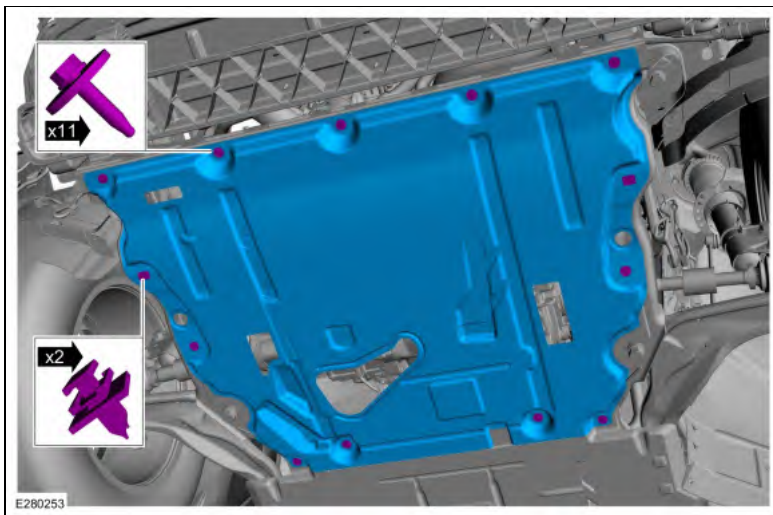
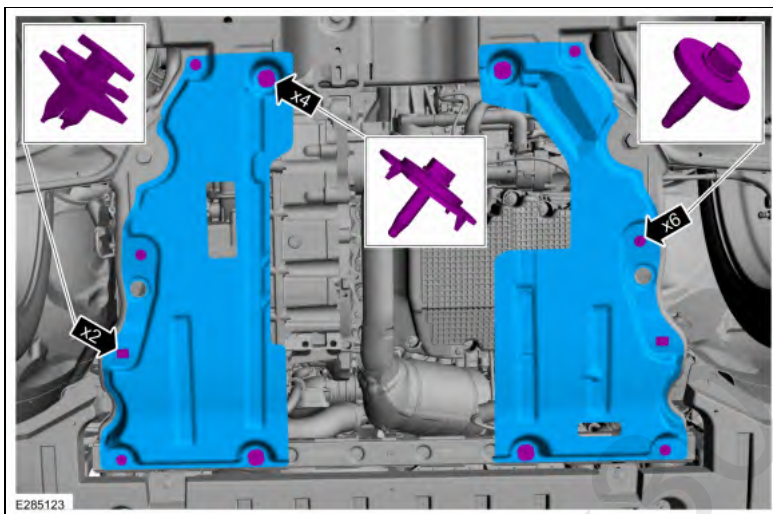
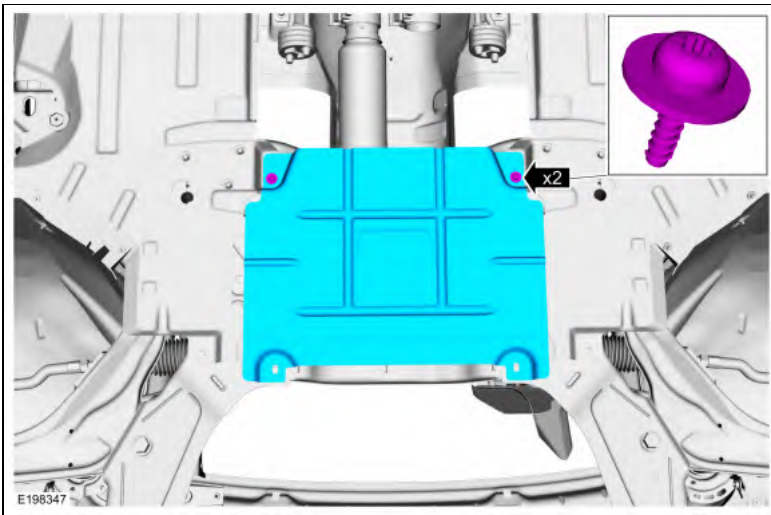




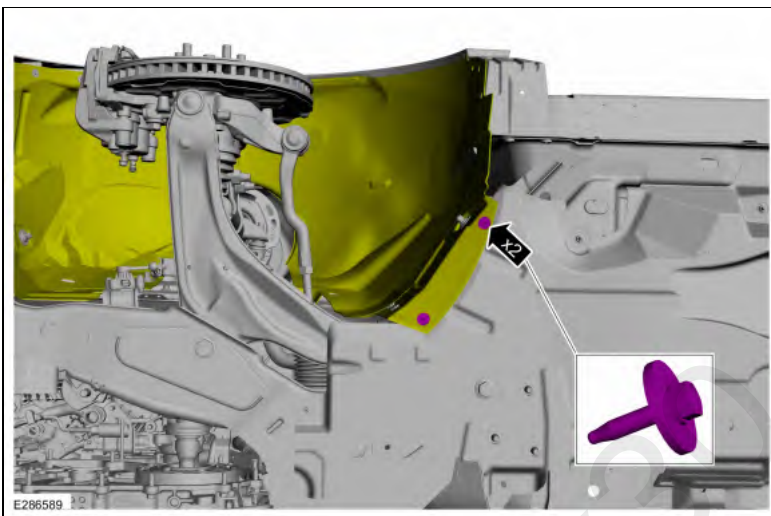
8. If equipped.
Remove the retainers and the dual under body shields.



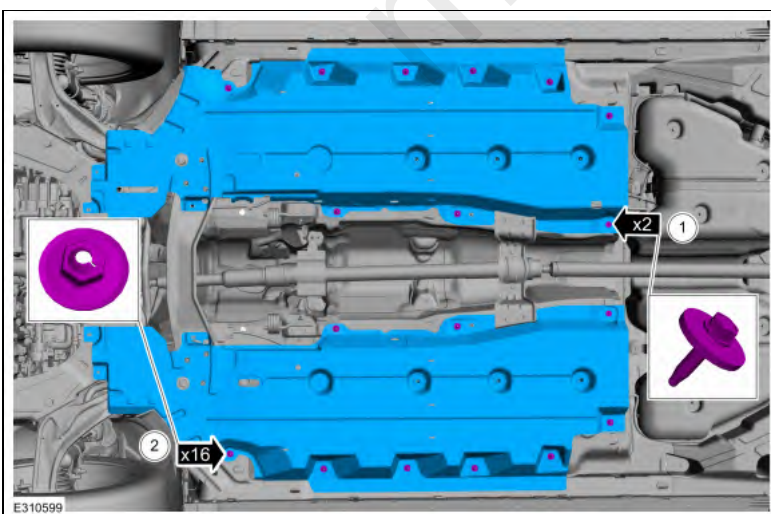
9. Remove the retainers and the center under body shield.



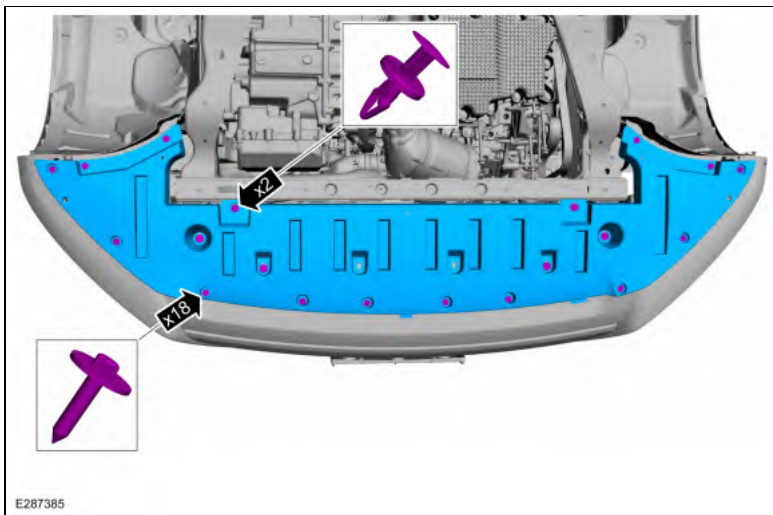
10. On both side
Remove the retainers and separate the fender splash shield



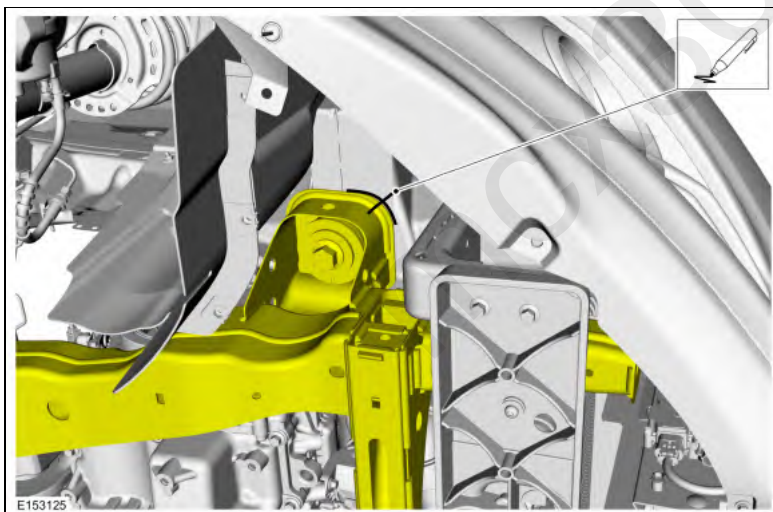
11. Remove the front air deflectors.
1. Remove the bolts.
2. Remove the stamped nuts and the front air deflectors.



