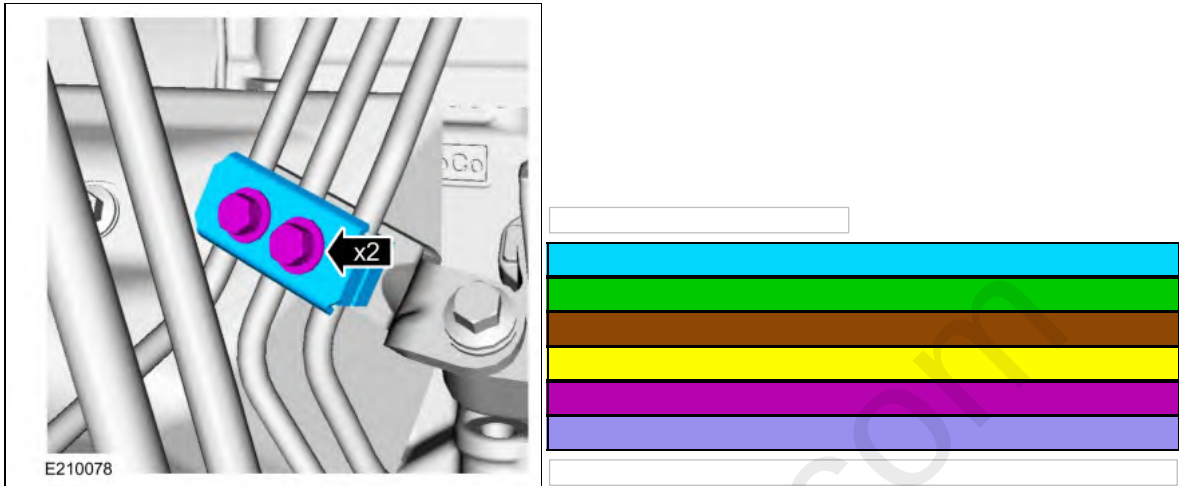


Exhaust Manifold LH

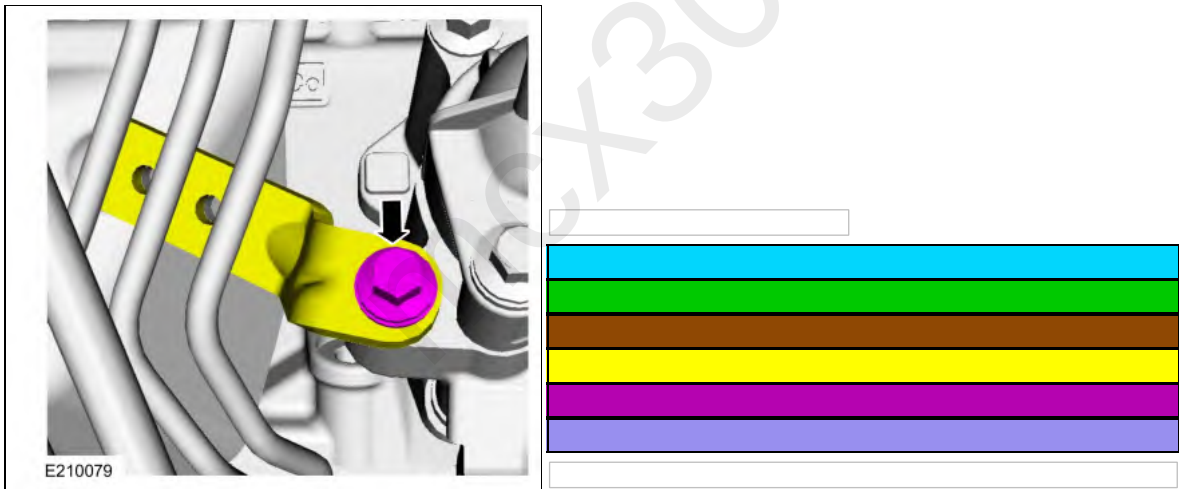
Removal

1. Remove the following items:
1. Remove the turbocharger.
Refer to: Turbocharger (303-04C Fuel Charging and Controls - Turbocharger - 6.7L Power Stroke Diesel, Removal and Installation).

