

Full Frame and Body Mounting -

Torque Specifications

Description	Nm	lb-ft
HO2s harness bracket bolt	10	7
Transmission support crossmember nuts and bolts	90	66
Transmission support insulator through-bolt	175	129
Transmission undershield bolts	10	7
*Integrated-body frame to body bolts	133	98

* New bolts must be installed

Full Frame and Body Mounting - Tow Bar Mounting Check

General Procedures

Special Tool(s)	
 E140509	Tow Bar Gauge JLR-501-201

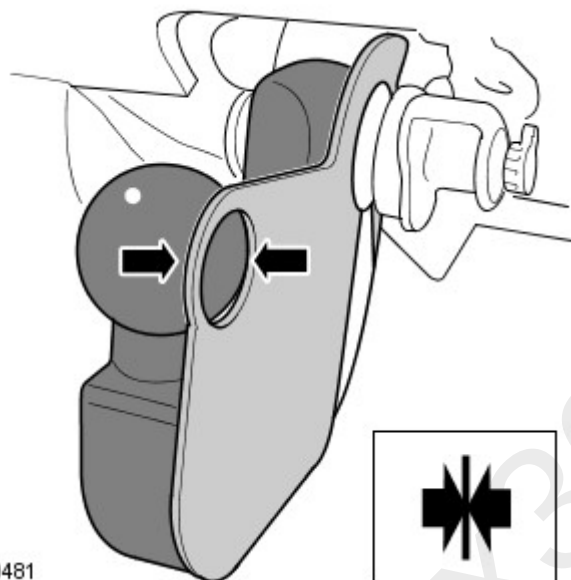
1. **Pre test:** Check the detachable tow bar locking pin is moving freely without sticking.

2. Insert the tow bar into the chassis following the owners handbook instruction.

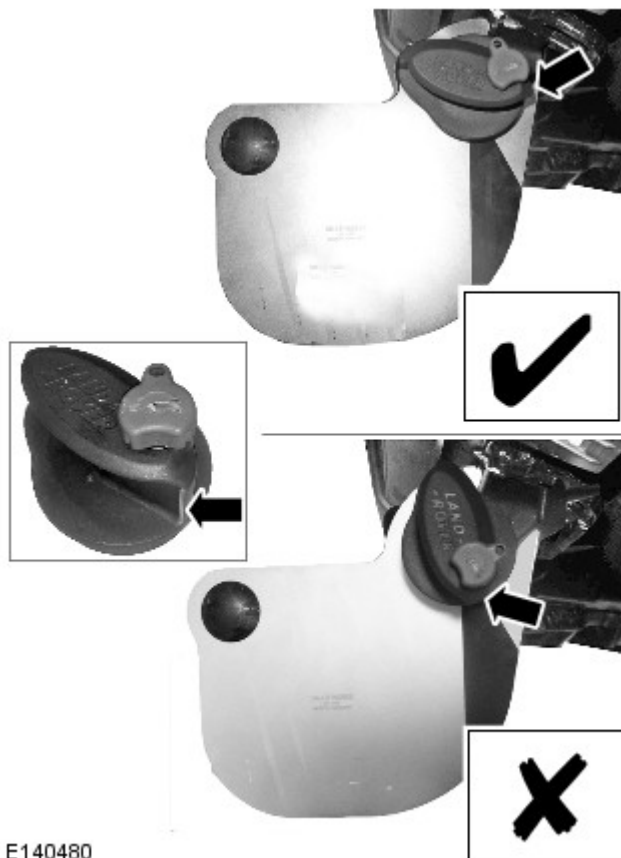


3. **CAUTION:** The special tool must be flat against the tow bar ball before taking measurements.

Hold the special tool JLR-501-201 against the tow bar as shown, failure to follow this instruction may result in an incorrect measurement.



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4.  **CAUTION:** Make sure the special tool is mounted flush to the tow ball.

• **NOTE:** Note the position of the tow bar release handle.

Install the special tool as shown.

5. Check the position of the tow bar release handle against the special tool, and observe the following:

- If the tow bar release handle points to the red area of the special tool, go to Step 6.
- If the tow bar release handle points outside of the red area of the special tool, then the tow bar mounting is correct and no further action is required.

6. Install a new tow bar and check the tow bar mounting following Steps 3 - 5.

- If the tow bar release handle points to the red area of the special tool, install a new rear crossmember. For additional information, refer to: [Rear Crossmember](#) (502-02 Full Frame and Body Mounting, Removal and Installation).

Full Frame and Body Mounting - Transmission Support CrossmemberV6 4.0L Petrol/TDV6 2.7L Diesel

Removal and Installation

Removal

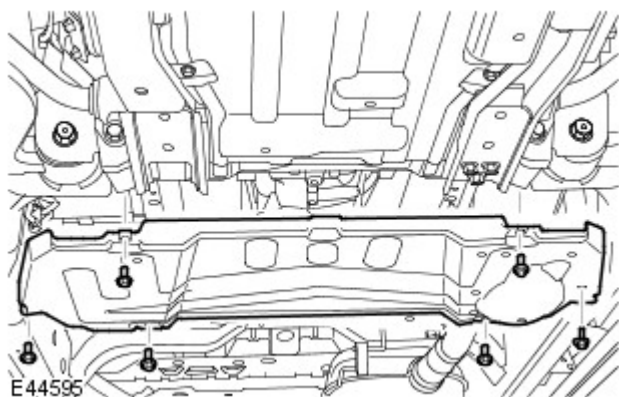
All vehicles

1.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

Raise and support the vehicle.

2. Remove the transmission undershield.

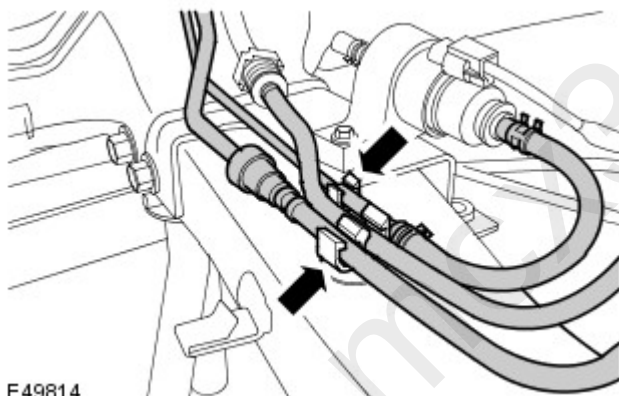
- Remove the 6 bolts.



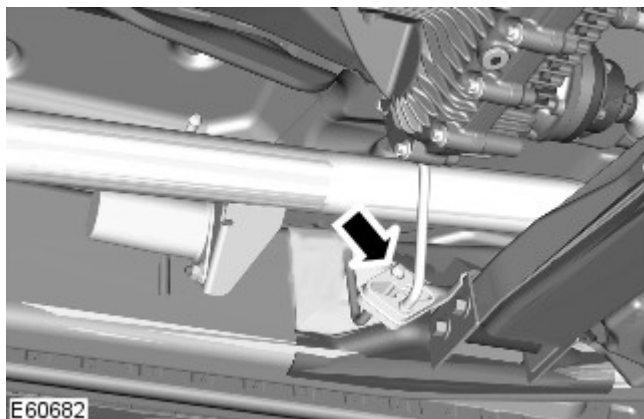
Vehicles with diesel engine

3. Release the 3 fuel lines.

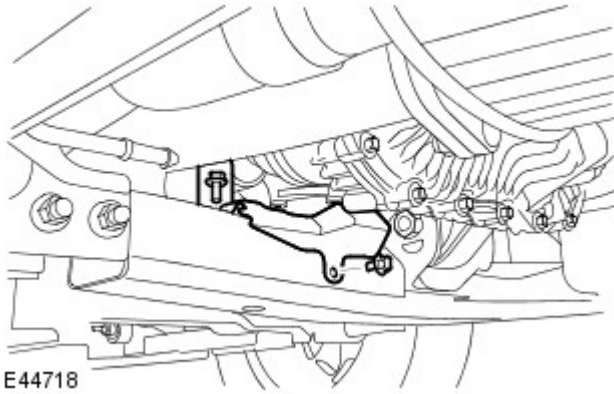
- Release from the 3 clips.



4. Release the exhaust front mounting.



Vehicles with petrol engine



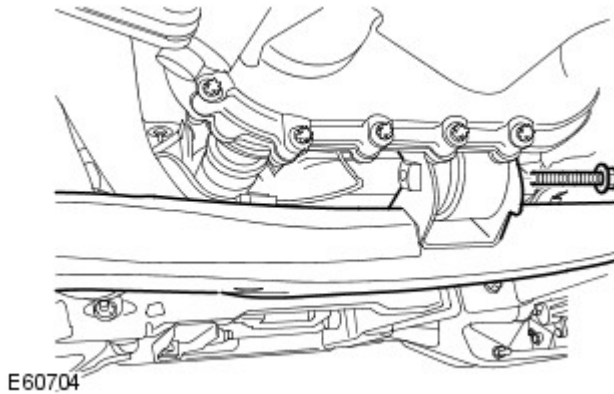
5. Release the HO2S wiring harness and bracket from the crossmember.

- Remove the 2 bolts.
- Tie the bracket aside.

All vehicles

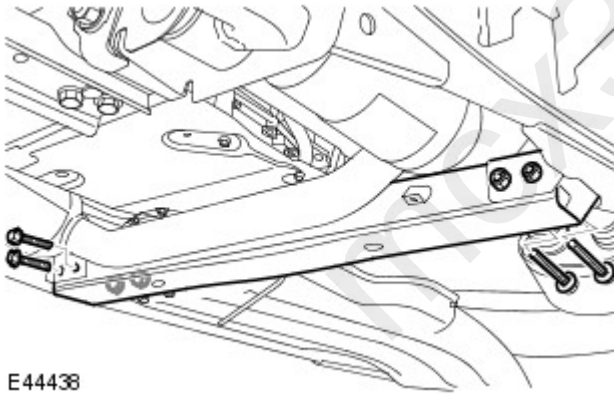
6. Remove the transmission support insulator through-bolt.

- Support the transfer case.



7. Remove the crossmember.

- Remove the 4 nuts and bolts.



Installation

All vehicles

1. Install the crossmember.

- Tighten the nuts and bolts to 90 Nm (66 lb.ft).

2. Install the transmission support insulator through-bolt and tighten to 175 Nm (129 lb.ft).

Vehicles with petrol engine

Vehicles with Diesel engine

Attach the HO2S wiring harness and bracket to the crossmember.

5. Connect the exhaust front mounting.

- Tighten the bolts to 10 Nm (7 lb.ft).

All vehicles

6. Install the transmission undershield.

- Tighten the bolts to 10 Nm (7 lb.ft).

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Full Frame and Body Mounting - Transmission Support CrossmemberTDV6

3.0L Diesel

Removal and Installation

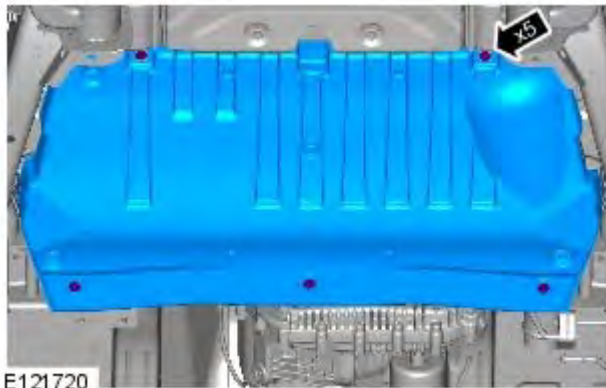
Removal

- NOTE: Some variation in the illustrations may occur, but the essential information is always correct.
- NOTE: Removal steps in this procedure may contain installation details.

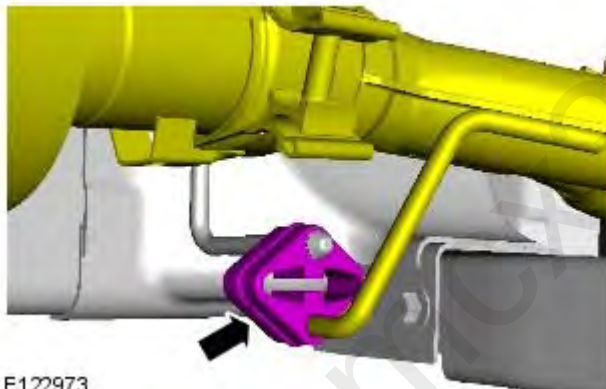
1.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

Raise and support the vehicle.

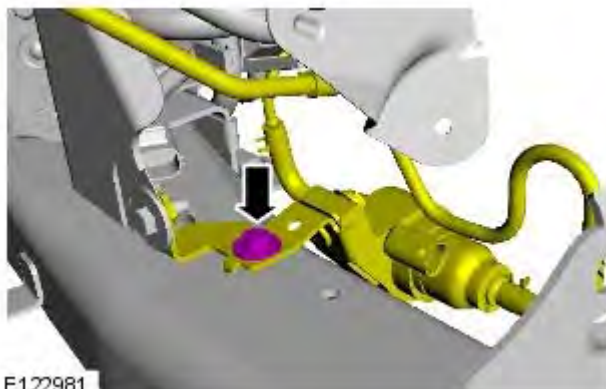
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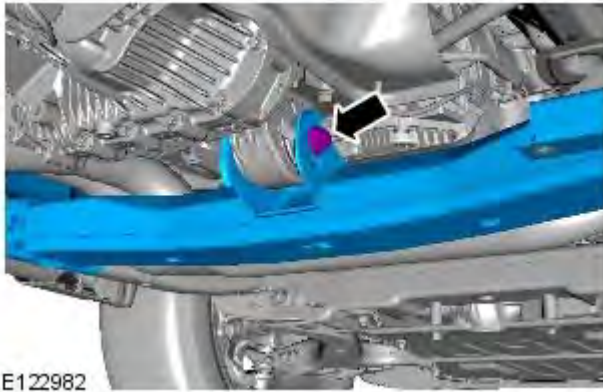


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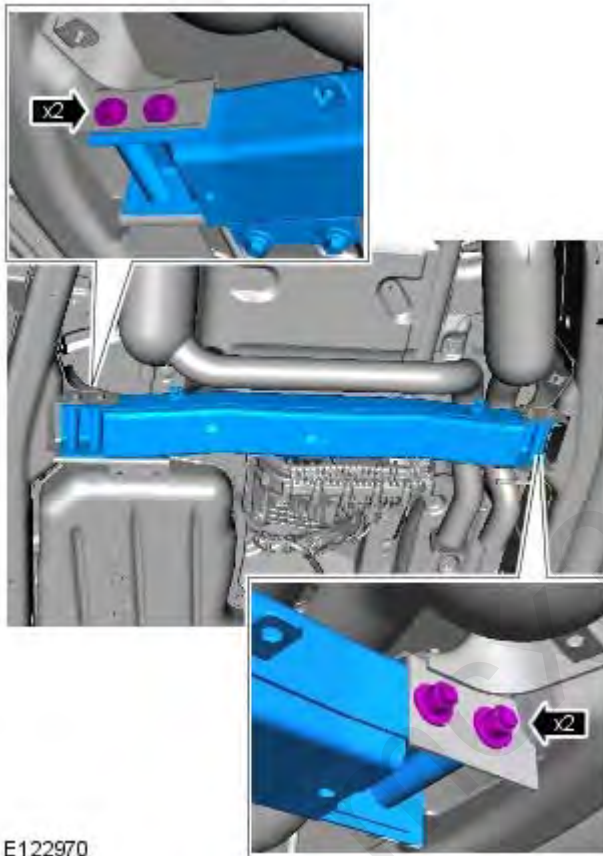
4.





5.

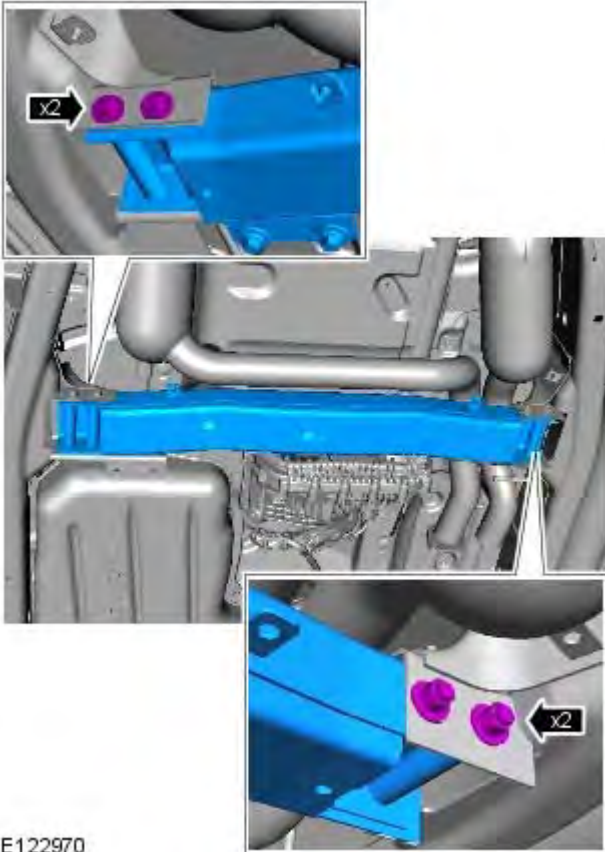
- Support the transfer case.



6.

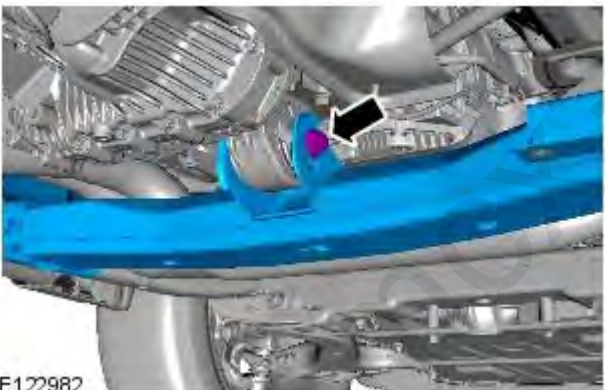
Installation

1. TORQUE: 115 Nm



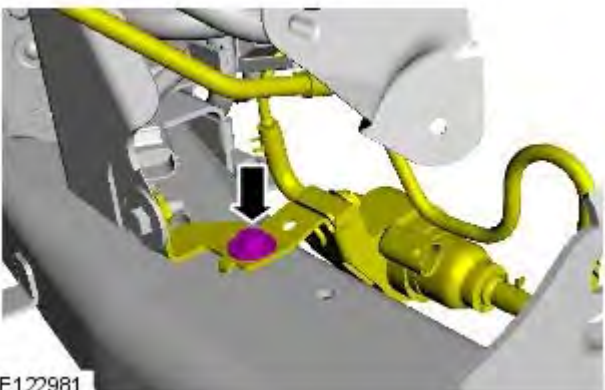
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2. TORQUE: 175 Nm



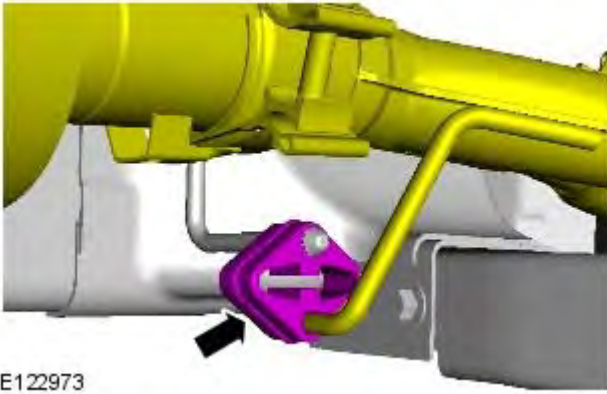
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3. TORQUE: 10 Nm



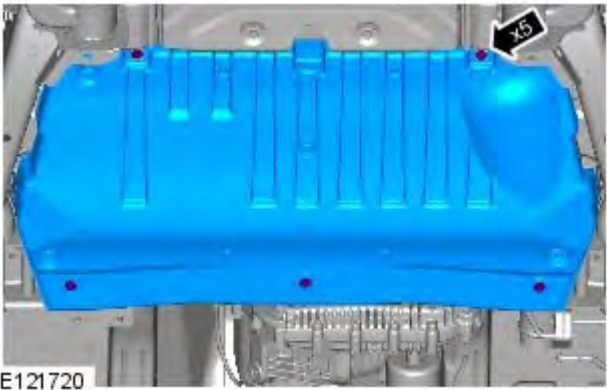
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4.



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5. TORQUE: 10 Nm



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Full Frame and Body Mounting - Transmission Support CrossmemberV8 5.0L Petrol

Removal and Installation

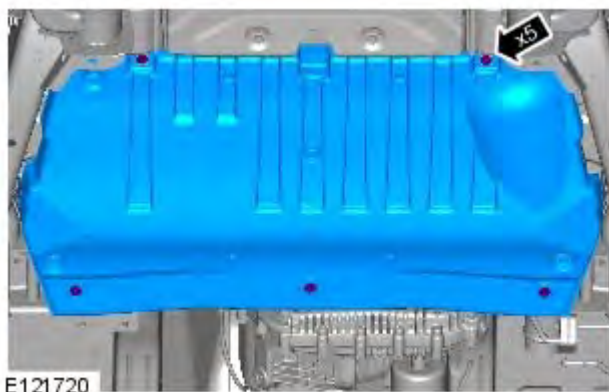
Removal

- NOTE: Some variation in the illustrations may occur, but the essential information is always correct.
- NOTE: Removal steps in this procedure may contain installation details.

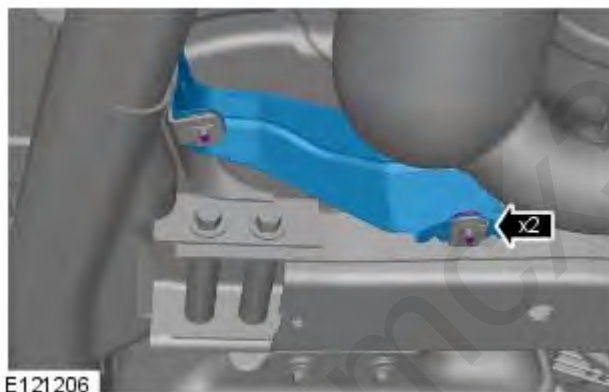
1.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

Raise and support the vehicle.

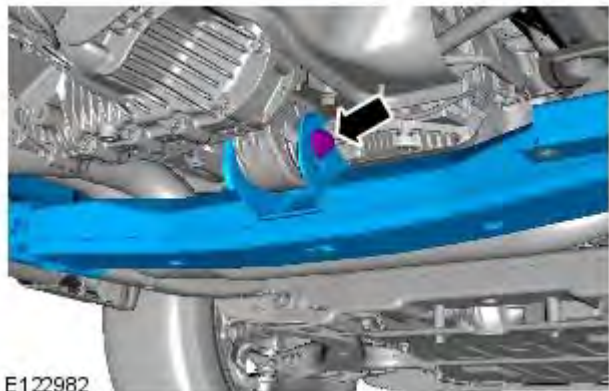
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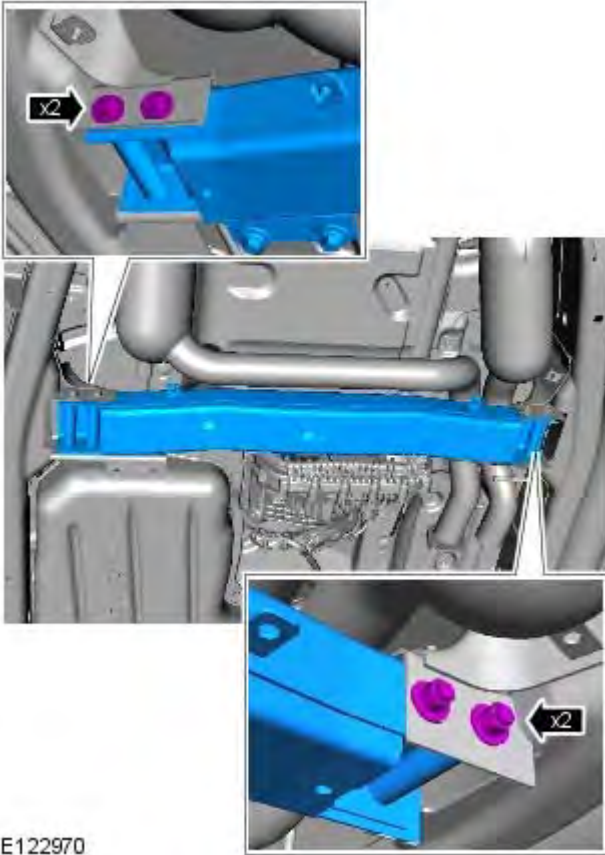
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4.



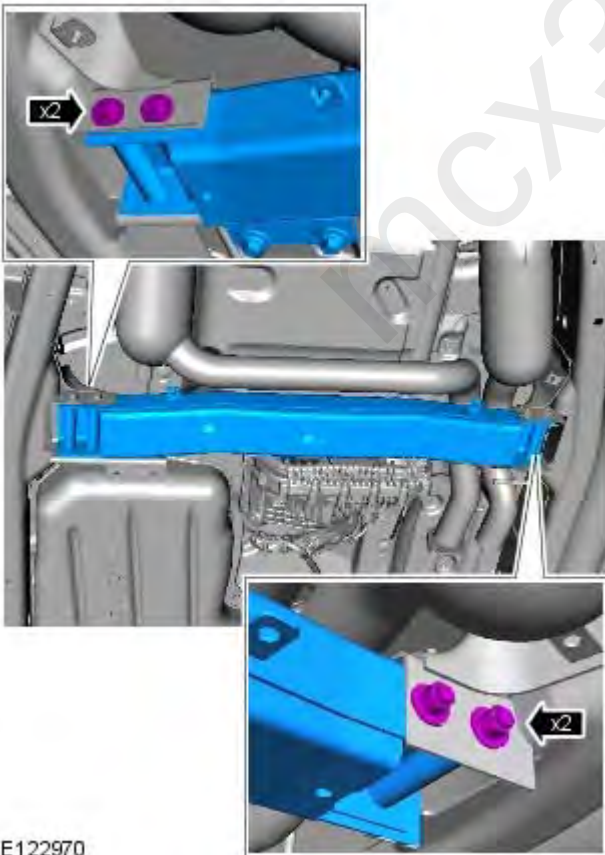
5.



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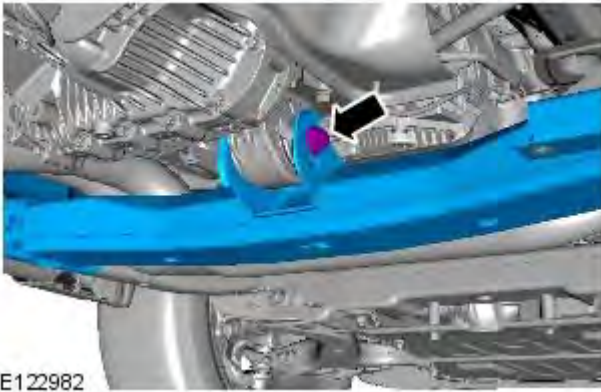
Installation

1. TORQUE: 115 Nm

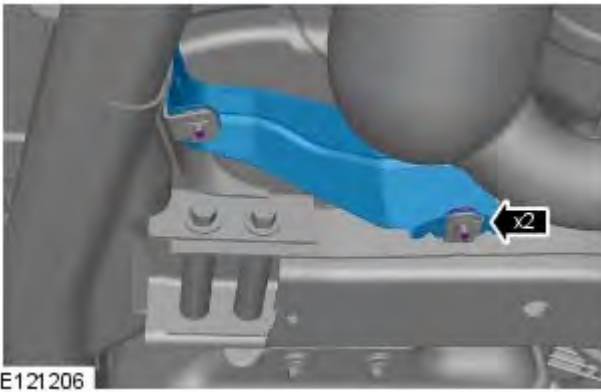


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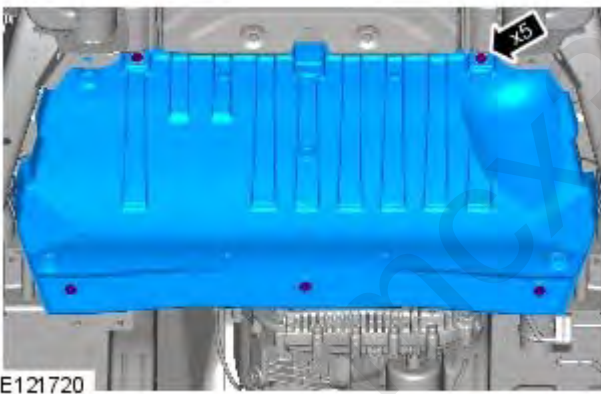
2. TORQUE: 175 Nm



3. TORQUE: 10 Nm



4. TORQUE: 10 Nm



5. Lower the vehicle.

Full Frame and Body Mounting - Rear Crossmember

Removal and Installation

Removal

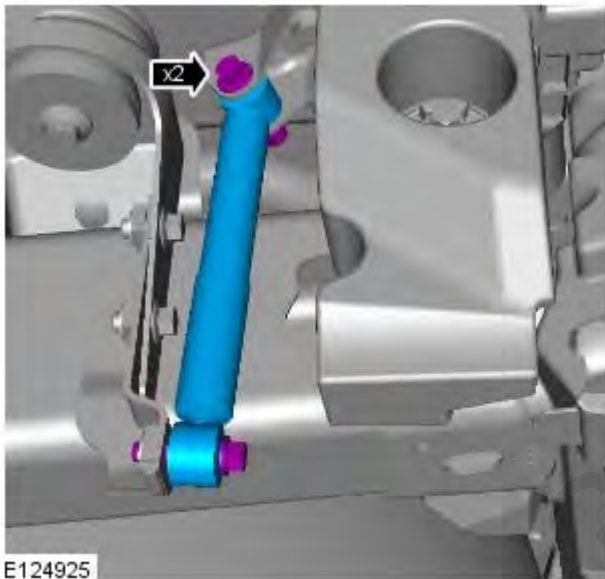
1.  **WARNING:** Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

2. Disconnect both battery cables.
For additional information, refer to: Specifications (414-00 Charging System - General Information, Specifications).
3. Remove the rear bumper cover.
For additional information, refer to: [Rear Bumper Cover](#) (501-19 Bumpers, Removal and Installation).
4. Remove the spare wheel and tire.

5. **NOTE:** Left-hand shown, right-hand similar.

Remove both rear body mount dampers.

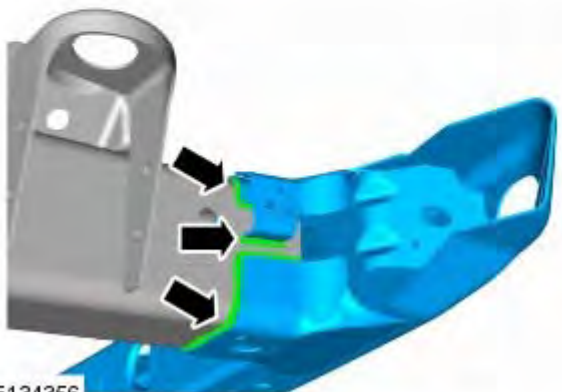
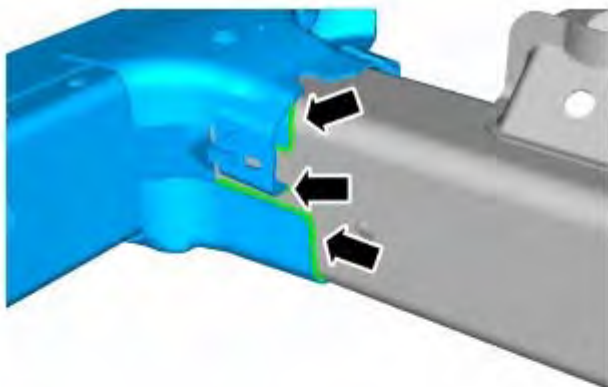


6. Remove the rear bumper fixings.

7. NOTE: Right-hand shown, left-hand similar.

Remove the rear crossmember.

Item	Description
-	Mig weld. (R/H is symmetrically opposite to L/H).



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8. For additional information:

- Welding.
For additional information, refer to: [Body Repairs](#) (501-25A Body Repairs - General Information, Description and Operation).
- Corrosion protection.
For additional information, refer to: [Corrosion Protection](#) (501-25B Body Repairs - Corrosion Protection, Description and Operation).
- Tolerance checks.
For additional information, refer to: [Body and Frame](#) (501-26 Body Repairs - Vehicle Specific Information and Tolerance Checks, Description and Operation).

Installation

1. To install, reverse the removal procedure.

- Tighten both rear body damper(s) retaining bolts to 45Nm.

Full Frame and Body Mounting - BodyV6 4.0L Petrol/V8 5.0L Petrol

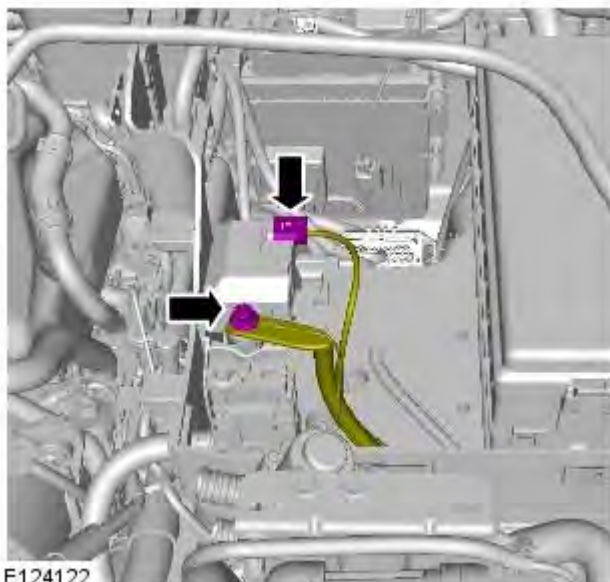
Removal and Installation

Removal

- NOTE: Some variation in the illustrations may occur, but the essential information is always correct.
- NOTE: Some illustrations may show the engine removed for clarity.

