

Engine Mount RH

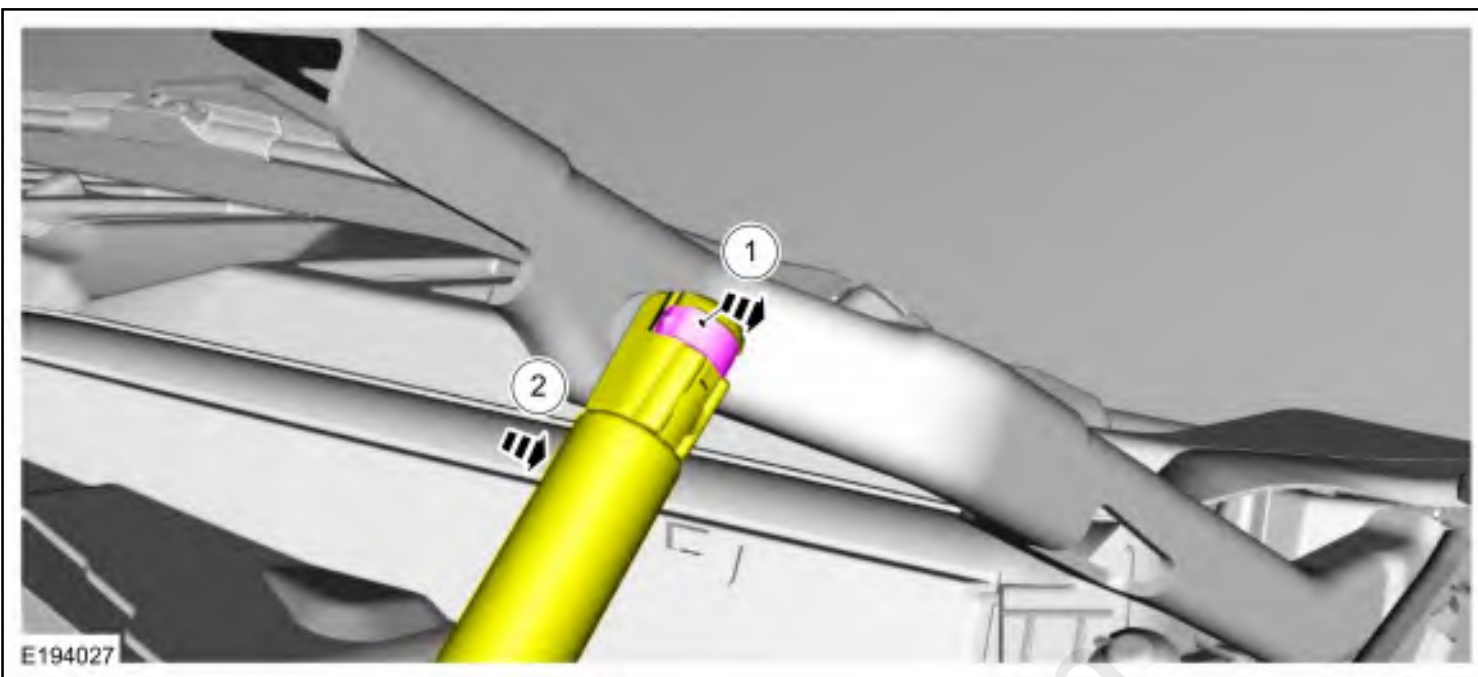
Base Part Number: Base Part Number: 6038

Special Tool(s) / General Equipment

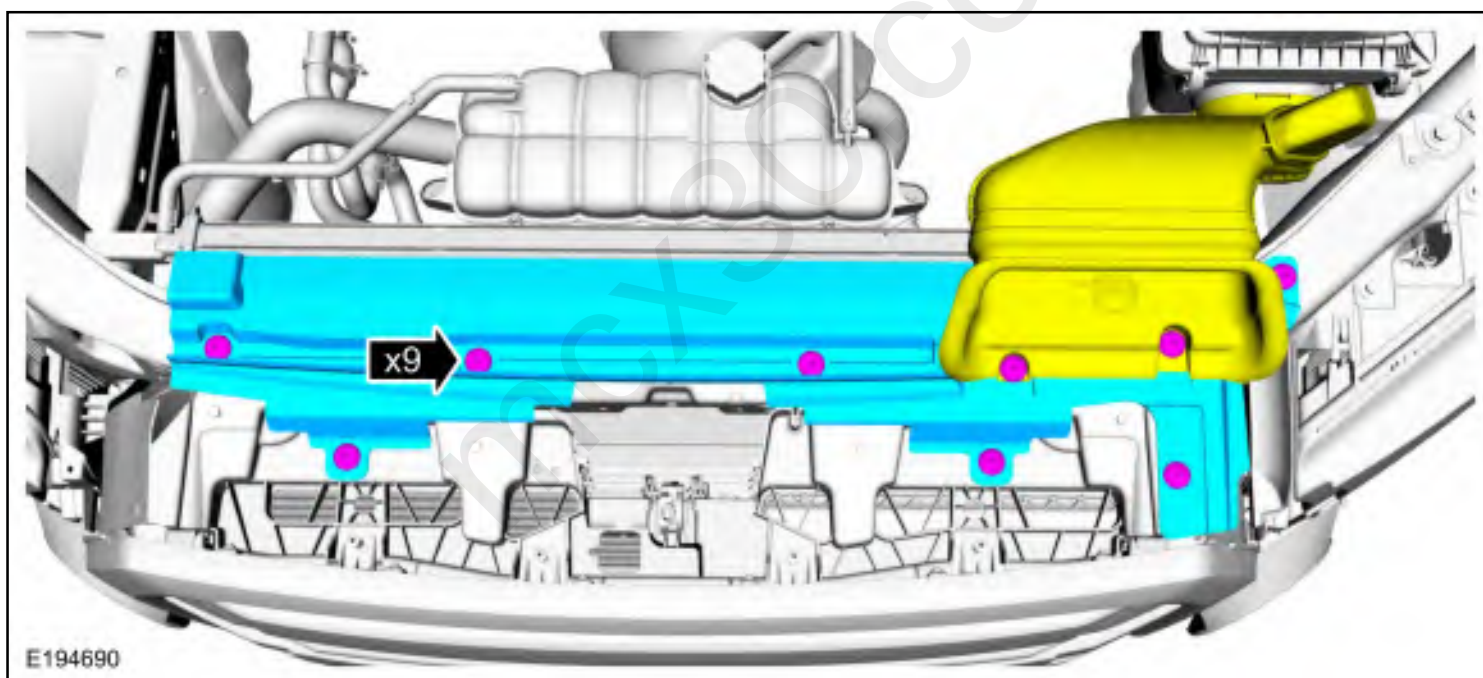
	303-D099 (D94T-6000-C) Lifting Bracket, Engine
	303-F070 Support Bar, Engine TKIT-1999A-F/LT TKIT-1999A-FM/FLM

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. Remove the hood.
Refer to: [Hood](#) (501-02 Front End Body Panels, Removal and Installation).
3. **NOTE:** *LH shown, RH similar.*
 1. Release the clip.
 2. Detach and position the hood shock aside.

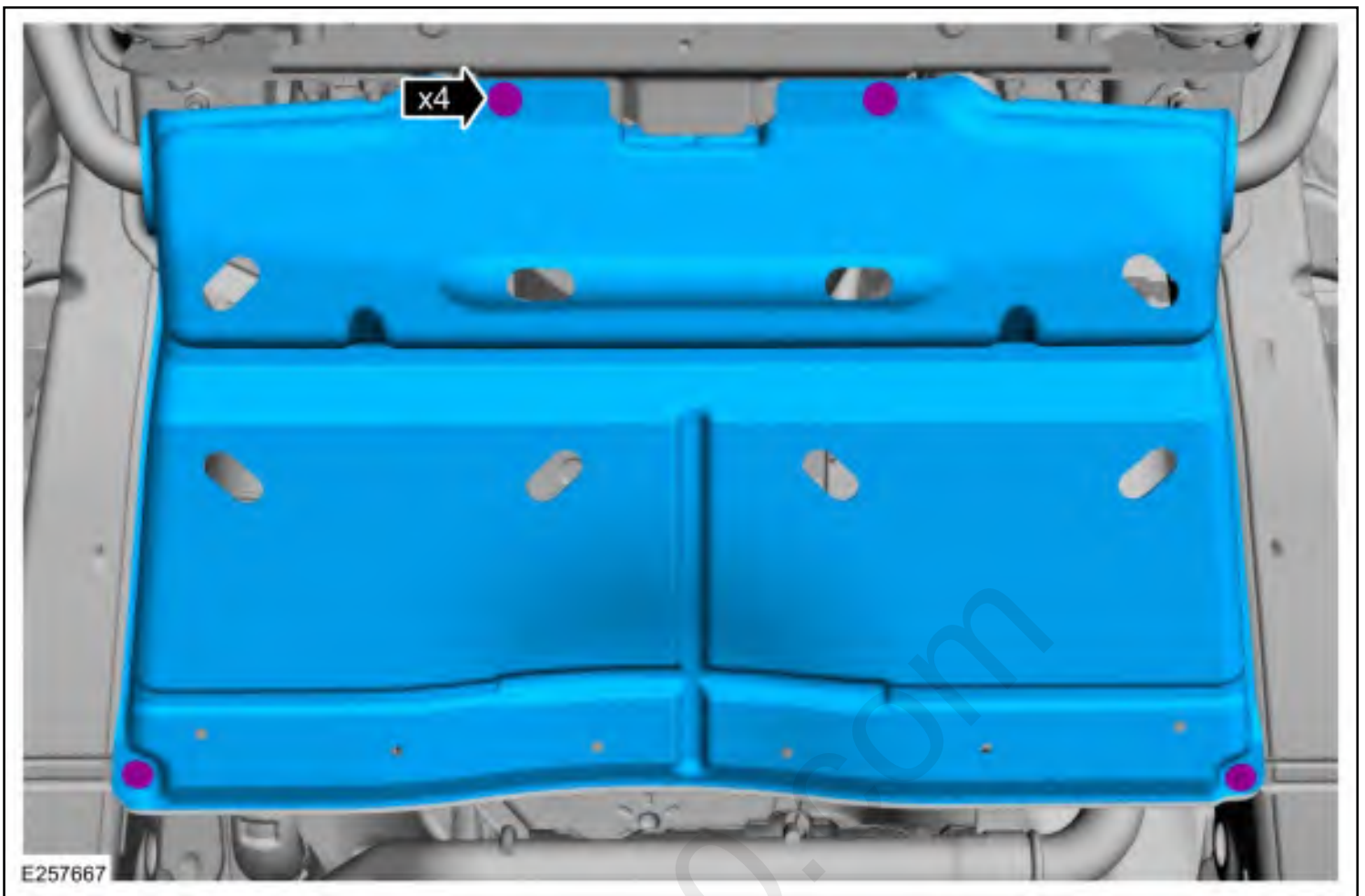


4. Remove the retainers and the radiator top shield.



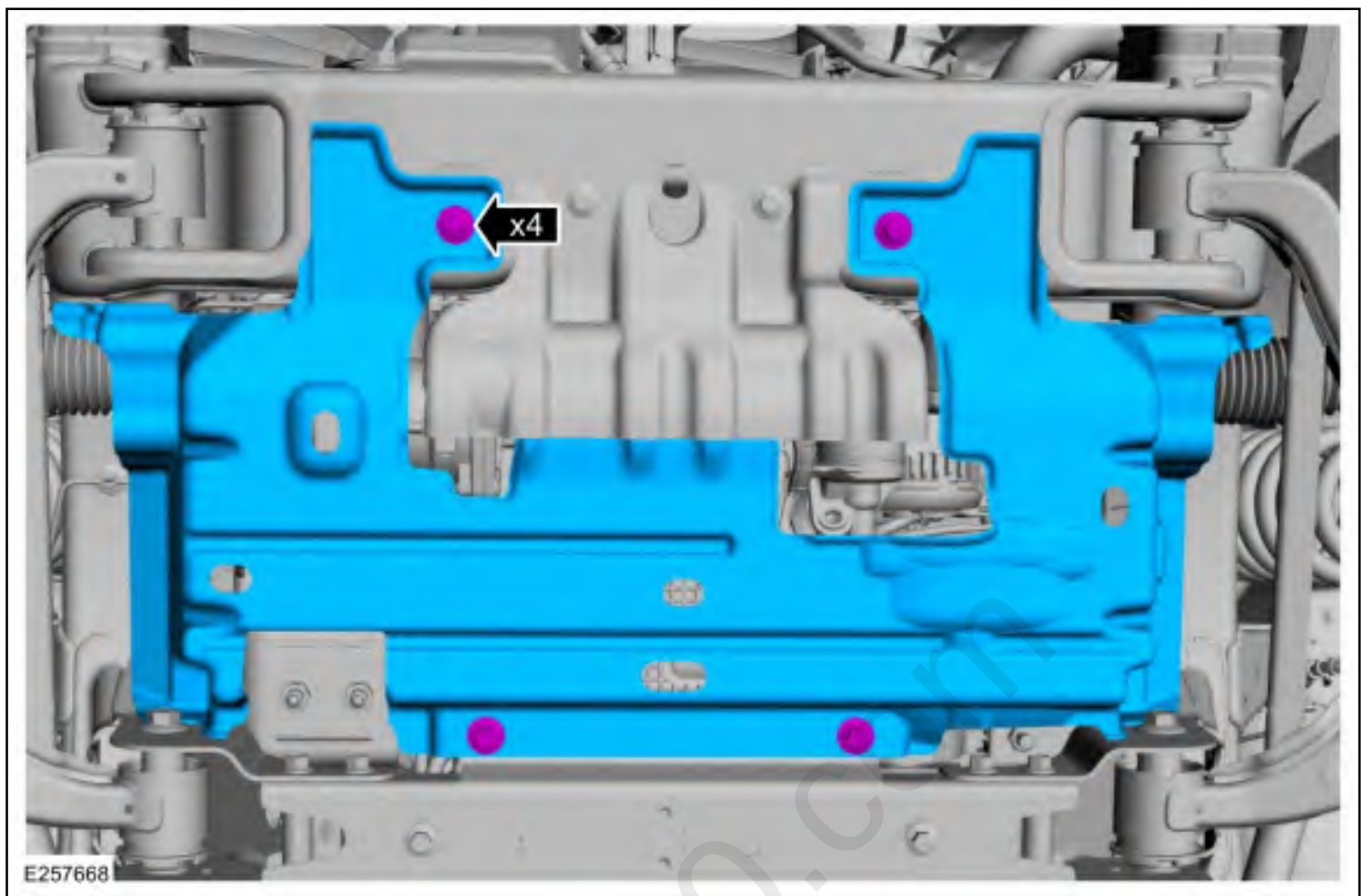
5. **NOTE:** *If equipped.*

Remove the bolts and the underbody shield.