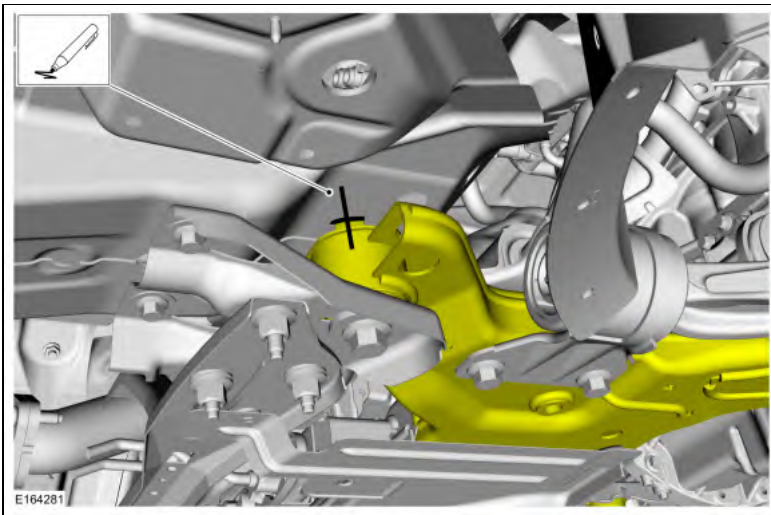
12. Remove the retainers and the front under body shield.



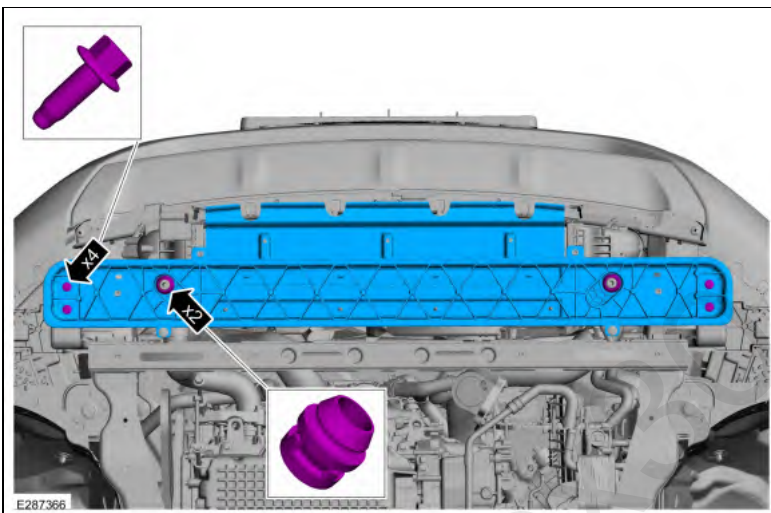
13. On both sides.
Index-mark the subframe for reference during installation.



14. On both sides.
Index-mark the subframe for reference during installation.



15. Remove the retainers and the radiator core support.
Torque: 177 lb.in (20 Nm)



16. **NOTICE:** Do not use a hammer to separate the outer tie-rod end from the wheel knuckle or damage to the wheel knuckle may result.

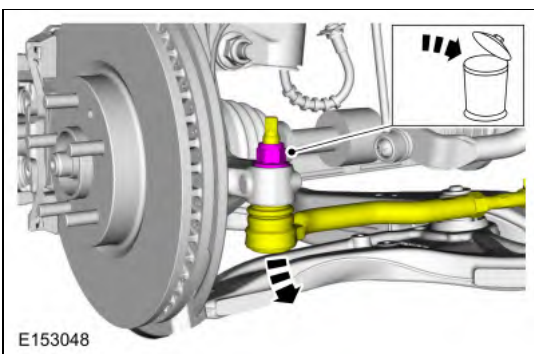
NOTICE: Use care when installing the tie rod separator or damage to the outer tie-rod end boot may occur.

On both sides.

Remove and discard the tie rod end nut and separate the tie rod end from the wheel knuckle.

Use the General Equipment: Tie Rod End Remover

Torque: 111 lb.ft (150 Nm)



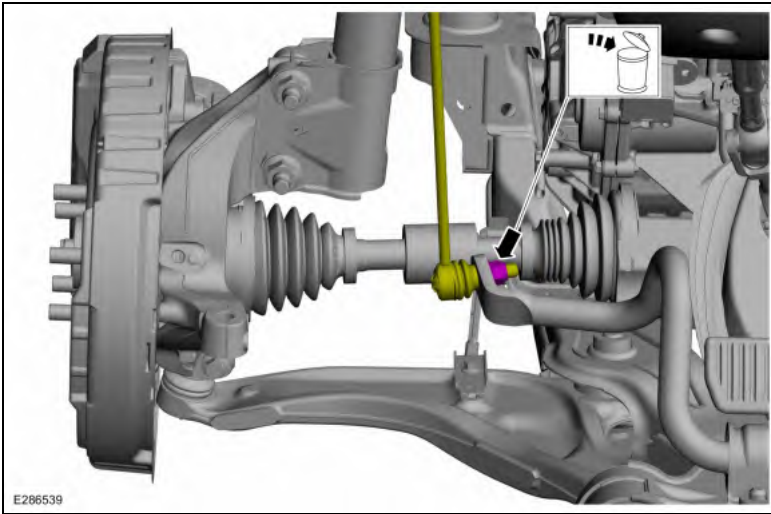
17. **NOTE:** The stabilizer bar links are designed with low friction ball joints that have a low breakaway torque.

NOTE: Use the hex-holding feature to prevent the ball stud from turning while removing or installing the stabilizer bar link nut.

On both sides.

Remove and discard the stabilizer bar link lower nut and separate the stabilizer bar link from the stabilizer bar.

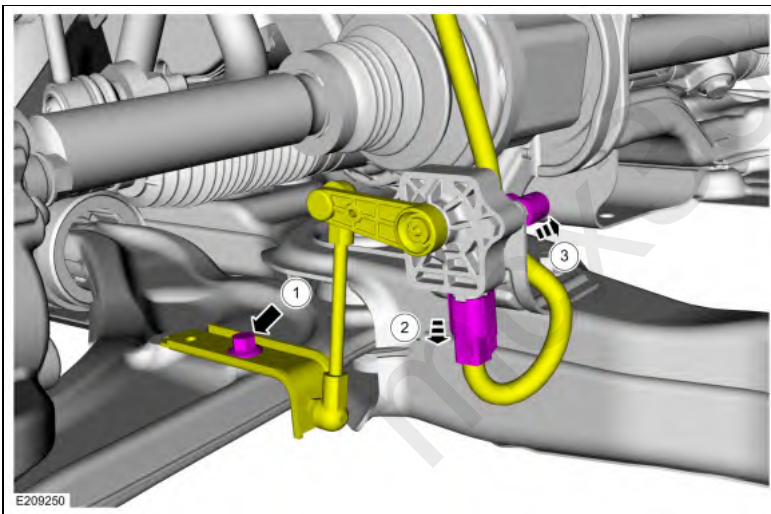
Torque: 85 lb.ft (115 Nm)



18. **NOTICE:** The front suspension height sensor must be disconnected from the lower control arm prior to servicing suspension components or damage to the suspension height sensor and/or the vehicle dynamic suspension system may occur. The sensor will need to be recalibrated after reassembly.