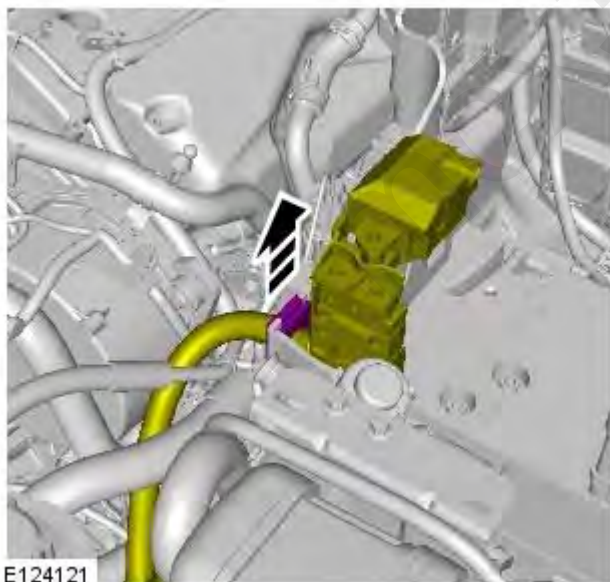
All vehicles

1. Remove the battery for access.
For additional information, refer to: Battery (414-01, Removal and Installation).
- 2.



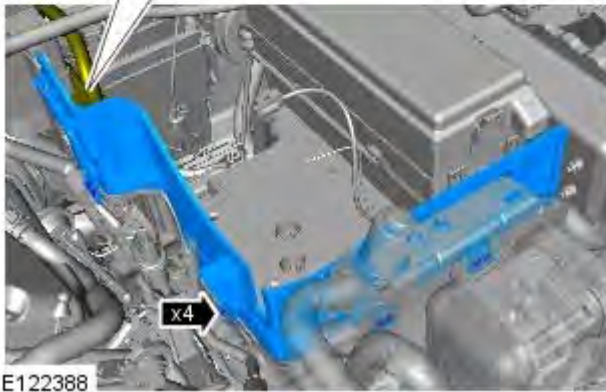
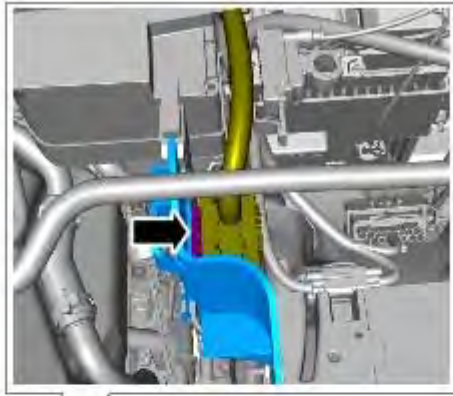
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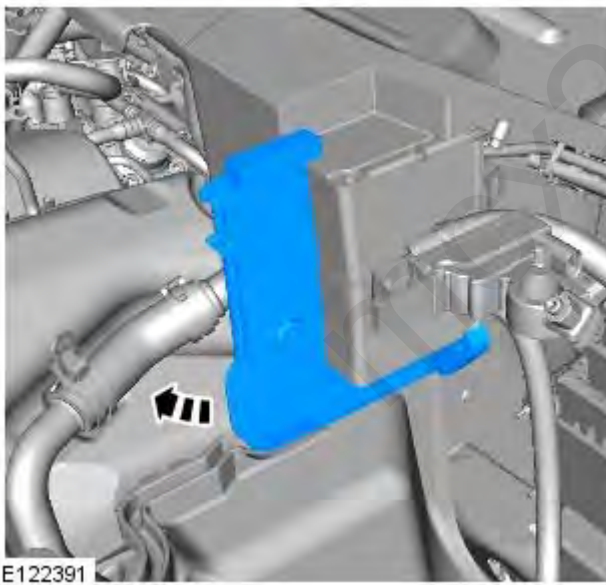


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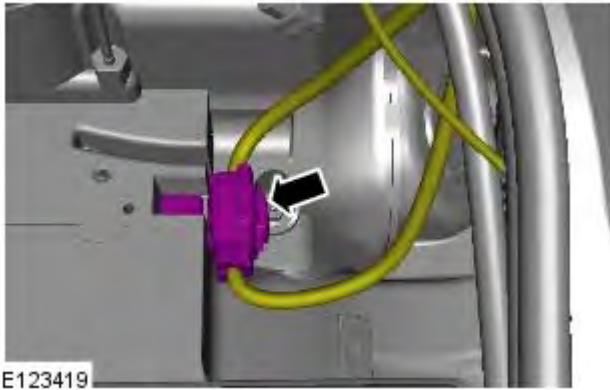
4. NOTE: RHD illustration shown, LHD is similar.



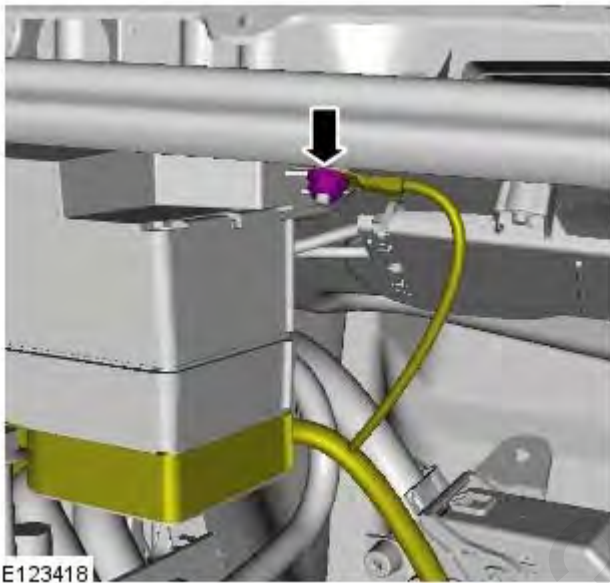
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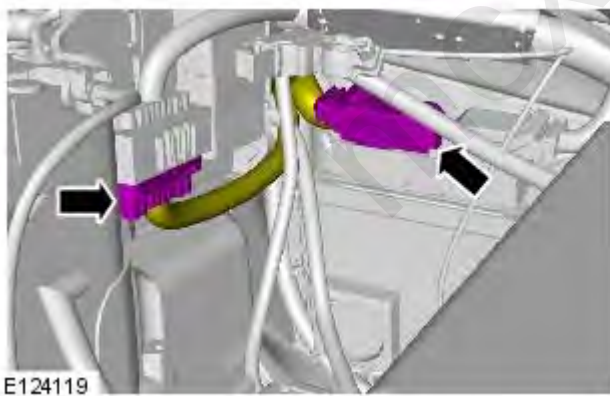
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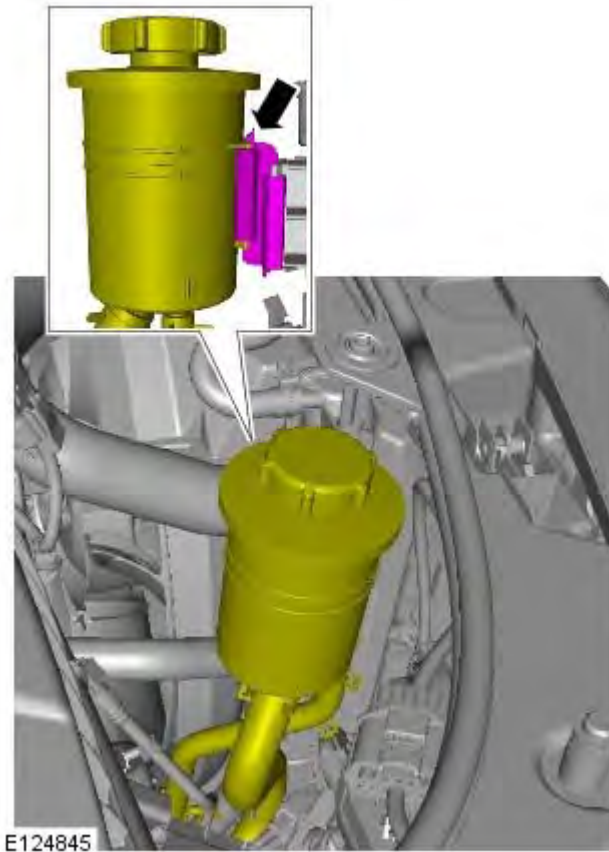
8.



9. For additional information, refer to: Air Cleaner LH (303-12, Removal and Installation).
10. For additional information, refer to: Air Cleaner RH (303-12, Removal and Installation).
11. For additional information, refer to: Cooling System Draining, Filling and Bleeding (303-03, General Procedures).
12. For additional information, refer to: Air Conditioning (A/C) System Recovery, Evacuation and Charging (412-00, General Procedures).
13. For additional information, refer to: Front Bumper Cover (501-19, Removal and Installation).
14. For additional information, refer to: Rear Bumper Cover (501-19, Removal and Installation).

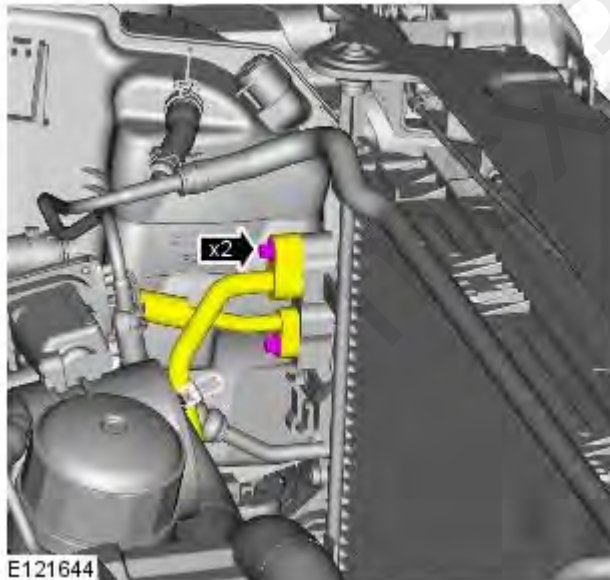
Vehicles with active damping

15.



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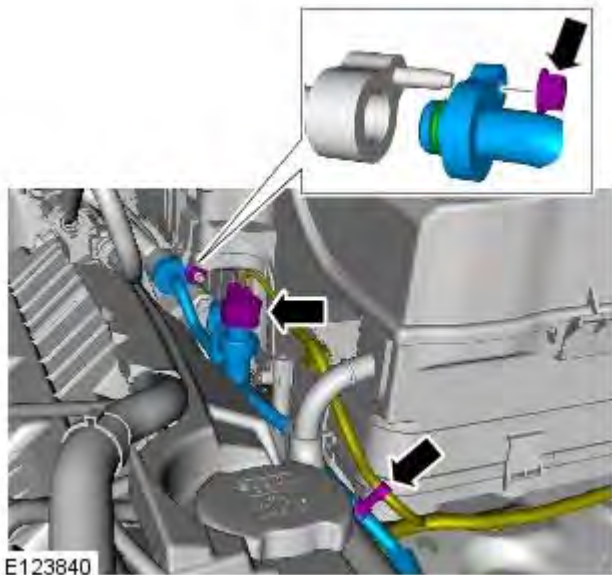
All vehicles



E121644

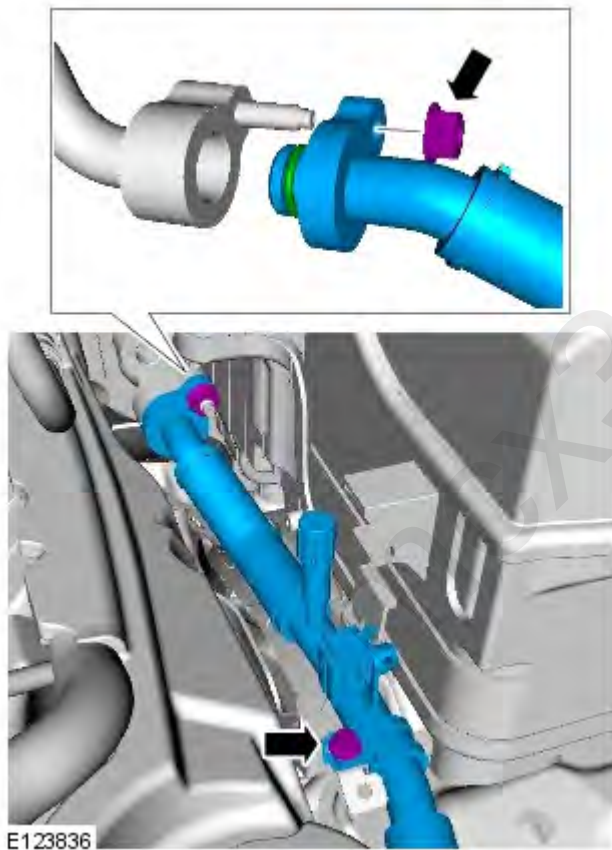
16.  **CAUTION:** Make sure that all openings are sealed.
Use new blanking caps.

- Remove and discard the 2 O-ring seals.



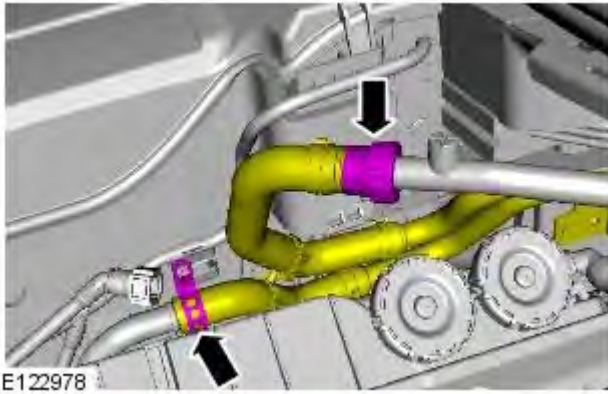
17.  **CAUTION:** Make sure that all openings are sealed. Use new blanking caps.

- Discard the O-ring seal.

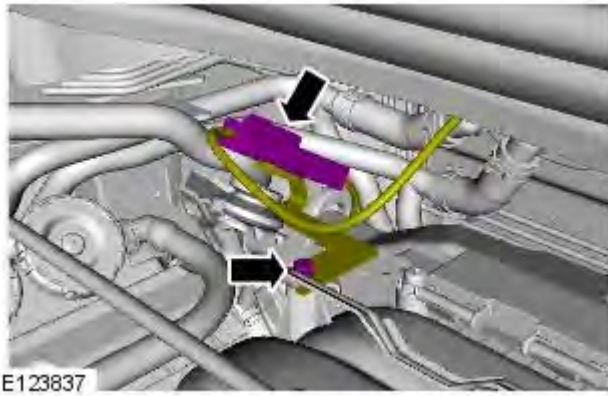


18.  **CAUTION:** Make sure that all openings are sealed. Use new blanking caps.

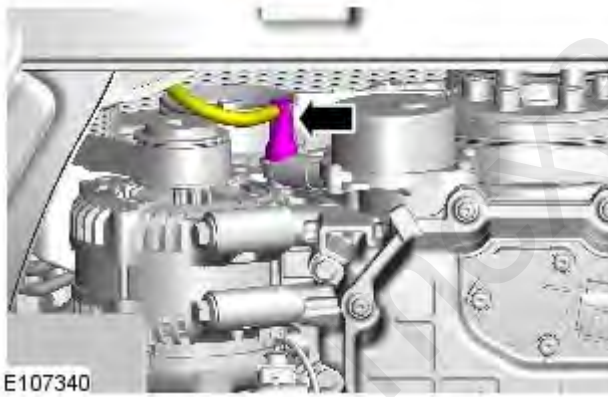
- Discard the O-ring seal.



19.  **WARNING:** Be prepared to collect escaping fluid.

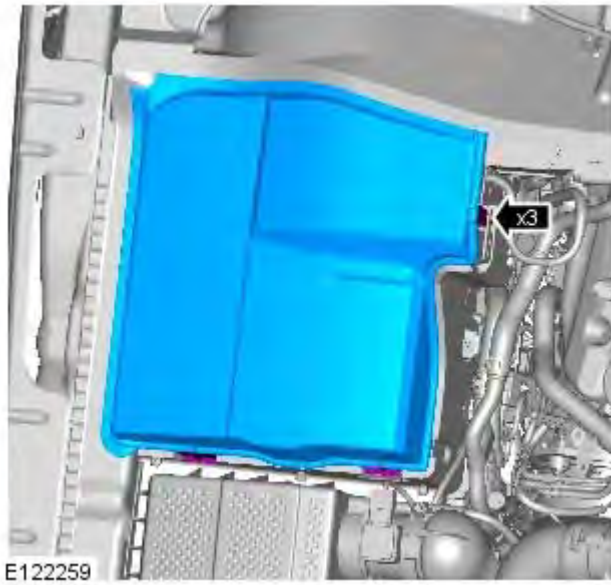


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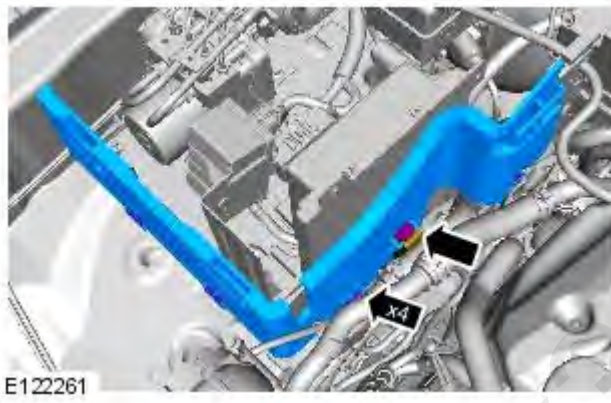


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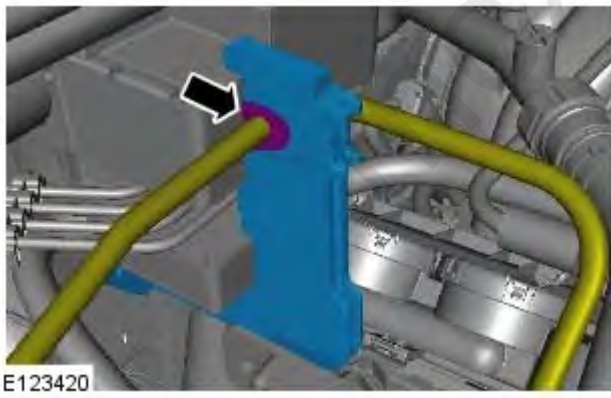
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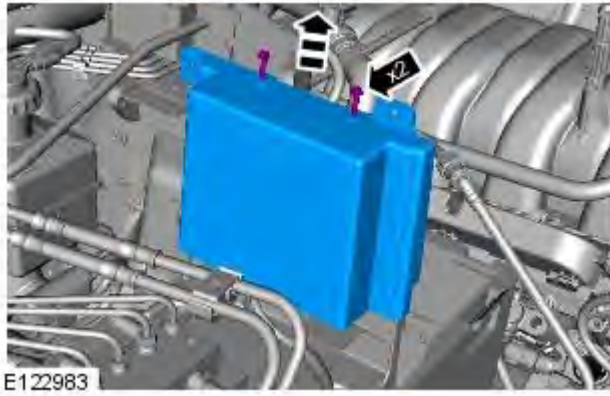
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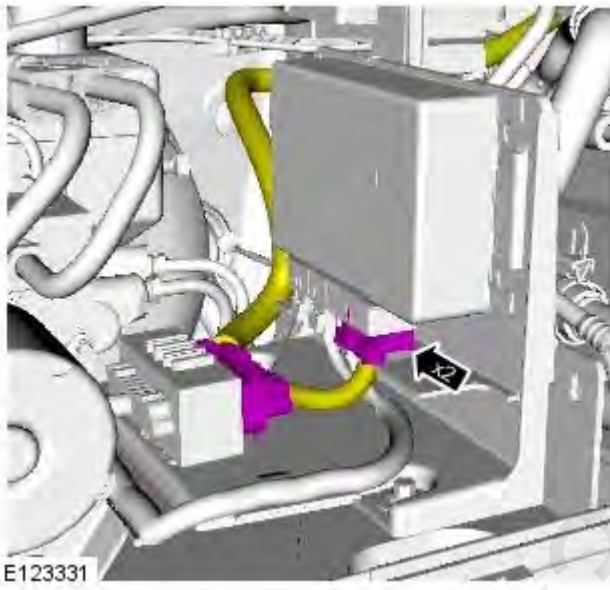
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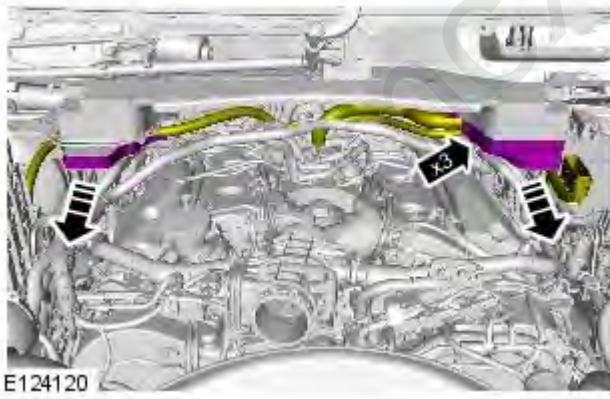
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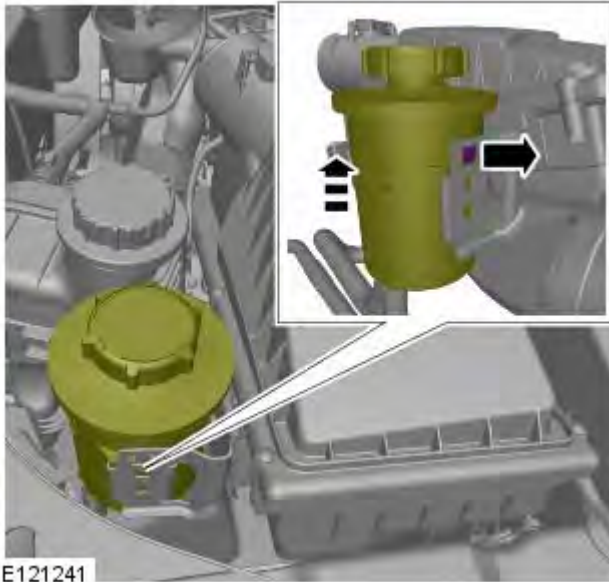
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27.



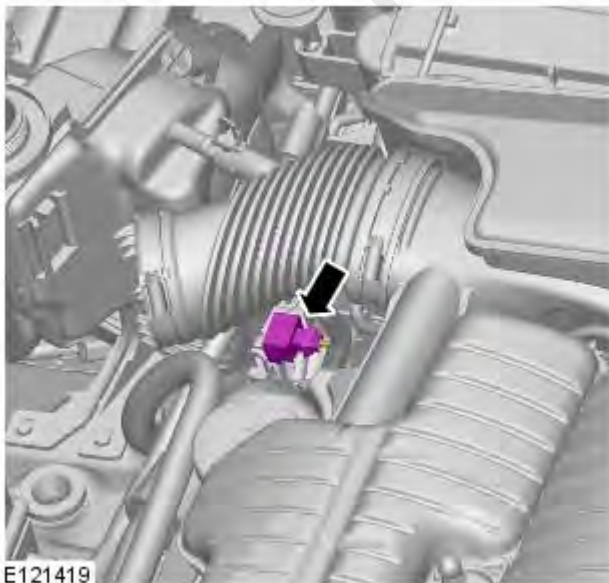
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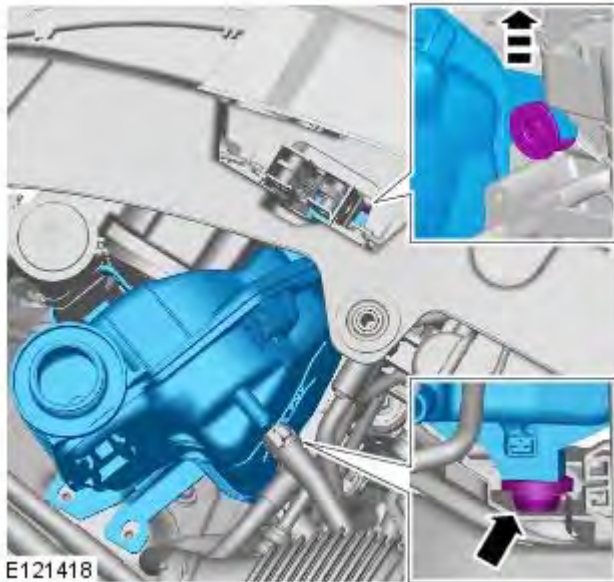


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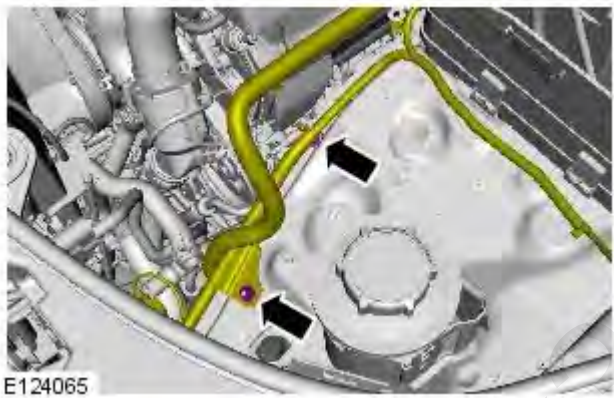


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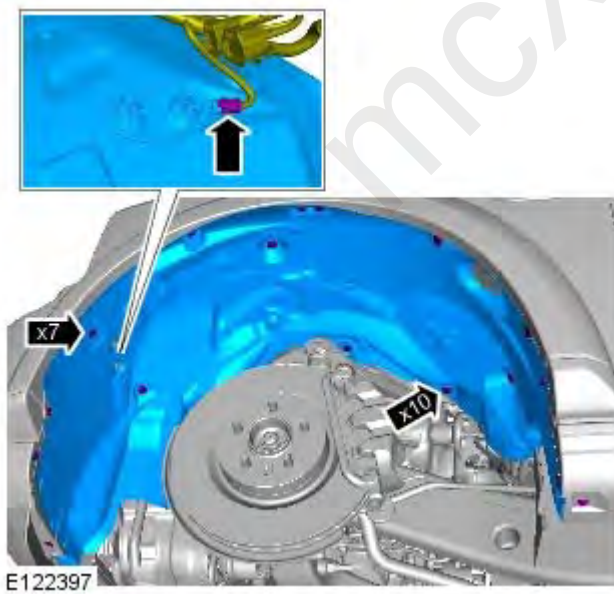




31.  CAUTION: Be prepared to collect escaping coolant.

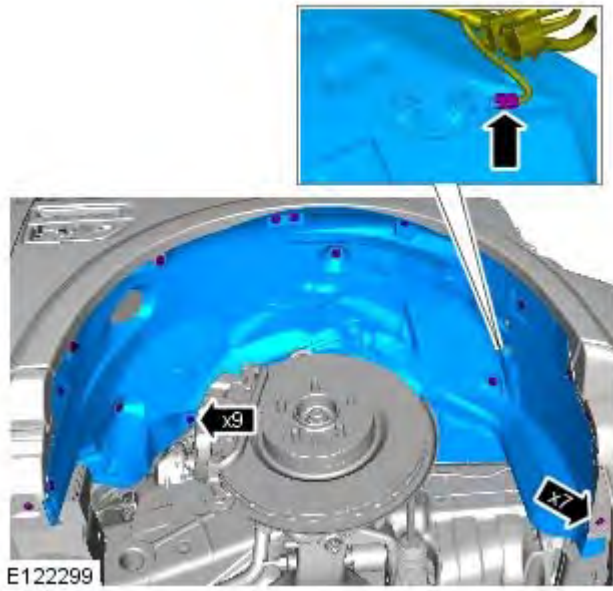


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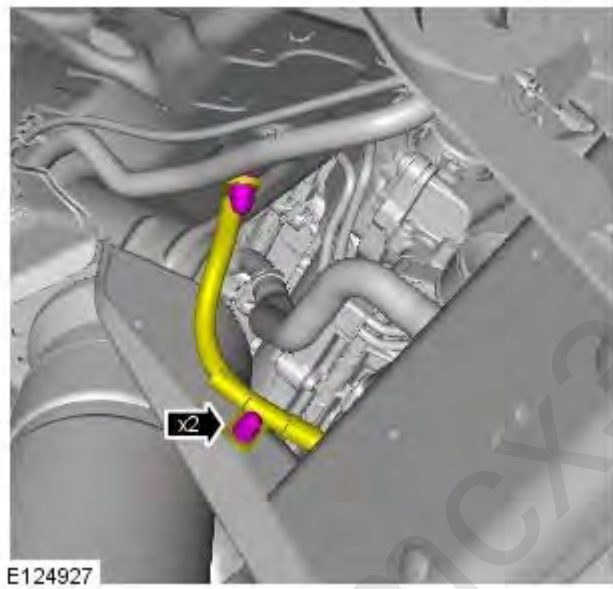


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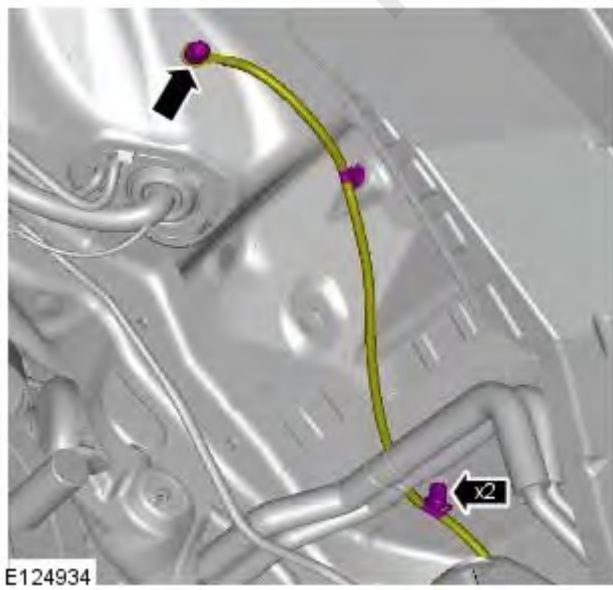
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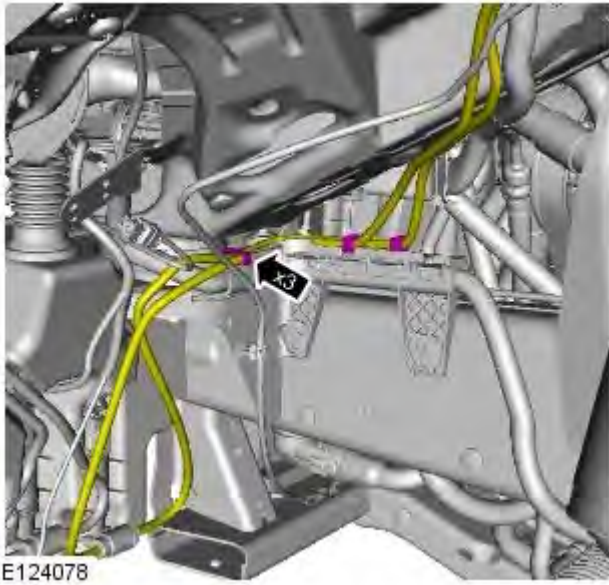
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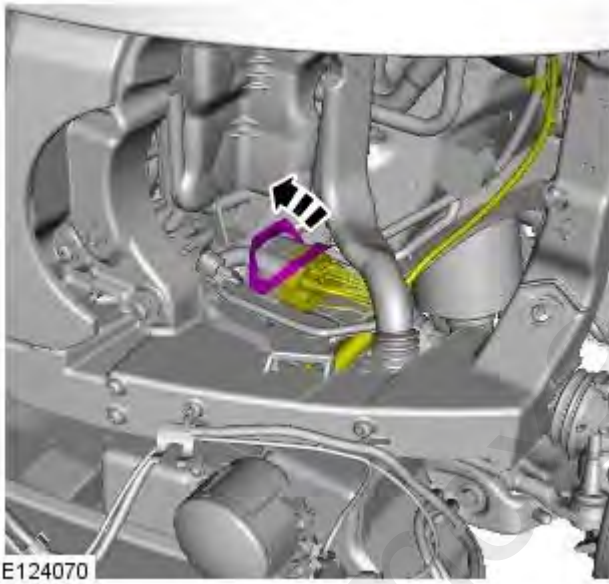
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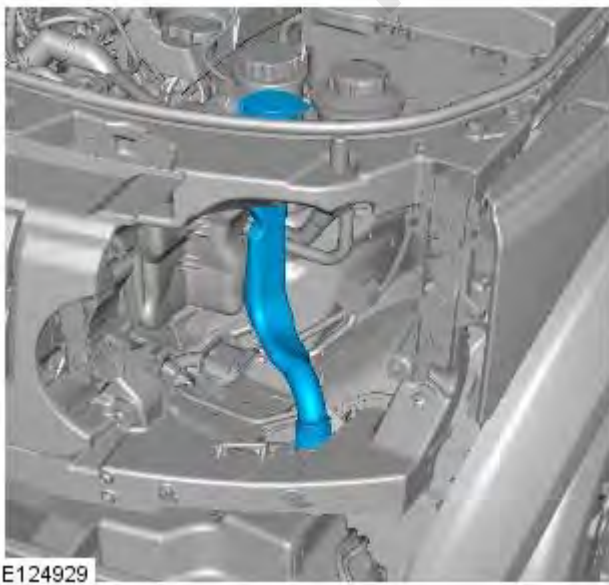
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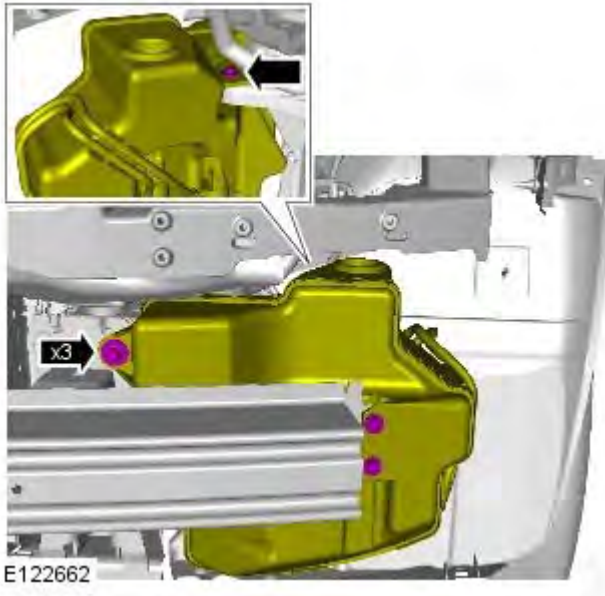
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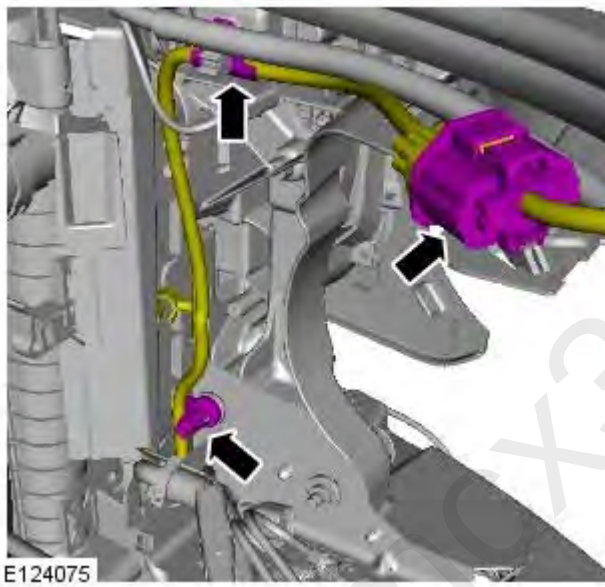
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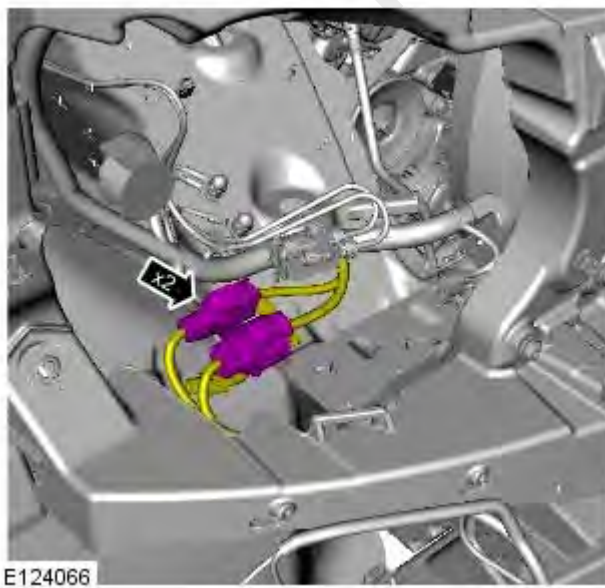
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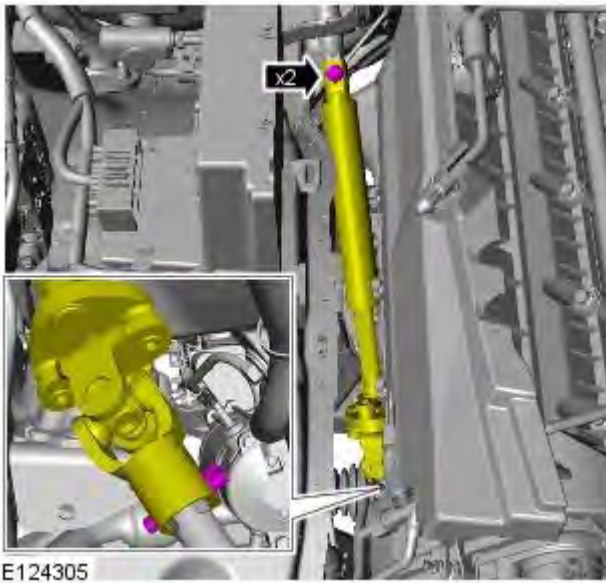
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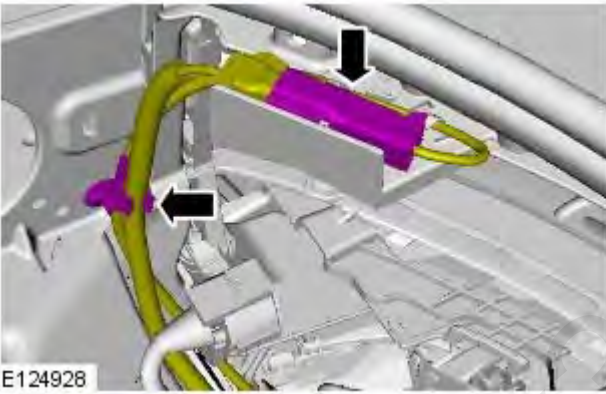
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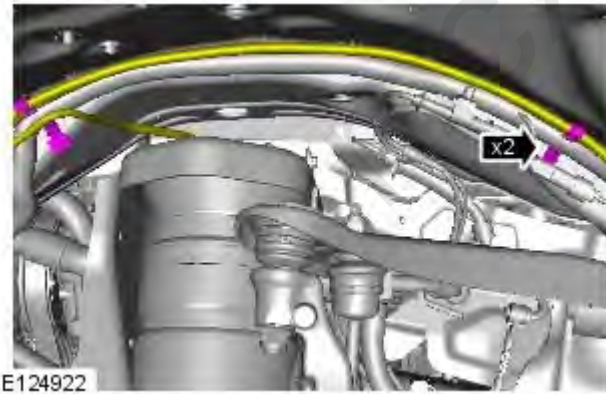
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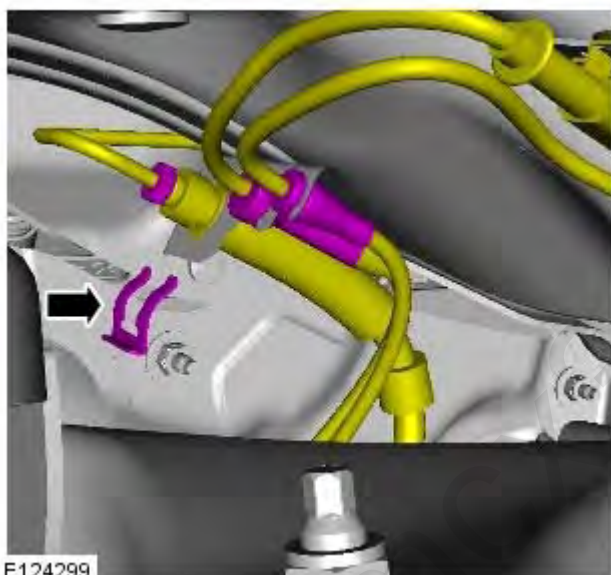
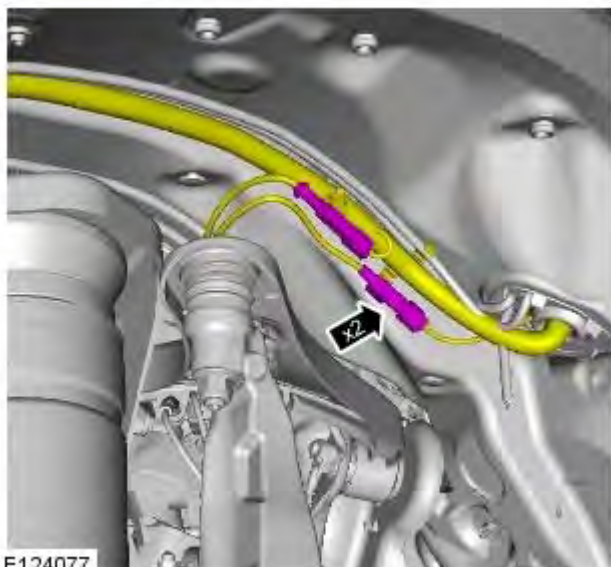
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45.