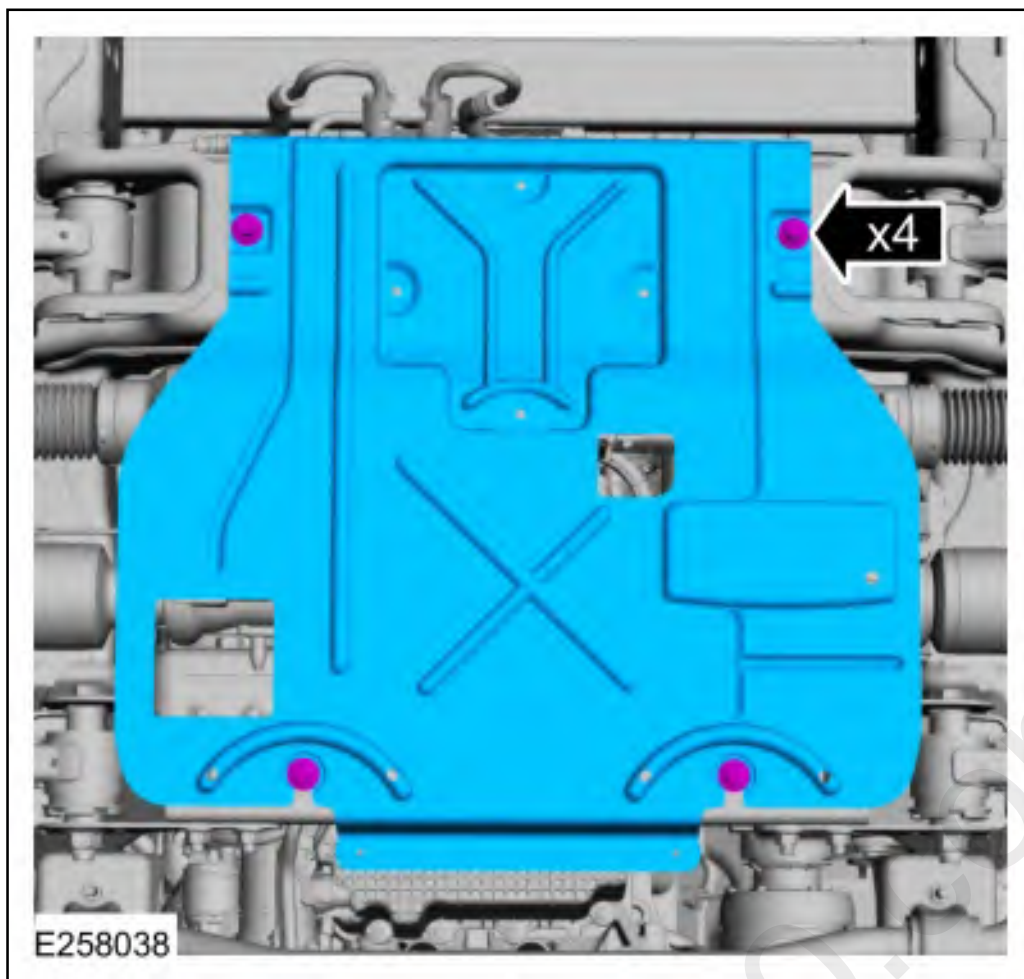
6. **NOTE:** *If equipped.*

Remove the bolts and the underbody shield.



7. **NOTE:** *If equipped.*

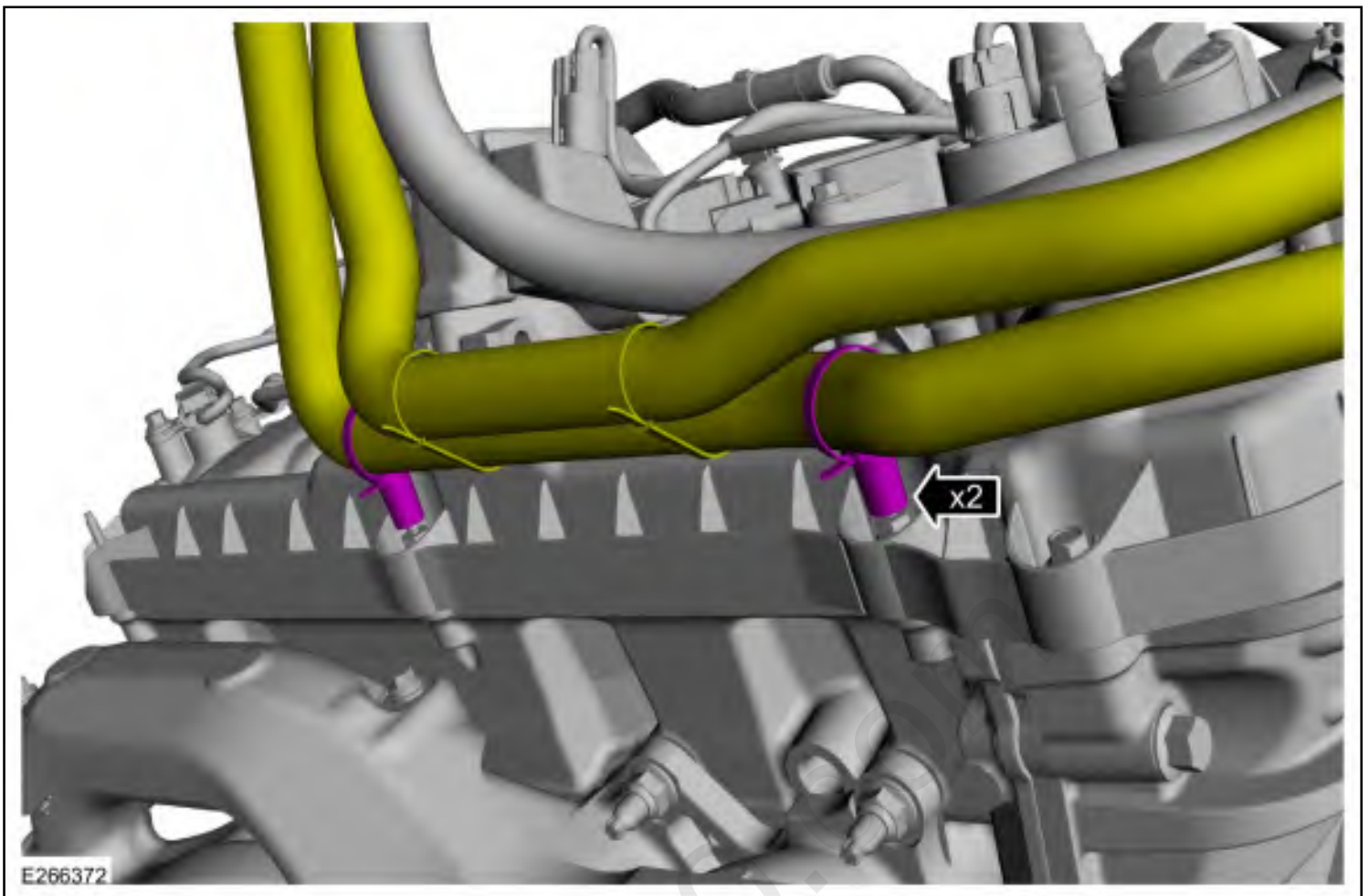
Remove the bolts and the skid plate.



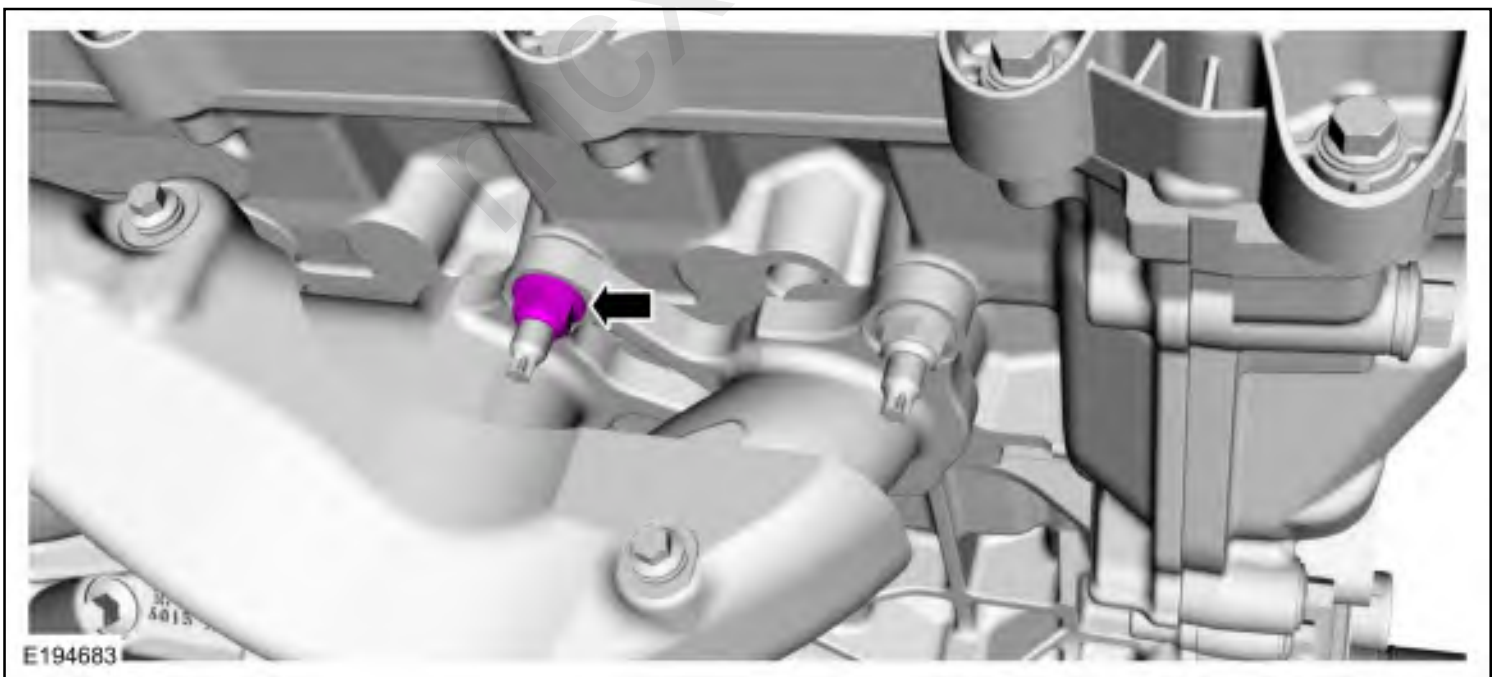
8. Remove the A/C compressor.

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

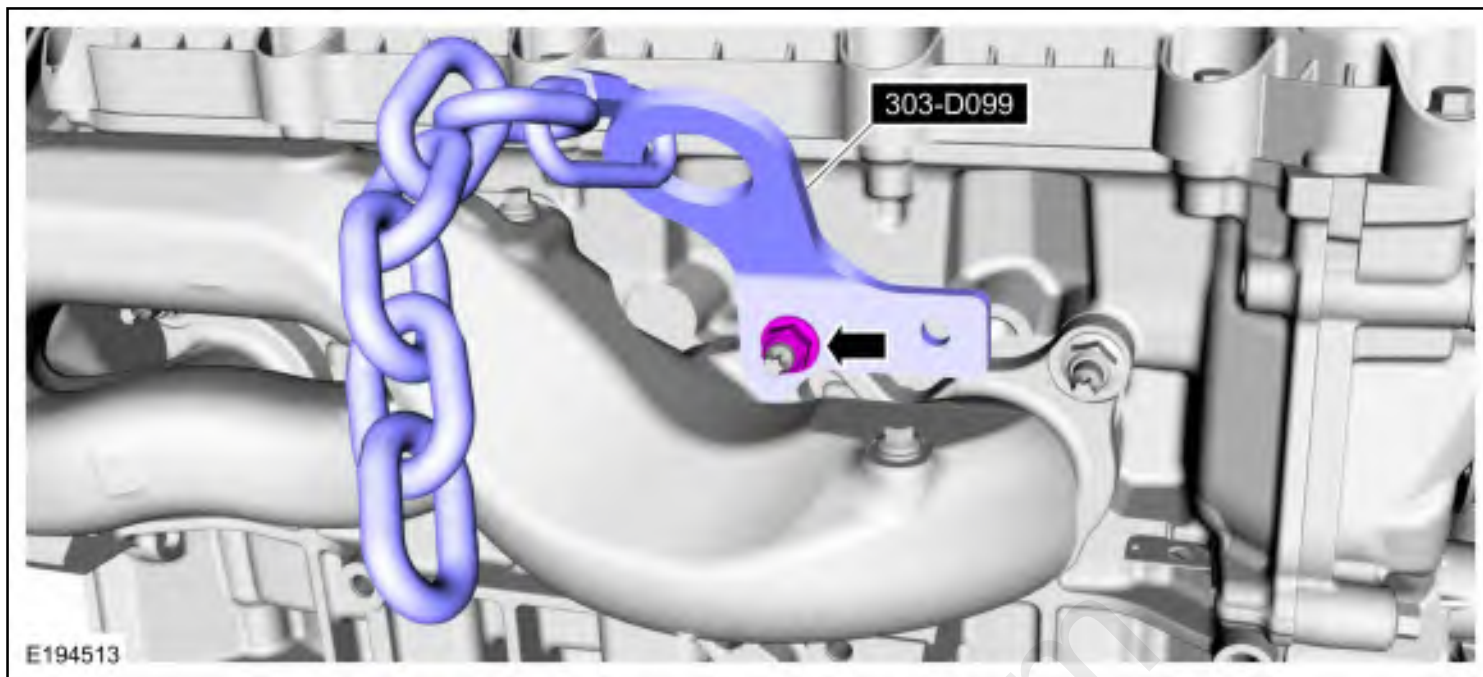
9. Detach the heater hose retainers.



