

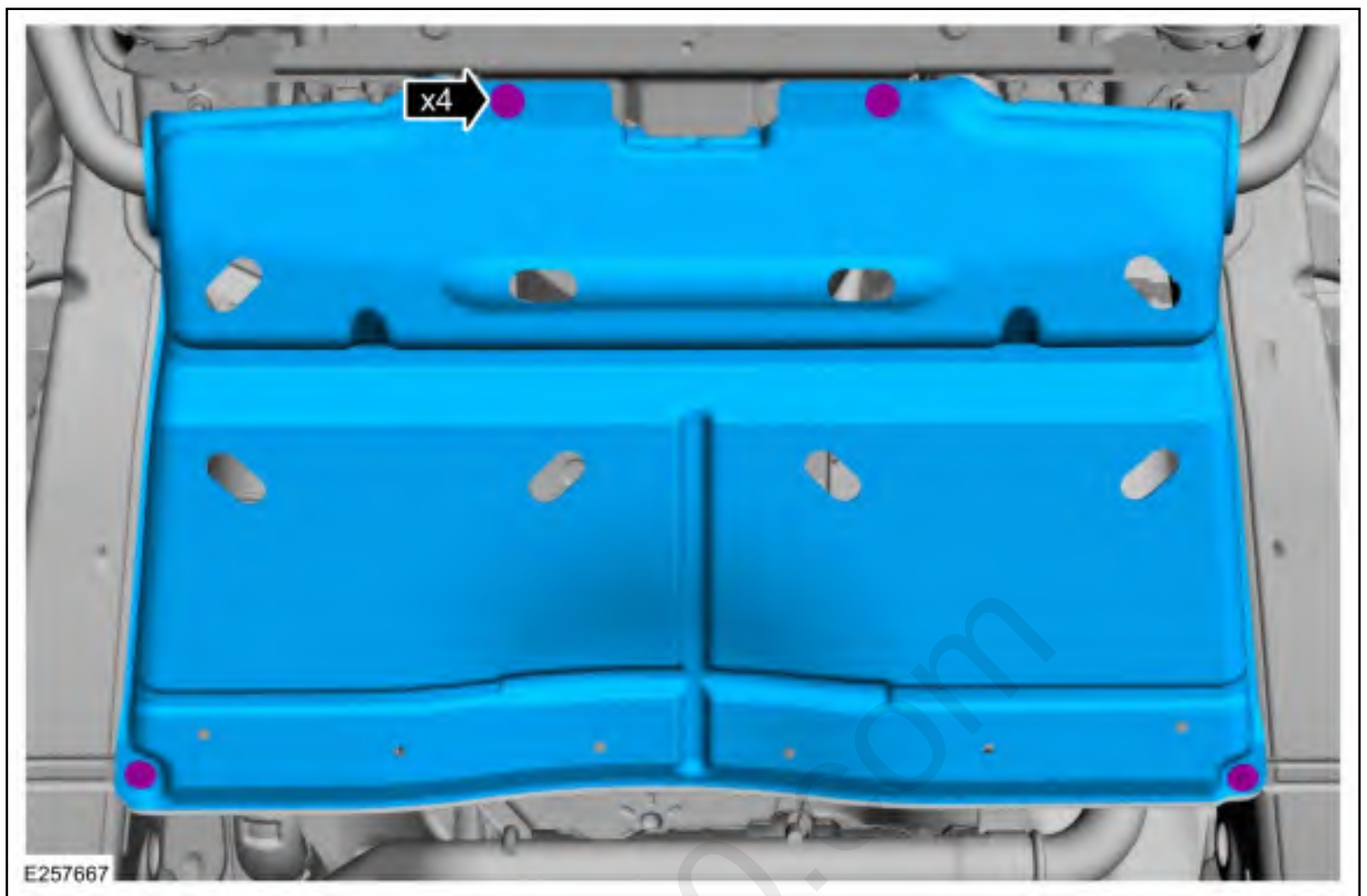
## Exhaust Manifold RH

Base Part Number: Base Part Number: 9431

### Removal

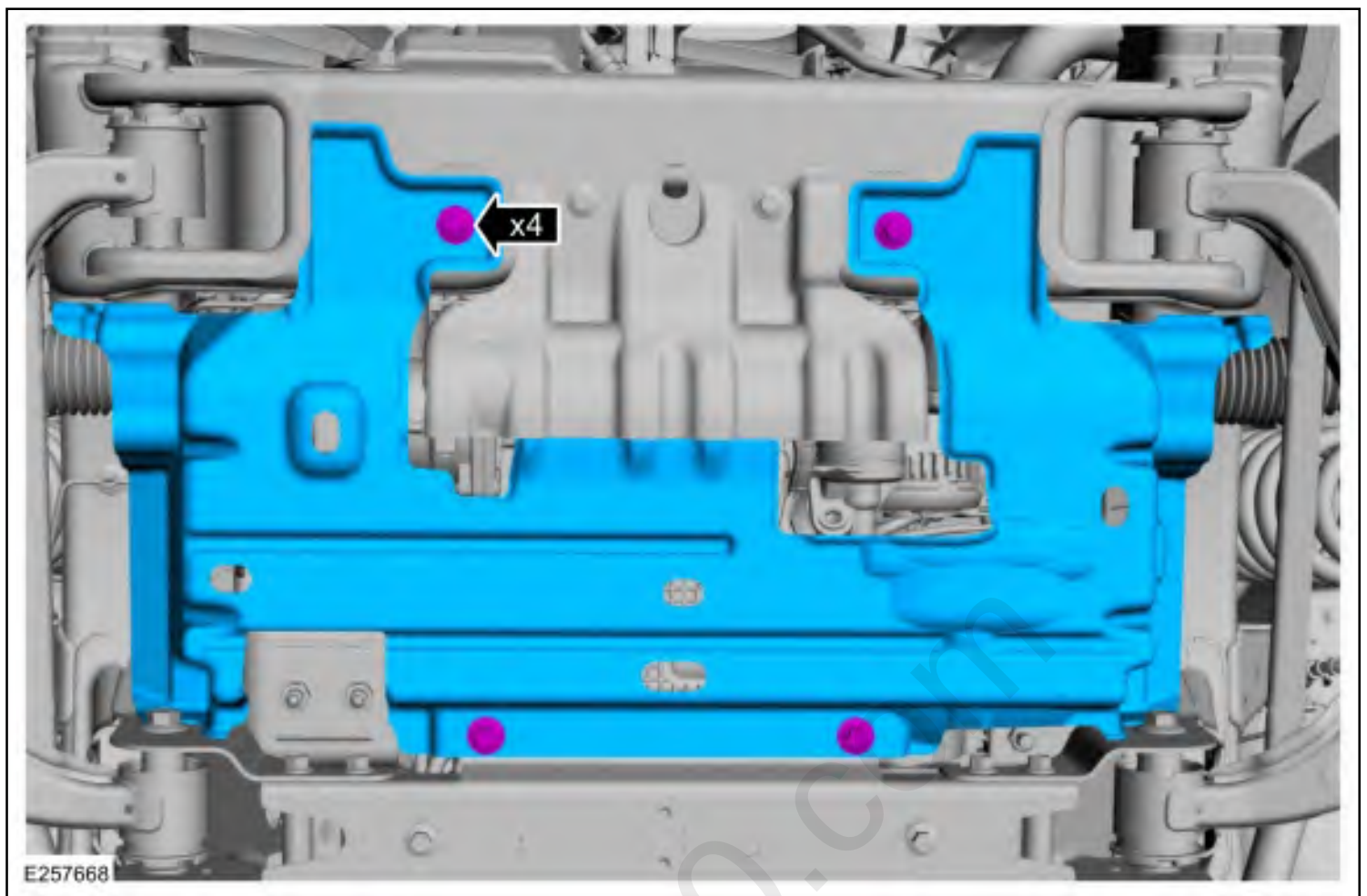
1. With the vehicle in NEUTRAL, position it on a hoist.  
Refer to: [Jacking and Lifting - Overview](#) (100-02 Jacking and Lifting, Description and Operation).
2. Disconnect the battery ground cable.  
Refer to: Battery Disconnect and Connect (414-01 Battery, Mounting and Cables) .
3. **NOTE:** *If equipped.*

Remove the bolts and the underbody shield.



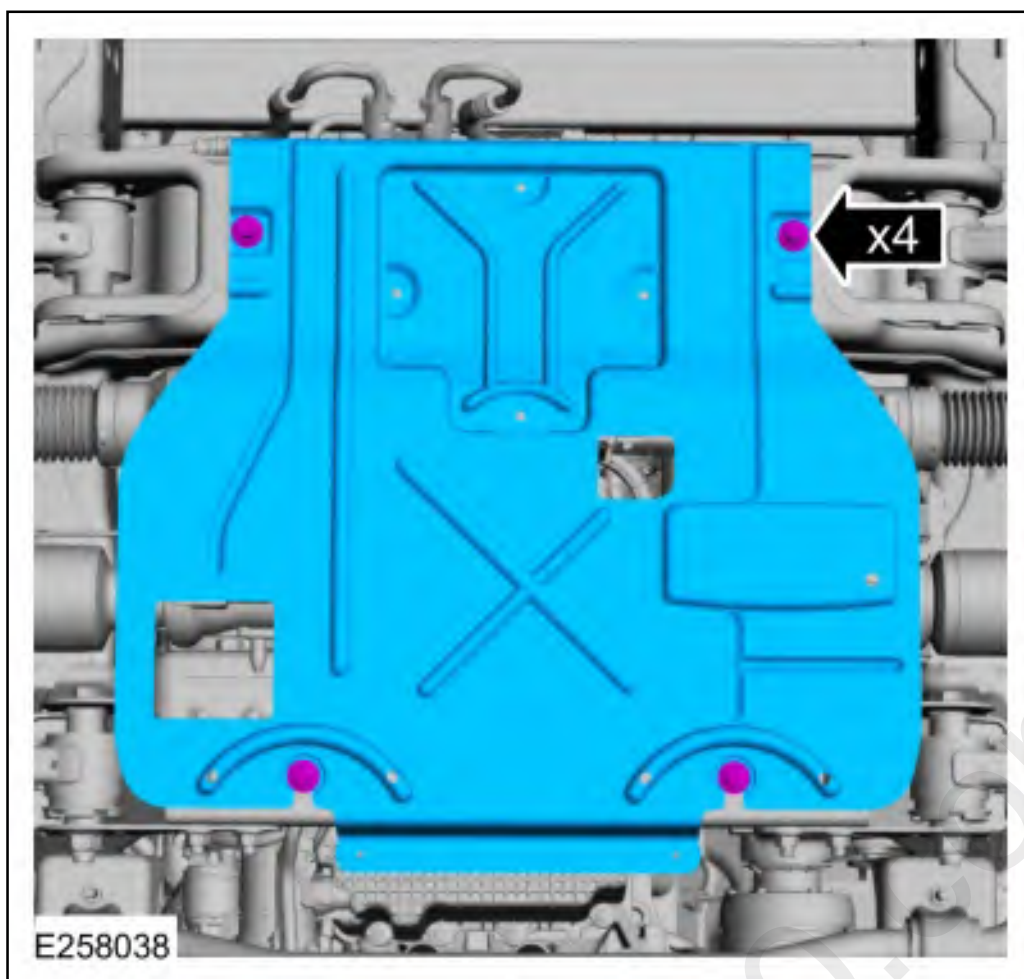
4. **NOTE:** *If equipped.*

Remove the bolts and the underbody shield.



5. **NOTE:** *If equipped.*

Remove the bolts and the skid plate.