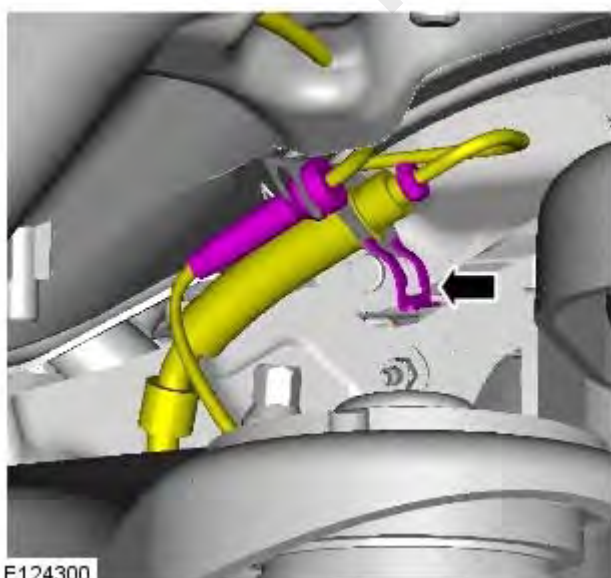


46.



47.  **CAUTION:** Before disconnecting or removing the components, make sure the area around the joint faces and connections are clean. Plug open connections to prevent contamination.

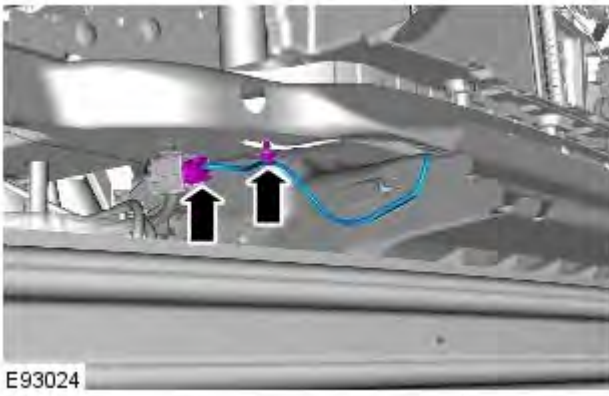
- Position an absorbent cloth to collect fluid spillage.
- Disconnect the line union.
- Remove the clip.



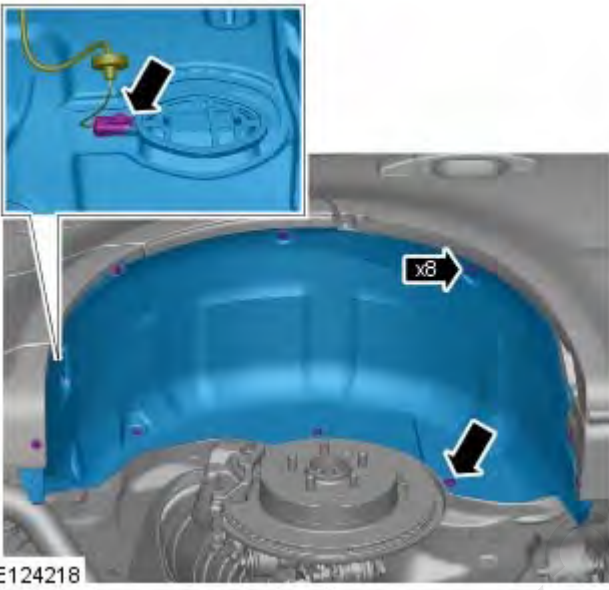
48.  **CAUTION:** Before disconnecting or removing the components, make sure the area around the joint faces and connections are clean. Plug open connections to prevent contamination.

- Position an absorbent cloth to collect fluid spillage.
- Disconnect the line union.
- Remove the clip.

49.

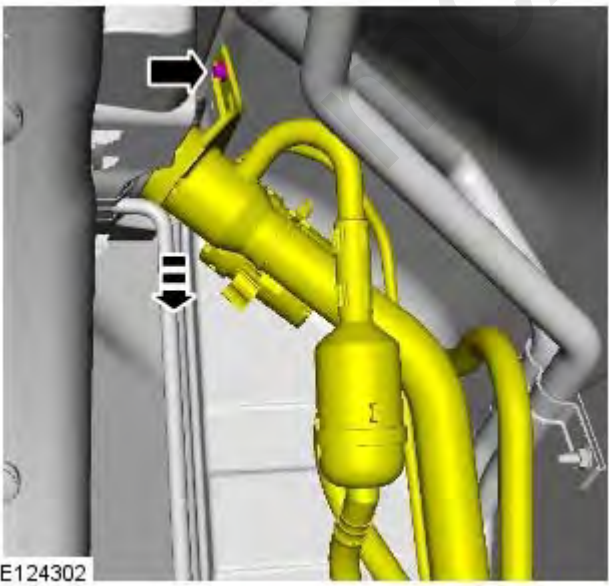


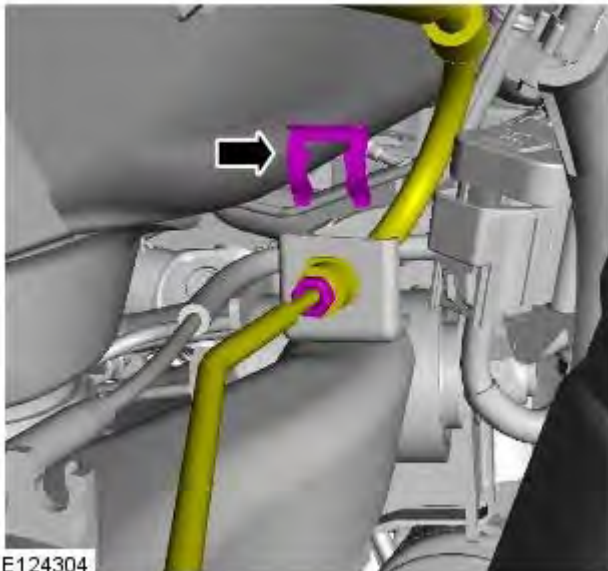
50.



51. Remove the fuel filler cap.

52.

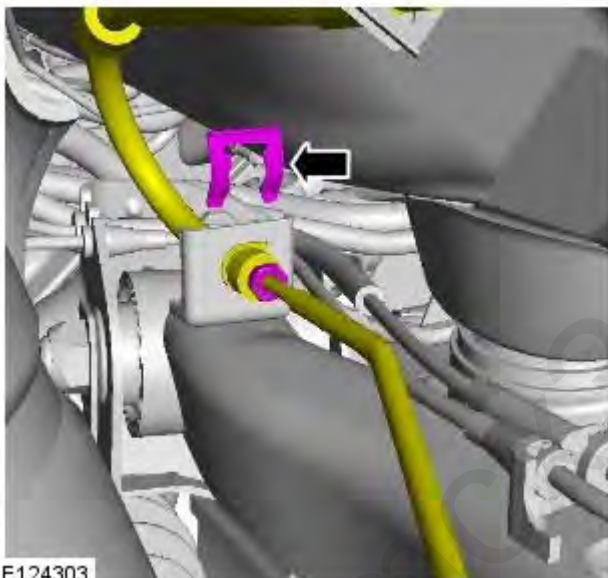




E124304

53.  **CAUTION:** Before disconnecting or removing the components, make sure the area around the joint faces and connections are clean. Plug open connections to prevent contamination.

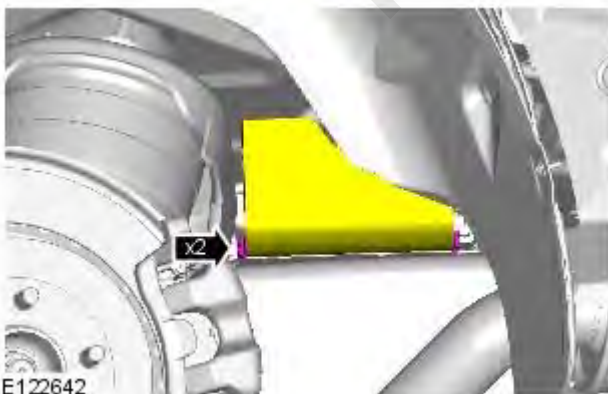
- Position an absorbent cloth to collect fluid spillage.
- Disconnect the line union.
- Remove the clip.



E124303

54.  **CAUTION:** Before disconnecting or removing the components, make sure the area around the joint faces and connections are clean. Plug open connections to prevent contamination.

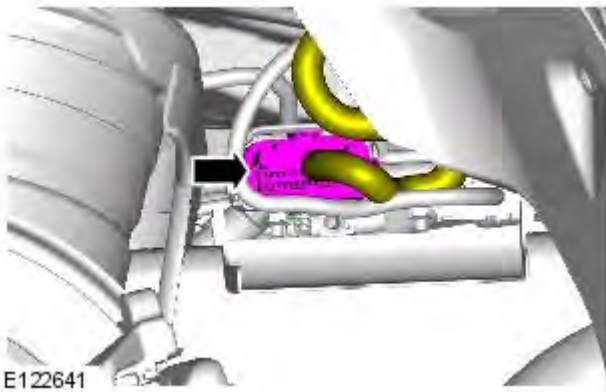
- Position an absorbent cloth to collect fluid spillage.
- Disconnect the line union.
- Remove the clip.



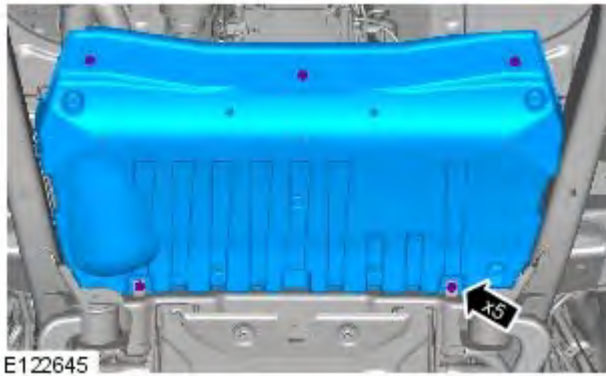
E122642

55.

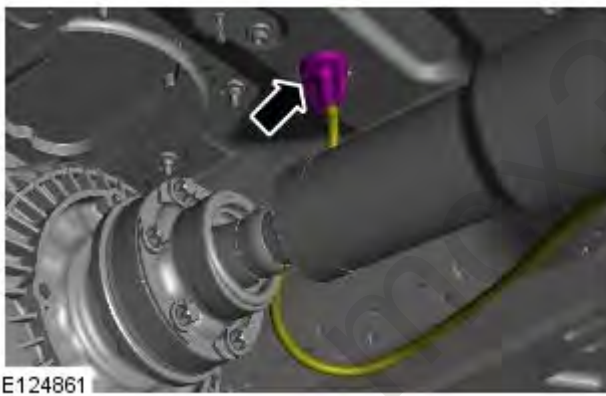
56.



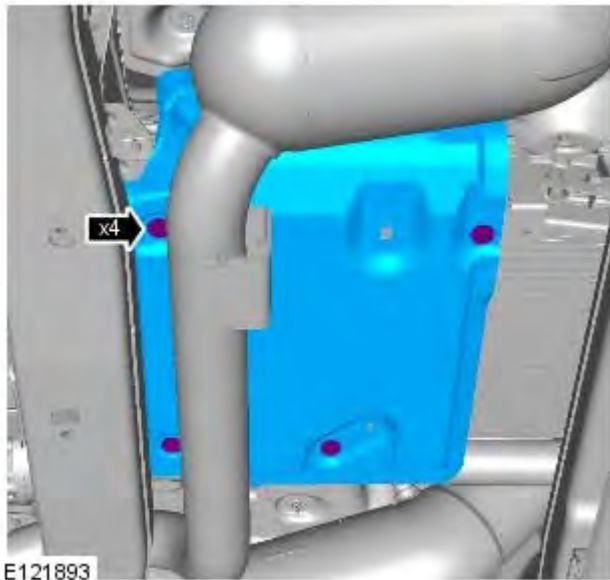
57.



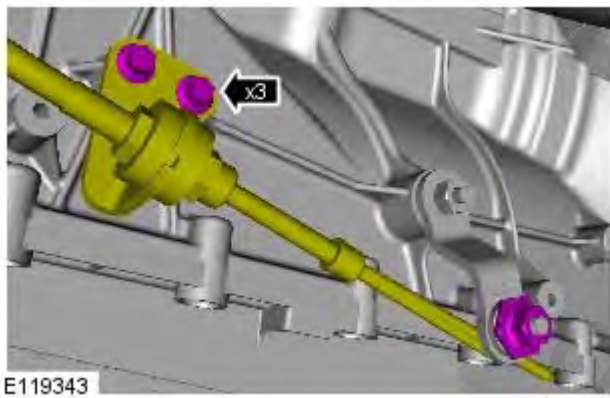
58.  CAUTION: Note the fitted position of the seal.



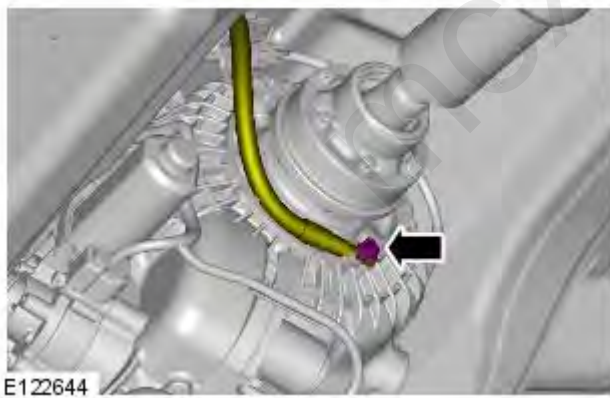
59.



60.

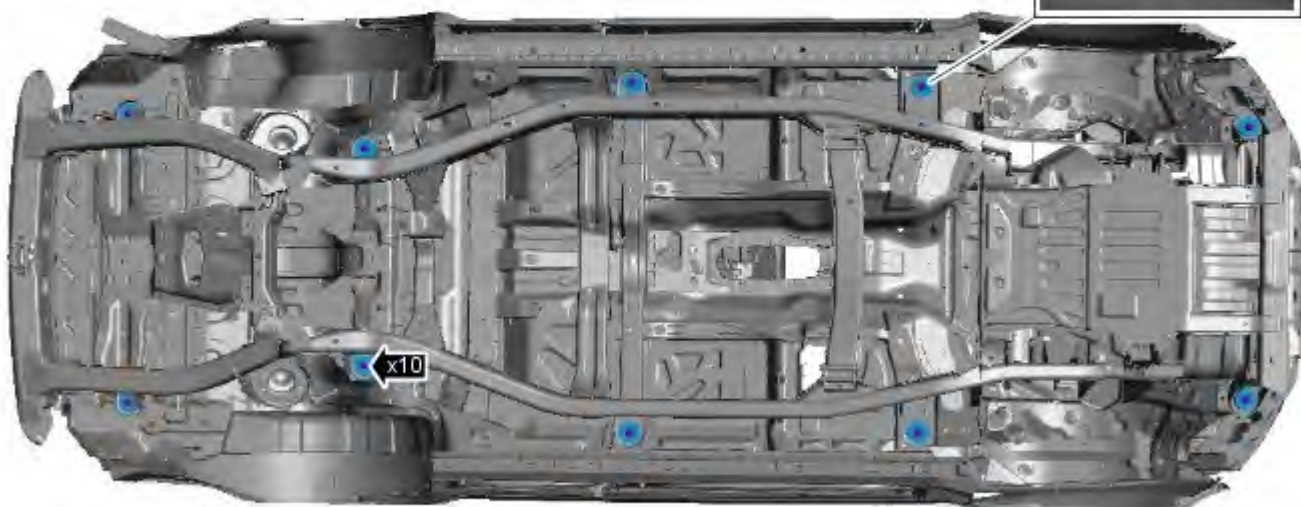


61.



62. Remove and discard the 10 body mount bolts.

- Remove the 10 spacing washers.



E124859

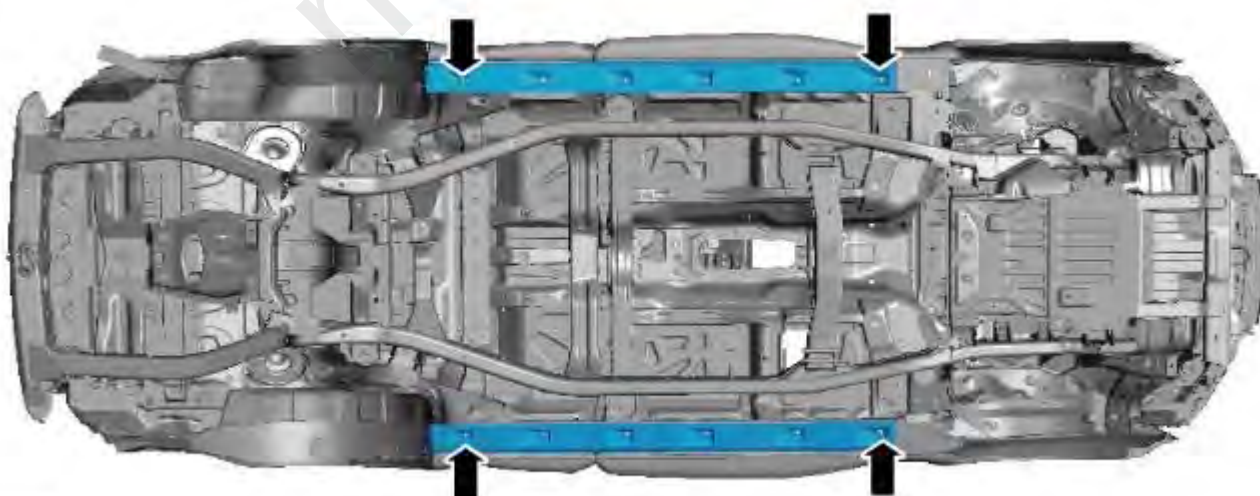
63. Carefully lower the vehicle and support the chassis with axle stands.

64.  **CAUTION:** To prevent the body becoming unstable when raised from the integrated body frame, install the vehicle tie down straps.

- **NOTE:** Note the fitted position of the body mounts.

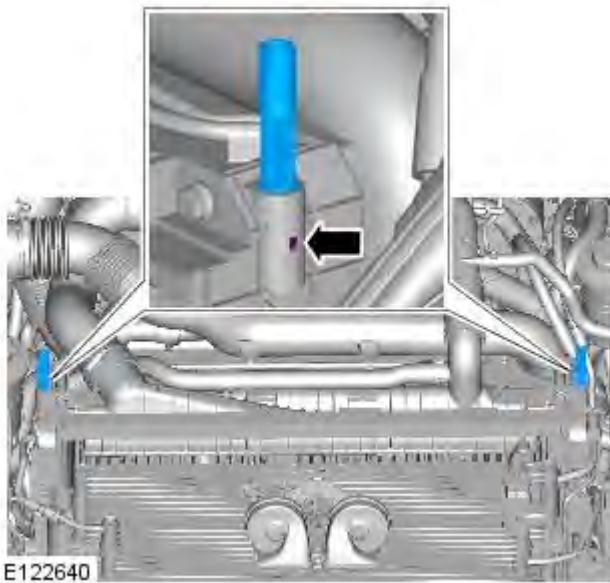
Using an assistant raise and support the body.

- Remove the body mounts.



E124860

65.



Installation

All vehicles

1. CAUTIONS:



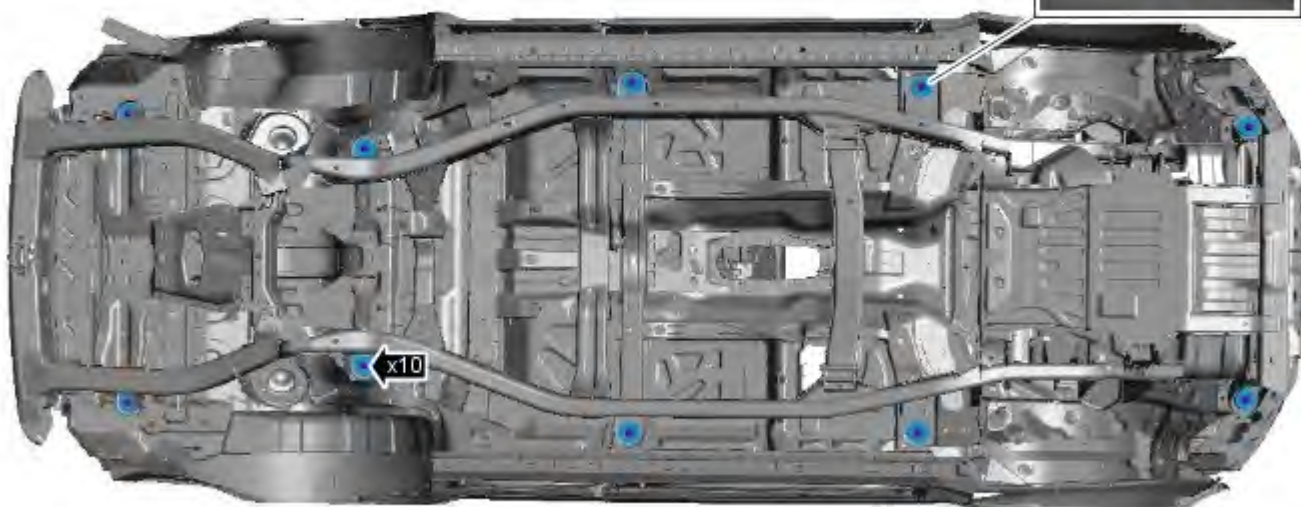
Make sure that new bolts are installed.



Make sure that all components are free and do not get caught up whilst lowering the body onto the integrated body frame.

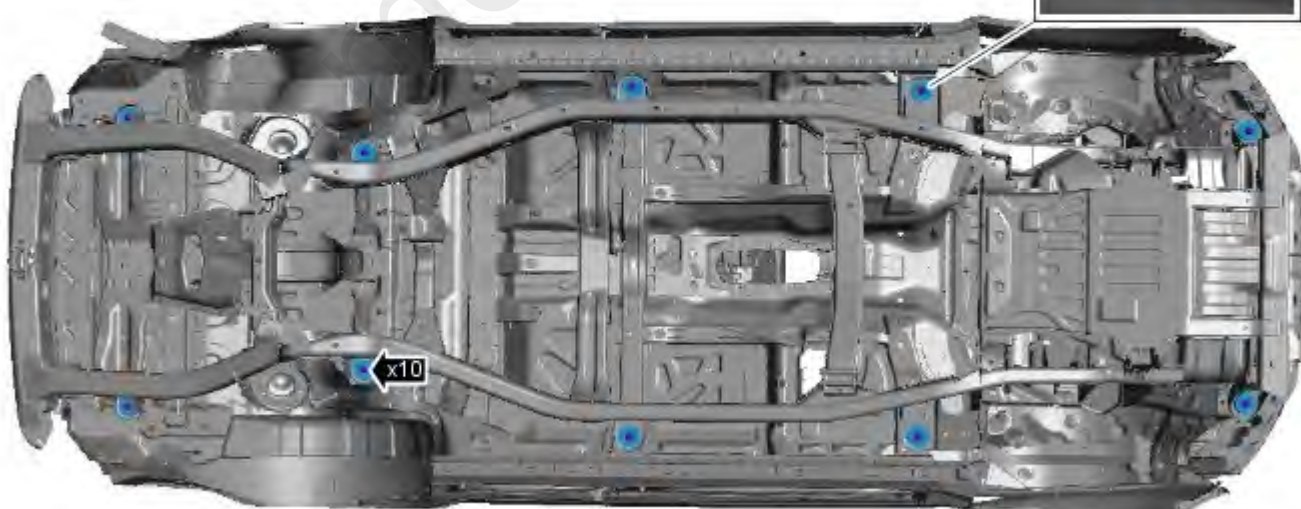
Using an assistant install the body to the integrated body frame.

- Install the body mounts.
- With assistance align the body and integrated body frame mounts.
- Install the bolts, but do not tighten fully at this stage.



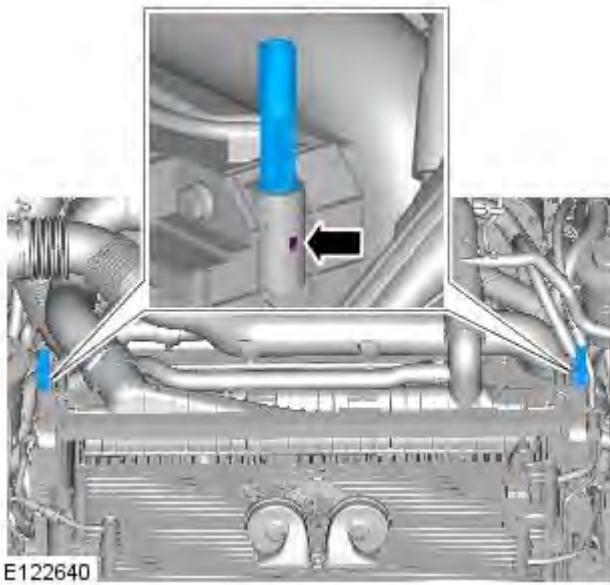
E124859

2. Remove the tie down straps securing the body.
3. TORQUE: 133 Nm

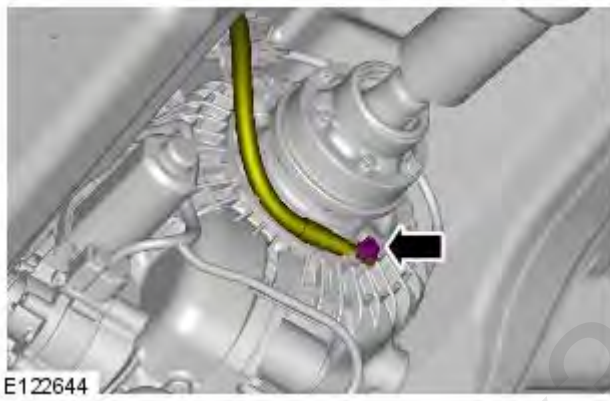


E124859

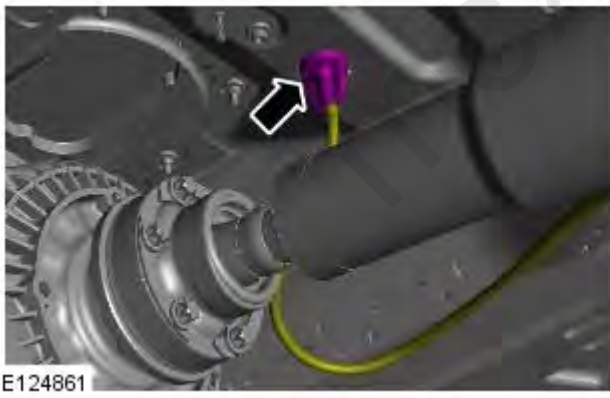
4.



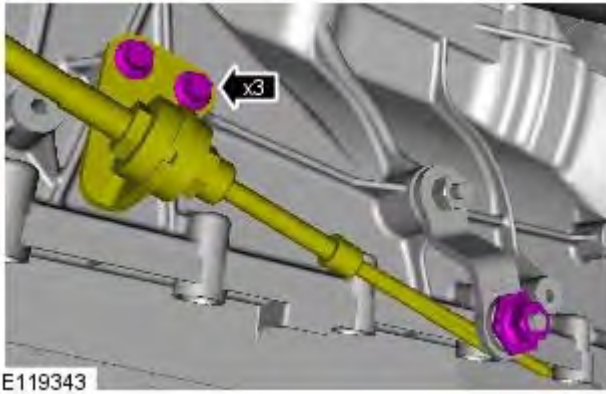
5. TORQUE: 25 Nm



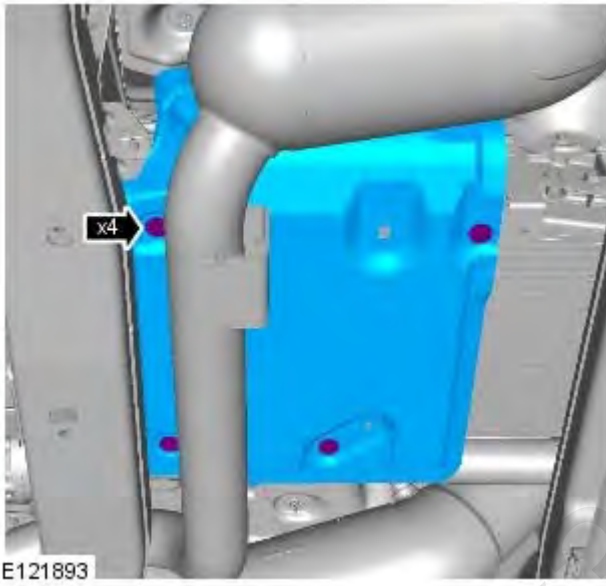
6.



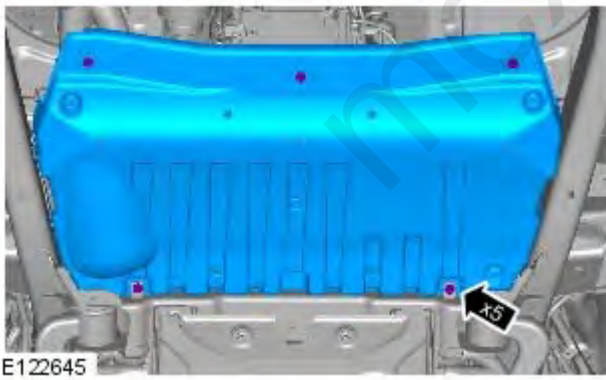
7.



