

Кузов — Рама и крепления

Land Rover Discovery Sport (L550) · Руководство по ремонту
Источник: lrdisc.com · разделов: 12

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- 12. Uni-кузов, подрамник и крепление система задний подрамник сайлентблок / снятие и установка

Рама и крепление

Frame and mounting

- Uni-body, Subframe and Mounting System Front Subframe (G2028440)
- Uni-body, Subframe and Mounting System Front Subframe Front Bushing (G1348232) / Removal and installation
- Uni-body, Subframe and Mounting System Rear Subframe - AWD (G1779461)
- Uni-body, Subframe and Mounting System Rear Subframe - FWD (G1799046)
- Uni-body, Subframe and Mounting System Rear Subframe Bushing (G1779466) / Removal and Installation

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Exterior Trim and Ornamentation Tailgate Moulding (G1785266) / Removal and InstallationUni-body, Subframe and Mounting System Front Subframe (G2028440)

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Uni-кузов, подрамник и крепление система передний подрамник

Uni-body, Subframe and Mounting System Front Subframe (G2028440)

- Uni-body, Subframe and Mounting System Front Subframe (G2028440) - Removal
- Uni-body, Subframe and Mounting System Front Subframe (G2028440) - Installation

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Uni-кузов, подрамник и крепление система передний подрамник - снятие

Uni-body, Subframe and Mounting System Front Subframe (G2028440) - Removal

SPECIAL TOOL(S)



502-012

Alignment Pins,
Subframe

GENERAL EQUIPMENT

EQUIPMENT NAME

Transmission jack

PART(S)

STEP REPLACE PART / RENEW PART PART NAME

Step 5	Renew Part	Lower control arm bolt
Step 5	Renew Part	Lower control arm nut and bolt
Step 8	Renew Part	Front subframe to body bolts
Step 10	Renew Part	Front subframe to body bolts
Step 14	Renew Part	Lower control arm nut and bolt
Step 15	Renew Part	Brake caliper carrier bolts
Step 16	Renew Part	Tie-rod end nut
Step 28	Renew Part	Steering column lower shaft lower bolt

Removal

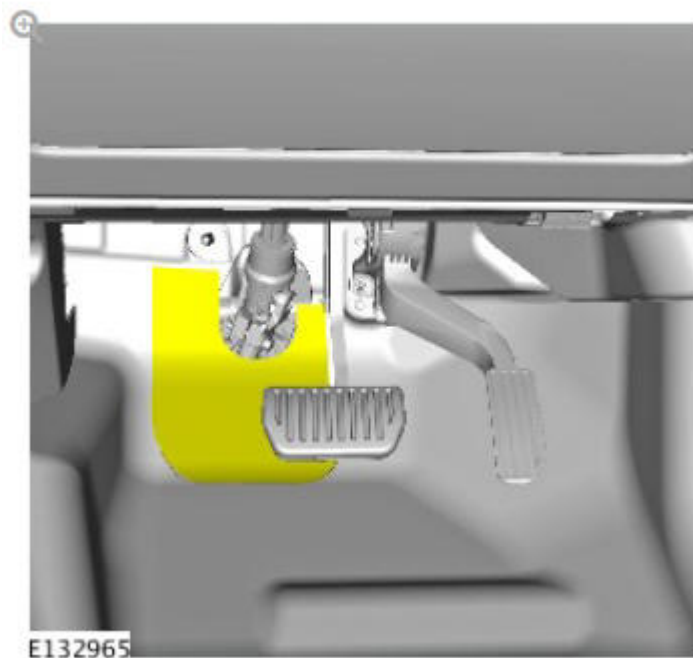
CAUTION:

The final tightening of the suspension components must be carried out with the vehicle on its wheels.

NOTES:

- *This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.*
- *This procedure contains illustrations showing certain components removed to provide extra clarity.*
- *Steps 6 to 14 must be performed to the components on both sides of the vehicle.*

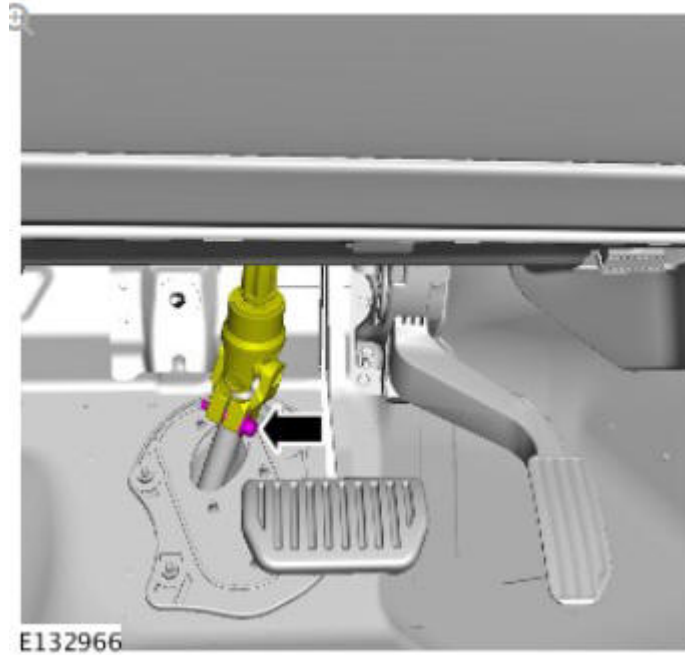
All vehicles



Release the drivers footwell carpet.

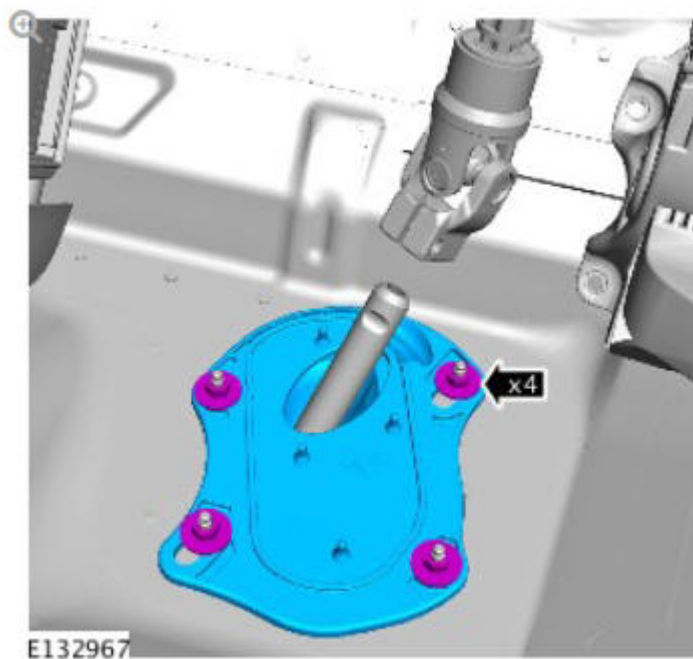
CAUTION:

Do not allow the steering wheel to rotate once the steering column is disconnected.



Disconnect the lower steering column from the steering gear.

Discard the bolt.



Remove the steering gear bulkhead seal. Discard the nuts.

Raise and support the vehicle on a suitable 2 post lift.

Refer to: Lifting (100-02 Jacking and Lifting, Description and Operation).

Remove the engine undershield.

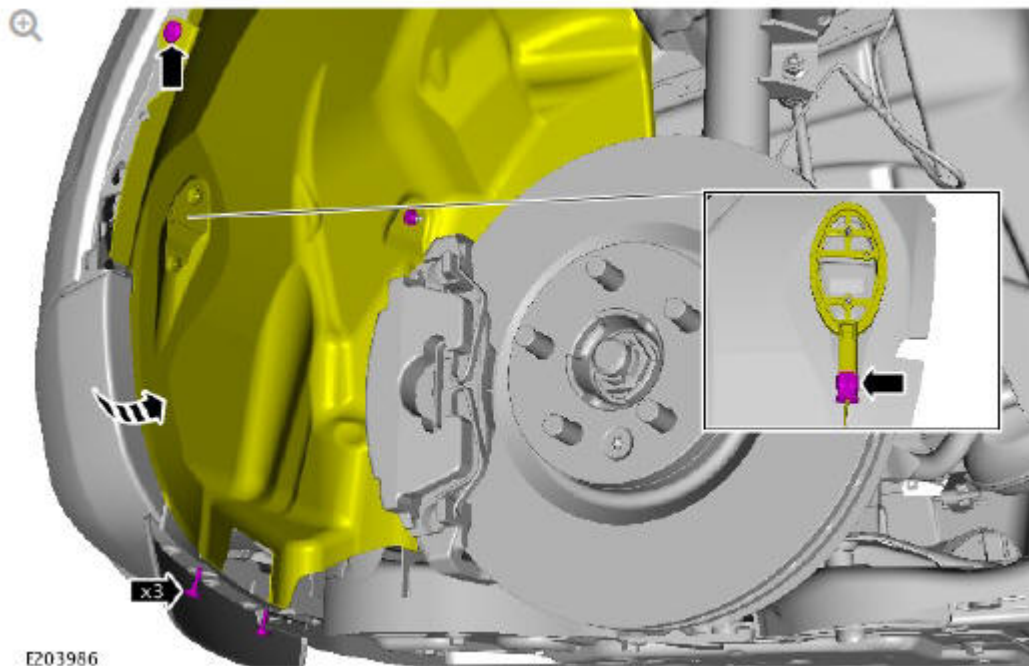
Refer to: Engine Undershield (501-02 Front End Body Panels, Removal and Installation).

Remove the front wheels and tires.

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

Remove the suspension height sensors.