6. Remove the following items:

1. RH wheel and tire.

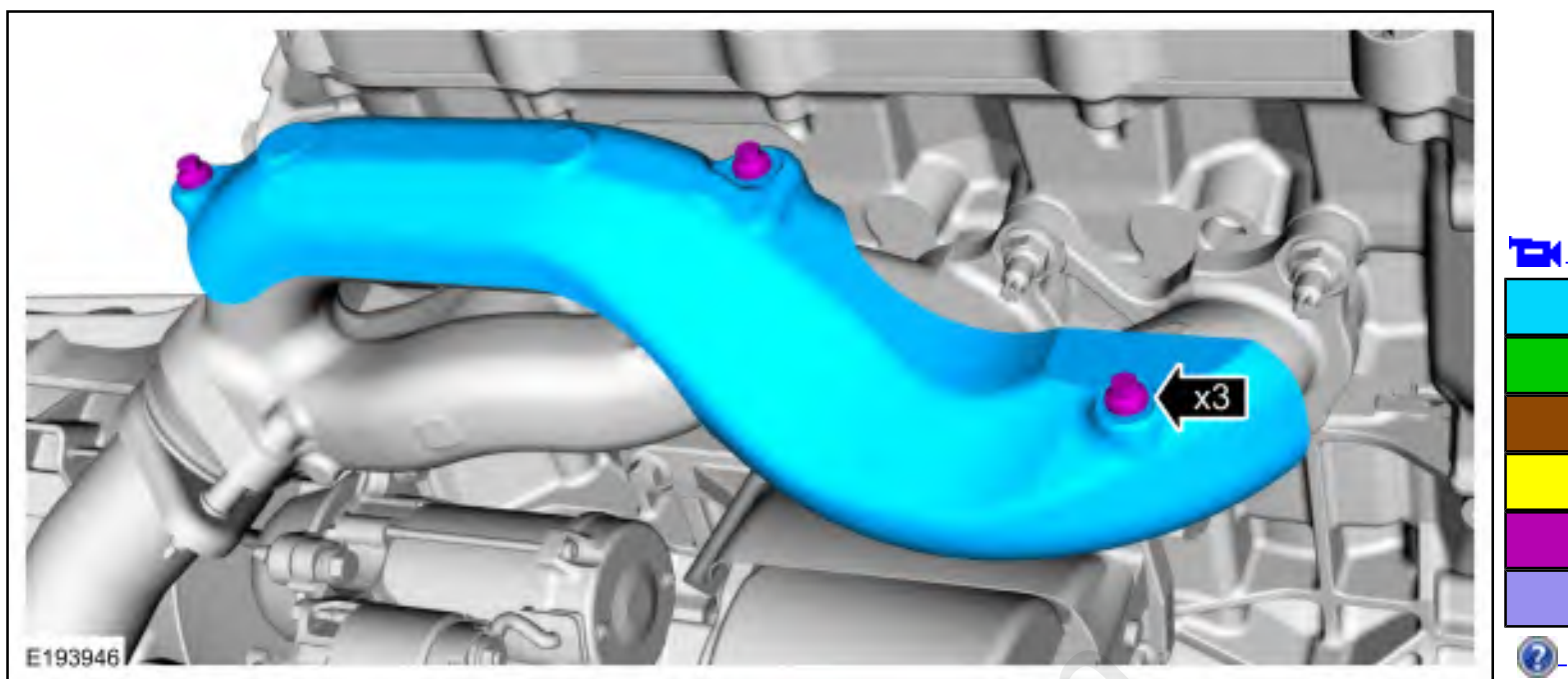
Refer to: [Wheel and Tire](#) (204-04A Wheels and Tires, Removal and Installation).

2. RH fender splash shield.

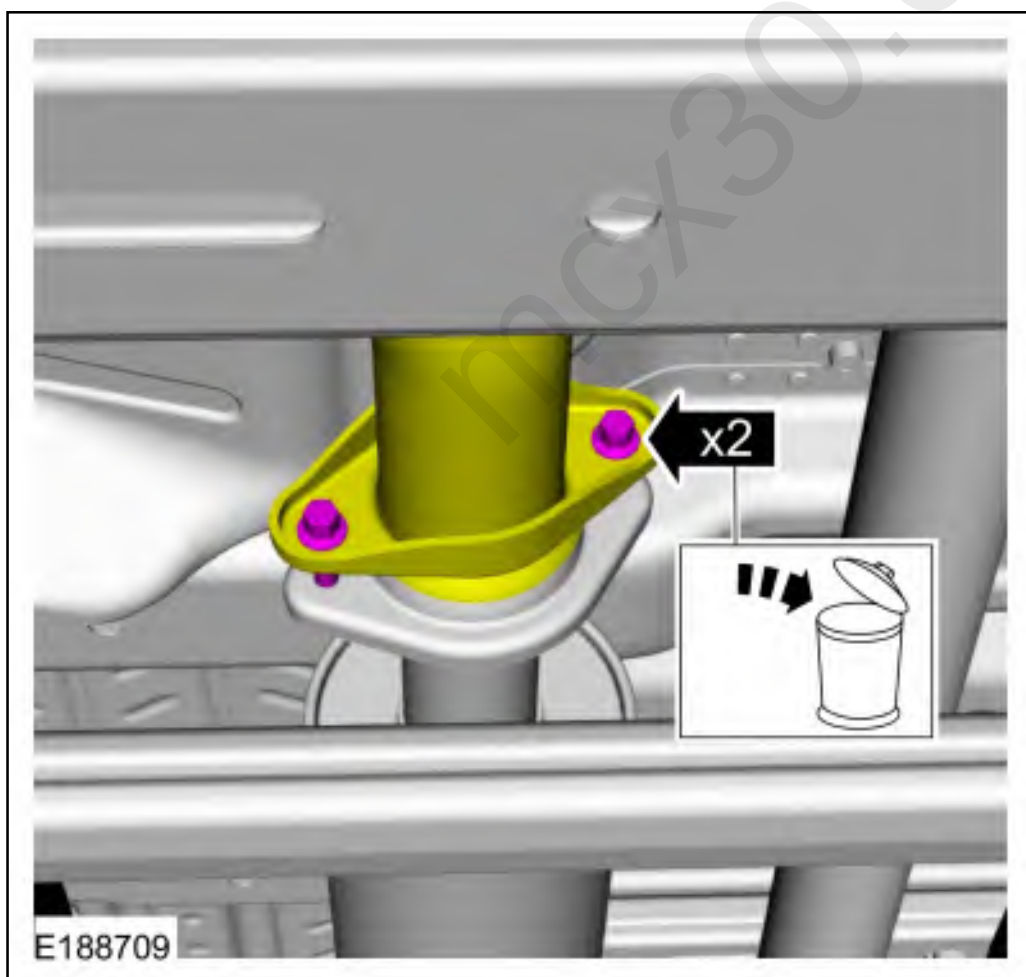
Refer to: [Fender Splash Shield](#) (501-02 Front End Body Panels, Removal and Installation).

3. Refer to: Air Conditioning (A/C) Compressor - 5.0L 32V Ti-VCT (412-00 Climate Control System - General Information) .

7. Remove the bolts and the RH exhaust manifold heat shield.

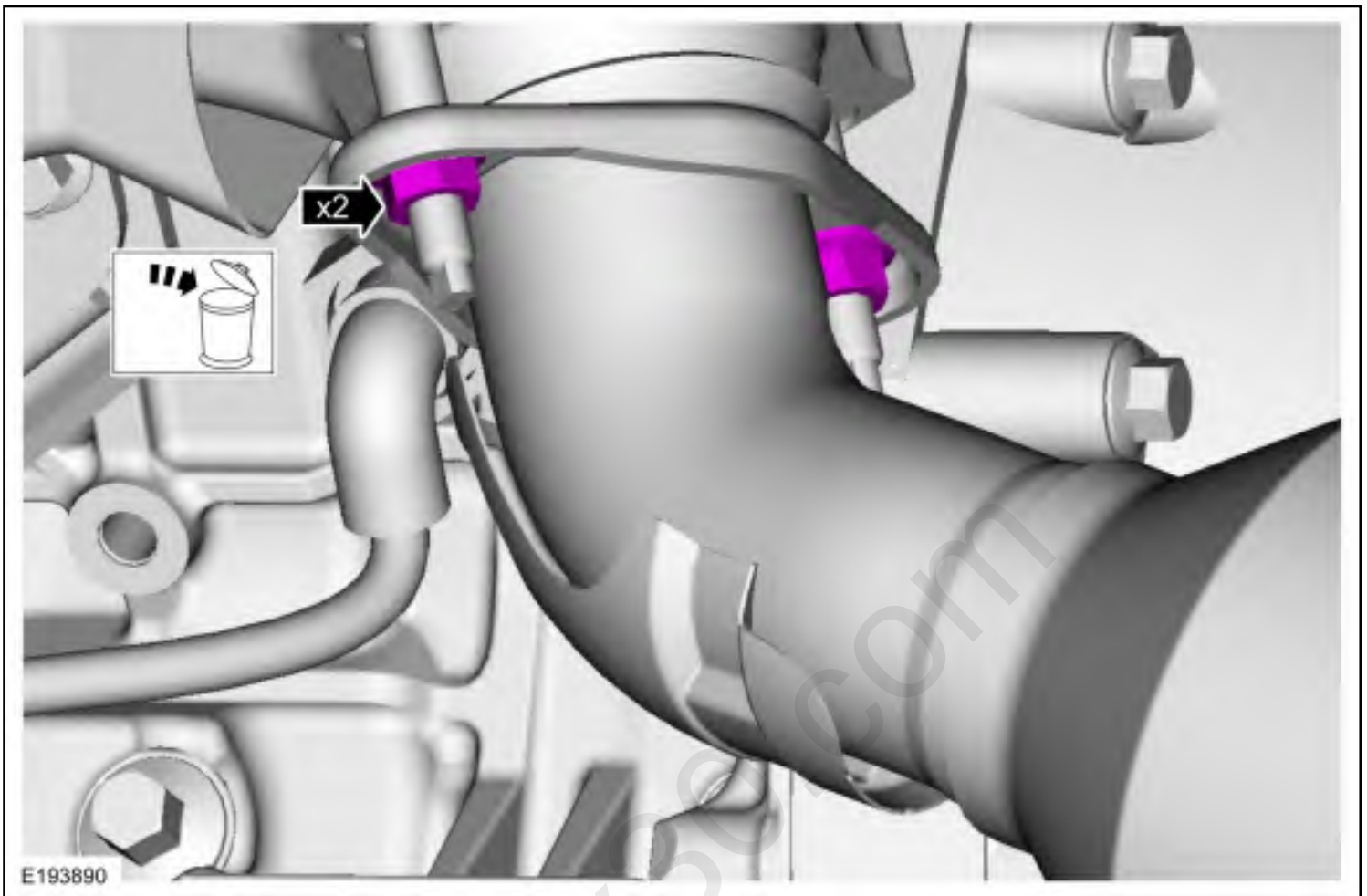


8. Remove and discard the exhaust Y-pipe dual catalytic converter-to-exhaust intermediate pipe bolts.
- Separate the pipe from the converter.
  - Clean the exhaust mating surfaces.



