

205-03 Front Drive Axle/Differential
Removal and Installation

2019 Ranger
Procedure revision date: 12/13/2018

Axle Assembly

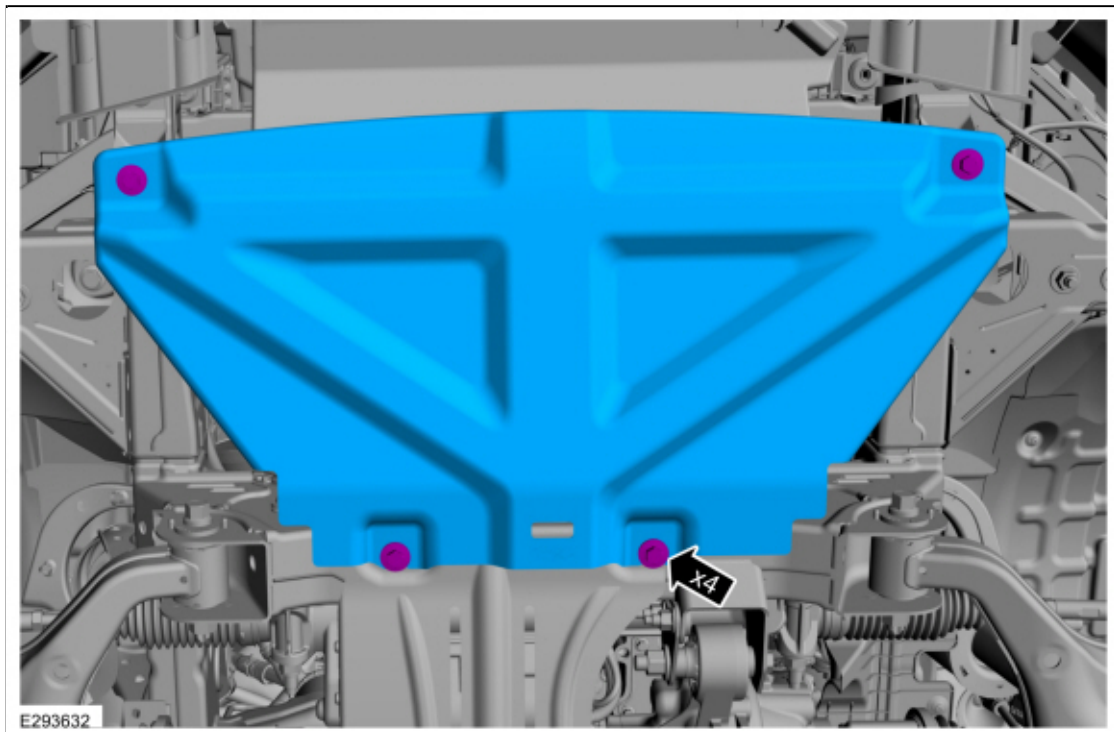
Base Part Number: 4000

Special Tool(s) / General Equipment

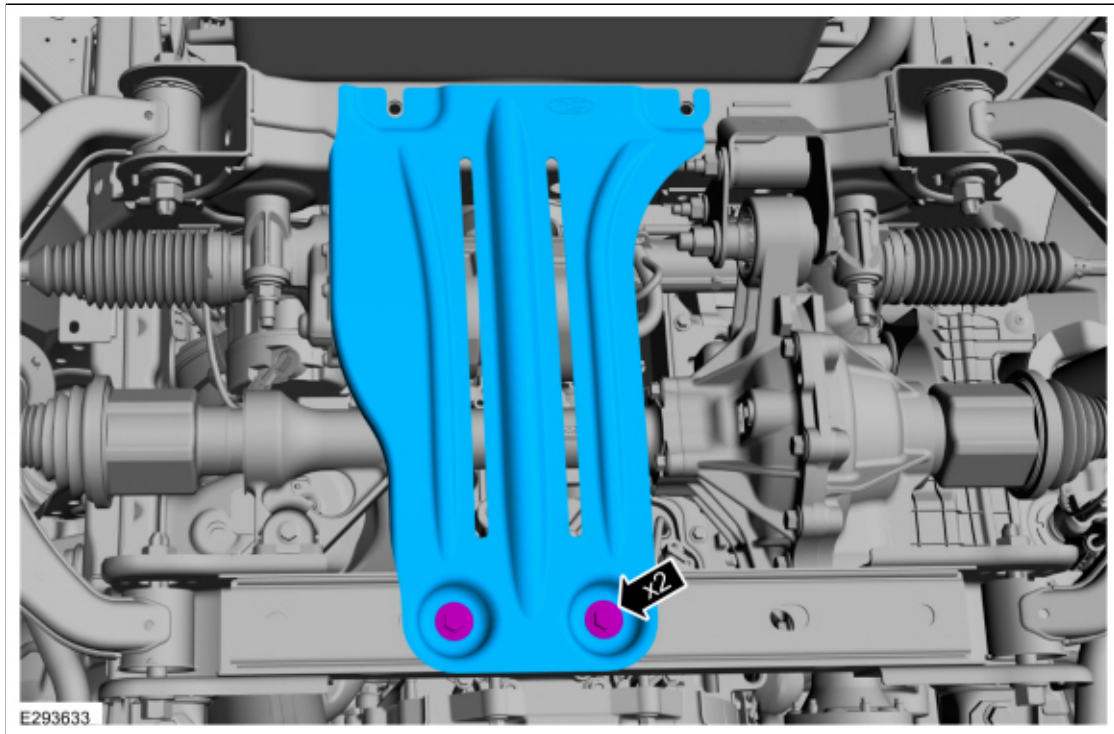
Transmission Jack

Removal

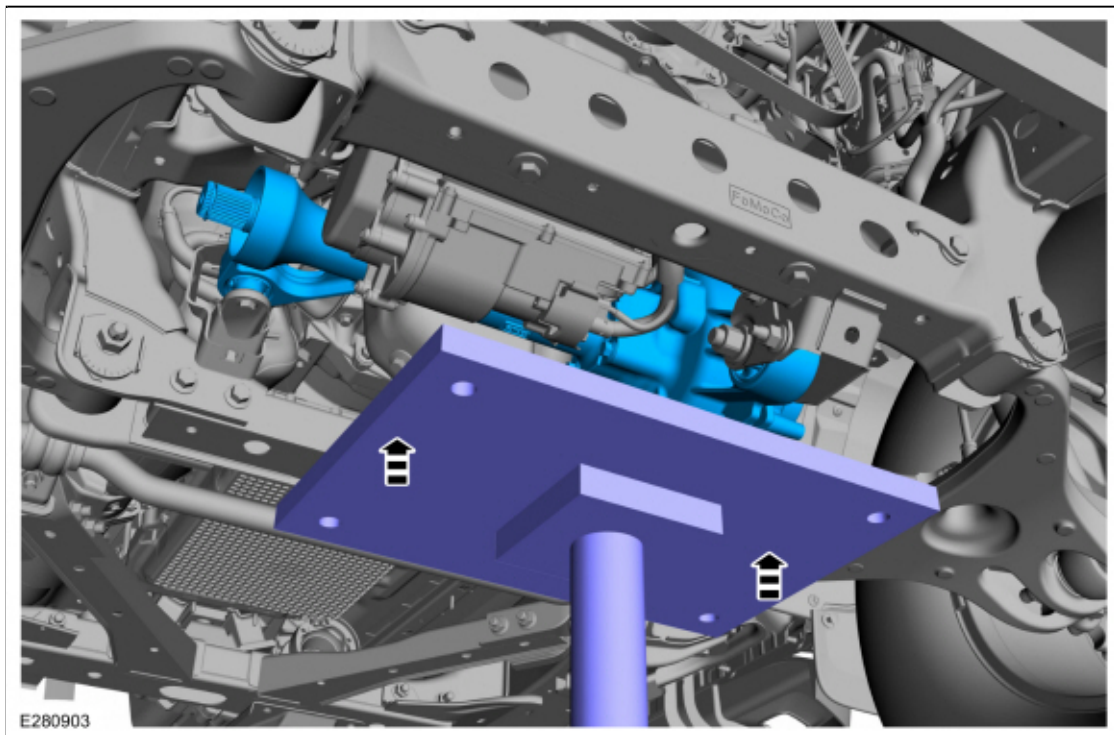
1. Drain the front differential.
Refer to: [Differential Draining and Filling](#) (205-03 Front Drive Axle/Differential, General Procedures).
2. Remove the front driveshaft.
Refer to: [Front Driveshaft](#) (205-01 Driveshaft, Removal and Installation).
3. Remove the front halfshafts.