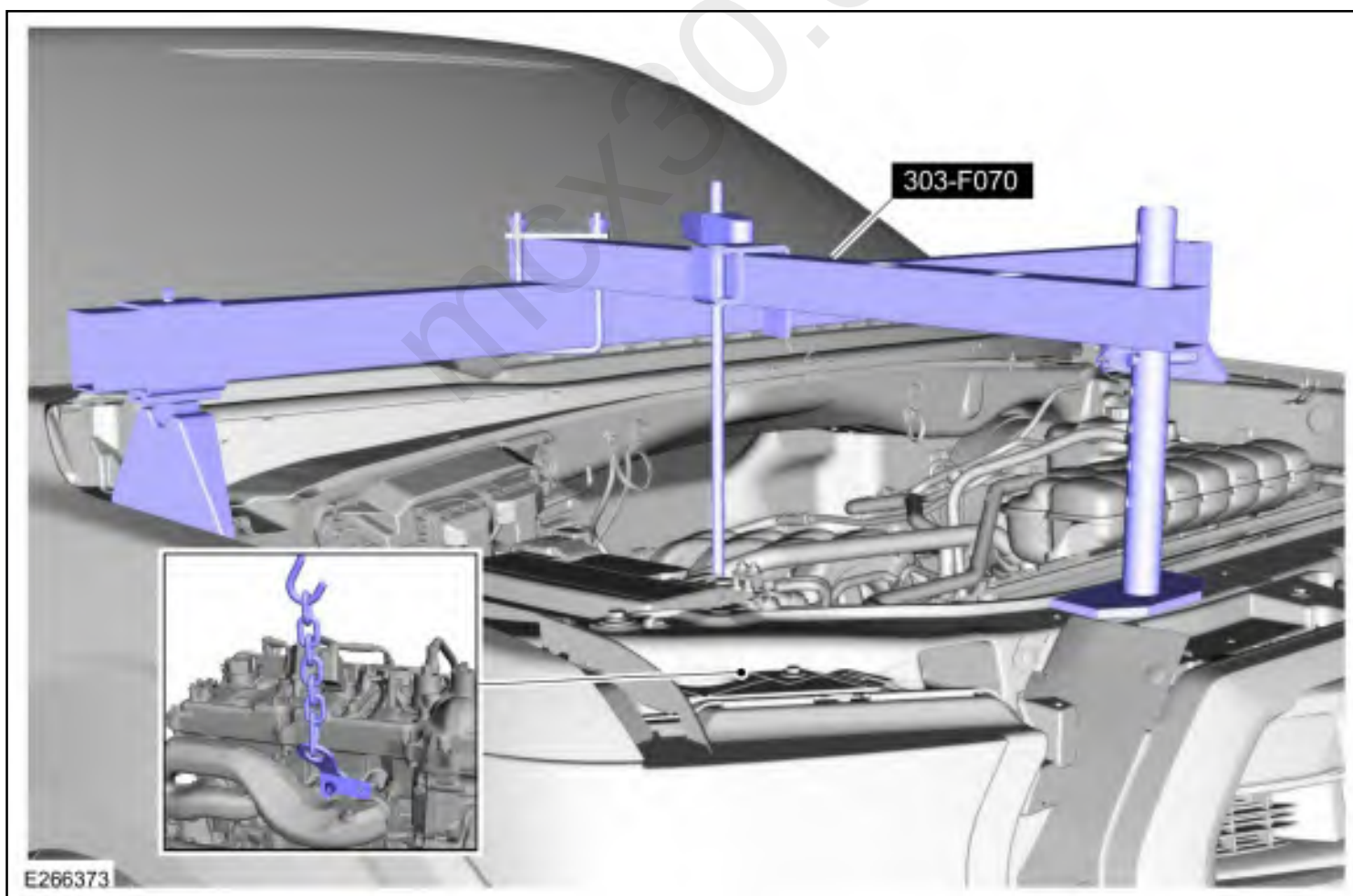
10. Remove the RH exhaust manifold nut.



11. Install the special tool, the exhaust manifold nut and a length of chain.
Use Special Service Tool: 303-D099 (D94T-6000-C) Lifting Bracket, Engine.



1. Install Special Service Tool: 303-F070 Support Bar, Engine.
2. Attach the chain installed in the previous step to the hook on the special tool.



13. Remove the following items:

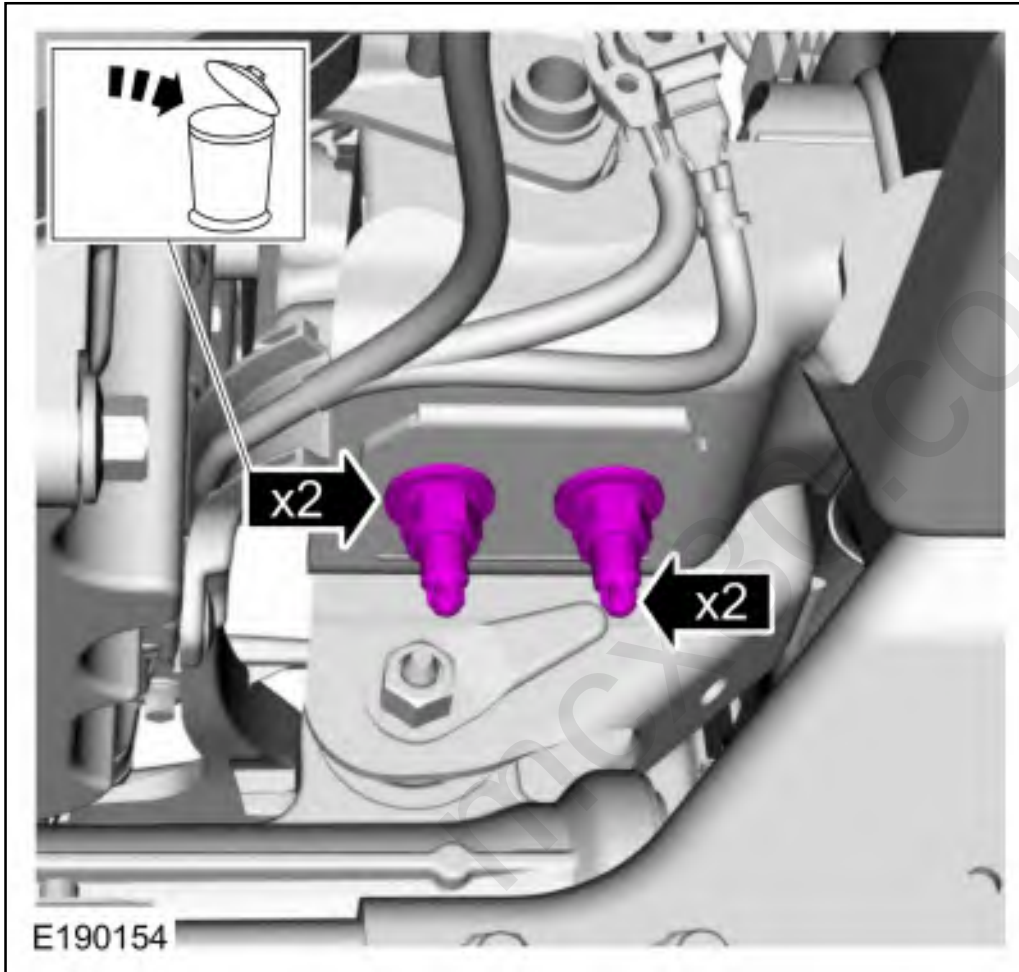
1. Refer to: Starter Motor (303-06 Starting System - 5.0L 32V Ti-VCT) .

2. If equipped.

Refer to: [Front Driveshaft](#) (205-01 Driveshaft, Removal and Installation).

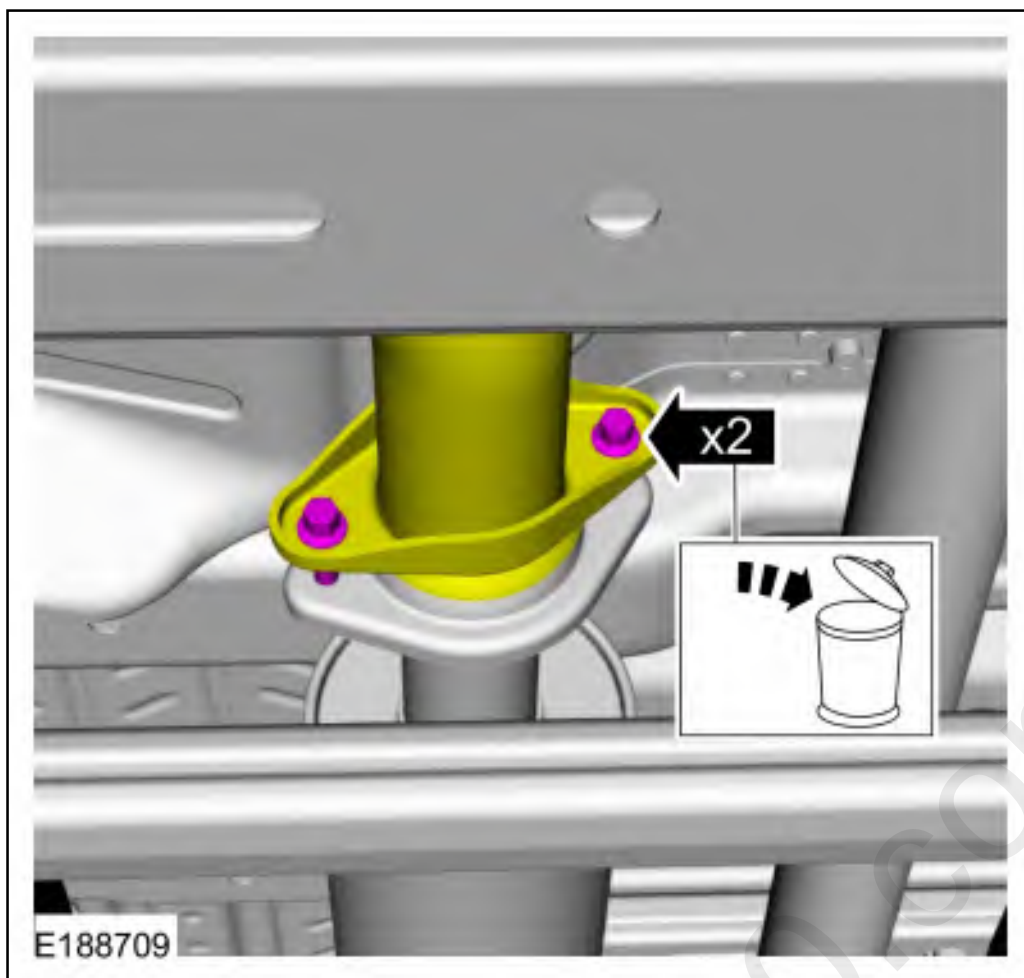
14. **NOTICE: Only use hand tools when removing the engine mount nuts, stud bolts or damage to the engine mount can occur.**

Remove and discard the RH engine mount nuts and stud bolts.



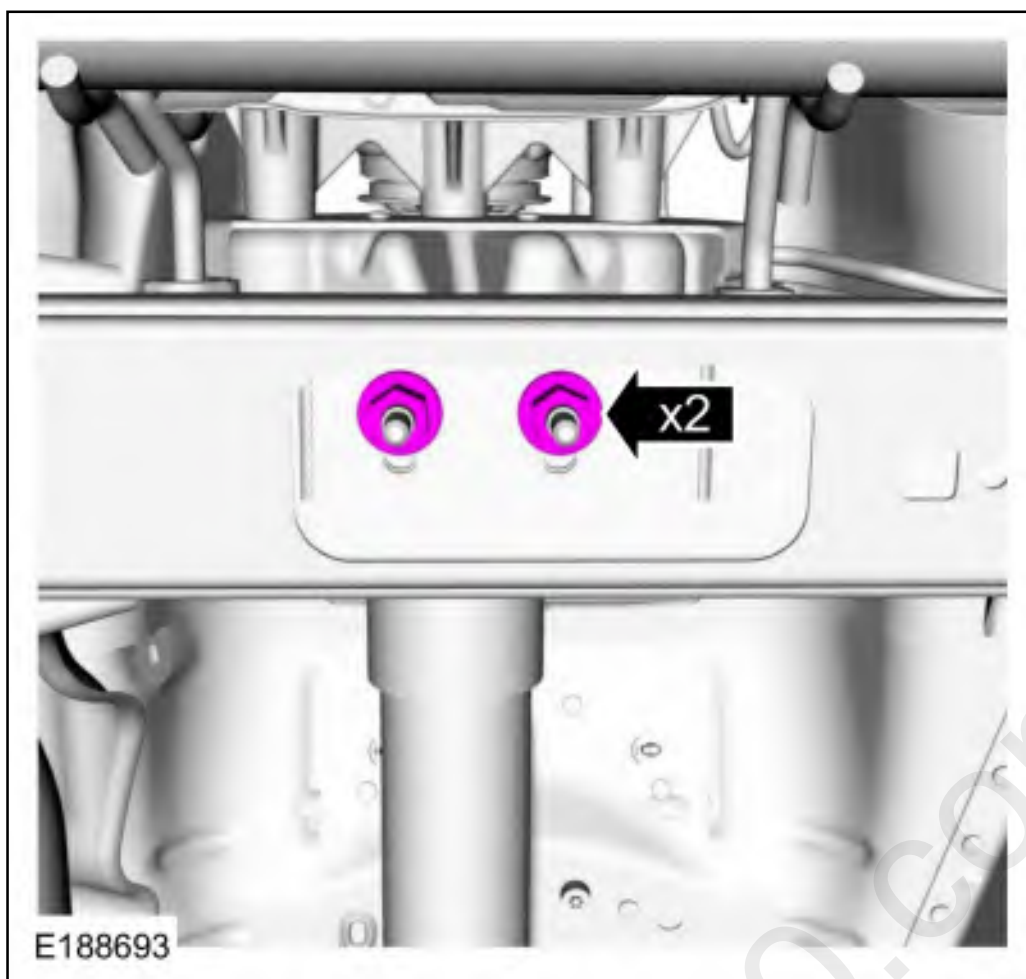
15. Remove and discard the exhaust Y-pipe dual catalytic converter-to-exhaust intermediate pipe bolts and separate.

- Clean and inspect the mating surfaces.