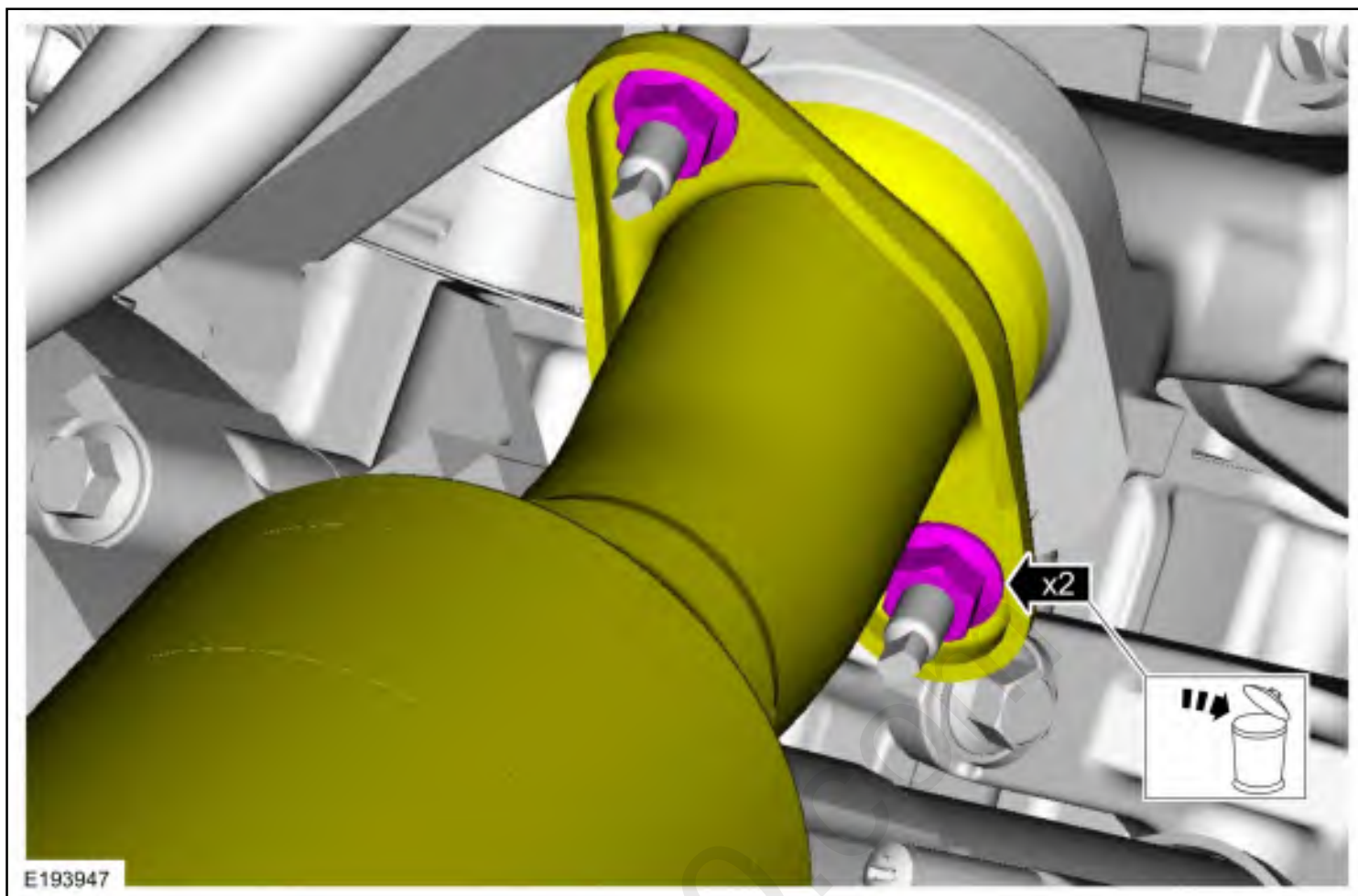


9. Remove and discard the catalytic converter-to-LH exhaust manifold nuts.

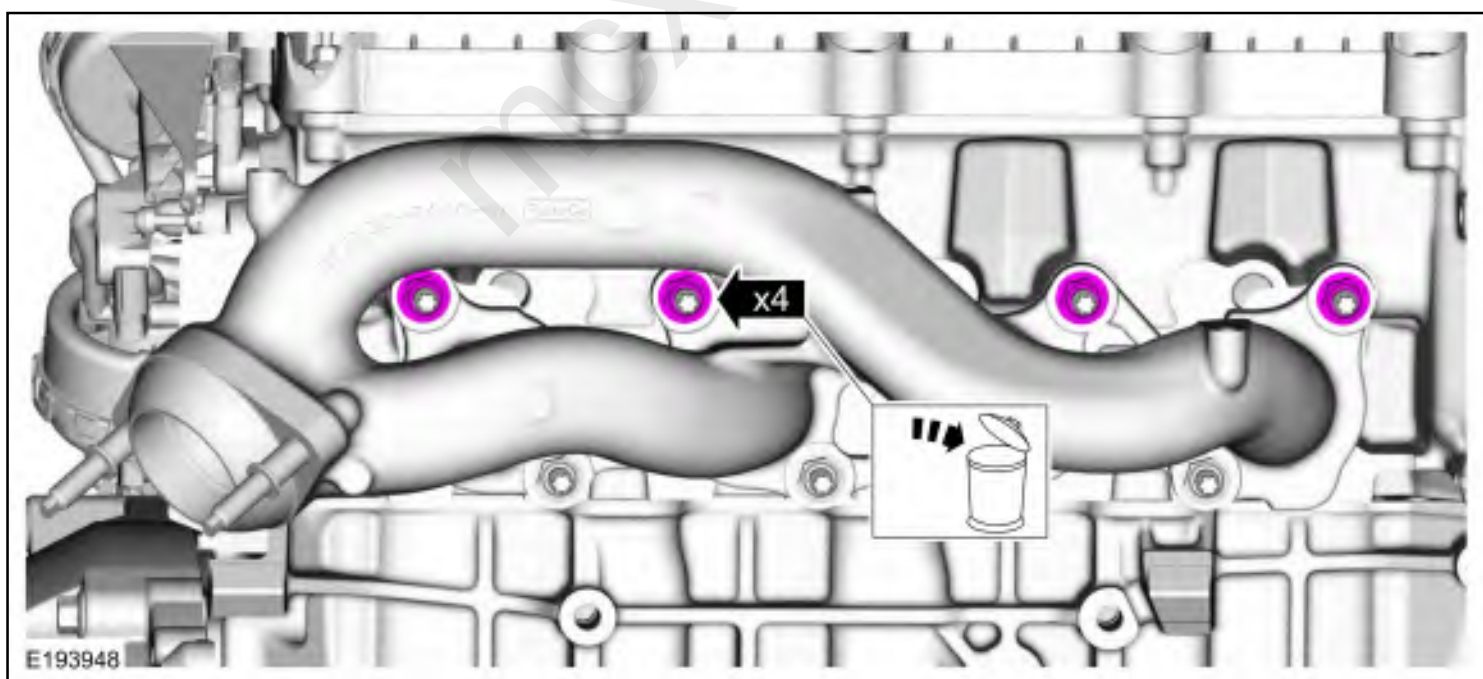


10. Remove and discard the catalytic converter-to-RH exhaust manifold nuts.

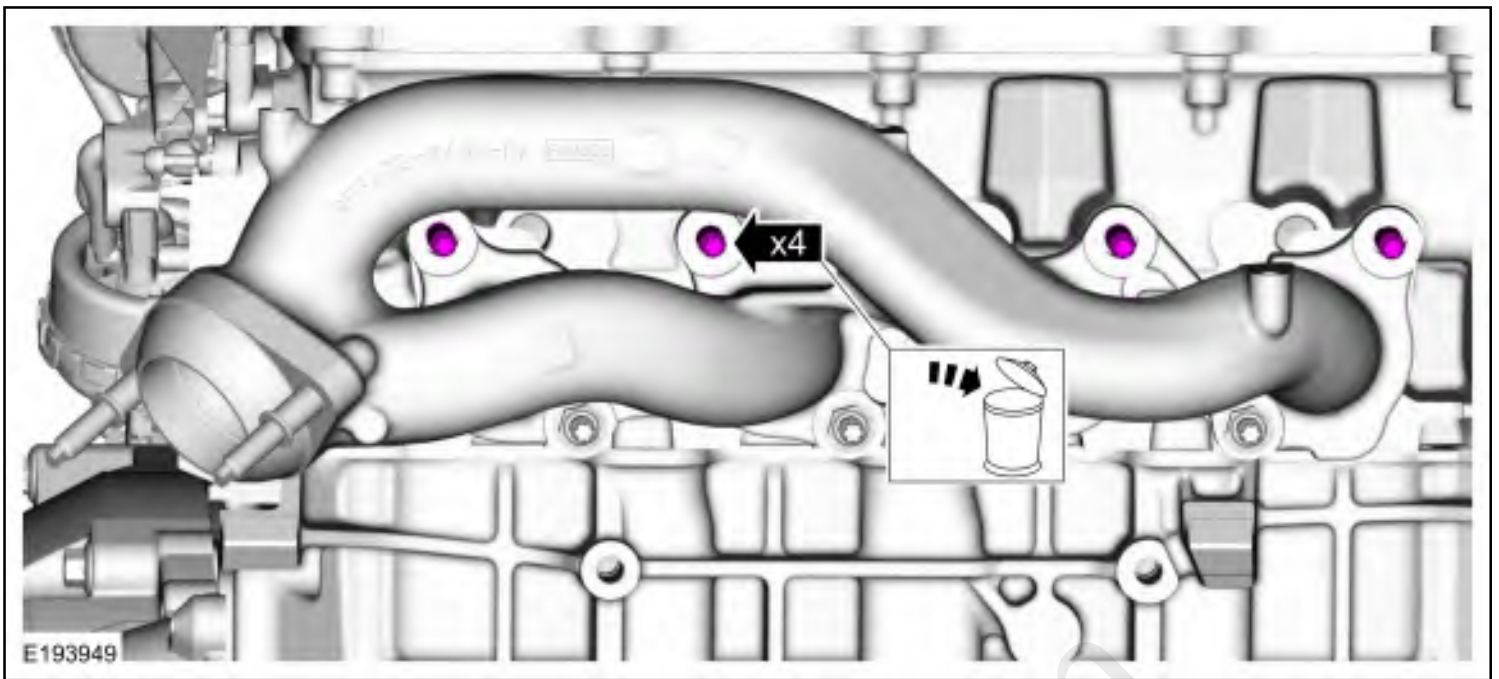
- Separate the exhaust Y-pipe dual catalytic converter from the exhaust manifolds.
- Clean the exhaust mating surfaces.



11. Remove and discard the RH exhaust manifold nuts.



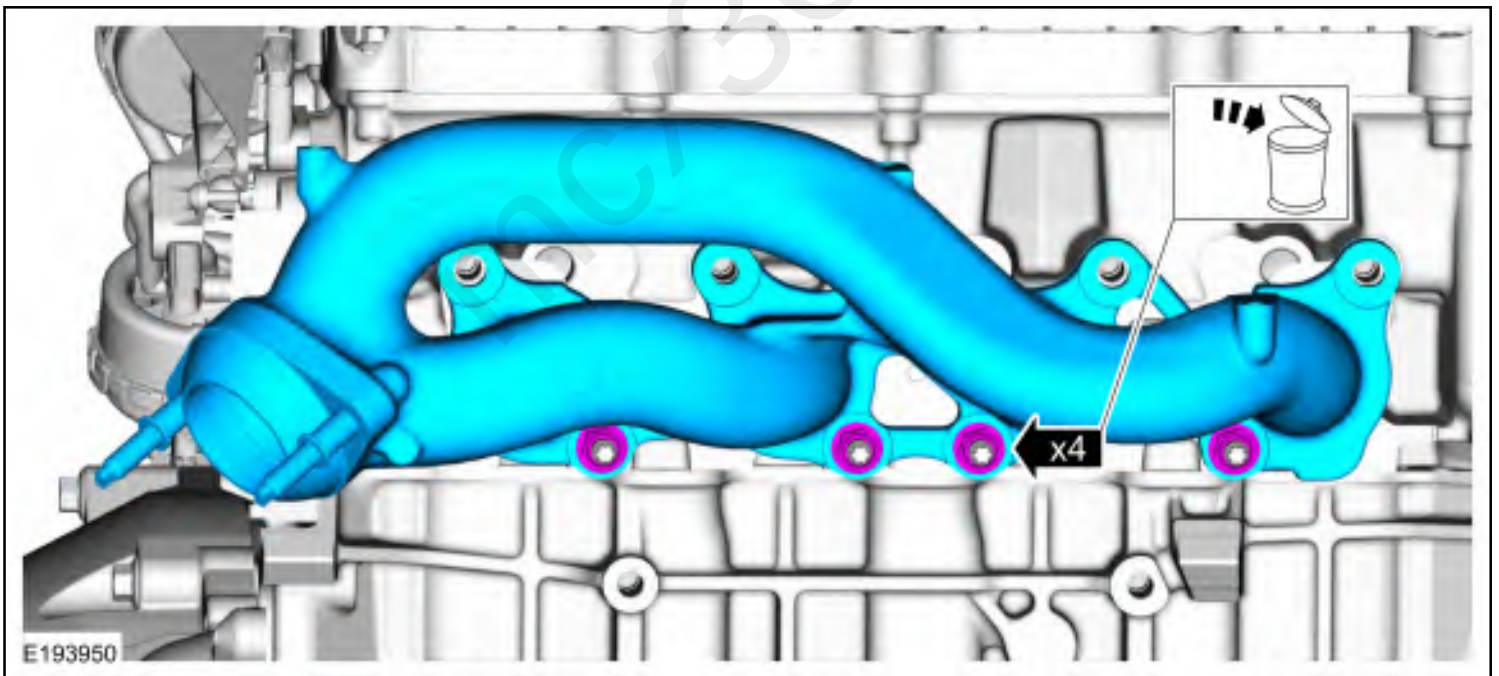
12. Remove and discard the RH exhaust manifold studs.



