

303-01 Engine - 2.3L EcoBoost (201kW/273PS)
Removal and Installation

2019 Ranger
Procedure revision date: 01/4/2019

Engine Mount RH

Base Part Number: 6038

Special Tool(s) / General Equipment



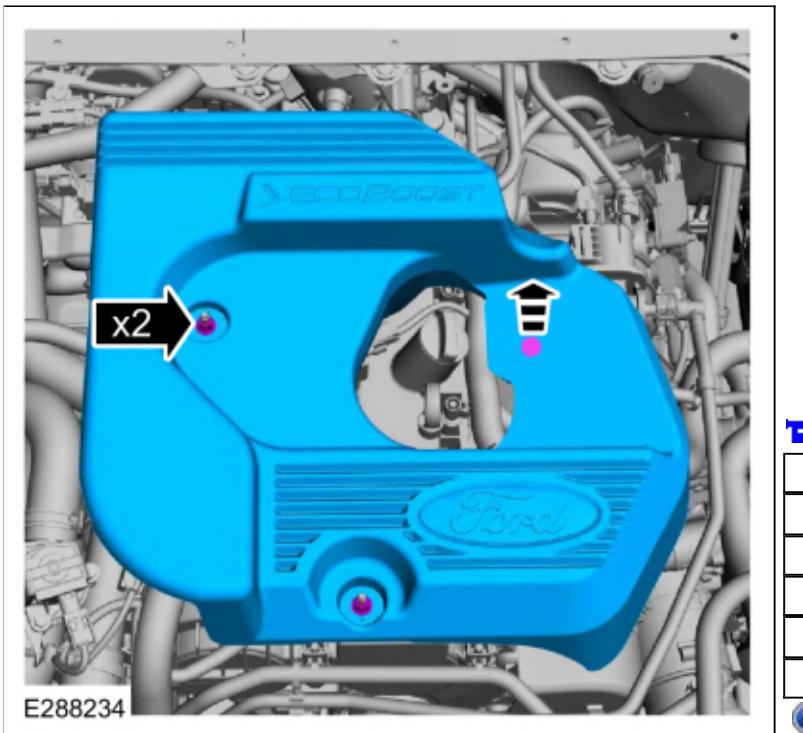
Materials

Name	Specification
Motorcraft® Silicone Brake Caliper Grease and Dielectric Compound XG-3-A	ESE-M1C171-A

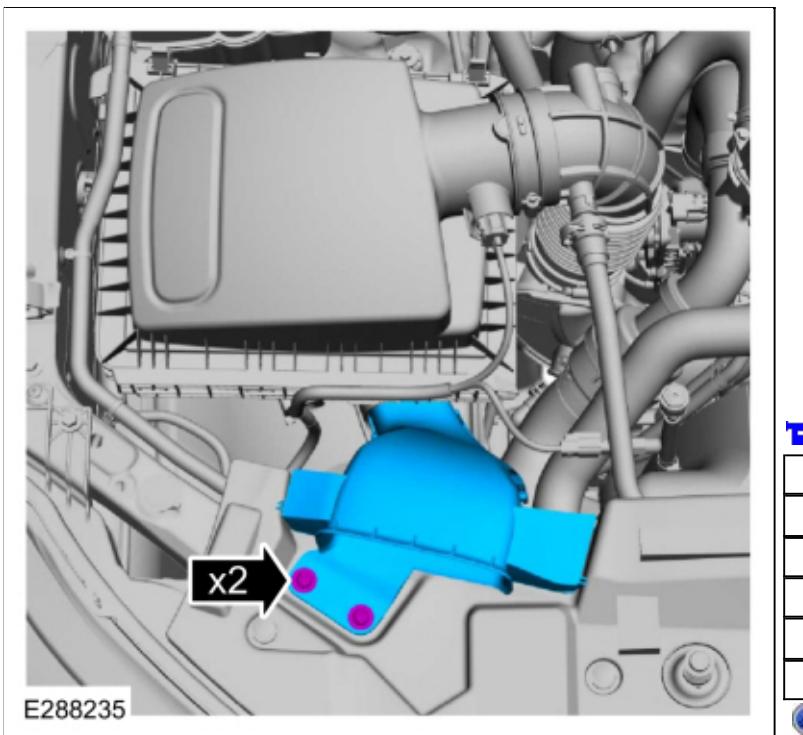
Removal

LHD 4WD/LHD RWD

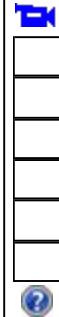
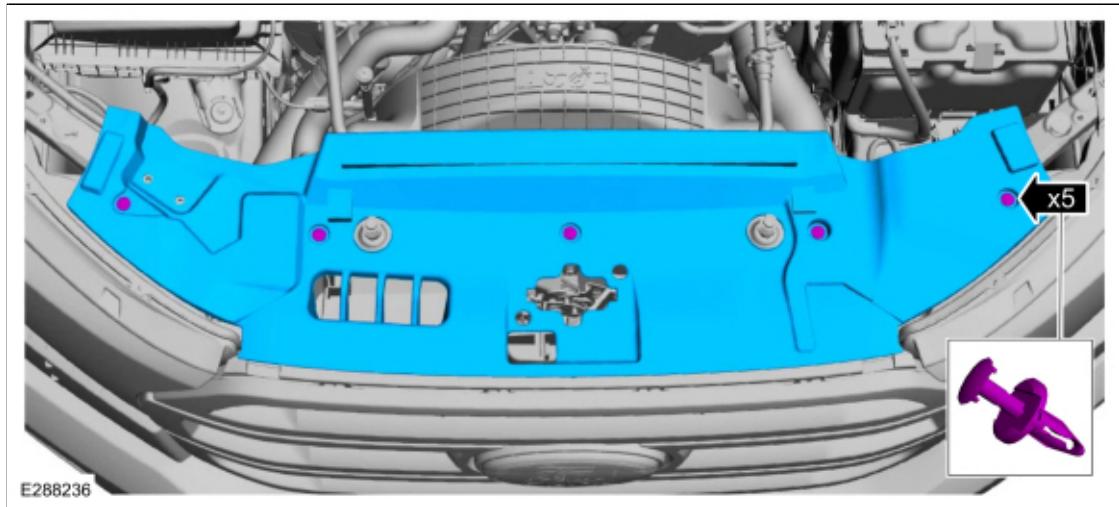
1. With the vehicle in NEUTRAL, position it on a hoist.
Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).
2. **NOTICE: Do not pull the engine appearance cover forward or sideways to remove. Failure to press straight upward on the underside of the cover at the attachment points may result in damage to the cover or engine components.**
 1. Remove the engine appearance cover nuts.
 2. Place your hand under the engine appearance cover at each grommet location and push straight up to release each grommet from the studs.
 3. After all of the grommets have been released from the studs, remove the appearance cover from the engine.



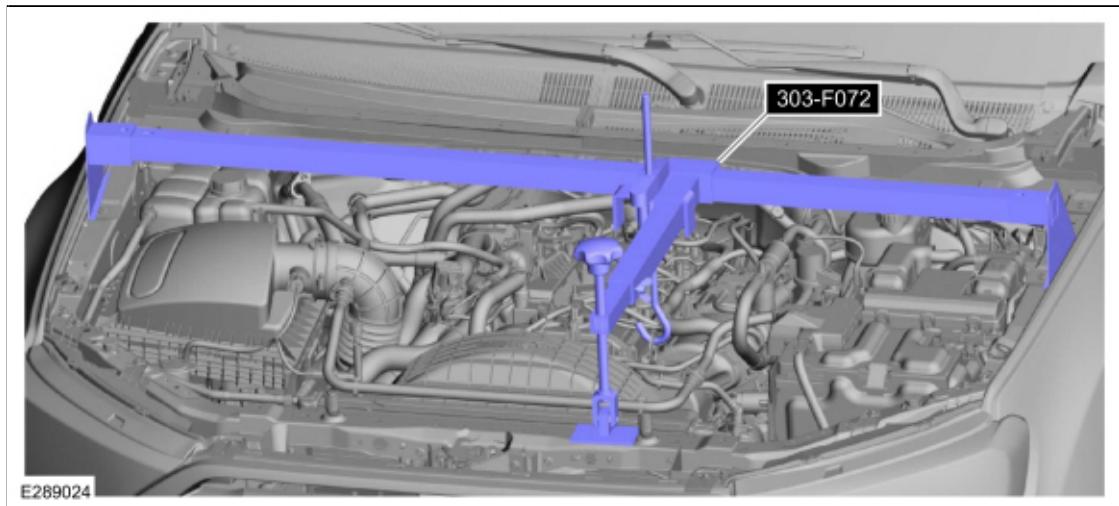
3. Remove the bolts and the air cleaner inlet pipe.