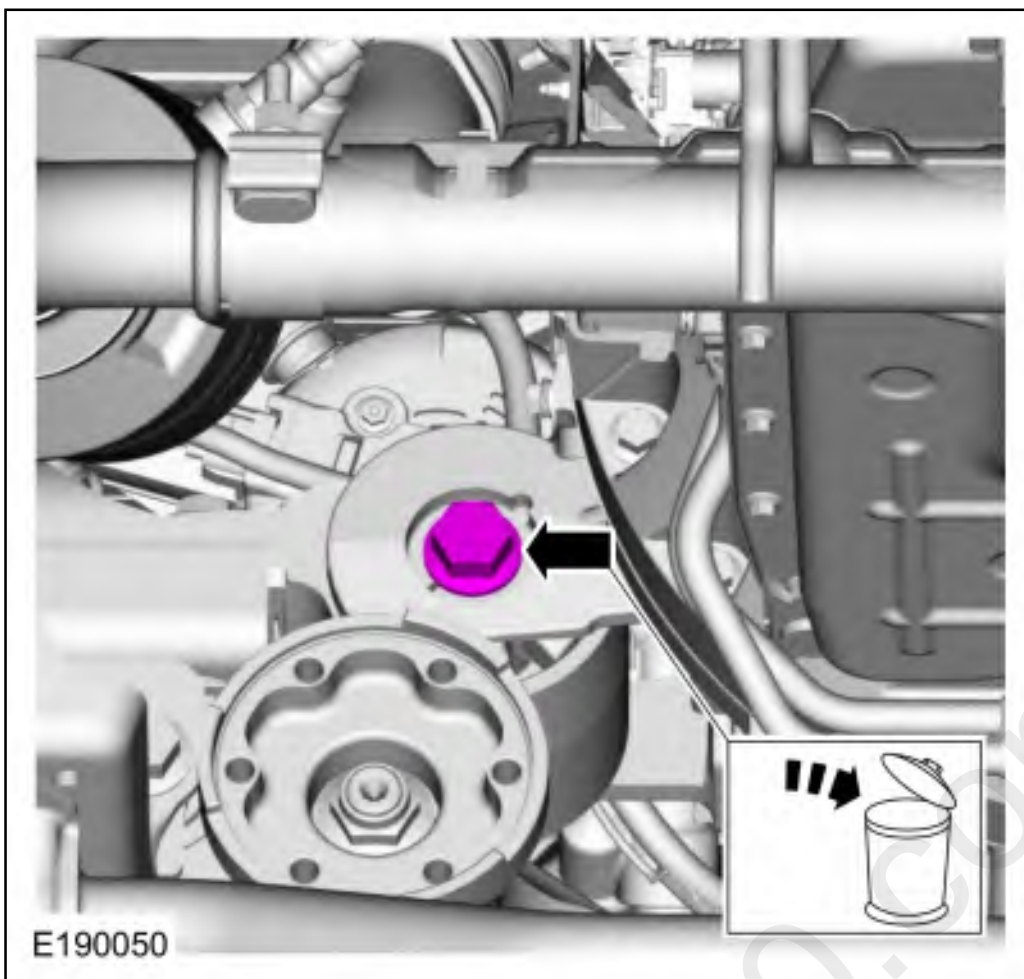
16. **NOTICE:** Only use hand tools when removing the transmission mount-to-crossmember nuts or damage to the transmission mount can occur.

Loosen the transmission mount-to-crossmember nuts.

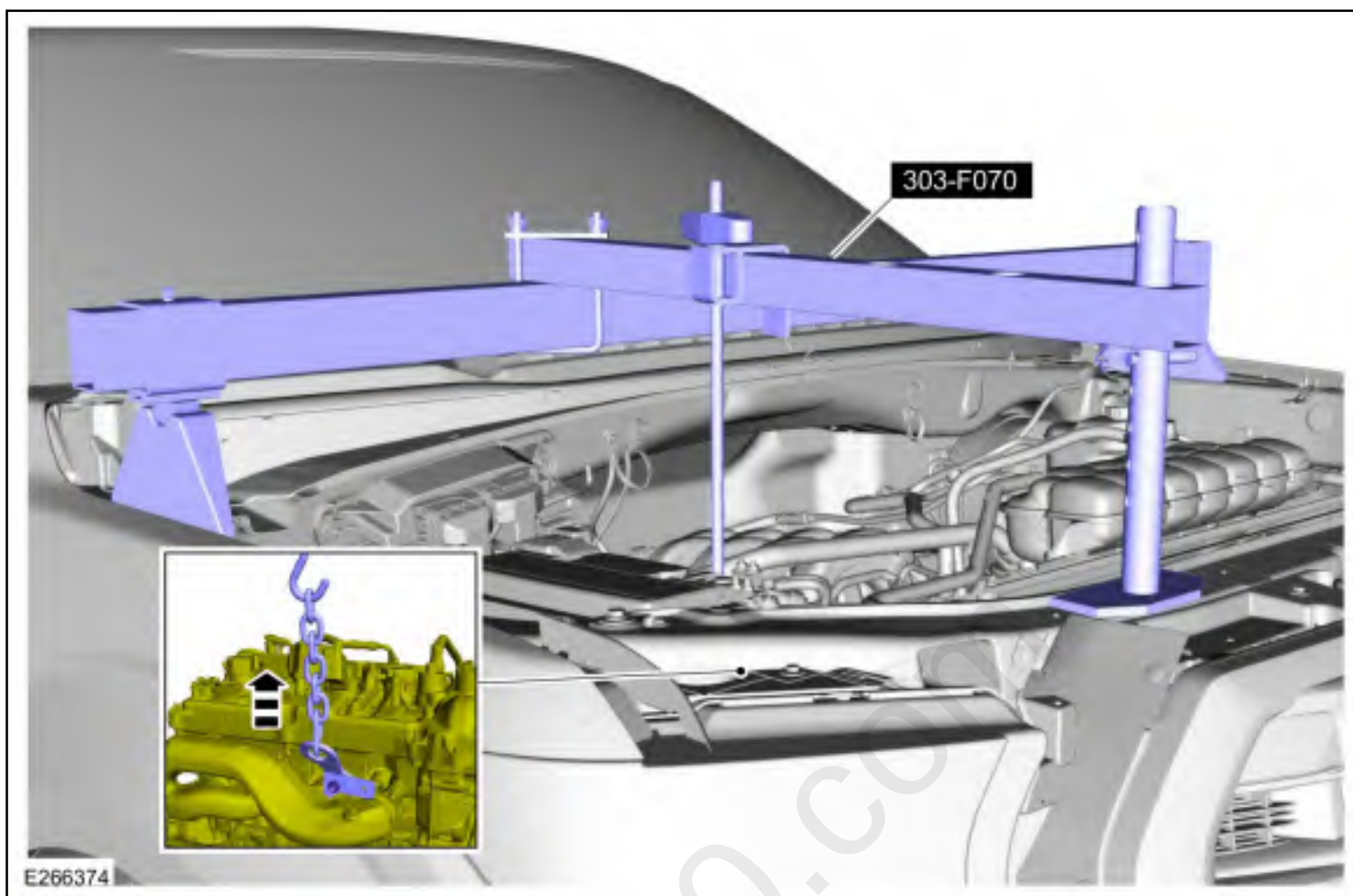


17. **NOTICE:** Only use hand tools when loosening the engine mount through bolts or damage to the engine mount-to-cylinder block bracket can occur.

Remove and discard the LH engine mount through bolt.

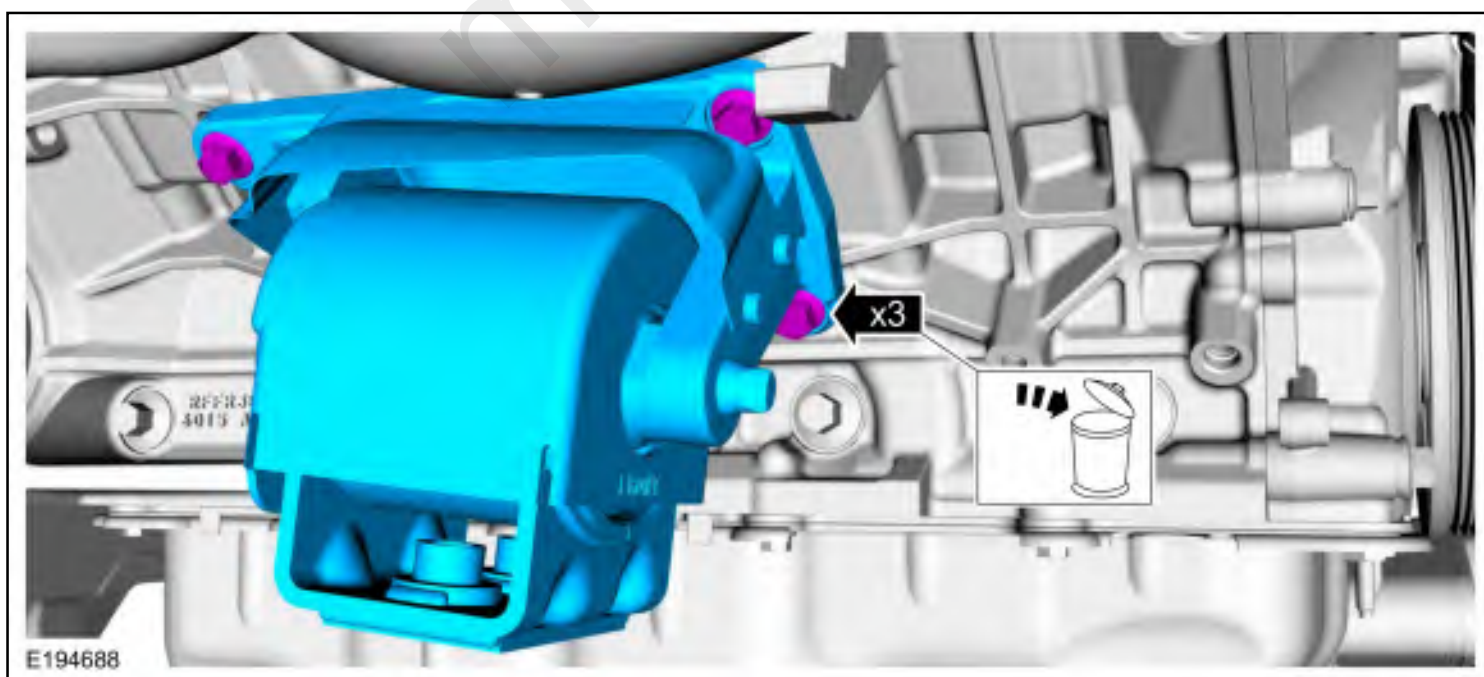


18. Using the special tool, raise the RH side of the engine 50 mm (2 in).
Use Special Service Tool: 303-F070 Support Bar, Engine.



19. Remove and discard the RH engine mount bracket-to-engine bolts.

1. Remove the RH engine mount and bracket as an assembly.
2. Clean the engine mount bracket-to-cylinder block and engine mount-to-frame mating surfaces of any dirt or foreign material prior to installation.

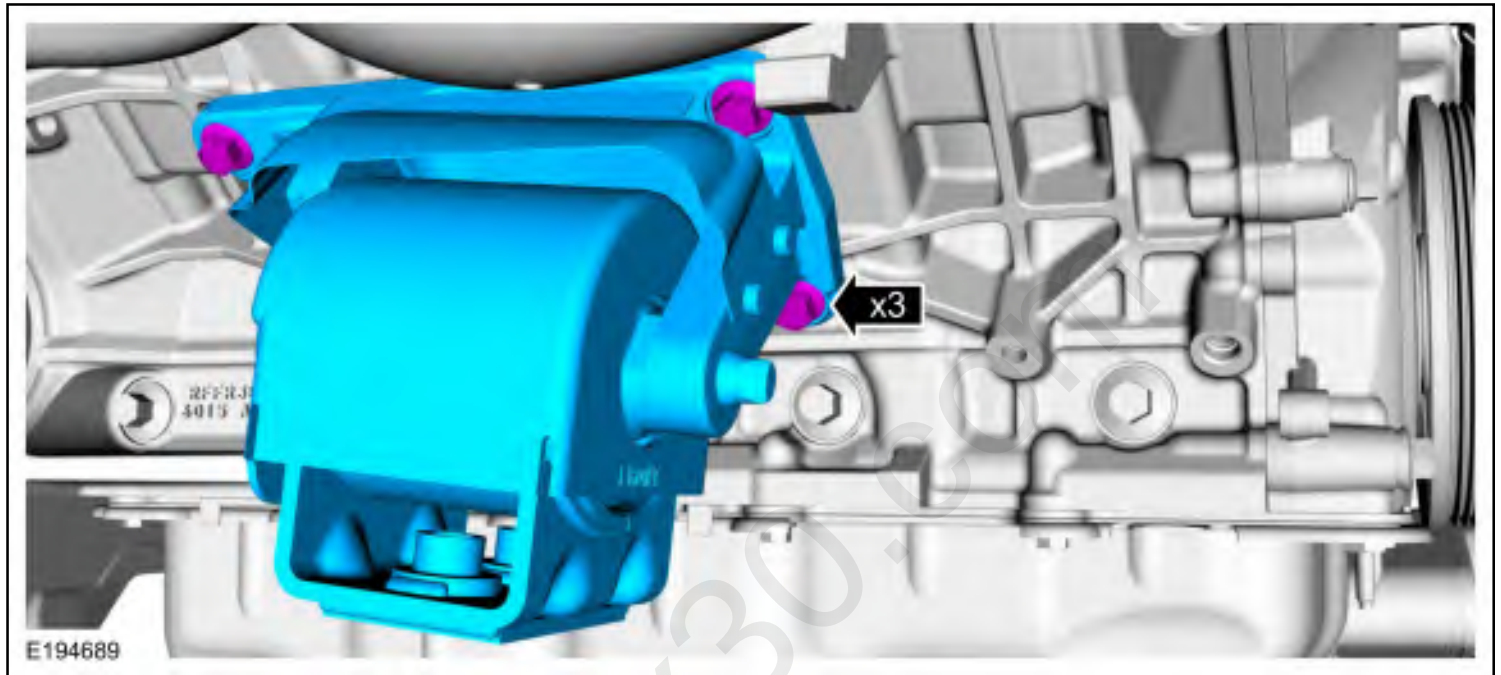


Installation

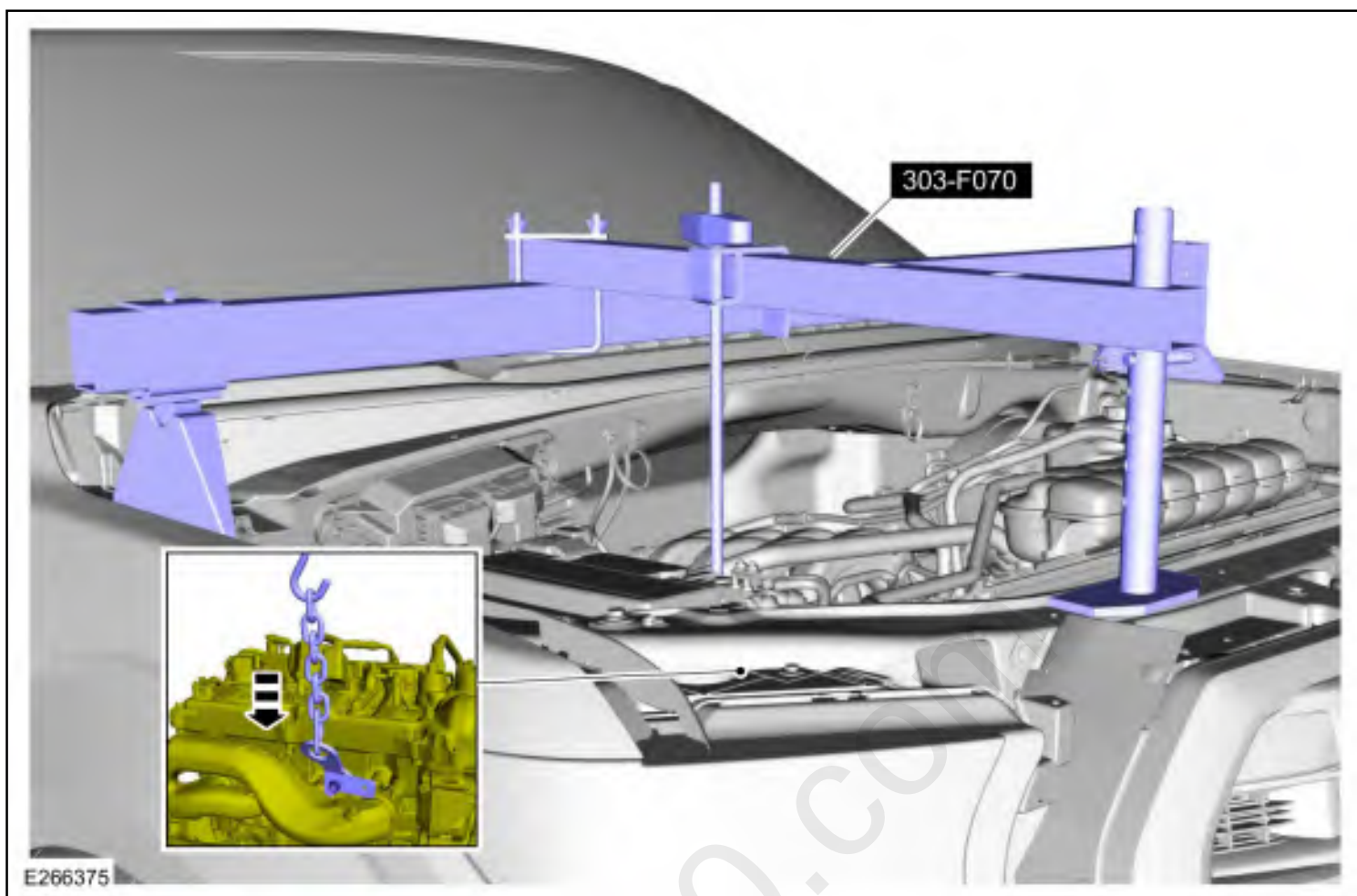
1. **NOTE:** *If a new RH engine mount is installed, remove the 2 studs prior to positioning the assembly in the vehicle.*

Install the RH engine mount and the new bolts.