13. Remove and discard the nuts.

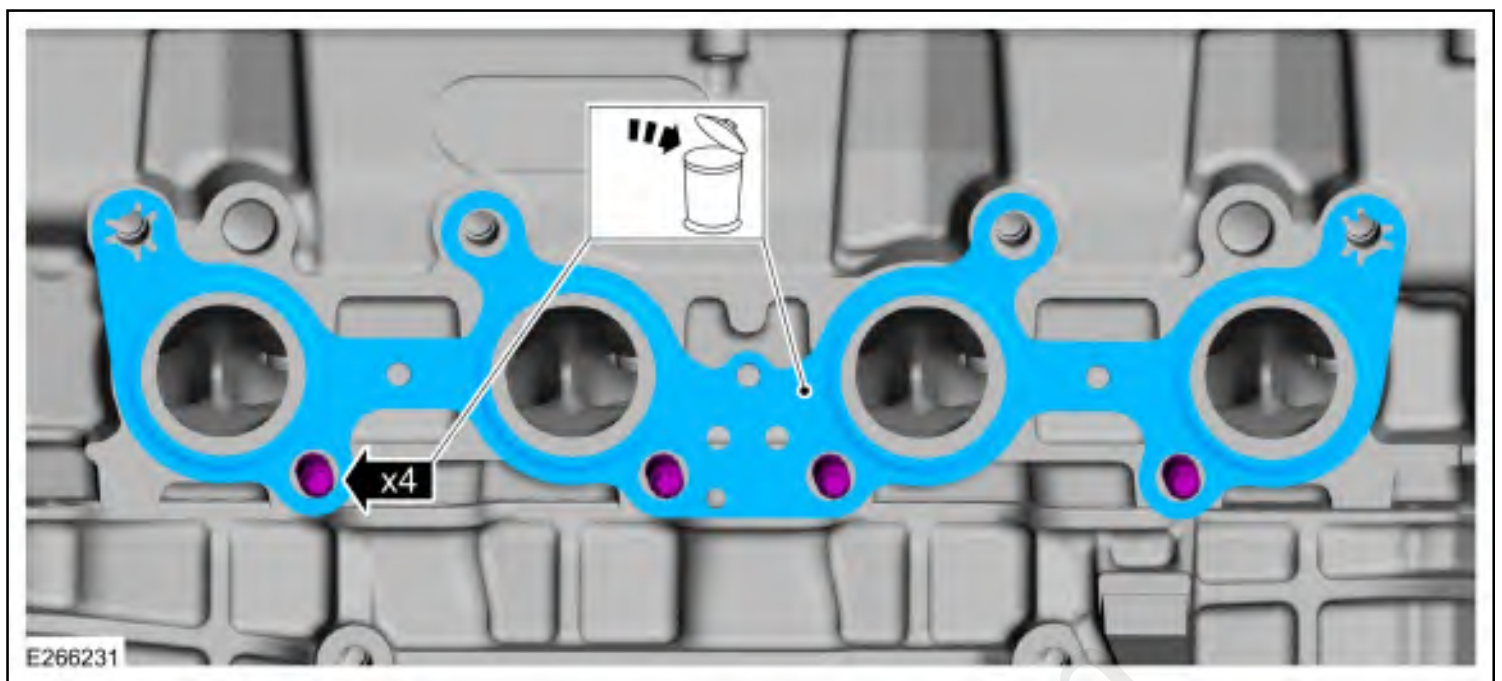
1. Remove the exhaust manifold.
2. Clean and inspect the exhaust manifold.

Refer to: [Exhaust Manifold Cleaning and Inspection](#) (303-00 Engine System - General Information, General Procedures).



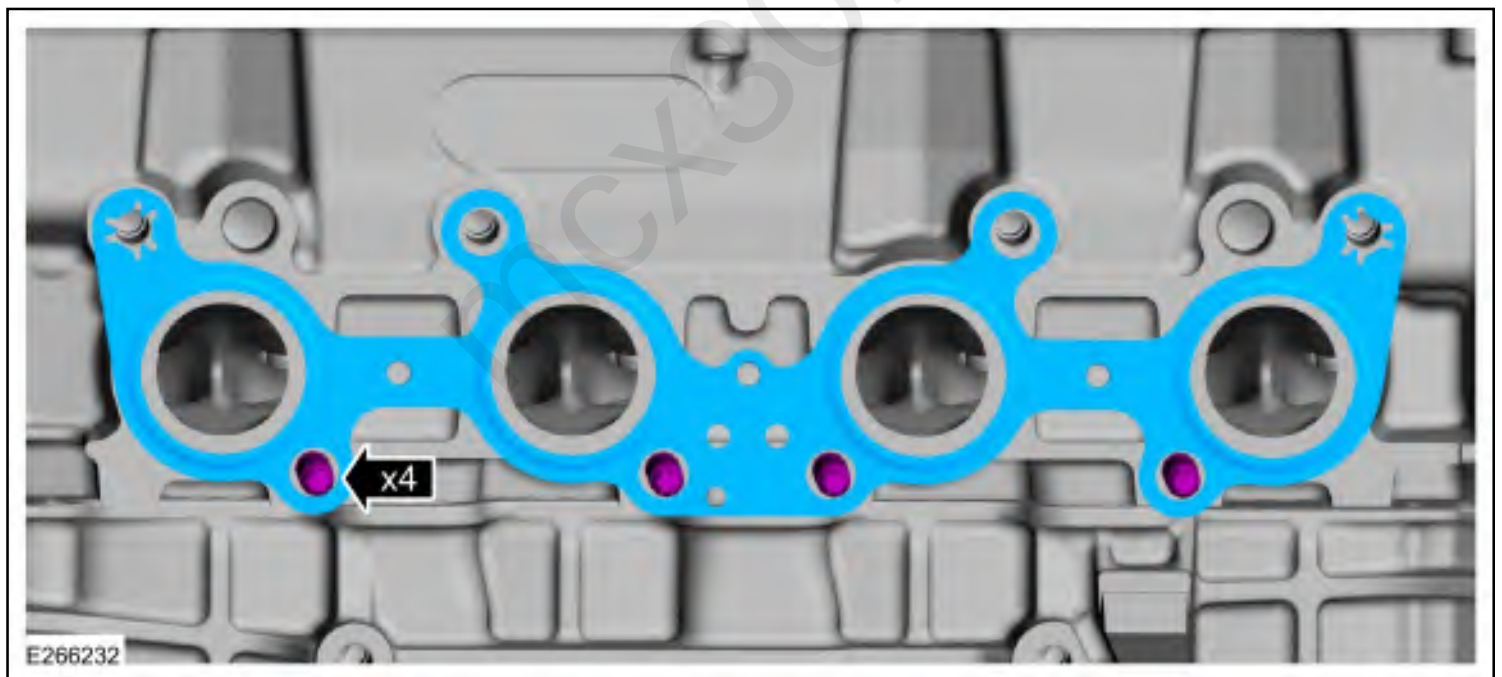
14. Remove and discard the gasket and studs.





## Installation

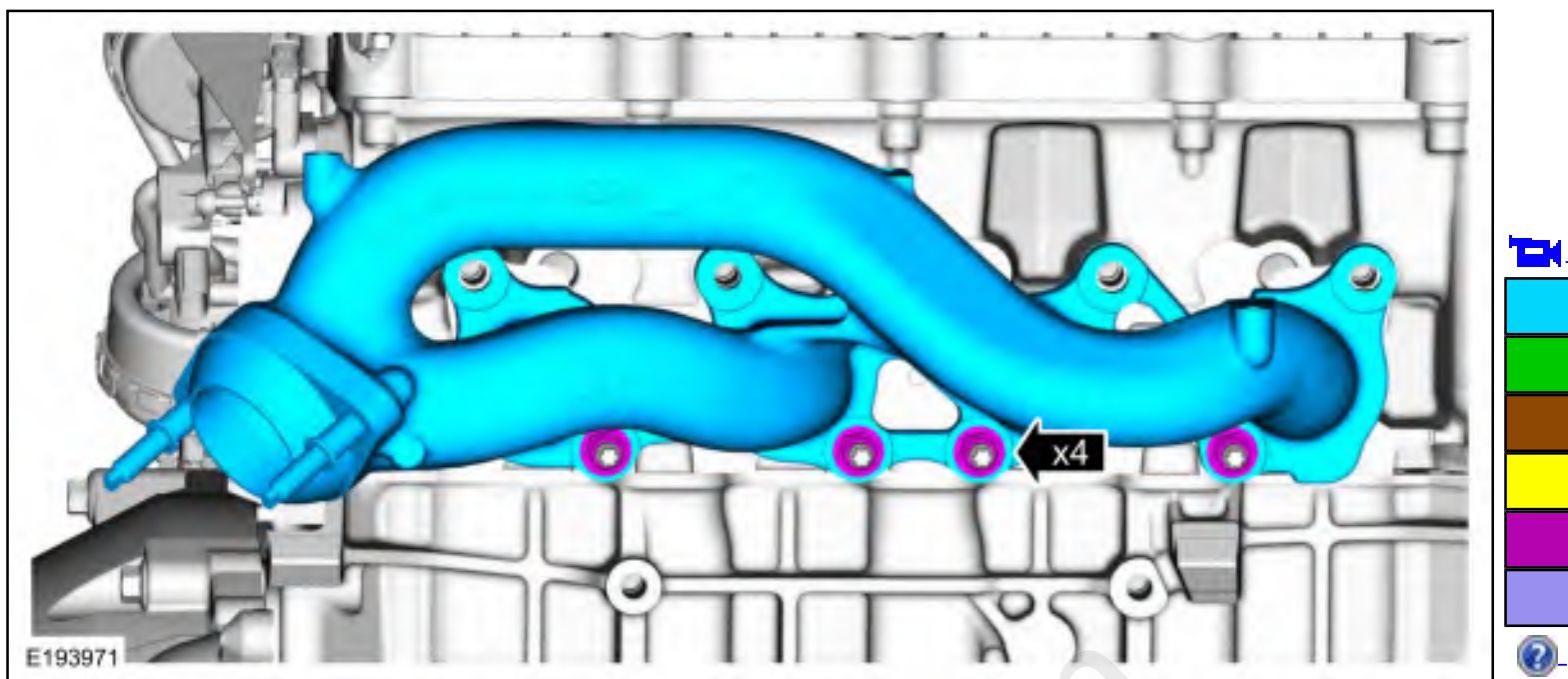
1. Install new studs and new gasket.  
*Torque: 18 lb.ft (25 Nm)*