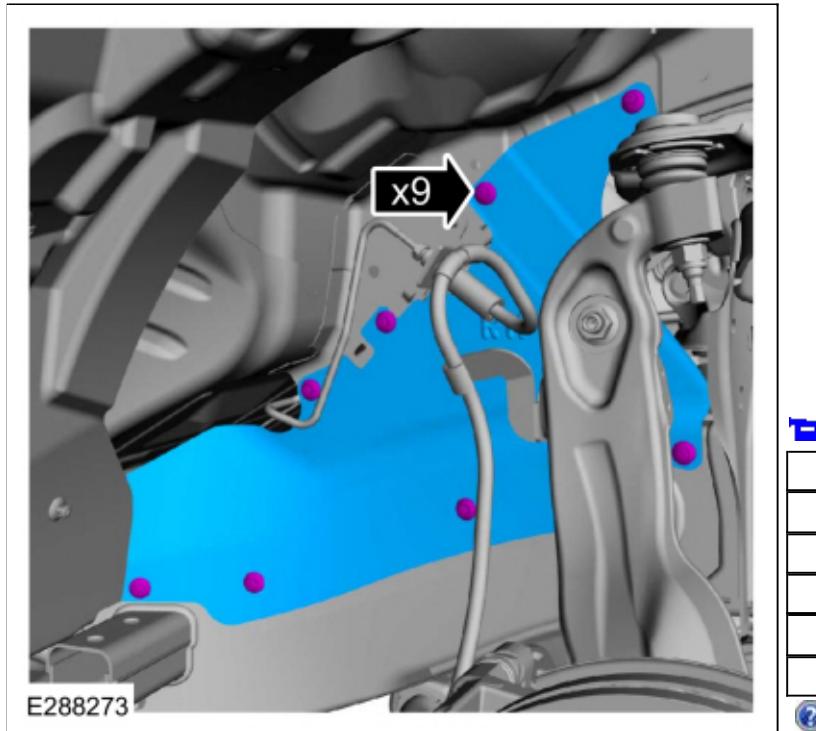
4. Remove the retainers and the upper air deflector.



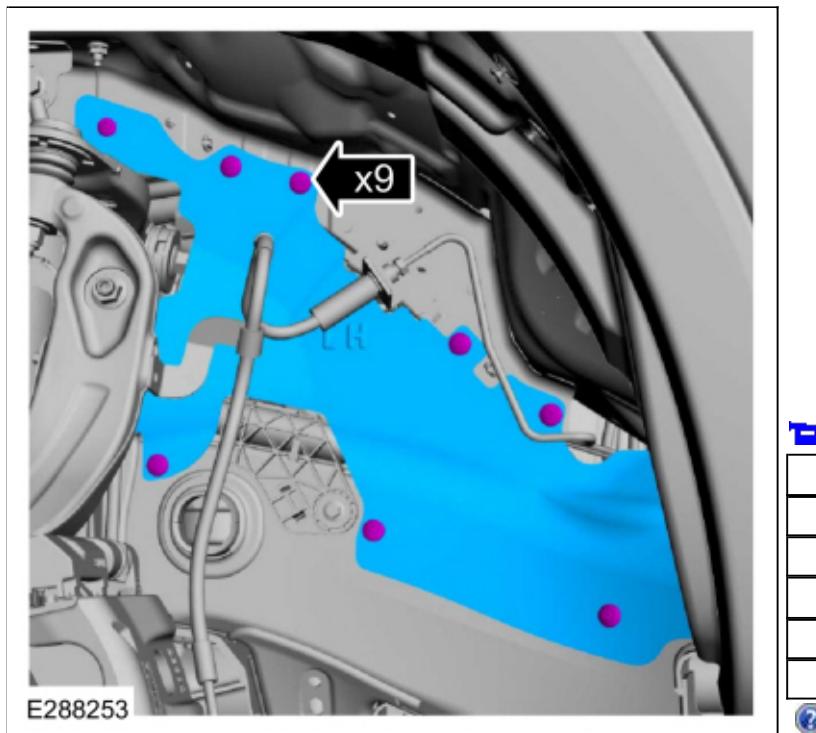
5. Install the 3 bar support.
Install Special Service Tool: [303-F072 Support Bar, Engine](#).



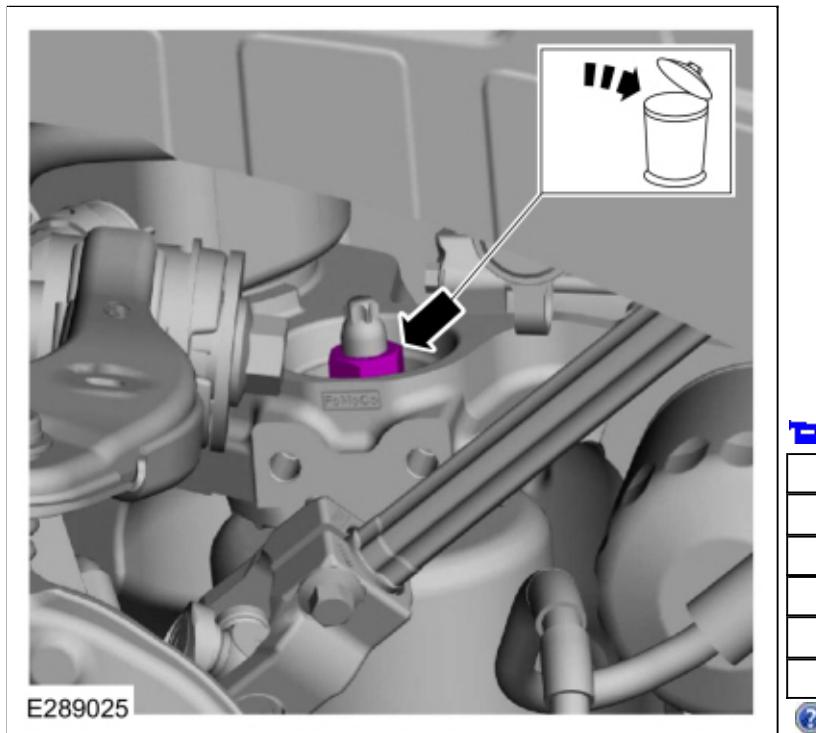
6. Remove RH front wheels and tire.
Refer to: [Wheel and Tire](#) (204-04A Wheels and Tires, Removal and Installation).
7. Remove the retainers and the RH fender splash shield

**LHD 4WD**

8. Remove LH front wheel and tire.
Refer to: [Wheel and Tire](#) (204-04A Wheels and Tires, Removal and Installation).
9. Remove the retainers LH fender splash shield.