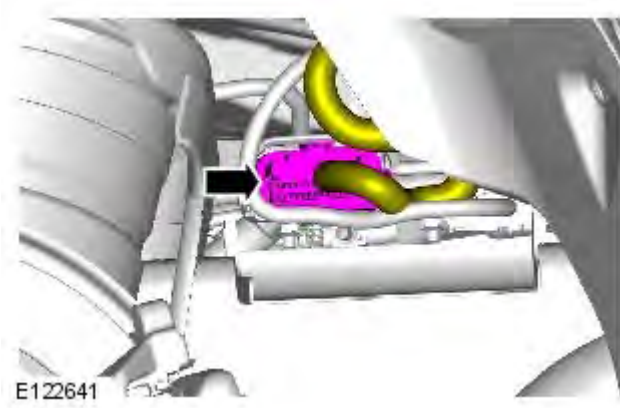
8. TORQUE: 12 Nm



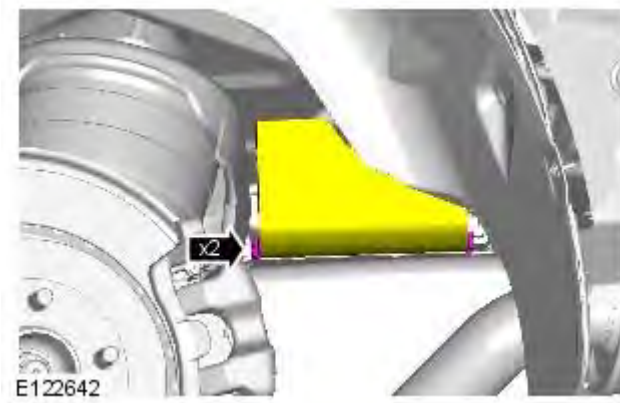
9. TORQUE: 12 Nm



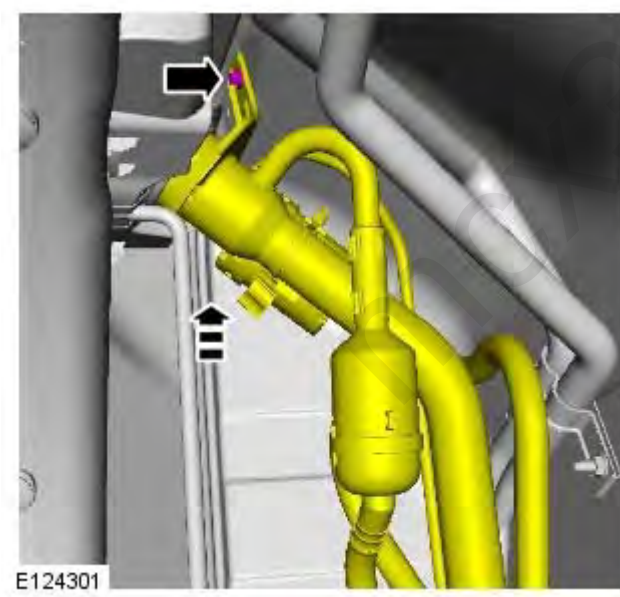
10.



11.

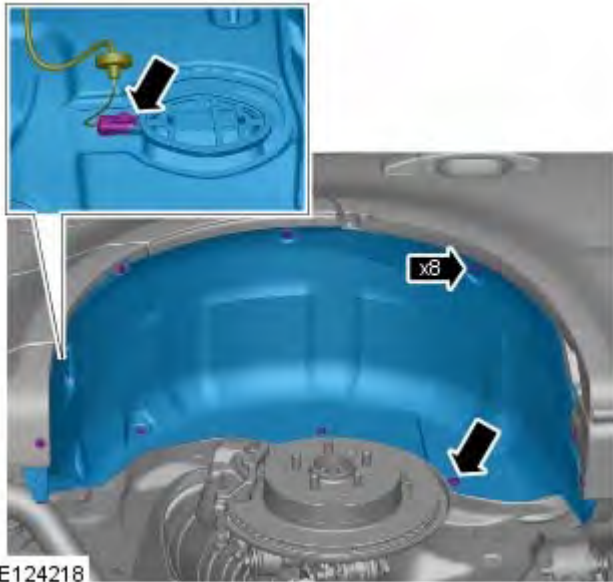


12. TORQUE: 12 Nm



13. Install the fuel filler cap.

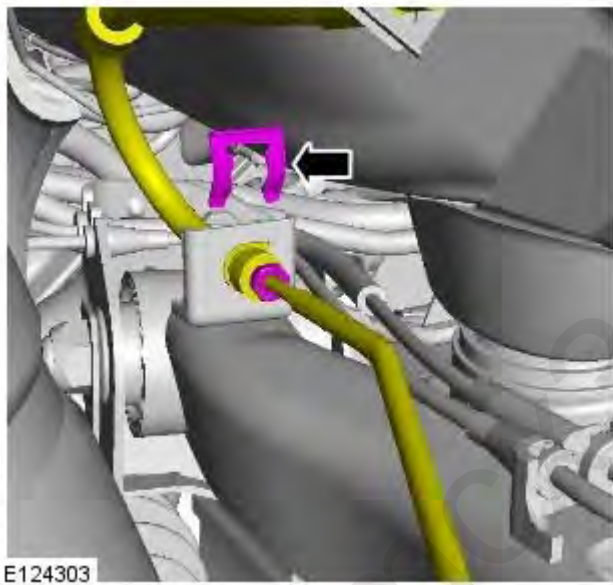
14.



15. NOTE: Remove and discard the blanking caps.

TORQUE: 16 Nm

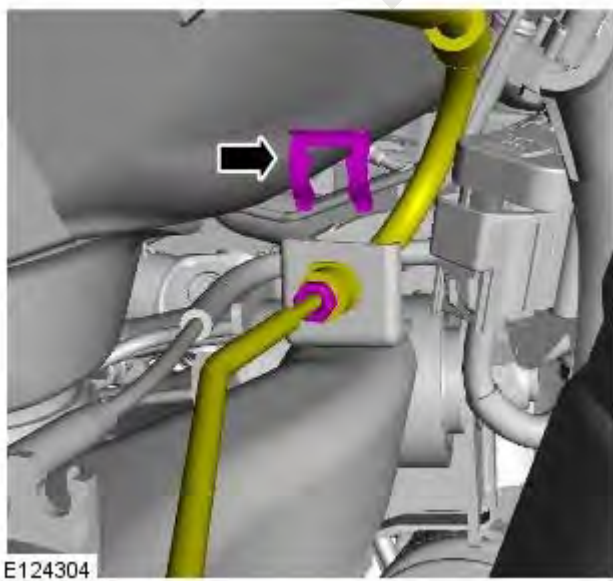
- Clean the component mating faces.
- Secure the clip.

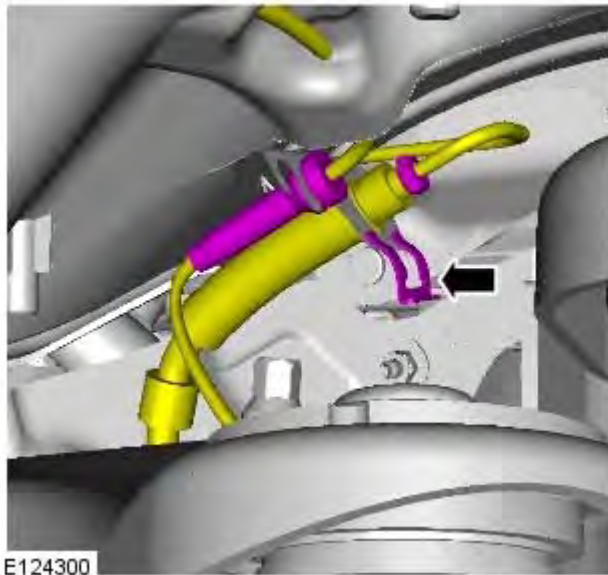


16. NOTE: Remove and discard the blanking caps.

TORQUE: 16 Nm

- Clean the component mating faces.
- Secure the clip.



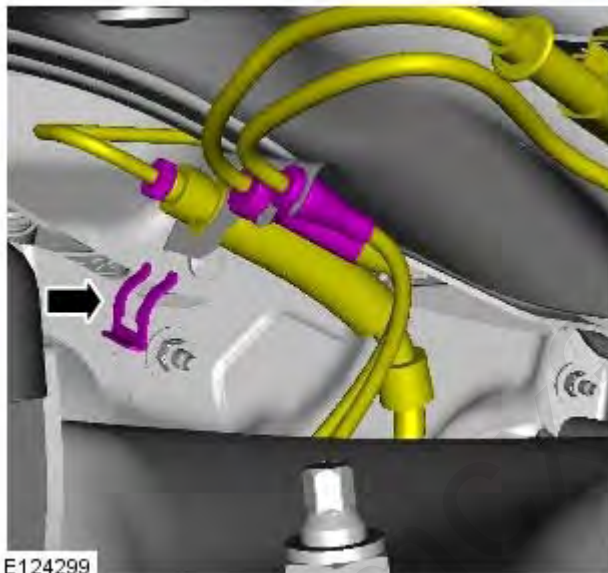


E124300

17. NOTE: Remove and discard the blanking caps.

TORQUE: 16 Nm

- Clean the component mating faces.
- Secure the clip.

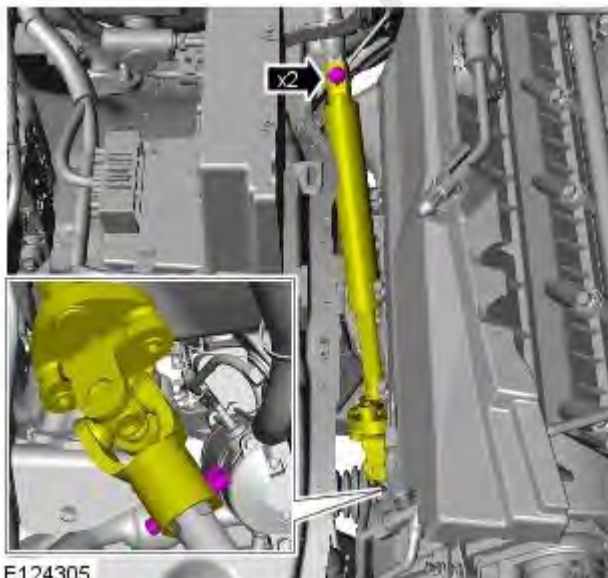


E124299

18. NOTE: Remove and discard the blanking caps.

TORQUE: 16 Nm

- Clean the component mating faces.
- Secure the clip.

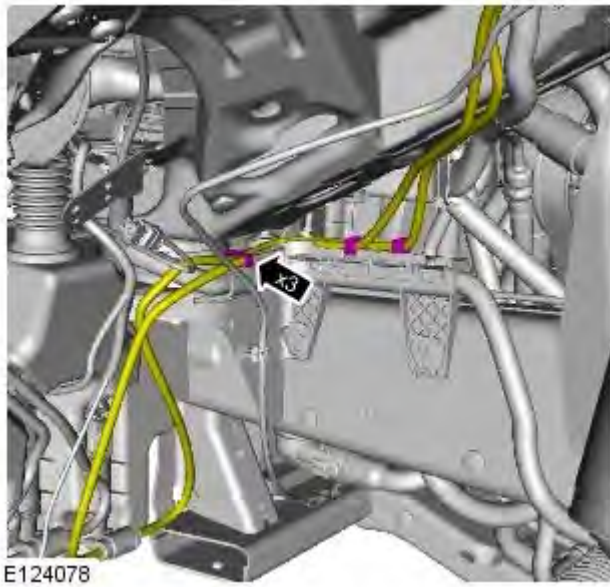


E124305

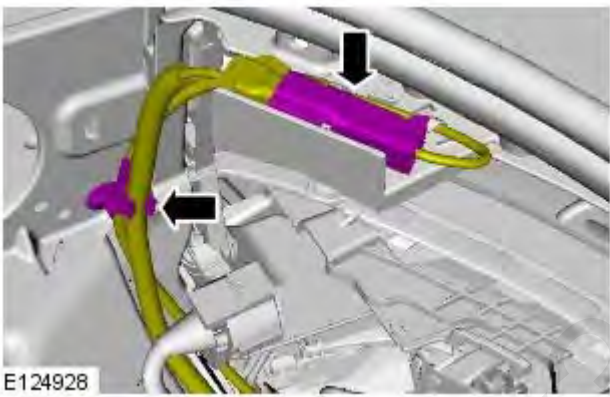
19.  WARNING: Make sure that a new bolt is installed.

TORQUE: 25 Nm

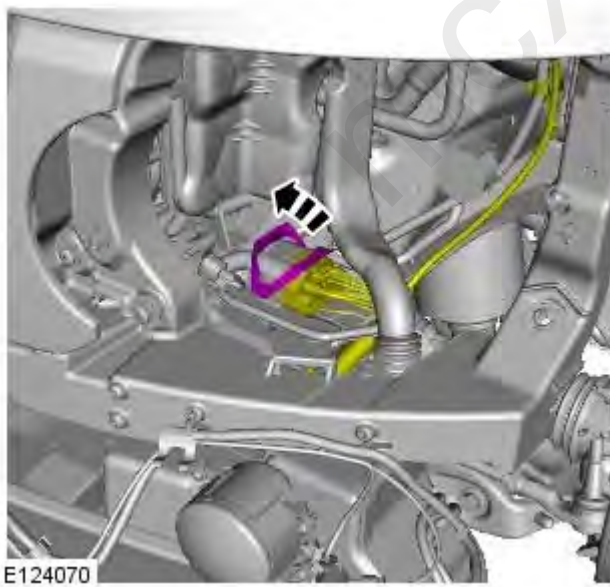
20.



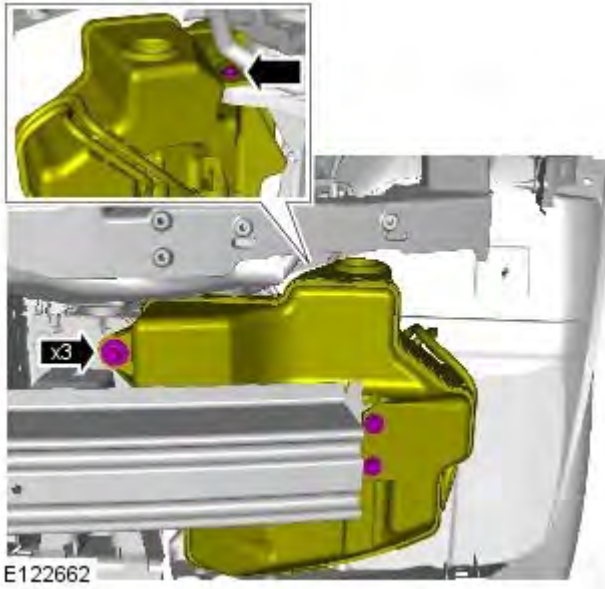
21.



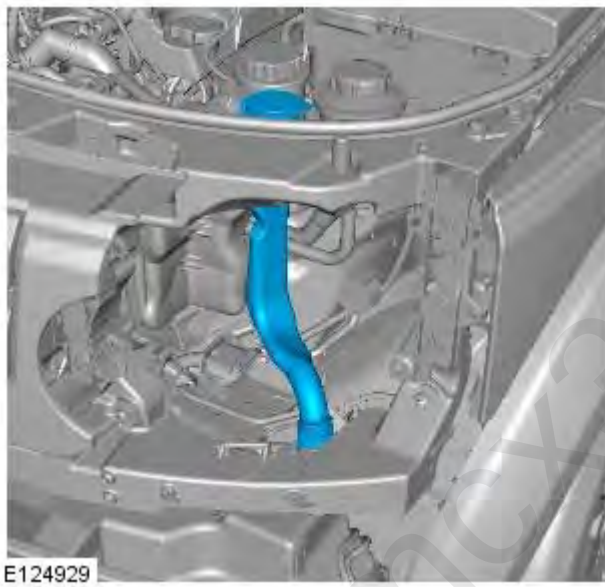
22.



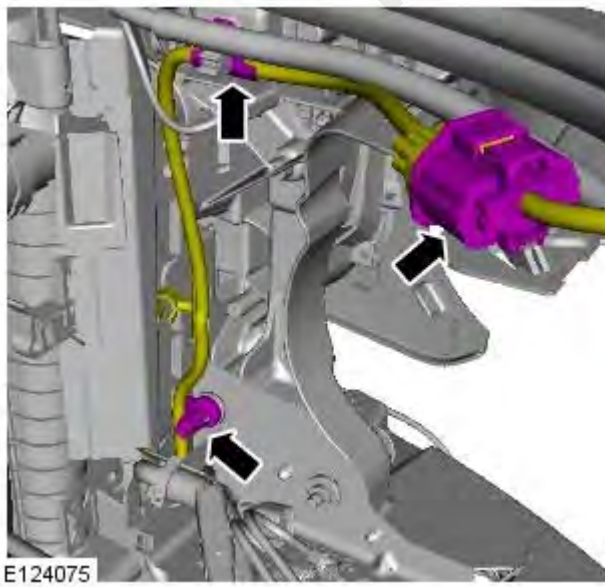
23. TORQUE: 12 Nm



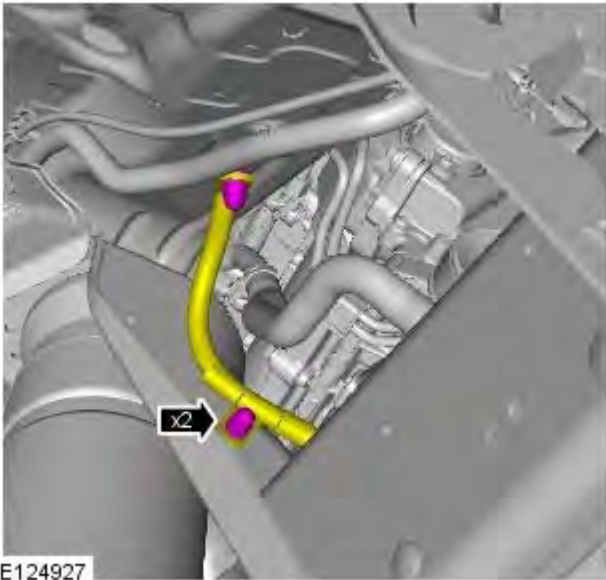
24.



25.

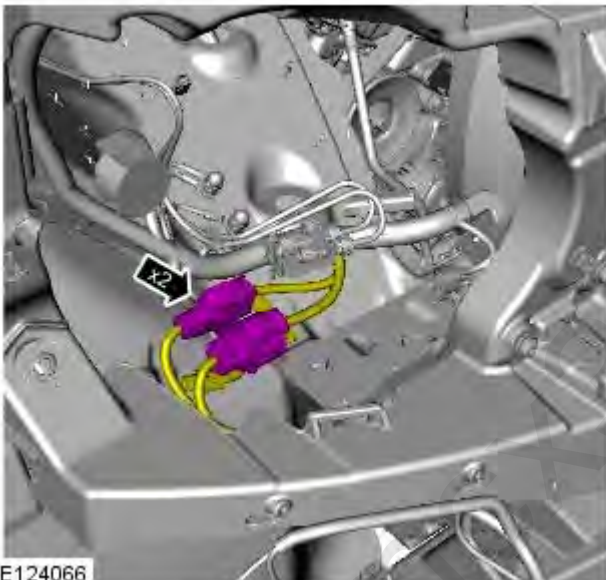


26. TORQUE: 20 Nm



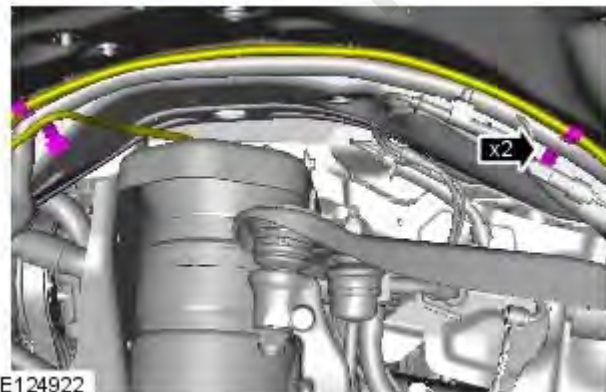
E124927

27.



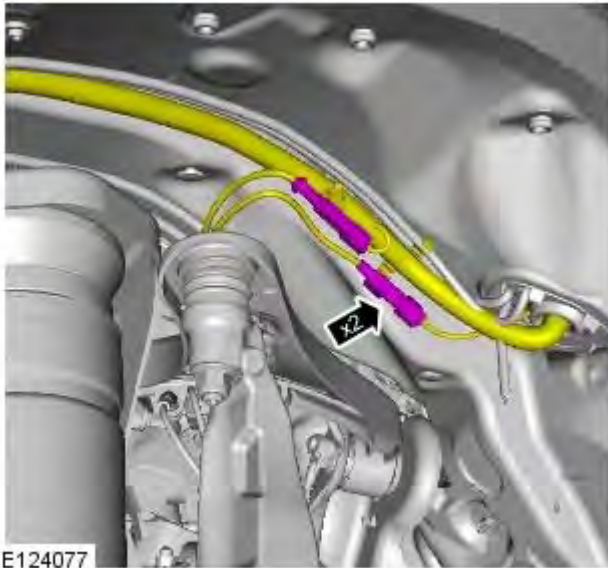
E124066

28.

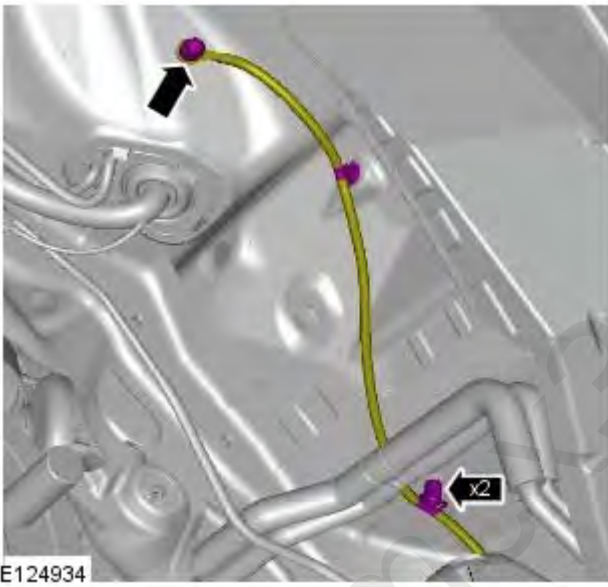


E124922

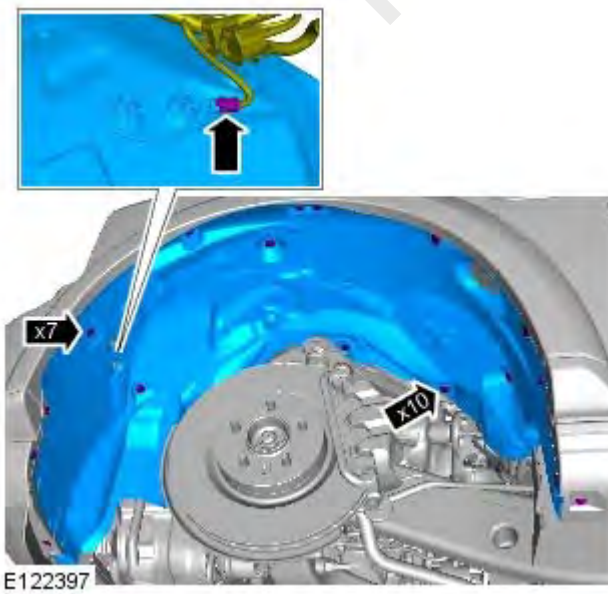
29.



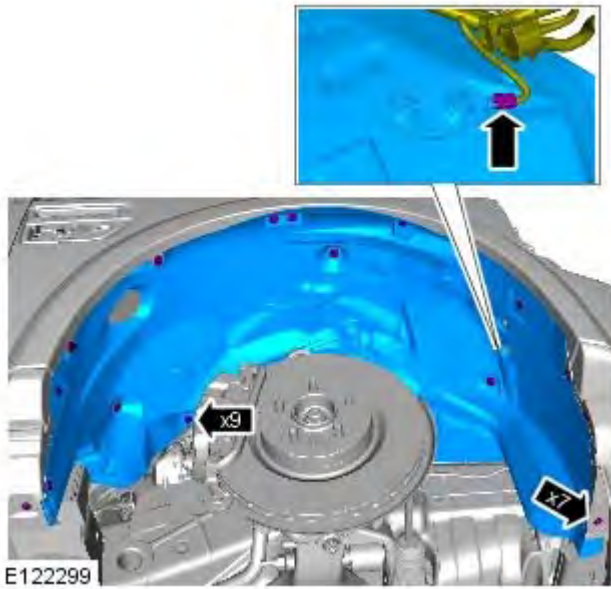
30. TORQUE: 20 Nm



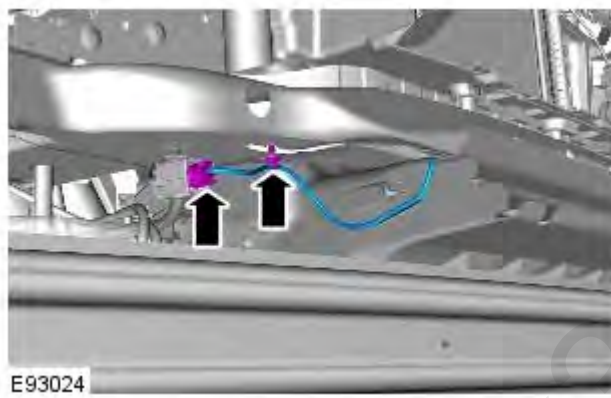
31.



32.

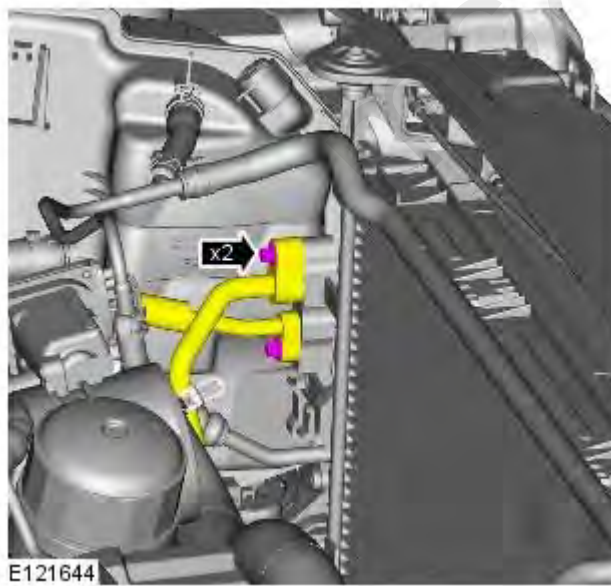


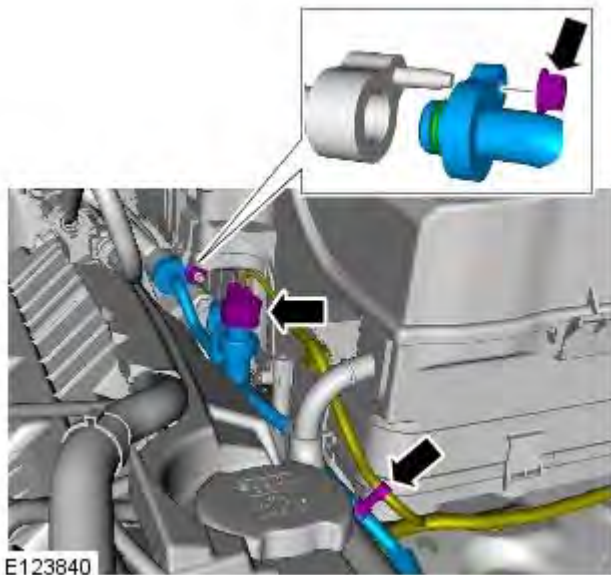
33.



34. TORQUE: 12 Nm

- Install new O-ring seals.

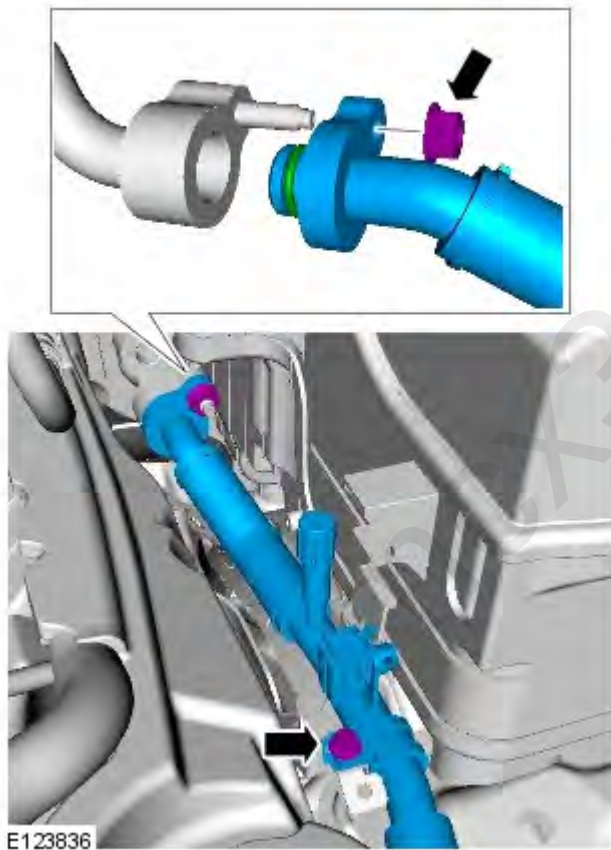




35.  **CAUTION:** Make sure that all openings are sealed. Use new blanking caps.

TORQUE: 12 Nm

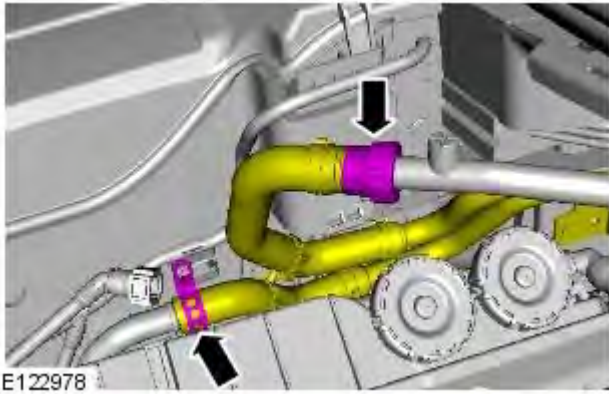
- Install new O-ring seals.



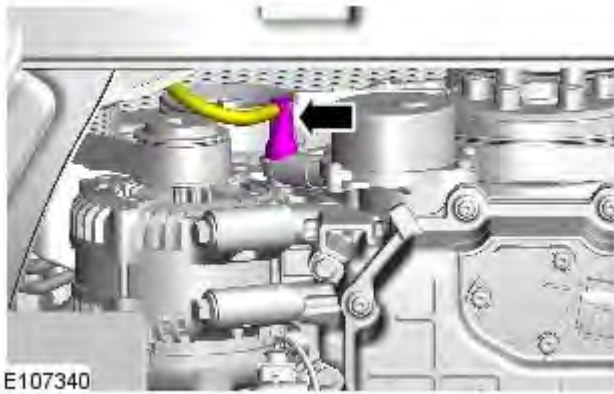
36.  **CAUTION:** Make sure that all openings are sealed. Use new blanking caps.

TORQUE: 12 Nm

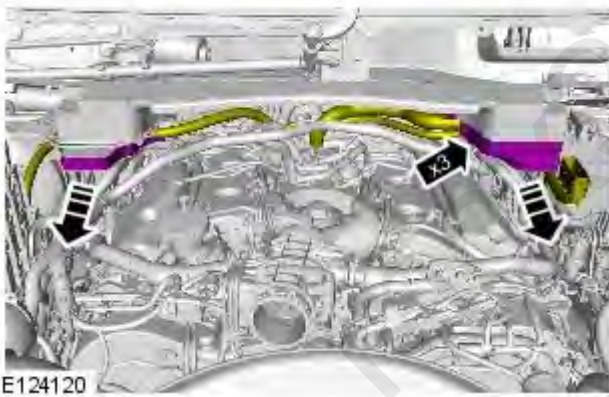
- Install new O-ring seals.



37.  **WARNING:** Be prepared to collect escaping fluid.

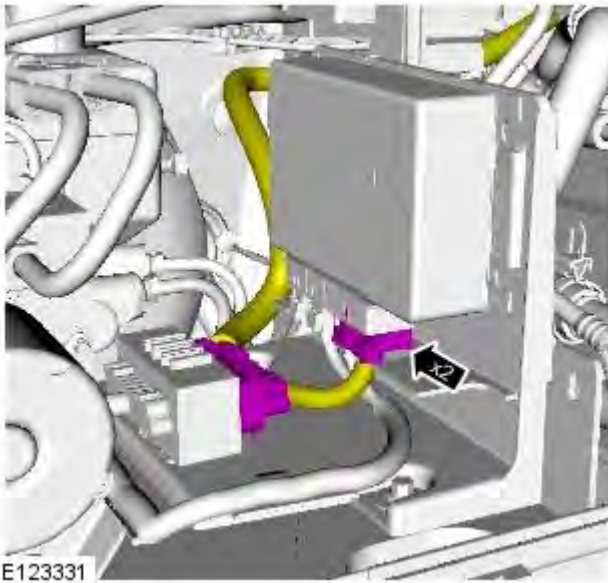


38.

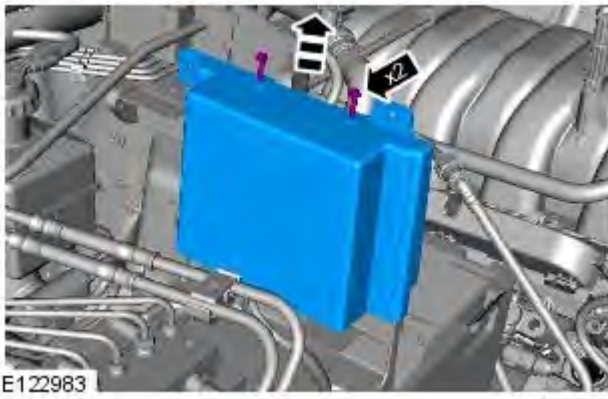


39.

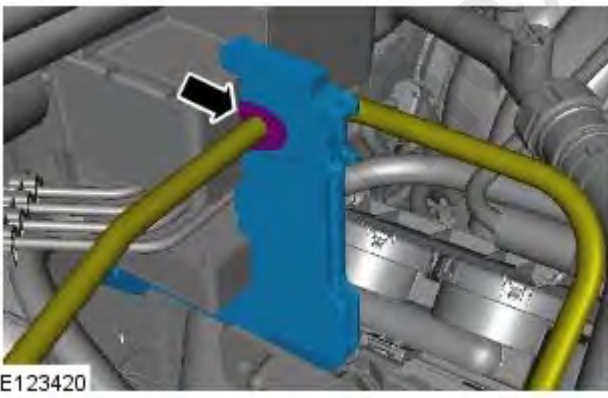
40.



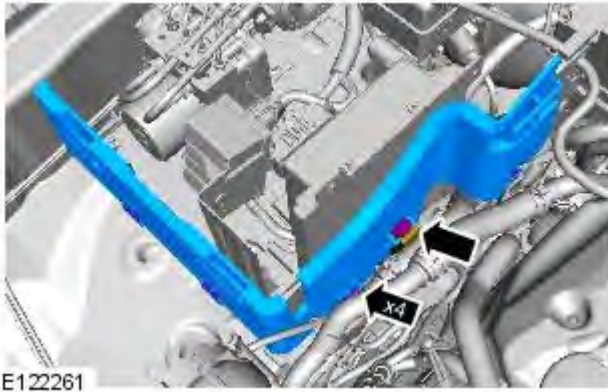
41. TORQUE: 8 Nm



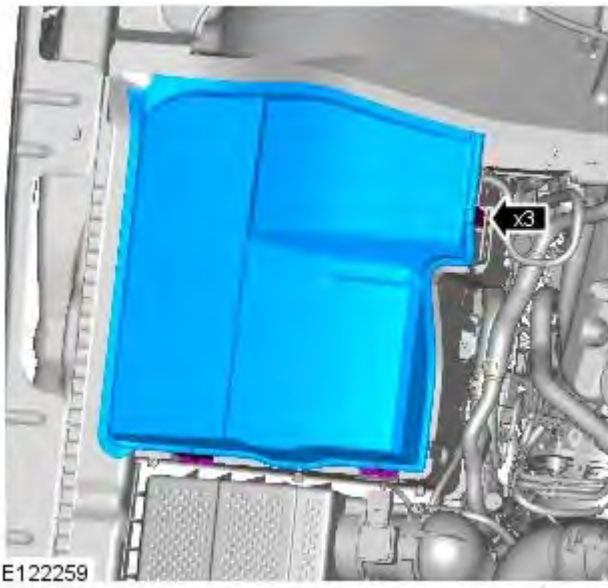
42.



