

2016.0 RANGE ROVER (LG), 502-00

UNI-BODY, SUBFRAME AND MOUNTING SYSTEM

# REAR SUBFRAME [G1717099]

REMOVAL AND INSTALLATION

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## SPECIAL TOOL(S)



**JLR-204-798**

Alignment Pins,  
Subframe

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## REMOVAL

### CAUTION:

Make sure that all openings are sealed. Use new blanking caps.

## NOTES:

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

1.

### CAUTION:

This step must be carried out in order to maintain the correct air suspension compressor/dryer performance.

Using the approved diagnostic equipment, depressurize the rear springs.

Refer to: [Air Suspension System Depressurize and Pressurize](#) (204-05 Vehicle Dynamic Suspension, General Procedures).

2. Disconnect the battery ground cable.

Refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).

3. Raise and support the vehicle.

4. Remove the rear wheels and tires.

Refer to: [Wheel and Tire - GTDi 2.0L Petrol/TDV6 3.0L Diesel /TDV8 4.4L Diesel/V6 S/C 3.0L Petrol /V8 N/A 5.0L Petrol/V8 S/C 5.0L Petrol](#) (204-04 Wheels and Tires, Removal and Installation).

Refer to: [Wheel and Tire - SDV6 3.0L Diesel - Hybrid Electric Vehicle](#) (204-04 Wheels and Tires, Removal and Installation).

5. Refer to: [Rear Driveshaft - TDV6 3.0L Diesel](#) (205-01, Removal and Installation).

Refer to: [Rear Driveshaft - V6 S/C 3.0L Petrol /V8 S/C 5.0L Petrol](#) (205-01, Removal and Installation).

Refer to: Rear Driveshaft - SDV6 3.0L Diesel - Hybrid Electric Vehicle (205-01, Removal and Installation).

Refer to: Rear Driveshaft - TDV8 4.4L Diesel (205-01, Removal and Installation).

Refer to: Front Driveshaft - GTDi 2.0L Petrol (205-01, Removal and Installation).

6.

**WARNING:**

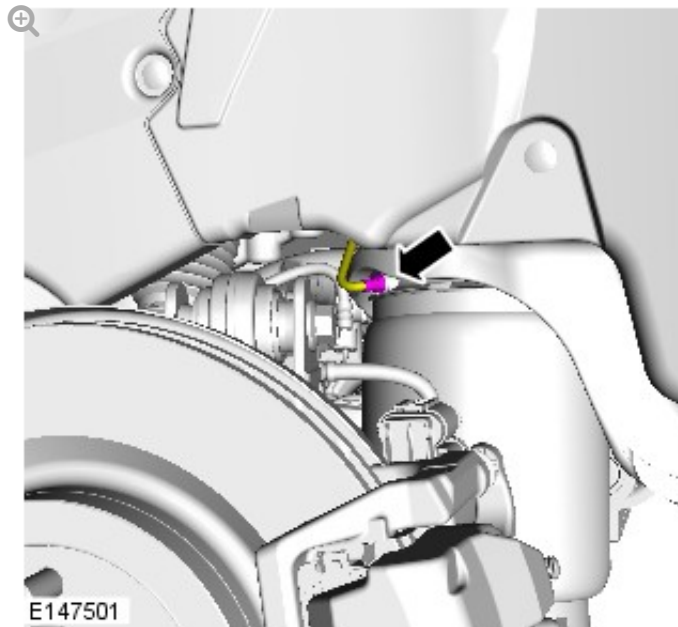
A small amount of air maybe released when removing the air line connector.

**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.

**NOTES:**

- LH illustration shown, RH is similar.
- Discard the air line connector.
- Repeat the procedure for the other side.



7.

**WARNING:**

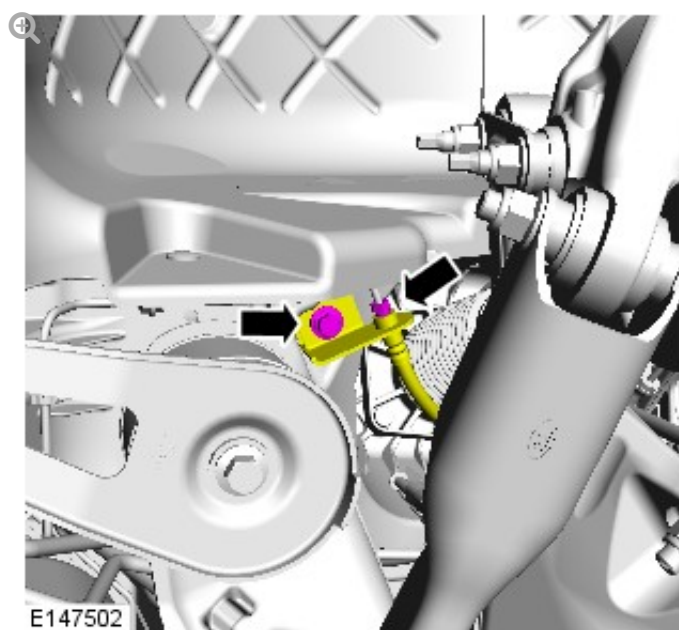
Be prepared to catch escaping fluid.

**CAUTION:**

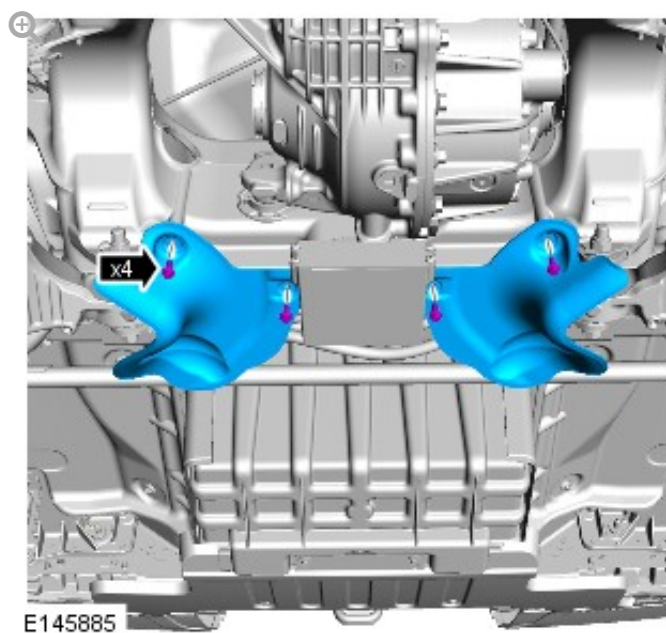
Brake fluid will damage paint finished surfaces. If spilled, immediately remove the fluid and clean the area with water.

**NOTES:**

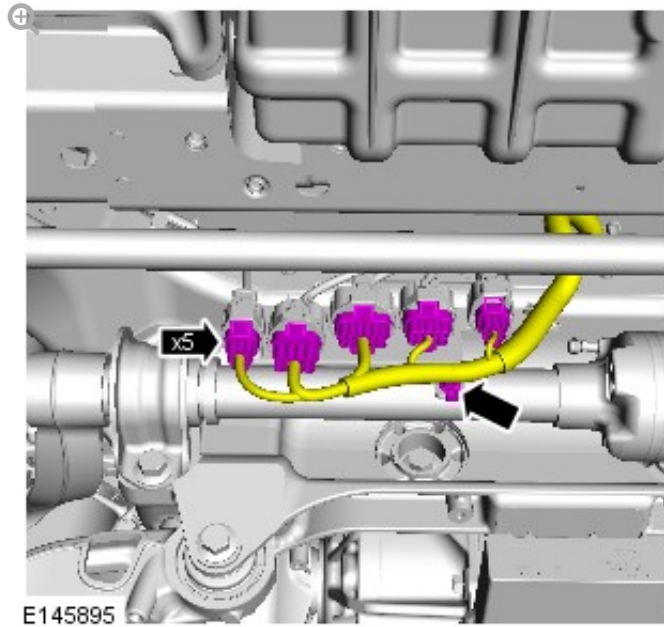
- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



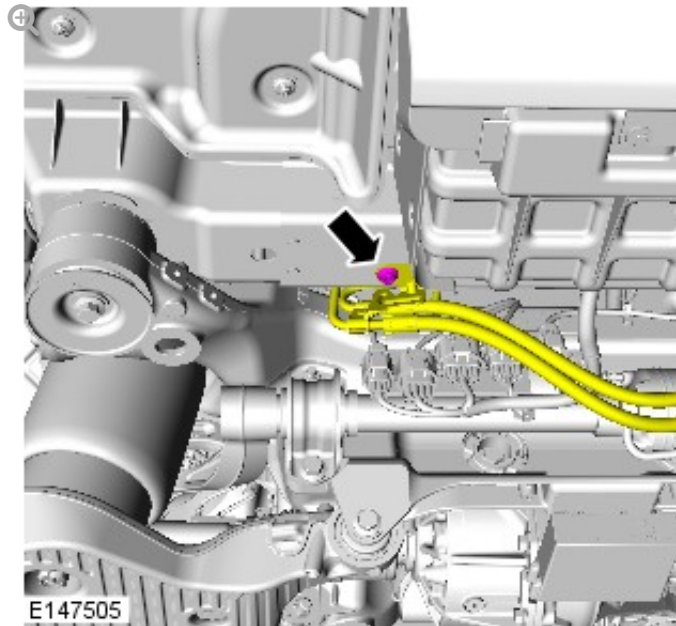
8.



9.



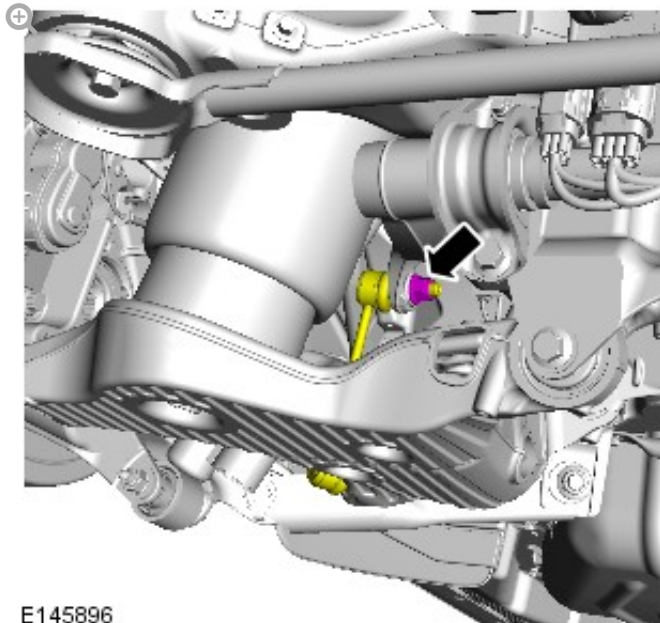
10.



11.

#### NOTES:

- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



E145896

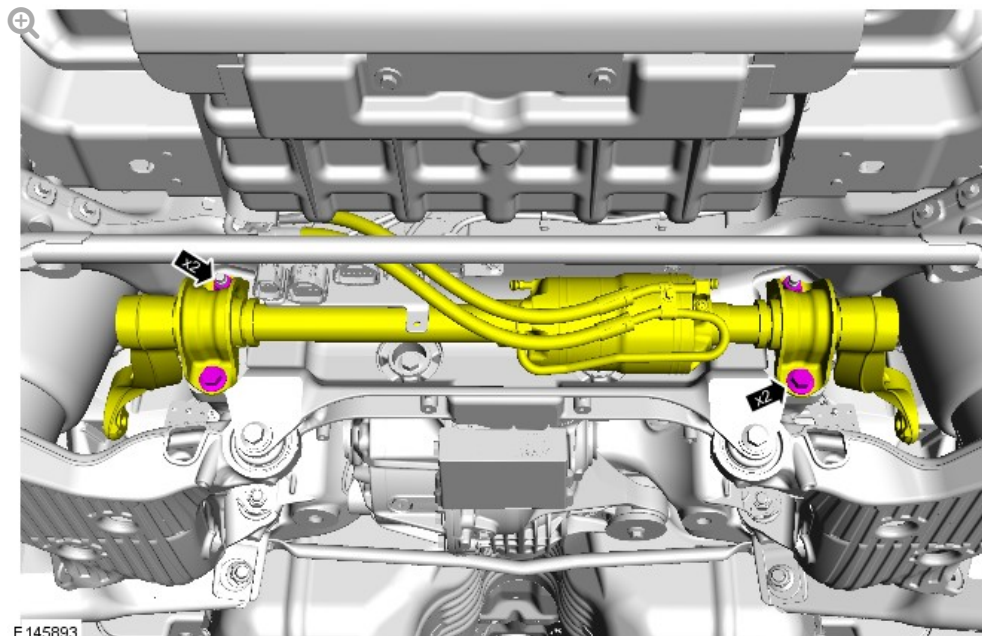
12.