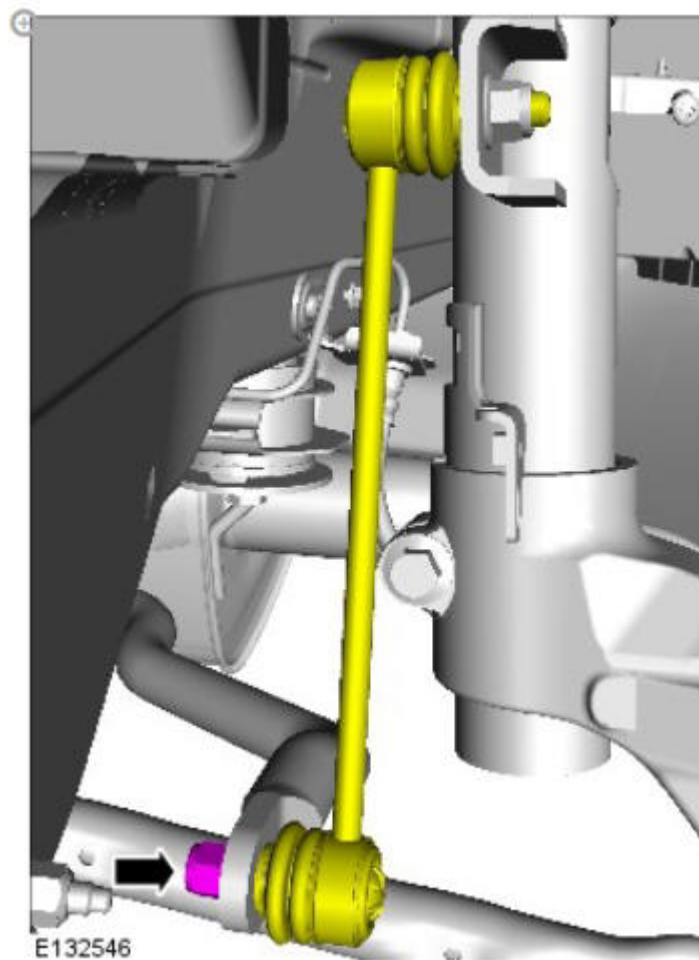
Refer to: Front Suspension Height Sensor (204-05 Vehicle Dynamic Suspension, Removal and Installation).



1. Release the front wheel arch liner.
2. Disconnect the tire pressure monitor sensor.

CAUTION:

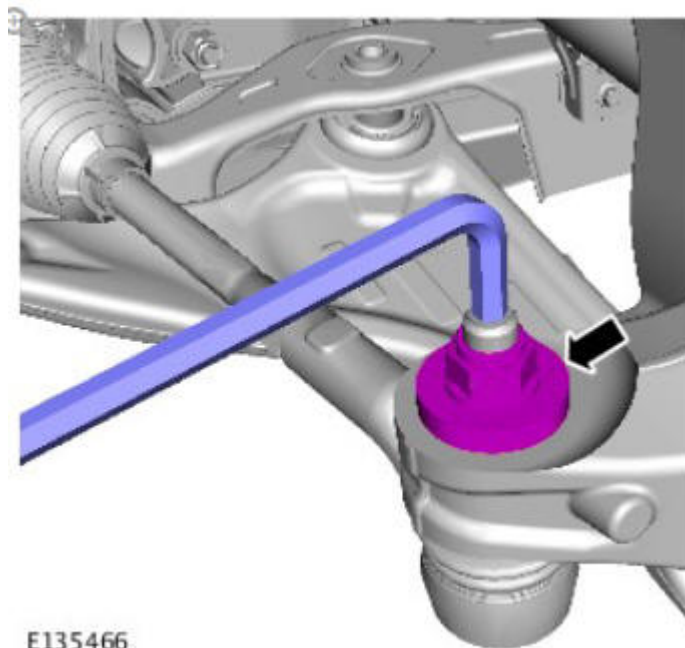
Make sure that the ball joint ball does not rotate.



Disconnect the front stabilizer bar link lower ball joint. Discard the nut.

CAUTION:

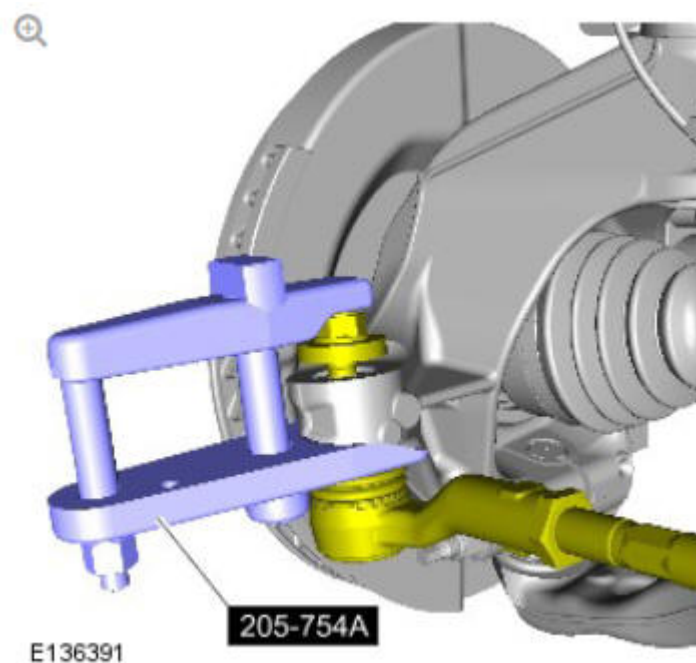
Make sure that the ball joint ball does not rotate.



Loosen the tie rod end to wheel knuckle nut

CAUTION:

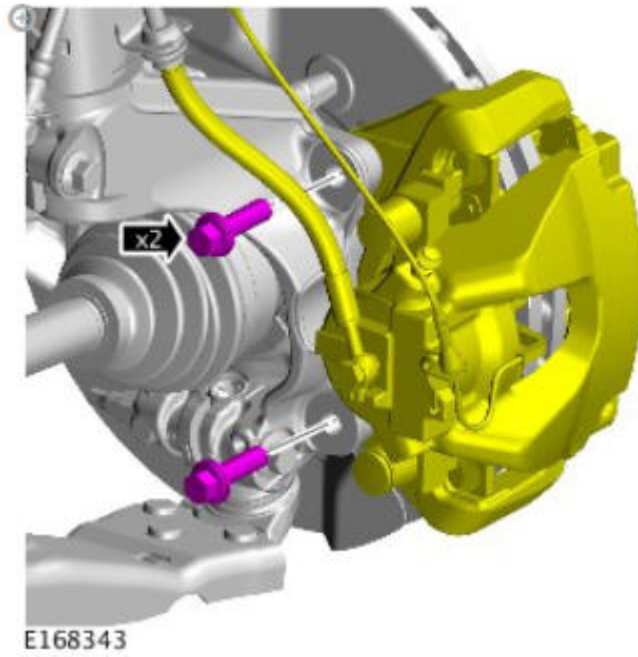
Make sure that the ball joint seal is not damaged.



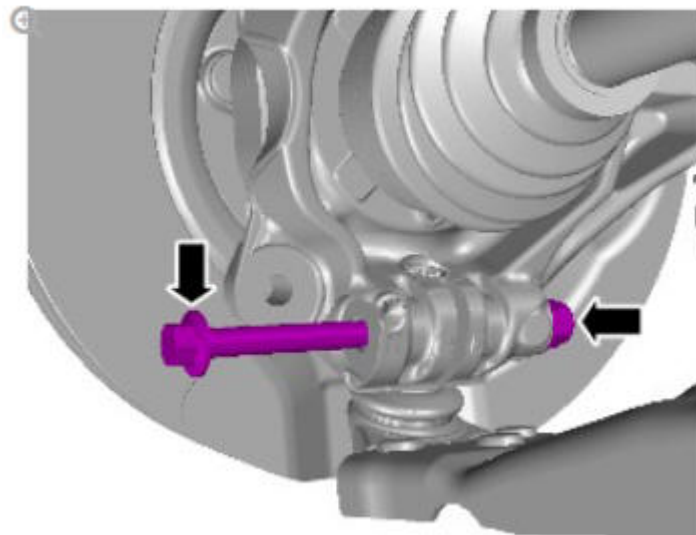
Using the special tool, disconnect the tie rod end. Discard the nut.

CAUTION:

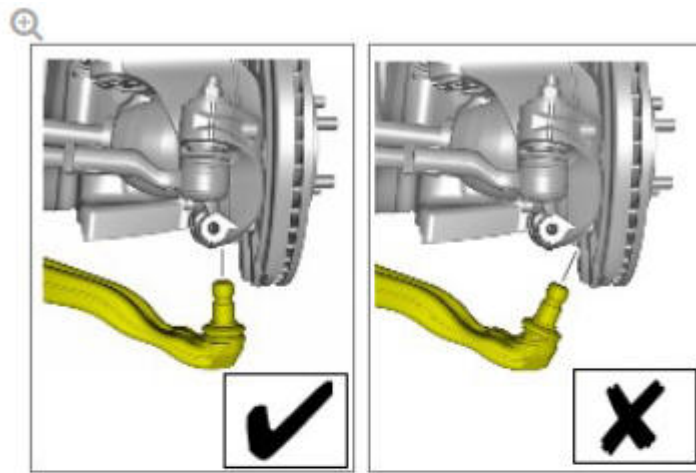
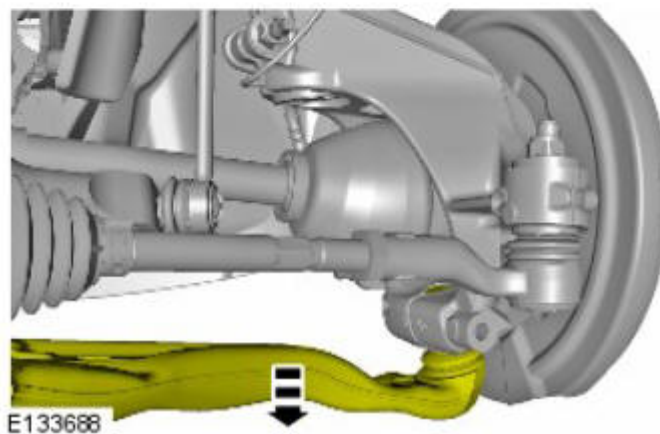
Support the brake caliper at all times.