If equipped

1. Remove the front height sensor arm bracket bolt and position the front height sensor arm bracket aside.
2. Disconnect the front height sensor electrical connector.
3. Unclip the front height sensor wire harness from the front height sensor and position the harness aside.

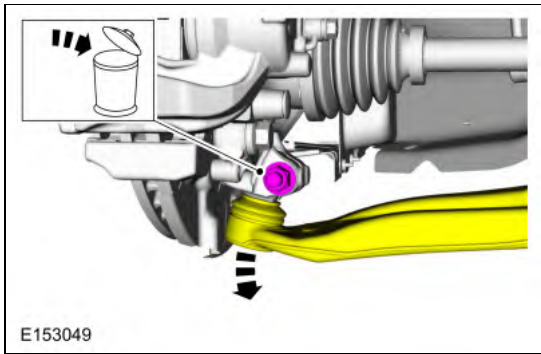


19. **NOTICE:** Do not use a prying device or separator fork between the ball joint and the wheel knuckle. Damage to the ball joint or ball joint seal may result. Only use the pry bar by inserting it into the lower arm body opening.

NOTICE: Use care when releasing the lower arm and wheel knuckle into the resting position or damage to the ball joint seal may occur.

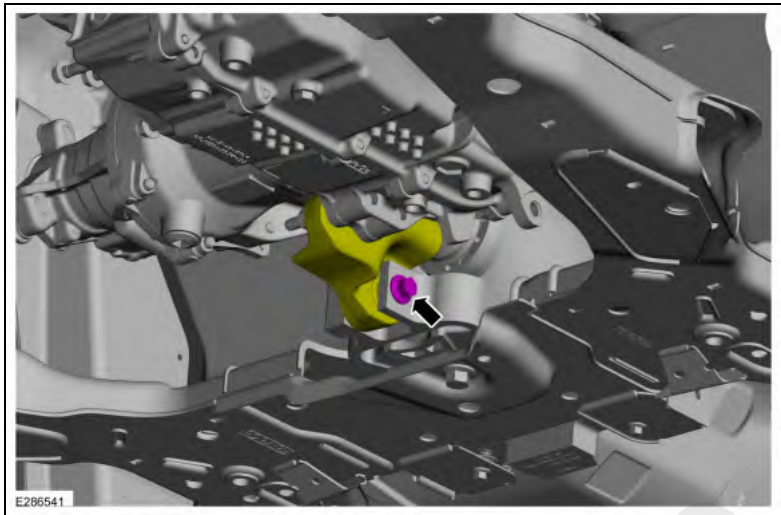
On both sides.

Remove and discard the lower ball joint pinch bolt and separate the lower ball joint from the wheel knuckle.



20. **NOTE:** 2.0L EcoBoost.

Remove the roll restrictor bolt.

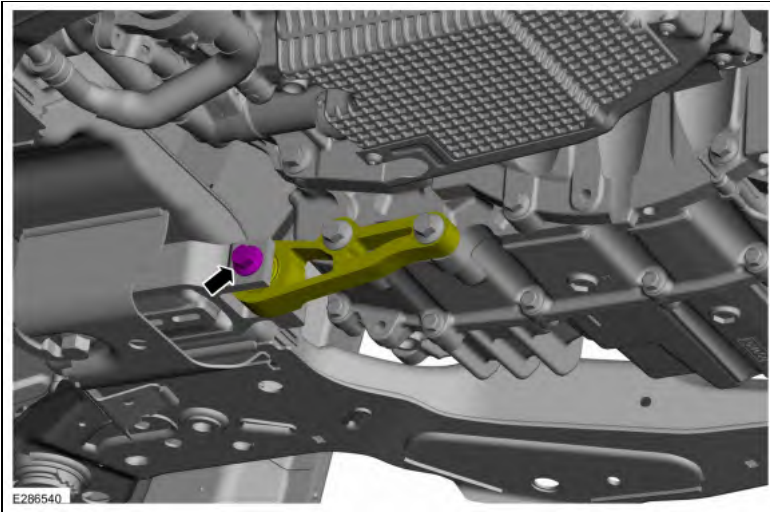


21. **NOTE:** 2.7L EcoBoost.

Remove the exhaust flexible pipe.
Refer to: Exhaust Flexible Pipe (309-00B Exhaust System - 2.7L EcoBoost (238kW/324PS), Removal and Installation).

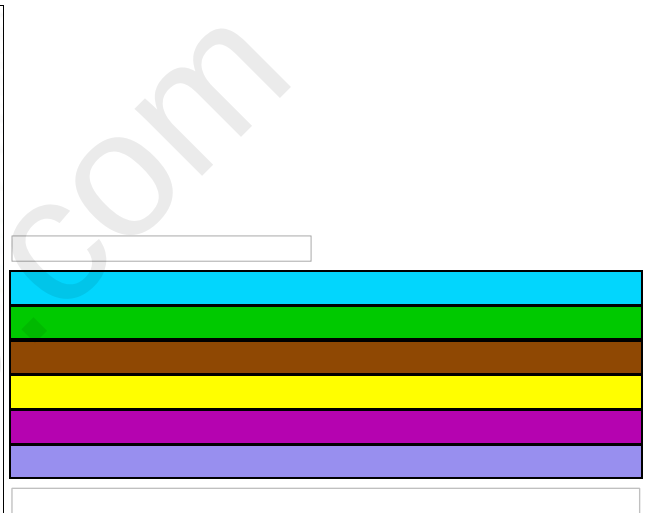
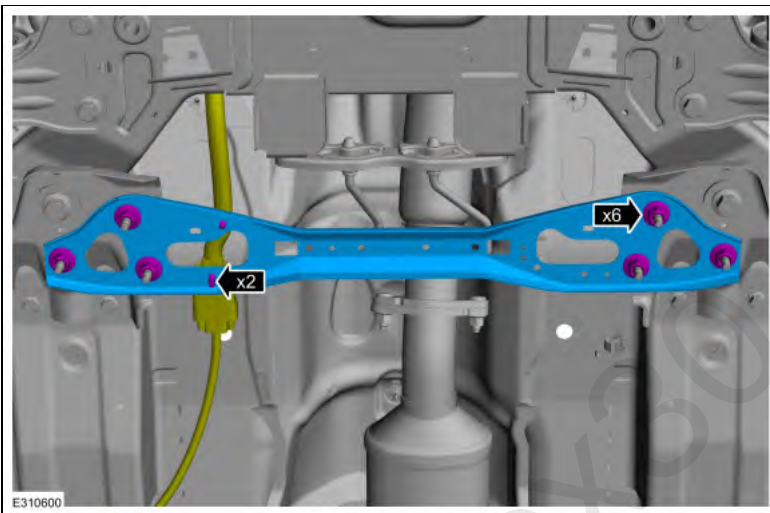
22. **NOTE:** 2.7L EcoBoost.

Remove the roll restrictor bolt.



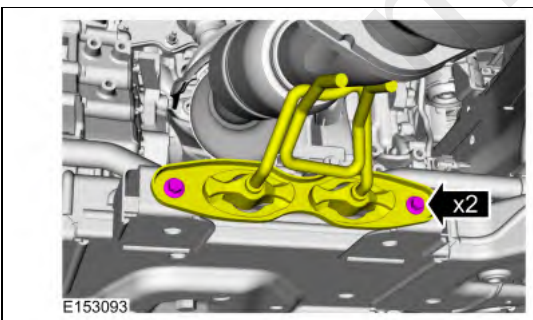
23. **NOTE:** 2.0L EcoBoost vehicle shown, others similar.

- Detach the wiring harness retainers.
- Remove the nuts and the front crossmember brace.

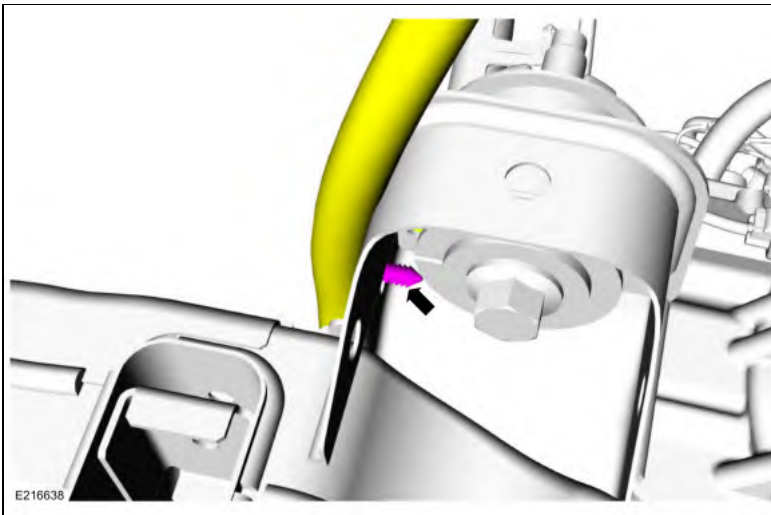


24. **NOTE:** 2.0L EcoBoost.