**CAUTION:**

Make sure that the component is not suspended by the fluid hoses.

**NOTE:**

If equipped.



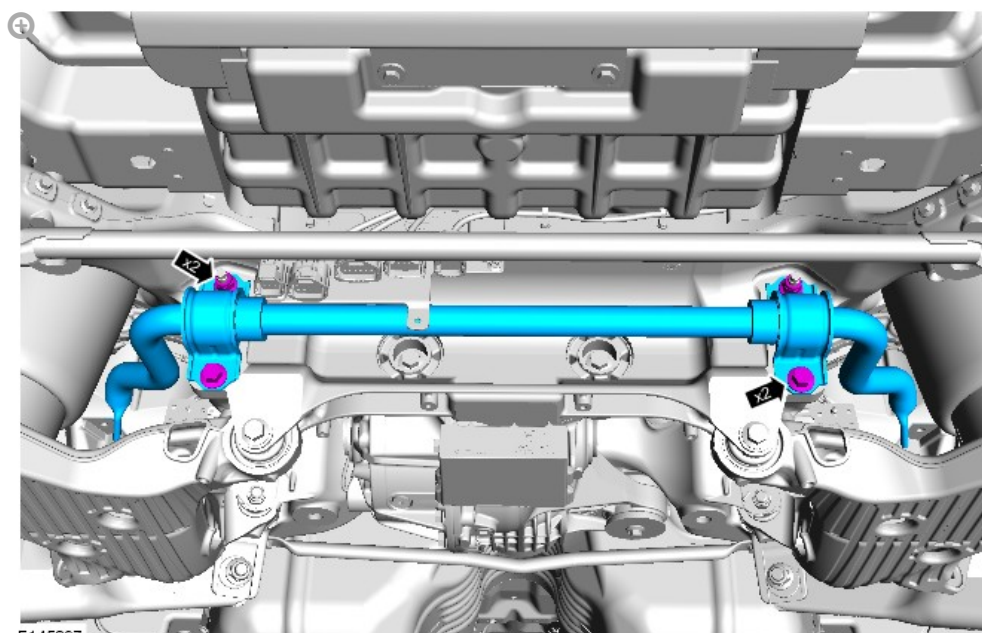
E145893

Tie aside.

13.

# **NOTE:**

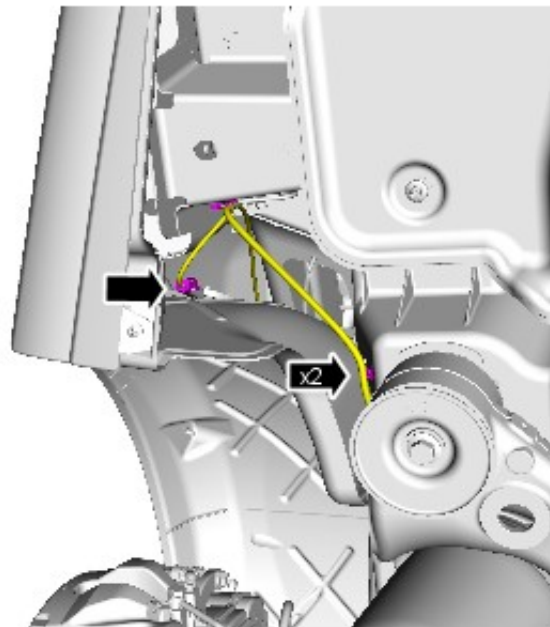
If equipped.



E145897



14.



E147503

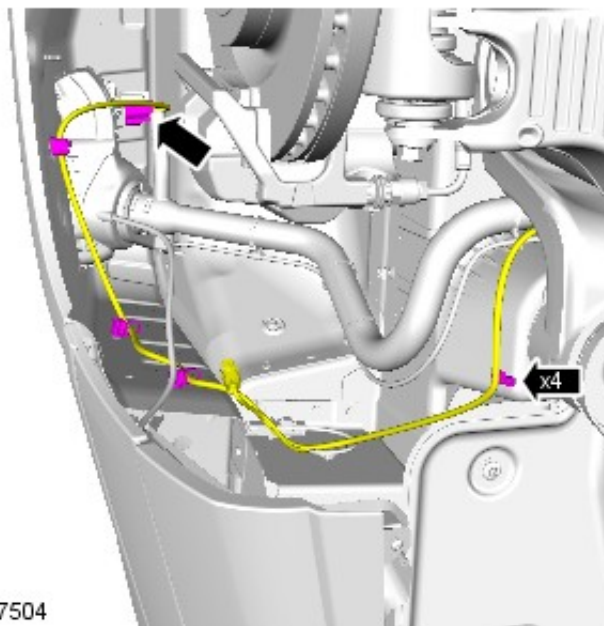
15.

**NOTE:**

RH side only.

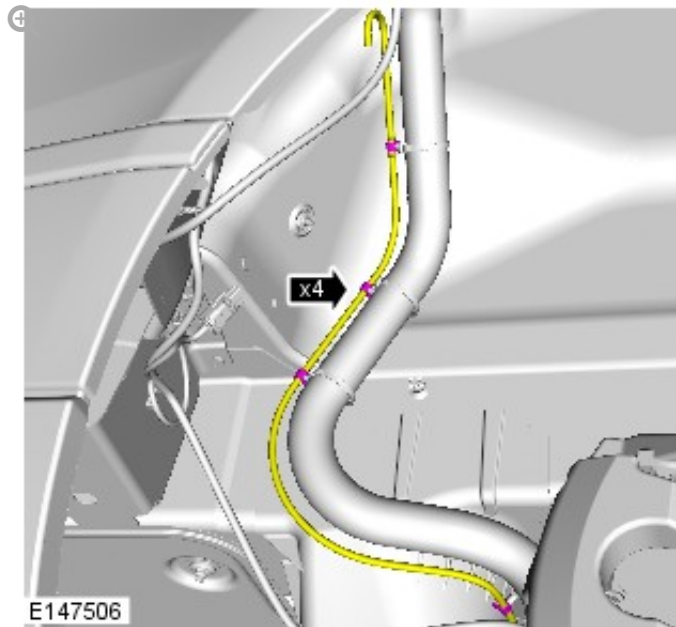
Refer to: [Rear Wheel Arch Liner](#) (501-08 Exterior Trim and Ornamentation, Removal and Installation).

16.



E147504

17.



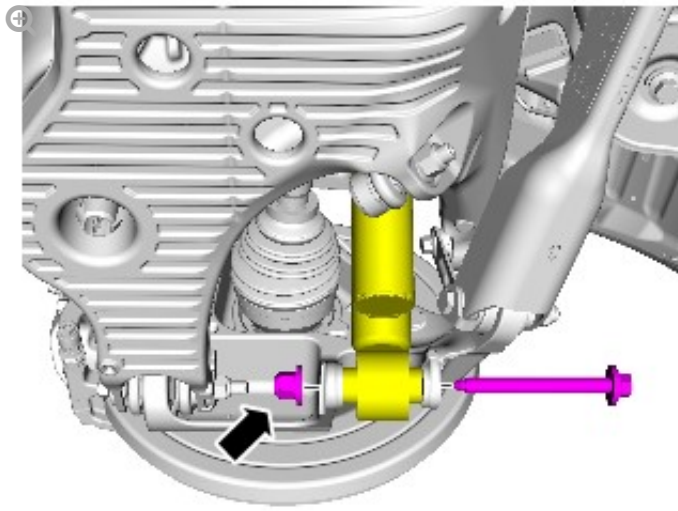
18.

**CAUTION:**

Discard the nut and bolt.

**NOTES:**

- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



E147507

19.

**NOTE:**

Repeat the procedure for the other side.

Refer to: [Rear Rocker Panel Moulding - Standard Wheel Base](#) (501-08 Exterior Trim and Ornamentation, Removal and Installation).

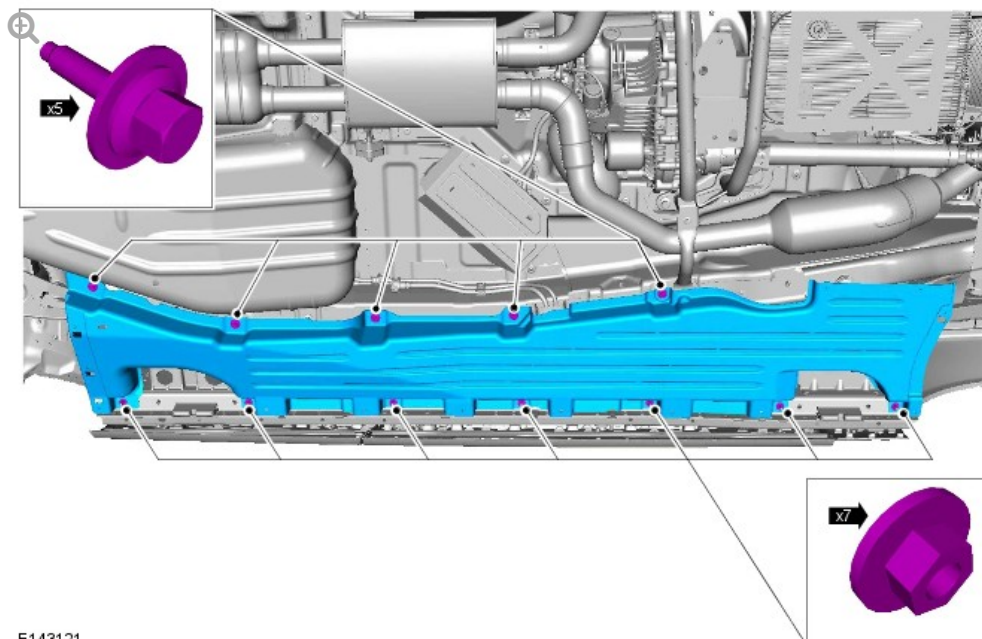
20.

**CAUTION:**

LH illustration shown, RH is similar.

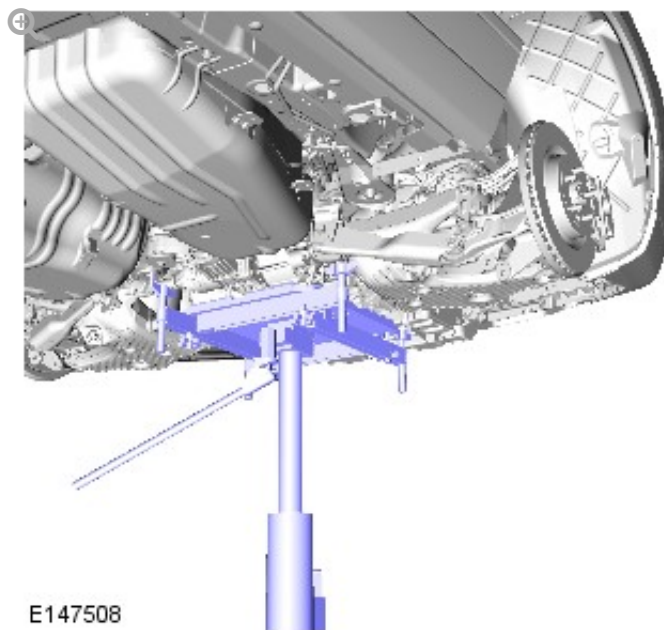
**NOTE:**

Repeat the procedure for the other side.