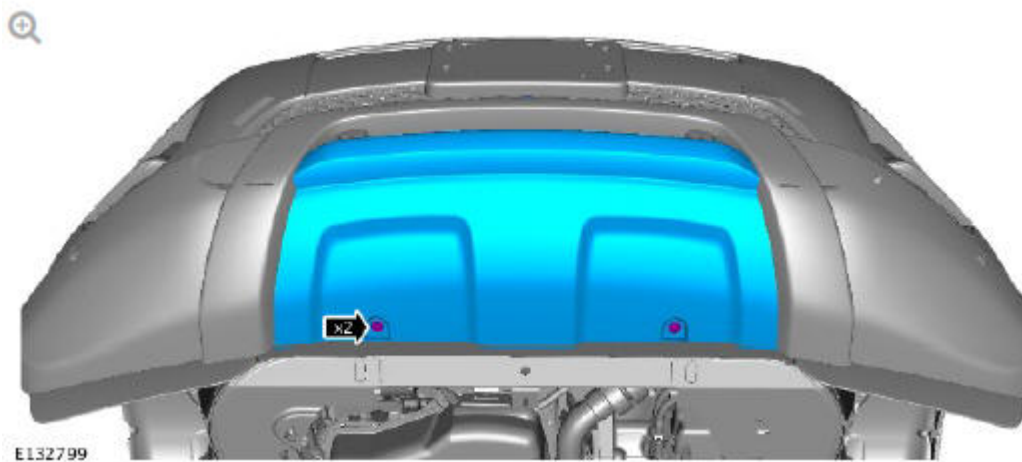
Disconnect the brake caliper. Discard the bolts.



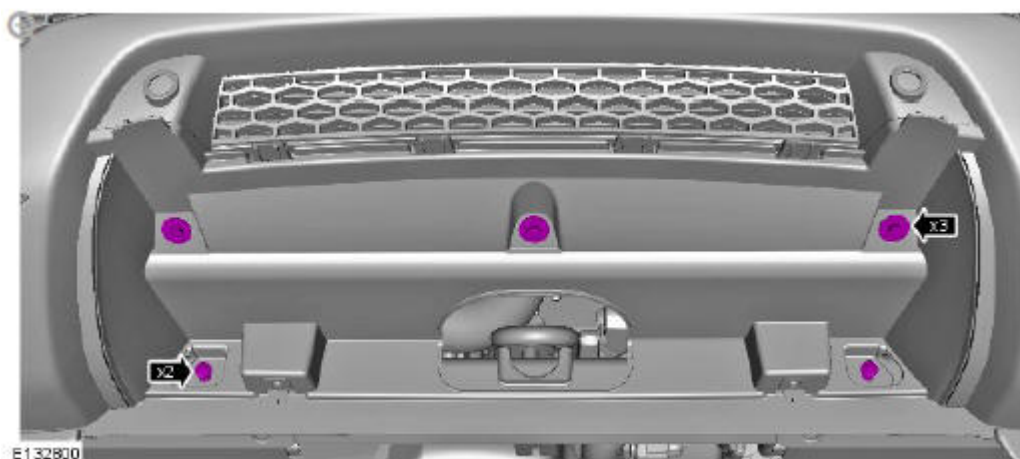
Remove and discard the suspension lower control arm ball joint nut and bolt.



Disconnect the suspension lower control arm ball joint.



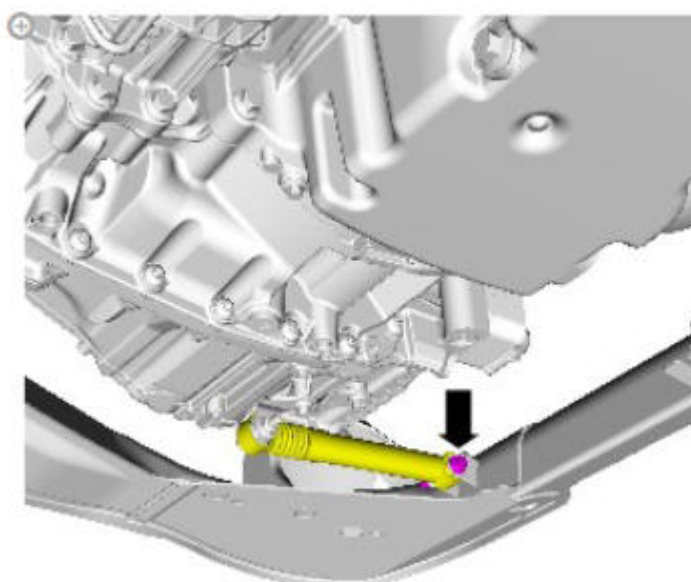
Remove the front bumper tow eye cover.



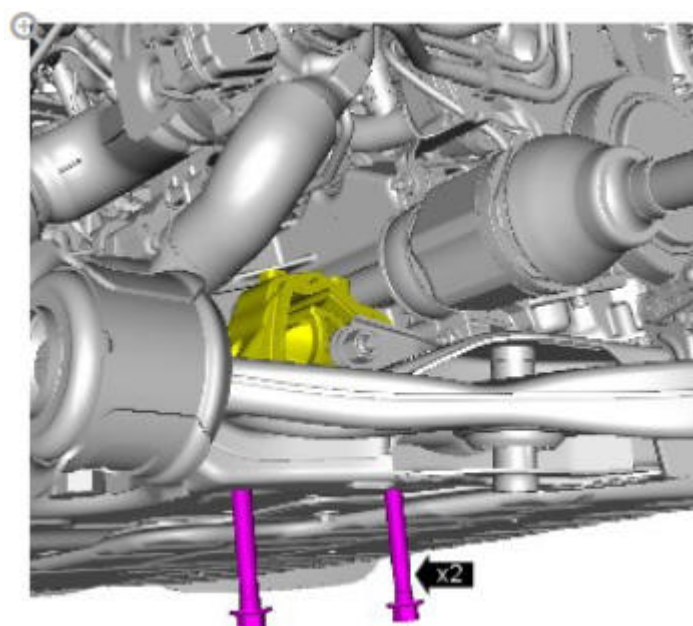
Remove the front bumper lower retaining bolts.

NOTE:

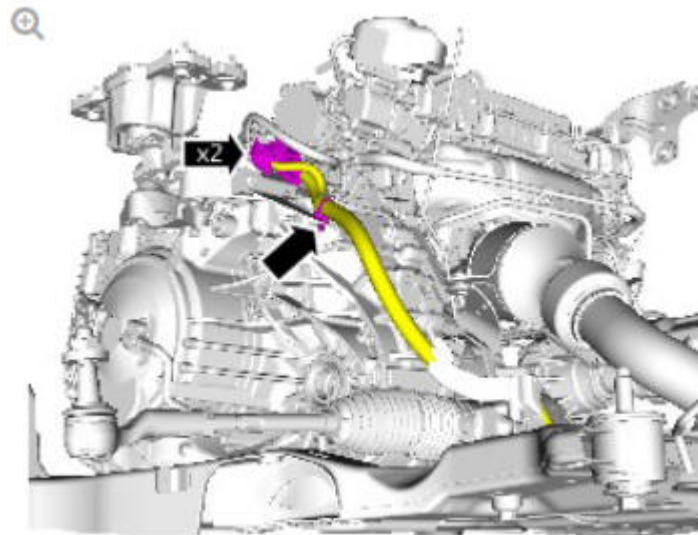
If equipped.



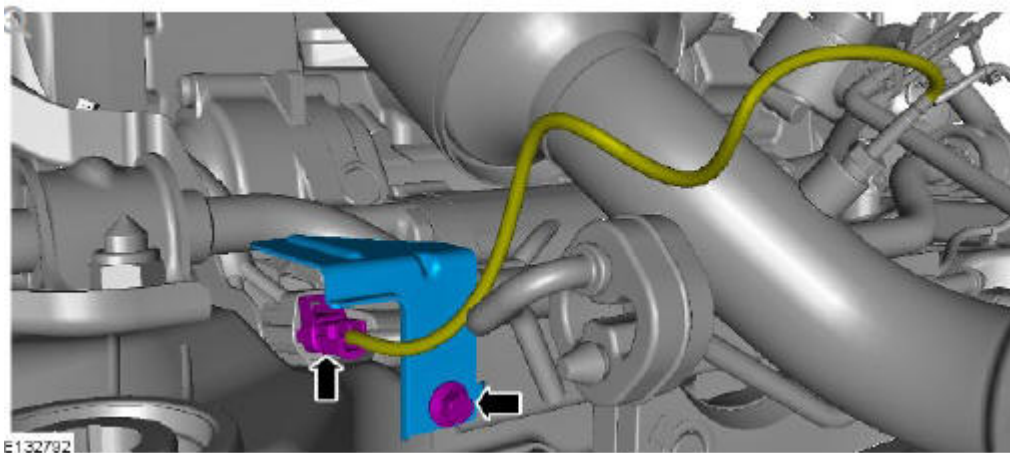
Disconnect the transmission steady bar.



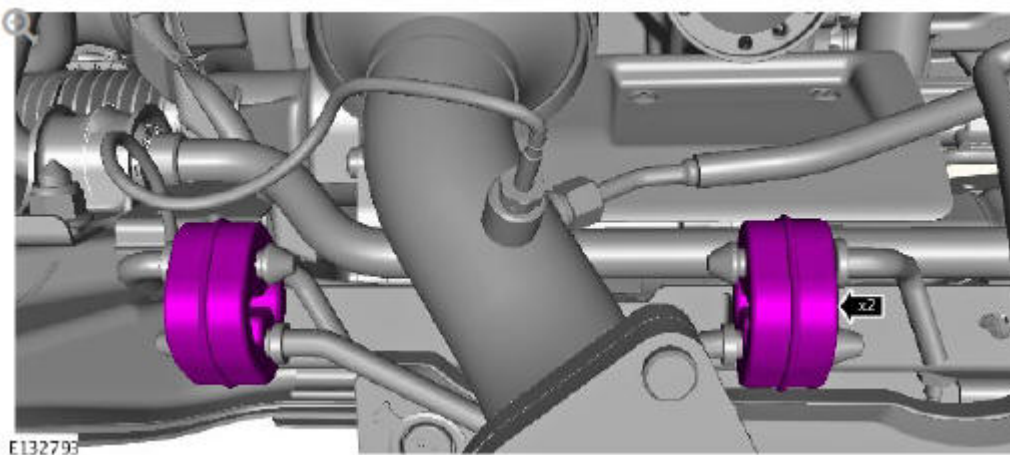
Disconnect the engine steady bar.