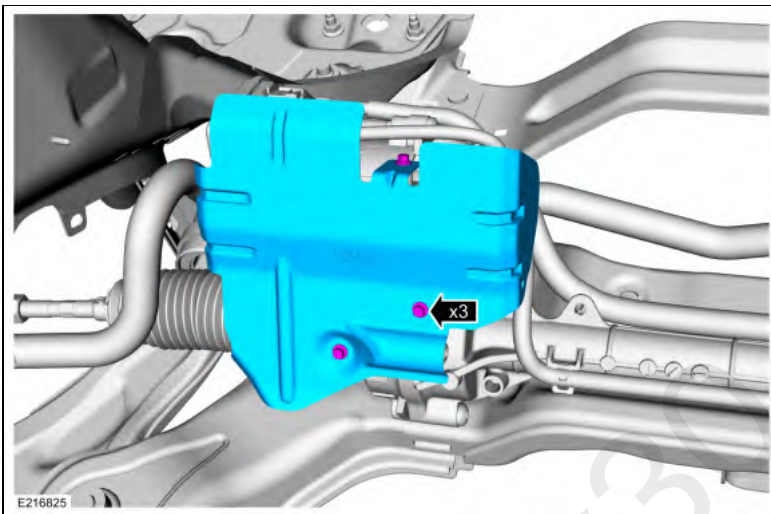
Remove the retainers and the exhaust support bracket.



25. Disconnect the body harness pushpin from the front of the subframe.

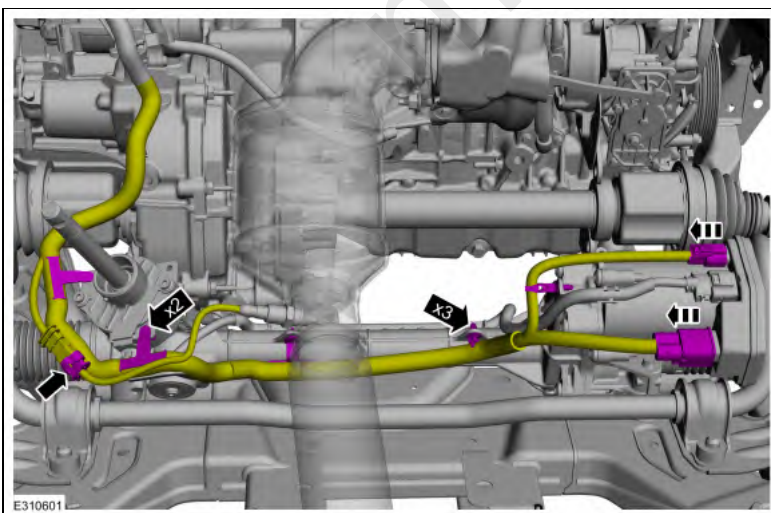


26. If equipped
Remove the retainers and the steering gear heat shield.



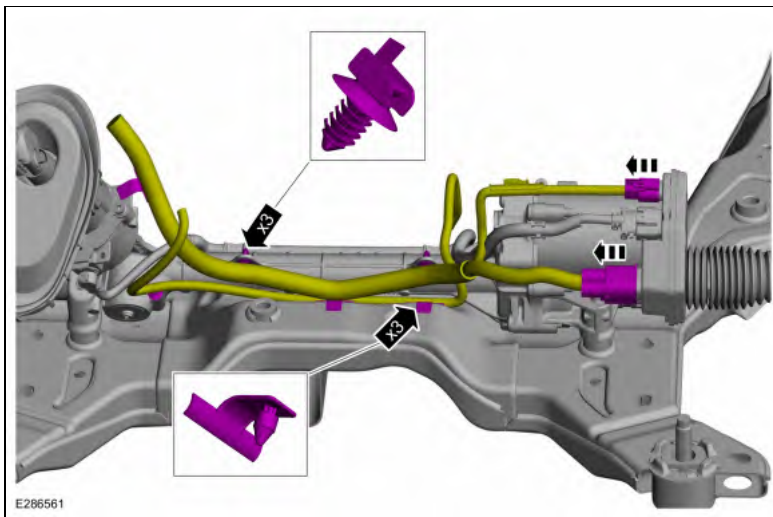
27. **NOTE:** 2.0L EcoBoost.

- Disconnect the catalyst monitor sensor connector.
- Disconnect the EPAS electrical connectors and unclip the harness.

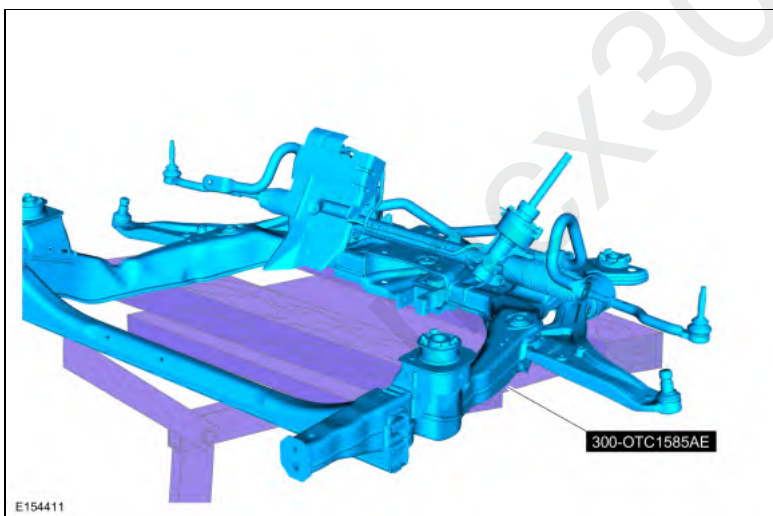


28. **NOTE:** 2.7L EcoBoost.

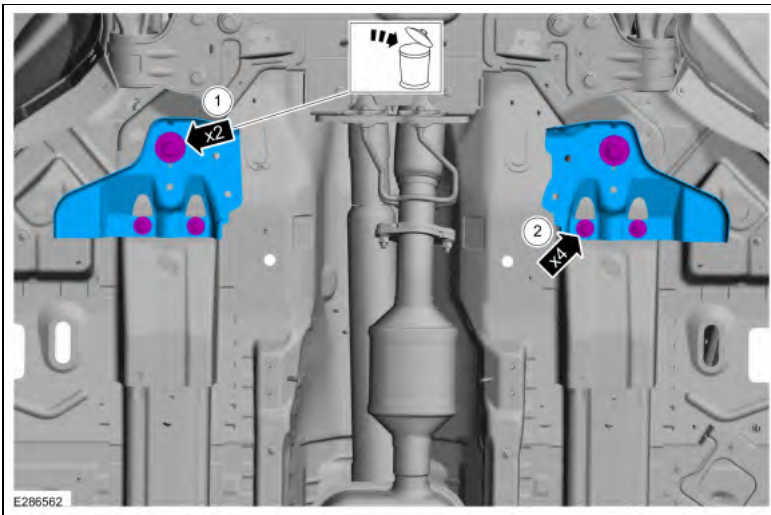
Disconnect the EPAS electrical connectors and unclip the harness.