Refer to: [Front Halfshaft LH](#) (205-04 Front Drive Halfshafts, Removal and Installation).
Refer to: [Front Halfshaft RH](#) (205-04 Front Drive Halfshafts, Removal and Installation).
4. Remove the bolts and the engine front undershield.



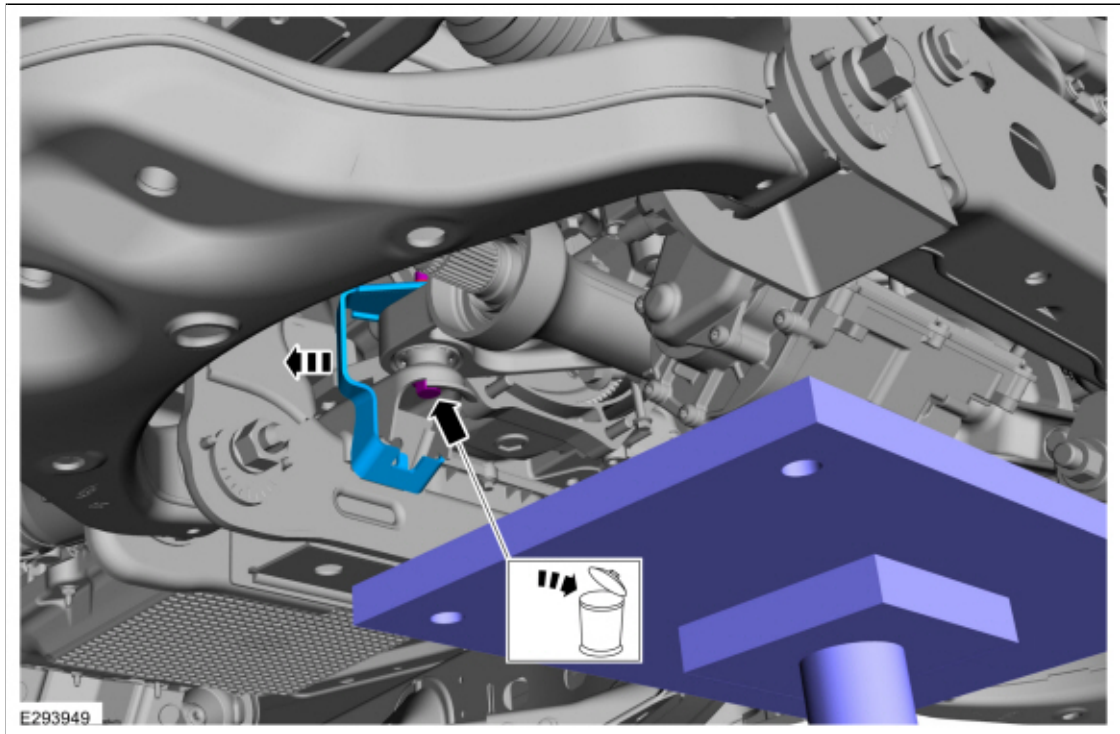
5. Remove the bolts and the front axle skid plate.



6. Using transmission jack, support the front axle assembly.
Use the General Equipment: Transmission Jack

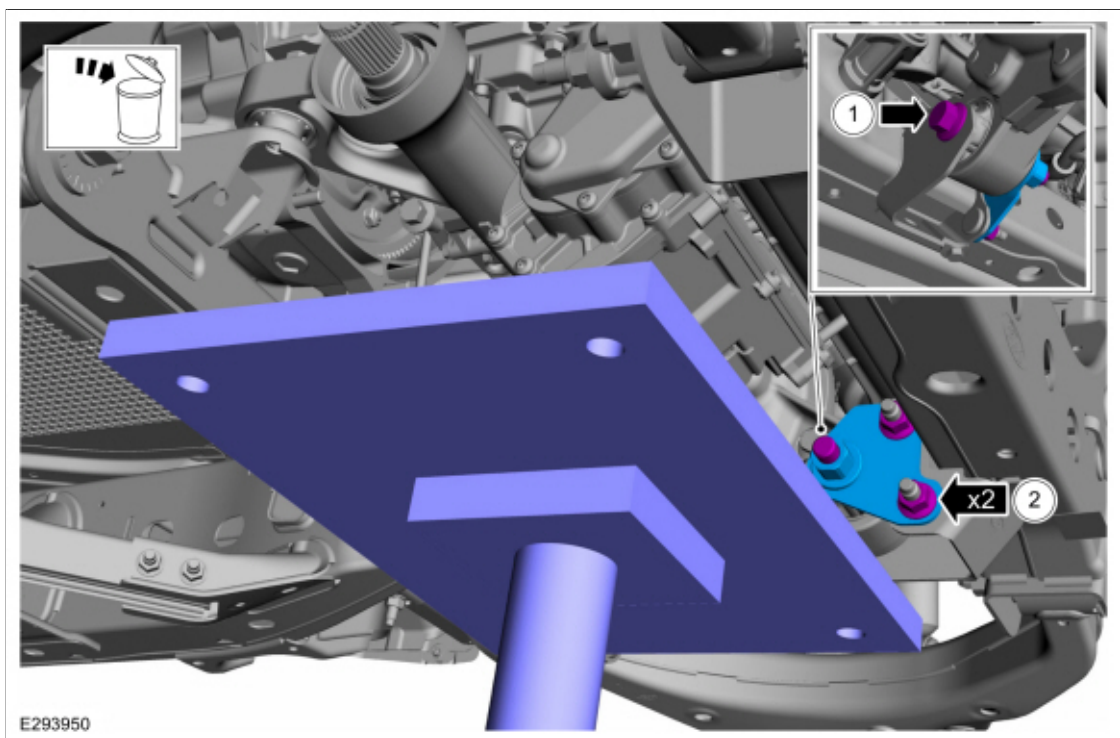


7. Remove and discard the front axle tube bushing bolt and the support bracket.
Use the General Equipment: Transmission Jack