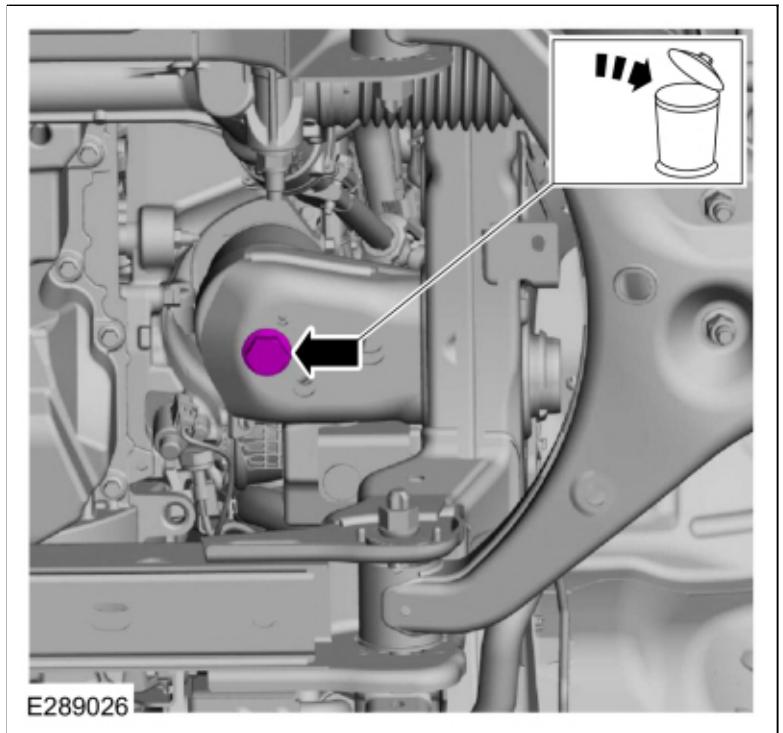


10. Remove and discard the LH engine mount nut.



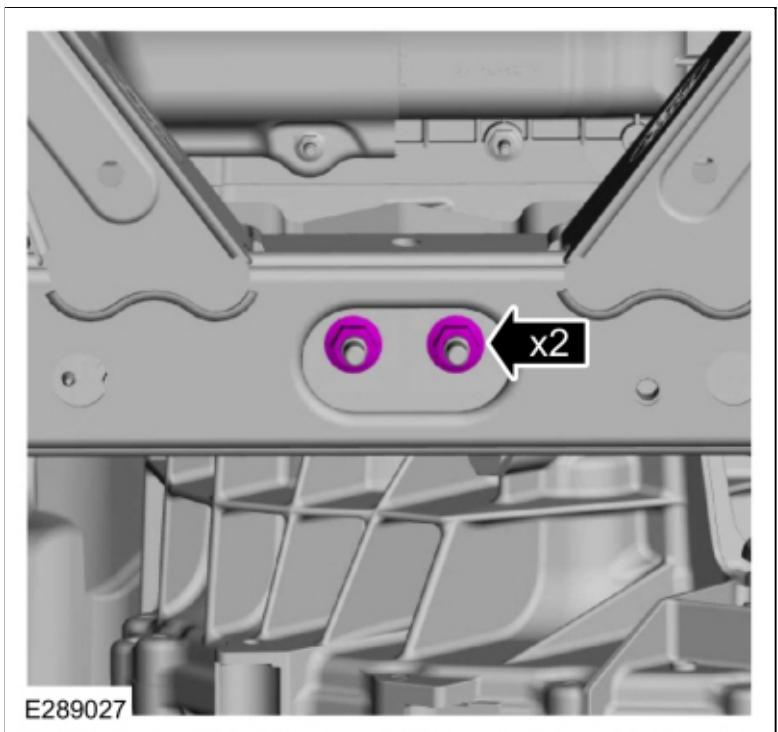
LHD FWD

11. Remove and discard the LH engine mount bolt.



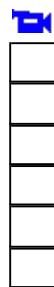
LHD 4WD/LHD RWD

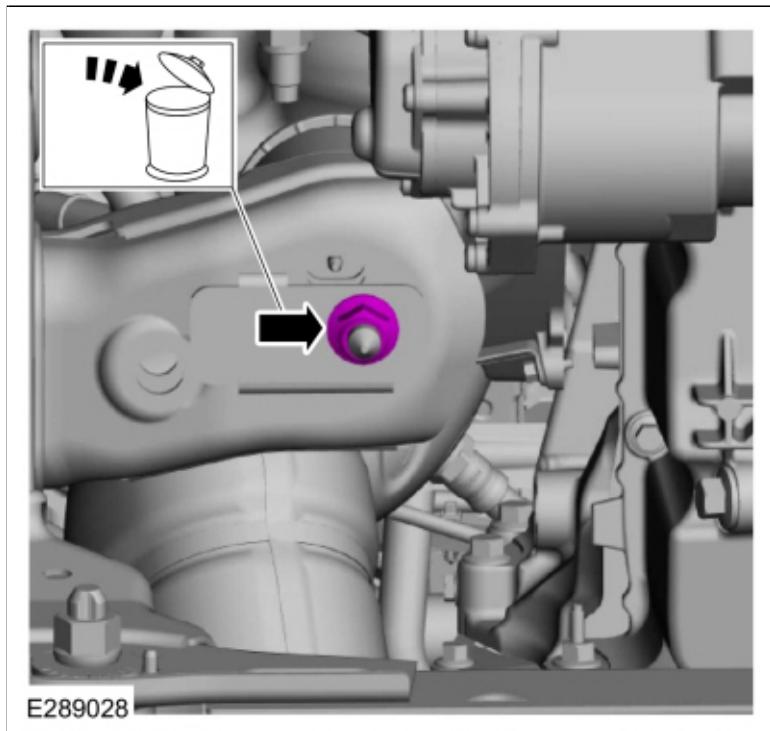
12. Loosen the transmission mount nuts.



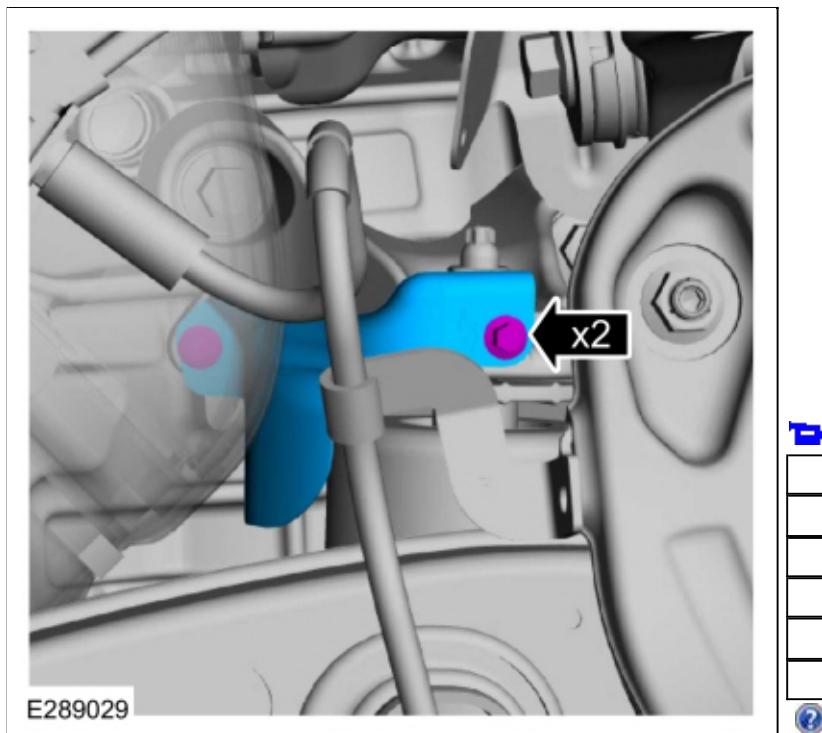
13. **NOTE: RWD shown, 4x4 similar.**

Remove and discard the RH engine mount nut.

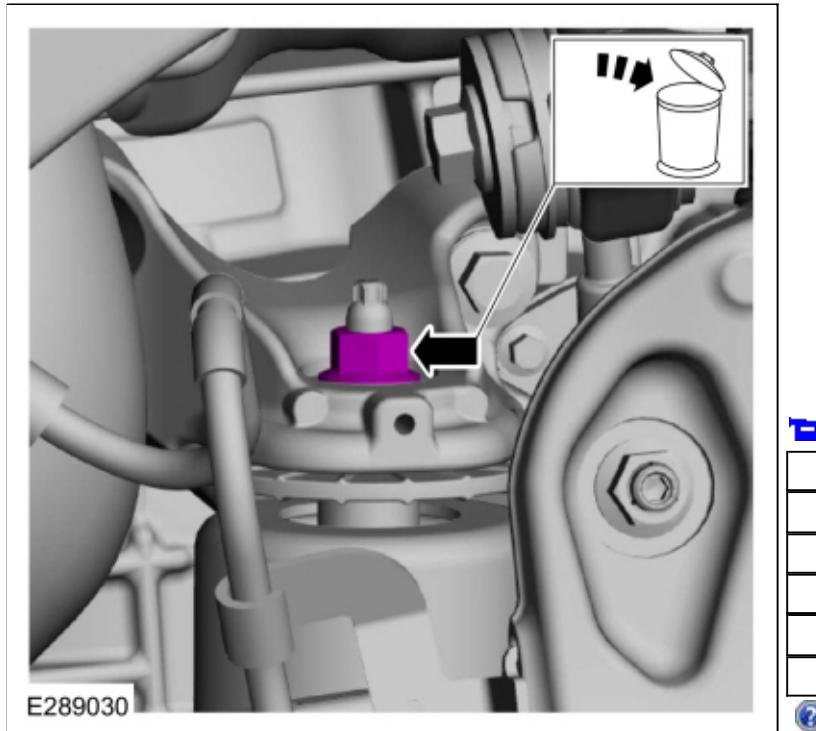




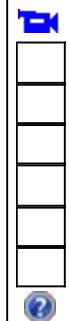
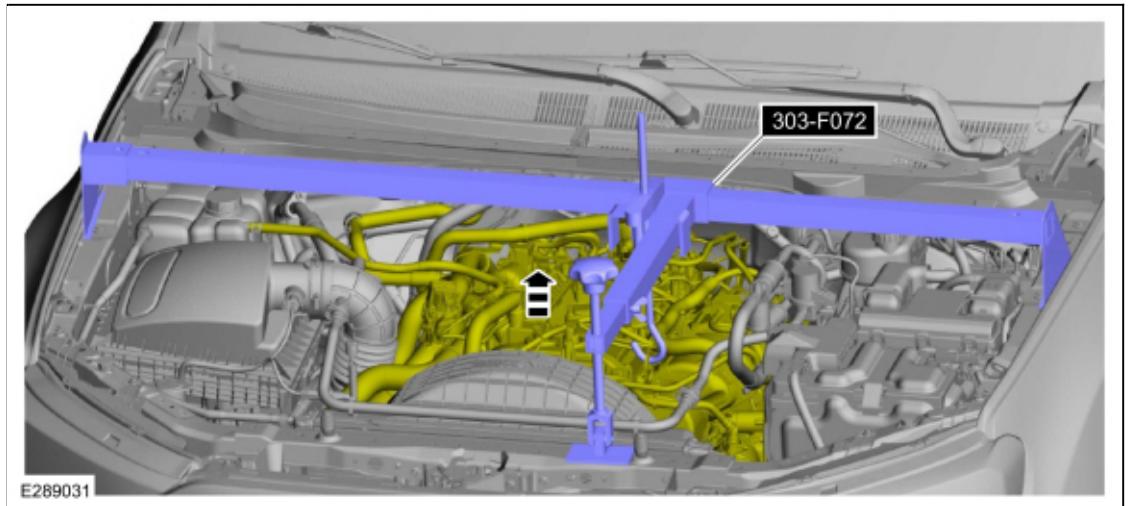
14. Remove the bolts and the heat shield.