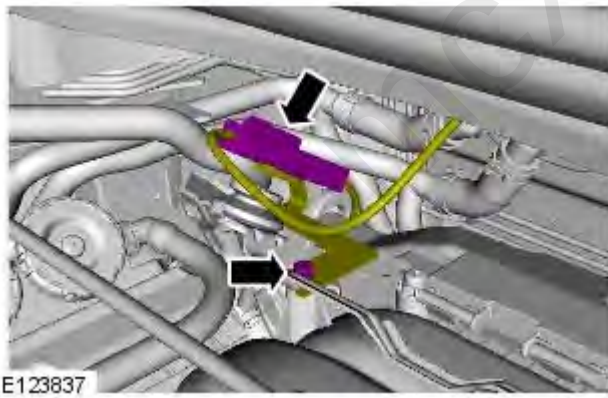
43. TORQUE: 10 Nm



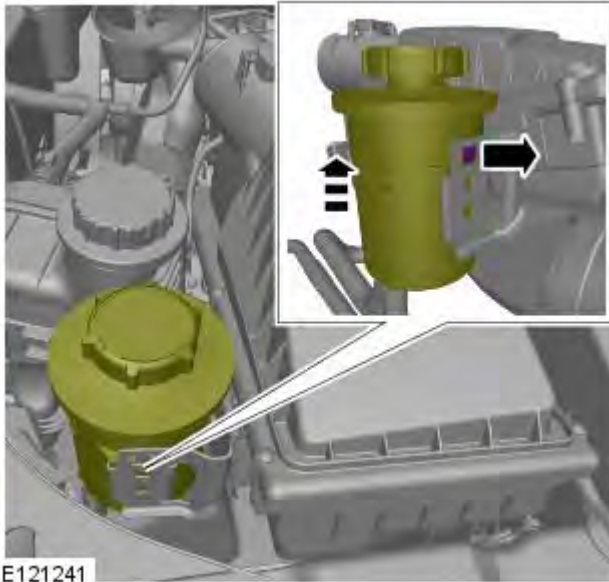
44.



45. TORQUE: 10 Nm

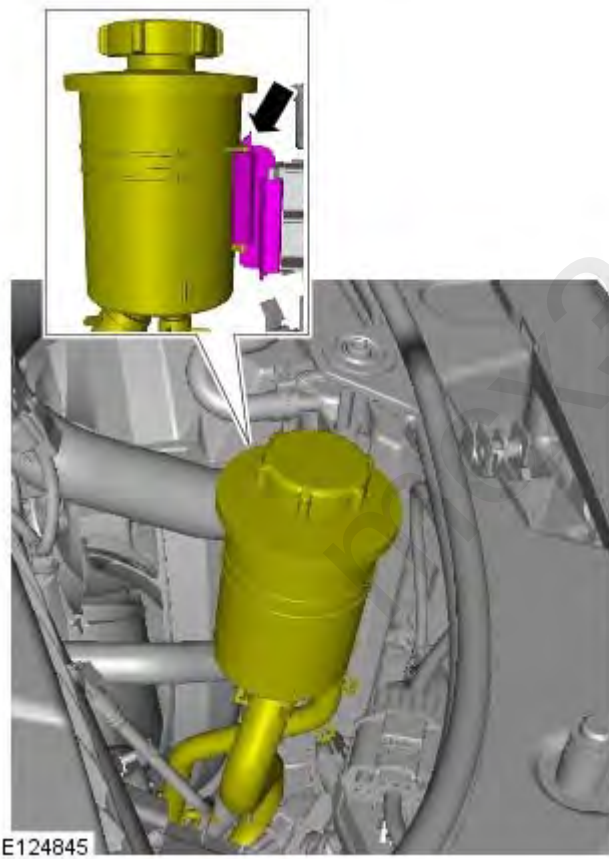


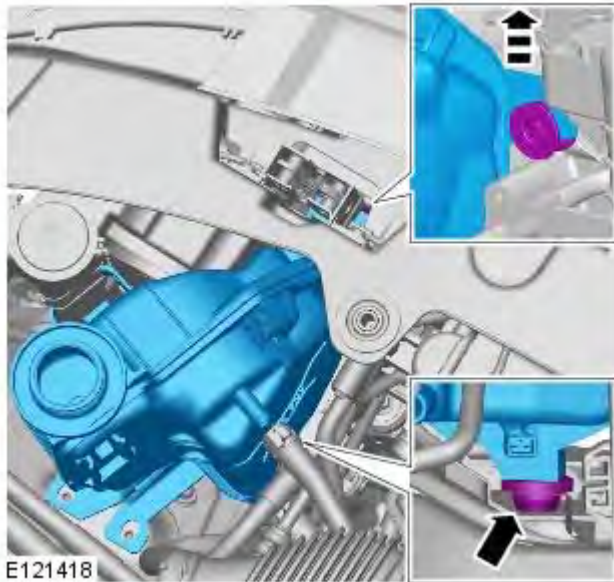
46.



Vehicles with active damping

47.





48.  CAUTION: Be prepared to collect escaping coolant.

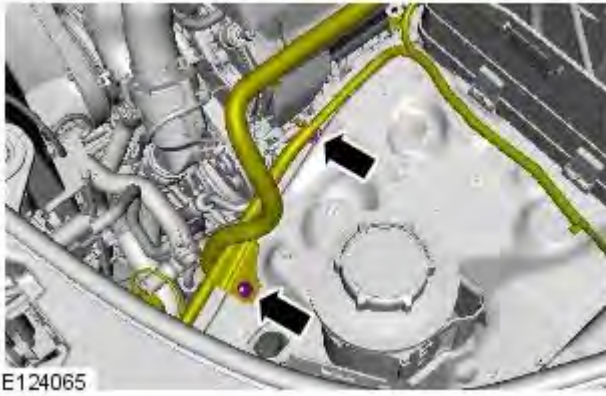
49.



50.



51. TORQUE: 10 Nm



All vehicles

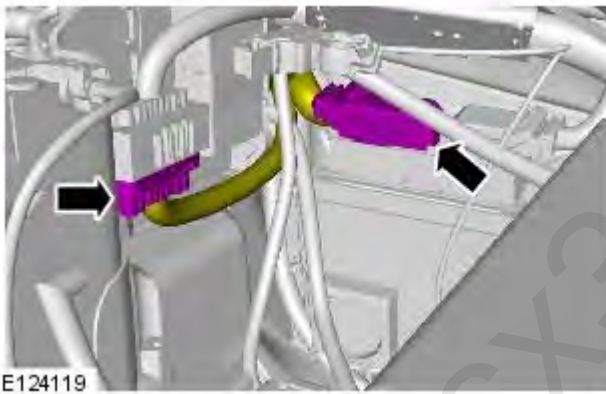
52. For additional information, refer to: Front Bumper Cover (501-19, Removal and Installation).

53. For additional information, refer to: Rear Bumper Cover (501-19, Removal and Installation).

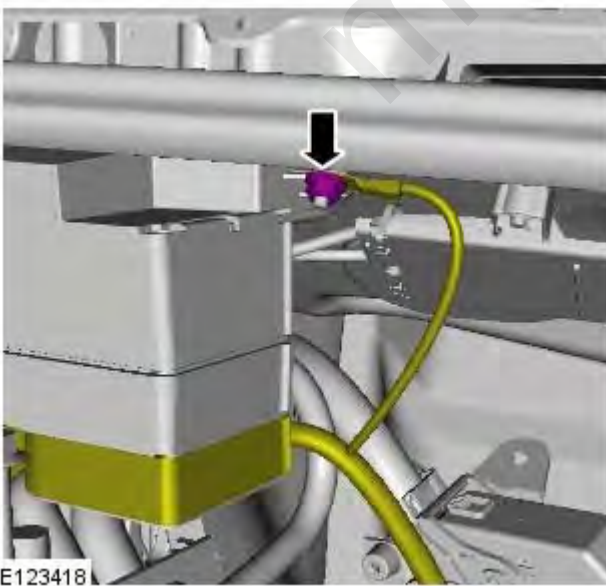
54. For additional information, refer to: Air Cleaner LH (303-12, Removal and Installation).

55. For additional information, refer to: Air Cleaner RH (303-12, Removal and Installation).

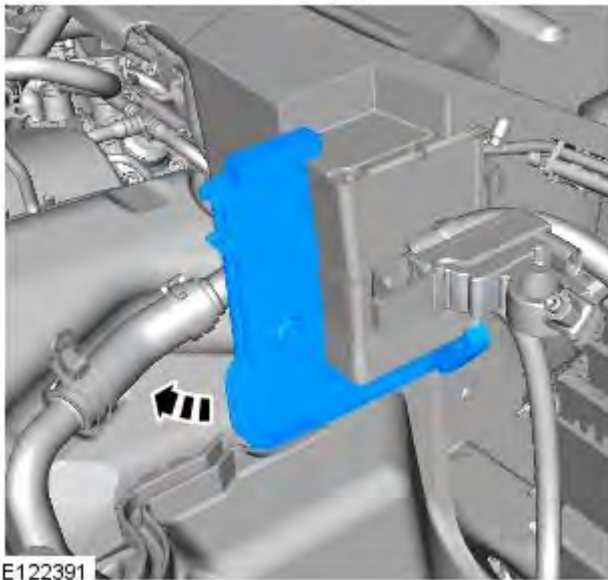
56.



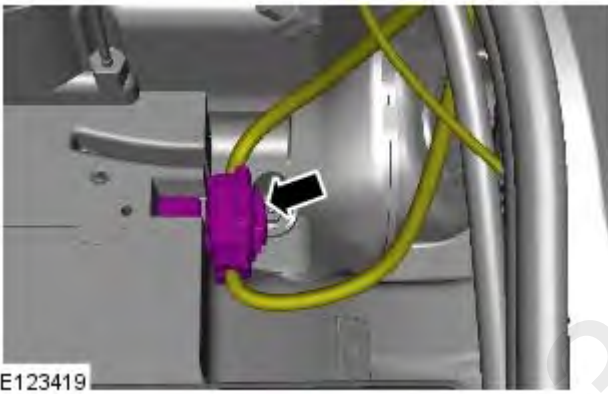
57. TORQUE: 10 Nm



58.

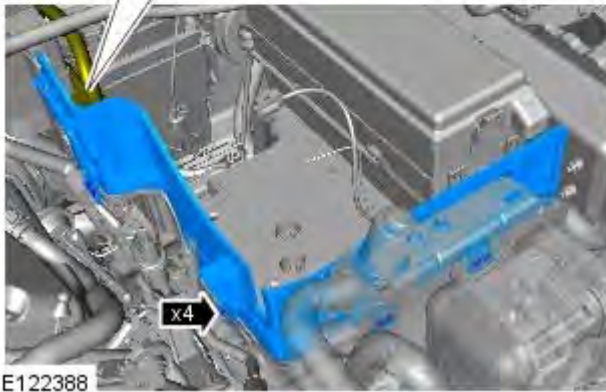
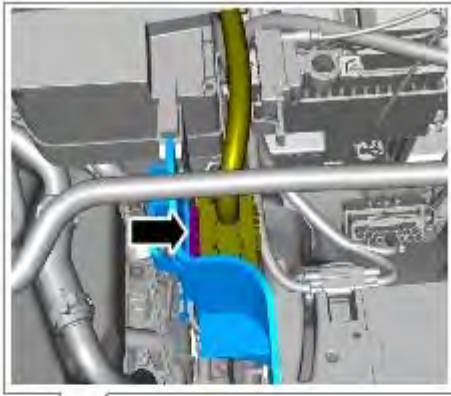


59.



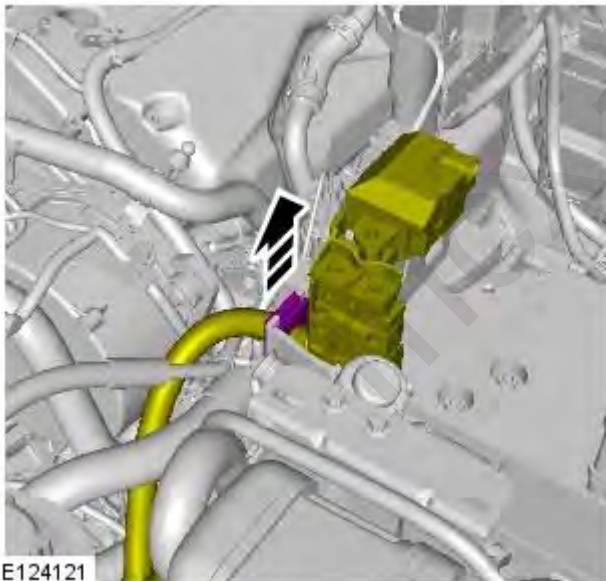
mcx30.com

60. NOTE: RHD illustration shown, LHD is similar.



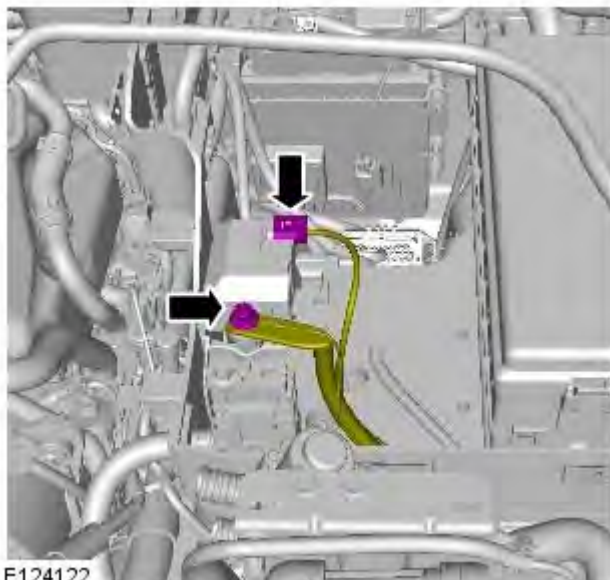
E122388

61.



E124121

62.



E124122

- 63. For additional information, refer to: Air Conditioning (A/C) System Recovery, Evacuation and Charging (412-00, General Procedures).
- 64. For additional information, refer to: Battery (414-01, Removal and Installation).
- 65. For additional information, refer to: Cooling System Draining, Filling and Bleeding (303-03, General Procedures).
- 66. Bleed the braking system.
For additional information, refer to: Brake System Bleeding (206-00, General Procedures).

Full Frame and Body Mounting - BodyTDV6 3.0L Diesel/TDV6 2.7L Diesel

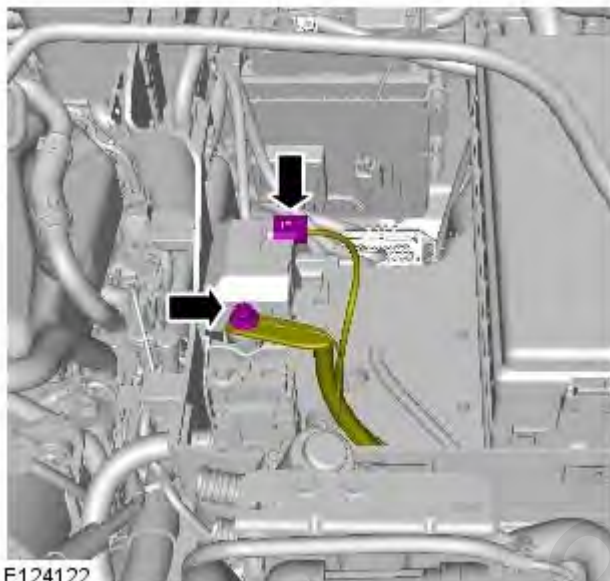
Removal and Installation

Removal

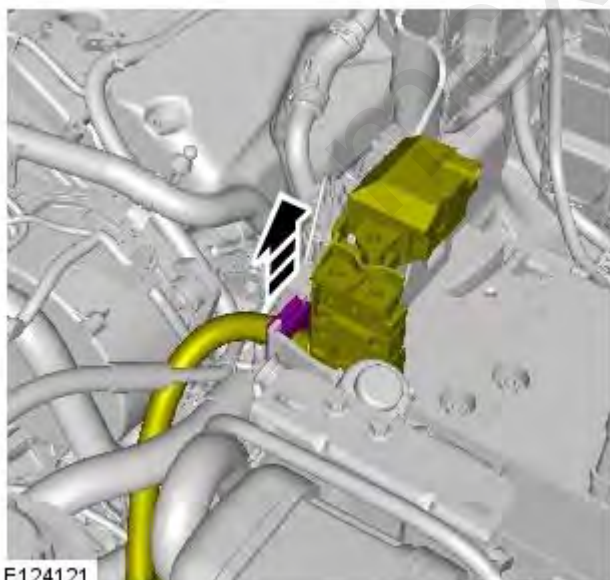
- NOTE: Some variation in the illustrations may occur, but the essential information is always correct.
- NOTE: Some illustrations may show the engine removed for clarity.

All vehicles

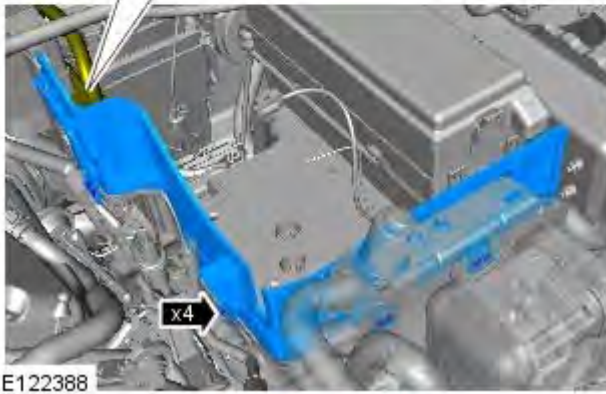
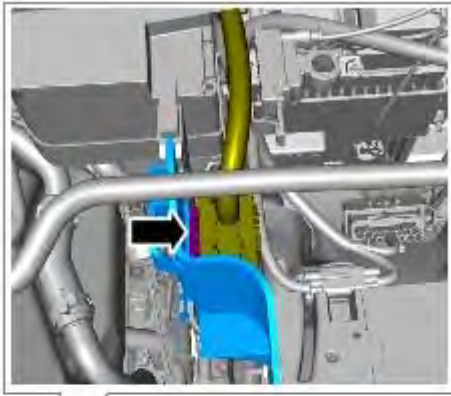
1. For additional information, refer to: Air Conditioning (A/C) System Recovery, Evacuation and Charging (412-00, General Procedures).
2. Remove the battery.
For additional information, refer to: Battery (414-01, Removal and Installation).
- 3.



4.

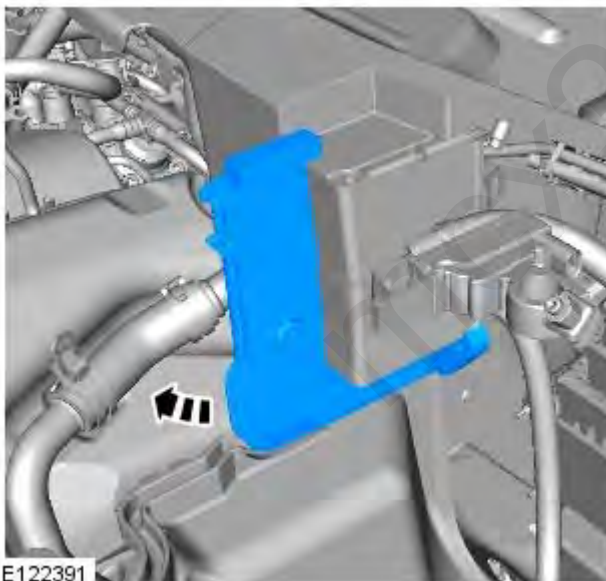


5. NOTE: RHD illustration shown, LHD is similar.



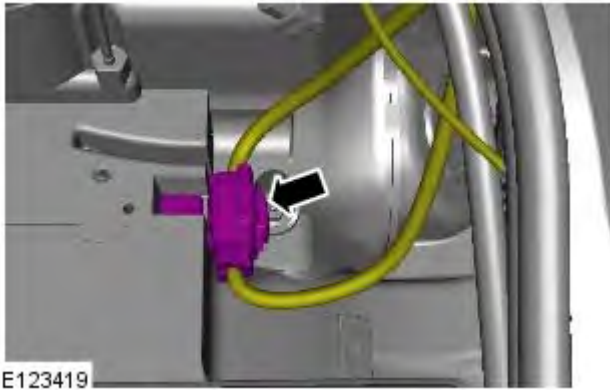
E122388

6.

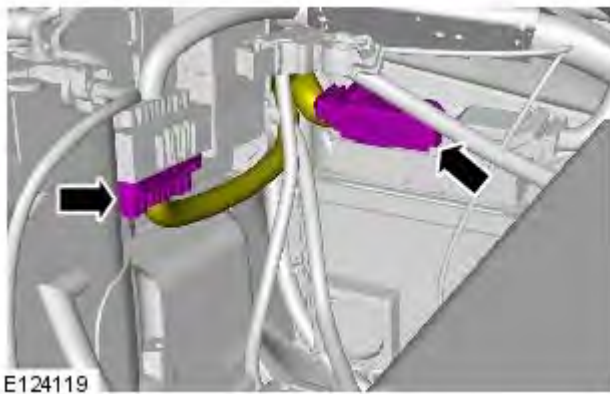


E122391

7.



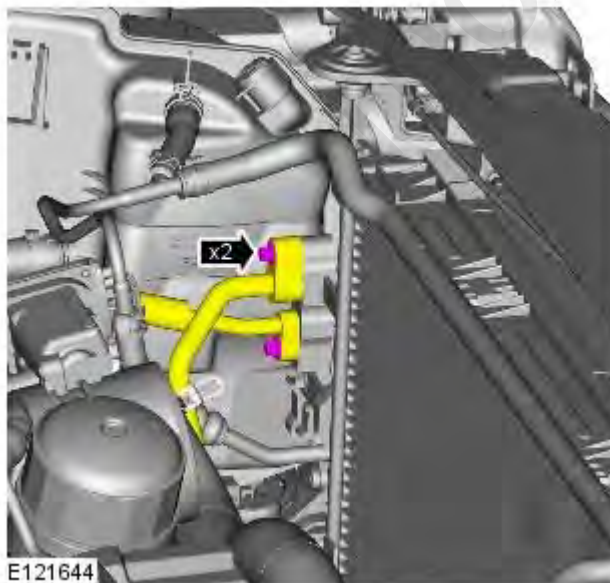
8.

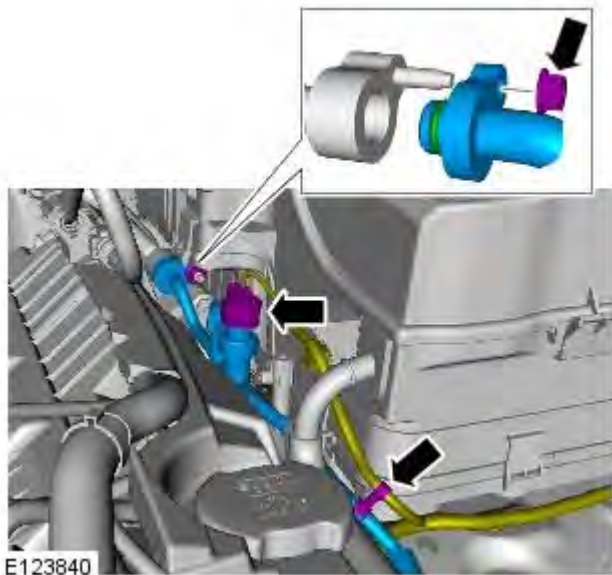


9. For additional information, refer to: Air Cleaner (303-12, Removal and Installation).
10. For additional information, refer to: Cooling System Draining, Filling and Bleeding (303-03, General Procedures).
11. For additional information, refer to: Front Bumper Cover (501-19, Removal and Installation).
12. For additional information, refer to: Rear Bumper Cover (501-19, Removal and Installation).

13.  **CAUTION:** Make sure that all openings are sealed. Use new blanking caps.

- Remove and discard the 2 O-ring seals.

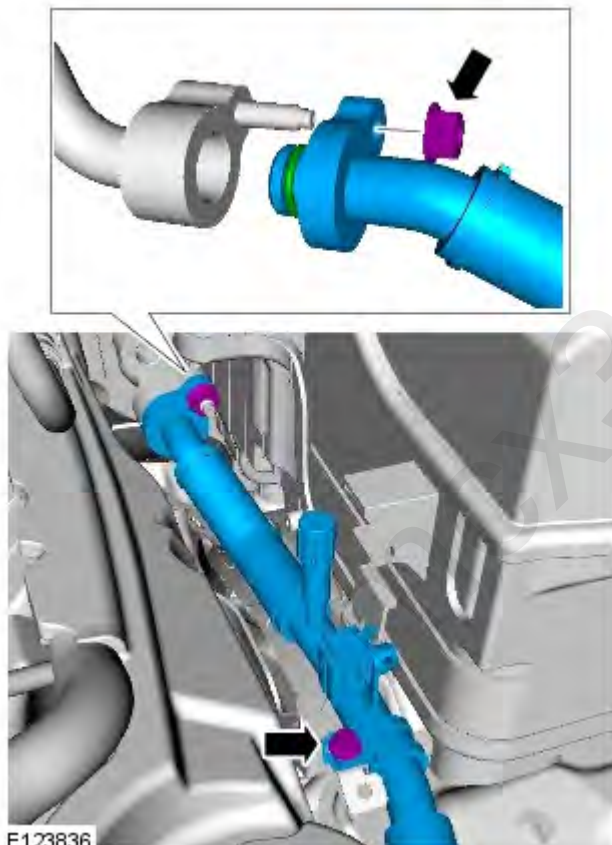




E123840

14.  **CAUTION:** Make sure that all openings are sealed. Use new blanking caps.

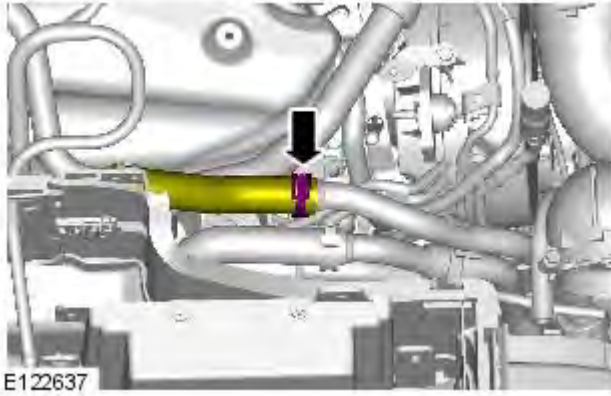
- Discard the O-ring seal.



E123836

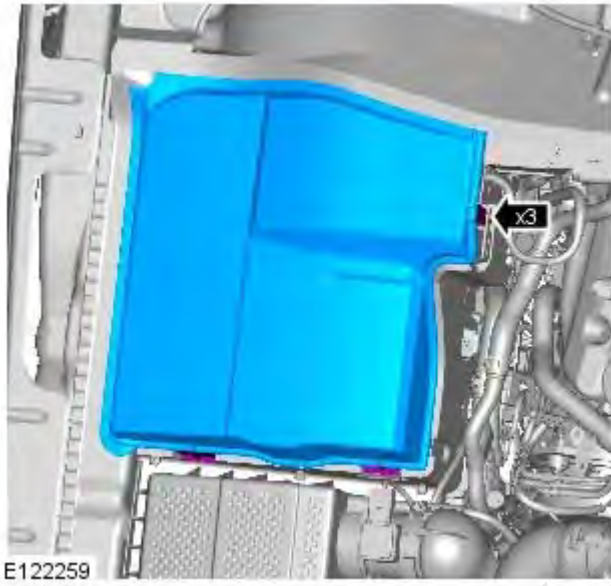
15.  **CAUTION:** Make sure that all openings are sealed. Use new blanking caps.

- Discard the O-ring seal.

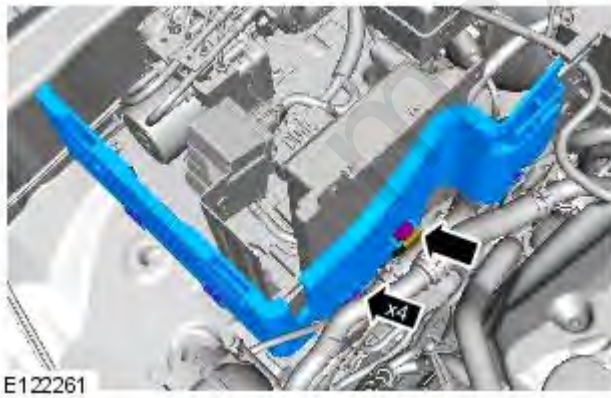


16.  WARNING: Be prepared to collect escaping fluid.

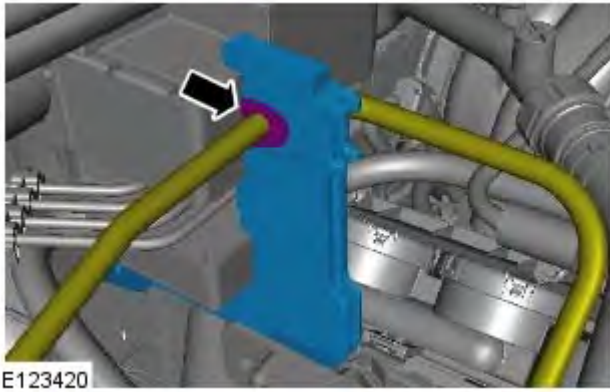
17.



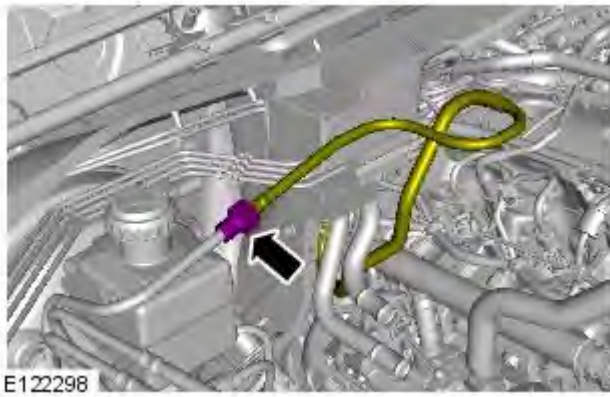
18.



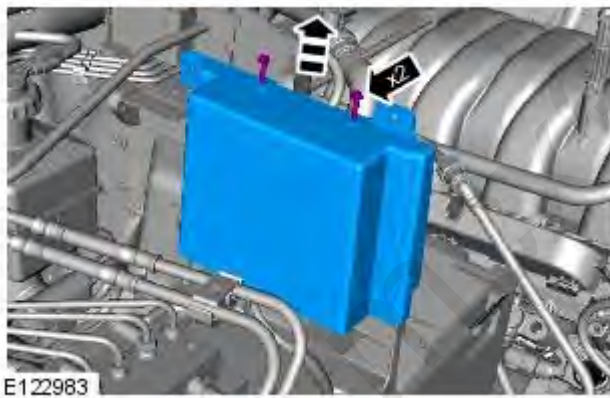
19.



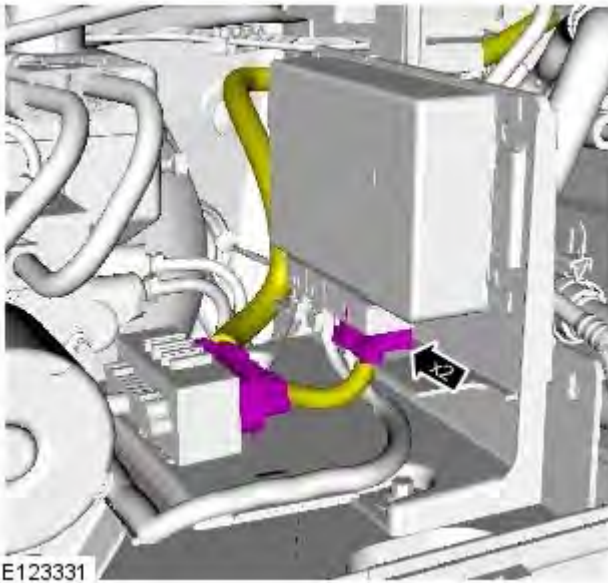
20.



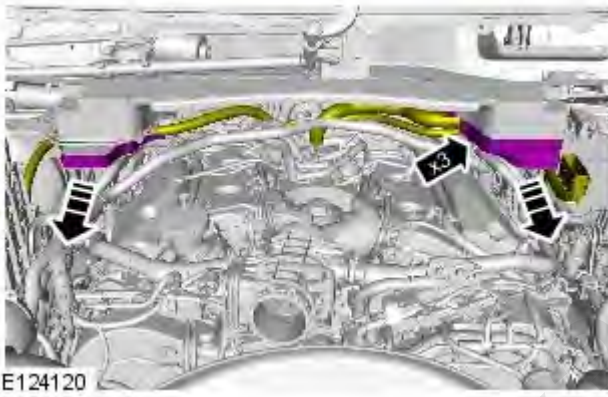
21.



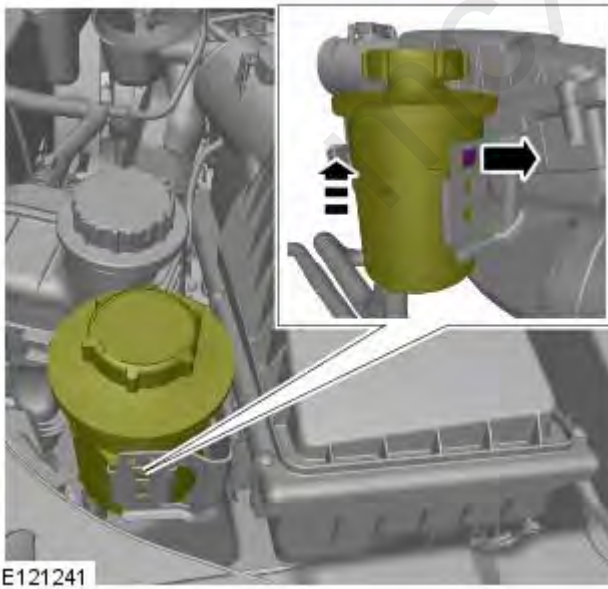
22.



23.