E143121

21.

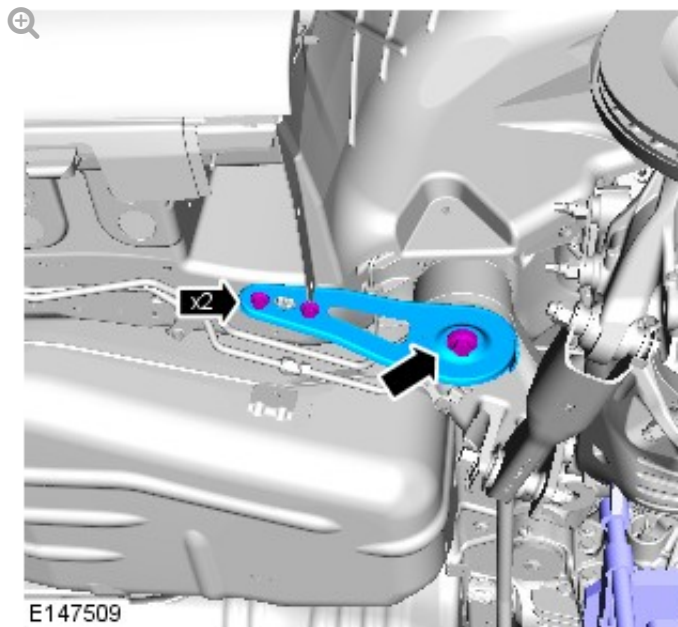


E147508

22.

### NOTES:

- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



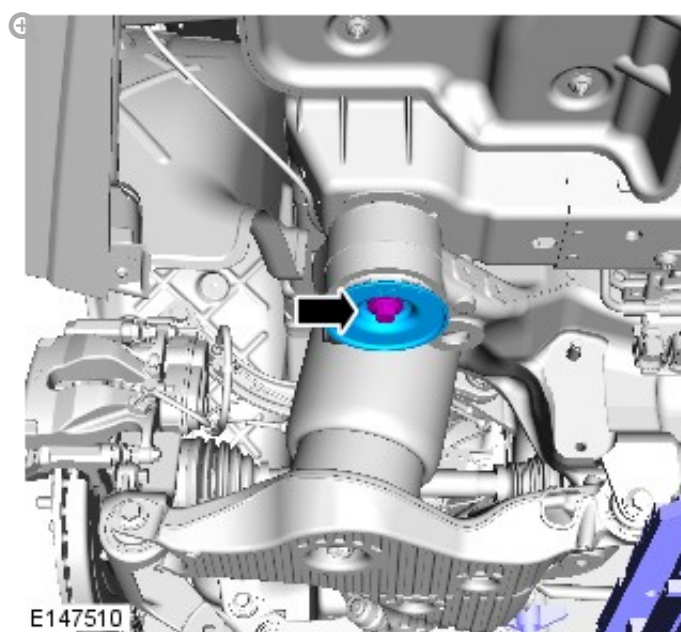
23.

**CAUTION:**

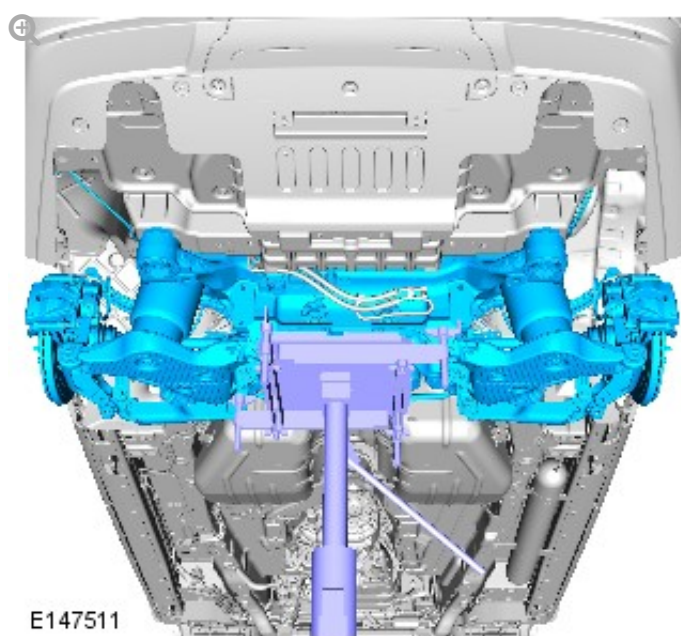
Discard the bolts.

**NOTES:**

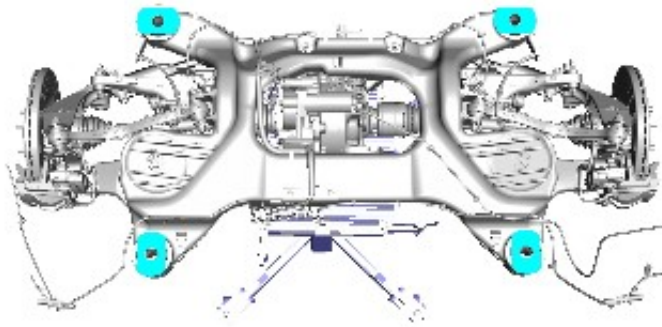
- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



24.



25.

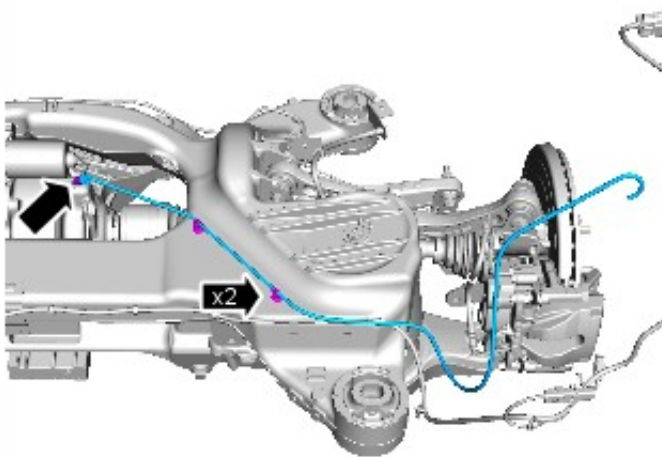


E147512

26.

**NOTE:**

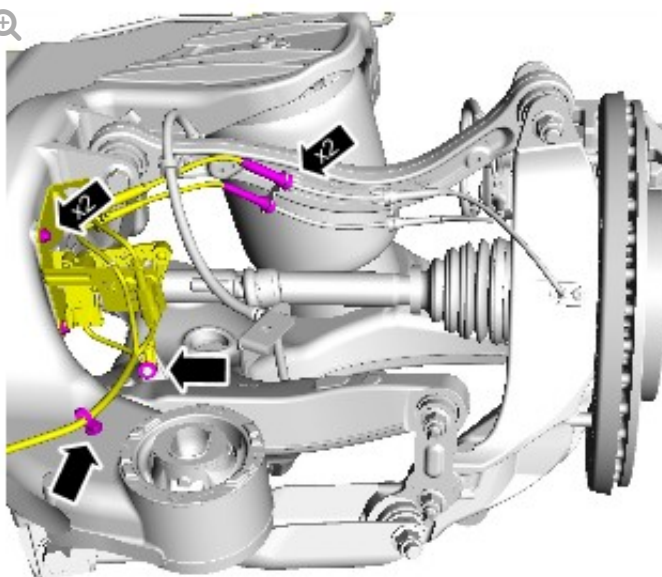
Do not disassemble further if the component is removed for access only.



E147513

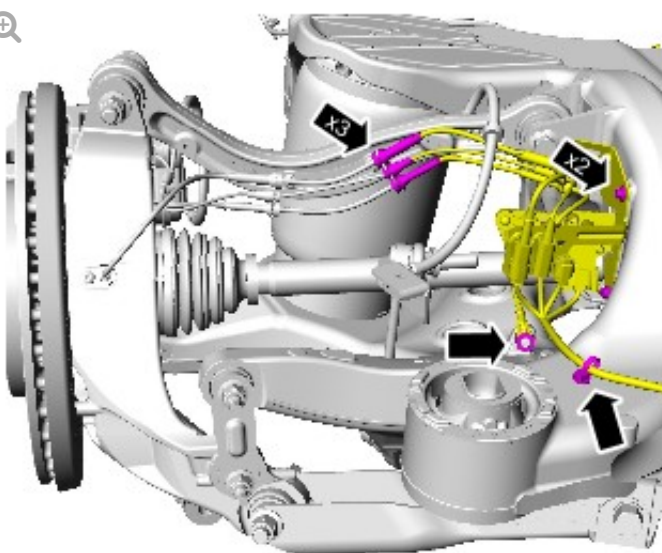


27.



E147514

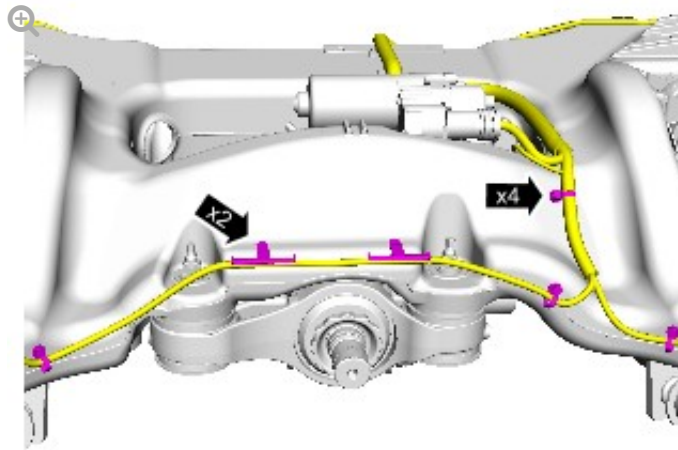
28.



E147515



29.

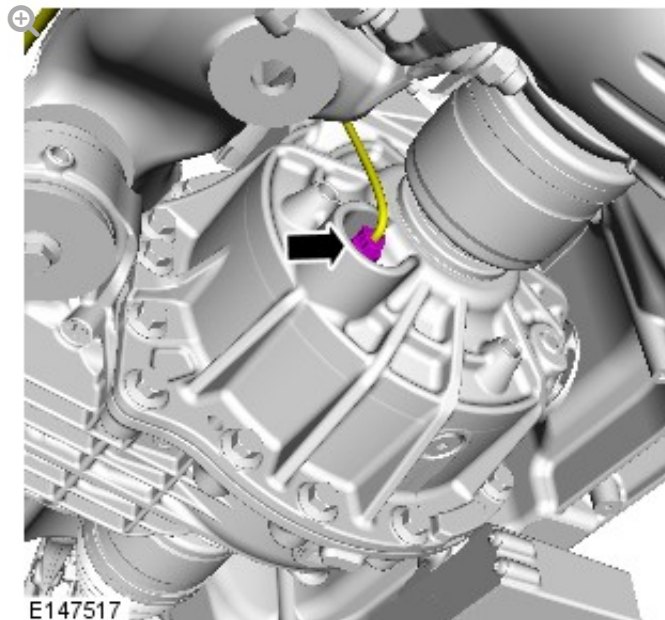


E147516

30.

**NOTE:**

If equipped.