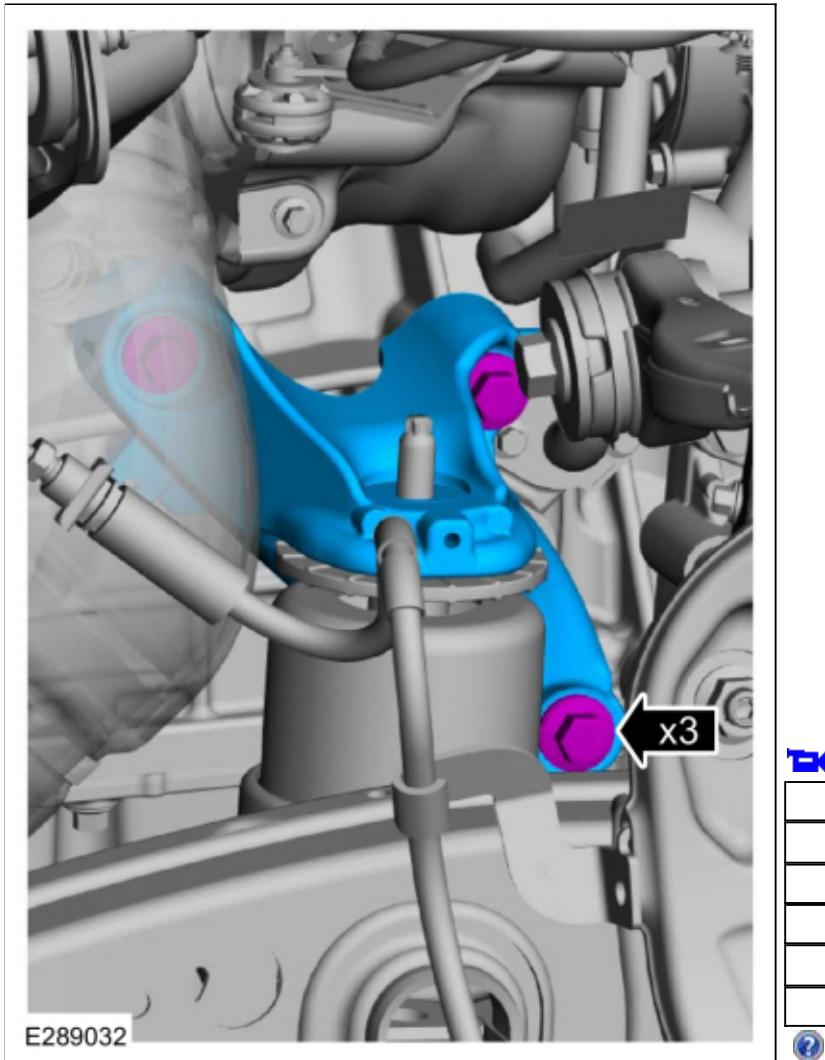
15. Remove and discard the RH engine mount nut.



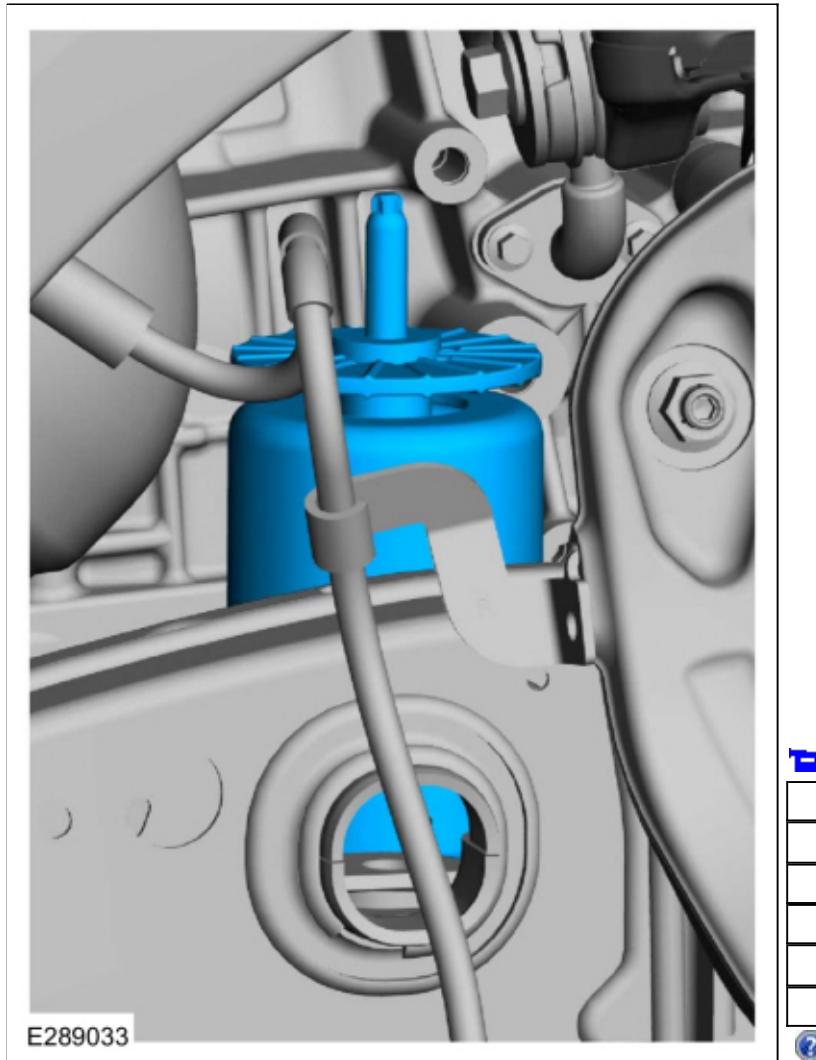
16. Using the 3 bar support, raise the engine.
Use Special Service Tool: [303-F072 Support Bar, Engine](#).



17. Remove the bolts and the RH engine mount bracket.



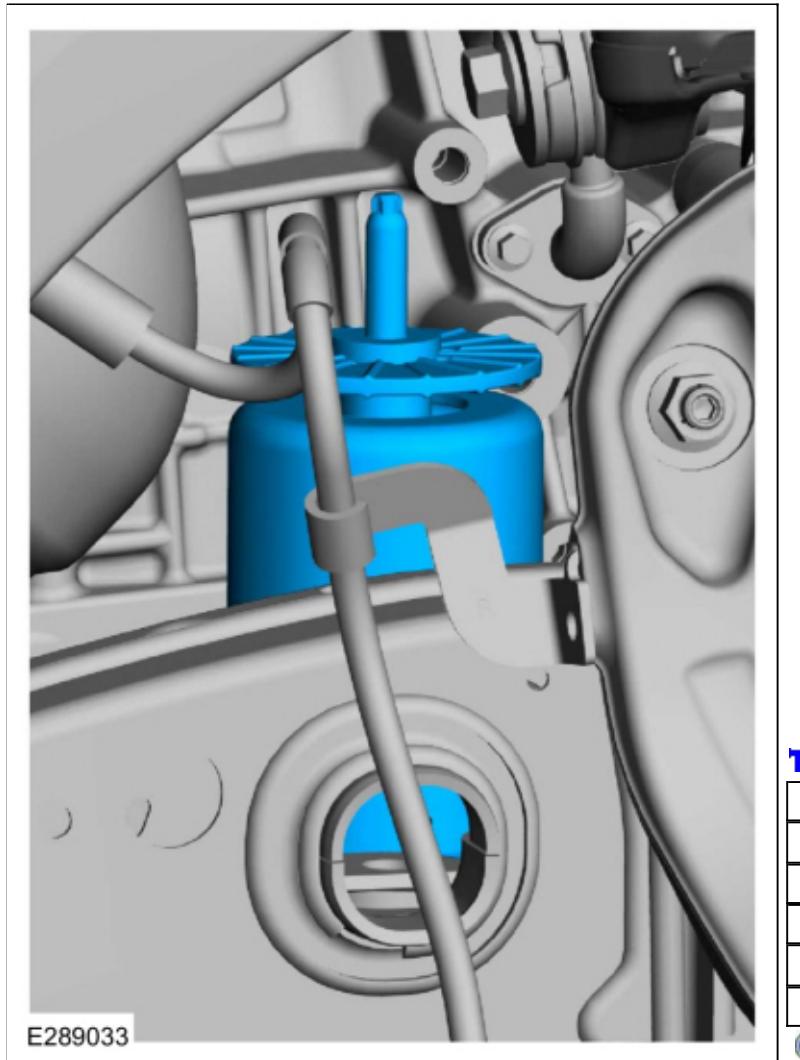
18. Remove the RH engine mount.