2. **NOTE:** *Do not tighten the exhaust manifold nuts at this time.*

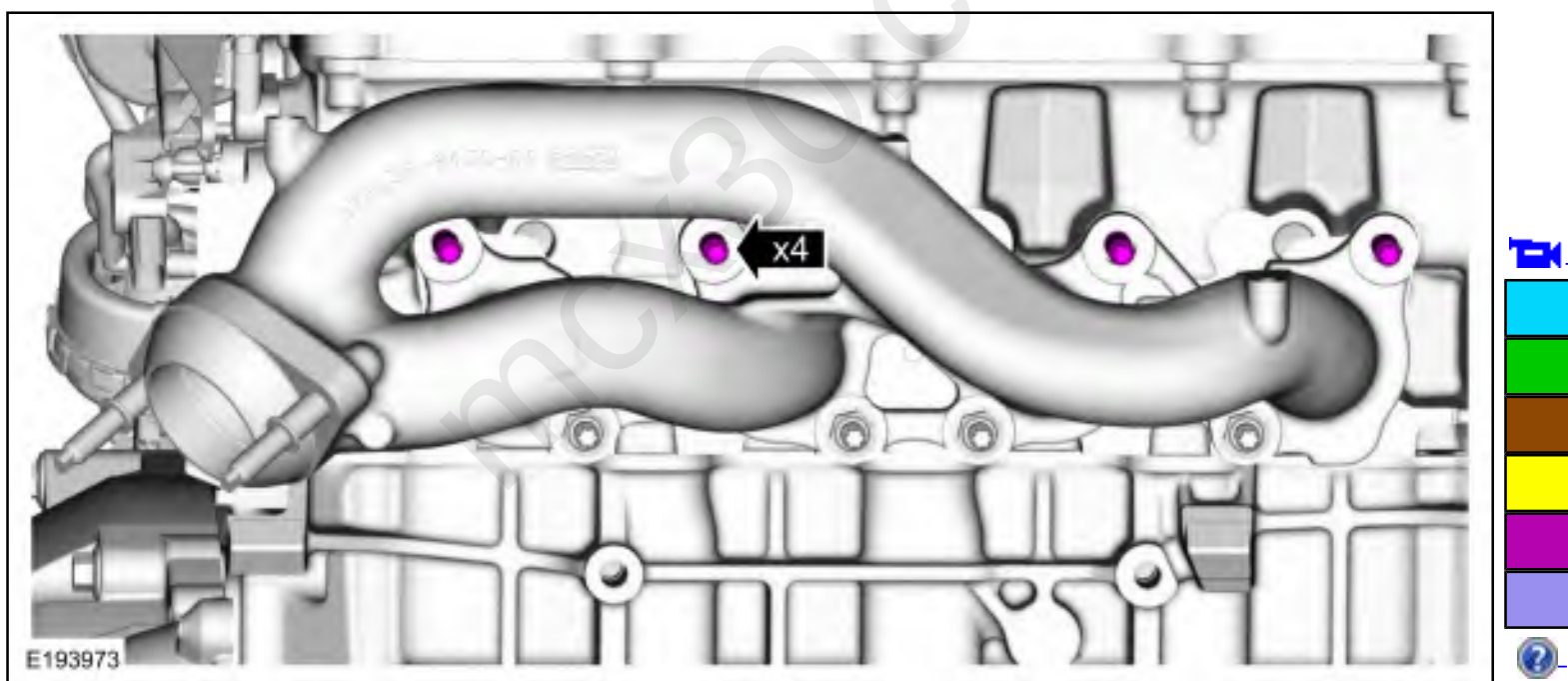
Install the exhaust manifold.

- Install the new nuts.



3. Install new studs.

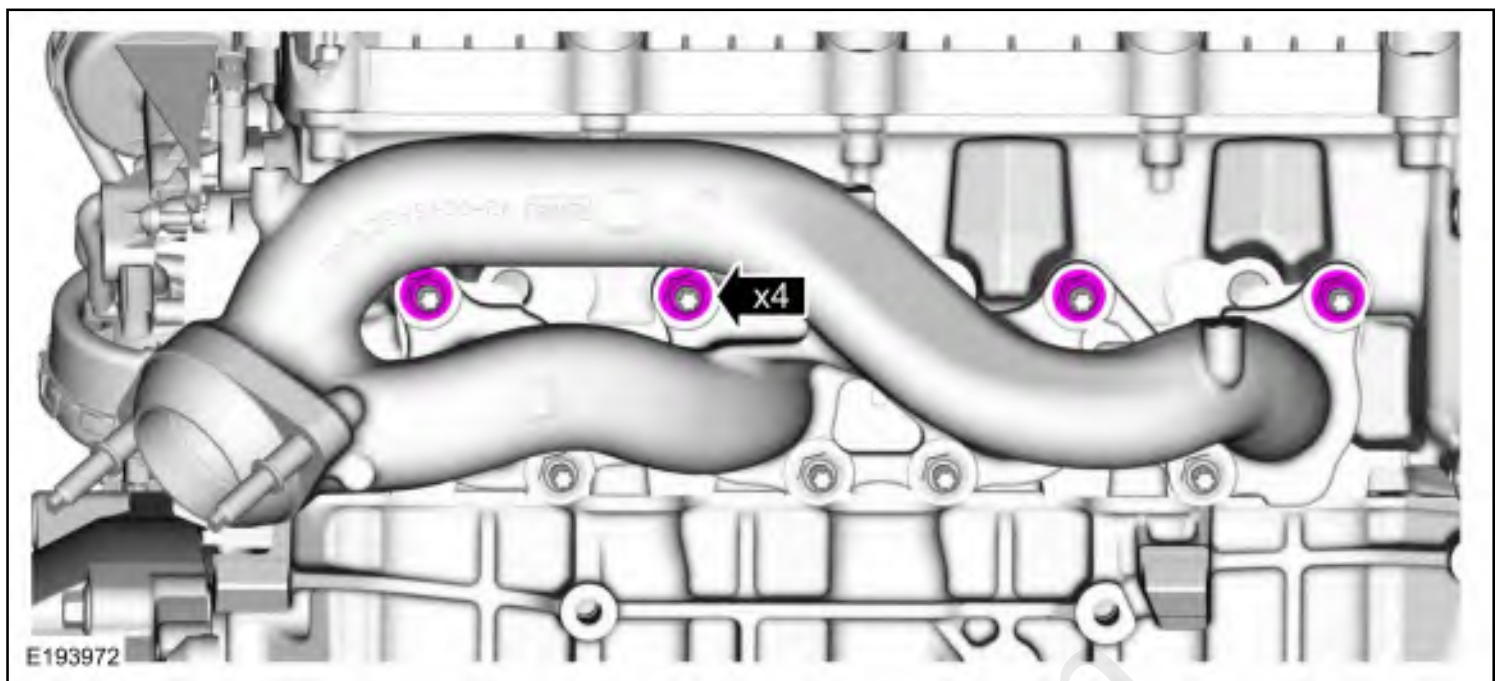
*Torque: 18 lb.ft (25 Nm)*



4. **NOTE:** *Do not tighten the exhaust manifold nuts at this time.*

Install the remaining new nuts.



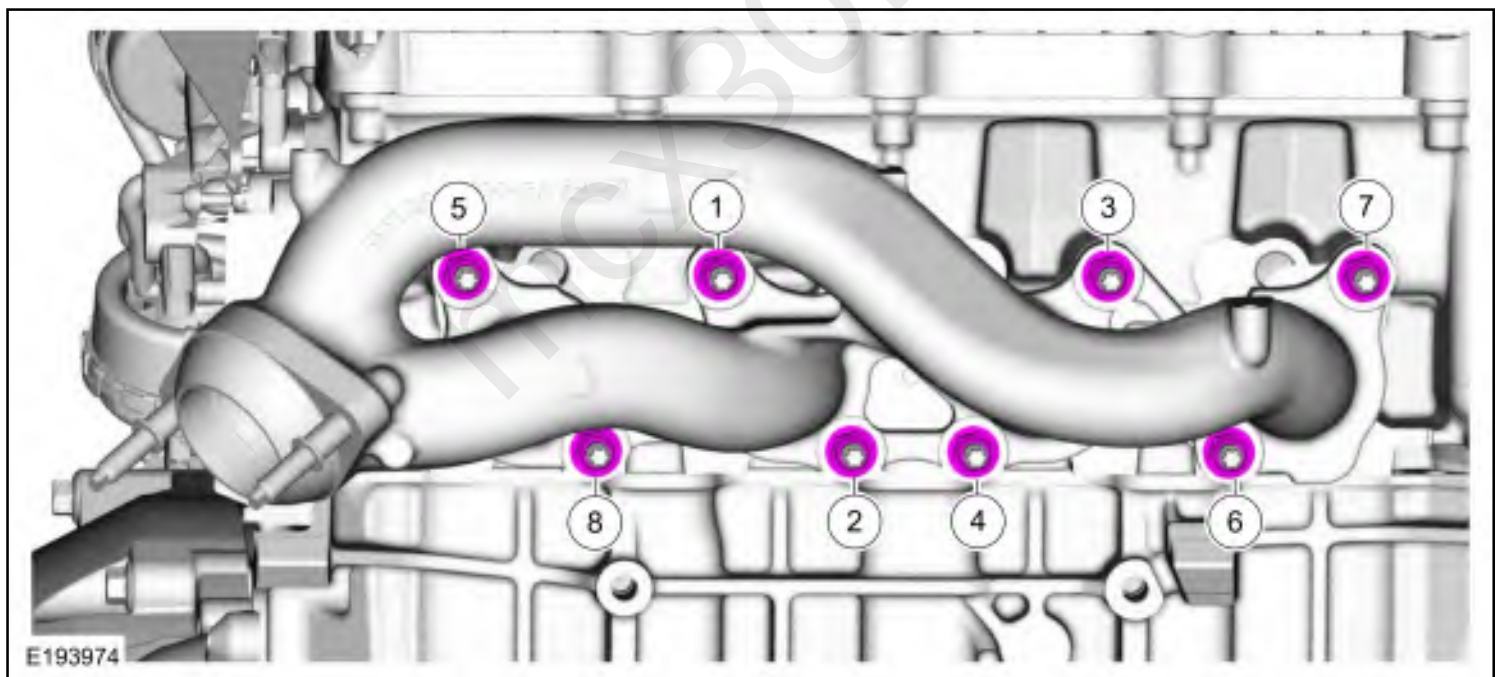


5. Tighten the nuts.

*Torque:*

Stage 1: 18 lb.ft (24 Nm)

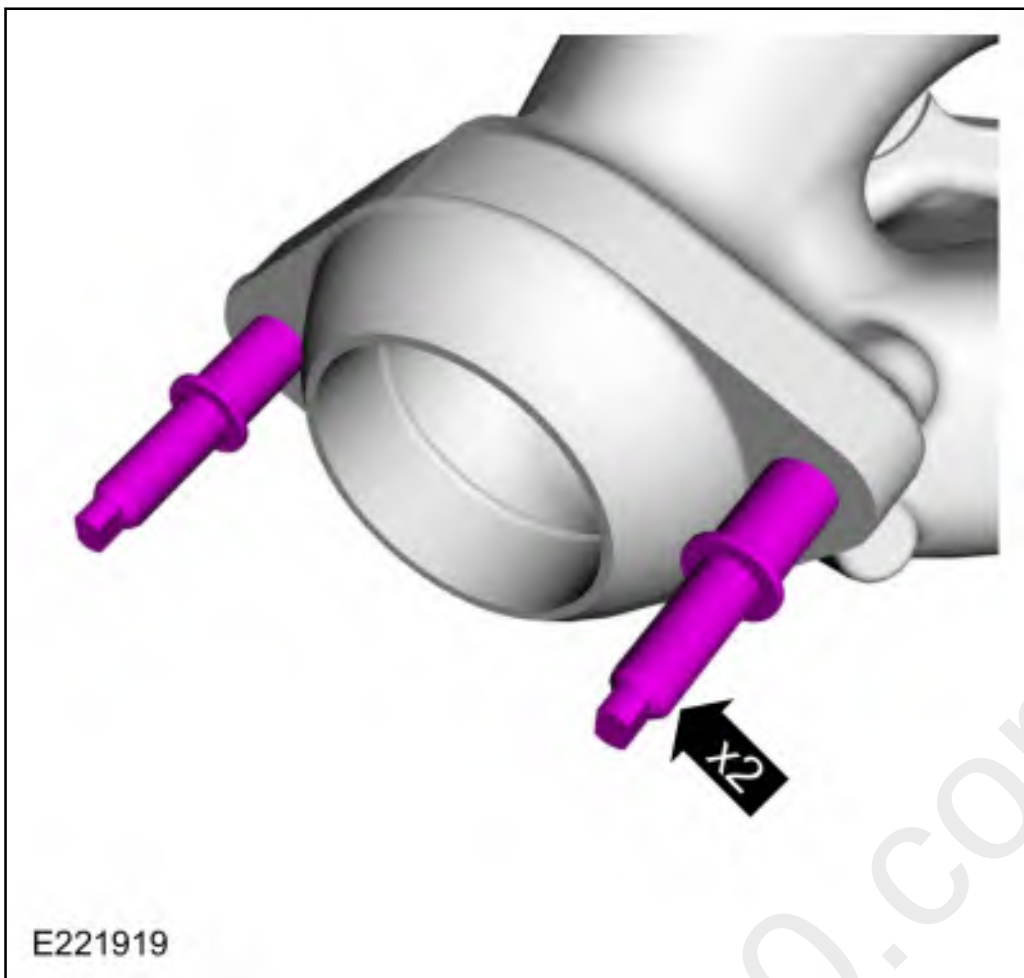
Stage 2: 24 lb.ft (32 Nm)



6. **NOTE:** Some replacement exhaust manifolds do not come with studs.