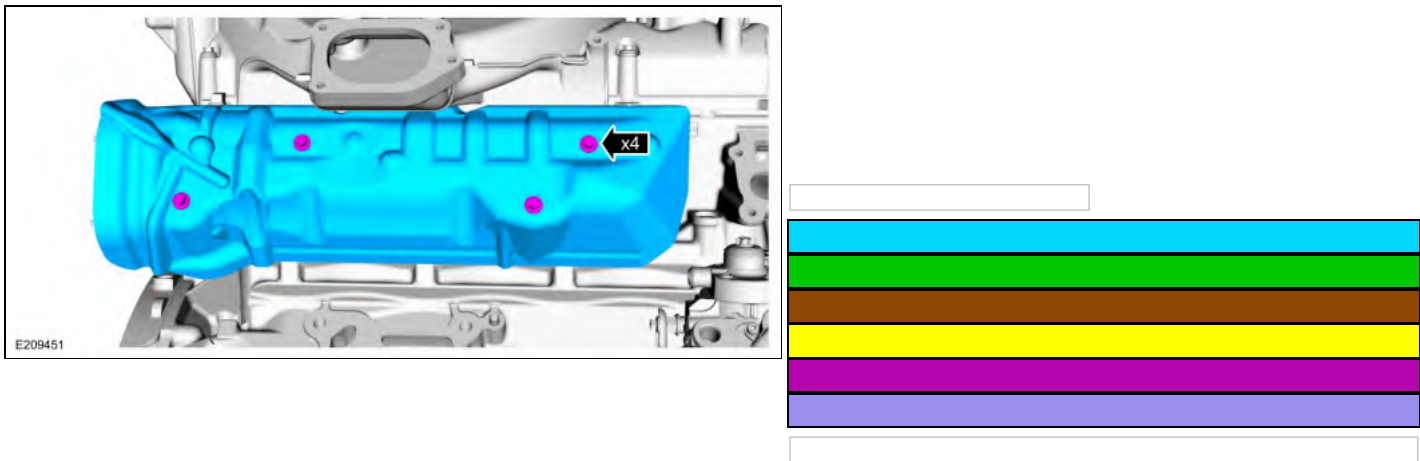
2. Remove the turbocharger inlet pipe LH.
Refer to: Turbocharger Inlet Pipe LH (309-00B Exhaust System - 6.7L Power Stroke Diesel, Removal and Installation).
2. Remove the bolts, the upper bracket and the fuel tube isolators.



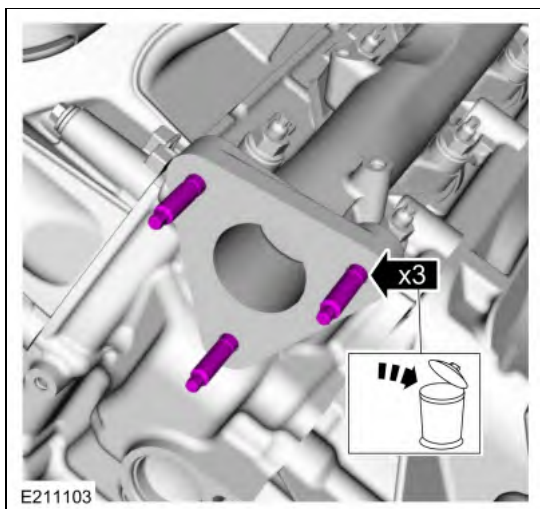
3. **NOTE:** Mark the location of the bracket before loosening the bolt.
- Loosen the bolt and position the fuel tube bracket aside.