Installation

LHD 4WD/LHD FWD

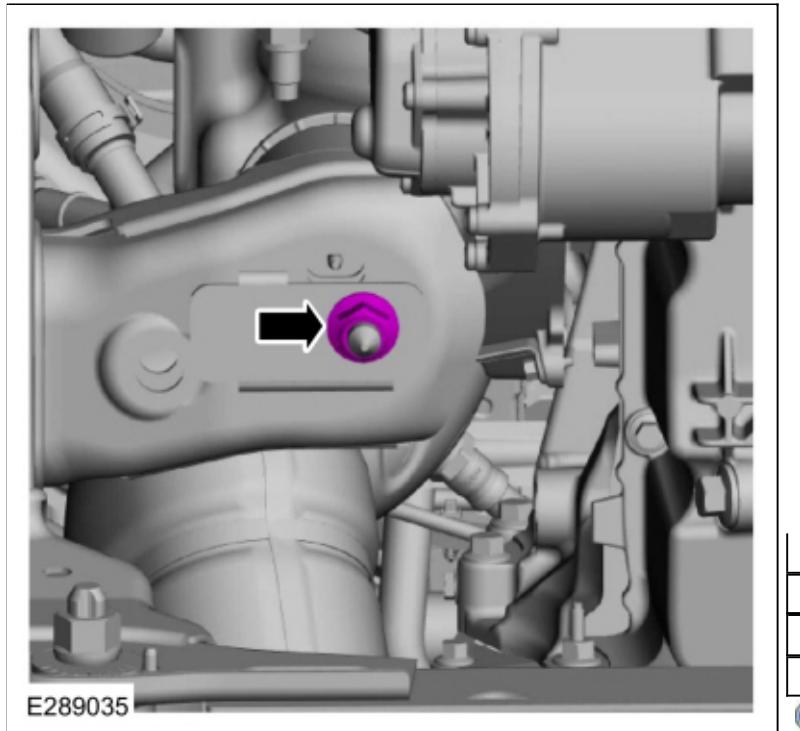
1. Install the RH engine mount and align bottom tab.



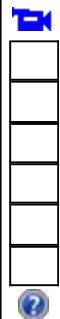
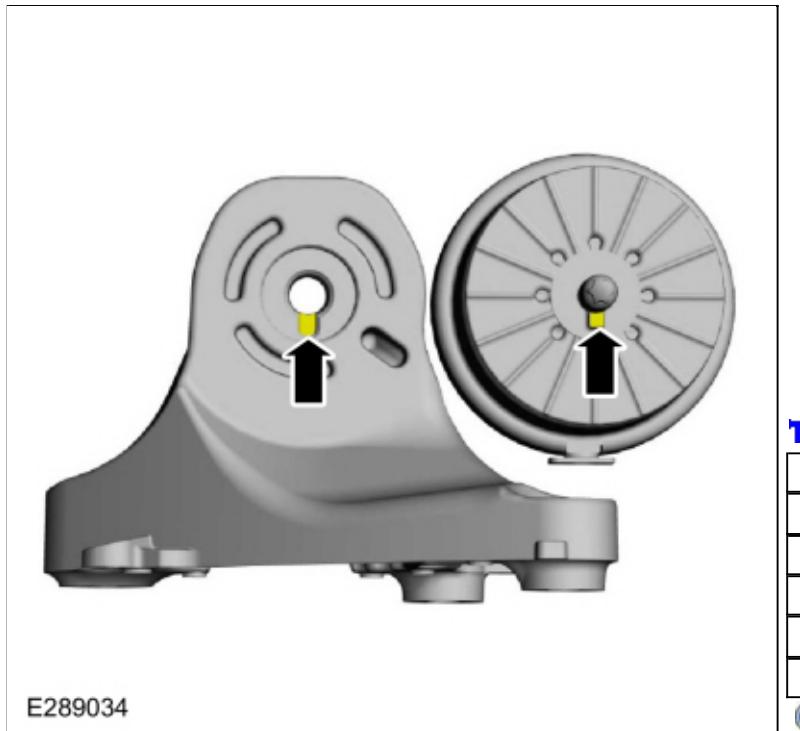
2. **NOTE:** RWD shown, 4x4 similar.

Install a new RH engine mount nut finger tight.

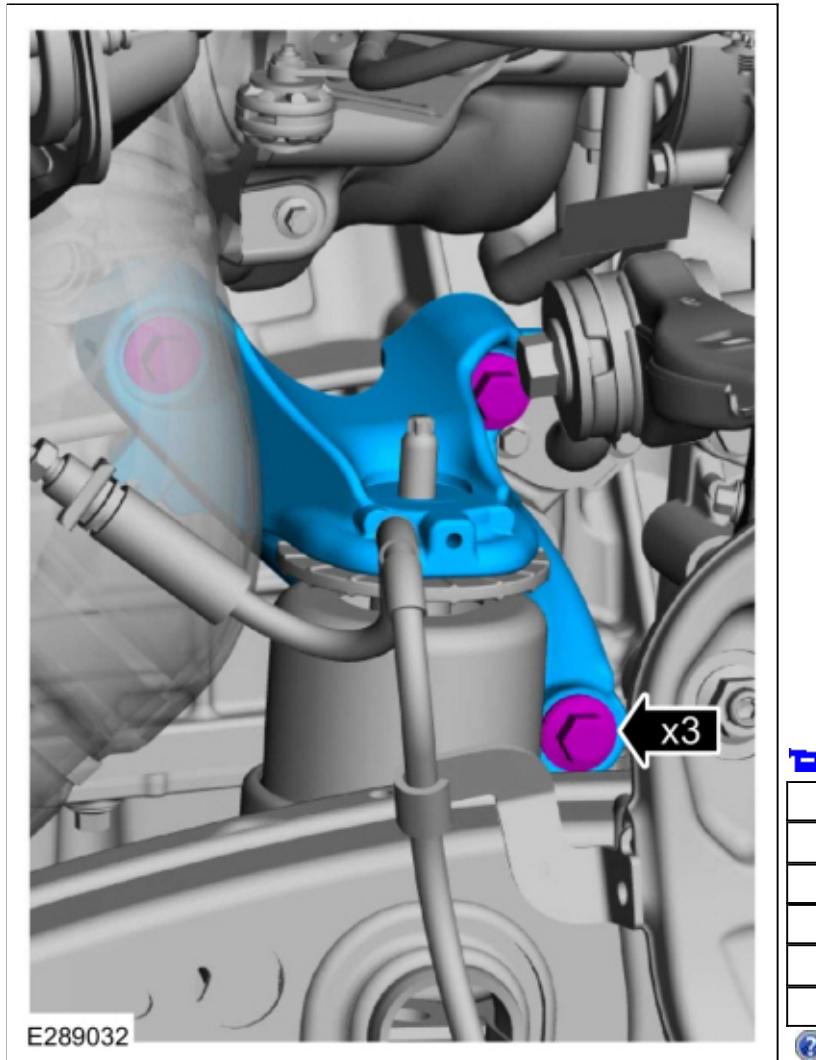




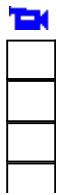
3. Align the tab on the RH engine mount to the slot on the engine mount bracket.

