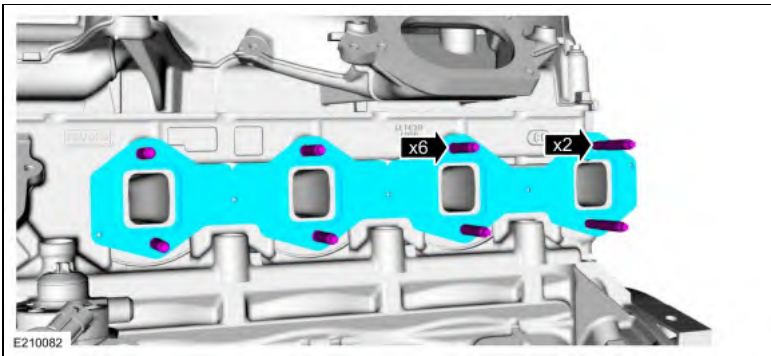
Installation

1. **NOTE:** Cylinder number 4 will have longer exhaust manifold studs.

- Install the new exhaust manifold stud(s) as needed.

Torque: 115 lb.in (13 Nm)

- Install a new exhaust manifold gasket.



2. **NOTE:** Install the spacers as marked on removal.

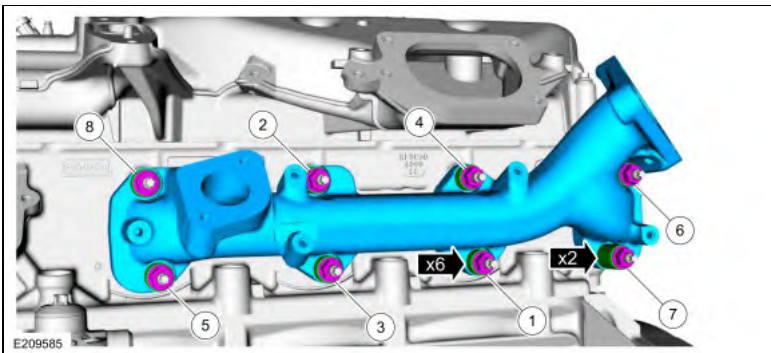
Install the RH exhaust manifold, the spacers and the new nuts.

Torque:

Stage 1: 159 lb.in (18 Nm)

Stage 2: 18 lb.ft (25 Nm)

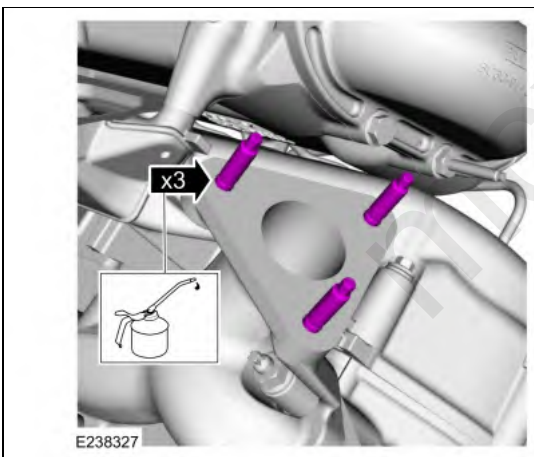
Stage 3: Tighten a second time to : 18 lb.ft (25 Nm)



3. Apply clean engine oil to the threads and install the exhaust manifold studs.

Refer to: Specifications (303-01B Engine - 6.7L Power Stroke Diesel, Specifications).

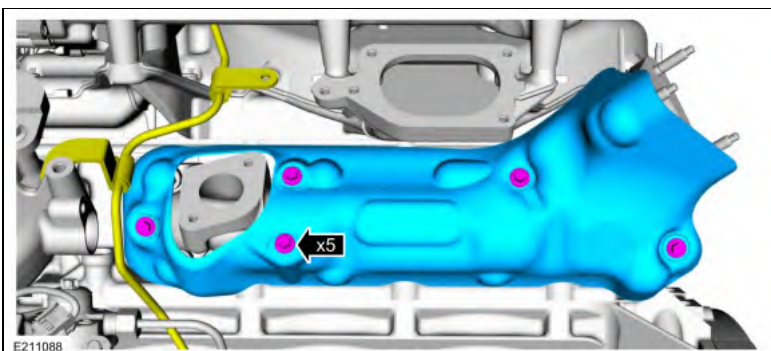
Torque: 115 lb.in (13 Nm)



4. **NOTE:** It will be necessary to flex the fuel tube toward the front of the vehicle in order to install the exhaust manifold heat shield.