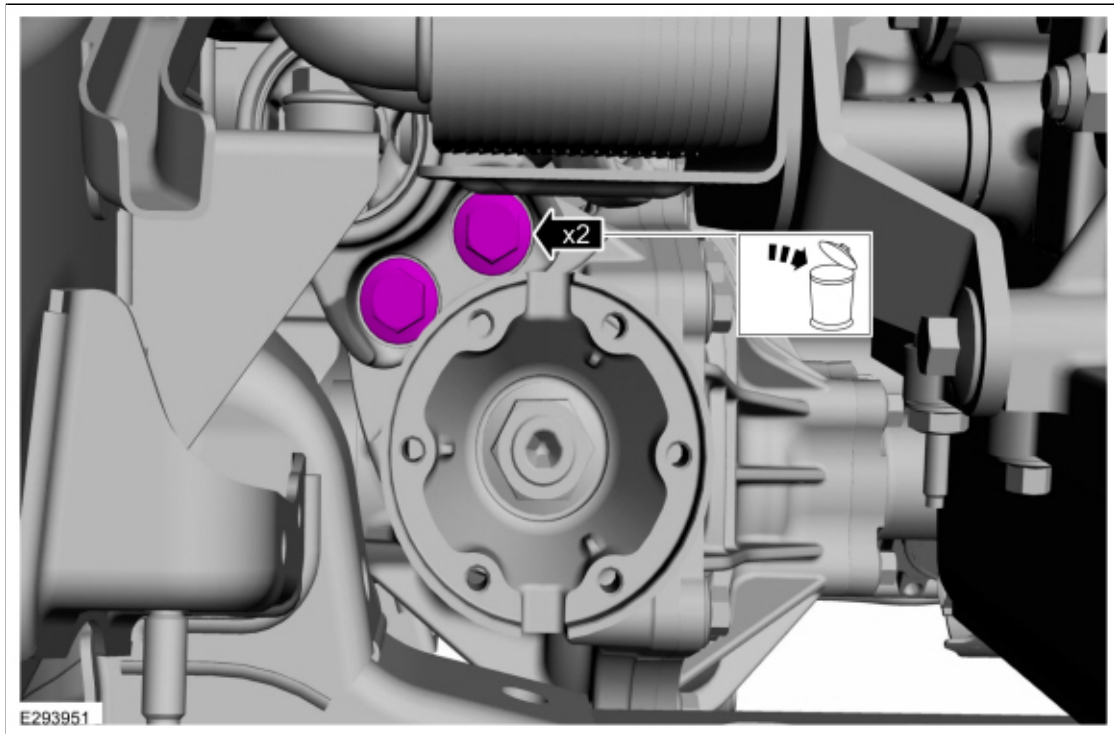


8.

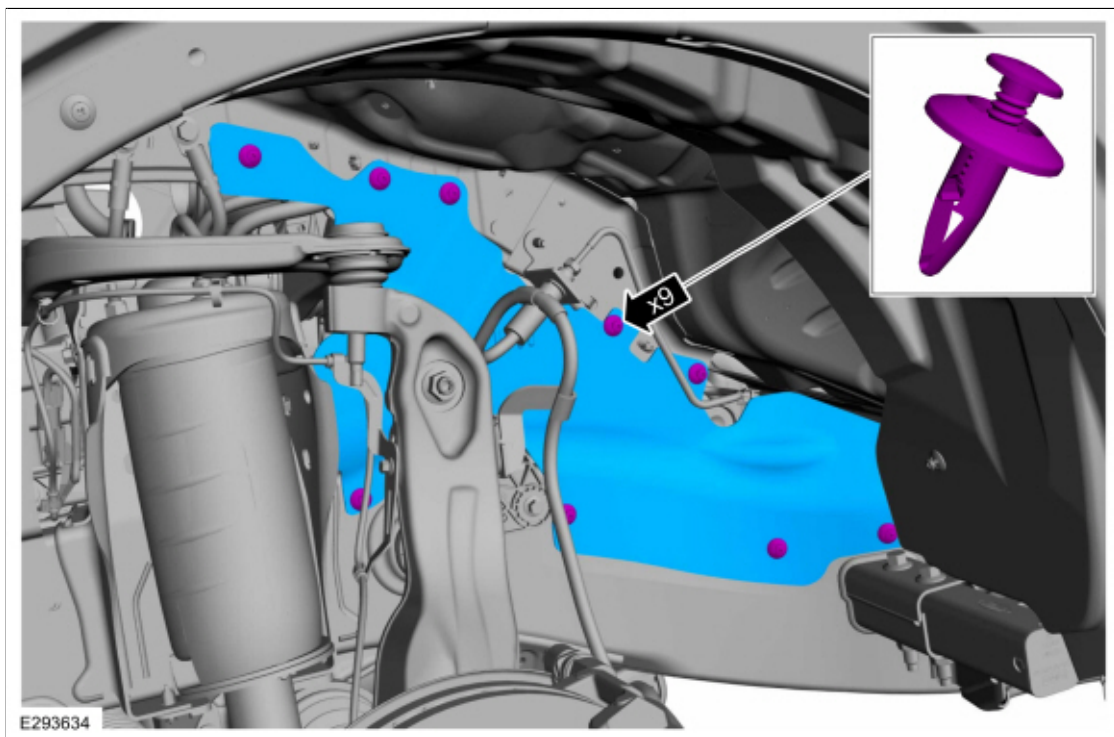
1. Remove and discard the front axle cover bushing bolt.
2. Remove and discard the nuts and the front axle cover mounting support bracket. Use the General Equipment: Transmission Jack