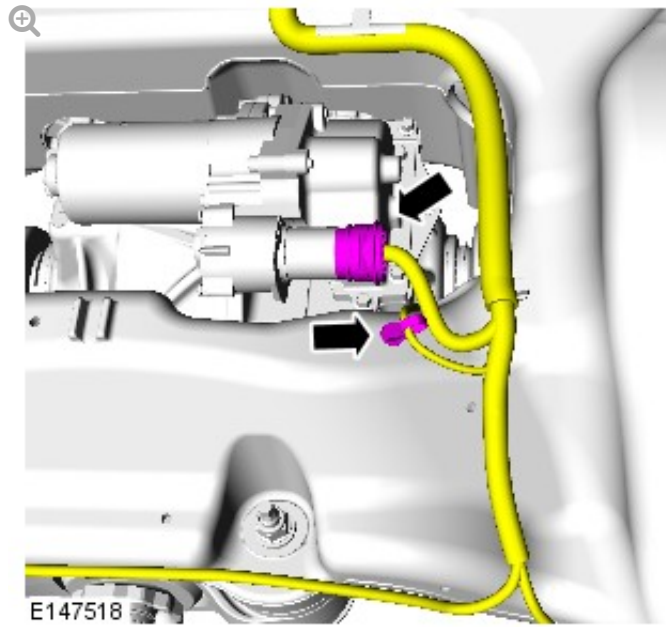


E147517

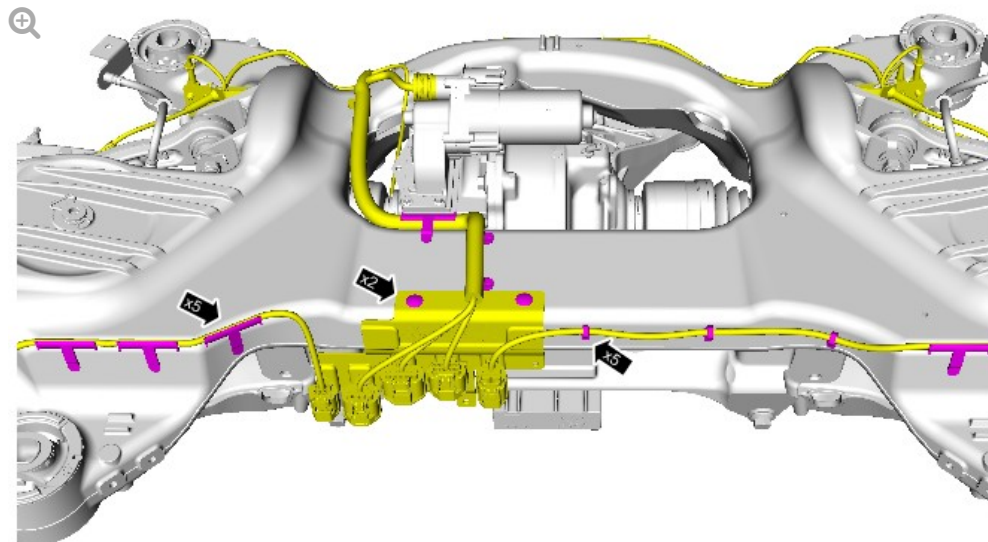
31.

**NOTE:**

If equipped.



32.

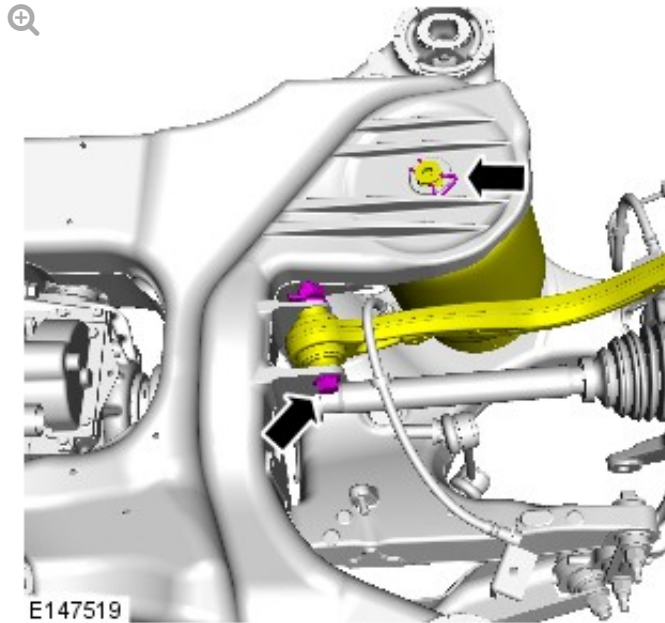


E147533

33.

### NOTES:

- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



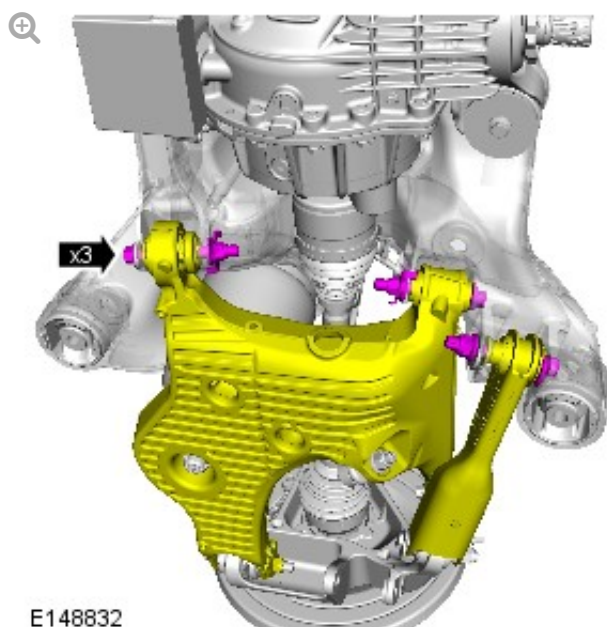
34.

### CAUTIONS:

- Discard the lower control arm front retaining nut and bolt.
- Discard the lower control arm rear retaining nut and bolt.

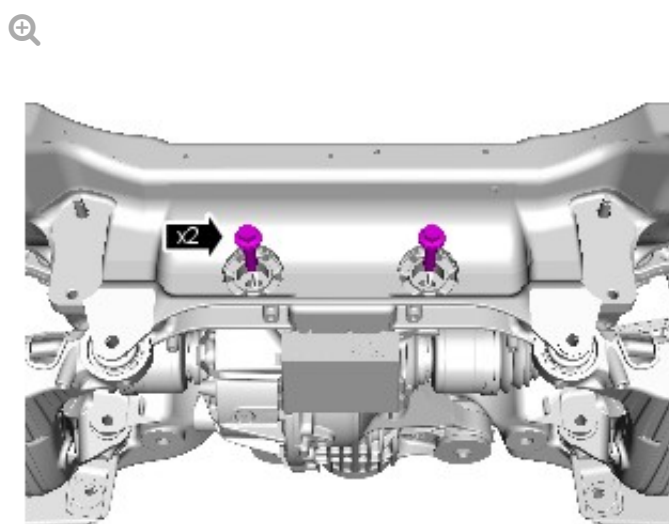
### NOTES:

- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



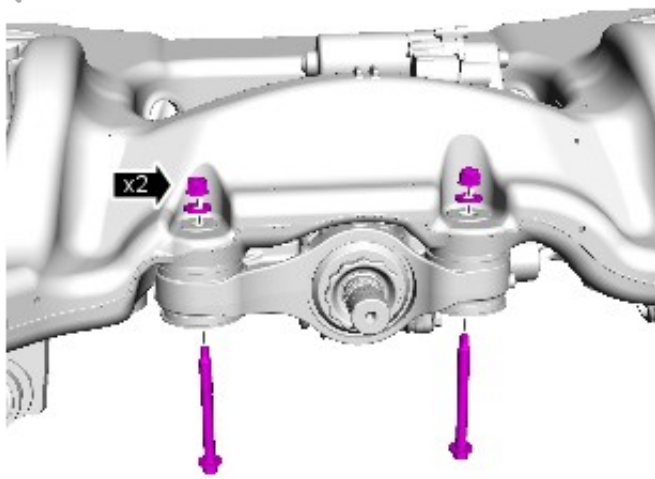
E148832

35.



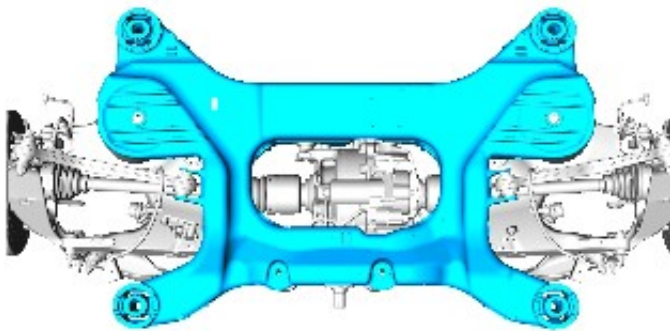
E147521

36.



E147522

37.

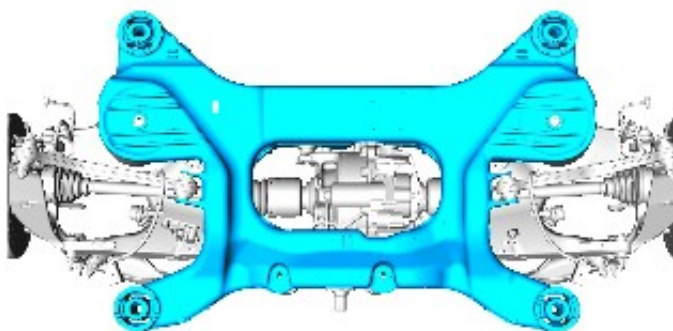


E147523

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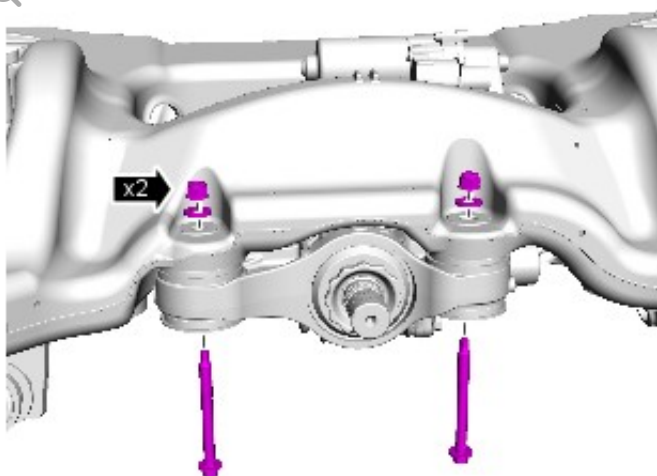
## INSTALLATION

1.



E147523

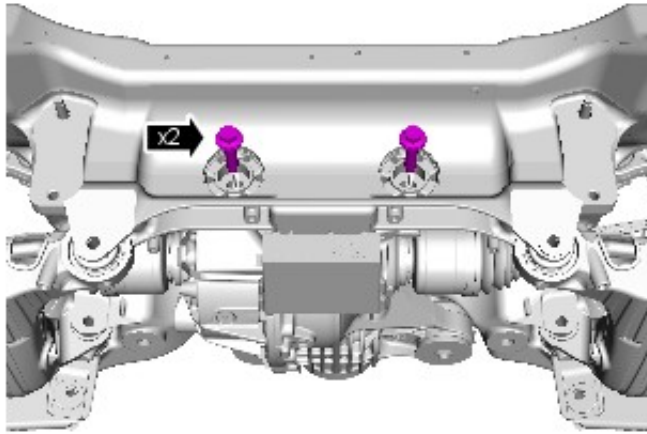
2.



E147522

*Torque: 110 Nm*

3.