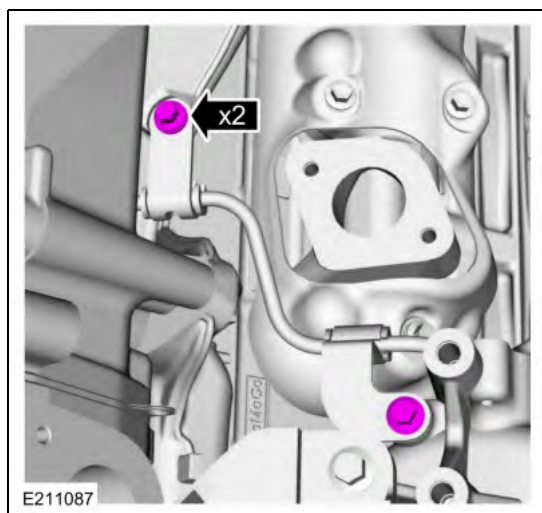
Install the RH exhaust manifold heat shield and the bolts.

Torque: 89 lb.in (10 Nm)



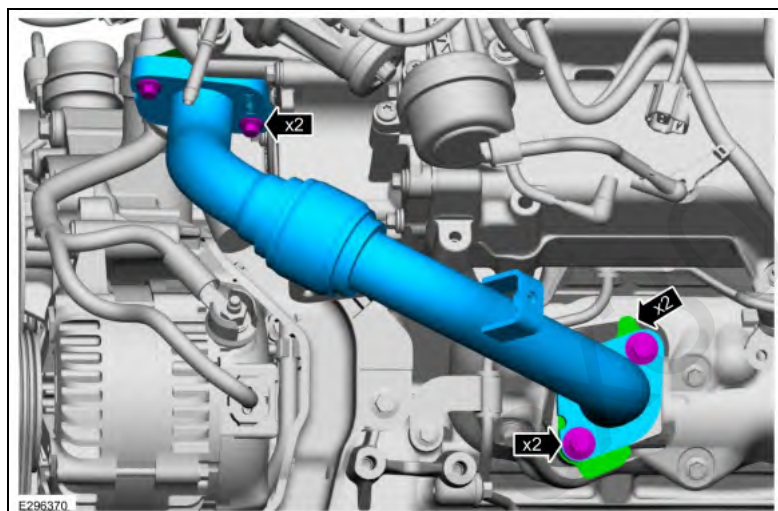
5. Install the fuel rail supply tube bracket bolts.

Torque: 89 lb.in (10 Nm)



6.

- Using new gaskets, install the EGR cooler inlet tube and the bolts.
- Tighten the bolts at the exhaust manifold.
Torque: 177 lb.in (20 Nm)
- Tighten the bolts at the EGR cooler.
Torque: 89 lb.in (10 Nm)



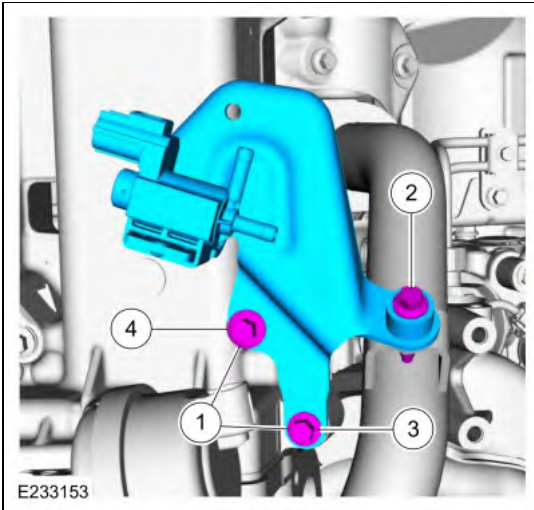
7.

1. Install the EGR cooler inlet tube bracket and hand start the bolts.
2. Install the bolt.
Torque:
Stage 1: 89 lb.in (10 Nm)
Stage 2: 45 Å°
3. Tighten the bolt.
Torque:
Stage 1: 89 lb.in (10 Nm)
Stage 2: 45 Å°
4. Tighten the bolt.

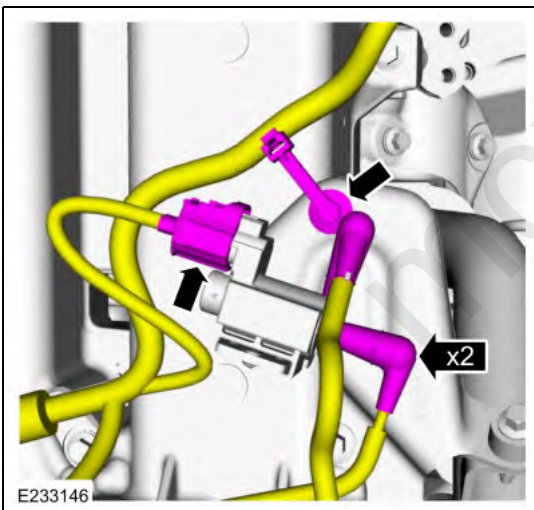
Torque:

Stage 1: 89 lb.in (10 Nm)

Stage 2: 45 Å°



8. Connect the electrical connector and the vacuum tubes to the EGR bypass valve solenoid. Attach the wire harness retainer.



9. Install the turbocharger.

Refer to: Turbocharger (303-04C Fuel Charging and Controls - Turbocharger - 6.7L Power Stroke Diesel, Removal and Installation).