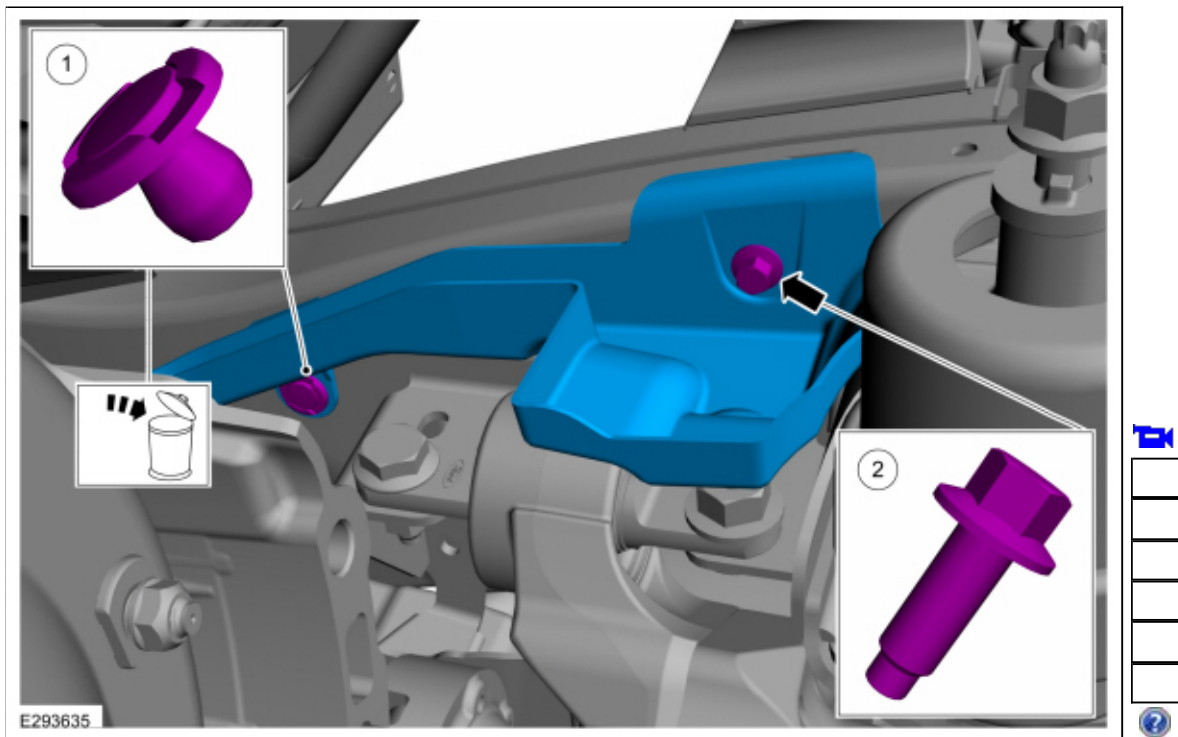
9. Remove and discard the bolts and disconnect the front axle from the axle carrier mounting bracket. Use the General Equipment: Transmission Jack



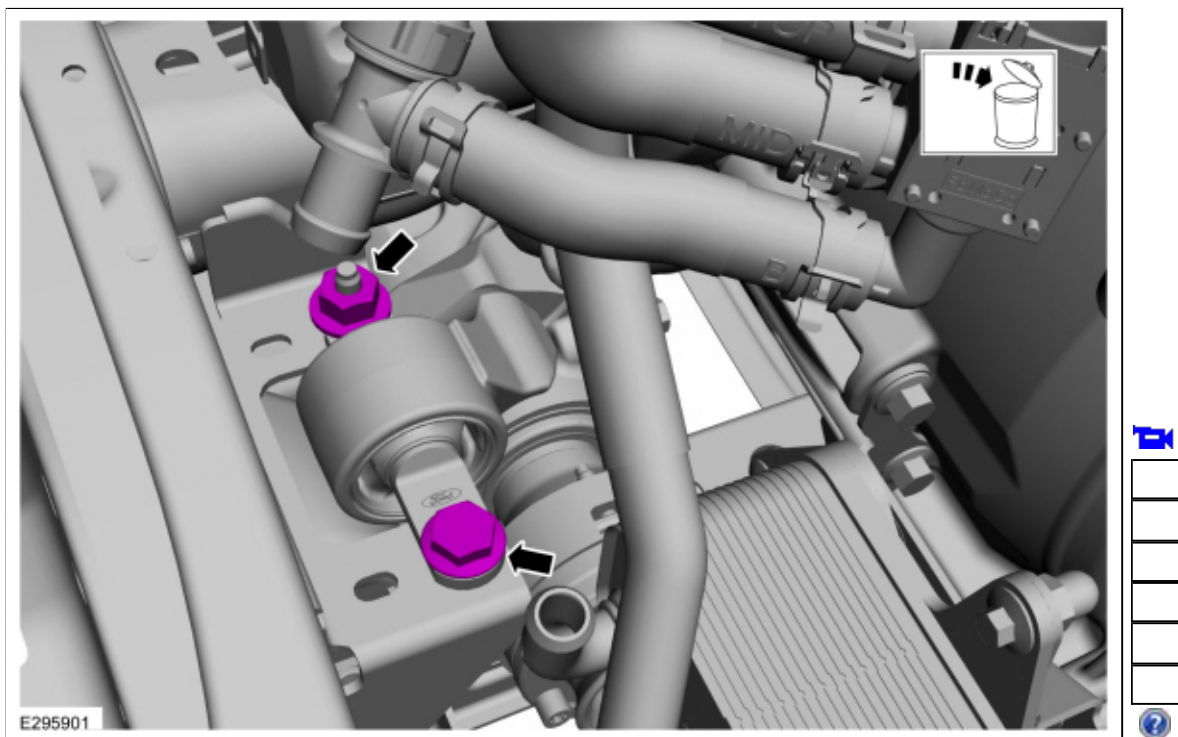
10. Remove the pin-type retainers and the fender splash shield.



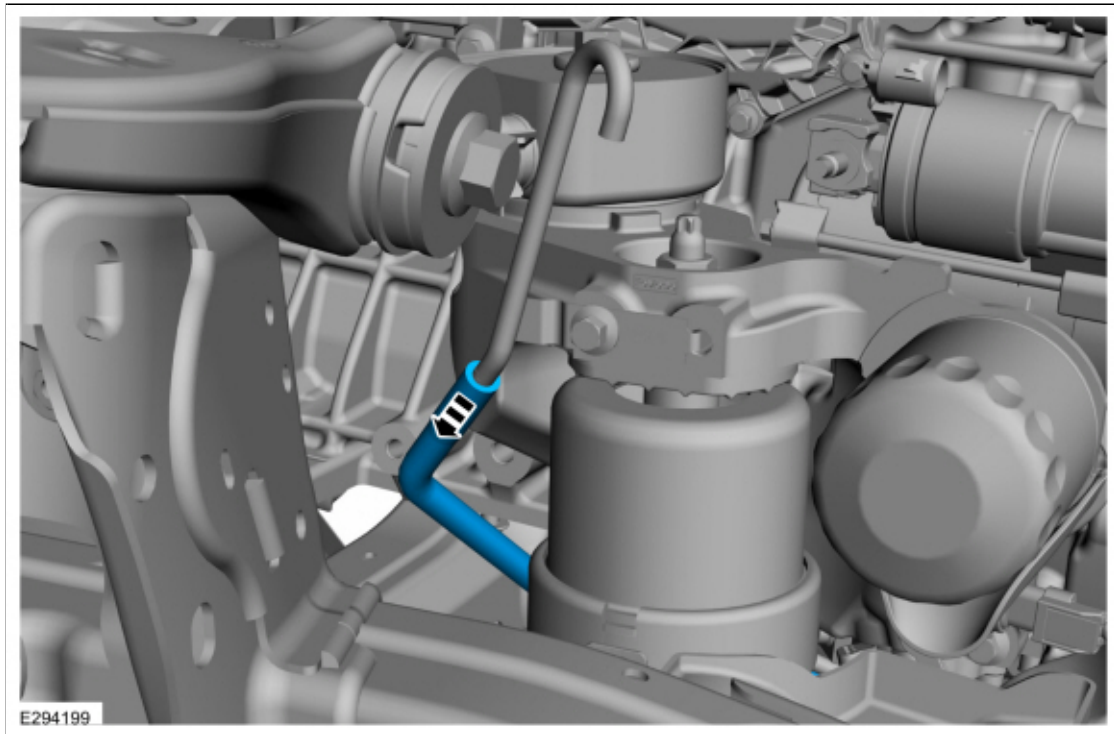
- 11.
1. Remove and discard the revet-type push pin.
 2. Remove the bolt and the oil filter shield.