E147521

*Torque: 170 Nm*

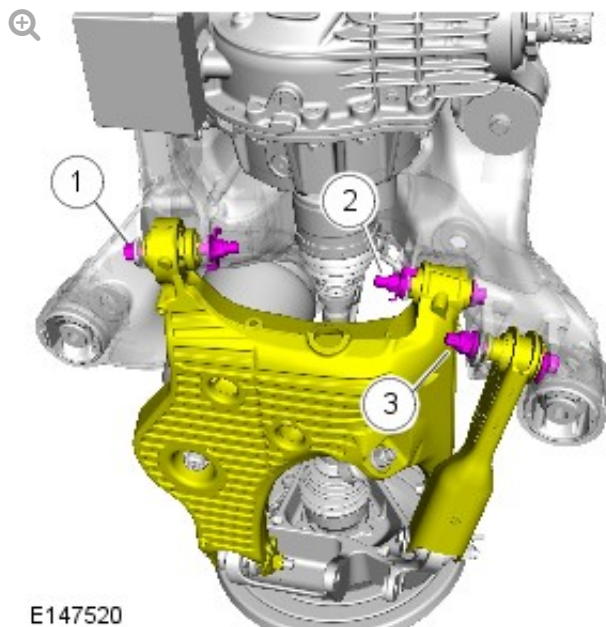
4.

#### CAUTIONS:

- Only tighten the nuts and bolts when the suspension is in the normal drive position.
- Make sure that a new lower control arm front retaining nut and bolt is installed.
- Make sure that a new lower control arm rear retaining nut and bolt is installed.

#### NOTES:

- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



E147520

*Torque:*

1

Stage 1: 100 Nm

Stage 2: 240°

2

Stage 1: 100 Nm

Stage 2: 240°

3

Stage 1: 40 Nm

Stage 2: 60°

5.

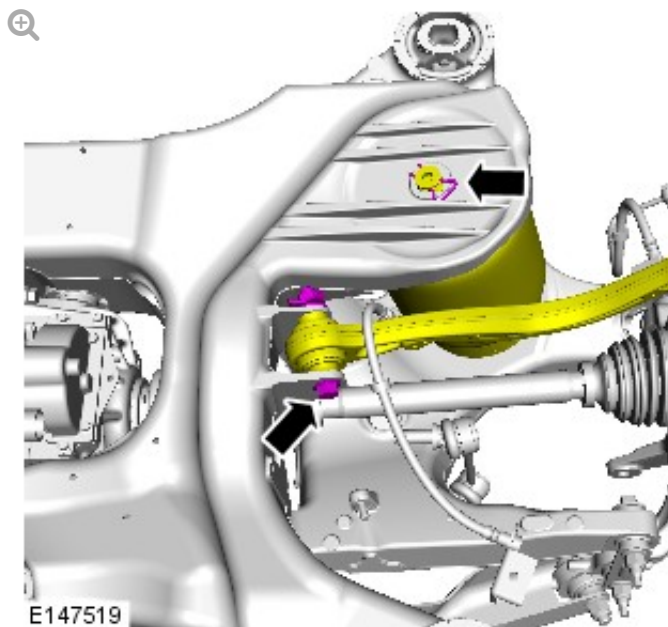
**CAUTION:**

Only tighten the nuts and bolts when the suspension is in the normal drive position.

**NOTES:**

- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



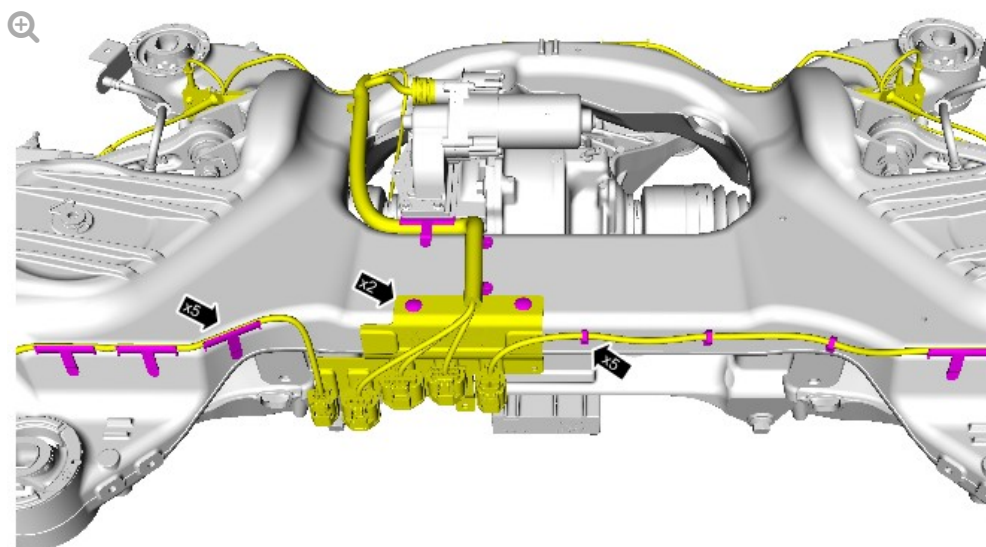


*Torque:*

Stage 1: 50 Nm

Stage 2: 60°

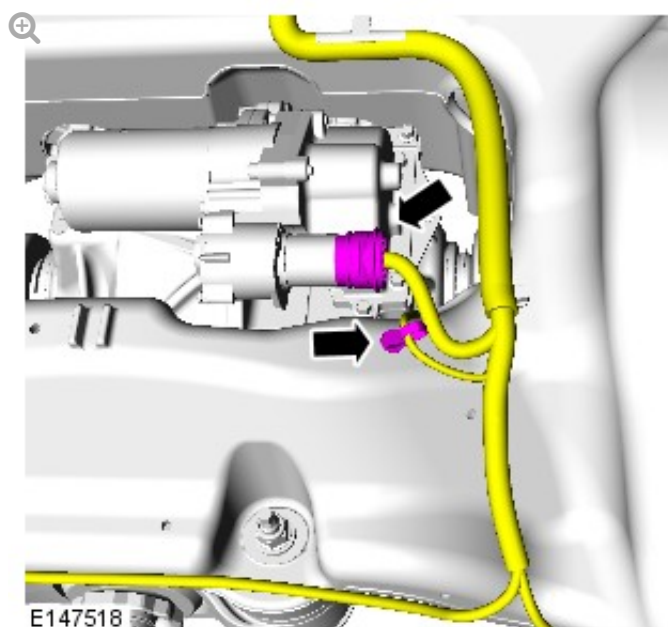
6.



7.

**NOTE:**

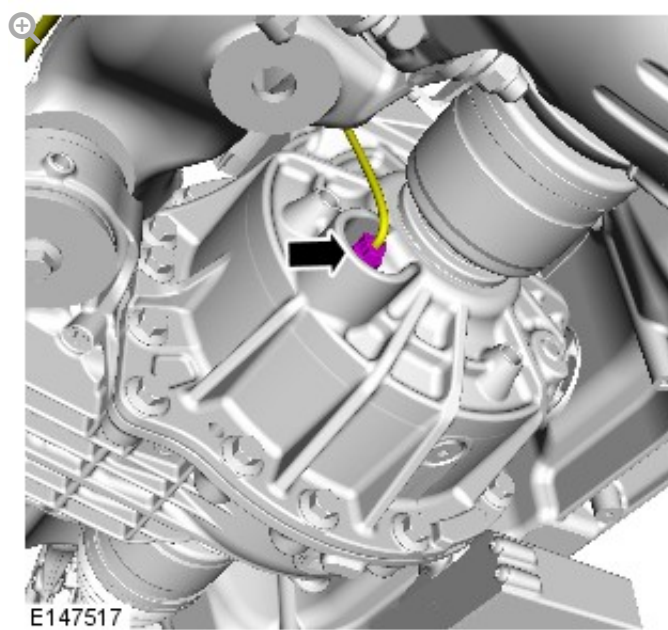
If equipped.



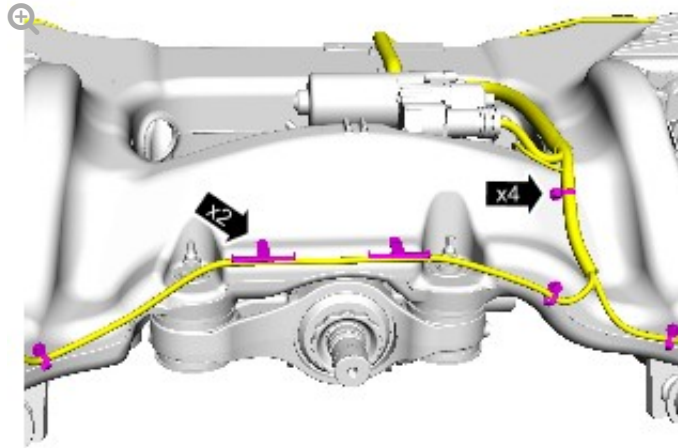
8.

**NOTE:**

If equipped.

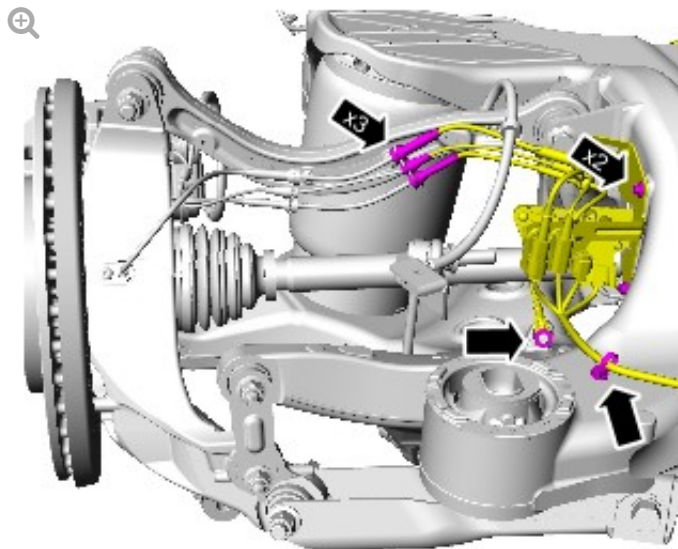


9.



E147516

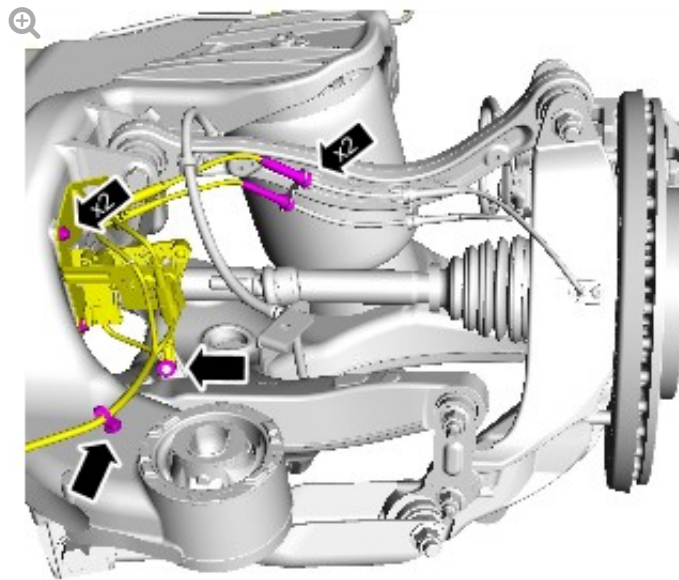
10.



E147515

*Torque: 10 Nm*

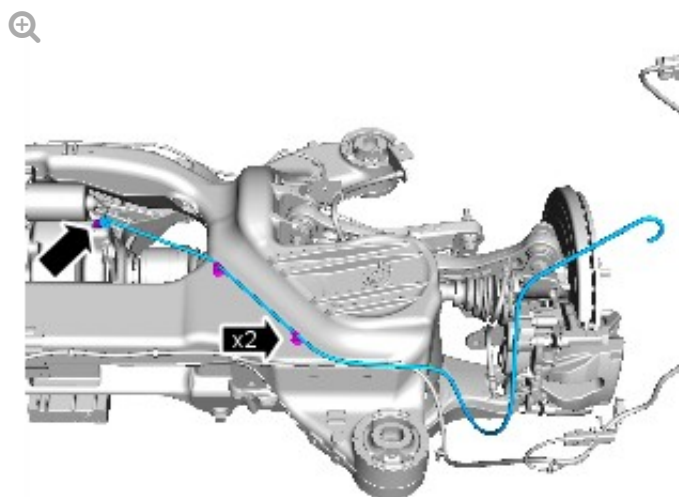
11.