Disconnect and release the steering gear wiring harness.

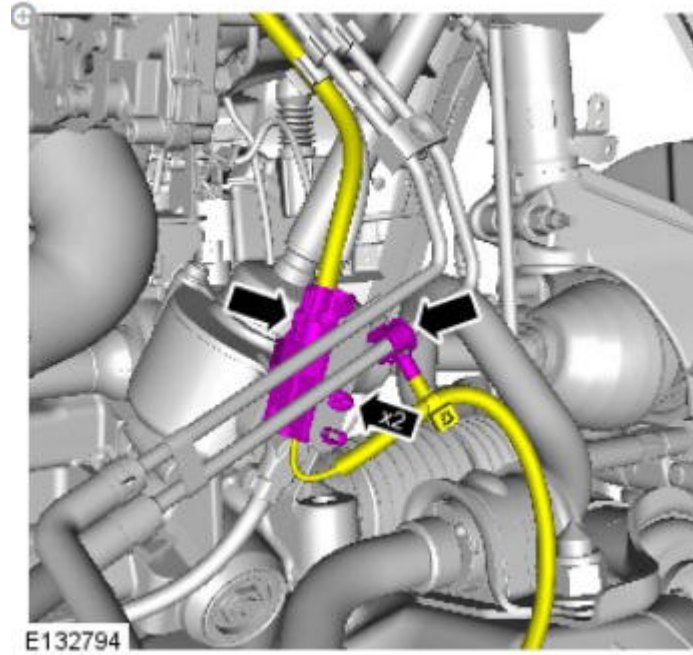


1. Disconnect the exhaust sensor wiring harness.
2. Remove the exhaust sensor wiring harness bracket.



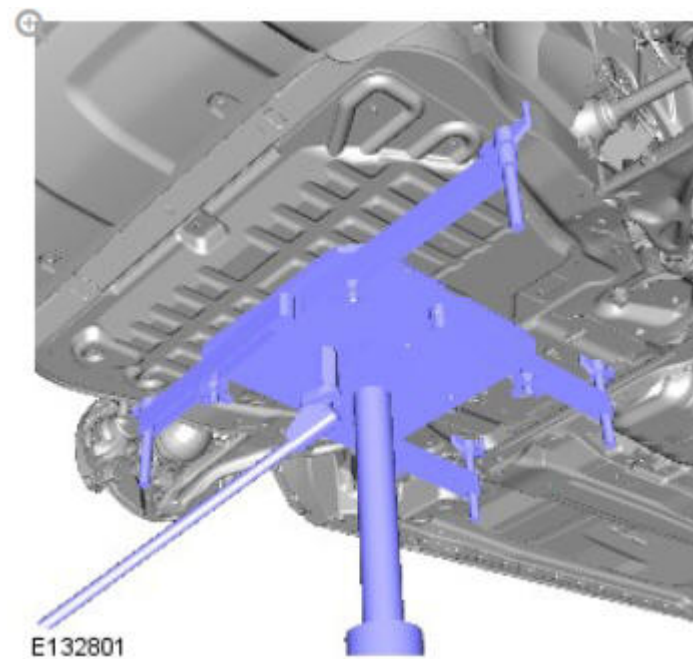
Release the front exhaust hangers.

Vehicles with diesel particulate filter (DPF)



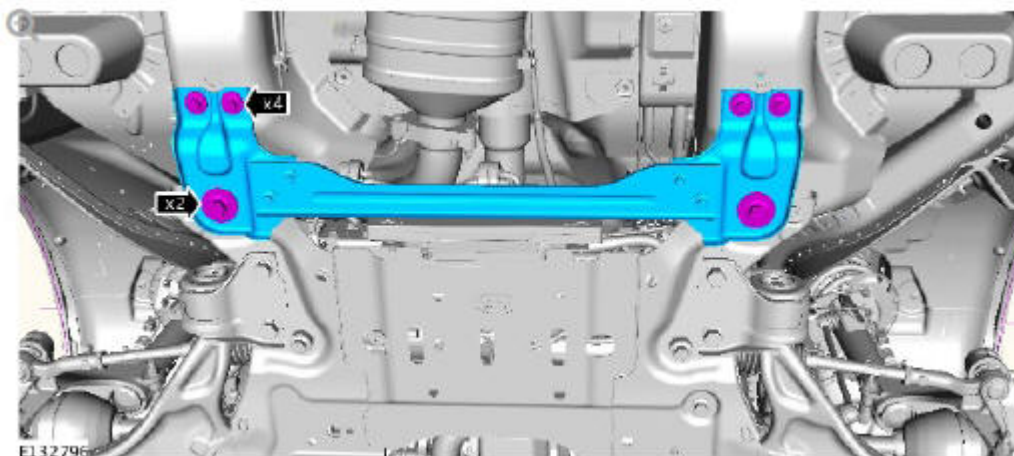
Disconnect and release the DPF sensor wiring harness.

All vehicles

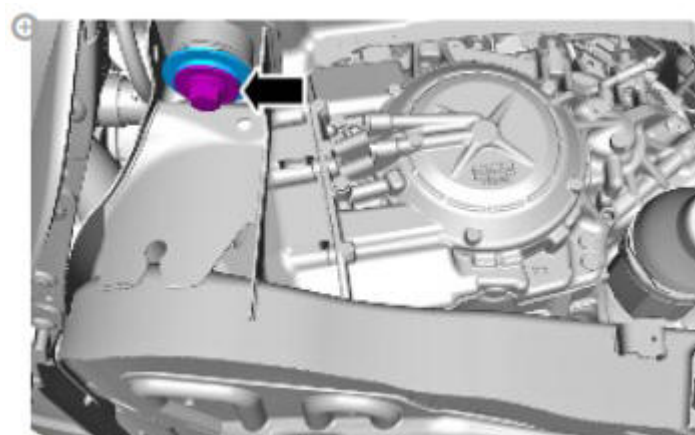
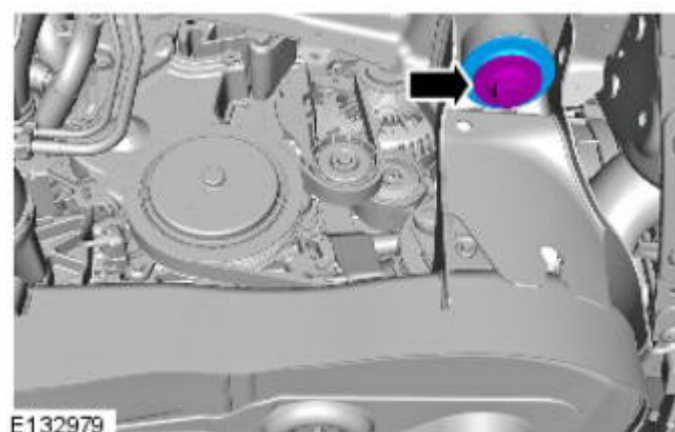


Using a suitable stand, support the front subframe.

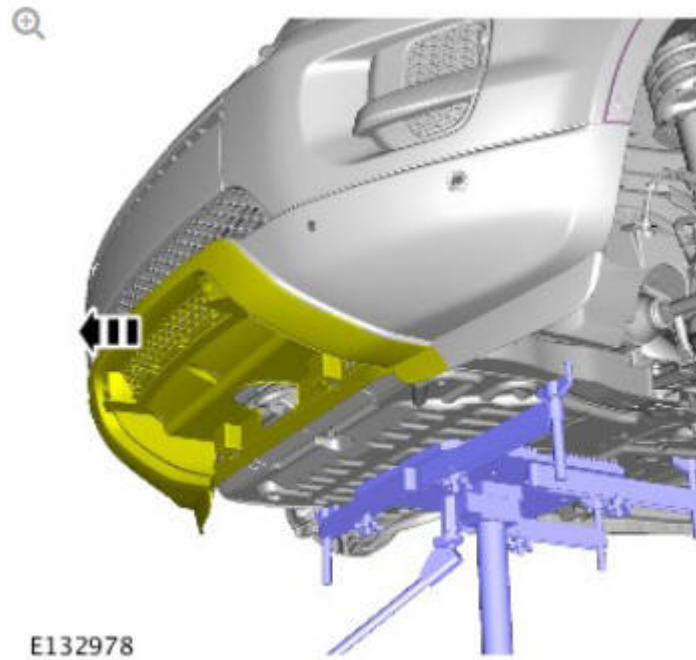
General Equipment: Transmission jack



Remove the front subframe to body cross member. Discard the M16 bolts.



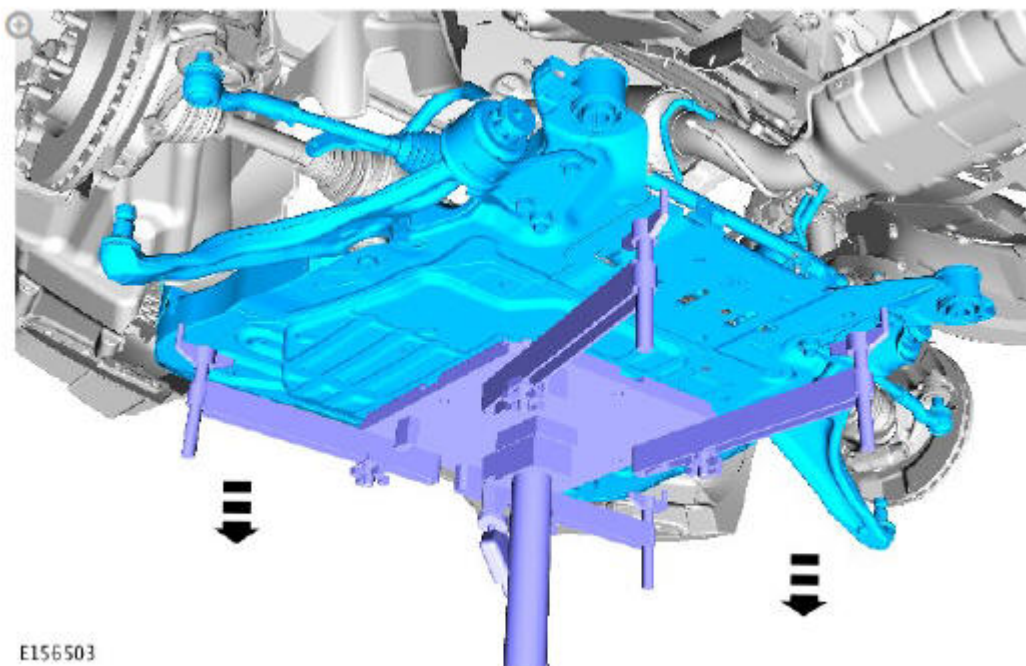
Remove and discard the front subframe front retaining bolts.