12. Remove and discard the front axle carrier mounting bolt and the nut.



13. Detach the hose from the metal breather tube.



Installation

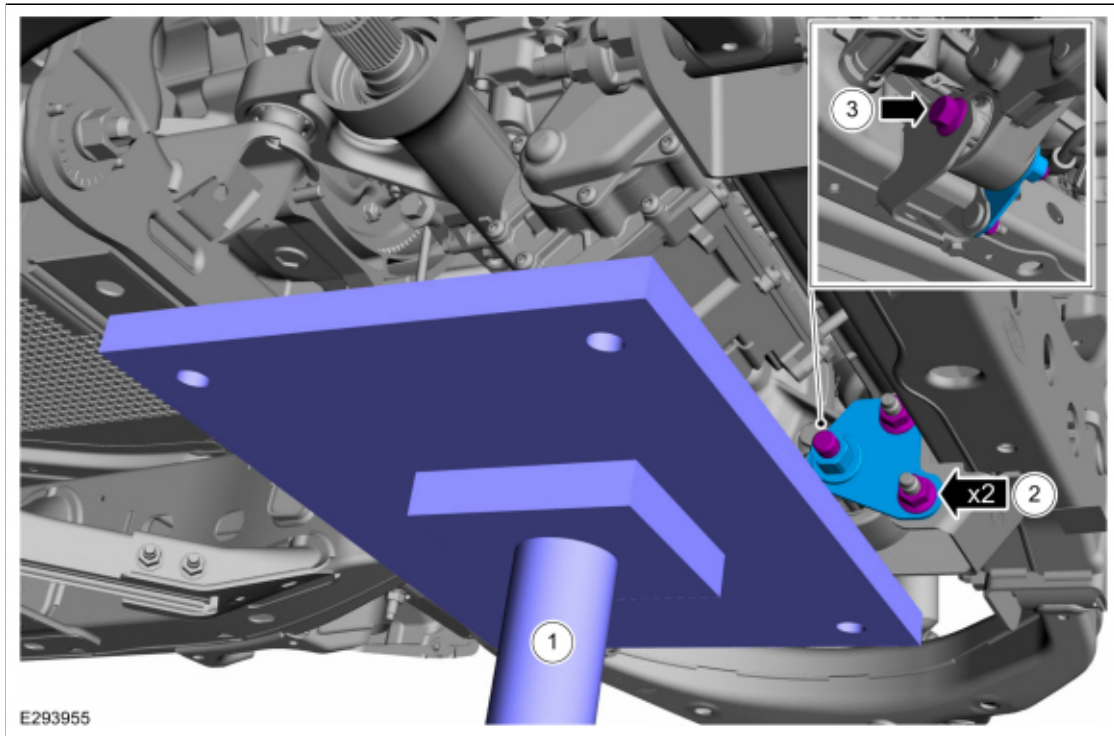
1.

1. Using the transmission jack position the front axle assembly.
Use the General Equipment: Transmission Jack
2. **NOTE:** *Make sure that new nuts are installed.*

Fit the axle cover support bracket to the front axle mounting bracket and hand tighten the nuts.

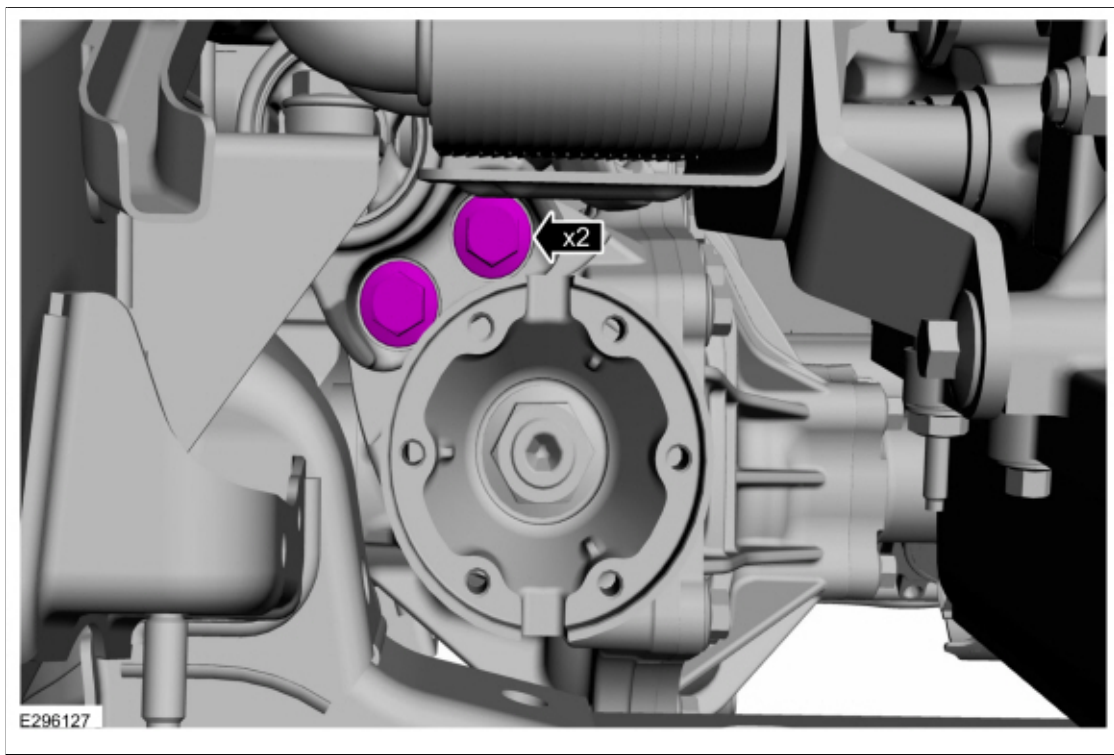
3. **NOTE:** *Make sure that new bolts are installed.*

Install and hand tighten the front axle cover mounting bolt.