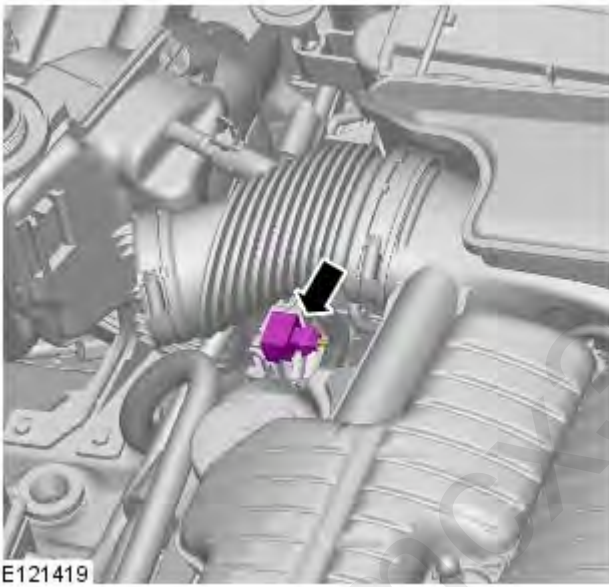
24.



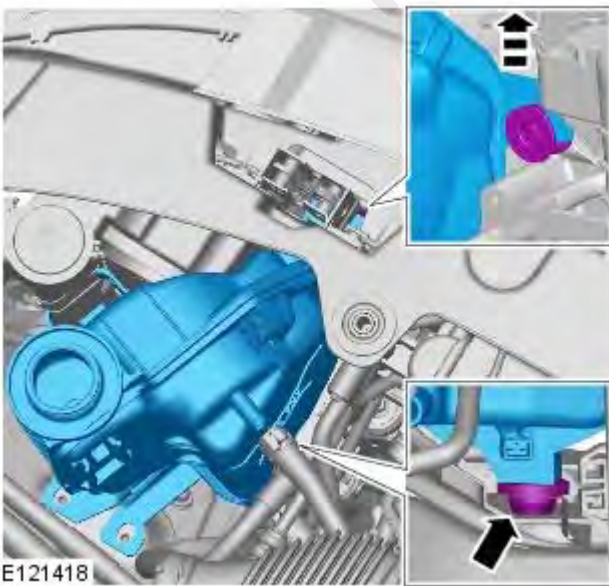
25.



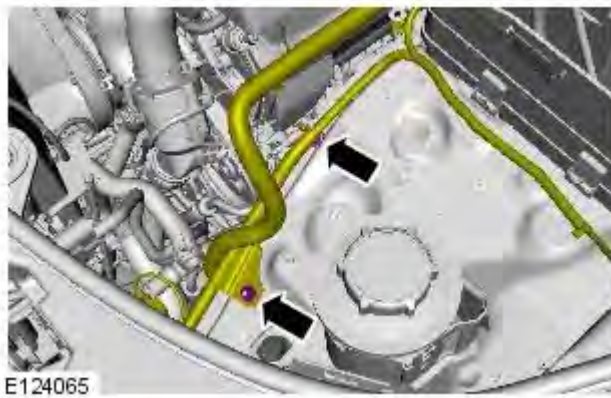
26.



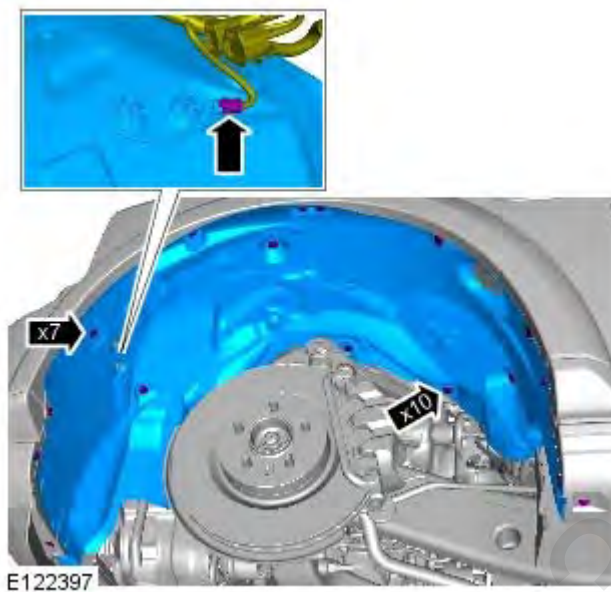
27.  CAUTION: Be prepared to collect escaping coolant.



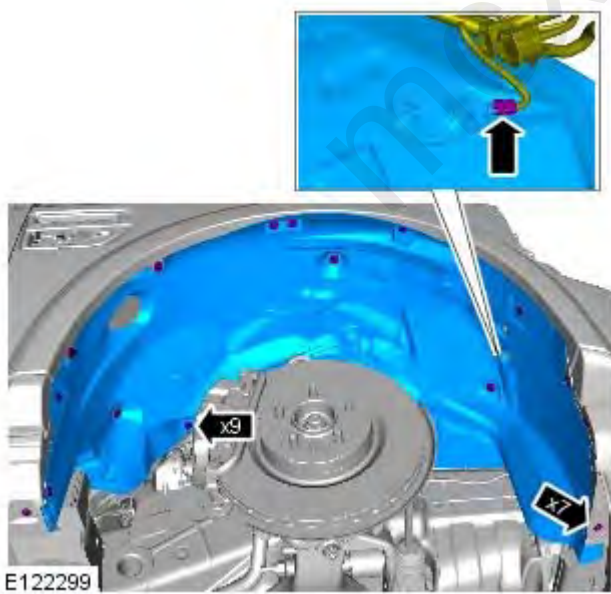
28.



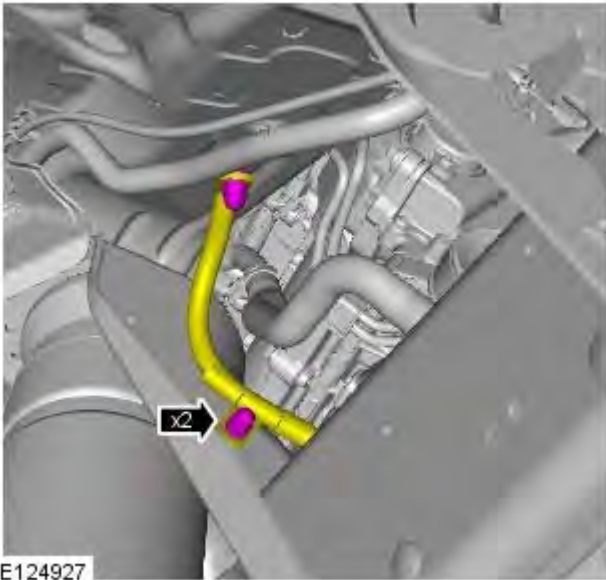
29.



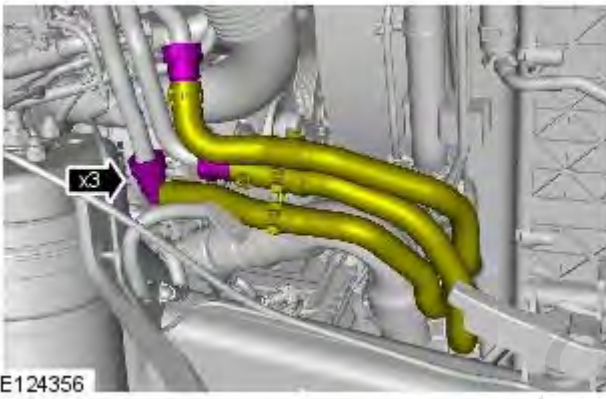
30.



31.

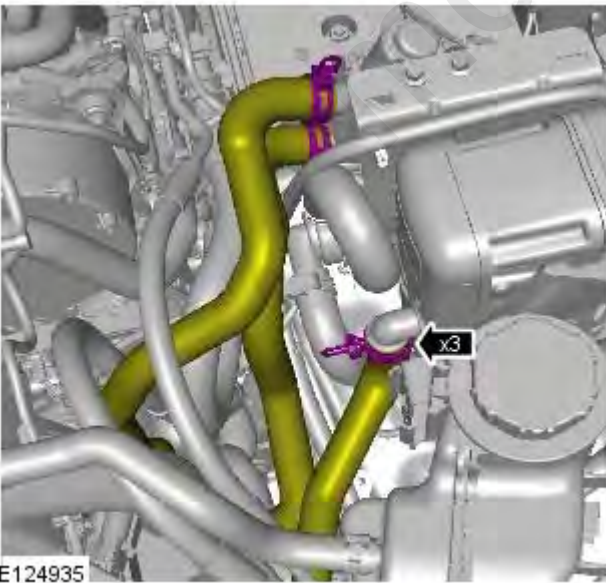


32.  CAUTION: Be prepared to collect escaping coolant.

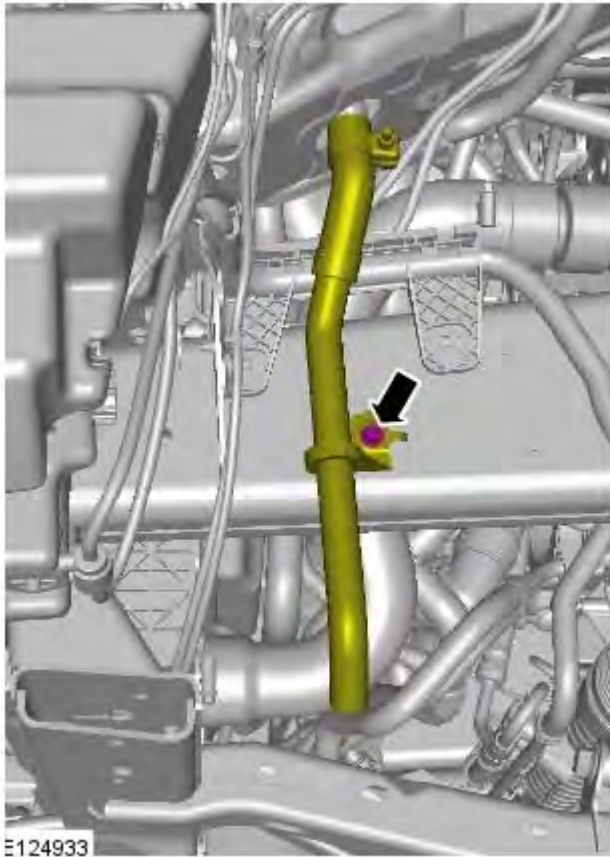


Vehicles with auxiliary heating

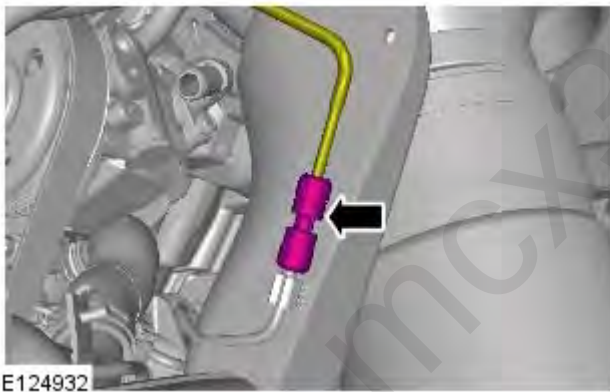
33.



34.

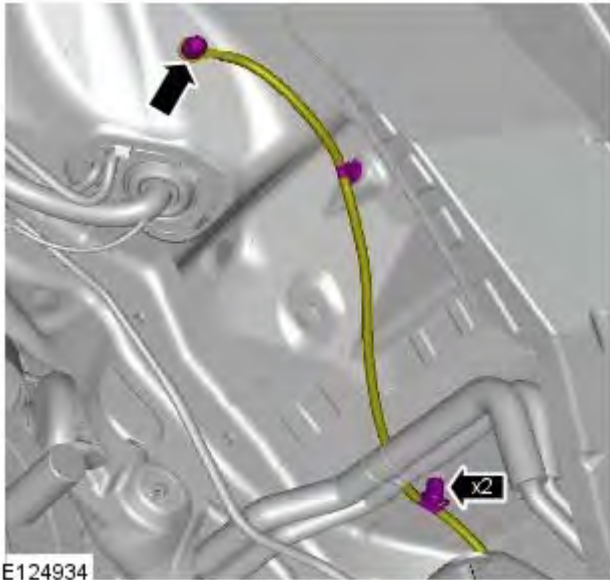


35.



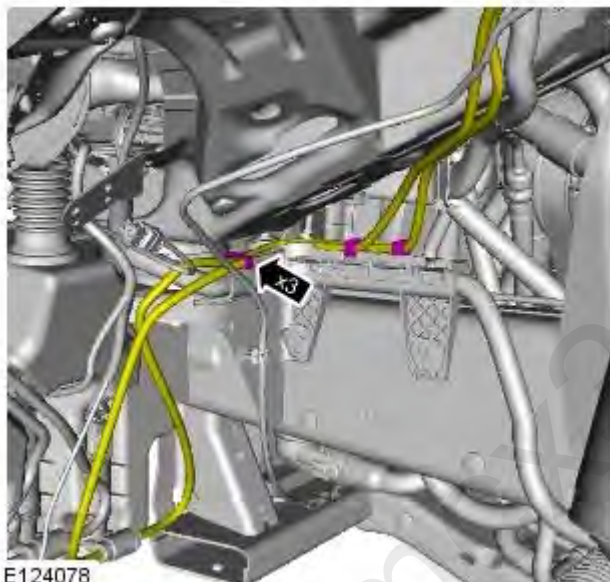
All vehicles

36.



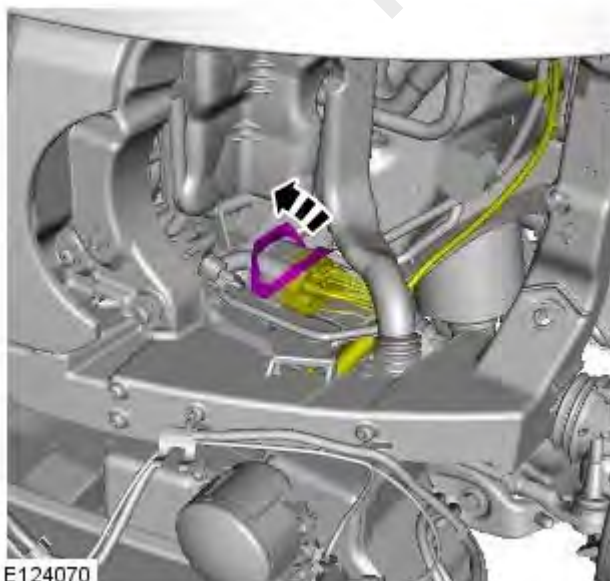
E124934

37.



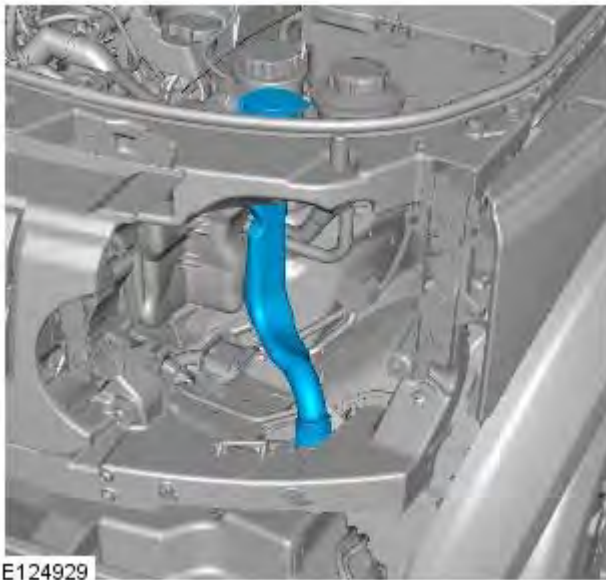
E124078

38.



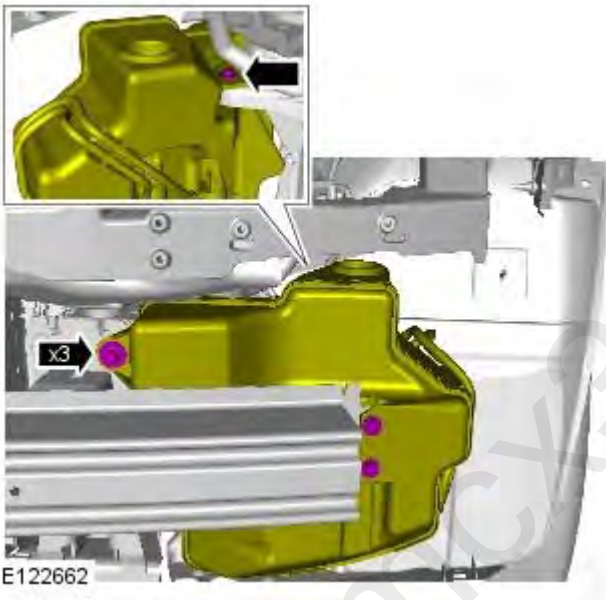
E124070

39.



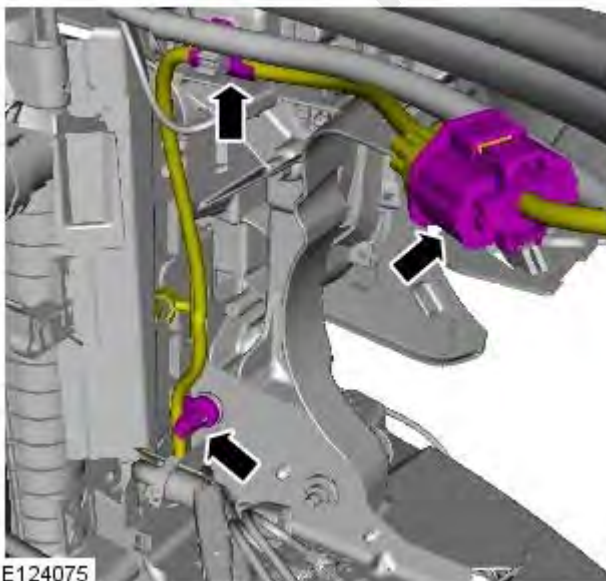
E124929

40.



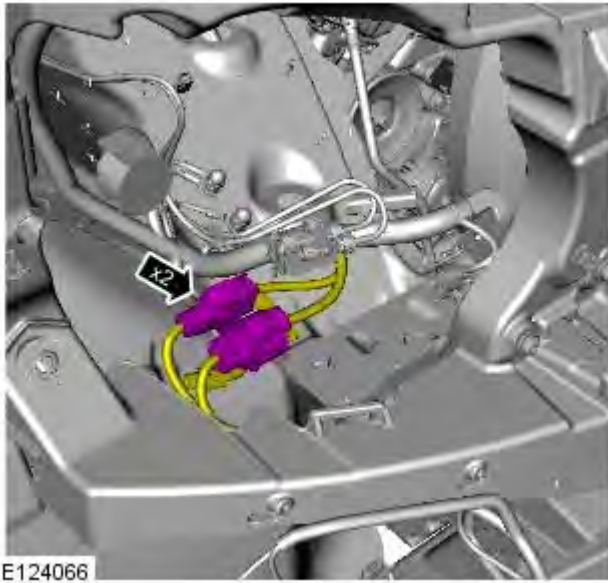
E122662

41.

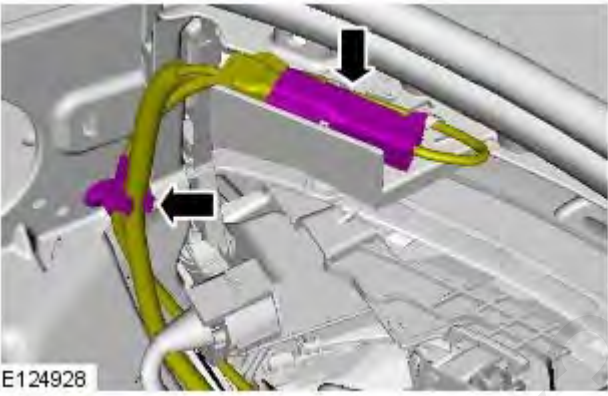


E124075

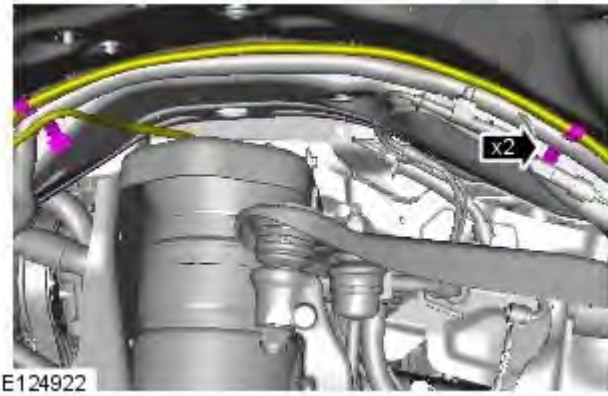
42.



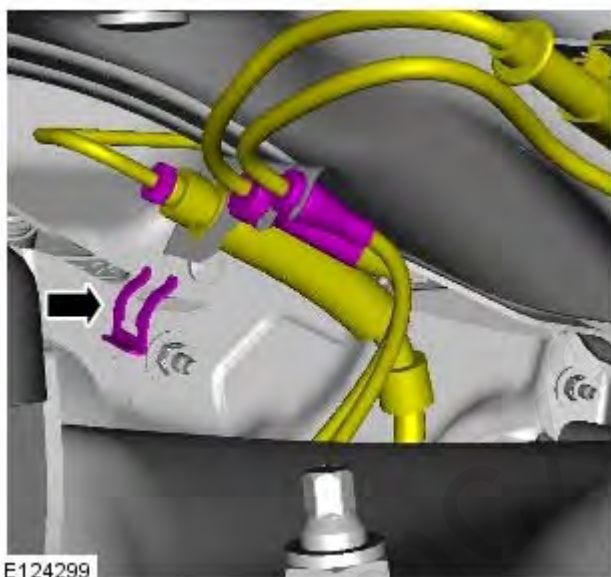
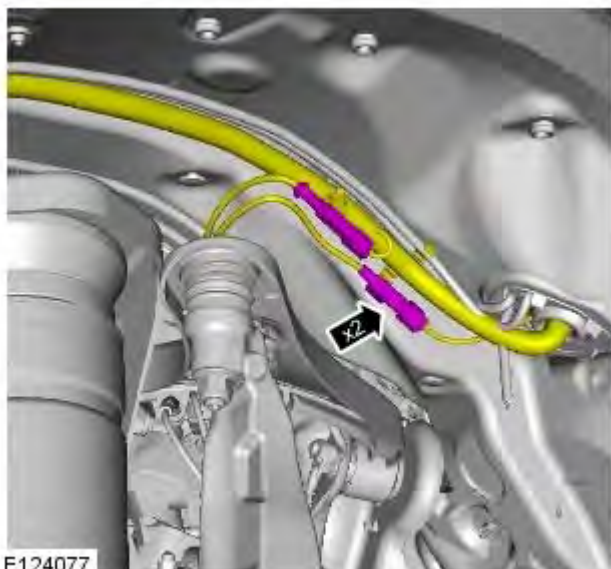
43.



44.

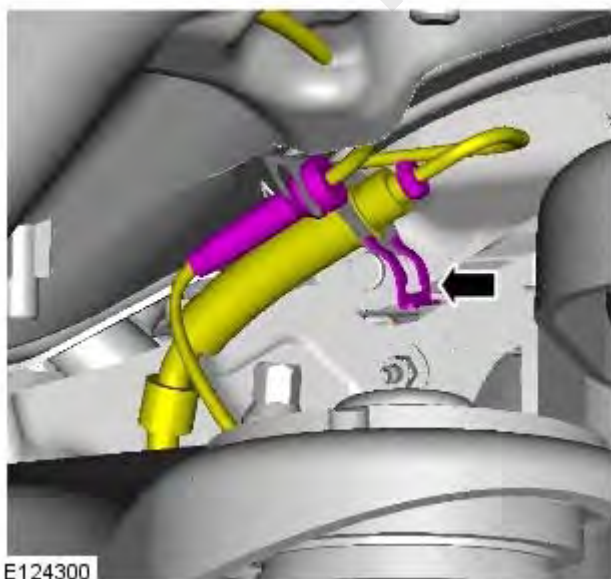


45.



46.  **CAUTION:** Before disconnecting or removing the components, make sure the area around the joint faces and connections are clean. Plug open connections to prevent contamination.

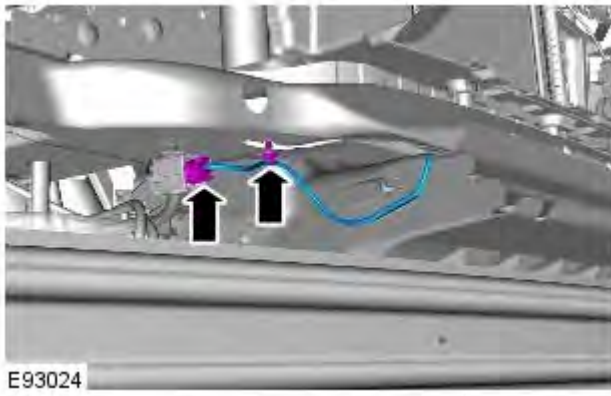
- Position an absorbent cloth to collect fluid spillage.
- Disconnect the line union.
- Remove the clip.



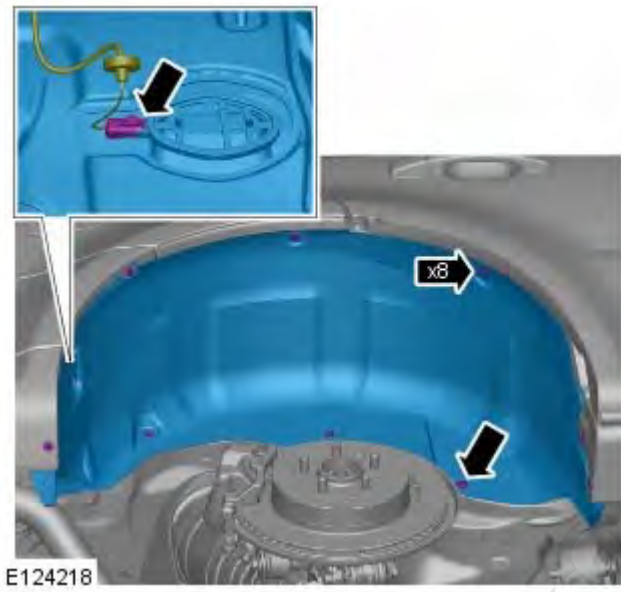
47.  **CAUTION:** Before disconnecting or removing the components, make sure the area around the joint faces and connections are clean. Plug open connections to prevent contamination.

- Position an absorbent cloth to collect fluid spillage.
- Disconnect the line union.
- Remove the clip.

48.

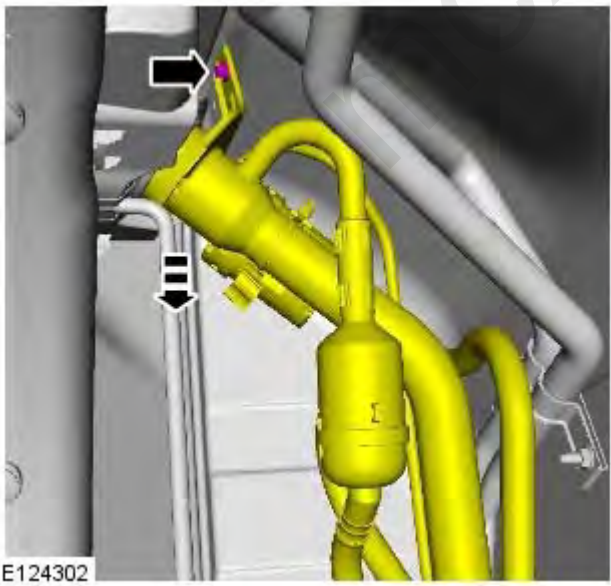


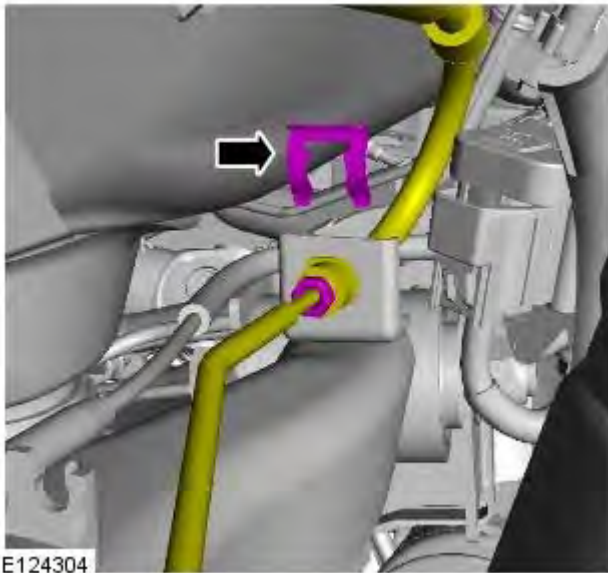
49.



50. Remove the fuel filler cap.

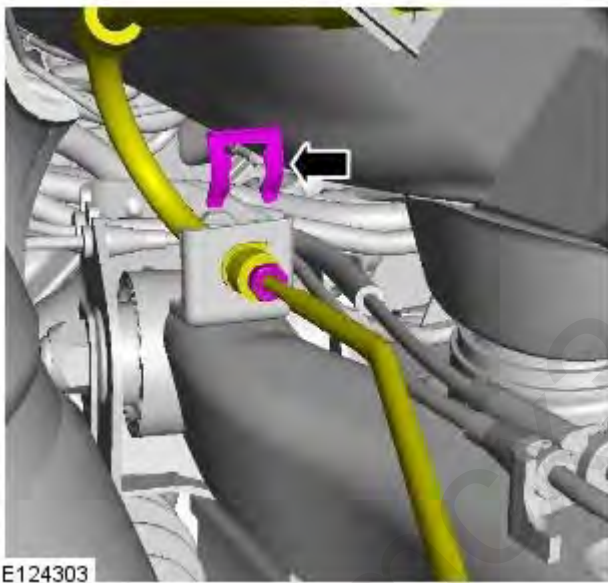
51.





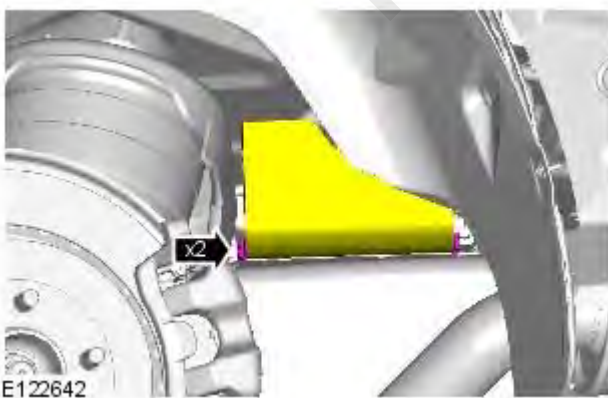
52.  **CAUTION:** Before disconnecting or removing the components, make sure the area around the joint faces and connections are clean. Plug open connections to prevent contamination.

- Position an absorbent cloth to collect fluid spillage.
- Disconnect the line union.
- Remove the clip.



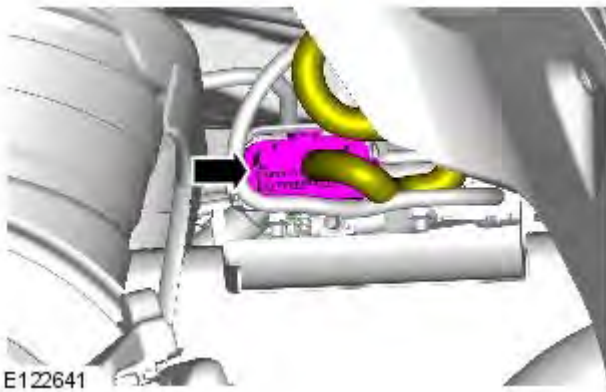
53.  **CAUTION:** Before disconnecting or removing the components, make sure the area around the joint faces and connections are clean. Plug open connections to prevent contamination.

- Position an absorbent cloth to collect fluid spillage.
- Disconnect the line union.
- Remove the clip.

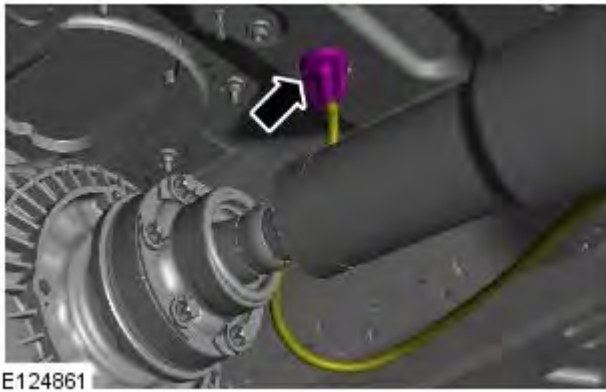


54.

55.

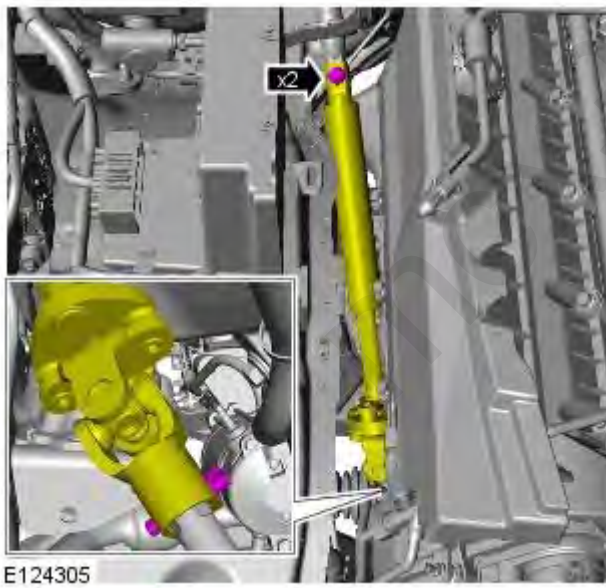


56.  CAUTION: Note the fitted position of the seal.

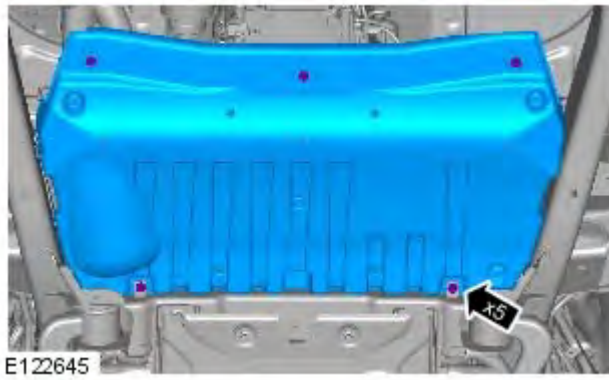


57.

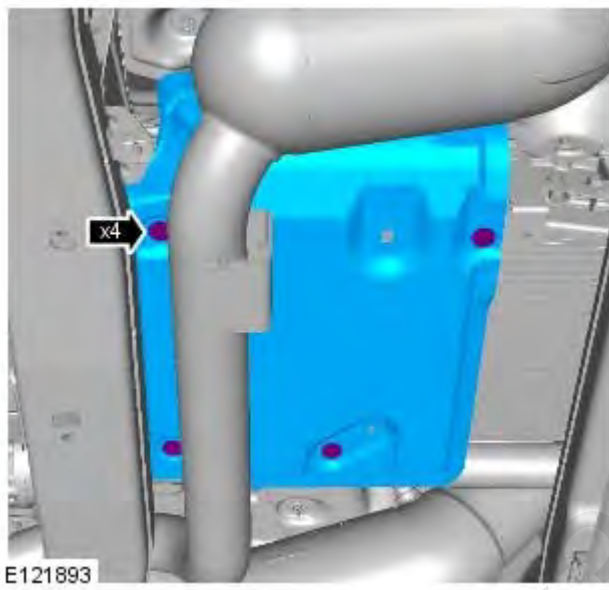
- Remove and discard the bolt.