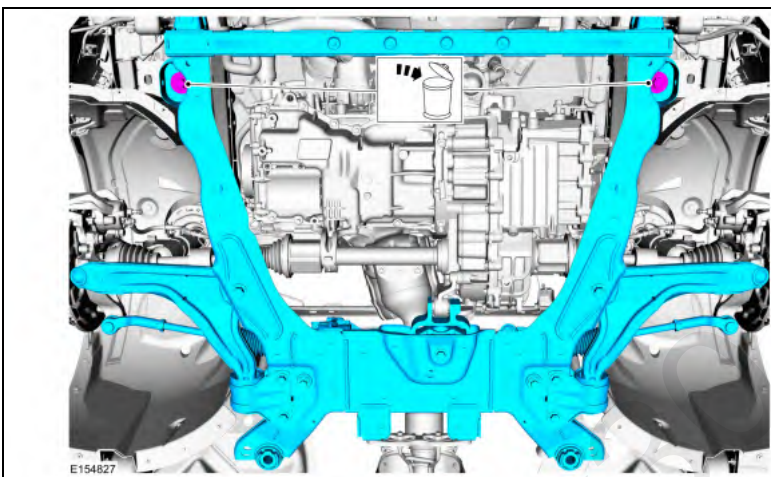
29. Position the powertrain lift under the subframe.
 Use Special Service Tool: 300-OTC1585AE Powertrain Lift.
 Use the General Equipment: Wooden Block



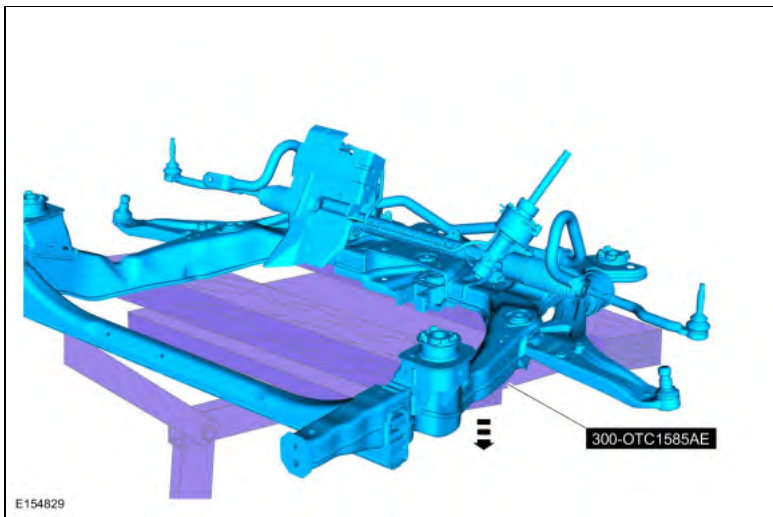
- 30.
1. Remove and discard the rearward subframe bolts.
 2. Remove the bolts and the subframe brackets.



31. Remove and discard the forward subframe bolts.

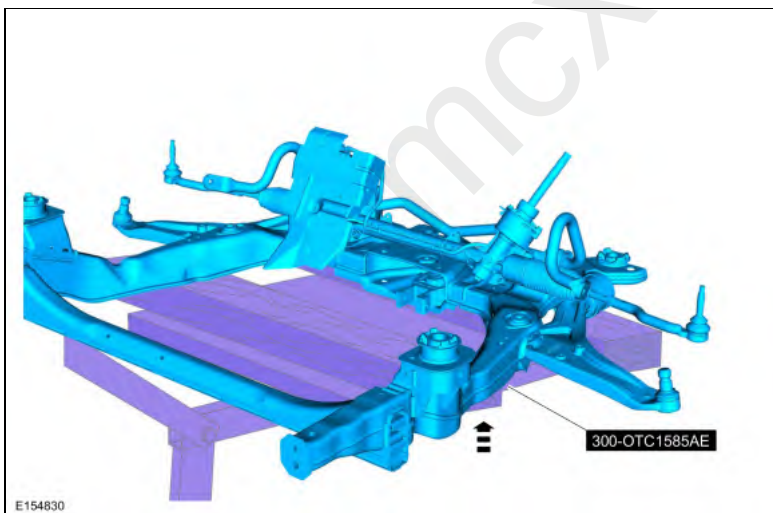


32. Lower the subframe assembly from the vehicle.
 Use Special Service Tool: 300-OTC1585AE Powertrain Lift.
 Use the General Equipment: Wooden Block



Installation

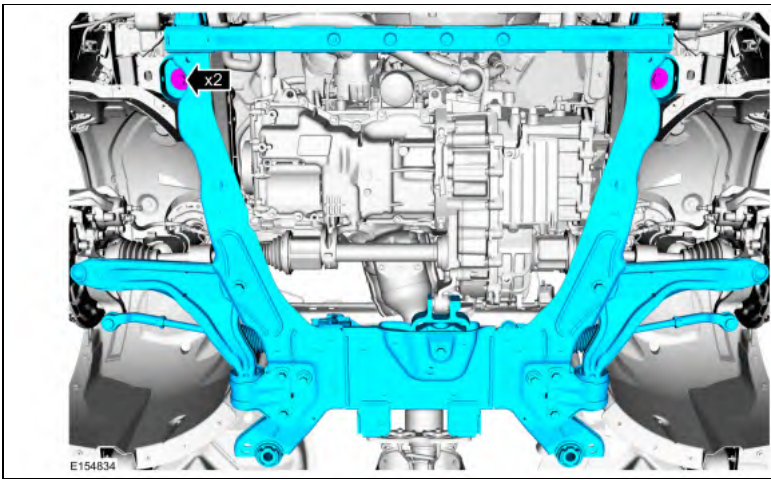
1. Raise the subframe assembly and position it to the vehicle.
Use Special Service Tool: 300-OTC1585AE Powertrain Lift.
Use the General Equipment: Wooden Block



2. **NOTE:** Align reference marks made during removal.

NOTE: Only tighten the bolts finger tight at this stage.

Install the new forward subframe bolts.



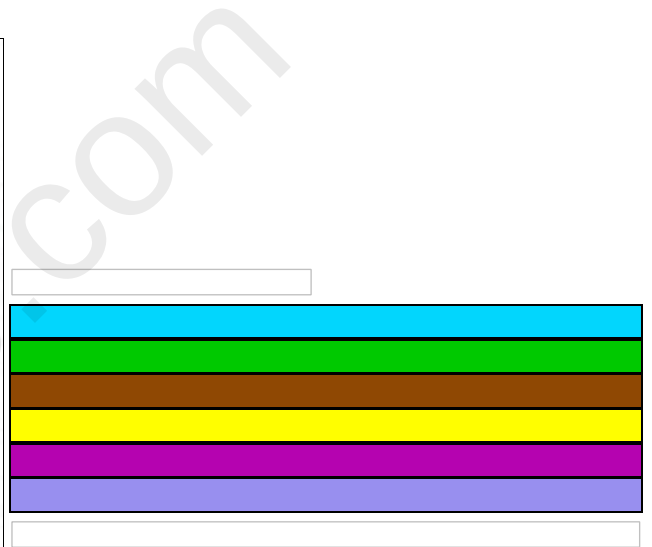
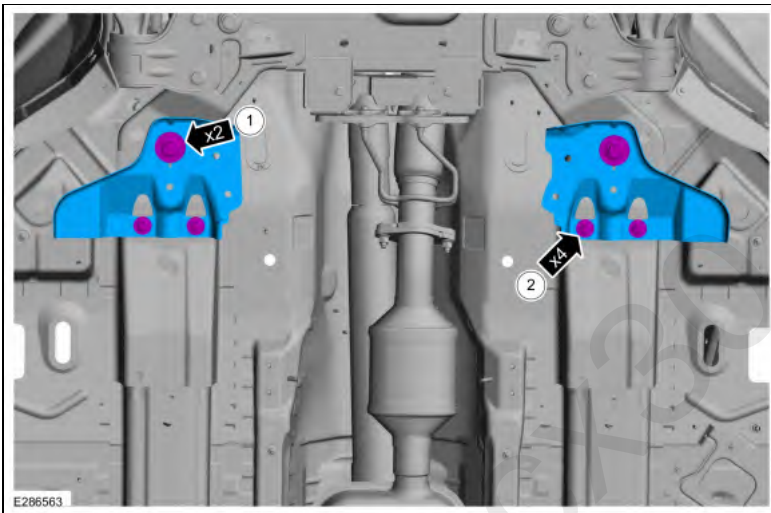
3.

1. **NOTE:** Only tighten the bolts finger tight at this stage.

Install the subframe brackets and the bolts.

2. **NOTE:** Only tighten the bolts finger tight at this stage.

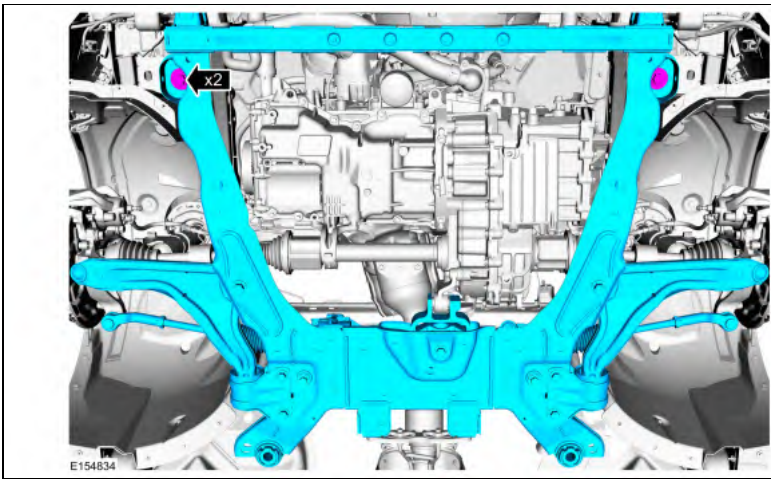
Install the new rearward subframe bolts.