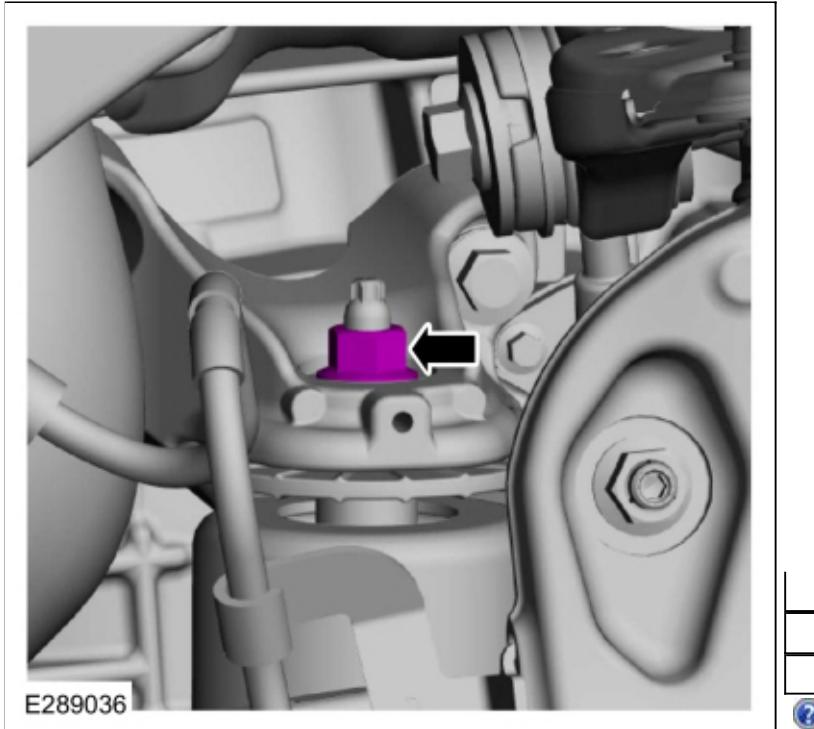


4. Install the RH engine mount bracket and the bolts finger tight.

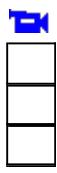


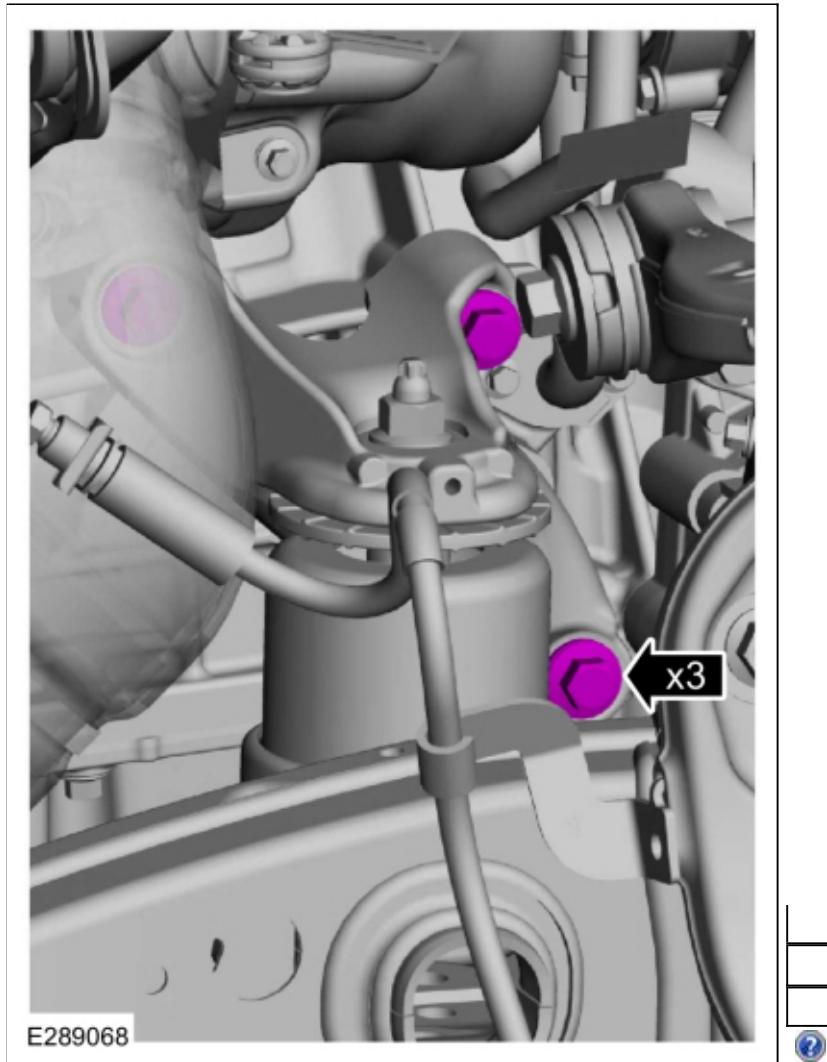
5. Install a new RH engine mount nut finger tight.





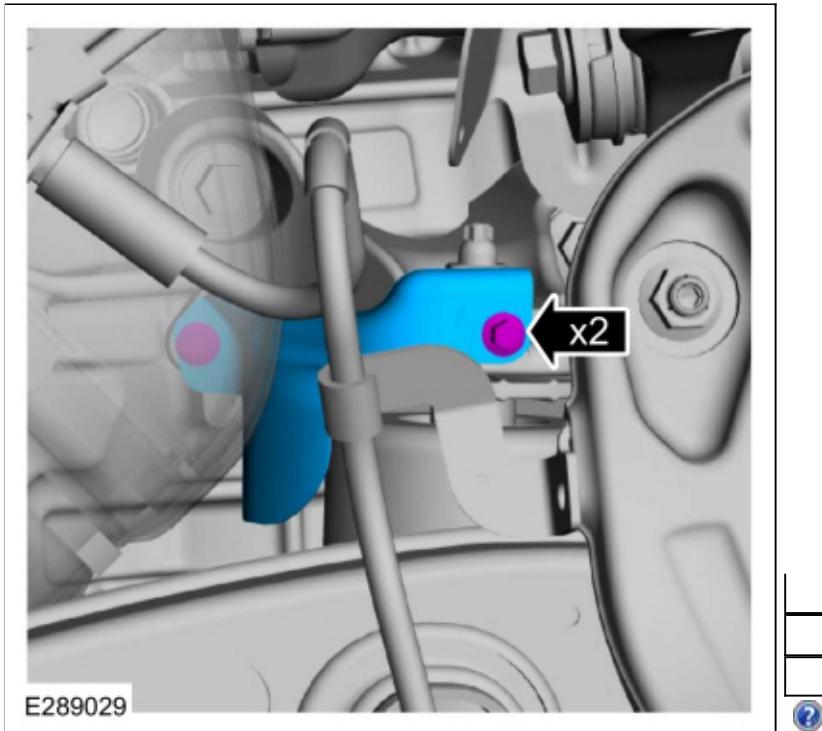
6. Tighten the RH engine mount bracket bolts.
Torque: 41 lb.ft (55 Nm)