E147514

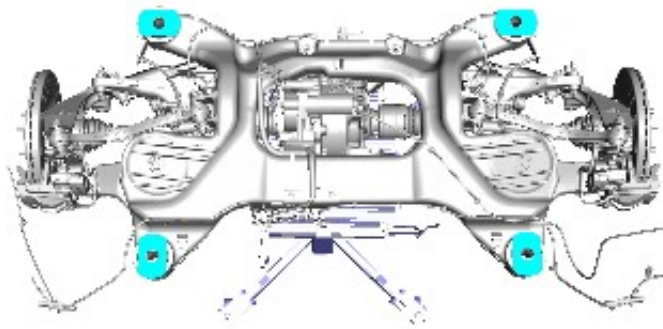
*Torque: 10 Nm*

12.



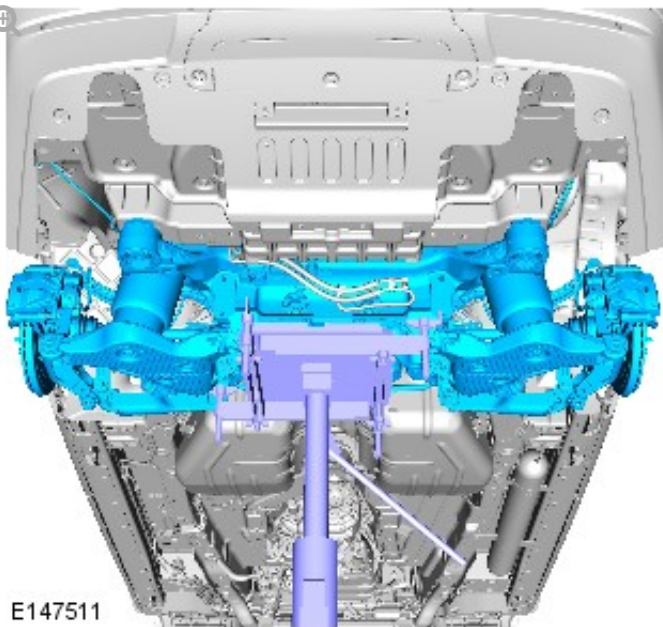
E147513

13.



E147512

14.



E147511

15.

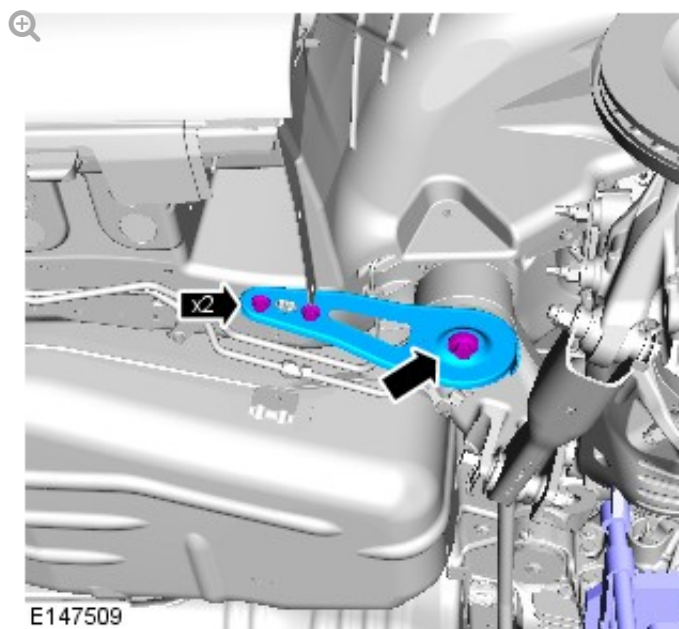
### CAUTION:

Only tighten the bolts finger-tight at this stage.

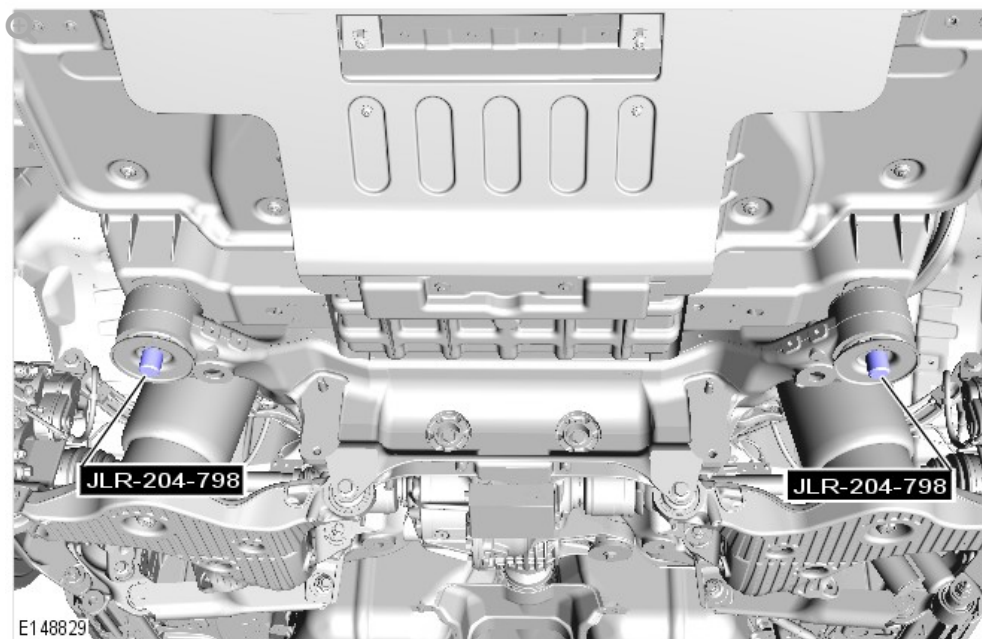


## NOTES:

- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



16.

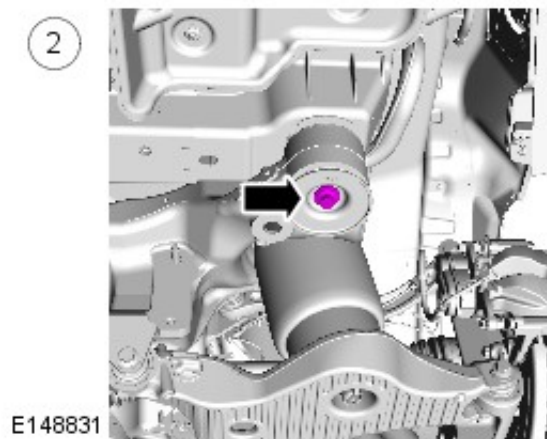
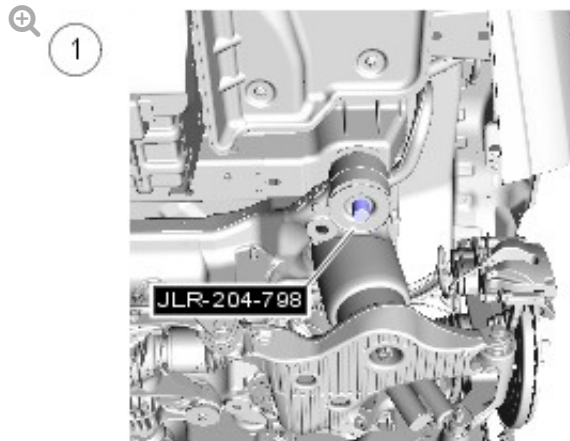


Special Tool(s): [JLR-204-798](#)

17.

**CAUTION:**

Make sure that a new bolt is installed.



*Torque:*

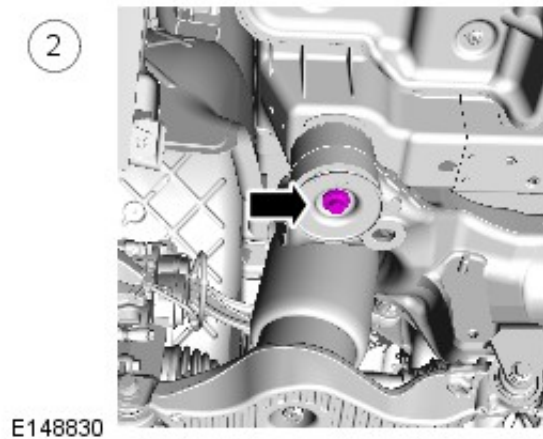
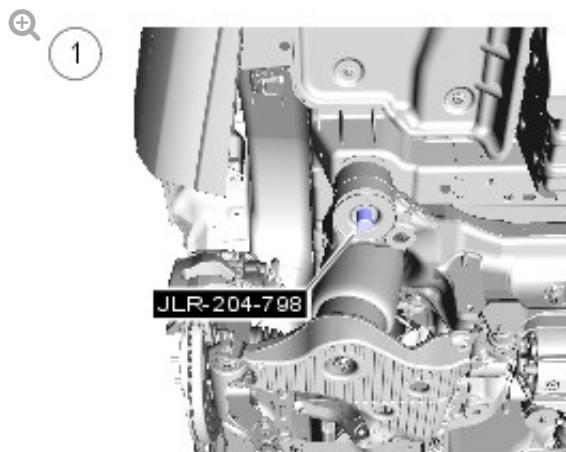
Stage 1: 100 Nm

Stage 2: 300°

18.

**CAUTION:**

Make sure that a new bolt is installed.



*Torque:*

Stage 1: 100 Nm

Stage 2: 300°

19.

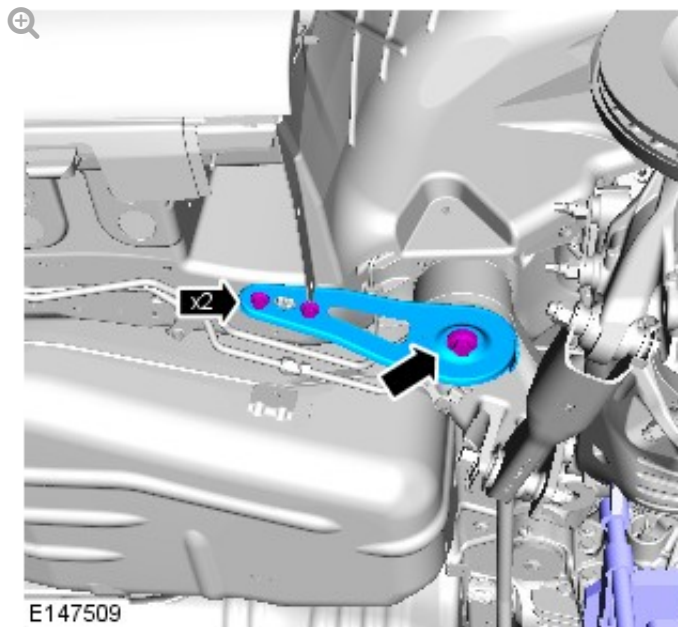
### CAUTION:

LH illustration shown, RH is similar.