4. **NOTE:** While tightening the subframe bolts, make sure the front subframe does not move.

Tighten the new forward subframe bolts.

Torque: 173 lb.ft (235 Nm)



5. **NOTE:** While tightening the subframe bolts, make sure the front subframe does not move.

1. Tighten the new rearward subframe bolts.

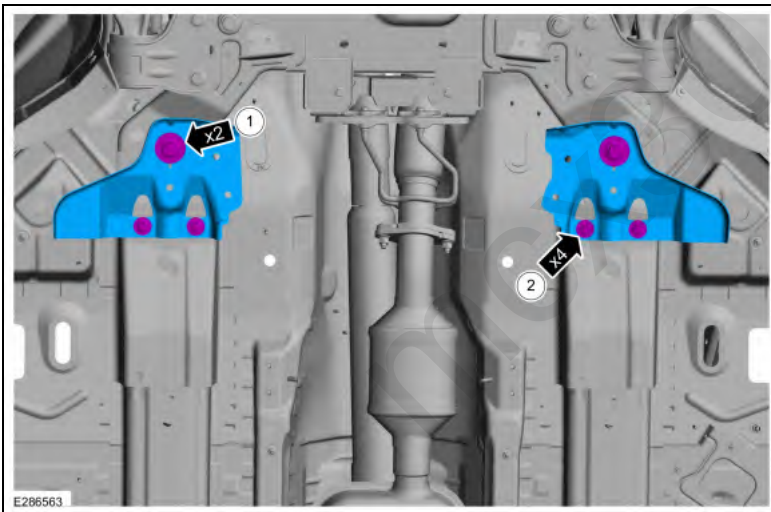
Torque:

Stage 1: 76 lb.ft (103 Nm)

Stage 2: 270°

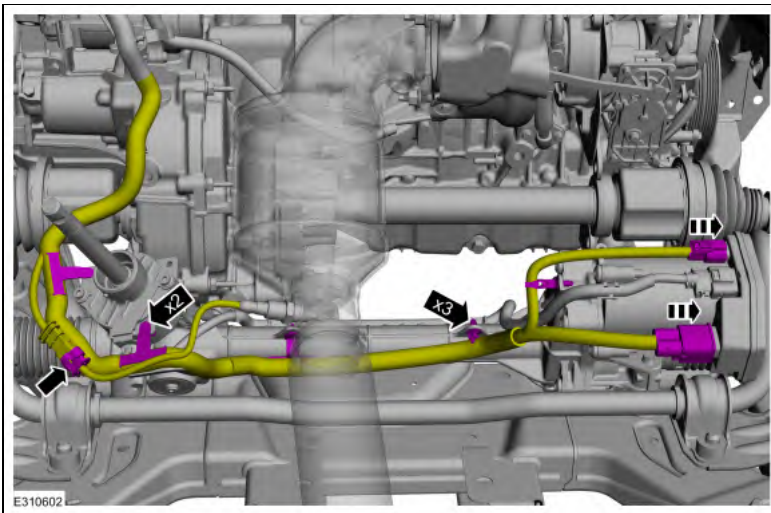
2. Tighten the subframe bracket bolts.

Torque: 35 lb.ft (48 Nm)



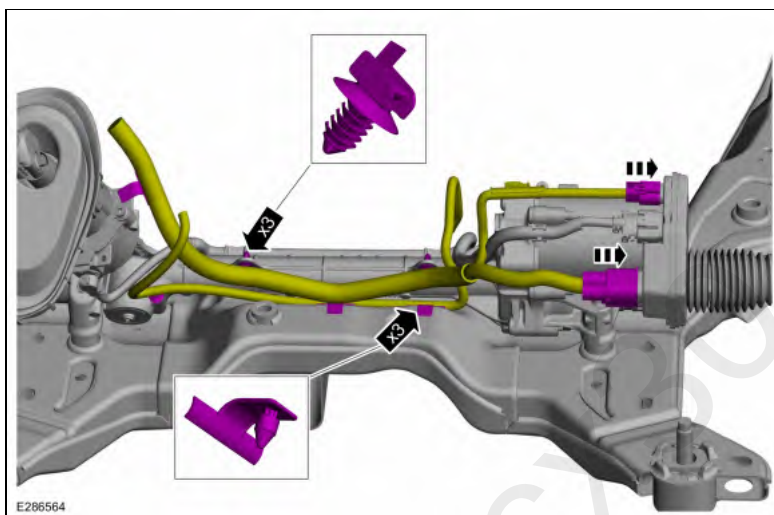
6. **NOTE:** 2.0L EcoBoost.

- Clip the harness and connect the EPAS electrical connectors.
- Connect the catalyst monitor sensor connector.

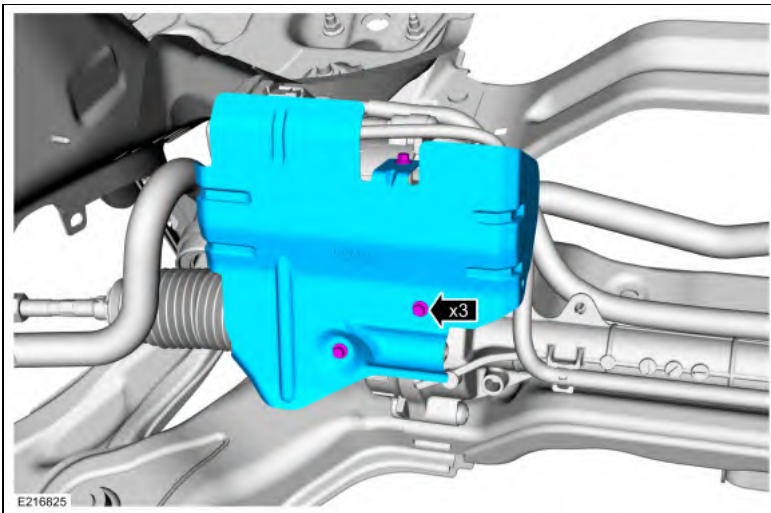


7. **NOTE:** 2.7L EcoBoost.

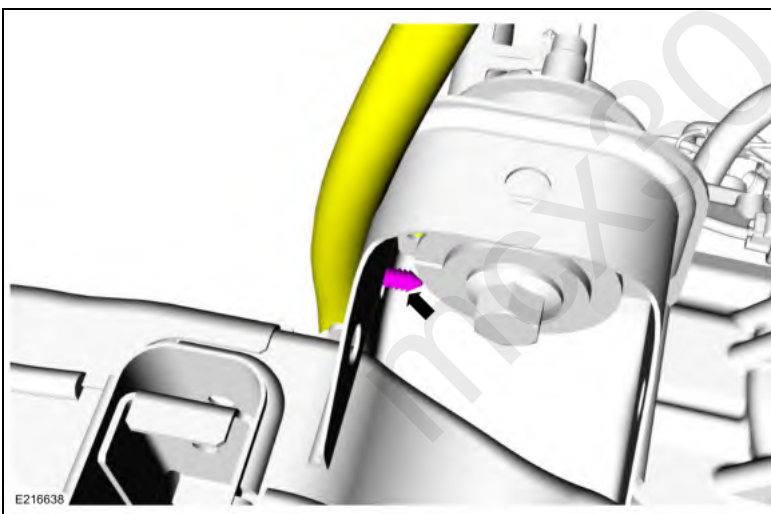
Clip the harness and connect the EPAS electrical connectors.