Torque: 57 lb.ft (77 Nm)



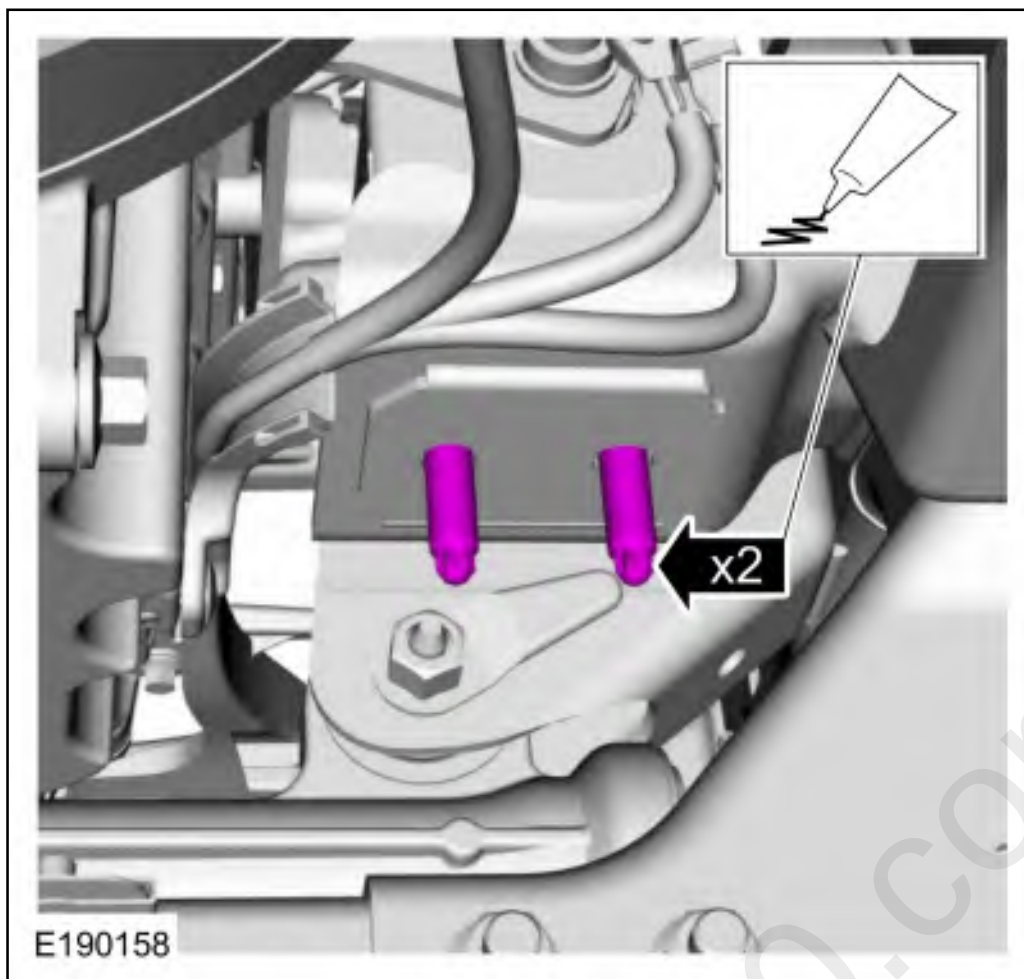
2. Using the special tool, lower the engine to the installed position.
Use Special Service Tool: 303-F070 Support Bar, Engine.



3. **NOTICE:** Only use hand tools when installing the engine mount stud bolts or damage to the engine mount can occur.

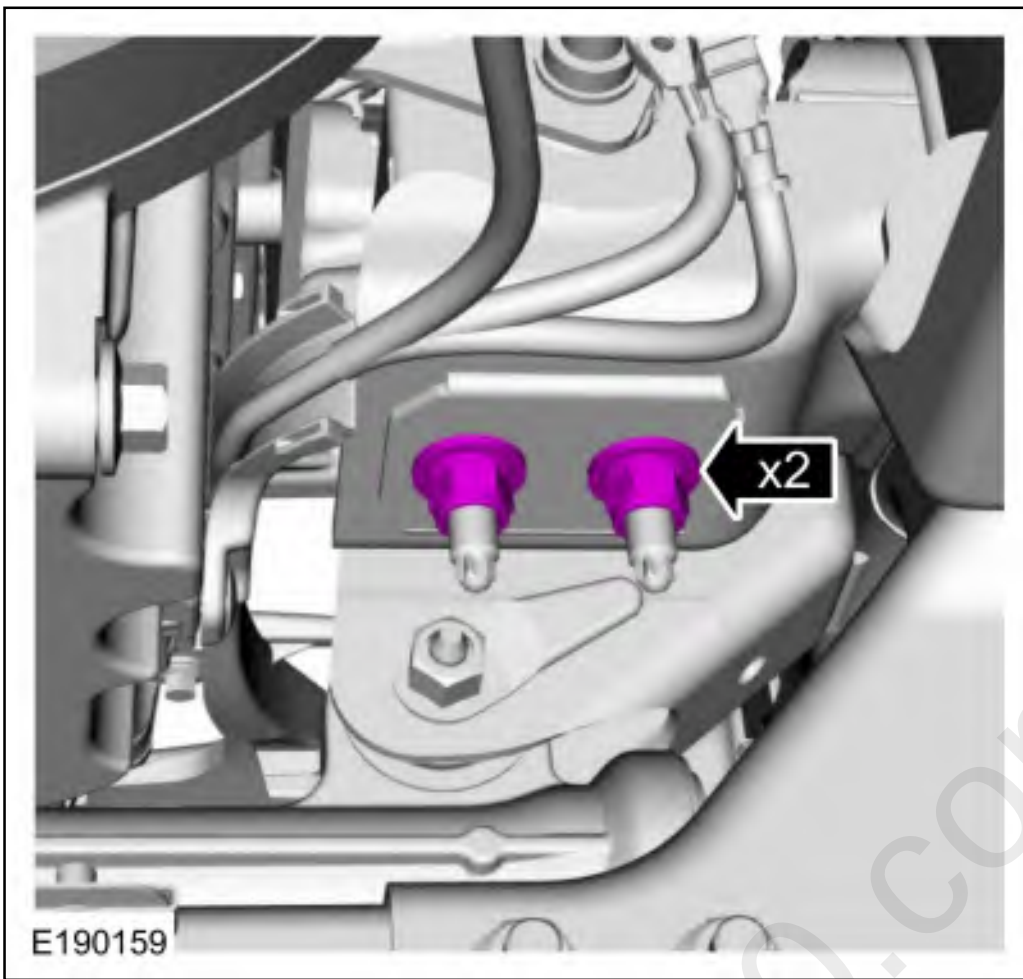
Install the new RH engine mount stud bolts.

Torque: 22 lb.ft (30 Nm)



4. **NOTICE:** Only use hand tools when installing the engine mount nuts or damage to the engine mount can occur.

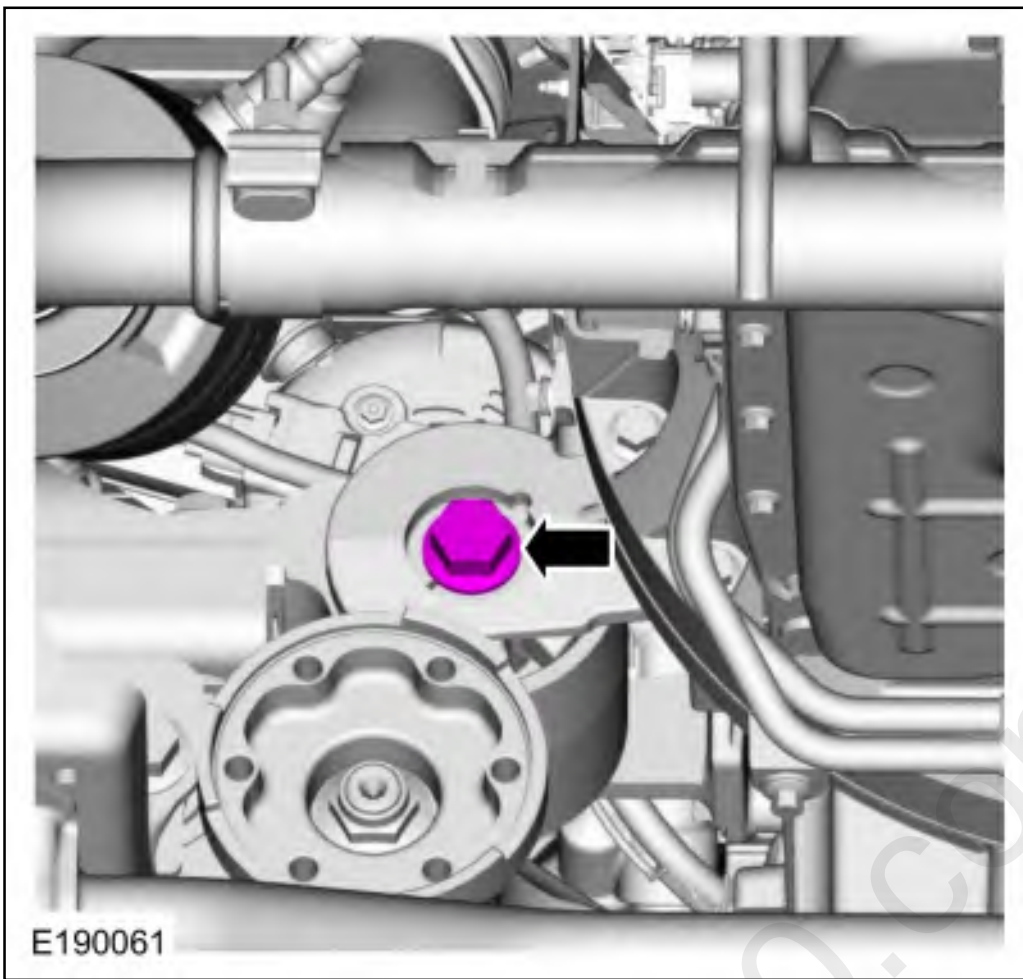
Install the new RH engine mount nuts.
Torque: 111 lb.ft (150 Nm)



5. **NOTICE:** Only use hand tools when tightening the engine mount through bolts or damage to the engine mount-to-cylinder block bracket can occur.

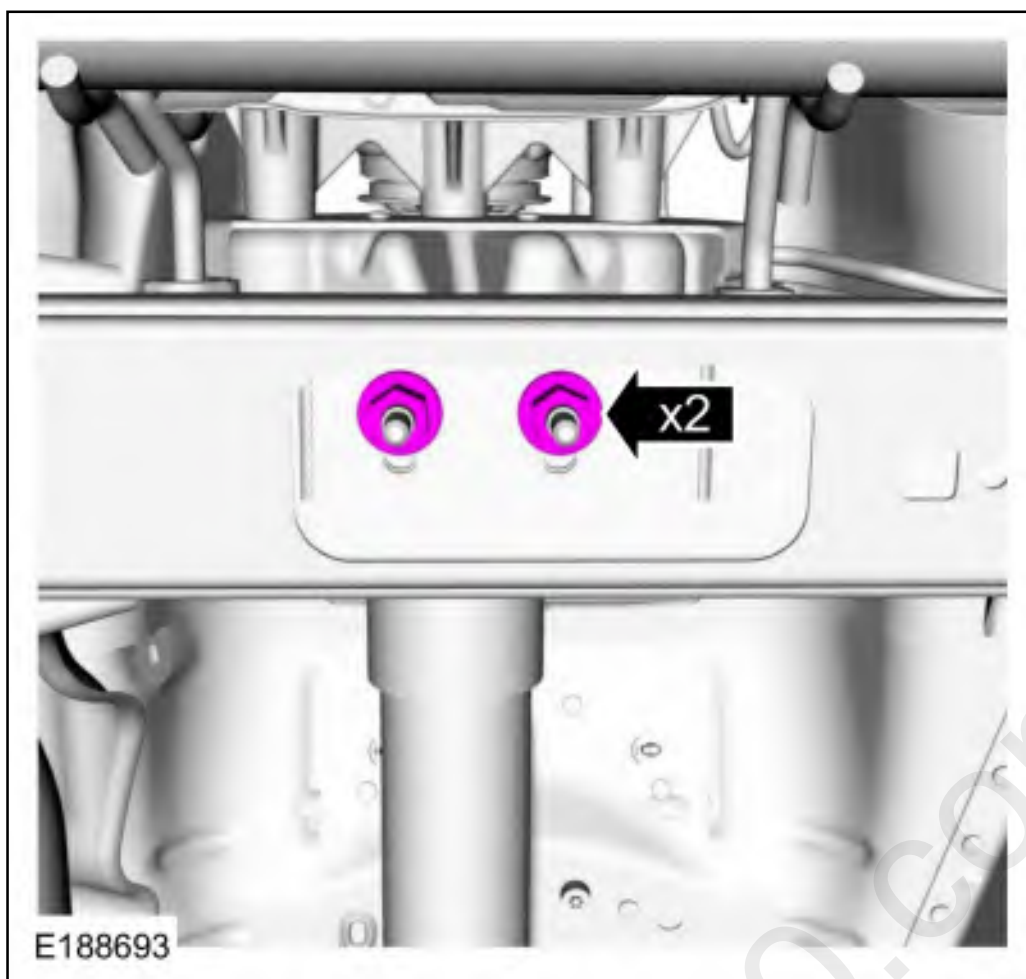
Install the new LH engine mount through bolt.