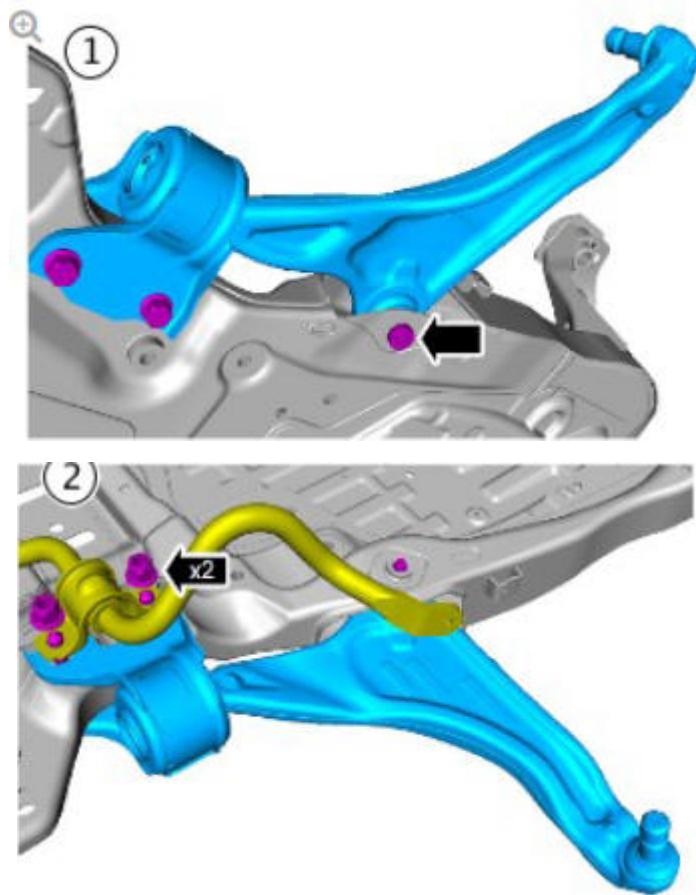
Reposition the front bumper.

NOTE:

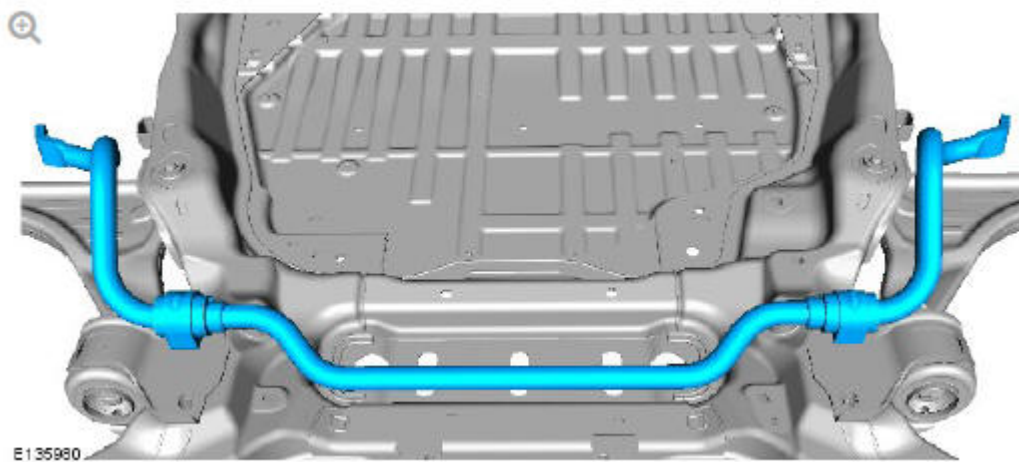
Do not disassemble further if the component is removed for access only.



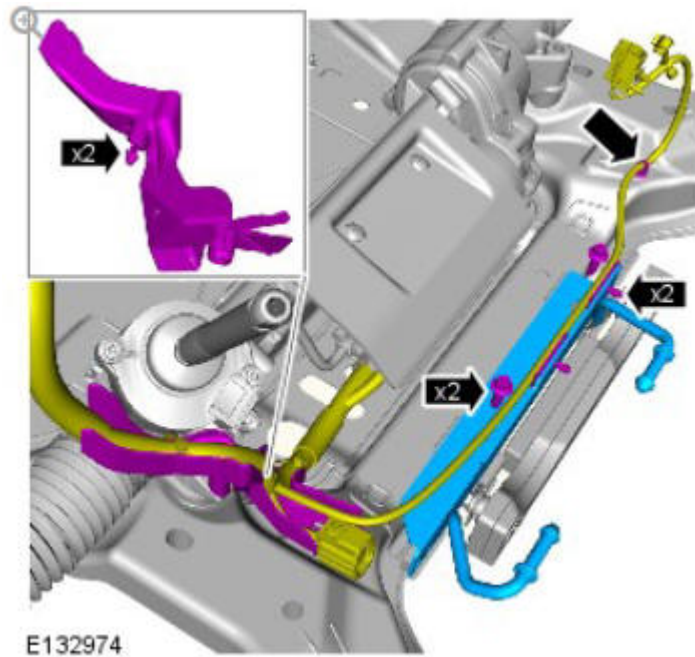
Remove the front subframe.



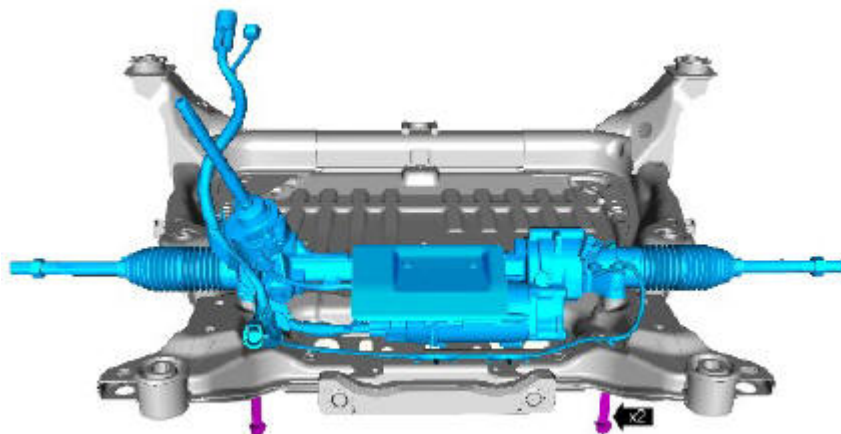
Remove the suspension lower control arm. Discard the nuts and bolts.



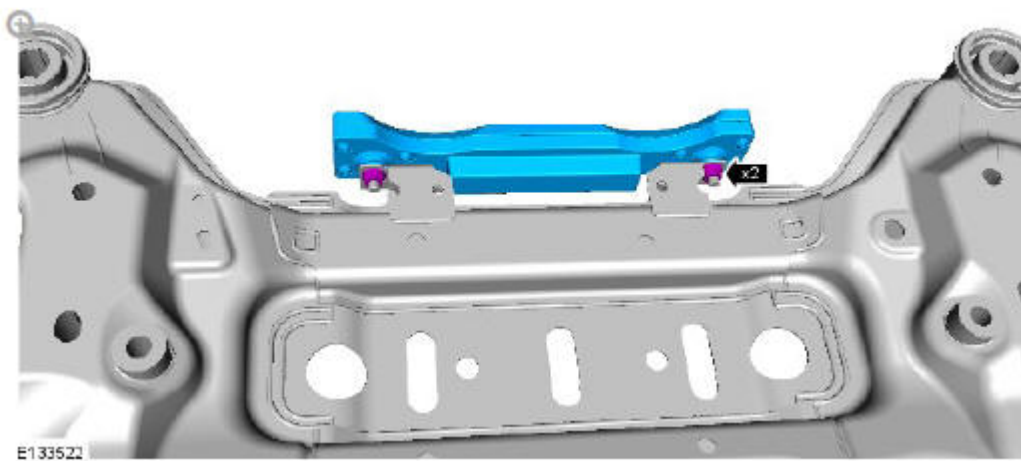
Remove the stabilizer bar.



1. Release the steering gear wiring harness.
2. Remove the exhaust hanger bracket.



Remove the steering gear.



Remove the noise, vibration and harshness damper.

Uni-кузов, подрамник и крепление система передний подрамник - установка

Uni-body, Subframe and Mounting System Front Subframe (G2028440) - Installation

Installation

NOTES:

- *Steps 1 to 5 must only be performed to the components were previously removed.*
- *Steps 14 to 20 must be performed to the components on both sides of the vehicle.*

All vehicles

Install the noise, vibration and harshness damper.

Torque: 24 Nm

Install the steering gear.