8. If equipped
Position the steering gear heat shield and install the retainers.
Torque: 71 lb.in (8 Nm)

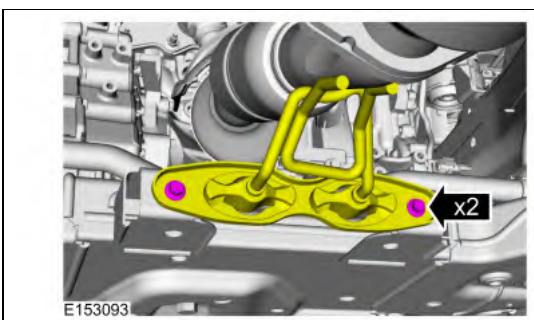


9. Connect the body harness pushpin to the front of the subframe.



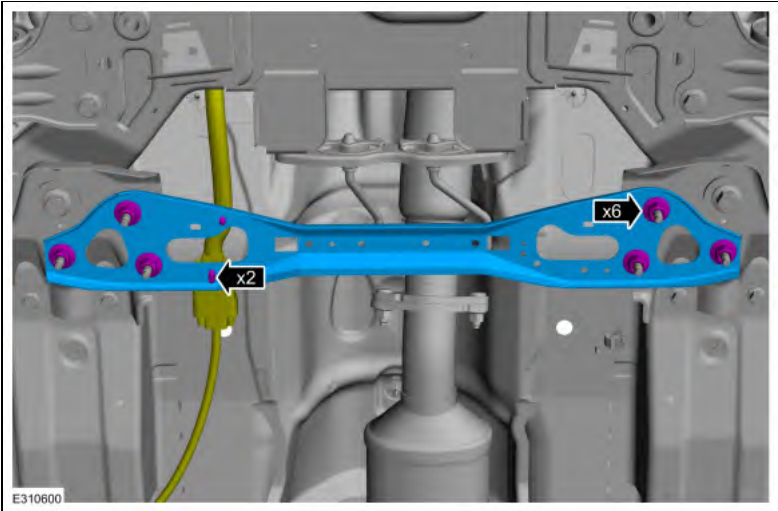
10. **NOTE:** 2.0L EcoBoost.

Install the exhaust support bracket and the retainers.
Torque: 18 lb.ft (25 Nm)



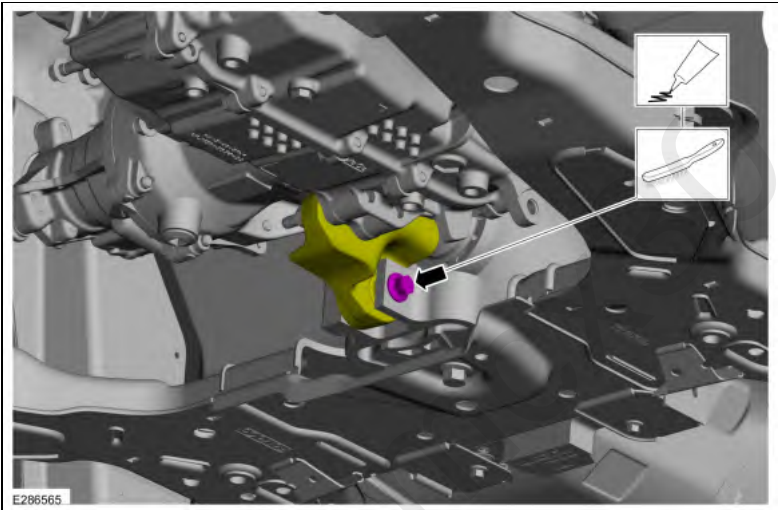
11. **NOTE:** 2.0L EcoBoost vehicle shown, others similar.

- Install the front crossmember brace and the retainers.
Torque: 30 lb.ft (40 Nm)
- Attach the wiring harness retainers.



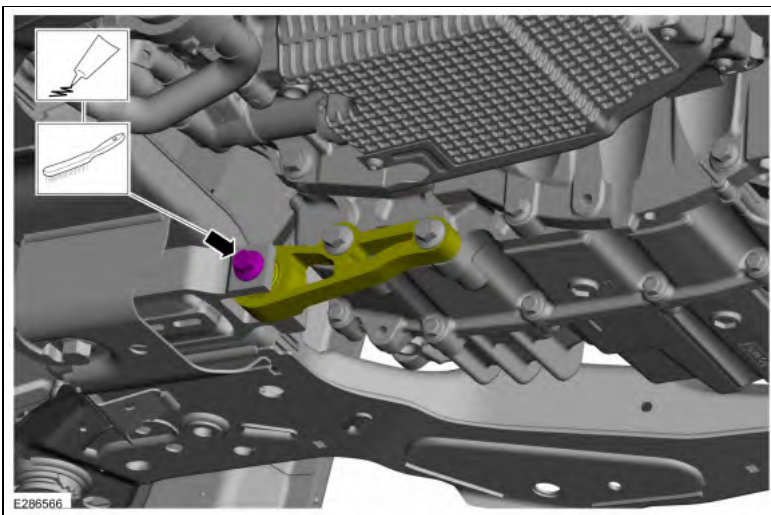
12. **NOTE:** 2.0L EcoBoost.

Clean, apply adhesive and install the roll restrictor bolt.
Material: Motorcraft® Threadlock 262 / TA-26 (WSK-M2G351-A6)
Torque: 85 lb.ft (115 Nm)



13. **NOTE:** 2.7L EcoBoost.

Clean, apply adhesive and install the roll restrictor bolt.
Material: Motorcraft® Threadlock 262 / TA-26 (WSK-M2G351-A6)
Torque: 85 lb.ft (115 Nm)



14. **NOTE:** 2.7L EcoBoost.

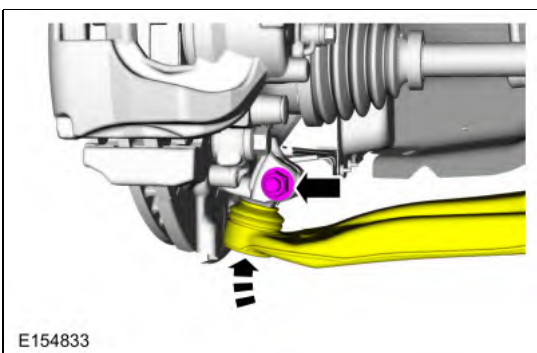
Install the exhaust flexible pipe.

Refer to: Exhaust Flexible Pipe (309-00B Exhaust System - 2.7L EcoBoost (238kW/324PS), Removal and Installation).

15. On both sides.

Position the ball joint into the wheel knuckle and install the new ball joint pinch bolt and nut.

Torque: 76 lb.ft (103 Nm)

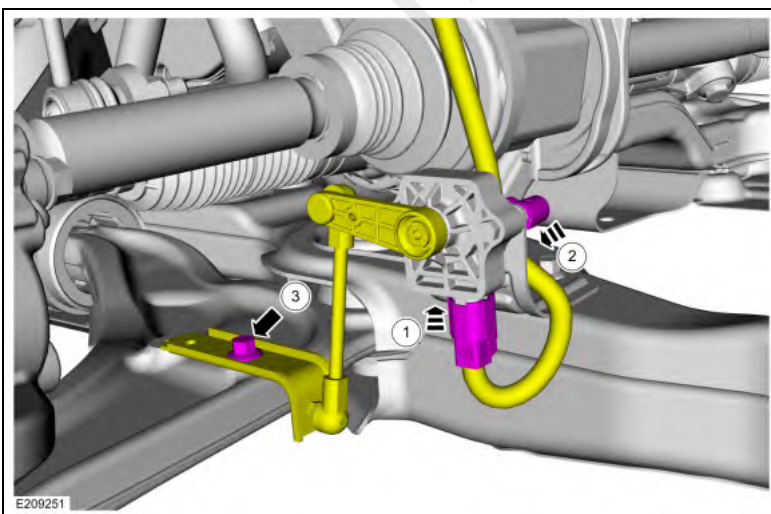


16. **NOTICE:** The front suspension height sensor must be disconnected from the lower control arm prior to servicing suspension components or damage to the suspension height sensor and/or the vehicle dynamic suspension system may occur. The sensor will need to be recalibrated after reassembly.

If equipped

1. Connect the front height sensor electrical connector.
2. Position the front height sensor wire harness and clip the harness to the front height sensor.
3. Position the front height sensor arm bracket and install the front height sensor arm bracket bolt.

Torque: 177 lb.in (20 Nm)



17. Calibrate the suspension height sensor. Connect the scan tool and carry out the Ride Height Calibration routine, following the scan tool directions.