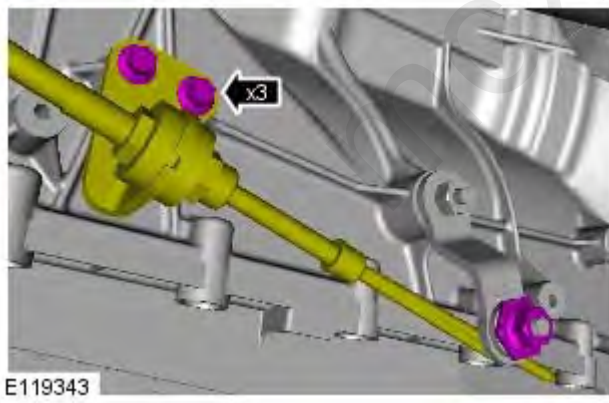
58.



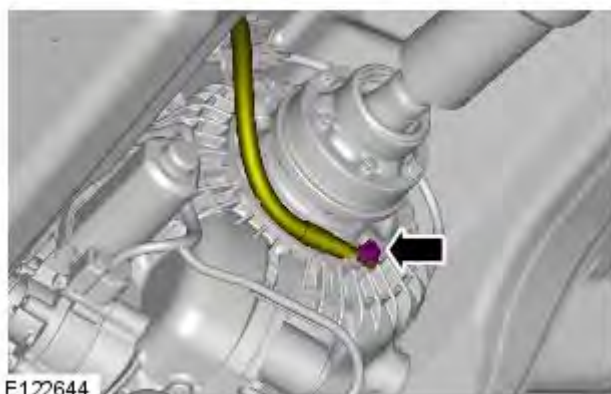
59.



60.



61.

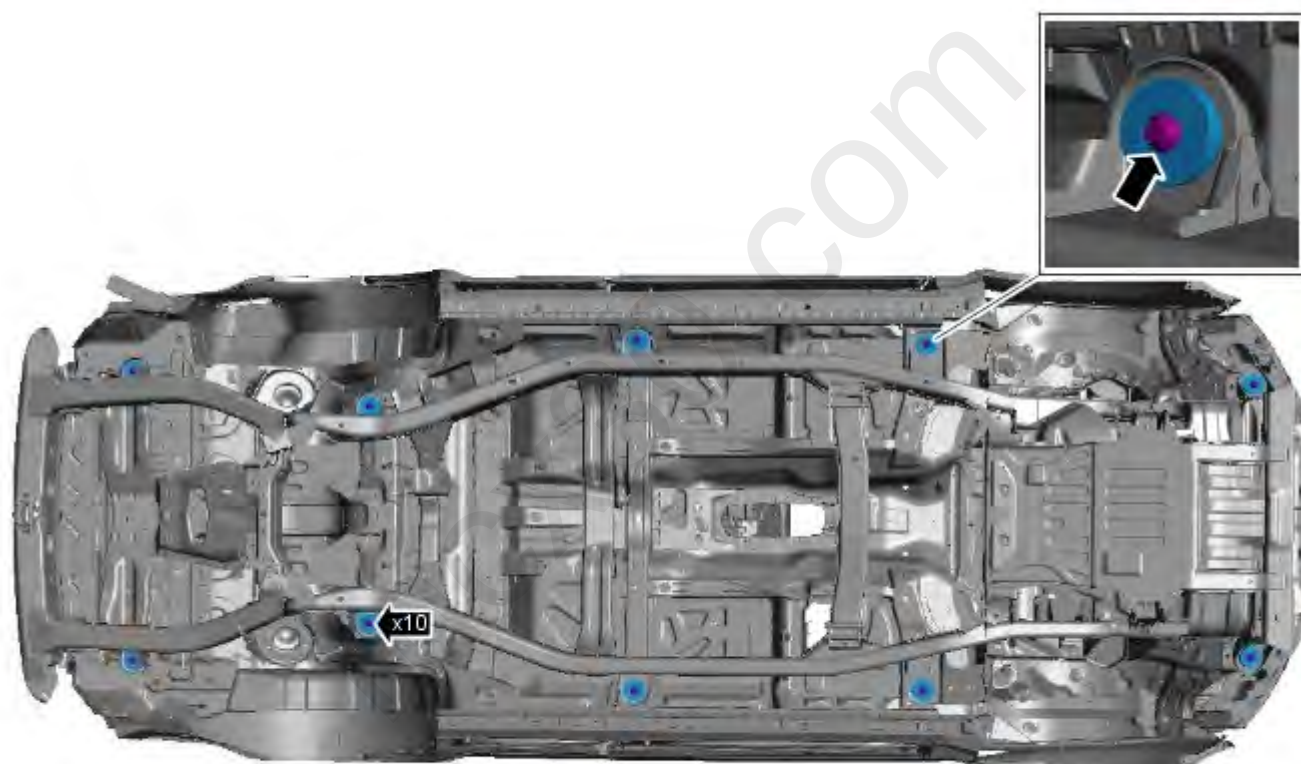


E122644

62. Carefully lower the vehicle and support the chassis with axle stands.

63. Remove and discard the 10 body mount bolts.

- Remove the 10 spacing washers.



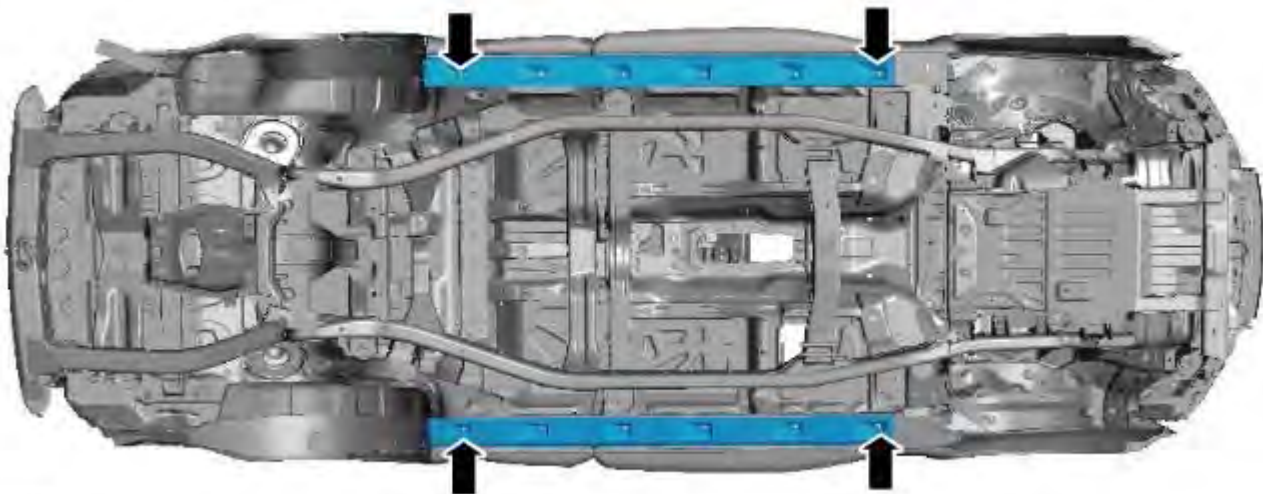
E124859

64.  **CAUTION:** To prevent the body becoming unstable when raised from the integrated body frame, install the vehicle tie down straps.

- **NOTE:** Note the fitted position of the body mounts.

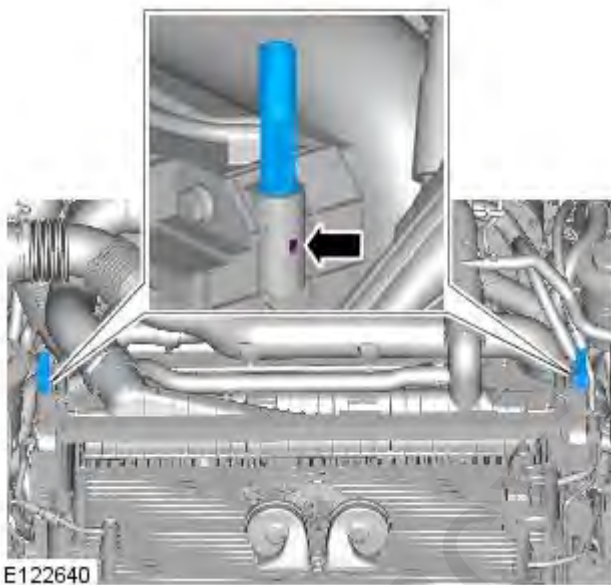
Using an assistant raise and support the body.

- Remove the body mounts.



E124860

65.



E122640

Installation

All vehicles

1. CAUTIONS:



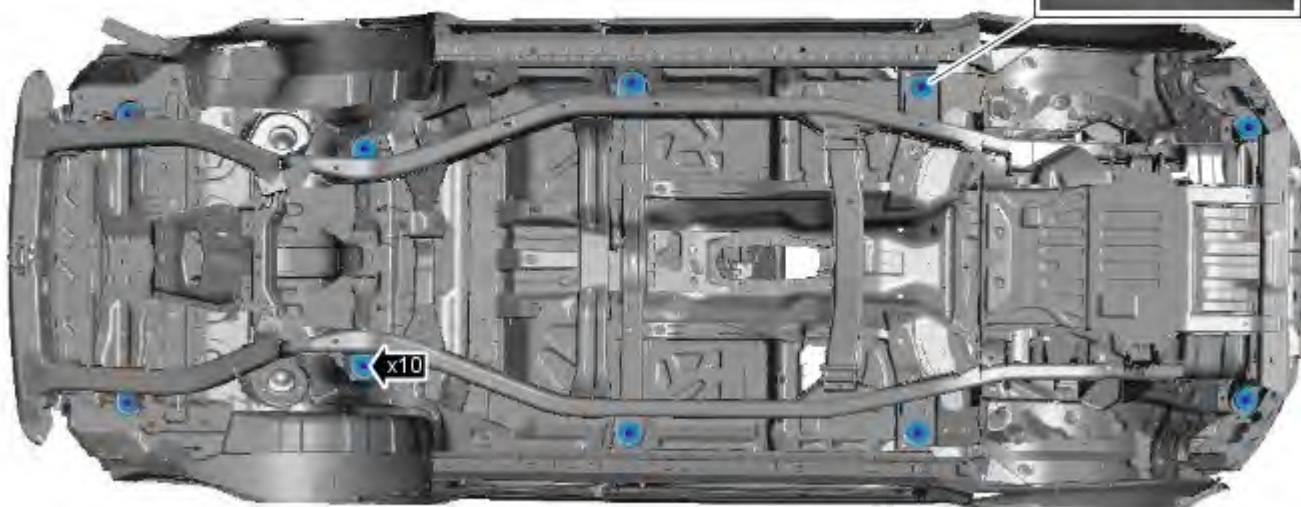
Make sure that new bolts are installed.



Make sure that all components are free and do not get caught up whilst lowering the body onto the integrated body frame.

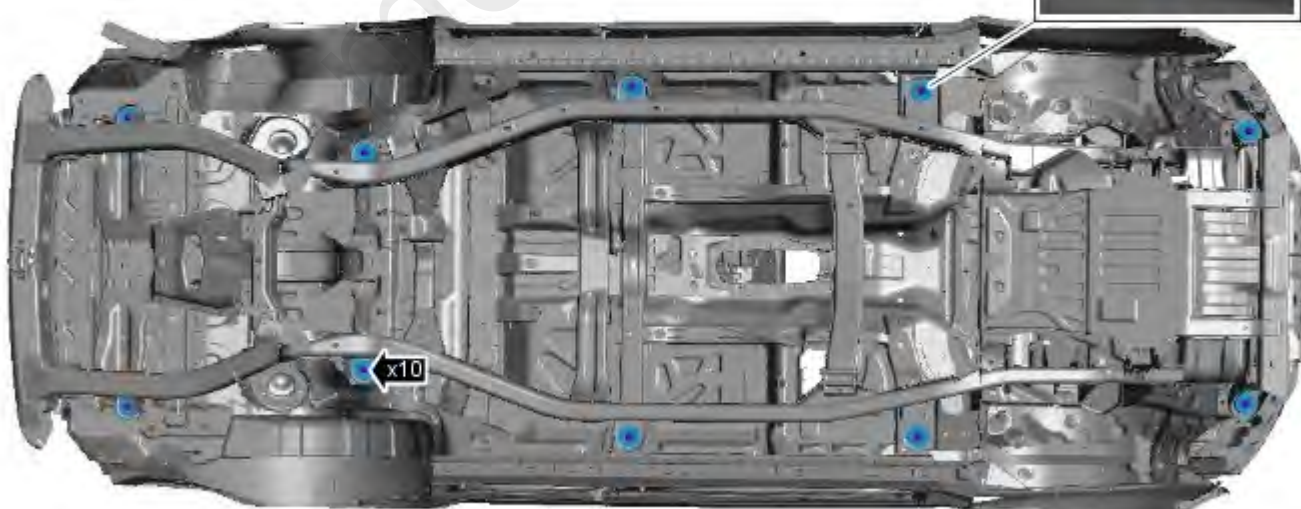
Using an assistant install the body to the integrated body frame.

- Install the body mounts.
- With assistance align the body and integrated body frame mounts.
- Install the bolts, but do not tighten fully at this stage.



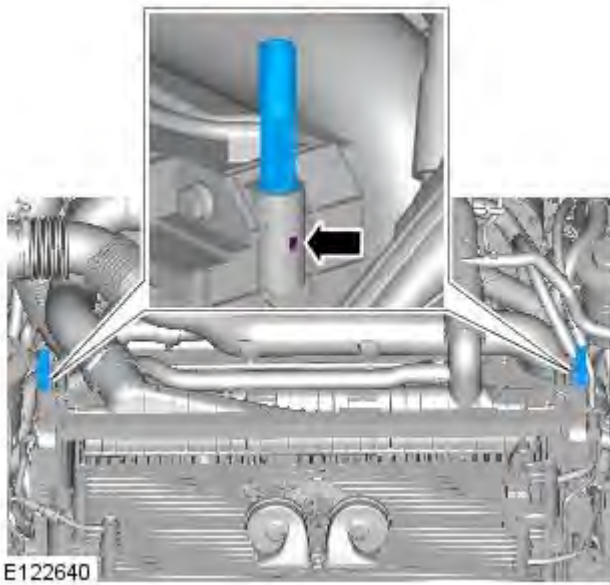
E124859

2. Remove the tie down straps securing the body.
3. TORQUE: 133 Nm

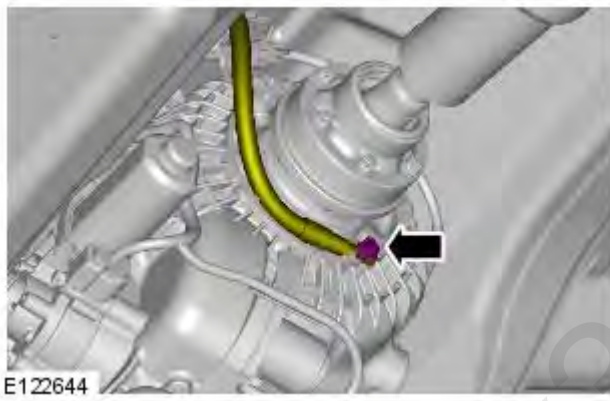


E124859

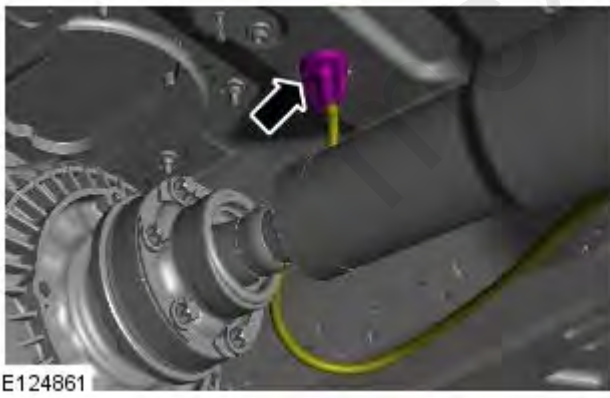
4.



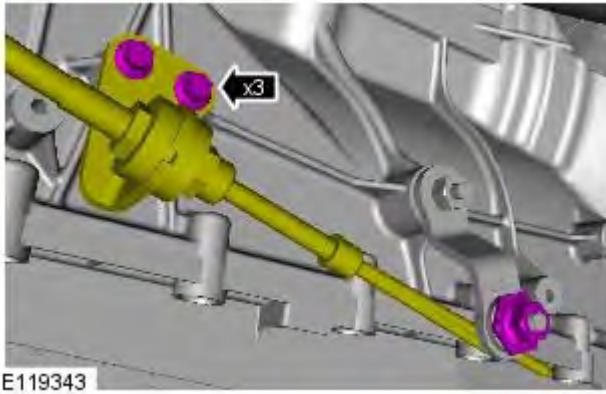
5. TORQUE: 25 Nm



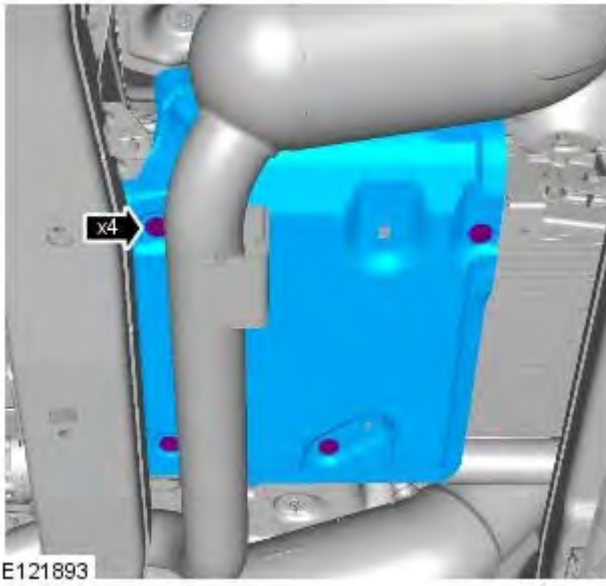
6.



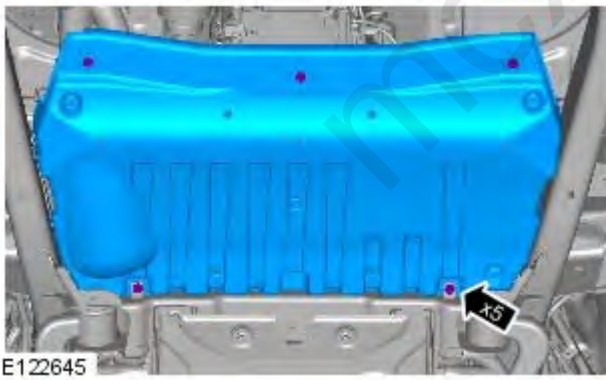
7.



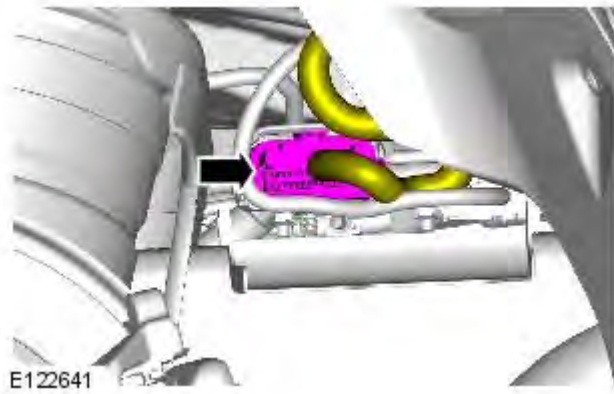
8. TORQUE: 12 Nm



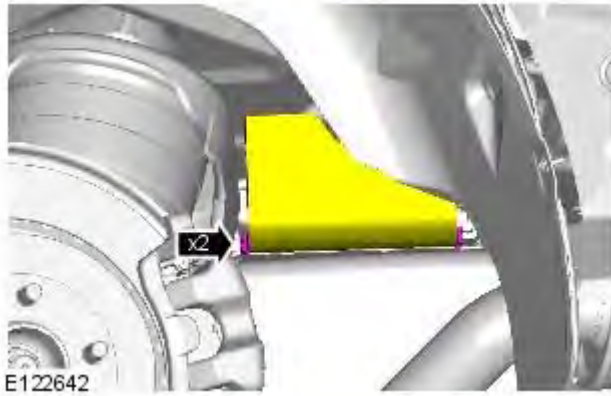
9. TORQUE: 12 Nm



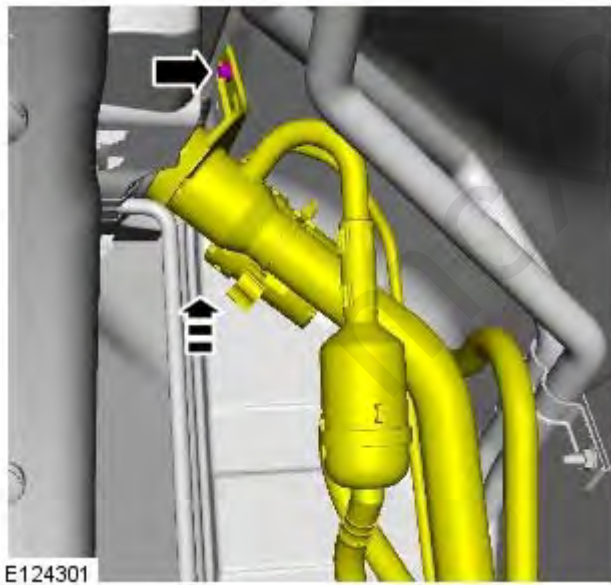
10.



11.

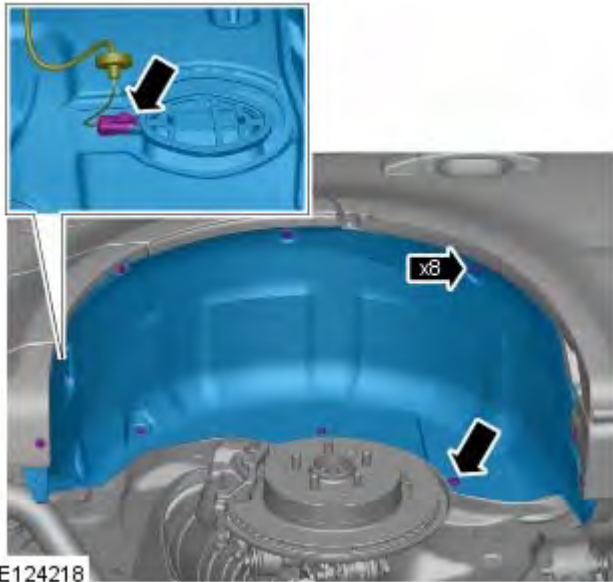


12. TORQUE: 12 Nm



13. Install the fuel filler cap.

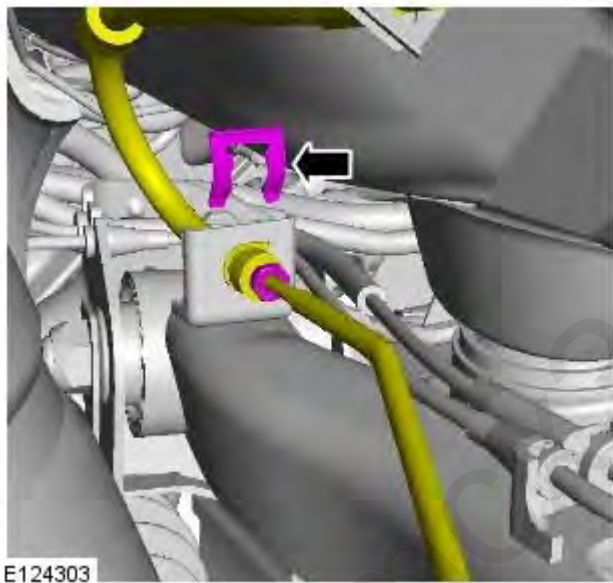
14.



15. NOTE: Remove and discard the blanking caps.

TORQUE: 16 Nm

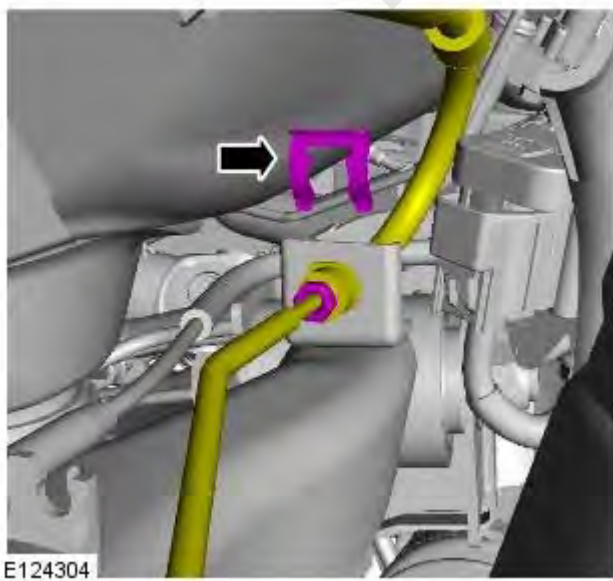
- Clean the component mating faces.
- Secure the clip.

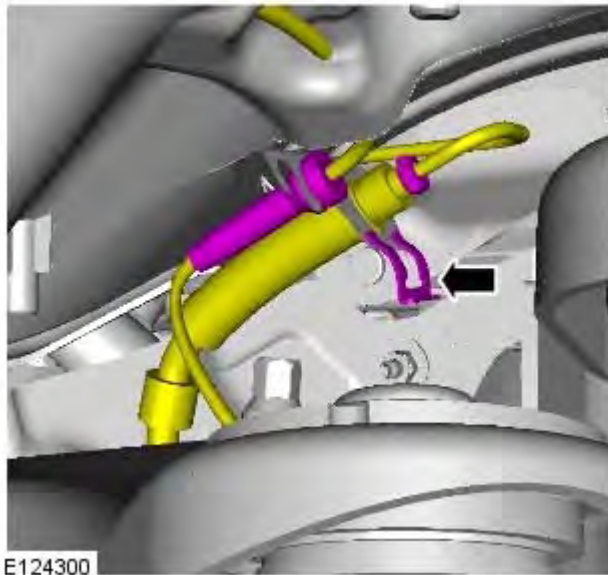


16. NOTE: Remove and discard the blanking caps.

TORQUE: 16 Nm

- Clean the component mating faces.
- Secure the clip.

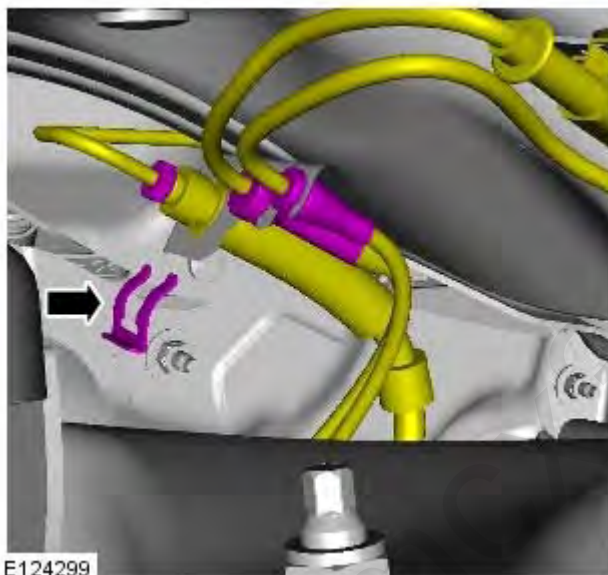




17. NOTE: Remove and discard the blanking caps.

TORQUE: 16 Nm

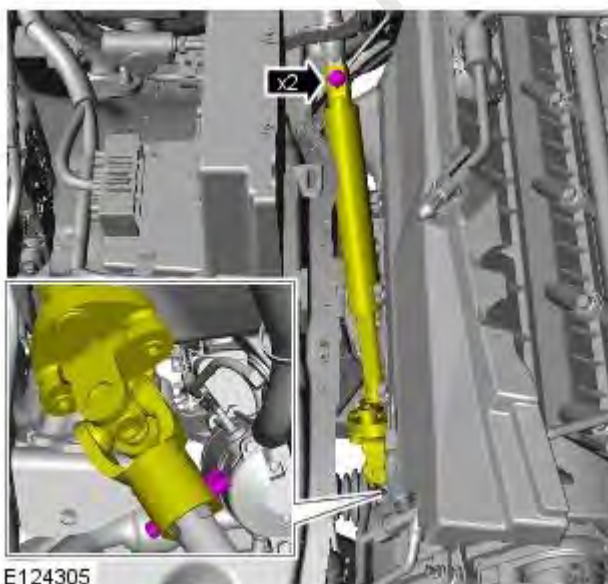
- Clean the component mating faces.
- Secure the clip.



18. NOTE: Remove and discard the blanking caps.

TORQUE: 16 Nm

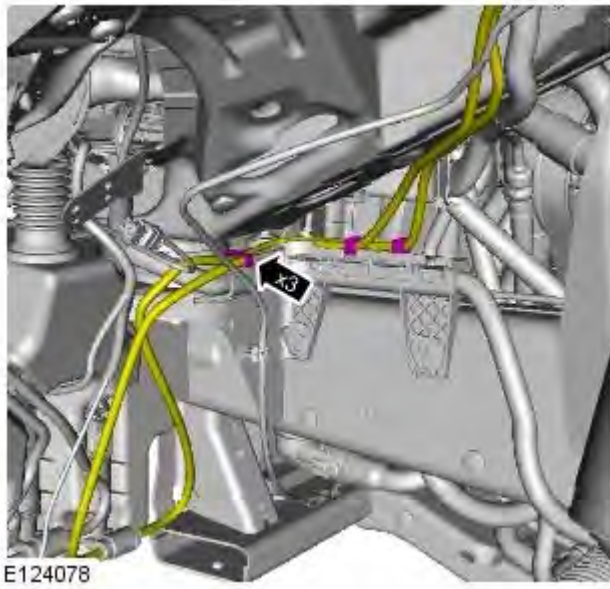
- Clean the component mating faces.
- Secure the clip.



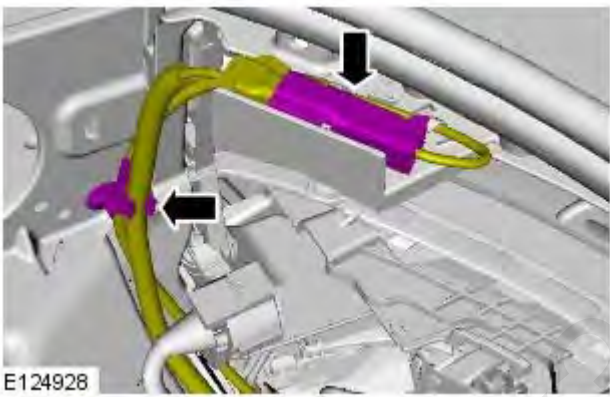
19.  WARNING: Make sure that a new bolt is installed.

TORQUE: 25 Nm

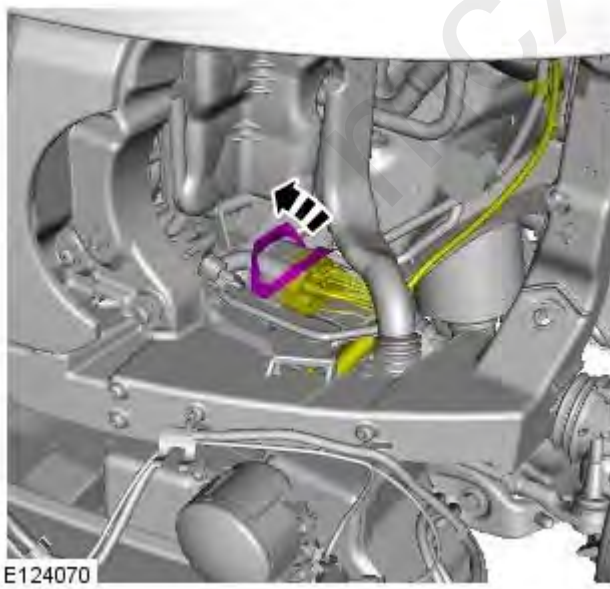
20.



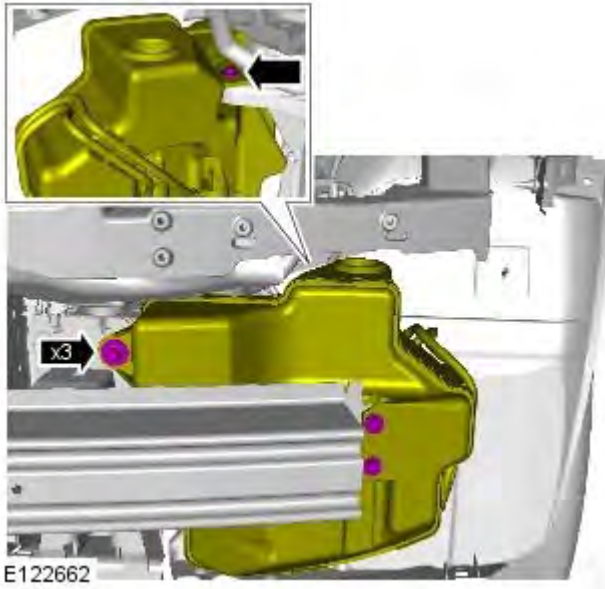
21.



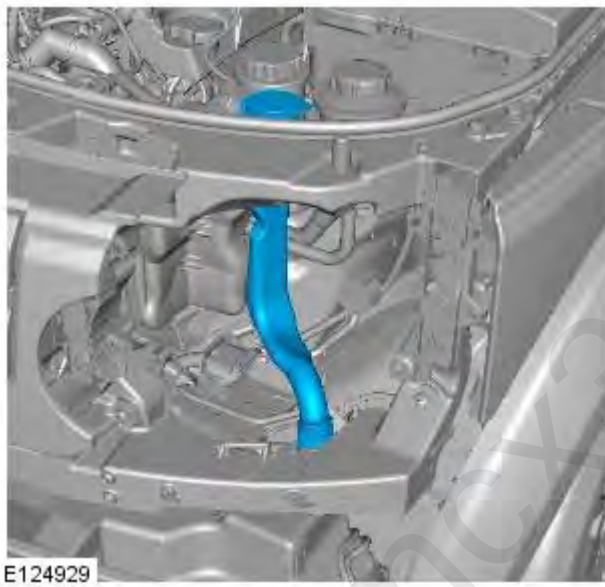
22.