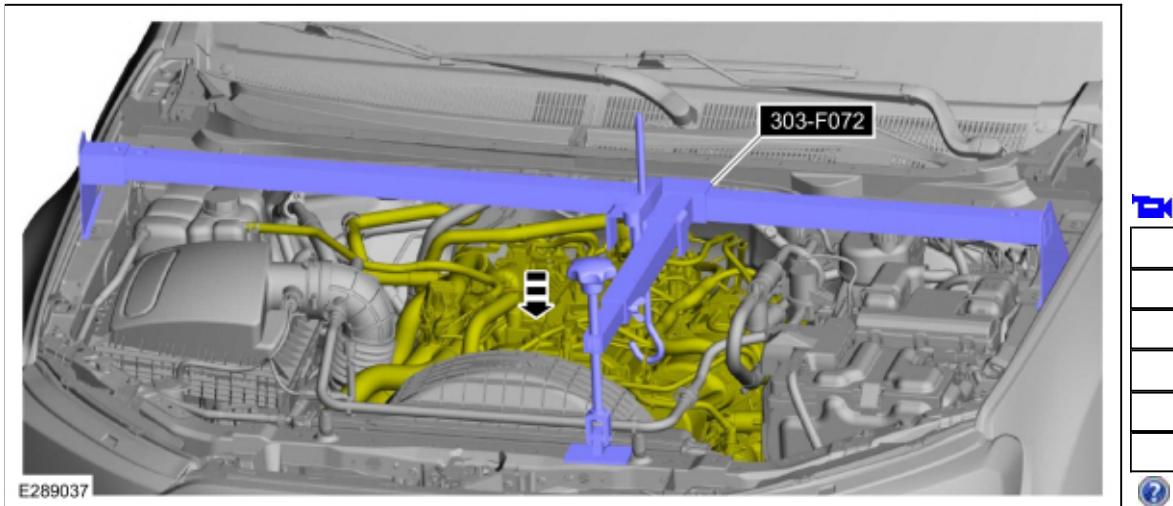


7. Install the heat shield and the bolts.
Torque: 124 lb.in (14 Nm)

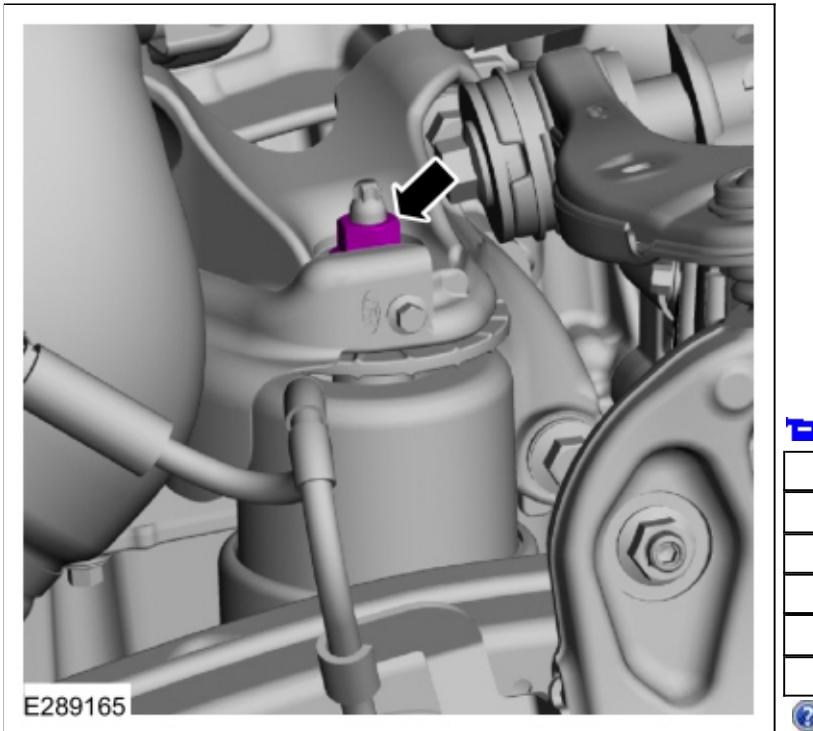




8. Using the 3 bar support, lower the engine.
Use Special Service Tool: [303-F072 Support Bar, Engine](#).

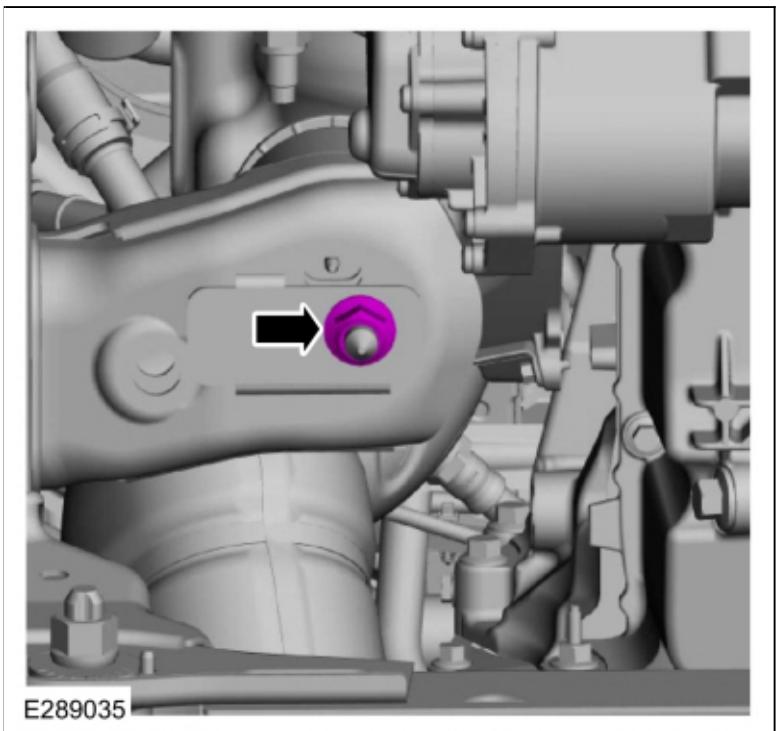


9. Tighten the RH mount nut.
Torque: 92 lb.ft (125 Nm)

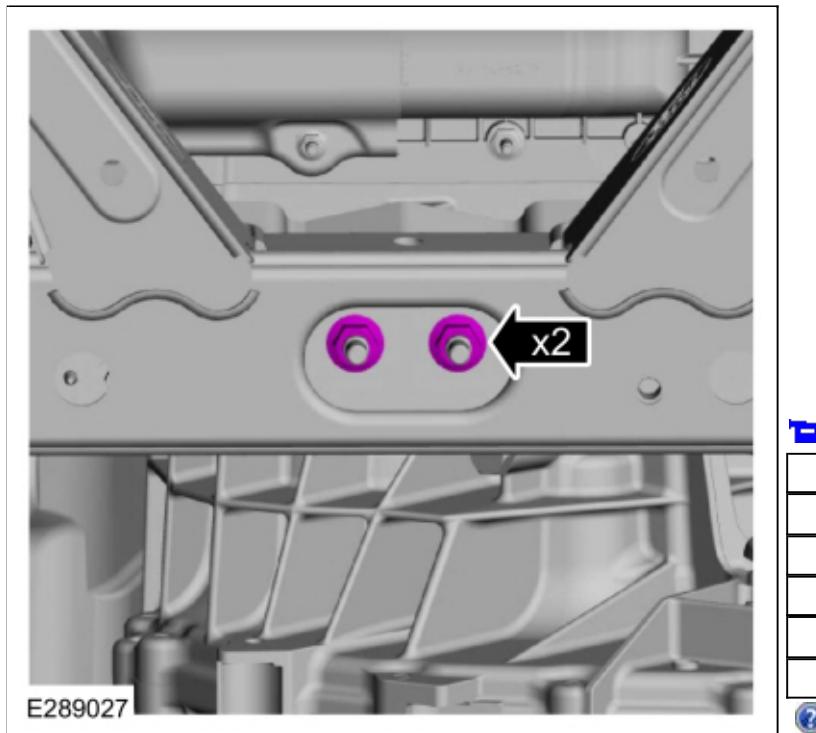


10. **NOTE: RWD shown, 4x4 similar.**

Tighten the RH mount nut.
Torque: 129 lb.ft (175 Nm)

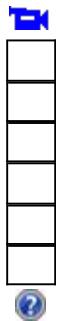
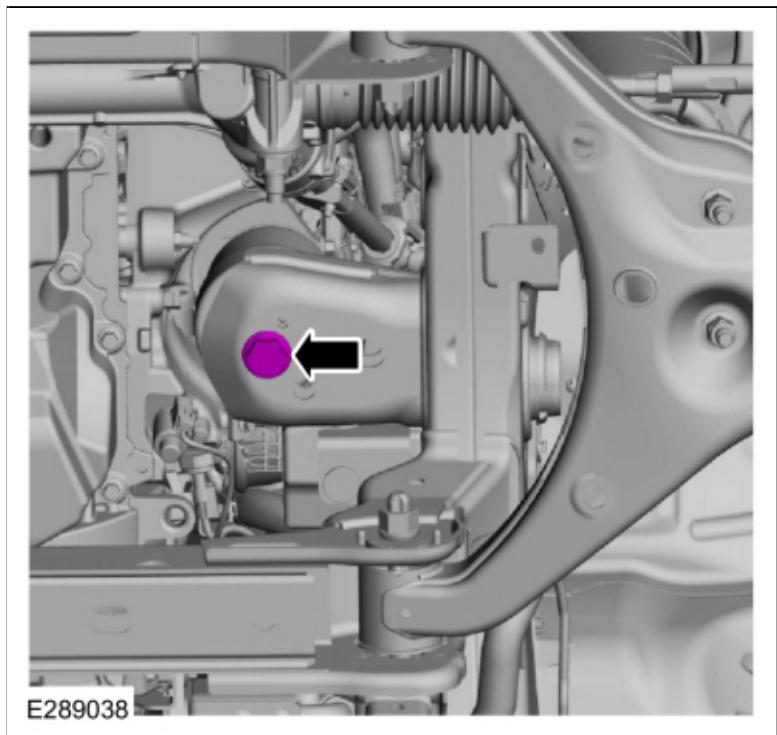