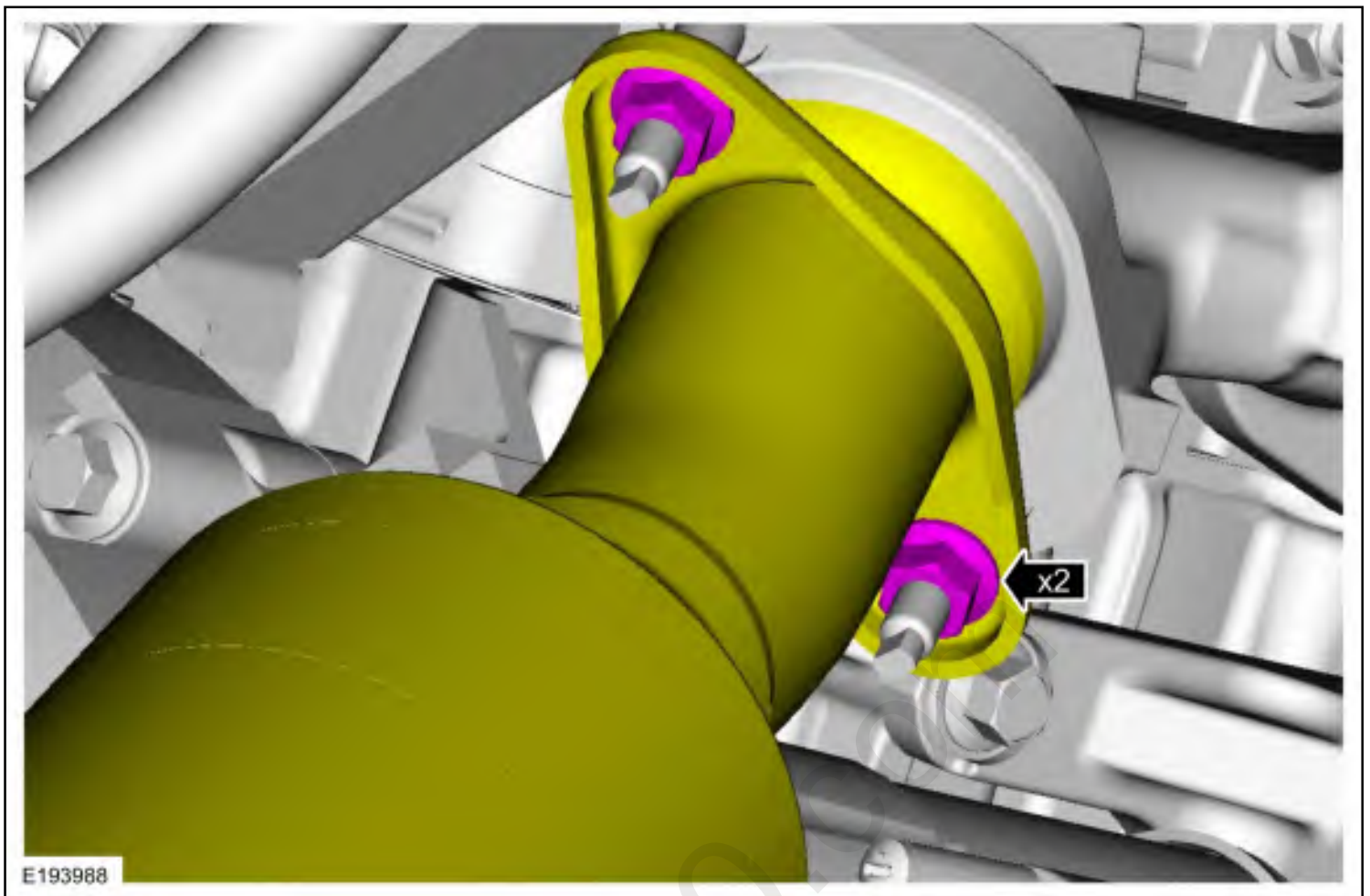
If necessary, install new studs.

*Torque:* 30 lb.ft (40 Nm)

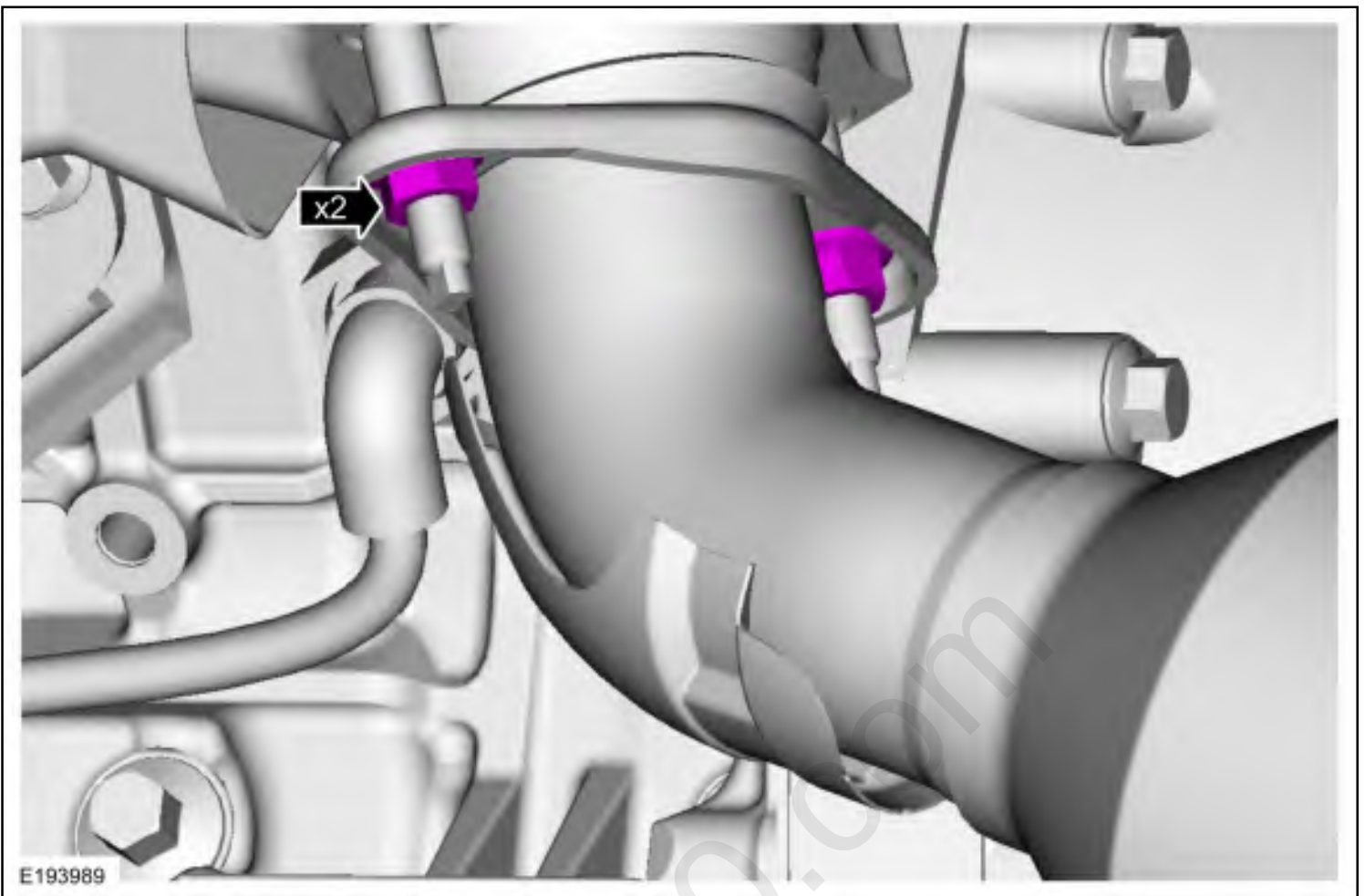


7. Position the exhaust Y-pipe dual catalytic converter onto the exhaust manifolds and loosely install new RH catalytic converter-to-exhaust manifold nuts.





8. Loosely install new LH catalytic converter-to-exhaust manifold nuts.

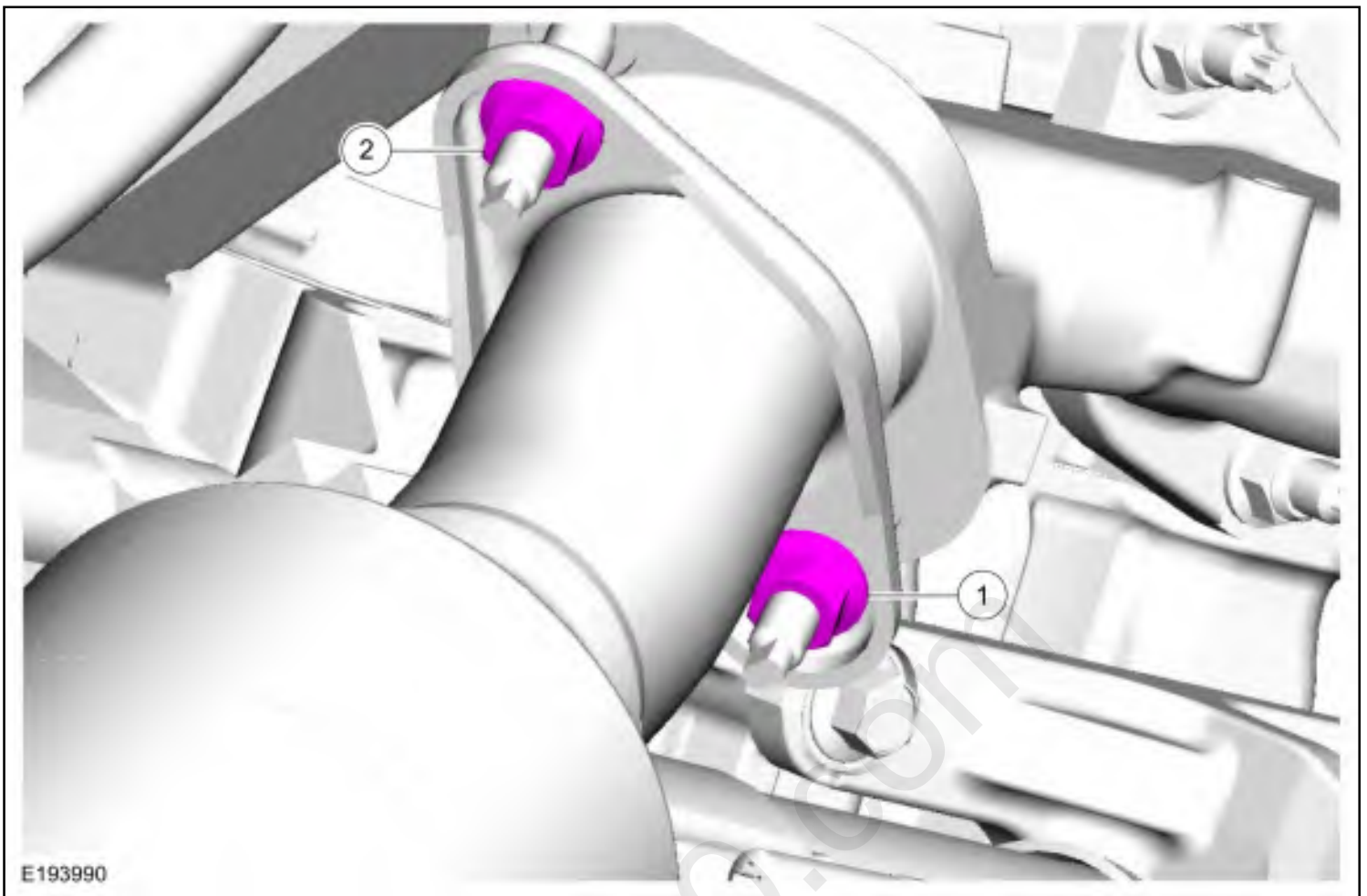


9. Tighten the nuts.

*Torque:*

1: 30 lb.ft (40 Nm)