Torque: 258 lb.ft (350 Nm)

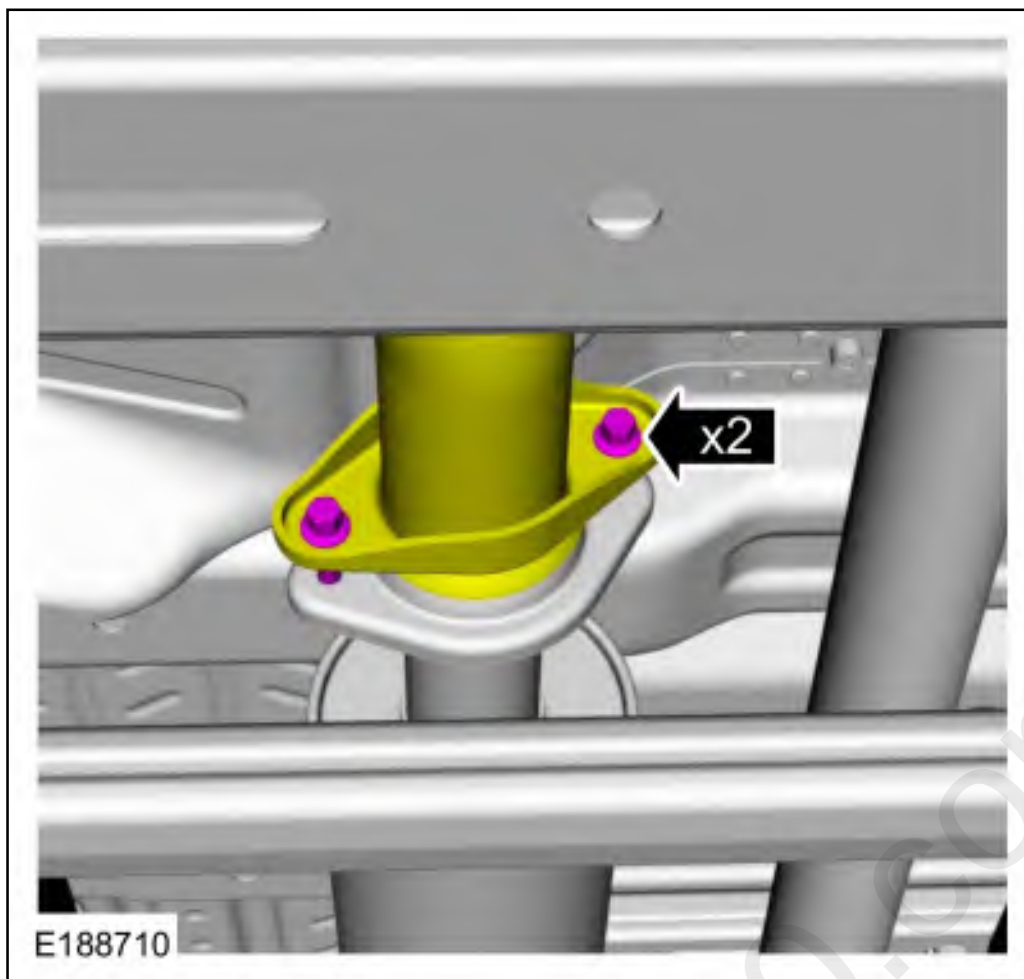


6. **NOTICE:** Only use hand tools when installing the transmission mount-to-crossmember nuts or damage to the transmission mount can occur.

Tighten the transmission mount-to-crossmember nuts.
Torque: 85 lb.ft (115 Nm)



- Position the exhaust Y-pipe dual catalytic converter-to-exhaust intermediate pipe and install the new bolts.
- Tighten the inner exhaust Y-pipe dual catalytic converter-to-exhaust intermediate pipe bolt.
Torque: 46 lb.ft (63 Nm)
- Tighten the outer exhaust Y-pipe dual catalytic converter-to-exhaust intermediate pipe bolt.
Torque: 46 lb.ft (63 Nm)



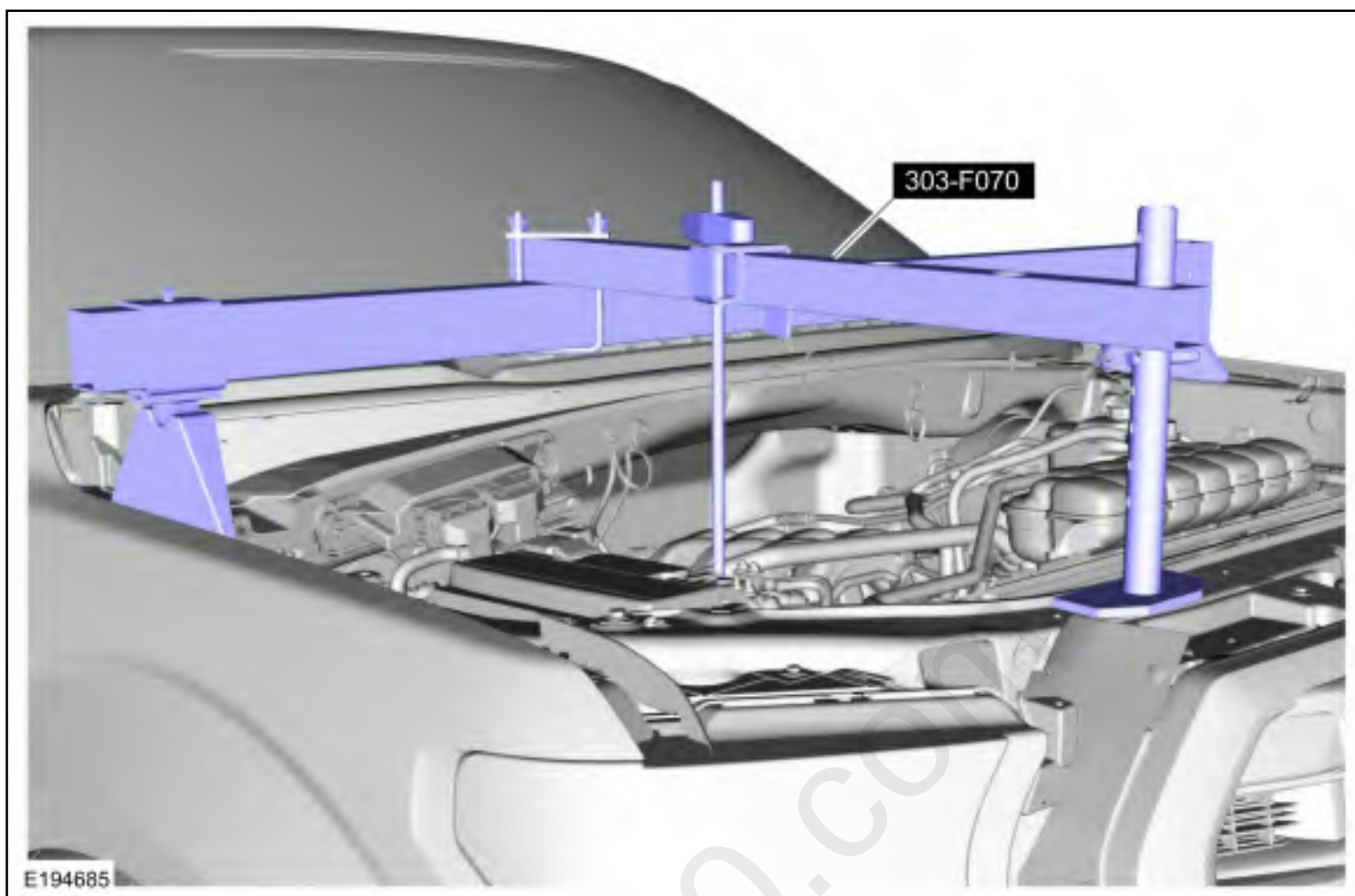
8. Install the following items:

1. If equipped.

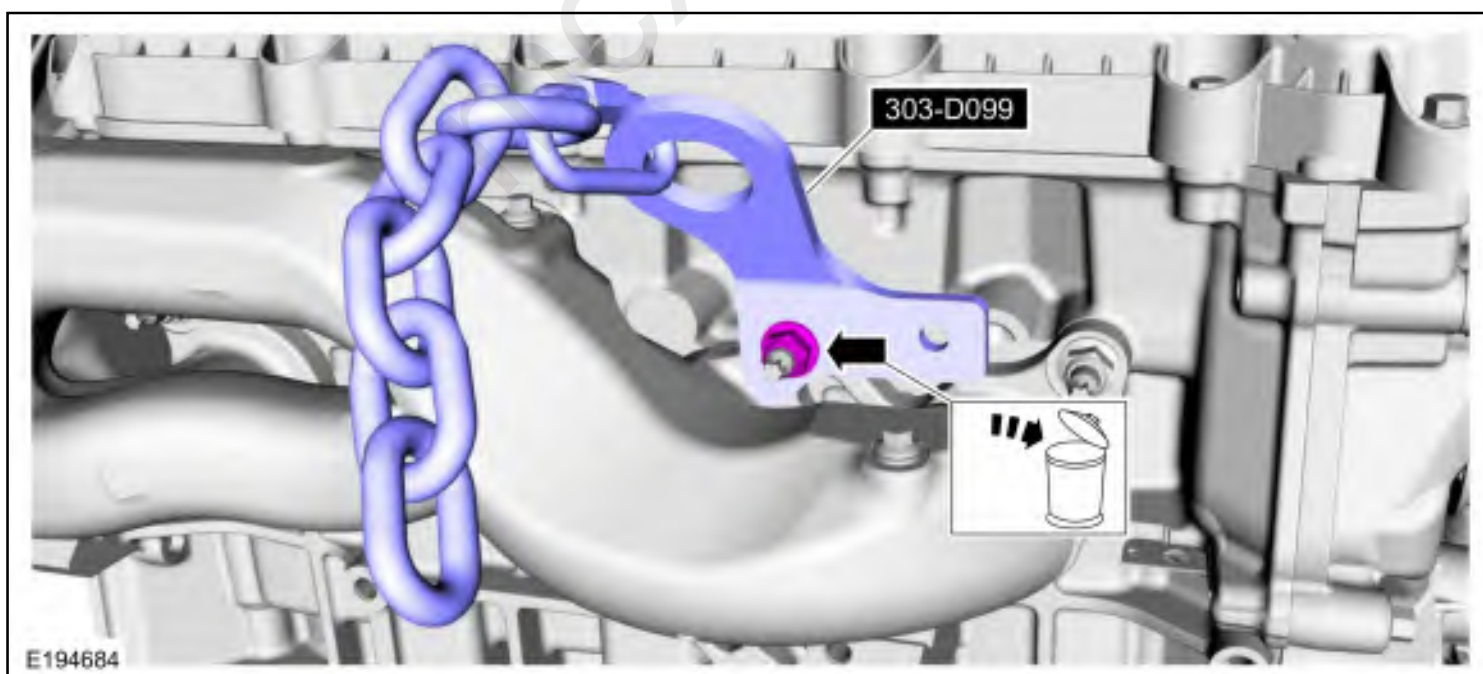
Refer to: [Front Driveshaft](#) (205-01 Driveshaft, Removal and Installation).

2. Refer to: Starter Motor (303-06 Starting System - 5.0L 32V Ti-VCT) .

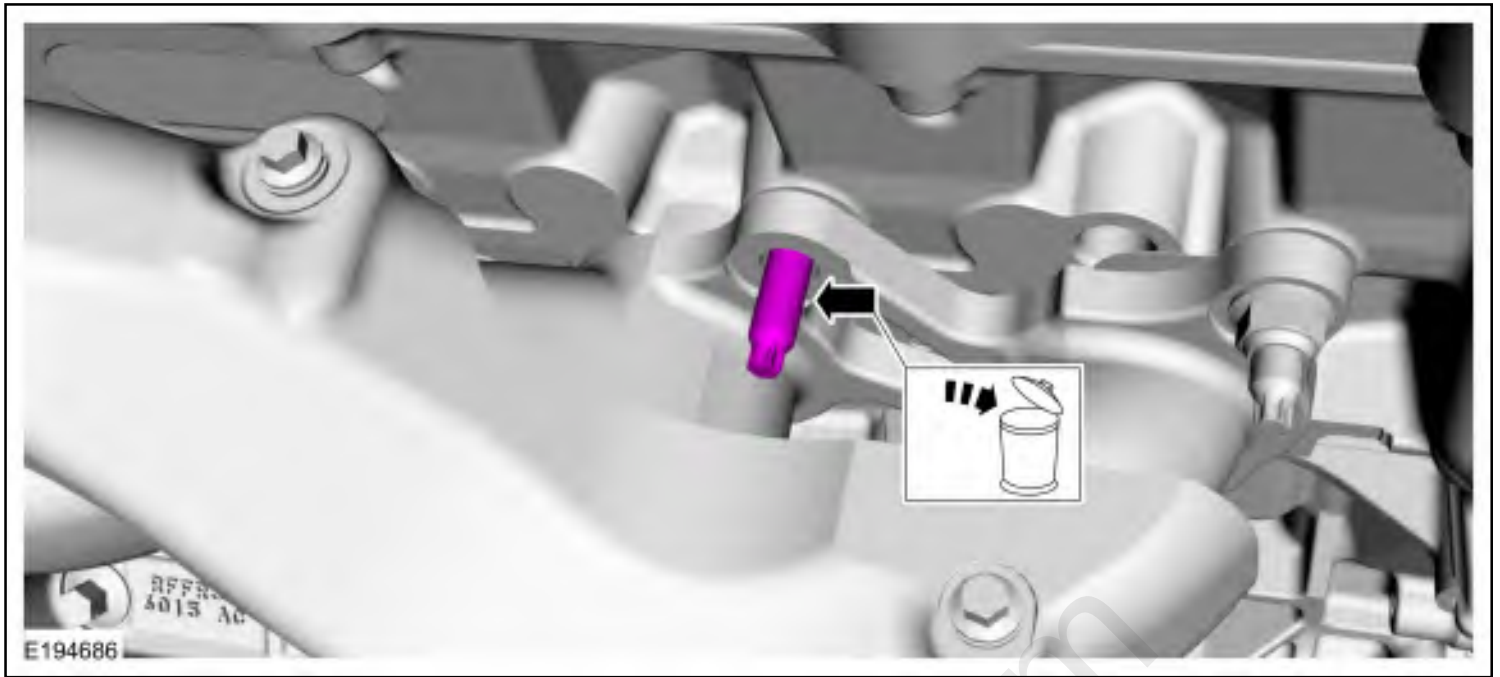
9. Remove Special Service Tool: 303-F070 Support Bar, Engine.