11. Tighten the transmission mount nuts.
Torque: 66 lb.ft (90 Nm)



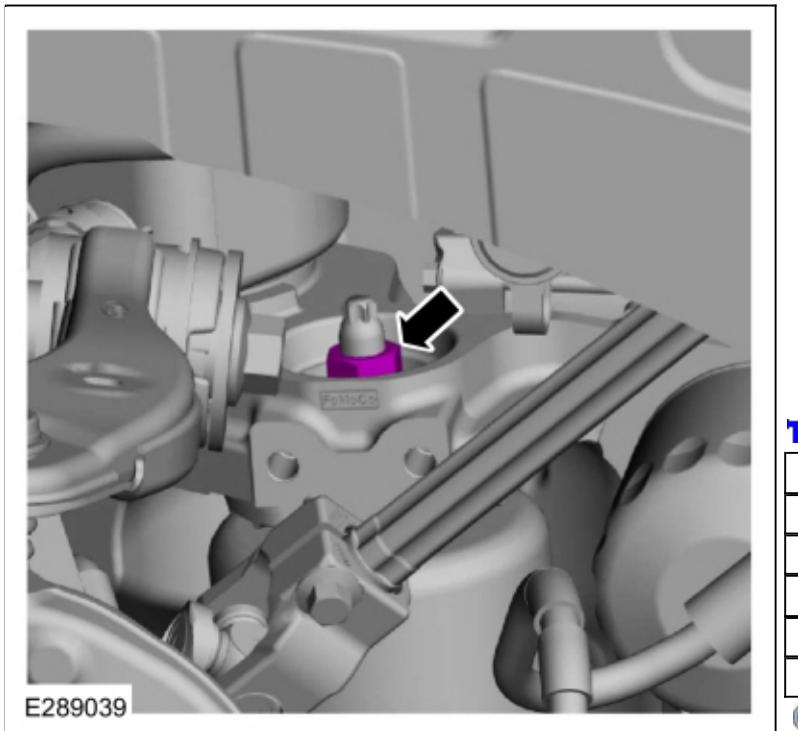
LHD FWD

12. Install a new LH mount bolt.
Torque: 129 lb.ft (175 Nm)

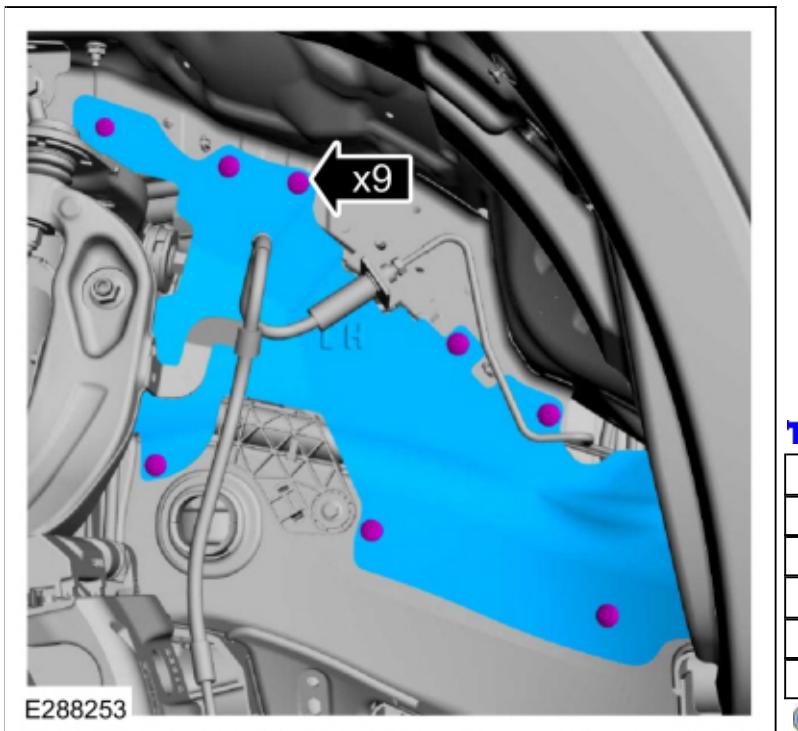


LHD 4WD

13. Install the new LH engine mount nut.
Torque: 92 lb.ft (125 Nm)



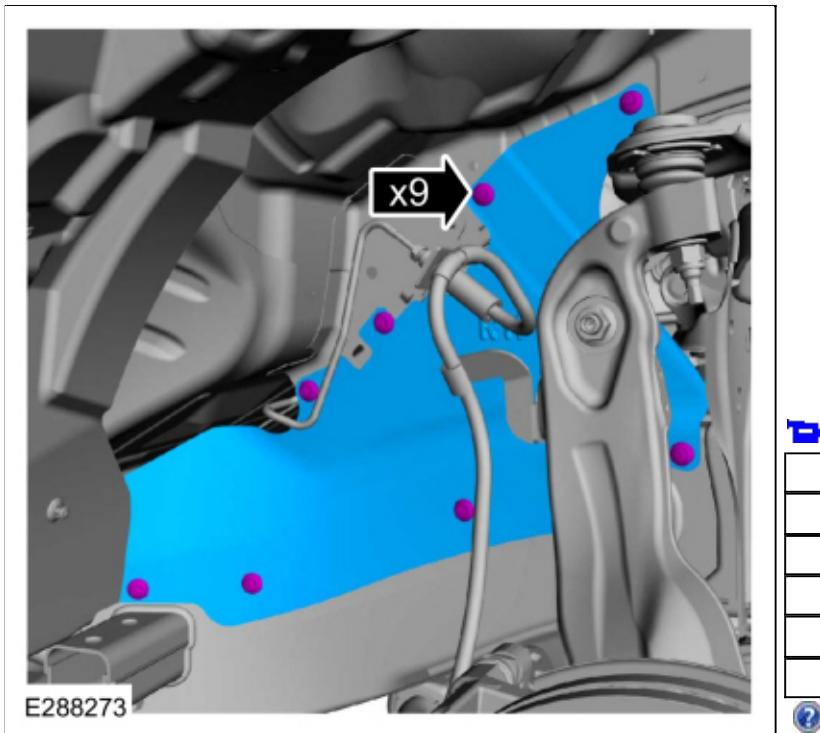
14. Install the LH fender splash shield and the retainers.



15. Install LH front wheel and tire.
Refer to: [Wheel and Tire](#) (204-04A Wheels and Tires, Removal and Installation).

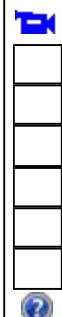
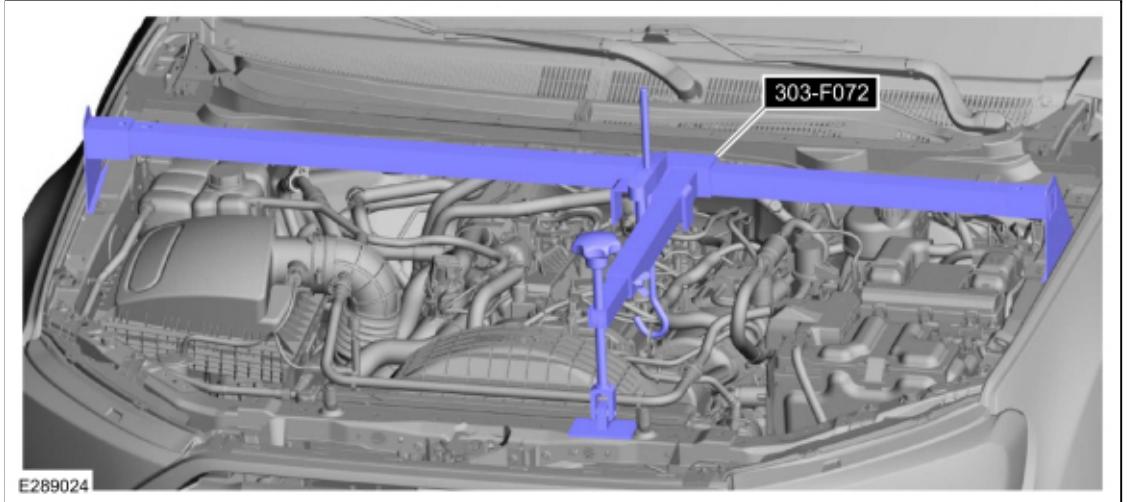
LHD 4WD/LHD FWD

16. Install the RH fender splash shield and the retainers.

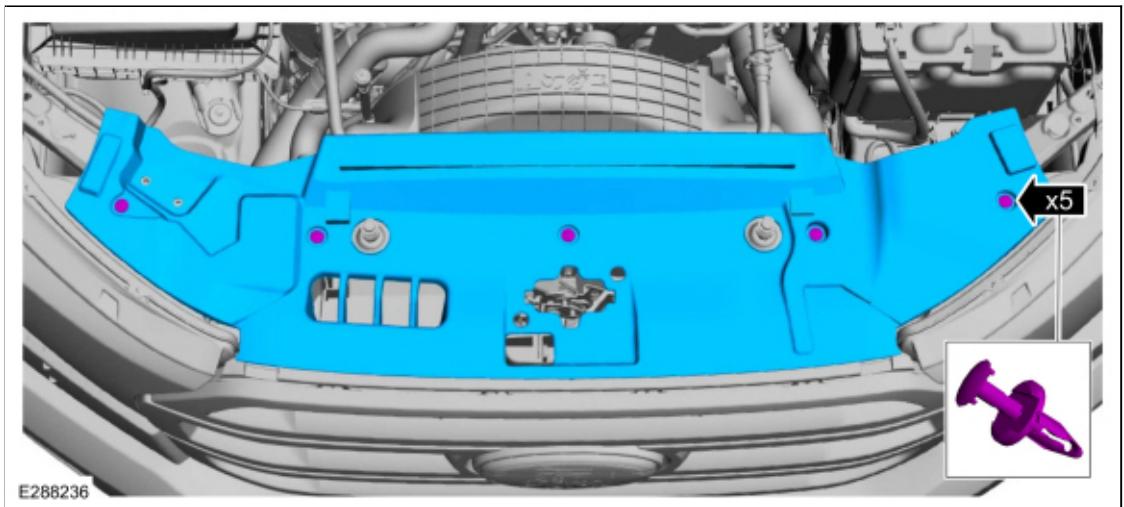


17. Install RH front wheels and tire.
Refer to: [Wheel and Tire](#) (204-04A Wheels and Tires, Removal and Installation).

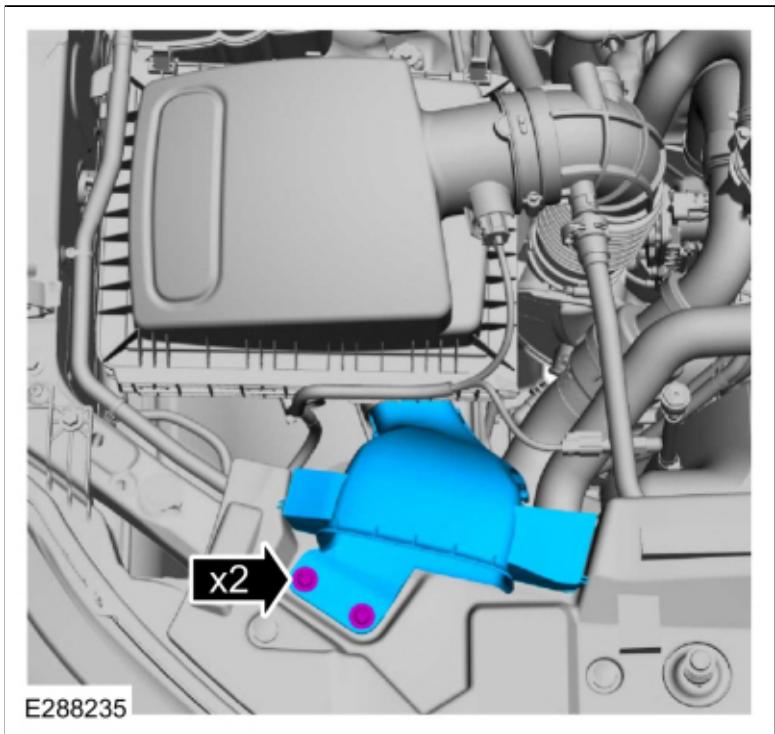
18. Remove the 3 bar support.
Remove Special Service Tool: [303-F072 Support Bar, Engine](#).



19. Install the upper air deflector and the retainers.

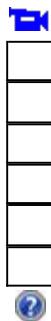


20. Install ACL inlet and the screws.
Torque: 22 lb.in (2.5 Nm)



21.

1. **NOTE:** Lubricating the grommets with silicone grease will aid in the installation of the engine appearance cover, and any future removal and installation of the cover.
 Lubricate each grommet with silicone grease.
Material: Motorcraft® Silicone Brake Caliper Grease and Dielectric Compound / XG-3-A (ESE-M1C171-A)
2. Position the engine appearance cover onto engine with the grommet aligned with the studs.
3. Press down on the engine appearance cover at each grommet location to attach the grommets onto the studs and install the nuts.



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