2: 30 lb.ft (40 Nm)

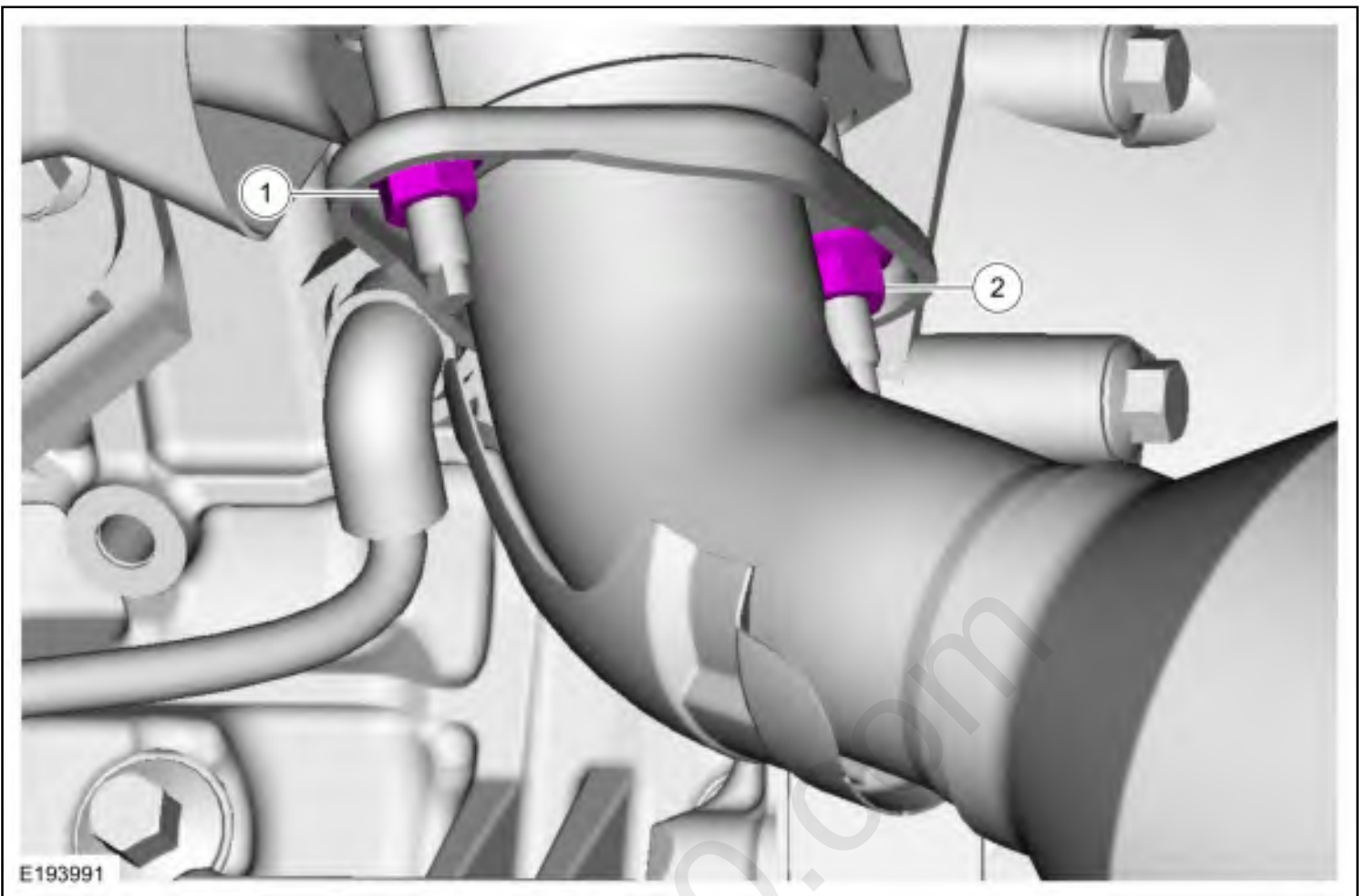


10. Tighten the nuts.

*Torque:*

1: 30 lb.ft (40 Nm)

2: 30 lb.ft (40 Nm)

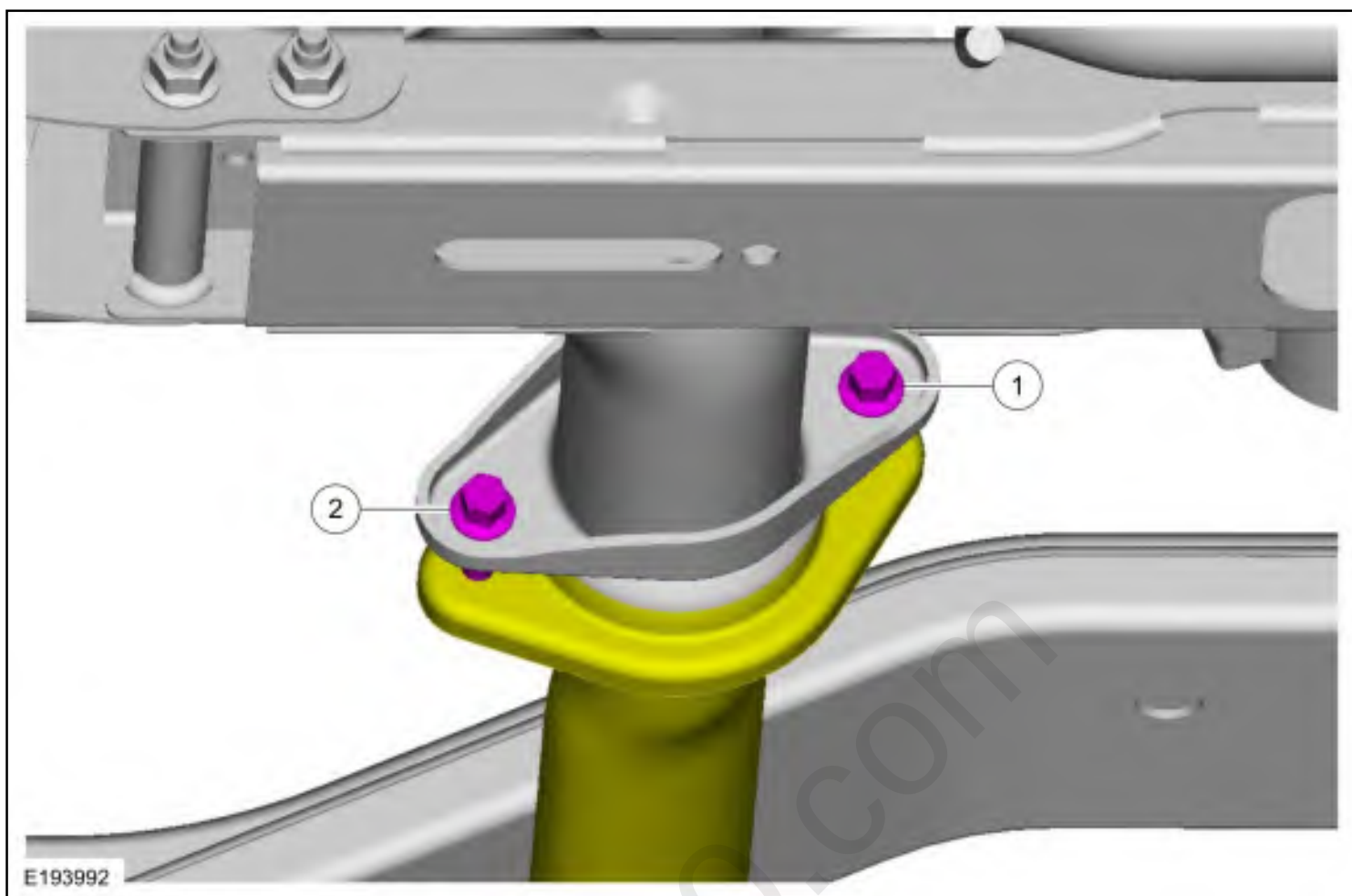


11. Position the exhaust Y-pipe dual catalytic converter-to-exhaust intermediate pipe and install new bolts.

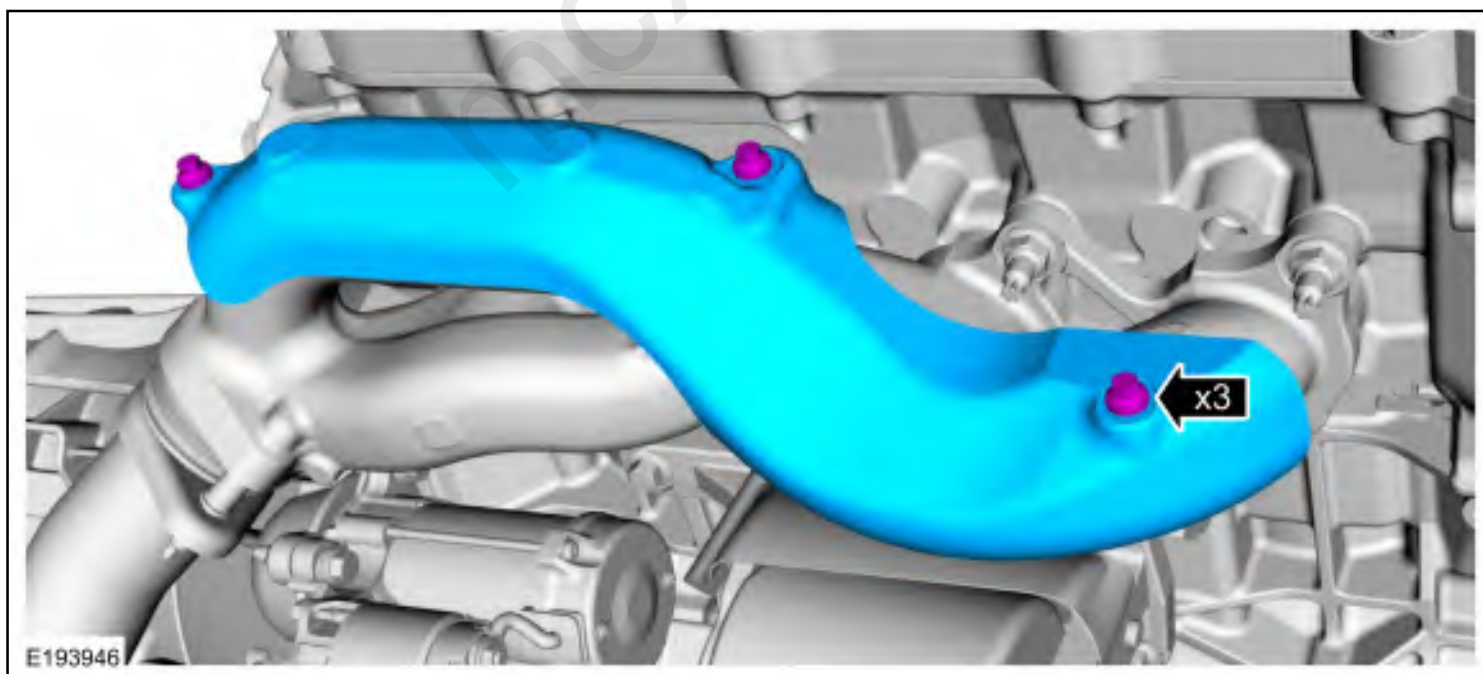
*Torque:*

- 1: 46 lb.ft (63 Nm)
- 2: 46 lb.ft (63 Nm)