4. Remove the bolts and the LH exhaust manifold heat shield.

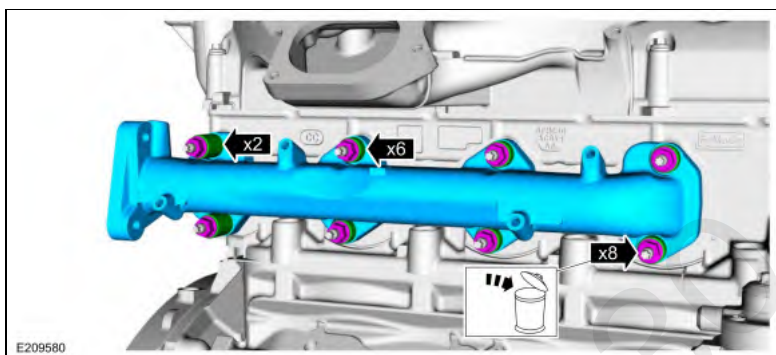


5. Remove and discard the exhaust manifold studs.



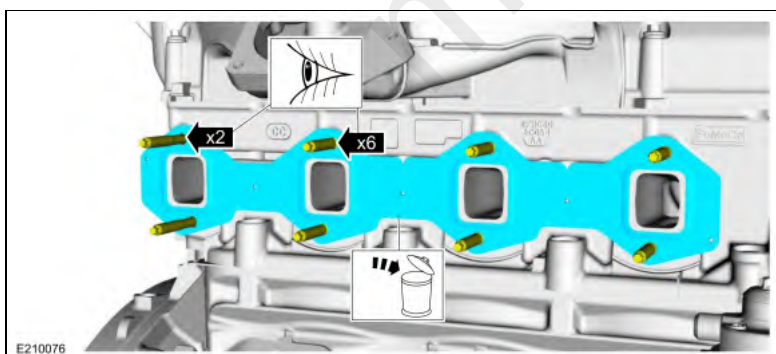
6. **NOTE:** Mark the location of the spacers before removal.

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



7. **NOTE:** Cylinder number 8 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.



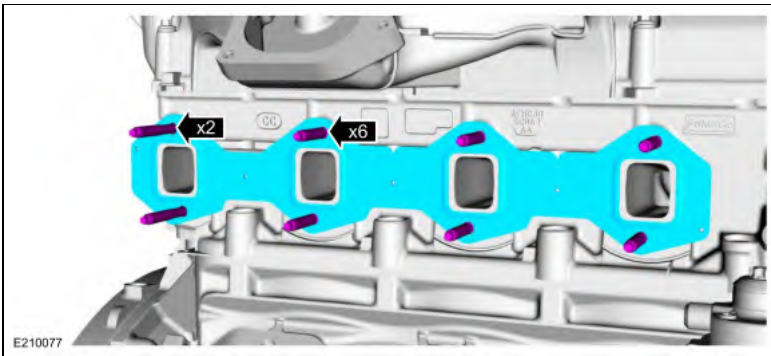
Installation

1. **NOTE:** Cylinder number 8 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.

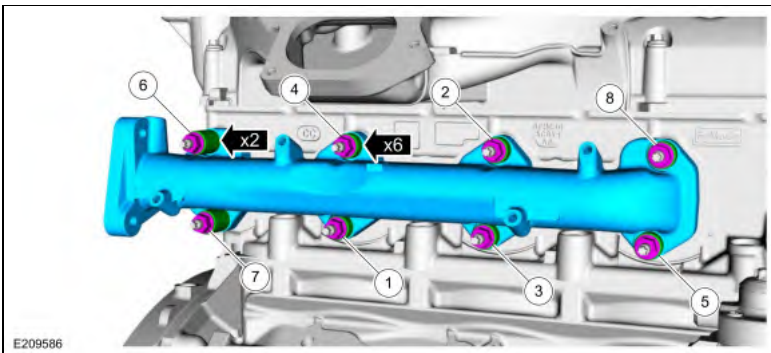
Install the LH exhaust manifold, the spacers and the new nuts.

Torque:

Stage 1: 159 lb.in (18 Nm)

Stage 2: 18 lb.ft (25 Nm)