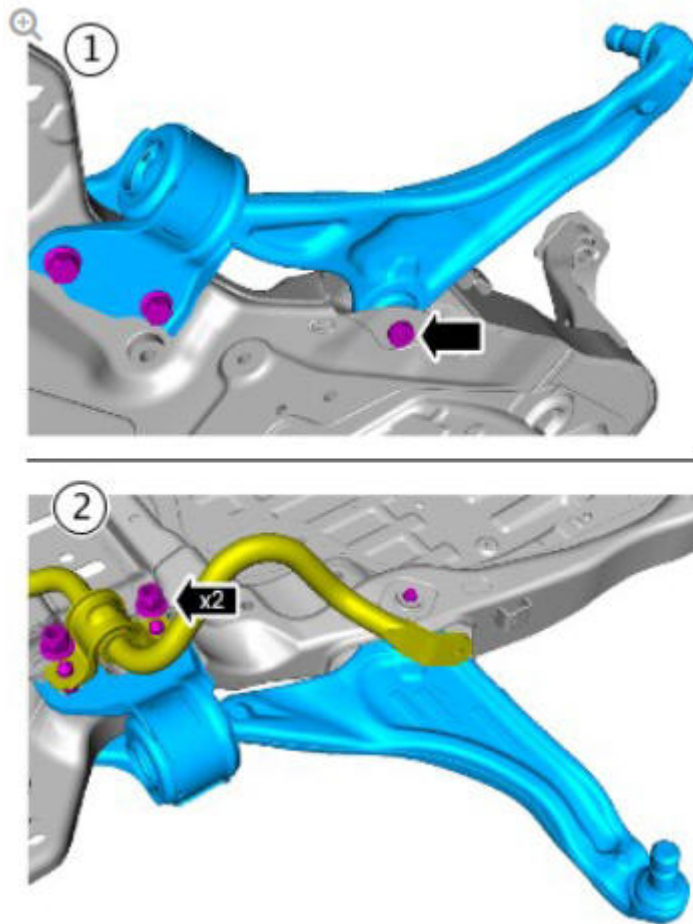
Torque: 189 Nm

1. Install the exhaust hanger bracket.

Torque: 20 Nm

2. Secure the steering gear wiring harness

Install the stabilizer bar.



1. Install the suspension lower control arms. Renew the nuts and bolts.

Renew Part: Lower control arm bolt.

Renew Part: Lower control arm nut and bolt.

2. (1) Lower control arm front bolt.

Torque: Stage 1: 140 Nm Stage 2: 45°

3. (2) Lower suspension control arm rear nuts and bolts for vehicles fitted with 18" brakes.

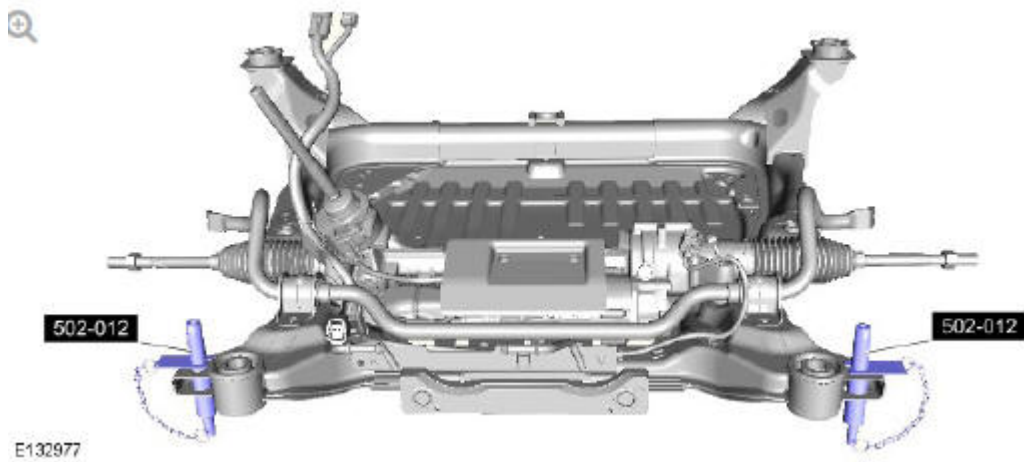
Torque:

Stage 1: 115 Nm

Stage 2: 240°

4. (2) Lower suspension control arm rear nuts and bolts for vehicles fitted with 17" brakes.

Torque: 175 Nm



Install the special tools to the front subframe.

Special Tool(s): 502-012

1. Using a suitable stand, install the subframe.
2. Allow the special tools to control the position of the front subframe.

Renew and install the front subframe front retaining bolts.

Renew Part: Front subframe to body bolts.

Torque:

Stage 1: 140 Nm

Stage 2: 240°

Remove the special tools Special Tool(s): 502-012

Install the front subframe to body cross member. Renew the M16 bolts.

Renew Part: Front subframe to body bolts.

Torque:

M16

Stage 1: 140 Nm

Stage 2: 240°

M10 45 Nm

Remove the stand.

Connect the engine steady bar.

Torque: 110 Nm

Connect the transmission steady bar.

Torque: 25 Nm

Connect the suspension lower control arm ball joints. Renew the nut and bolts

Renew Part: Lower control arm nut and bolt.

Torque:

Stage 1: 80 Nm

Stage 2: 180°

Connect the brake calipers. Renew the bolts.

Renew Part: Brake caliper carrier bolts.

Torque:

M12 bolts

Stage 1: 90 Nm

Stage 2: 120°

M14 bolts

Stage 1: 110 Nm

Stage 2: Loosen: 120°

Connect the tie rod end. Renew the nuts Renew Part: Tie-rod end nut.

Torque: 133 Nm

CAUTION:

Make sure that the ball joint ball does not rotate.

Connect the front stabilizer bar link lower ball joint. Renew the nut.

Torque: 55 Nm

1. Connect the tire pressure monitor sensor.
2. Secure the front wheel arch liner.

Install the suspension height sensors.

Refer to: Front Suspension Height Sensor (204-05 Vehicle Dynamic Suspension, Removal and Installation).

Install the front wheels and tires.

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

Secure the front exhaust hangers.

1. Connect the exhaust sensor wiring harness.
2. Install the exhaust sensor wiring harness bracket.

Torque: 12 Nm

Vehicles with diesel particulate filter (DPF)

Connect and secure the DPF sensor wiring harness.

All vehicles

Connect the steering gear wiring harness.

Secure the front bumper.

Torque: 10 Nm

Install the front bumper tow eye cover.

Torque: 10 Nm

CAUTION:

Make sure that the specified torque is not exceeded, or the retaining studs may shear and damage the body panel.

Install the steering gear bulkhead seal. Renew the nuts

Torque: 2.2 Nm

CAUTION:

Do not allow the steering wheel to rotate once the steering column is disconnected.

Connect the lower steering column to the steering gear. Renew the bolt.

Renew Part: Steering column lower shaft lower bolt.

Secure the drivers footwell carpet.

Using only four wheel alignment equipment approved by Land Rover, check and adjust the wheel alignment.

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

Check the suspension system ride height.

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Uni-body, Subframe and Mounting System Front Subframe (G2028440) - RemovalUni-body, Subframe and Mounting System Front Subframe Front Bushing (G1348232) / Removal and installation

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Uni-кузов, подрамник и крепление система передний подрамник передний сайлентблок / снятие и установка

Uni-body, Subframe and Mounting System Front Subframe Front Bushing (G1348232) / Removal and installation

SPECIAL TOOL(S)



204-
598

Hydraulic
Cylinder 10t



204-598-
01

Remover/Installer,
Subframe Bushing
Guide

REMOVAL

NOTE:

Some variation in the illustrations may occur, but the essential information is always correct.

WARNING:

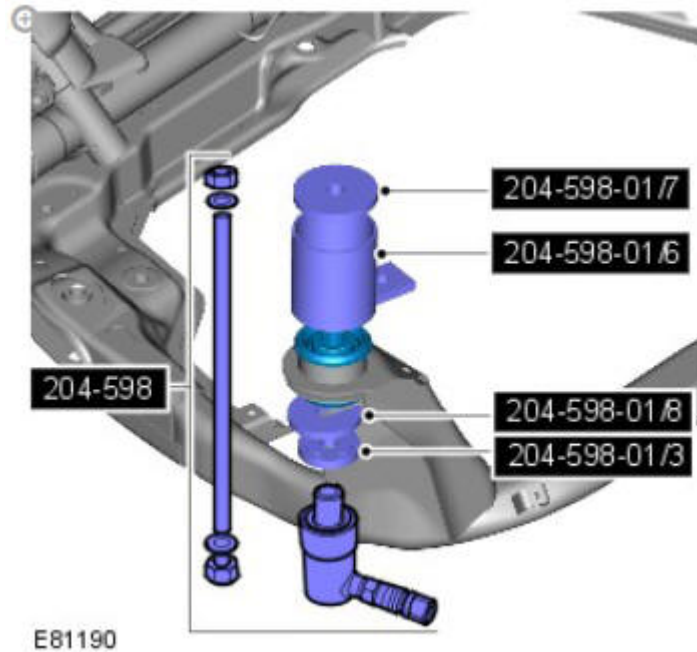
Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

Refer to: Front Subframe (502-00, Removal and Installation).

CAUTION:

Mark the components to aid installation.

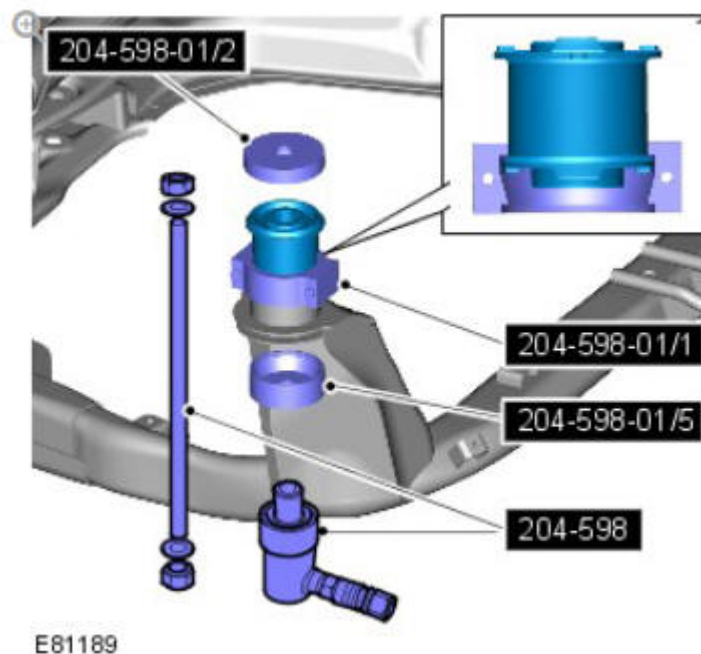


- Remove the bushing.
Special Tool(s): 204-598, 204-598-01
- Special tool 204-598-01/8 is used to start the bushing removal process, and must be removed after the bushing has released, as it will not pass through the sub-frame bushing aperture.