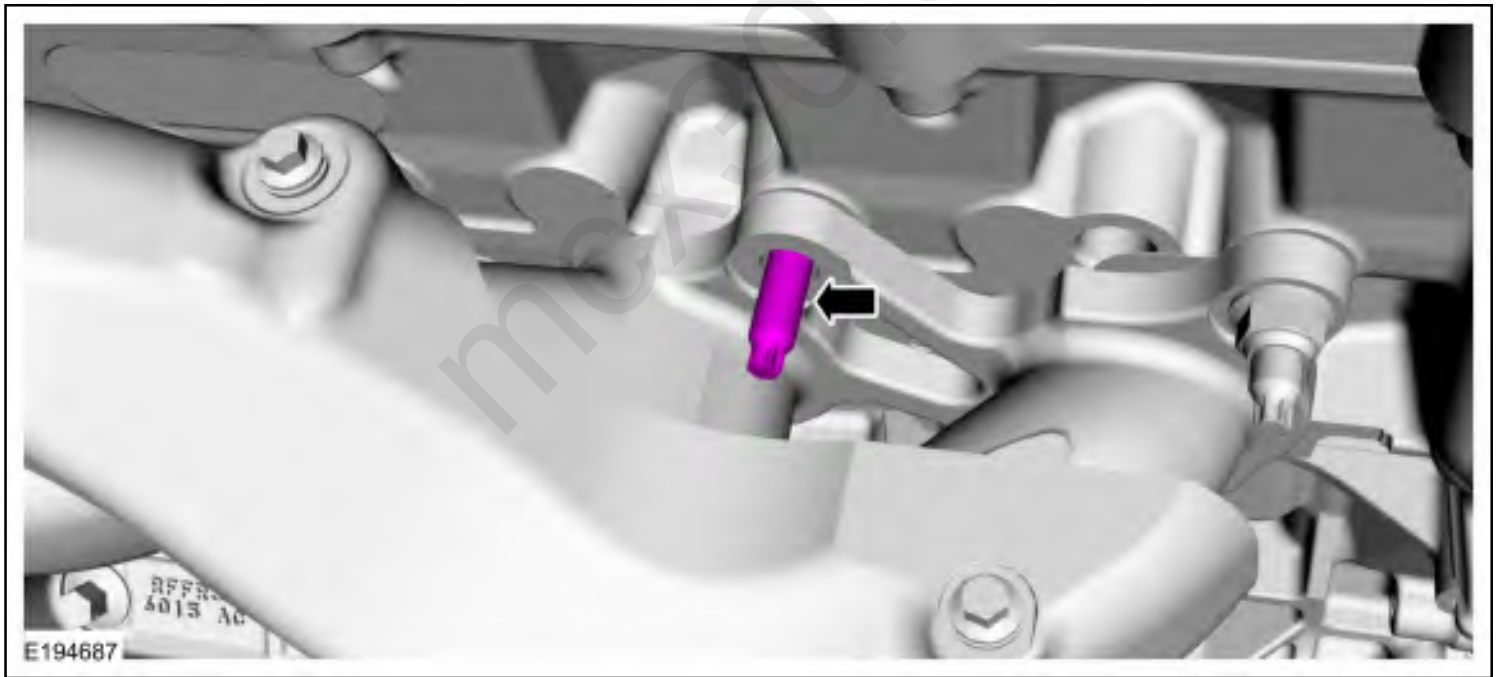
10. Remove and discard the exhaust manifold nut.
Remove Special Service Tool: 303-D099 (D94T-6000-C) Lifting Bracket, Engine.



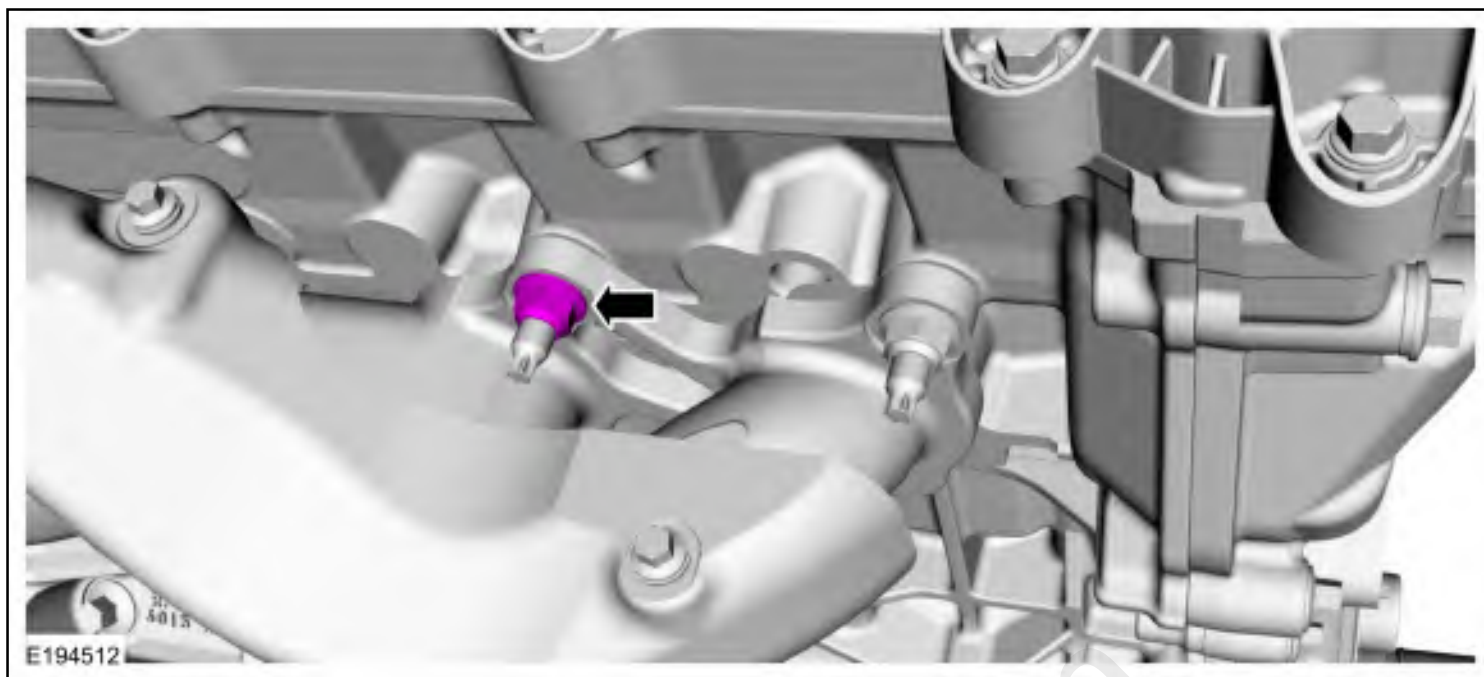
11. Remove and discard the exhaust manifold stud.



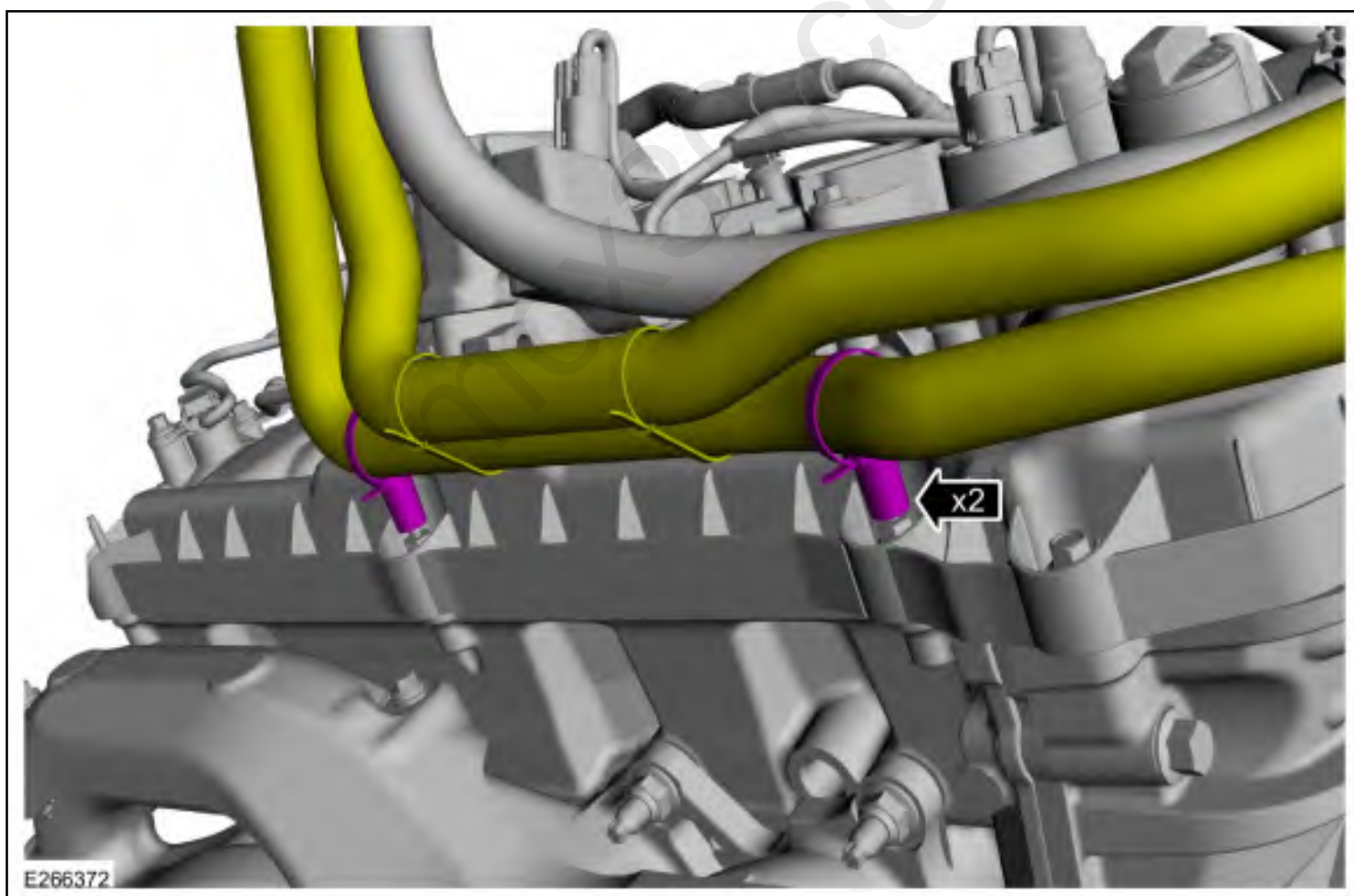
12. Install a new exhaust manifold stud.
Torque: 18 lb.ft (25 Nm)



13. Install a new exhaust manifold nut.
Torque:
Stage 1: 18 lb.ft (24 Nm)
Stage 2: 24 lb.ft (32 Nm)



14. Attach the heater hose retainers.



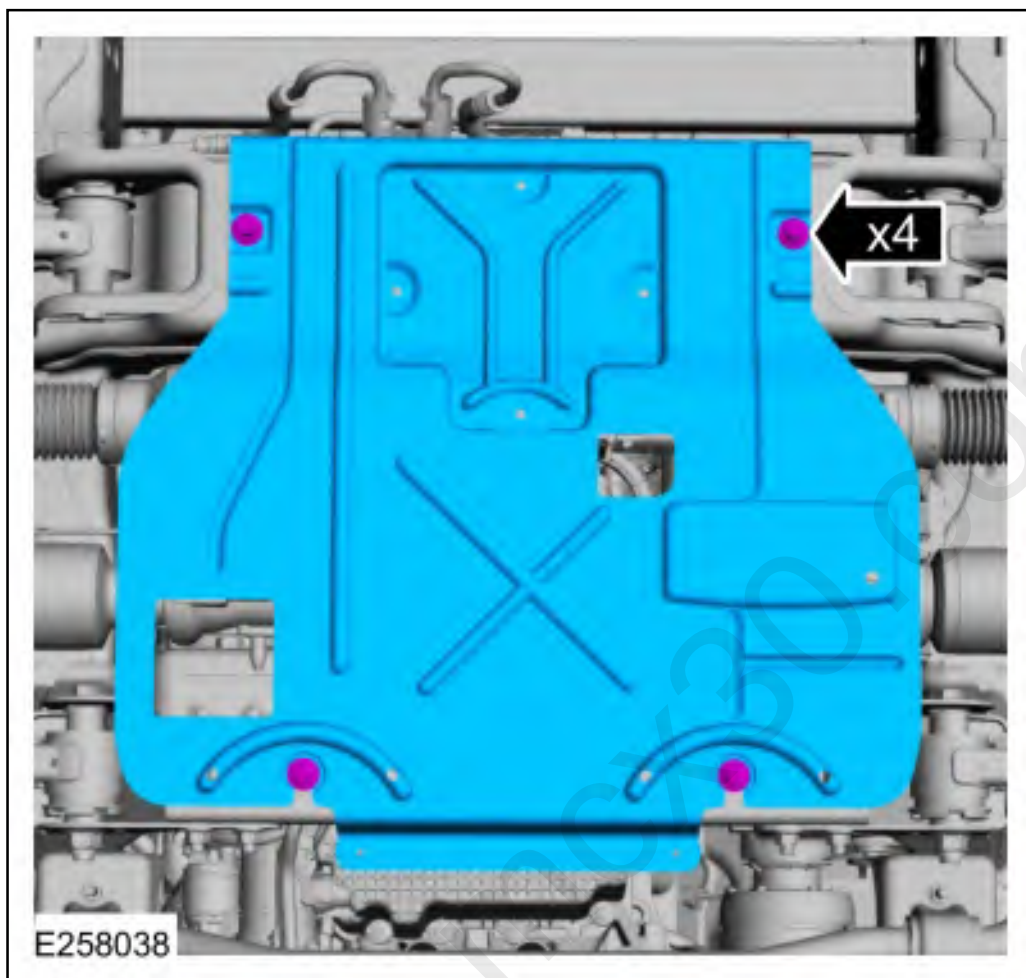
15. Install the A/C compressor.

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

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

Install the skid plate and bolts.