### NOTES:

- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



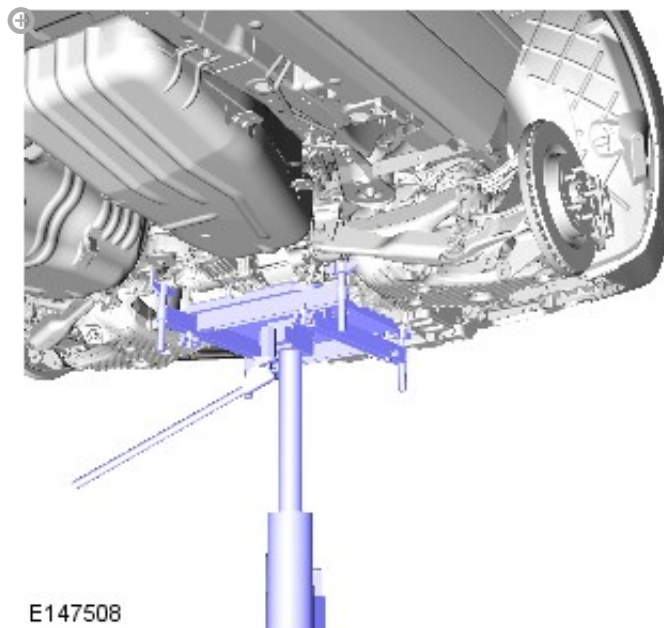


*Torque:*

M14 170 Nm

M10 60 Nm

20.



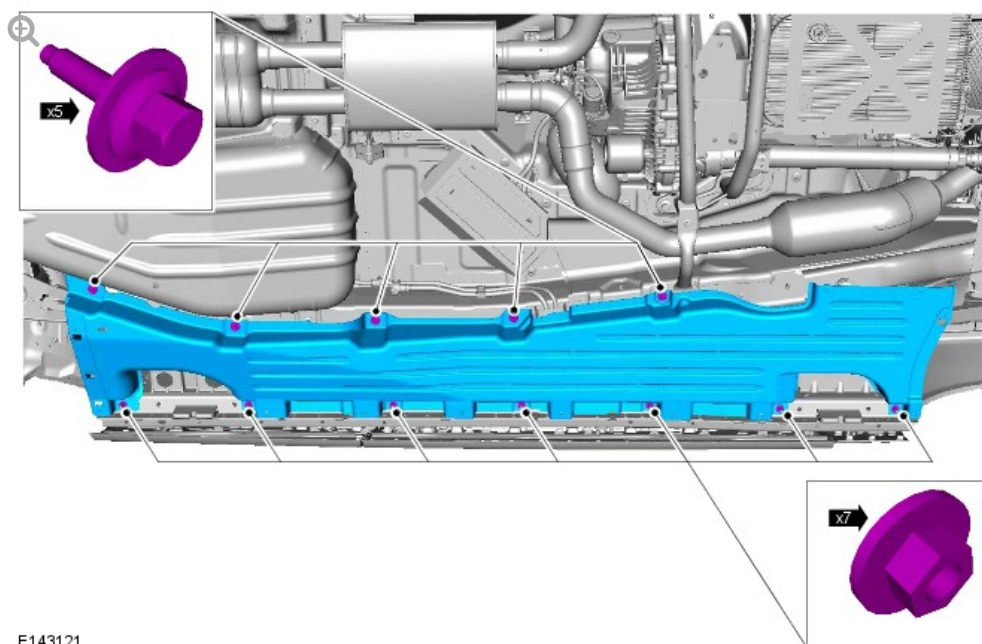
21.

**CAUTION:**

LH illustration shown, RH is similar.

**NOTE:**

Repeat the procedure for the other side.



22.

**NOTE:**

Repeat the procedure for the other side.

Refer to: [Rear Rocker Panel Moulding - Standard Wheel Base \(501-08 Exterior Trim and Ornamentation, Removal and Installation\)](#).

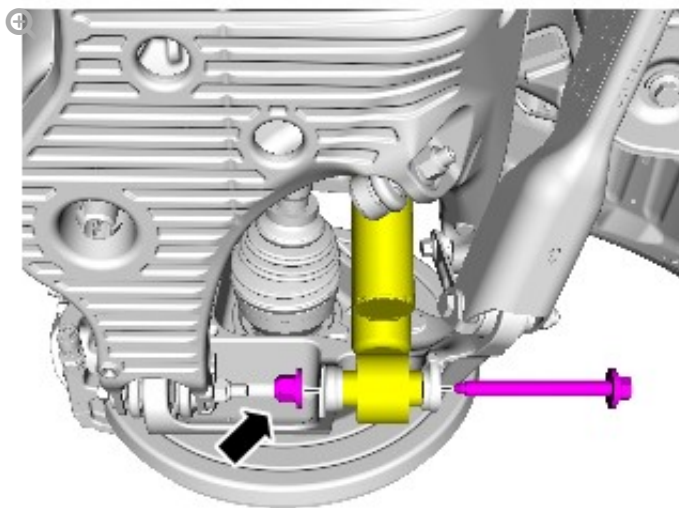
23.

**CAUTION:**

Make sure that a new nut and bolt is installed.

## NOTES:

- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



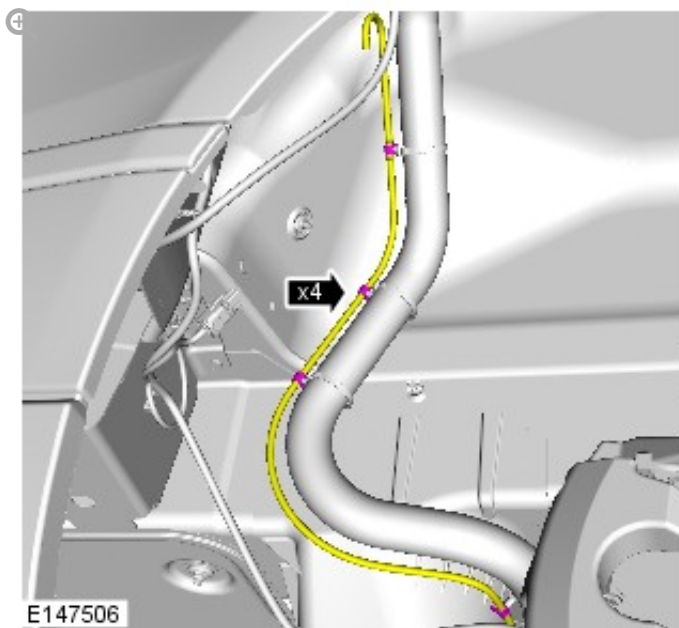
E147507

*Torque:*

Stage 1: 100 Nm

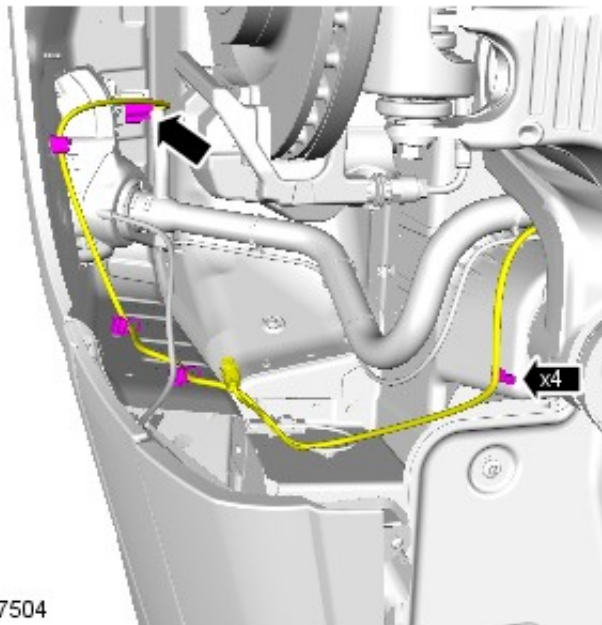
Stage 2: 240°

24.



E147506

25.



E147504

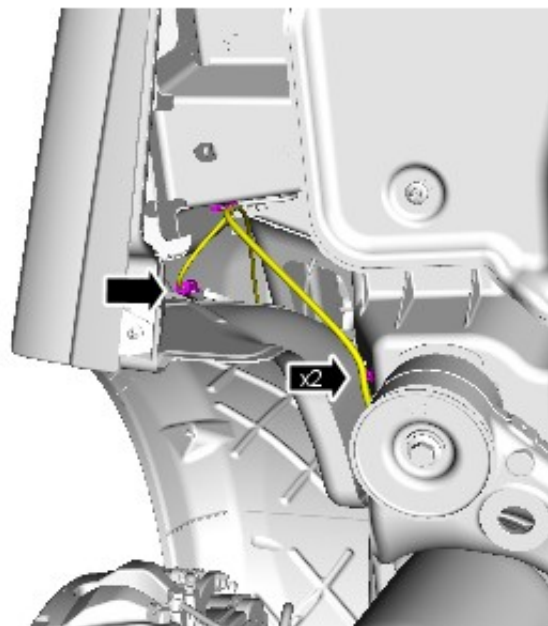
26.

**NOTE:**

RH side only.

Refer to: [Rear Wheel Arch Liner](#) (501-08 Exterior Trim and Ornamentation, Removal and Installation).

27.

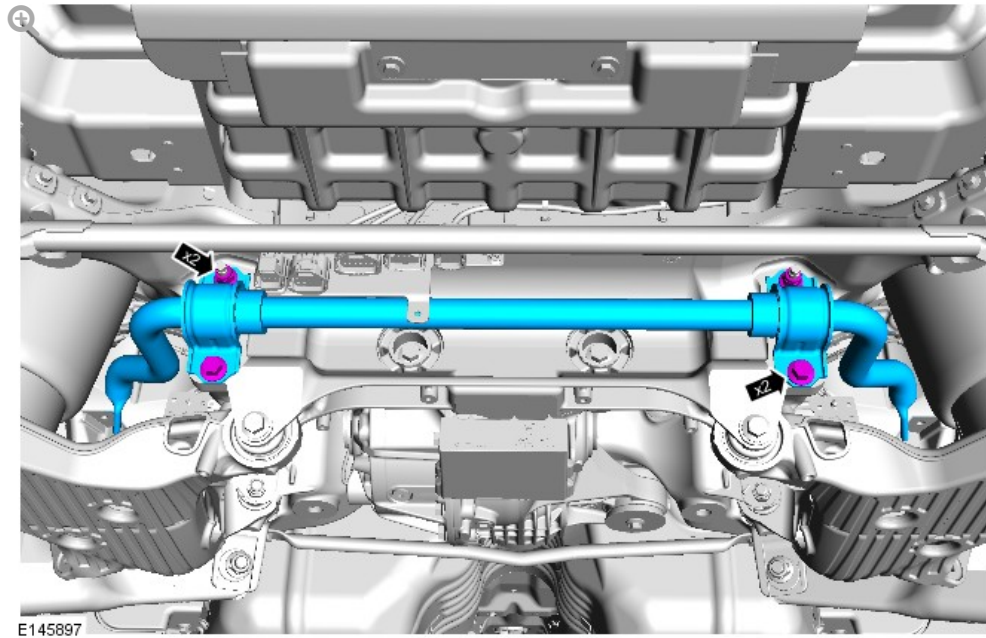


E147503

28.

**NOTE:**

If equipped.

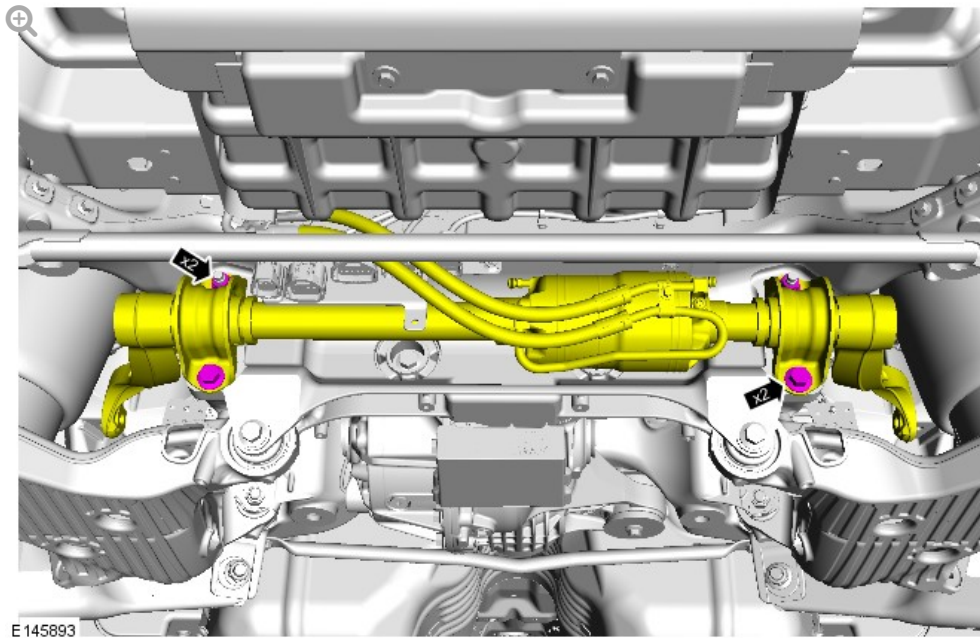


*Torque: 110 Nm*

29.