18. To install, reverse the removal procedure.

19. Install the wheels and tires.

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

20. Connect the battery ground cable.
Refer to: Battery Disconnect and Connect (414-01 Battery, Mounting and Cables, General Procedures).
 21. Check and if necessary adjust front toe.
Refer to: Front Toe Adjustment (204-00 Suspension System - General Information, General Procedures).
Refer to: Front Toe Adjustment - Vehicles With: Active Steering (204-00 Suspension System - General Information, General Procedures).
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Rear Subframe - AWD

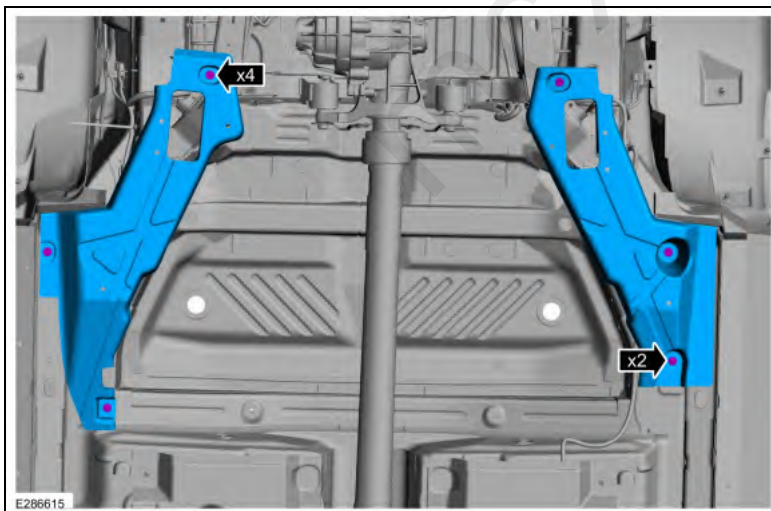
Special Tool(s) / General Equipment

	300-OTC1585AE Powertrain Lift
Wooden Block	

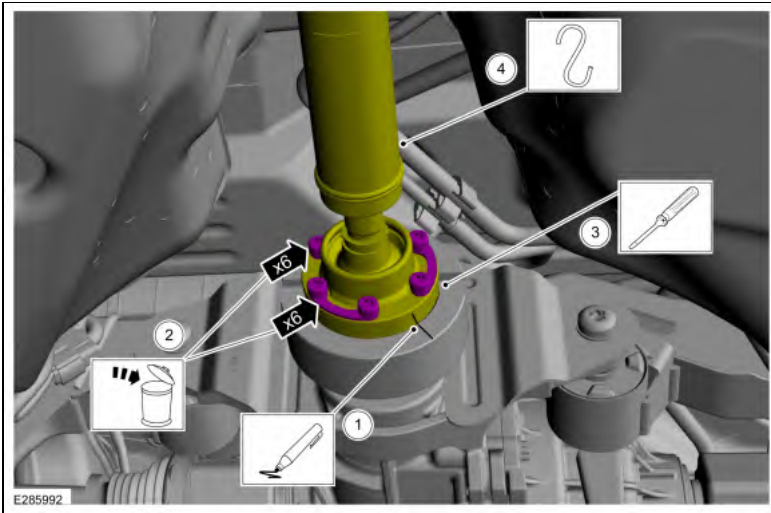
Removal

NOTICE: Suspension fasteners are critical parts that affect the performance of vital components and systems. Failure of these fasteners may result in major service expense. Use the same or equivalent parts if replacement is necessary. Do not use a replacement part of lesser quality or substitute design. Tighten fasteners as specified.

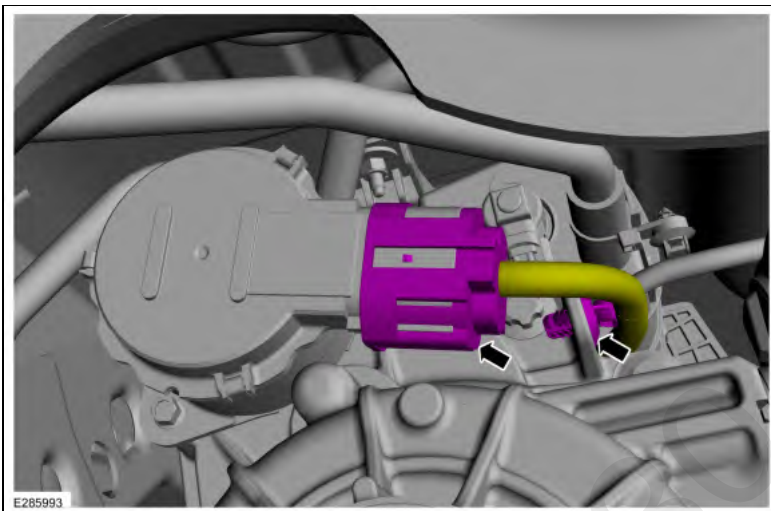
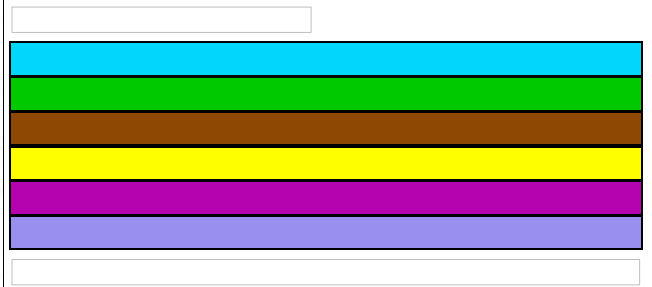
1. On both sides.
Remove the rear halfshaft.
Refer to: Rear Halfshaft (205-05 Rear Drive Halfshafts, Removal and Installation).
2. On both sides.
Remove the rear toe link.
Refer to: Toe Link (204-02 Rear Suspension, Removal and Installation).
3. On both sides.
Remove the rear lower arm.
Refer to: Lower Arm (204-02 Rear Suspension, Removal and Installation).
4. On both sides.
Remove the rear spring.
Refer to: Spring (204-02 Rear Suspension, Removal and Installation).
5. Remove the rear stabilizer bar.
Refer to: Rear Stabilizer Bar (204-02 Rear Suspension, Removal and Installation).
6. Remove the muffler and tailpipe.
Refer to: Muffler and Tailpipe (309-00A Exhaust System - 2.0L EcoBoost (184kW/250PS) â€” MI4, Removal and Installation).
Refer to: Muffler and Tailpipe (309-00B Exhaust System - 2.7L EcoBoost (238kW/324PS), Removal and Installation).
7. Remove the retainers and the rear air deflectors.



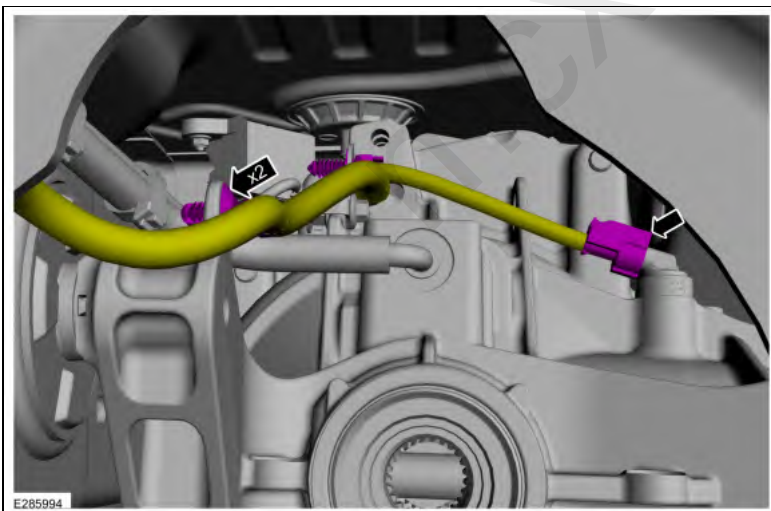
8. Separate the driveshaft from the drive pinion flange.
 1. **NOTE:** Make sure that the component aligns with the installation mark.
Index-mark the driveshaft flange and the RDU companion flange to maintain alignment during installation.
 2. Remove and discard the driveshaft to drive pinion companion flange bolts and the retaining straps.
Torque: 26 lb.ft (35 Nm)
 3. **NOTICE:** Do not remove driveshaft from the pinion flange by pulling on the driveshaft tube. Damage to the CV-joint can result.
Using a general equipment, separate the driveshaft from the drive pinion flange.
 4. Position and support the driveshaft aside.



9. Disconnect the rear DCMR electrical connector and detach wiring harness retainer.



10. Disconnect rear RDU sensor connector and detach wiring harness retainers.



11.
 1. Remove the rear differential vent hose from RDU.
 2. Detach the connector and position the vent hose aside.