12. Install the heat shield and bolts.  
*Torque: 106 lb.in (12 Nm)*



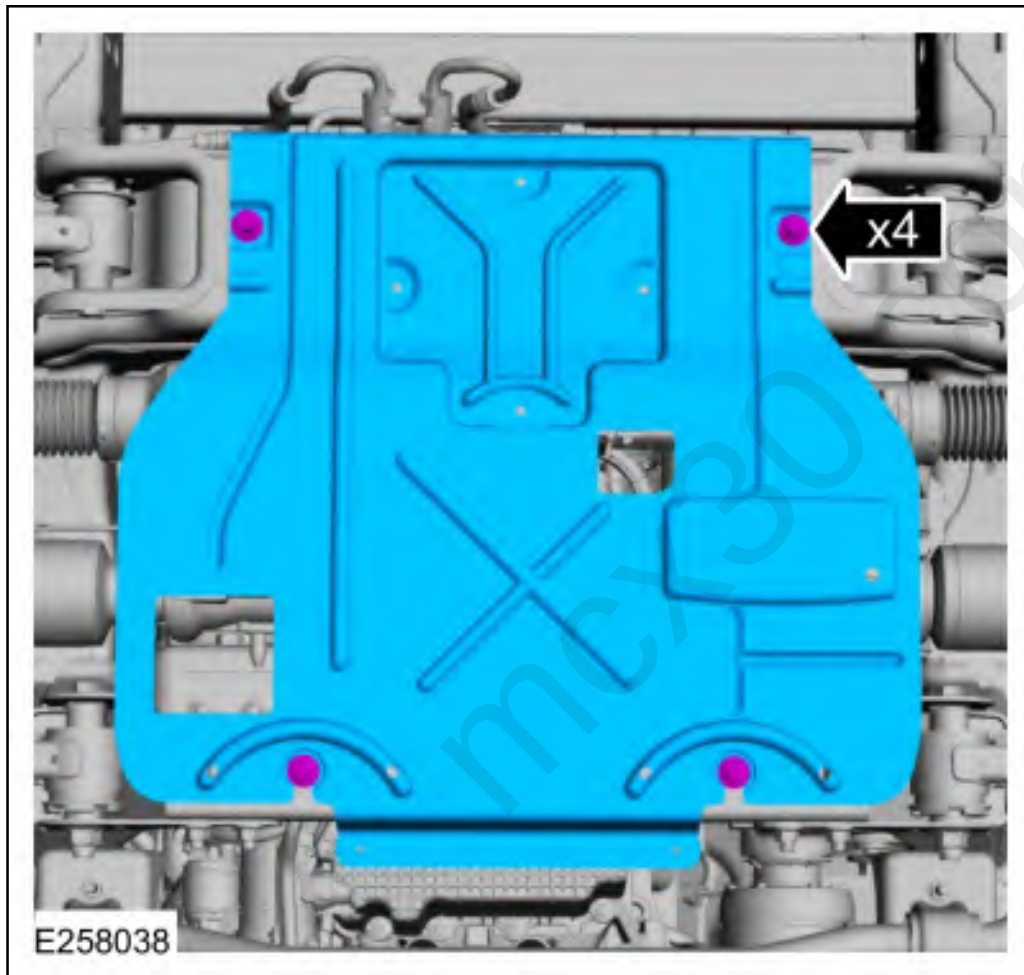
13. Install the following items:

1. Refer to: Air Conditioning (A/C) Compressor - 5.0L 32V Ti-VCT (412-00 Climate Control System - General Information) .
2. RH fender splash shield.  
Refer to: [Fender Splash Shield](#) (501-02 Front End Body Panels, Removal and Installation).
3. RH wheel and tire.  
Refer to: [Wheel and Tire](#) (204-04A Wheels and Tires, Removal and Installation).

14. **NOTE:** *If equipped.*

Install the skid plate and bolts.

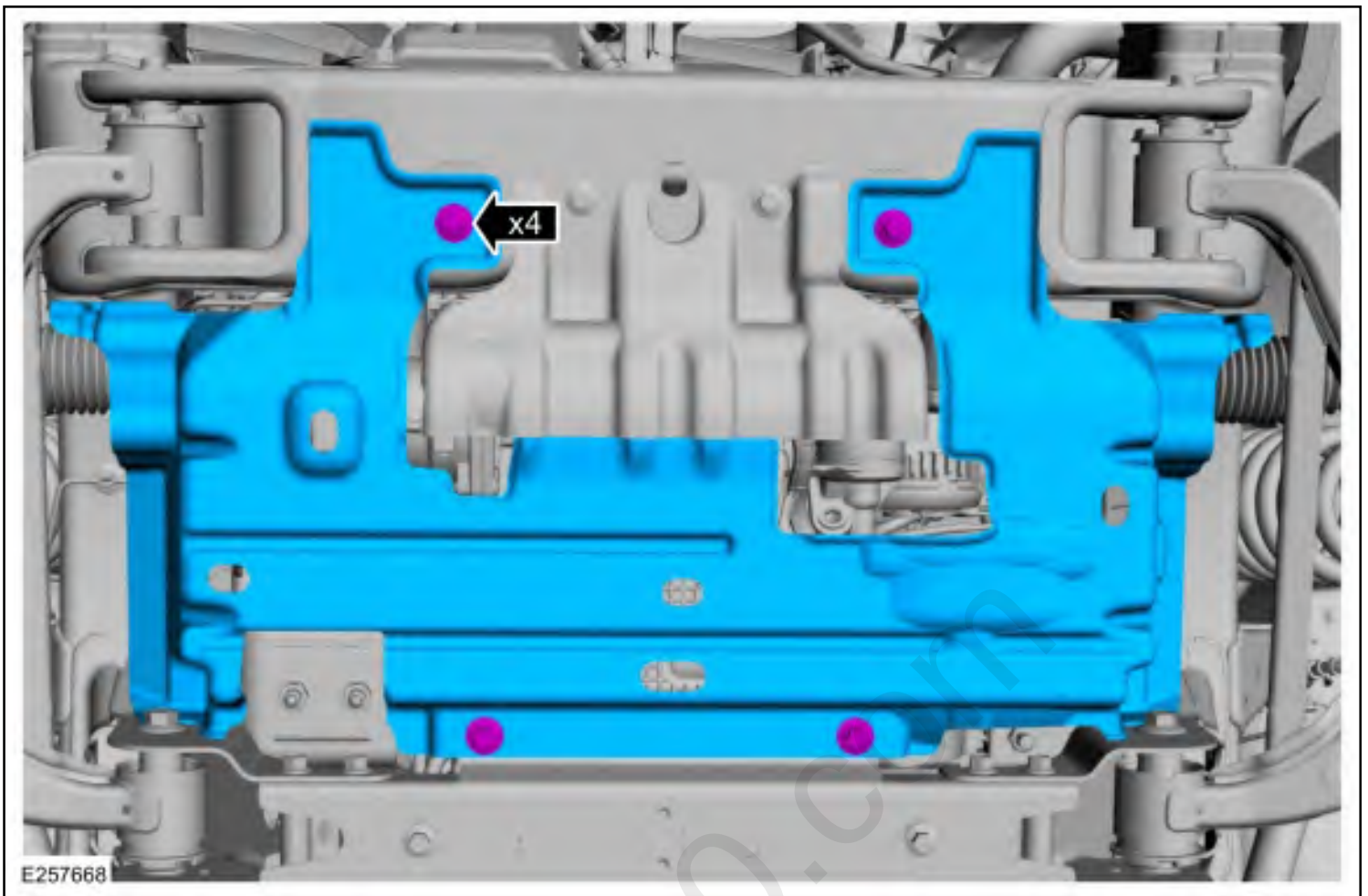
*Torque: 30 lb.ft (40 Nm)*



15. **NOTE:** *If equipped.*

Install the underbody shield and fasteners.

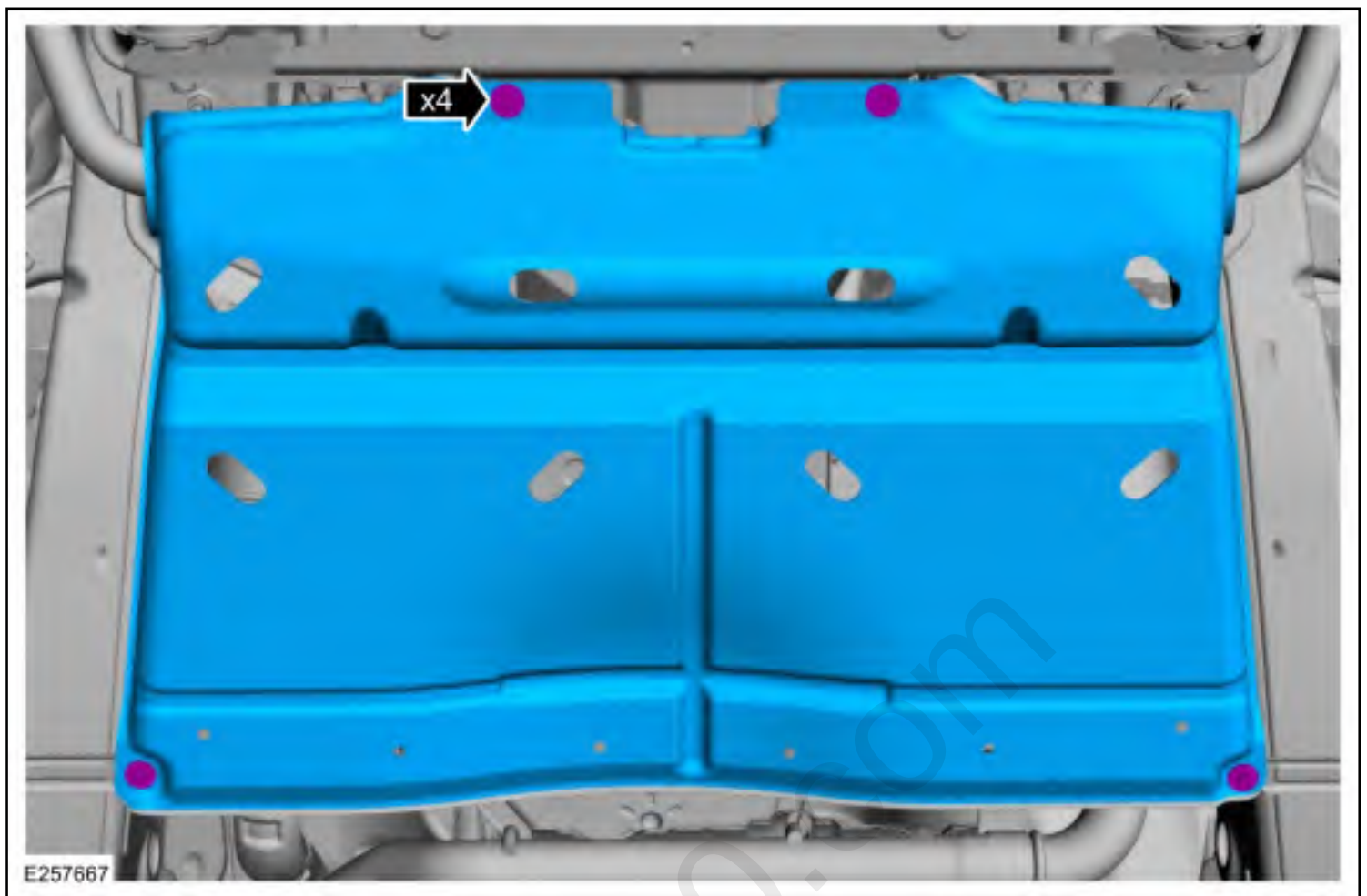
*Torque: 30 lb.ft (40 Nm)*



16. **NOTE:** *If equipped.*

Install the underbody shield and the bolts.

*Torque:* 71 lb.in (8 Nm)



17. Connect the battery ground cable.  
Refer to: Battery Disconnect and Connect (414-01 Battery, Mounting and Cables) .
18. Start the engine and check for exhaust leaks.