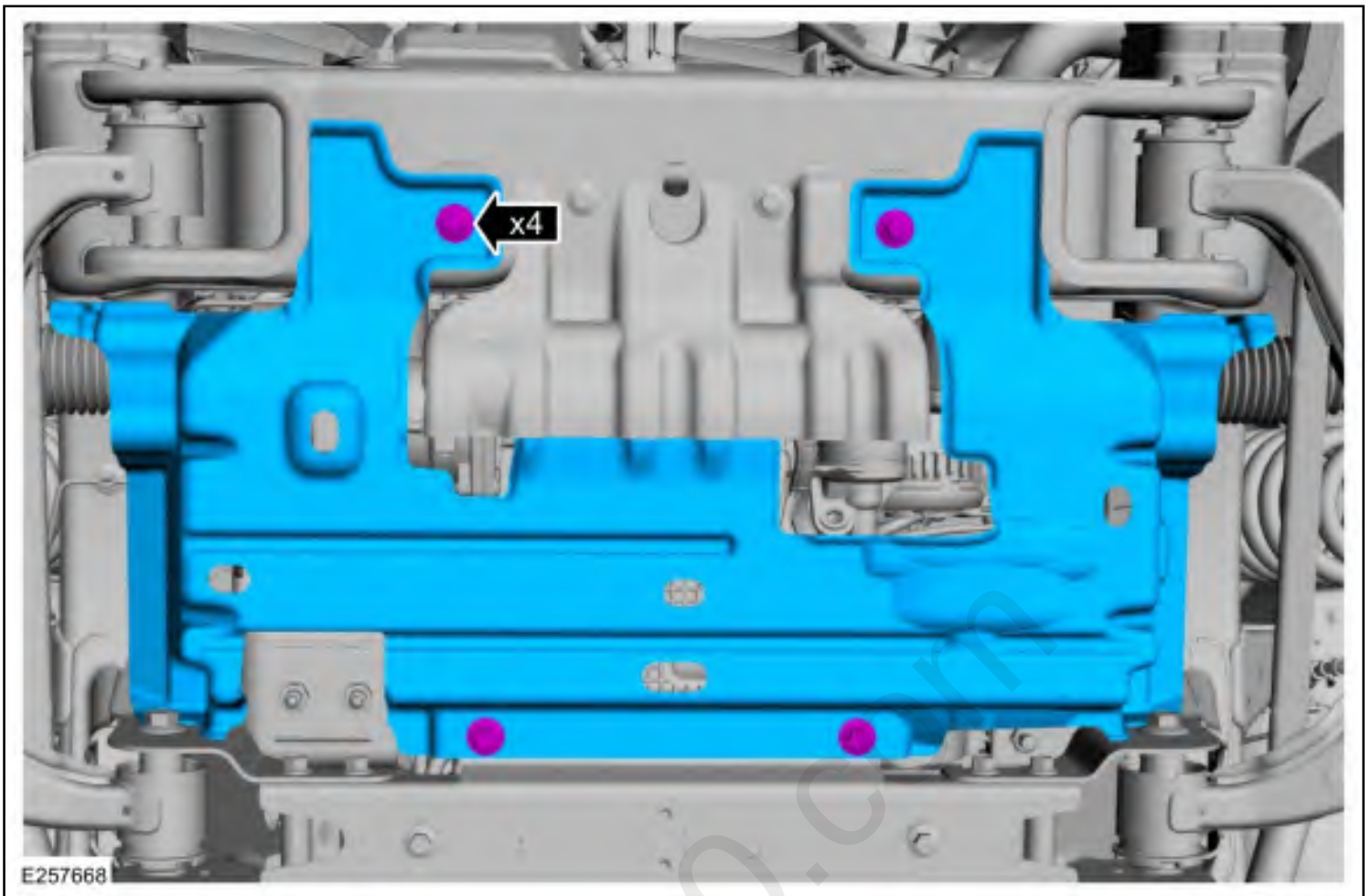
Torque: 30 lb.ft (40 Nm)



17. **NOTE:** *If equipped.*

Install the underbody shield and fasteners.

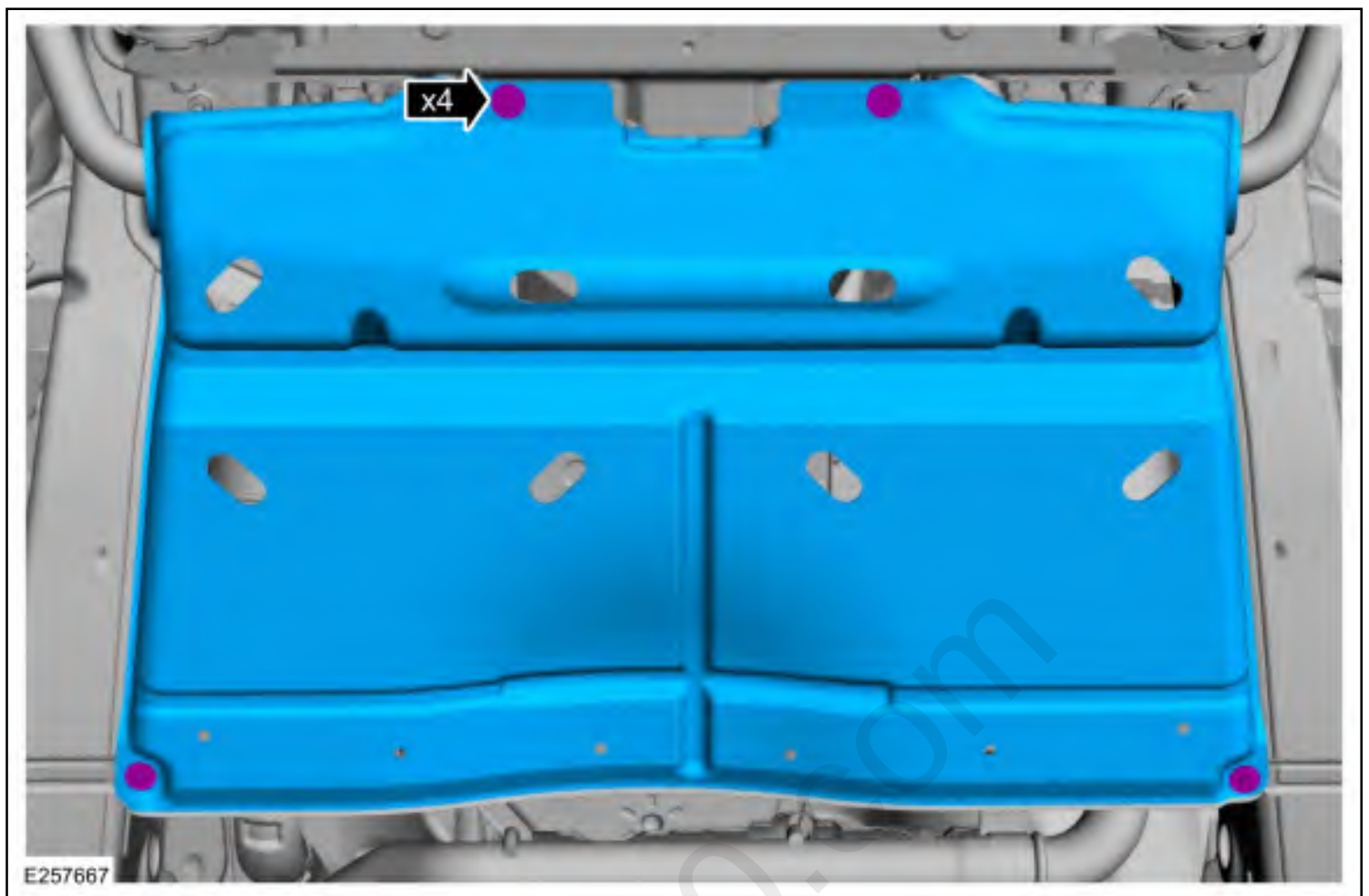
Torque: 30 lb.ft (40 Nm)



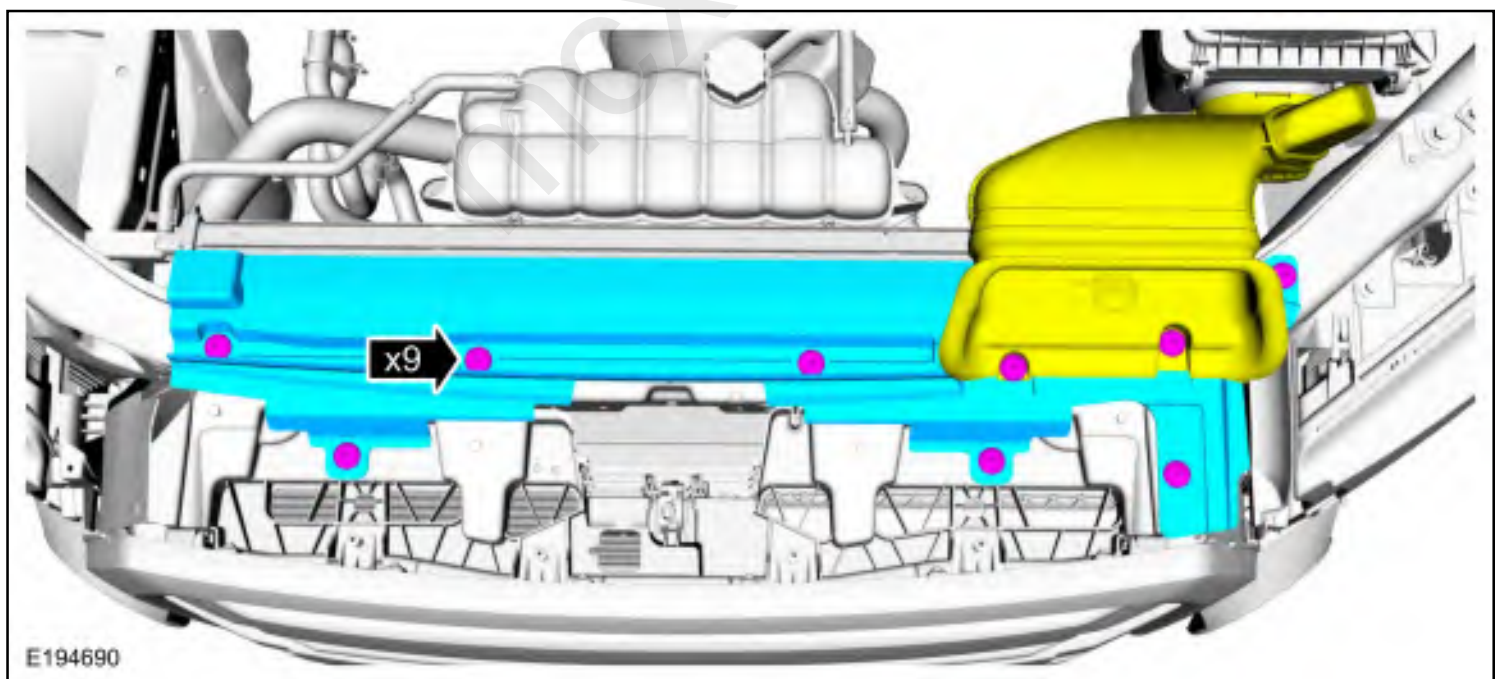
18. **NOTE:** *If equipped.*

Install the underbody shield and the bolts.

Torque: 71 lb.in (8 Nm)

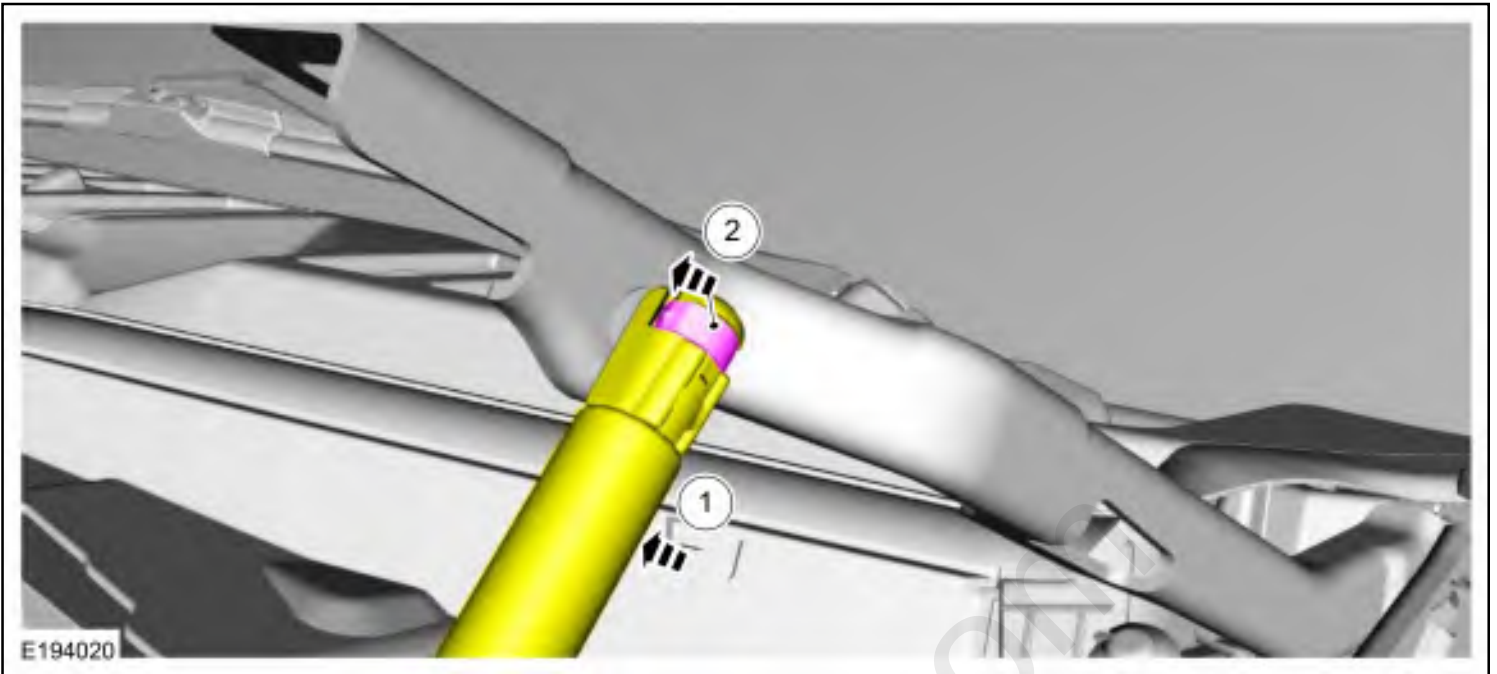


19. Install the radiator top shield and fasteners.



20. **NOTE:** LH shown, RH similar.

1. Position the hood shock and attach.
2. Install the clip.



21. Install the hood.

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

22. Start engine and check exhaust system for leaks.