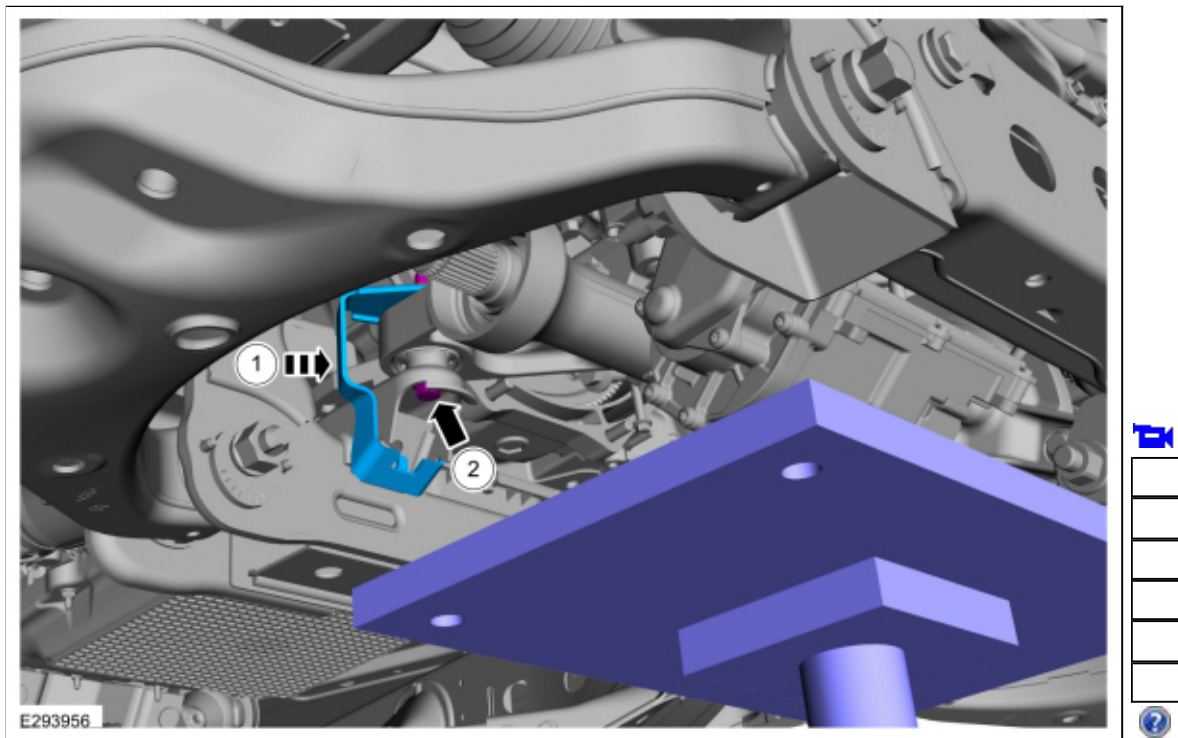
2. **NOTE:** Make sure that new bolts are installed.

Fit the axle carrier support bracket to the front axle and hand tighten the bolts.



3. **NOTE:** Make sure that new bolts are installed.

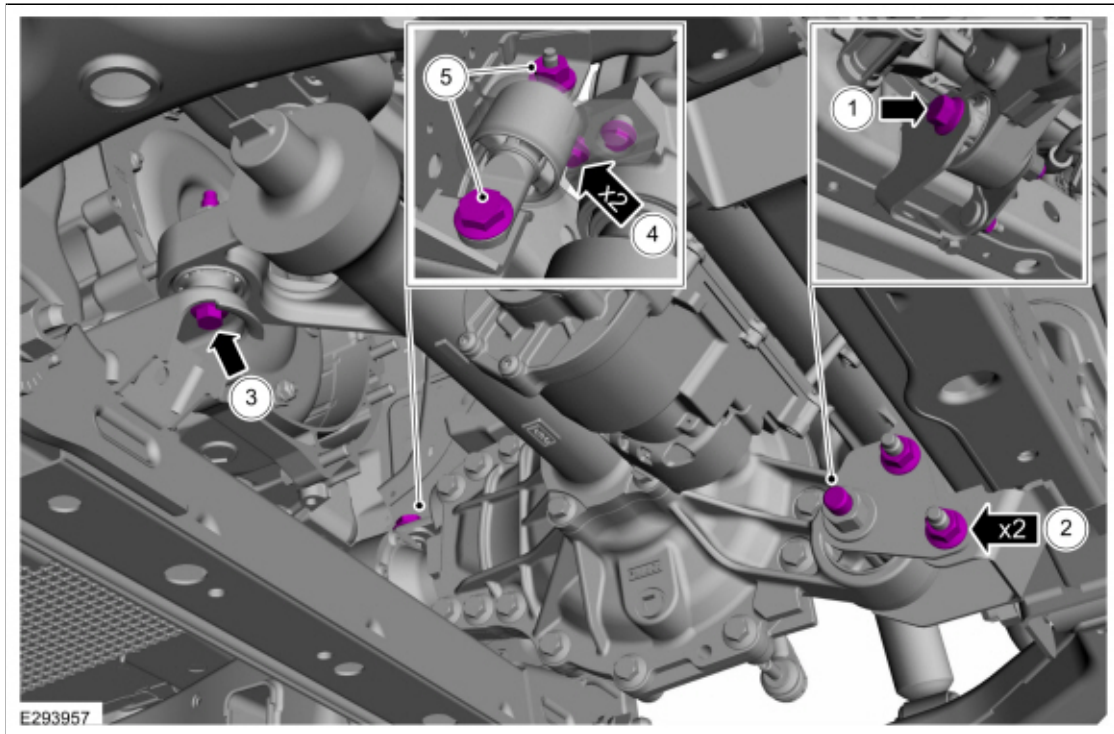
Install the front axle tube bushing support bracket and hand tighten the bolt.