**NOTE:**

If equipped.

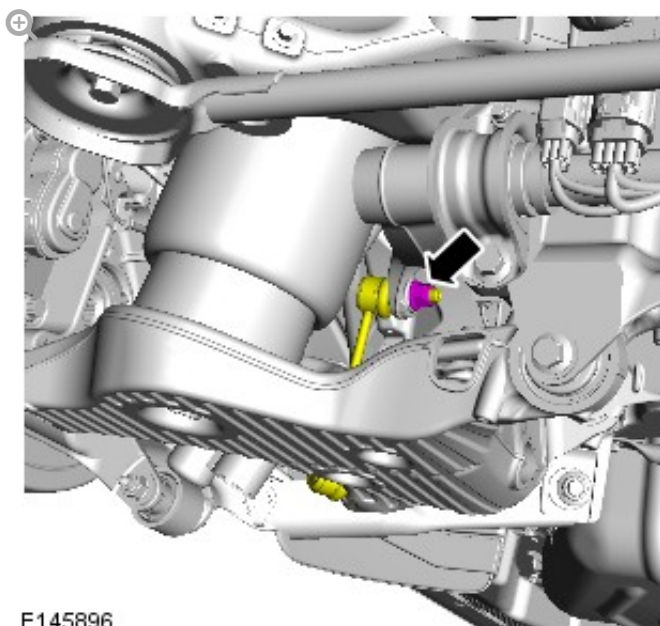


*Torque: 110 Nm*

30.

#### NOTES:

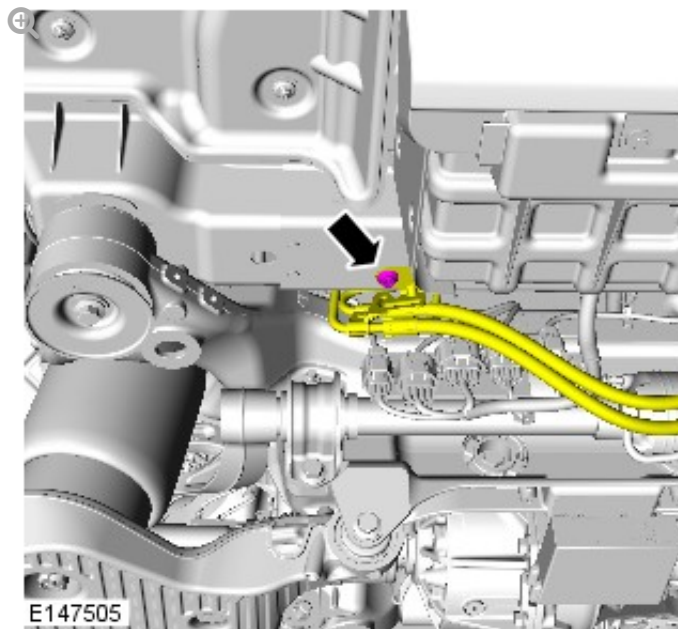
- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



*Torque: 185 Nm*

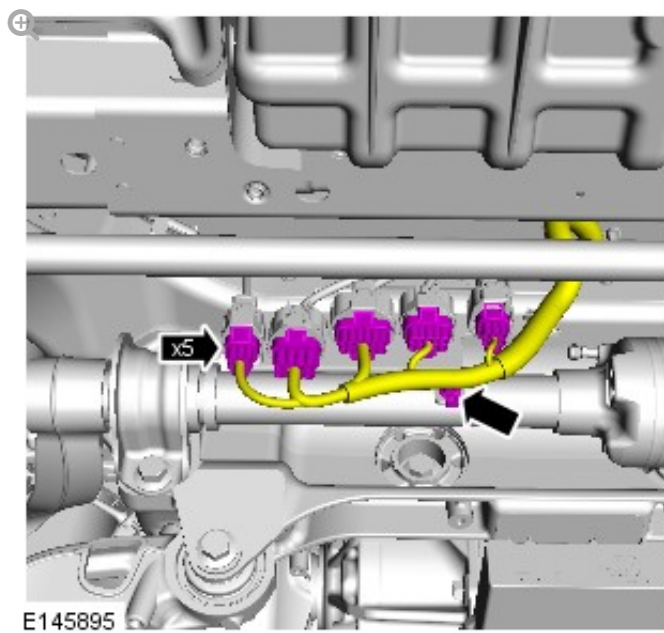


31.

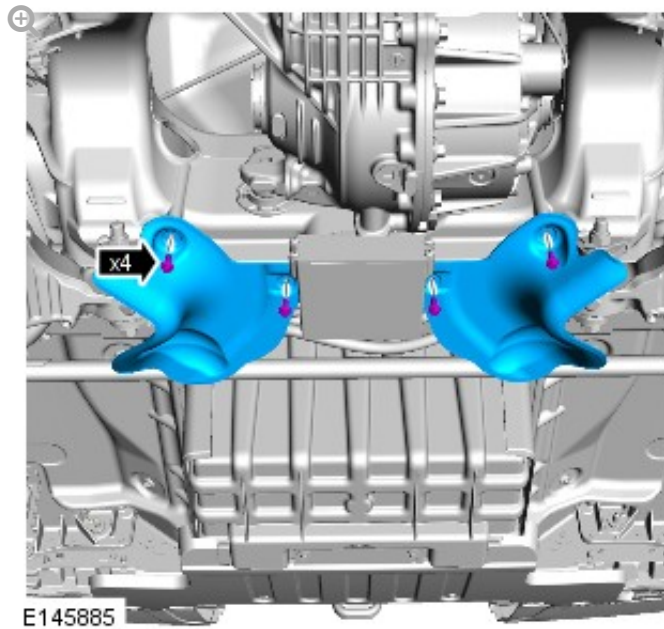


*Torque: 25 Nm*

32.



33.



*Torque: 5 Nm*

34.

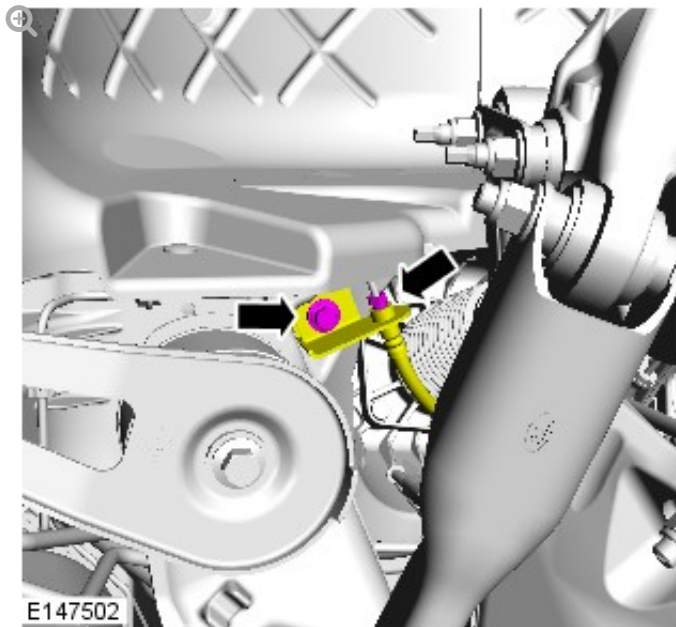
**CAUTION:**

Make sure that the area around the component is clean and free of foreign material.

**NOTES:**

- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.





*Torque:*

**M8 25 Nm**

**Union 16 Nm**

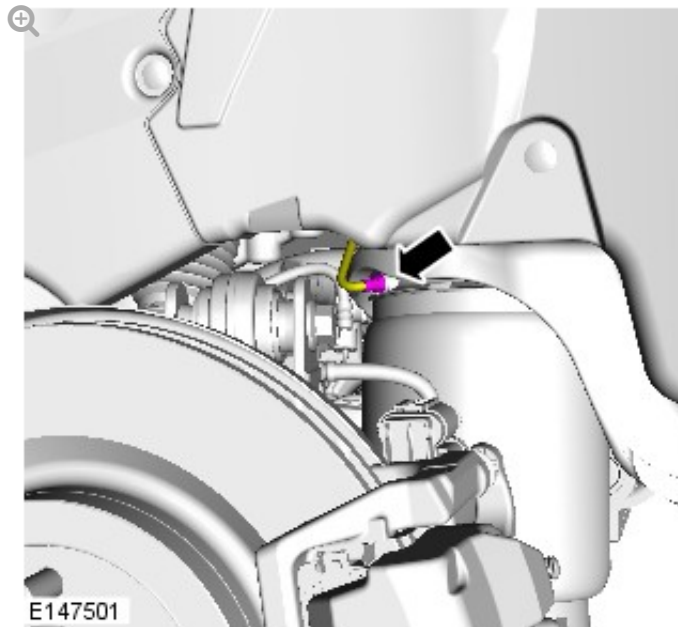
35.

**CAUTION:**

Make sure that the area around the component is clean and free of foreign material.

**NOTES:**

- LH illustration shown, RH is similar.
- Repeat the procedure for the other side.



Refer to: [Air Line Connector](#) (204-05 Vehicle Dynamic Suspension, General Procedures).

*Torque: 3.5 Nm*

36. Refer to: Rear Driveshaft - TDV6 3.0L Diesel (205-01, Removal and Installation).  
Refer to: Rear Driveshaft - V6 S/C 3.0L Petrol /V8 S/C 5.0L Petrol (205-01, Removal and Installation).  
Refer to: Rear Driveshaft - SDV6 3.0L Diesel - Hybrid Electric Vehicle (205-01, Removal and Installation).  
Refer to: Rear Driveshaft - TDV8 4.4L Diesel (205-01, Removal and Installation).  
Refer to: Front Driveshaft - GTDi 2.0L Petrol (205-01, Removal and Installation).
37. Connect the battery ground cable.  
Refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).
38. Refer to: [Brake System Bleeding - Vehicles With: Standard Brakes](#) (206-00 Brake System - General Information, General Procedures).

39.

**CAUTION:**

This step must be carried out to prevent damage to the air spring.

Refer to: [Air Suspension - Manual Control Procedure](#) (204-05 Vehicle Dynamic Suspension, General Procedures).

40. Install the rear wheels and tires.

Refer to: [Wheel and Tire - GTDi 2.0L Petrol/TDV6 3.0L Diesel /TDV8 4.4L Diesel/V6 S/C 3.0L Petrol /V8 N/A 5.0L Petrol/V8 S/C 5.0L Petrol](#) (204-04 Wheels and Tires, Removal and Installation).

Refer to: [Wheel and Tire - SDV6 3.0L Diesel - Hybrid Electric Vehicle](#) (204-04 Wheels and Tires, Removal and Installation).

41.

**CAUTION:**

This step must be carried out in order to maintain the correct air suspension compressor/dryer performance.

**NOTE:**

This step must be carried out with the weight of the vehicle on the suspension.

Using the approved diagnostic equipment, pressurize the rear springs.

Refer to: [Air Suspension System Depressurize and Pressurize](#) (204-05 Vehicle Dynamic Suspension, General Procedures).

42. Refer to: [Four Wheel Alignment](#) (204-00 Suspension System - General Information, General Procedures).