INSTALLATION

CAUTION:

Make sure that the component aligns with the installation mark.



Install the bushing.

Special Tool(s): 204-598, 204-598-01

Refer to: Front Subframe (502-00, Removal and Installation).

Uni-body, subframe and mounting system front subframe rear bushing (G1348233) removal and installation

SPECIAL TOOL(S)



204-
598

Hydraulic
Cylinder 10t



204-598-
01

Remover/Installer,
Subframe Bushing
Guide

REMOVAL

NOTE:

Some variation in the illustrations may occur, but the essential information is always correct.

WARNING:

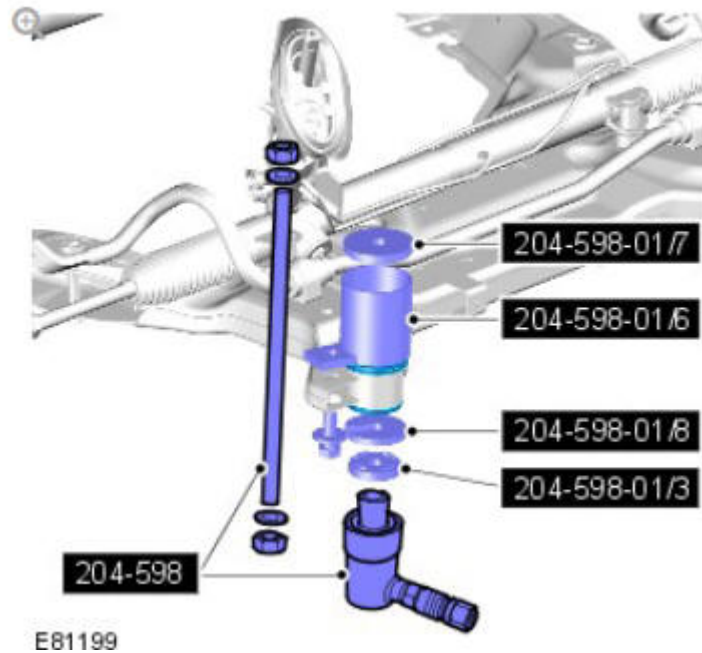
Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

Refer to: Front Subframe (502-00 Uni-Body, Subframe and Mounting System, Removal and Installation).

CAUTION:

Mark the components to aid installation.



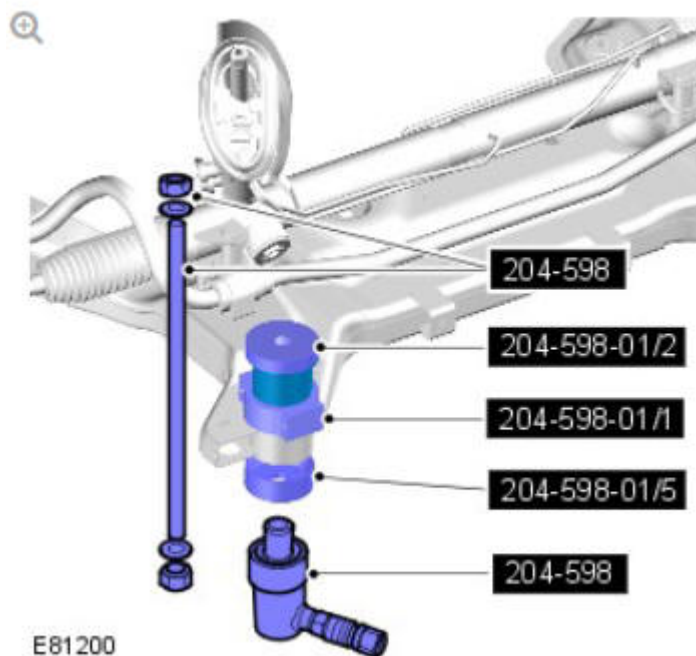
- Special tool 204-598-01/8 is used to start the bushing removal process, and must be removed after the bushing has released, as it will not pass through the sub-frame bushing aperture.
- Remove the bushing.

Special Tool(s): 204-598, 204-598-01

INSTALLATION

CAUTION:

Make sure that the component aligns with the installation mark.



Install the bushing.

Special Tool(s): 204-598, 204-598-01

Refer to: Front Subframe (502-00 Uni-Body, Subframe and Mounting System, Removal and Installation).

Uni-body, Subframe and Mounting System Front Subframe (G2028440) - InstallationUni-body, Subframe and Mounting System Rear Subframe - AWD (G1779461)

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Uni-кузов, подрамник и крепление система задний подрамник - AWD

Uni-body, Subframe and Mounting System Rear Subframe - AWD (G1779461)

- Uni-body, Subframe and Mounting System Rear Subframe - AWD (G1779461) - Removal
- Uni-body, Subframe and Mounting System Rear Subframe - AWD (G1779461) - Installation

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Uni-body, Subframe and Mounting System Front Subframe Front Bushing (G1348232) / Removal and installationUni-body, Subframe and Mounting System Rear Subframe - AWD (G1779461) - Removal

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Uni-кузов, подрамник и крепление система задний подрамник - AWD - снятие

Uni-body, Subframe and Mounting System Rear Subframe - AWD (G1779461) - Removal

Removal

NOTES:

- *Some variation in the illustrations may occur, but the essential information is always correct.*
 - *Some components shown removed for clarity.*
1. Refer to: Electronic Parking Brake Service Mode Activation and Deactivation (206-05 Parking Brake and Actuation, General Procedures).

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.

Remove the rear wheels and tires Refer to: Wheel and Tire (204-04 Wheels and Tires, Removal and Installation).

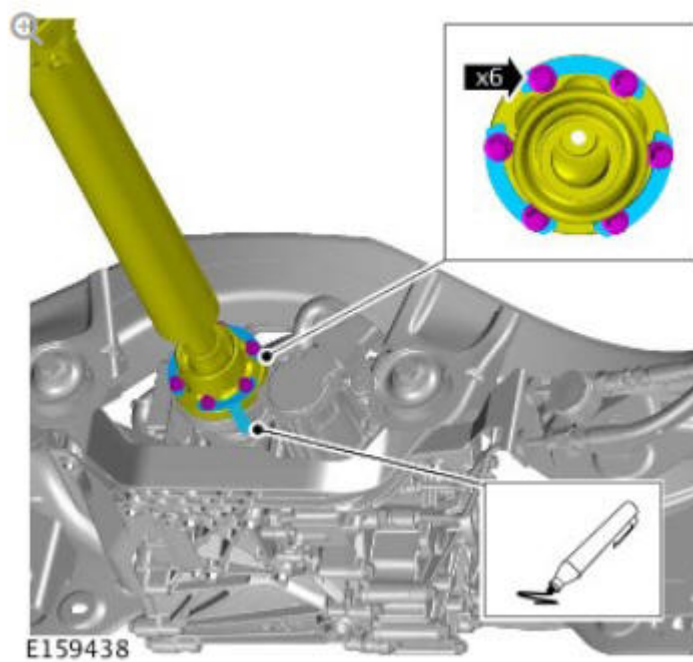
Refer to: Exhaust System (309-00A Exhaust System - GTDi 2.0L Petrol/GTDi 2.0L Petrol - SULEV, Removal and Installation).

Refer to: Exhaust System (309-00B Exhaust System - TD4 2.2L Diesel, Removal and Installation).

Refer to: Rear Silencer (309-00C Exhaust System - INGENIUM I4 2.0L Diesel, Removal and Installation).

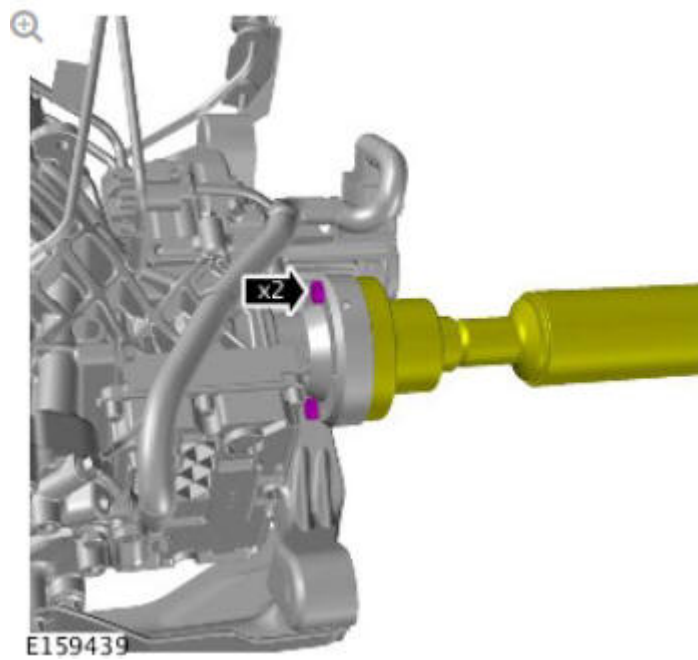
NOTE:

Mark the position of the driveshaft flange in relation to the drive pinion flange damper.



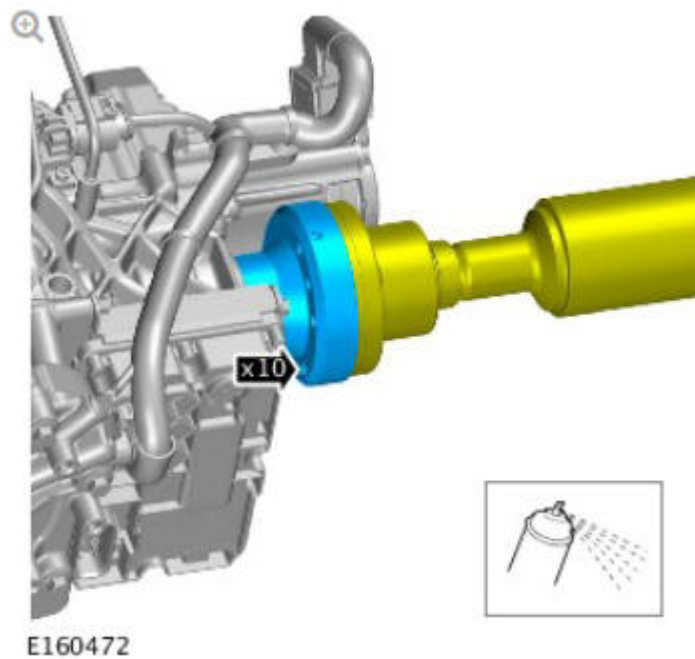
NOTE:

If equipped.