4. If equipped.

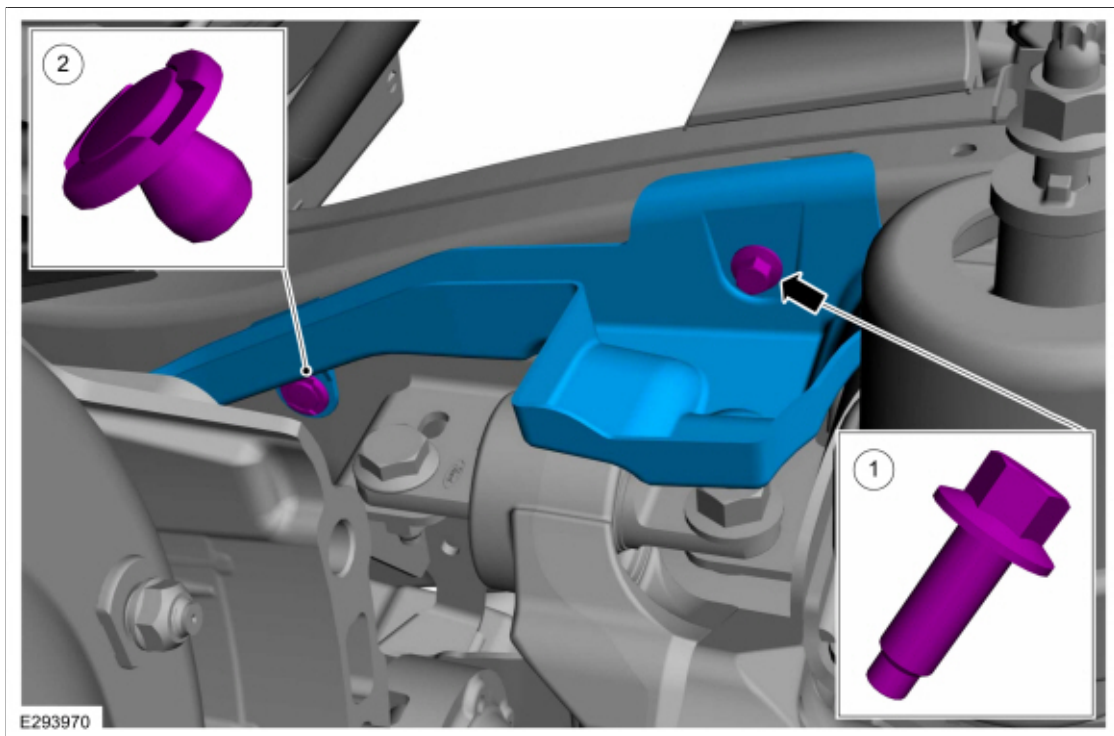
1. Tighten the front axle cover bushing bolt.
Torque: 195 lb.ft (265 Nm)
2. Tighten the front axle cover mounting support bracket nuts.
Torque: 66 lb.ft (90 Nm)
3. Tighten the front axle tube bushing bolt and the support bracket.
Torque: 52 lb.ft (70 Nm)
4. Tighten the front axle carrier to bracket bolts.
Torque:
Stage 1: 30 lb.ft (40 Nm)
Stage 2: 70°
5. Tighten the front axle carrier mounting bolt and the nut.
Torque: 41 lb.ft (55 Nm)



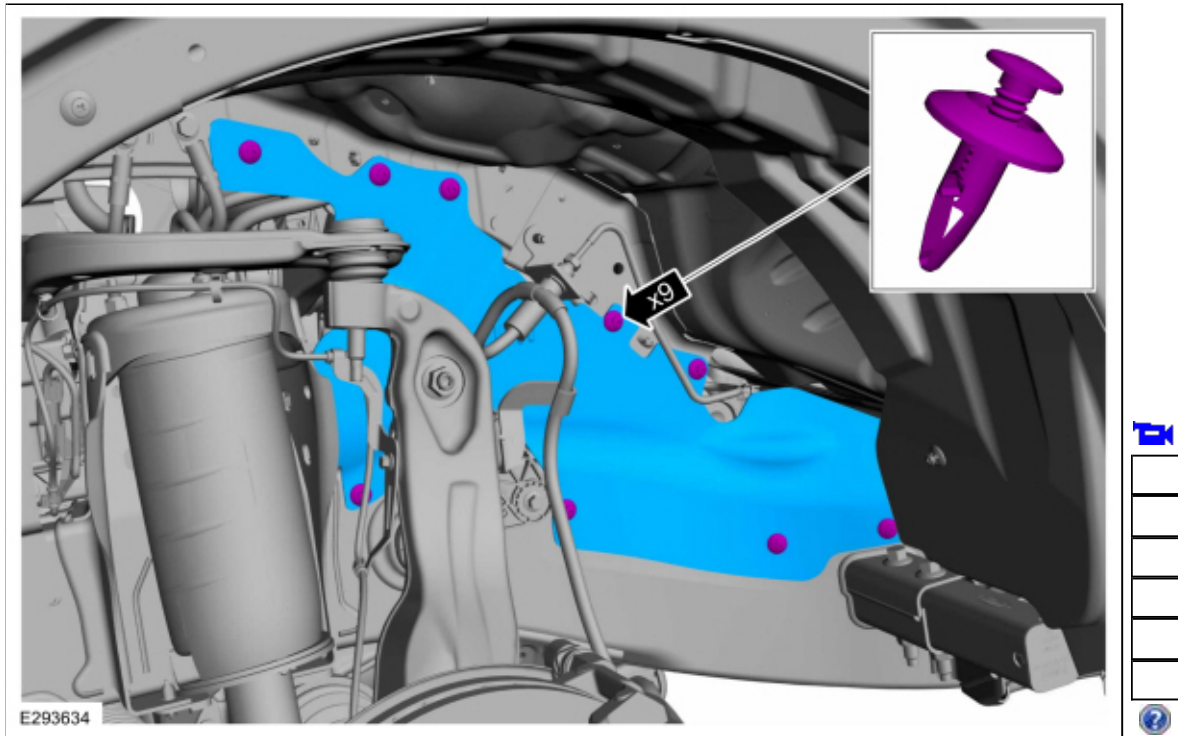


5.

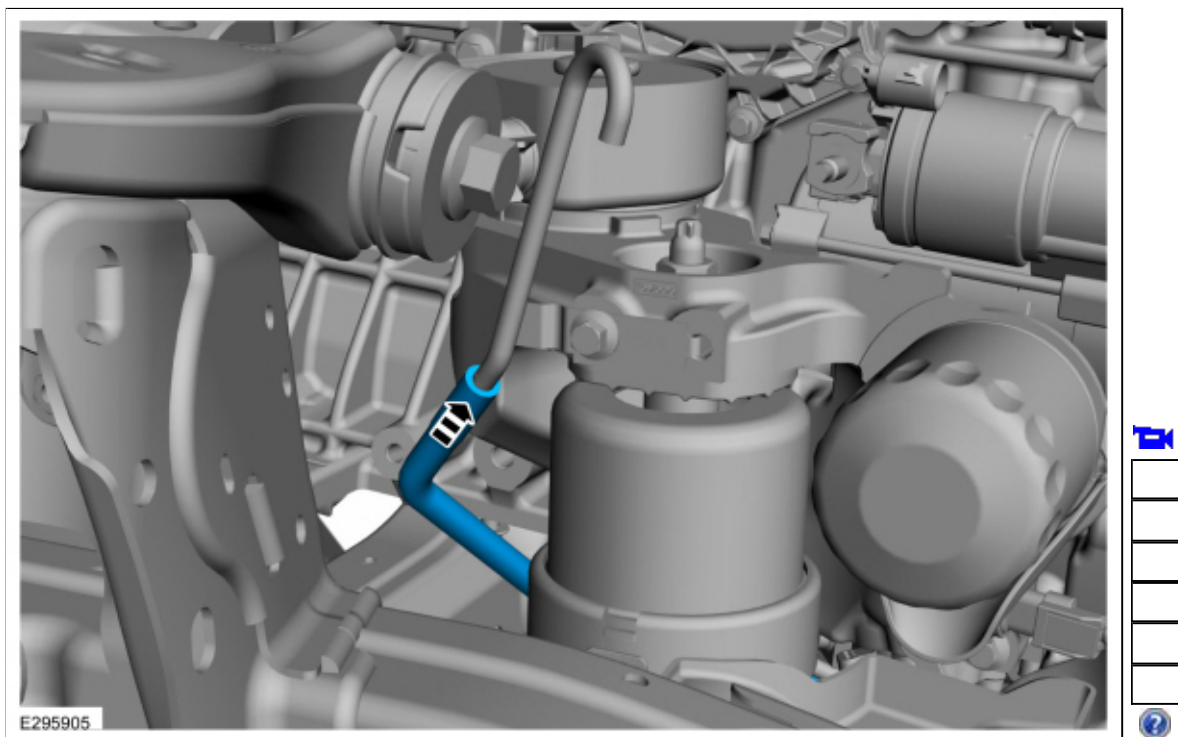
1. Install the bolt and the oil filter shield.
Torque: 133 lb.in (15 Nm)
2. Install the revet-type push pin.