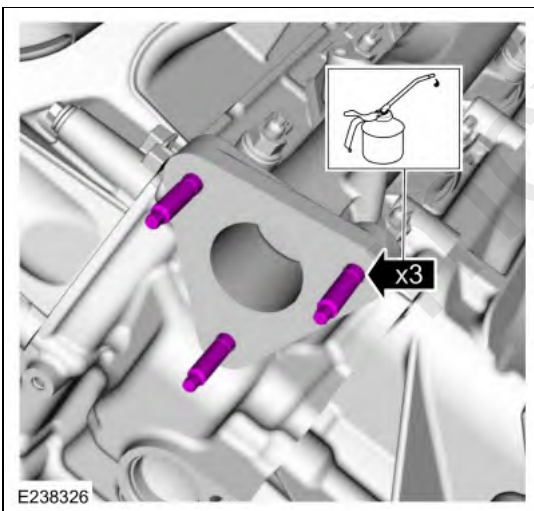
Stage 3: Tighten a second time to : 18 lb.ft (25 Nm)



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

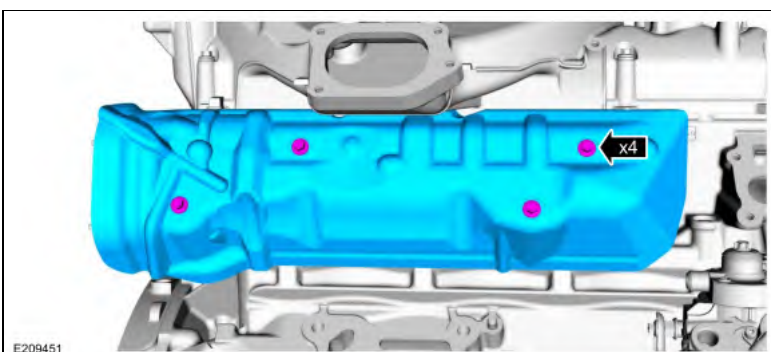
Refer to: Specifications (303-01B Engine - 6.7L Power Stroke Diesel, Specifications).

Torque: 115 lb.in (13 Nm)

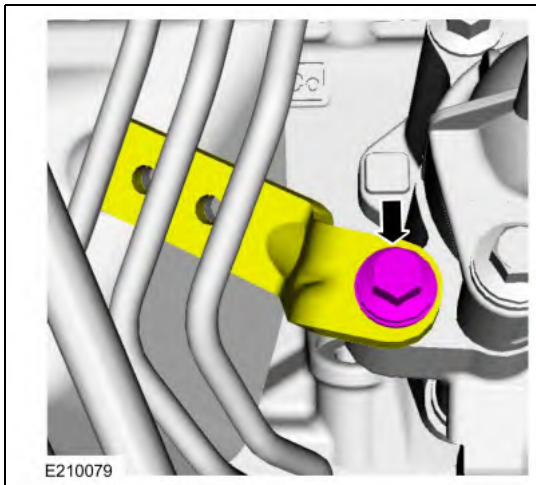


4. Install the LH exhaust manifold heat shield and the bolts.

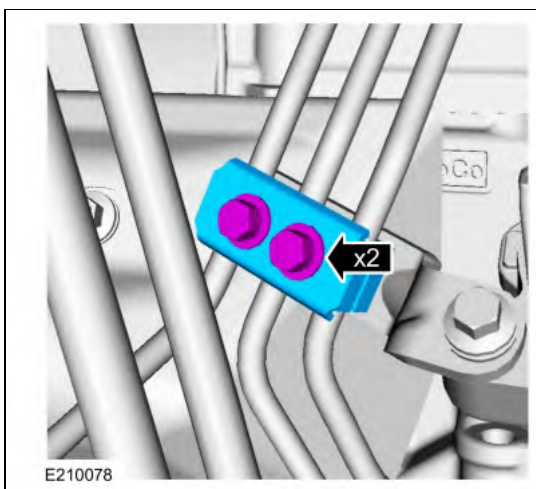
Torque: 89 lb.in (10 Nm)



5. Position back the fuel tube bracket and tighten the bolt.
Torque: 89 lb.in (10 Nm)



6. Install the fuel tube isolators, the upper bracket and install the bolts.



7. Install the following items:
1. Install the turbocharger inlet pipe LH.
Refer to: Turbocharger Inlet Pipe LH (309-00B Exhaust System - 6.7L Power Stroke Diesel, Removal and Installation).
 2. Install the turbocharger.
Refer to: Turbocharger (303-04C Fuel Charging and Controls - Turbocharger - 6.7L Power Stroke Diesel, Removal and Installation).