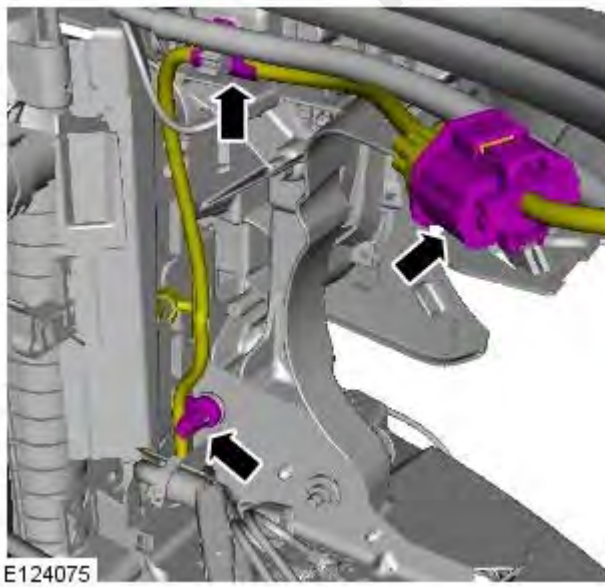
23. TORQUE: 12 Nm

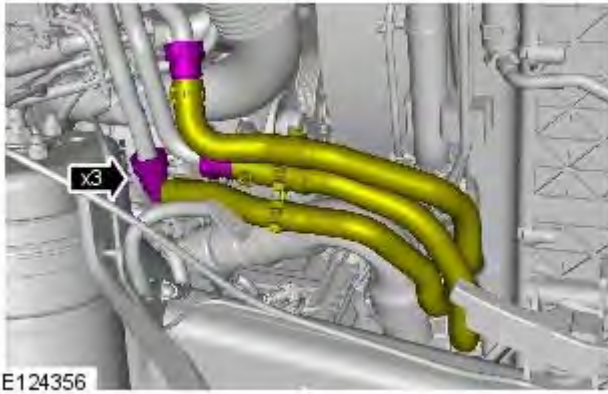


24.



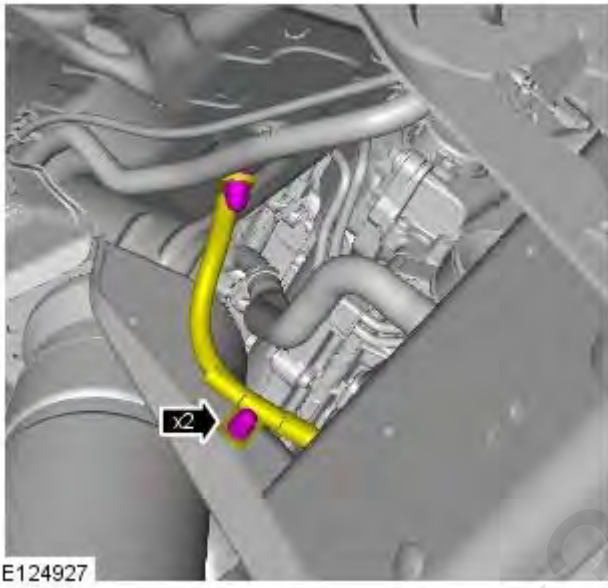
25.



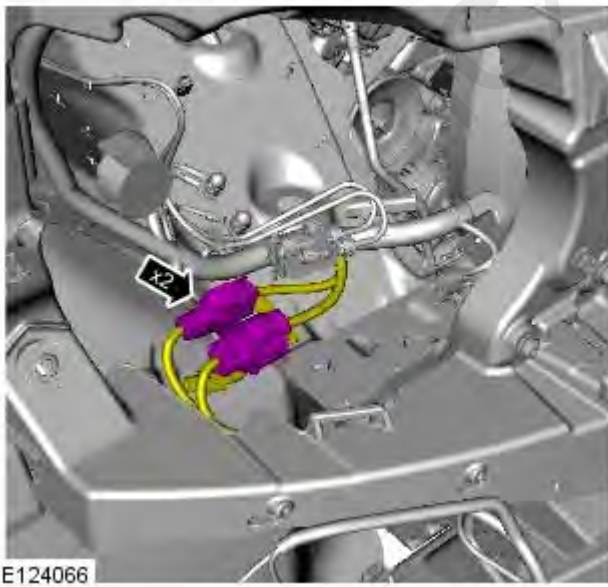


26.  CAUTION: Be prepared to collect escaping coolant.

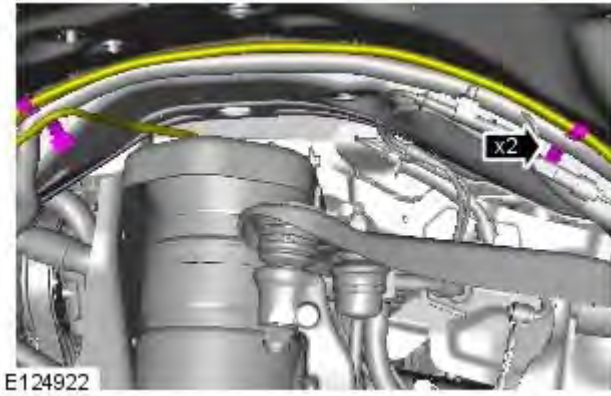
27. TORQUE: 20 Nm



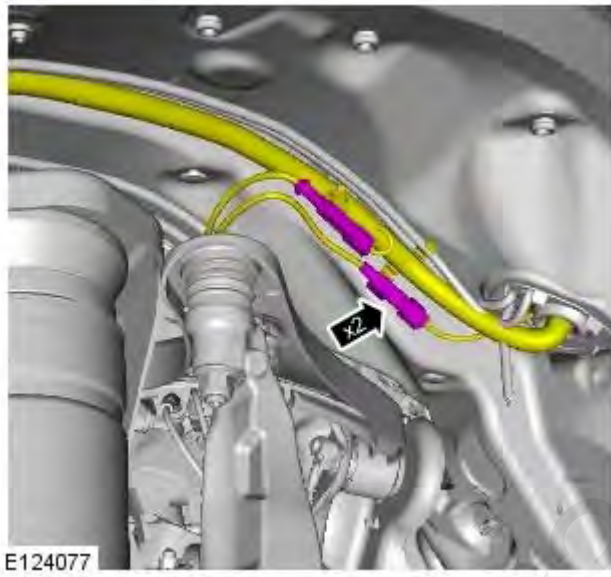
28.



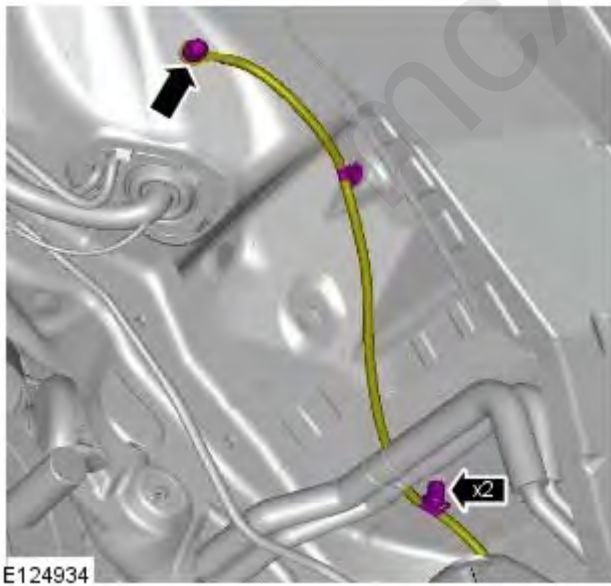
29.



30.

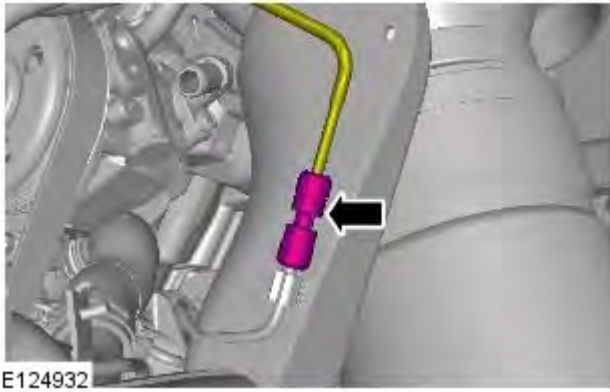


31. TORQUE: 20 Nm

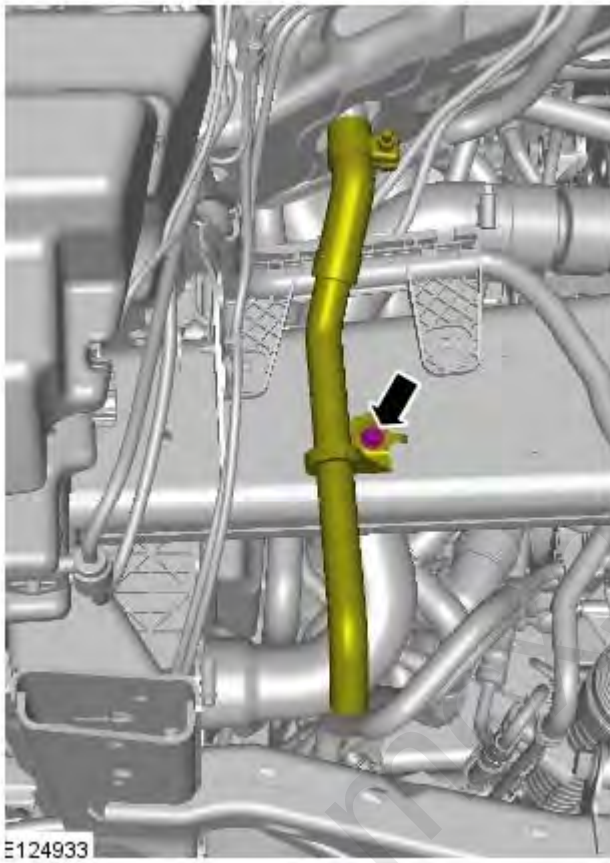


Vehicles with auxiliary heating

32.

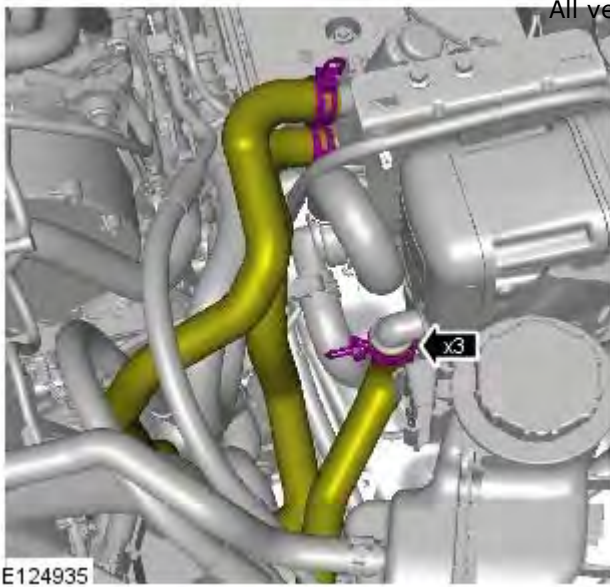


33. TORQUE: 10 Nm

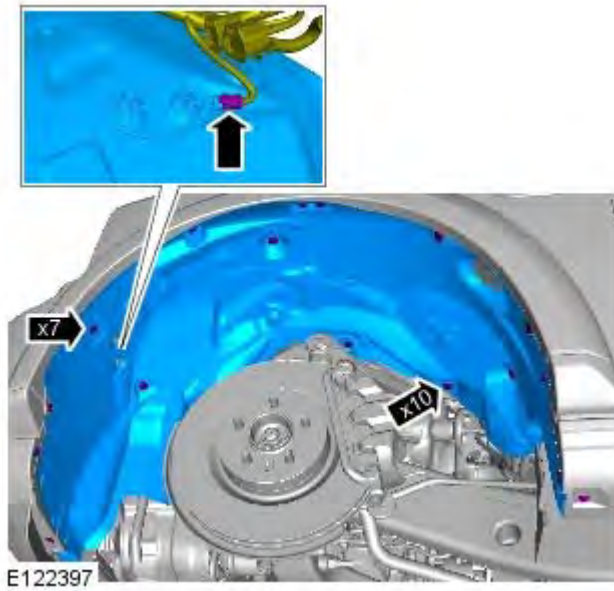


34.

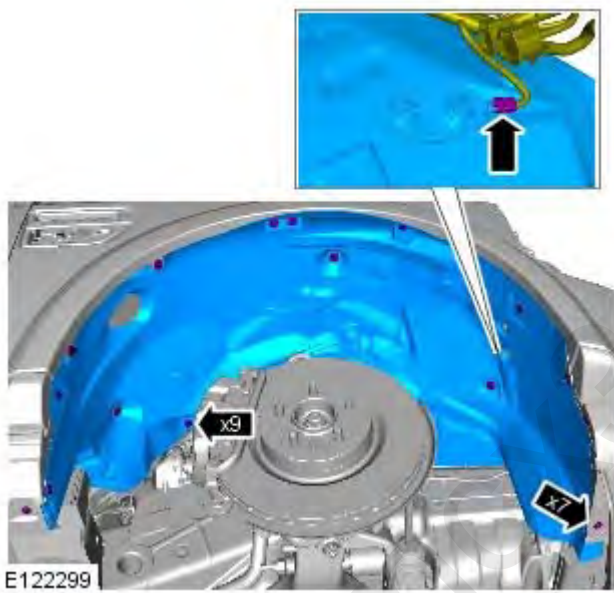
All vehicles



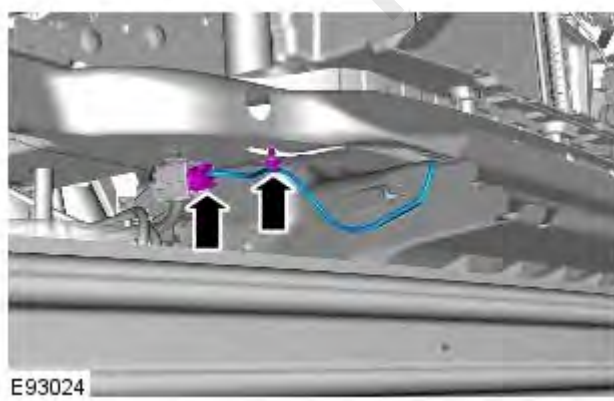
35.



36.

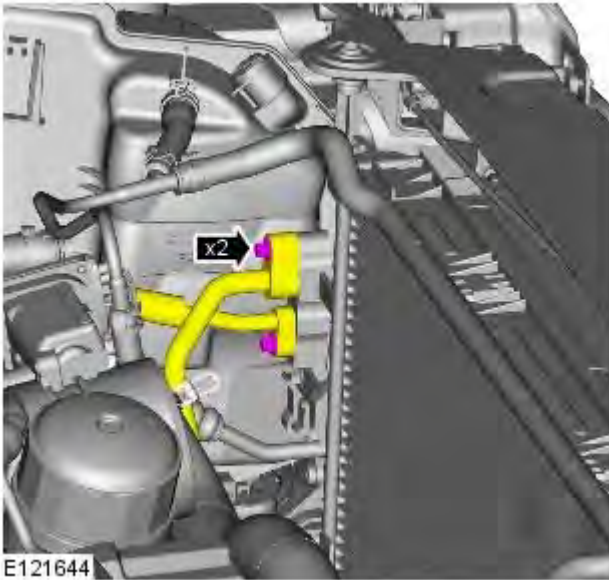


37.



38. TORQUE: 12 Nm

- Install new O-ring seals.

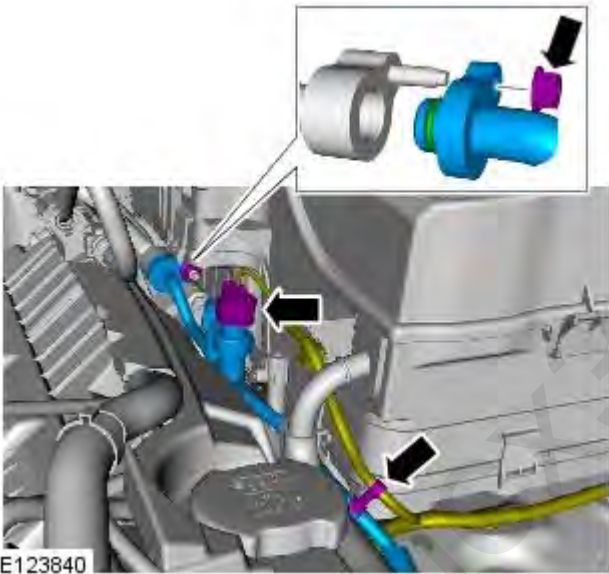


E121644

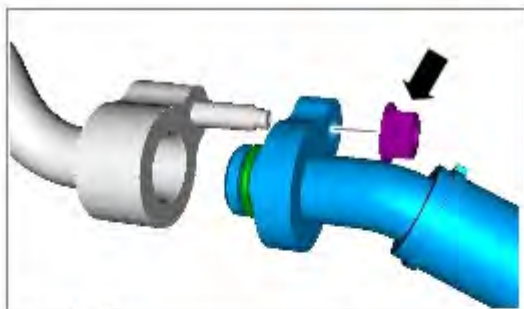
39. ⚠ CAUTION: Make sure that all openings are sealed.
Use new blanking caps.

TORQUE: 12 Nm

- Install new O-ring seals.



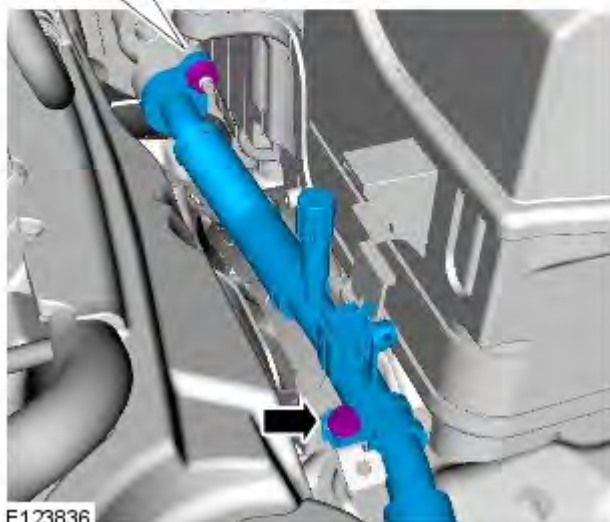
E123840



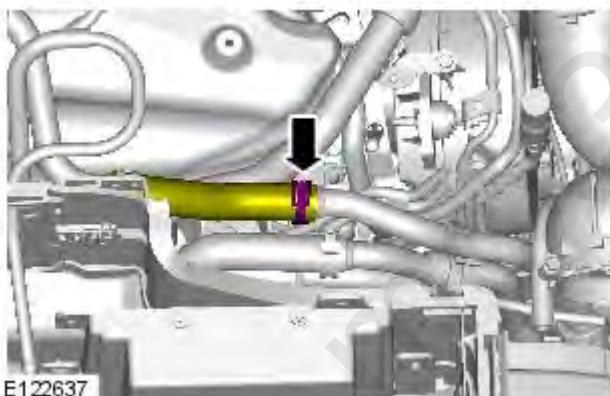
40.  **CAUTION:** Make sure that all openings are sealed. Use new blanking caps.

TORQUE: 12 Nm

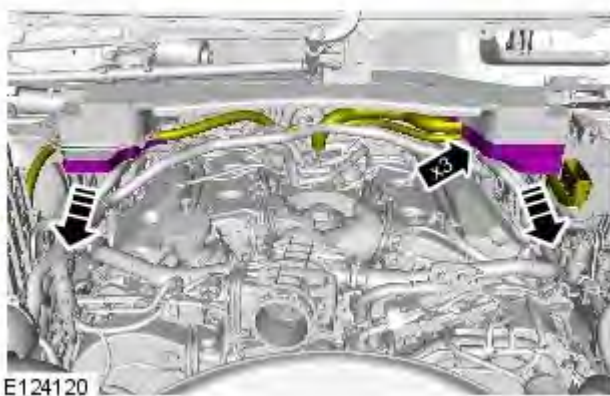
- Install new O-ring seals.



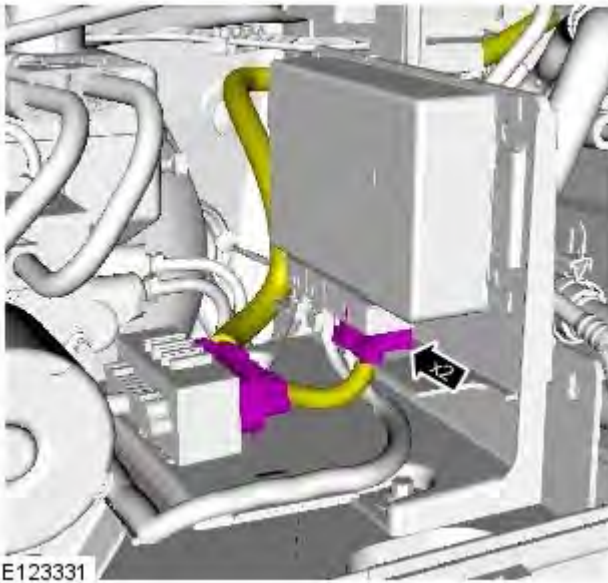
41.



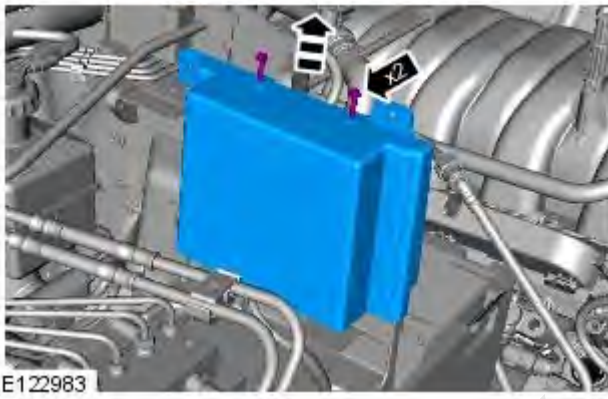
42.



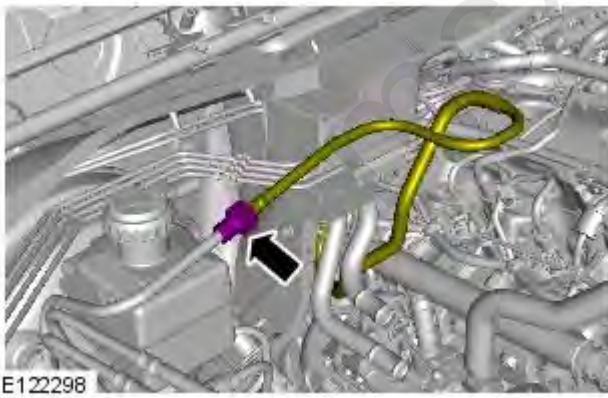
43.



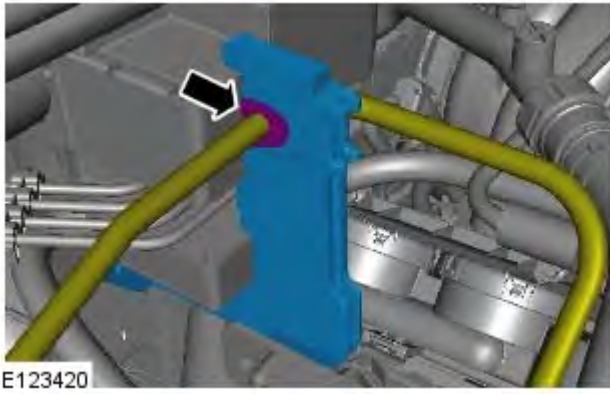
44. TORQUE: 8 Nm



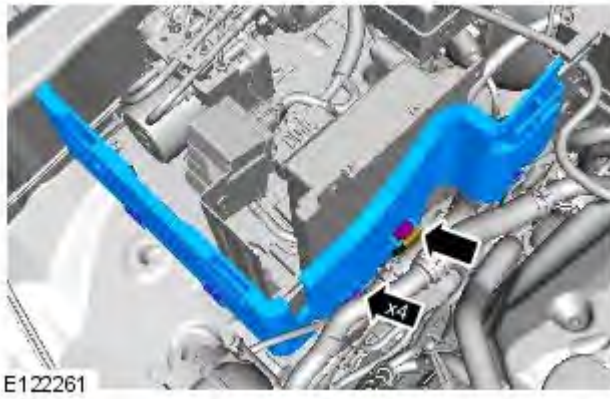
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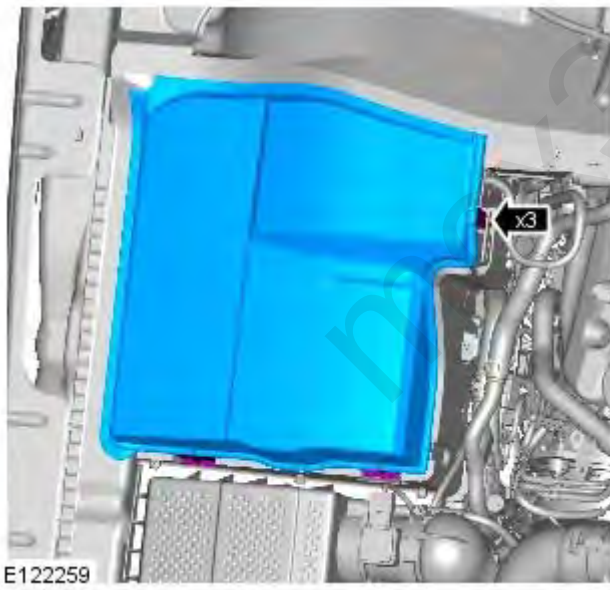
46.



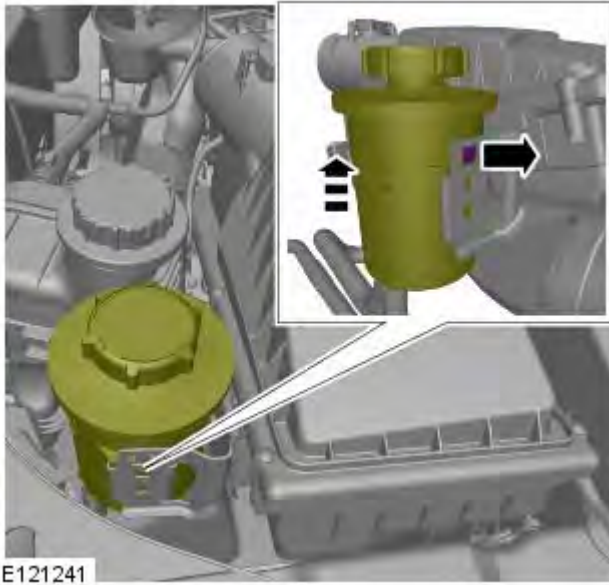
47. TORQUE: 10 Nm



48.

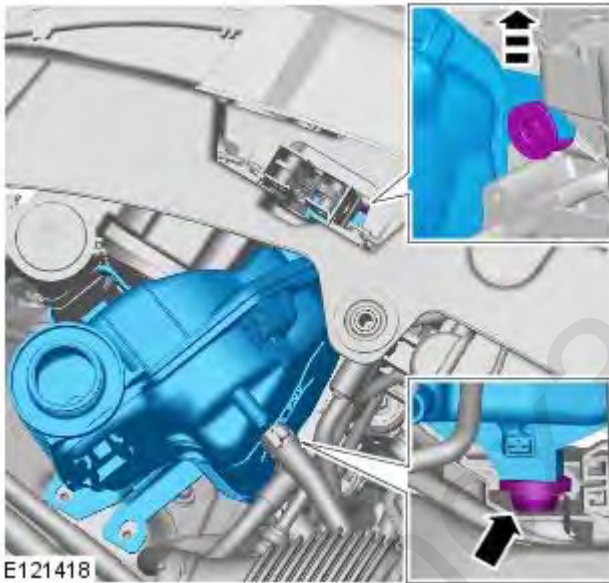


49.



E121241

50.  CAUTION: Be prepared to collect escaping coolant.



E121418

51.



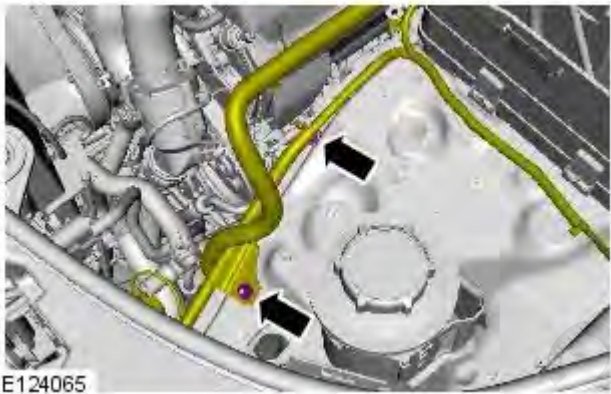
E121415

52.



E121419

53. TORQUE: 10 Nm



E124065

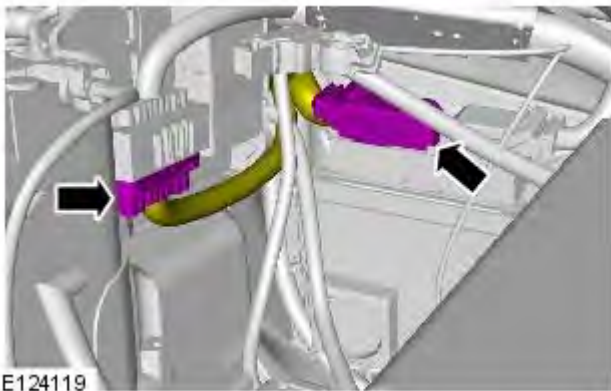
All vehicles

54. For additional information, refer to: Front Bumper Cover (501-19, Removal and Installation).

55. For additional information, refer to: Rear Bumper Cover (501-19, Removal and Installation).

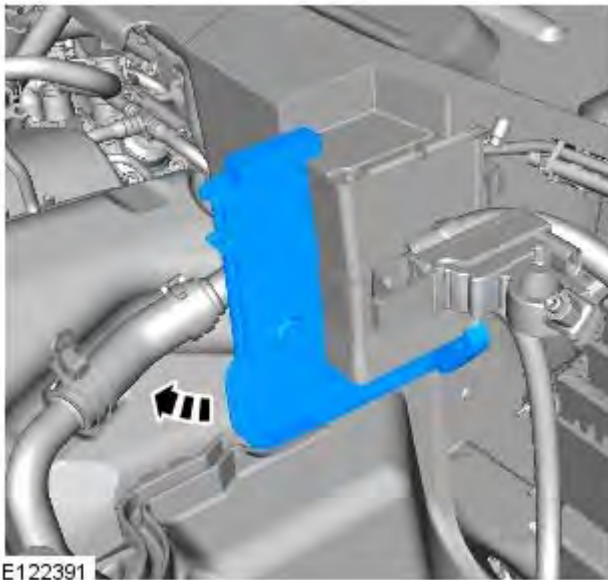
56. For additional information, refer to: Air Cleaner (303-12, Removal and Installation).

57.

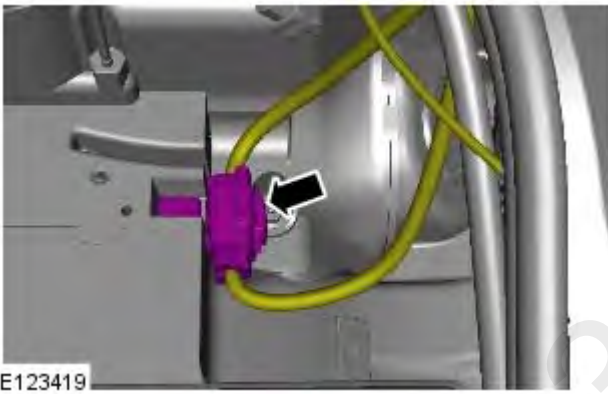


E124119

58.

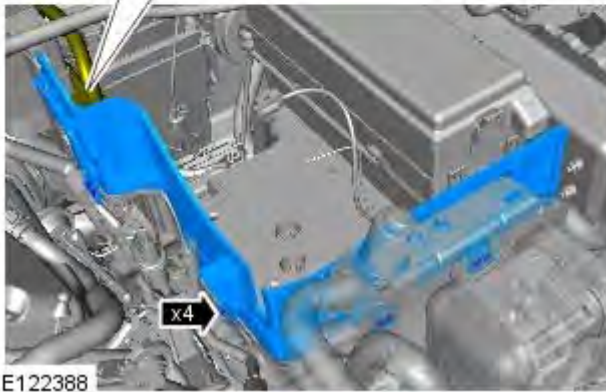
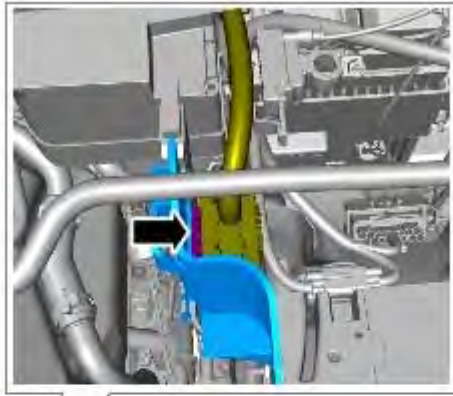


59.



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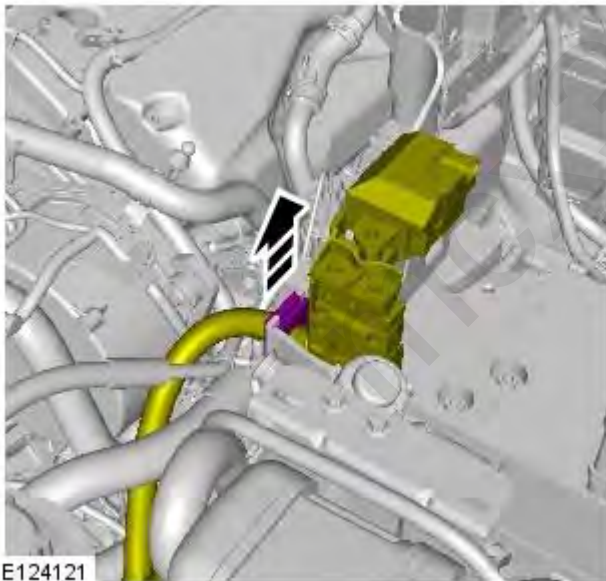
60. NOTE: RHD illustration shown, LHD is similar.



E122388

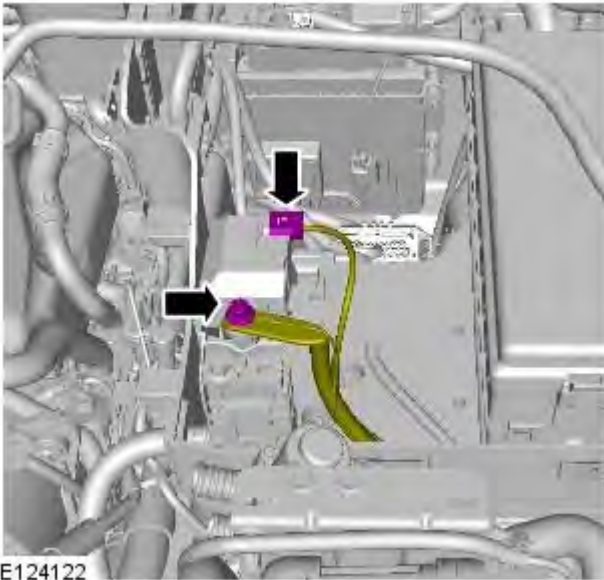
61.

- Cut the cable tie.



E124121

62. TORQUE: 10 Nm



- 63.** For additional information, refer to: Battery (414-01, Removal and Installation).
- 64.** For additional information, refer to: Air Conditioning (A/C) System Recovery, Evacuation and Charging (412-00, General Procedures).
- 65.** For additional information, refer to: Cooling System Draining, Filling and Bleeding (303-03, General Procedures).
- 66.** Bleed the braking system.
For additional information, refer to: Brake System Bleeding (206-00, General Procedures).