6. Install the pin-type retainers and the fender splash shield.

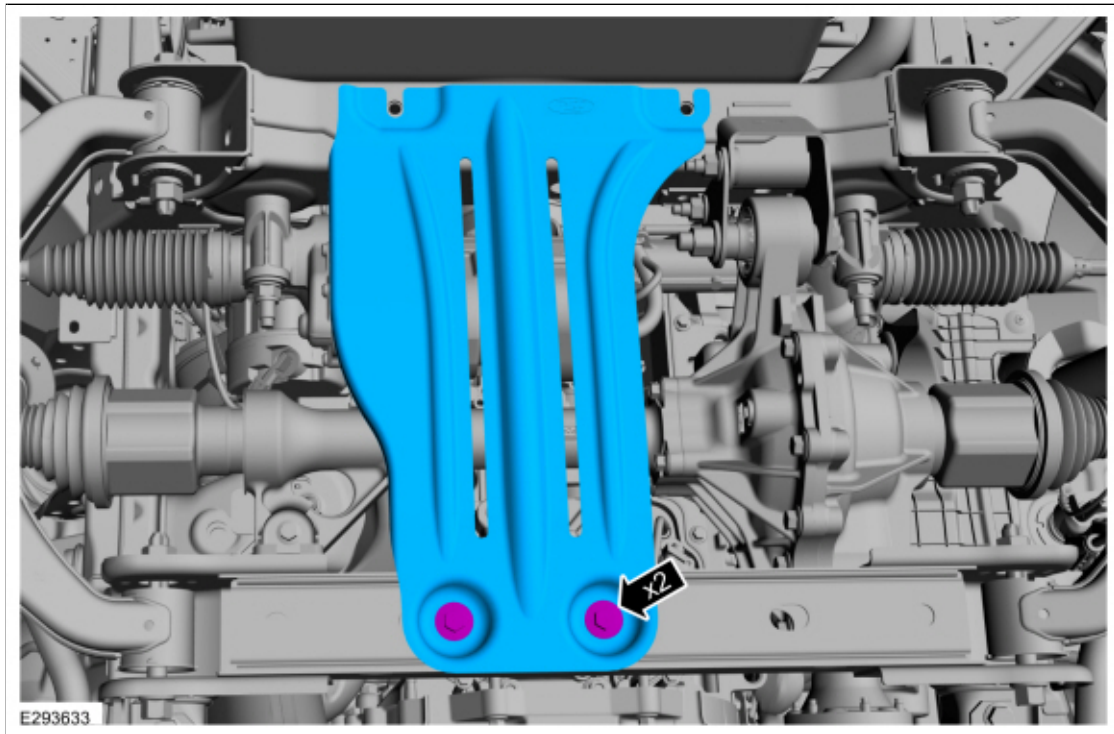


7. Attach the hose to the metal breather tube.



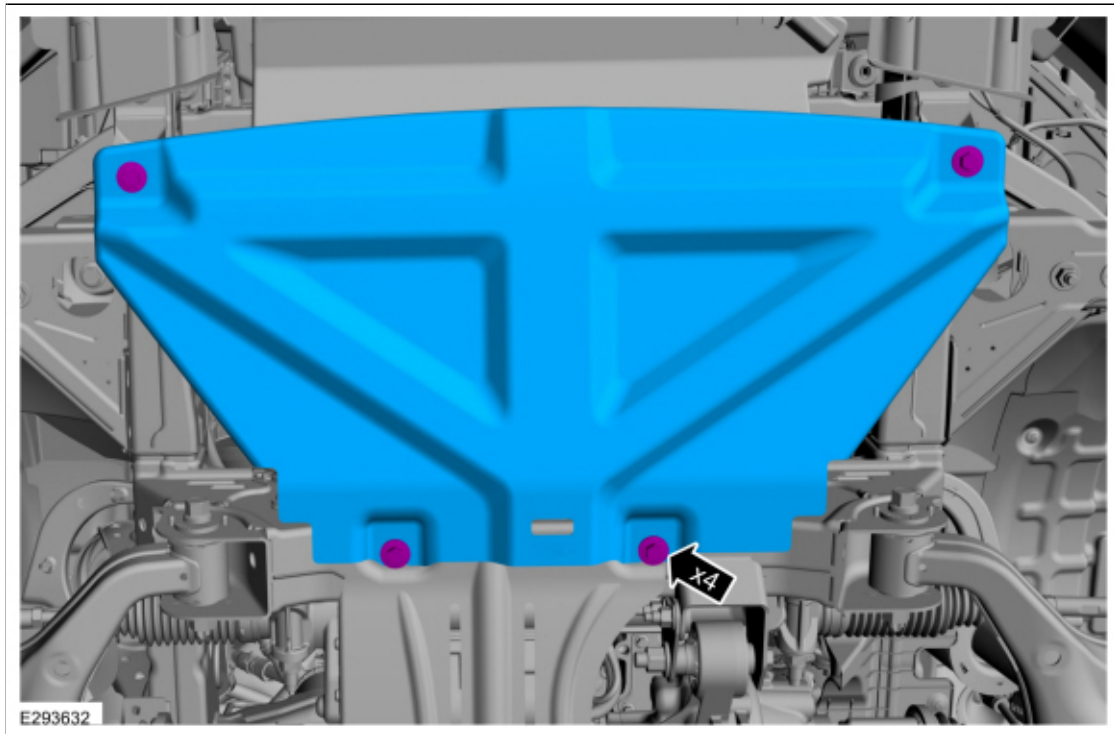
8. Install the front halfshafts.
Refer to: [Front Halfshaft LH](#) (205-04 Front Drive Halfshafts, Removal and Installation).
Refer to: [Front Halfshaft RH](#) (205-04 Front Drive Halfshafts, Removal and Installation).

9. Install the front driveshaft.
Refer to: [Front Driveshaft](#) (205-01 Driveshaft, Removal and Installation).
10. Refill and check the front differential fluid level.
Refer to: [Differential Draining and Filling](#) (205-03 Front Drive Axle/Differential, General Procedures).
11. Install the front axle skid plate and the bolts.
Torque: 22 lb.ft (30 Nm)



12. Install the engine undershield and the bolts.
Torque: 22 lb.ft (30 Nm)





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