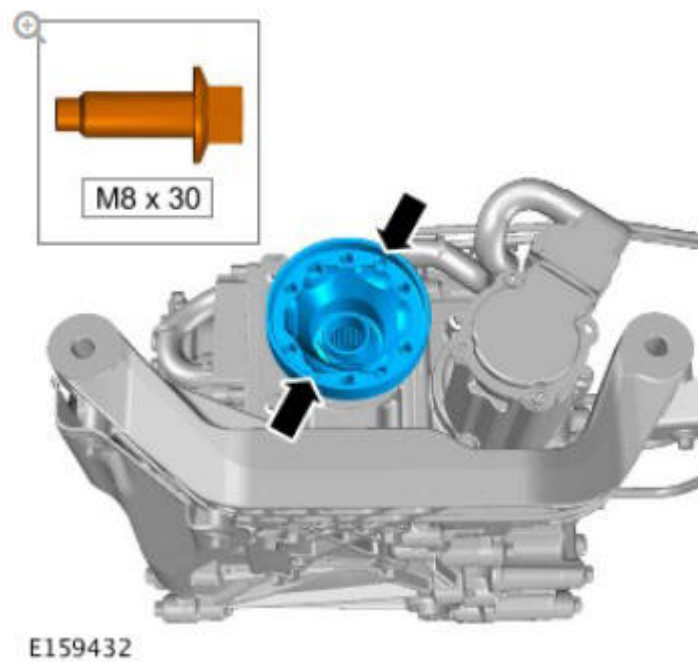
NOTE:

Use penetrating oil - spray through the driveshaft bolt holes as shown.



NOTE:

Driveshaft joint shown removed for clarity.

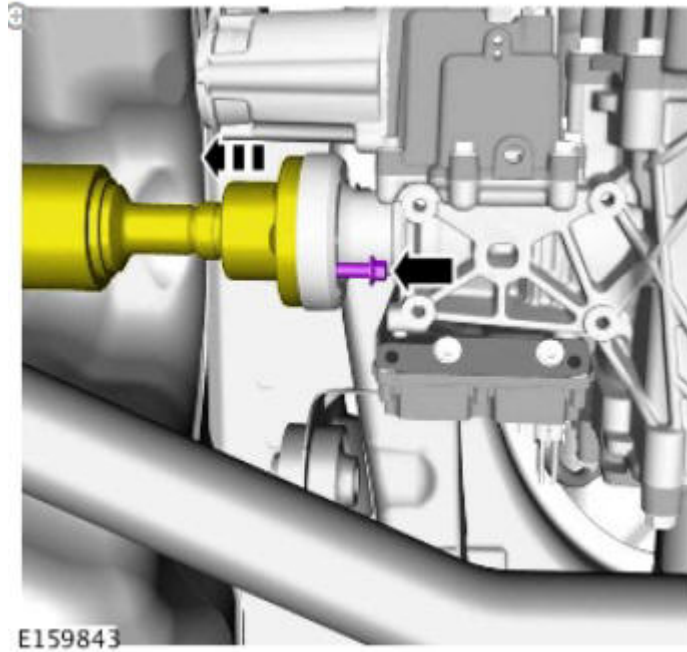


CAUTION:

Install the bolt finger tight.

NOTE:

Alternate tighten the bolts until the movement of the driveshaft joint is detected.

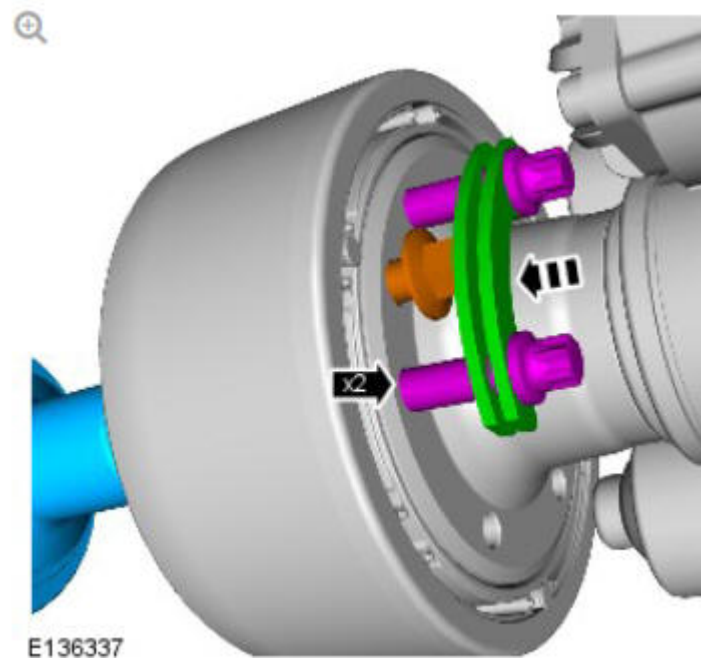


CAUTIONS:

- **Discard the bolts.**
- **Make sure that the driveshaft is supported with suitable retaining straps.**

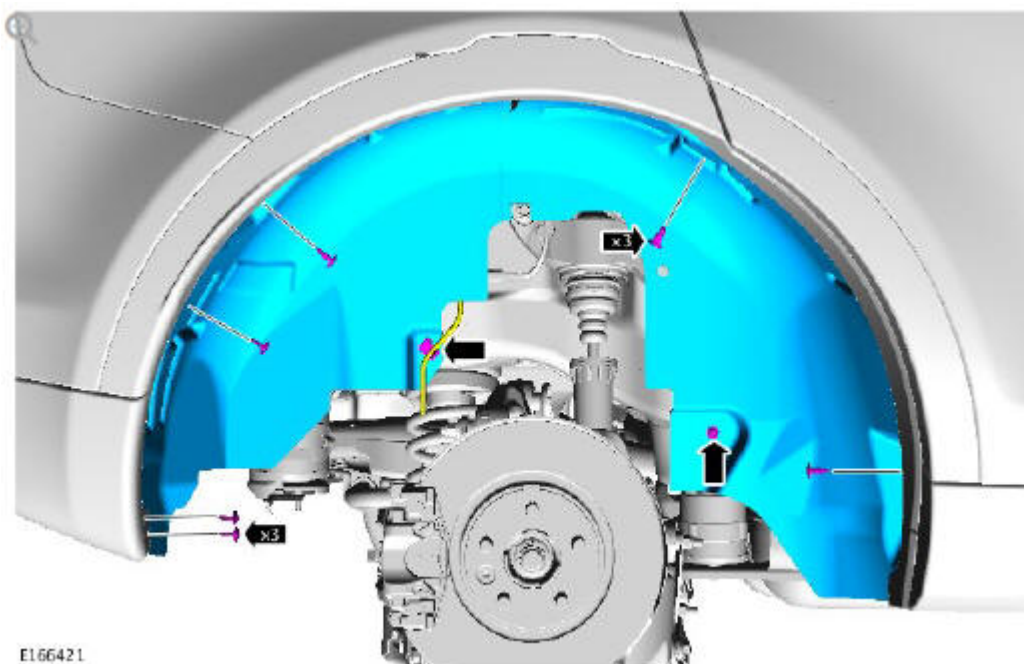
NOTE:

Repeat above steps until the driveshaft joint is fully released.

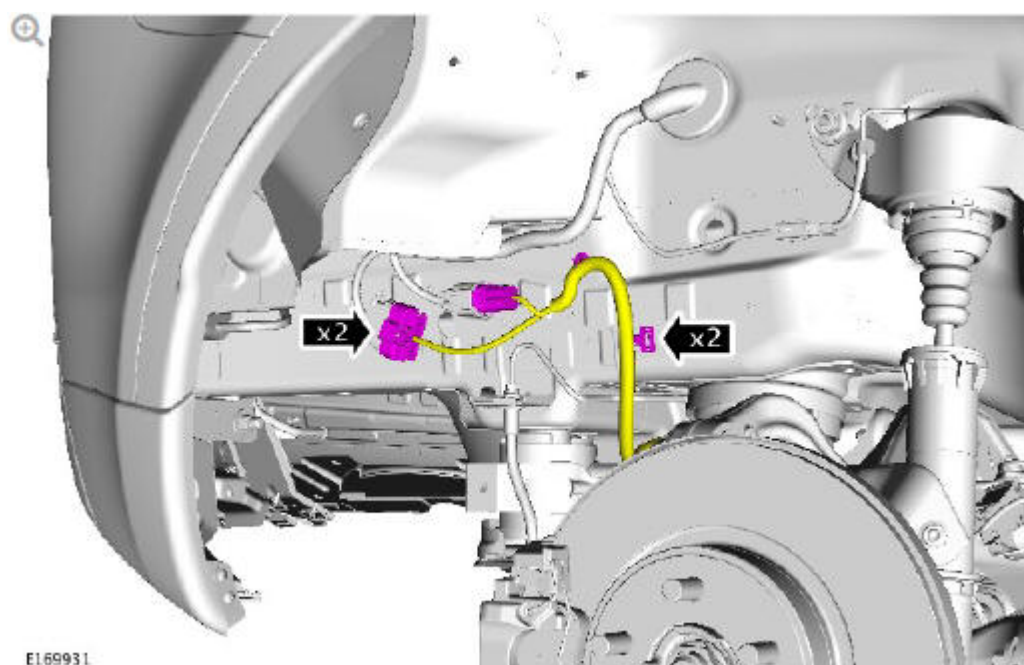


Remove the bolts, turn the propshaft and repeat the above step at the other unthreaded hole.

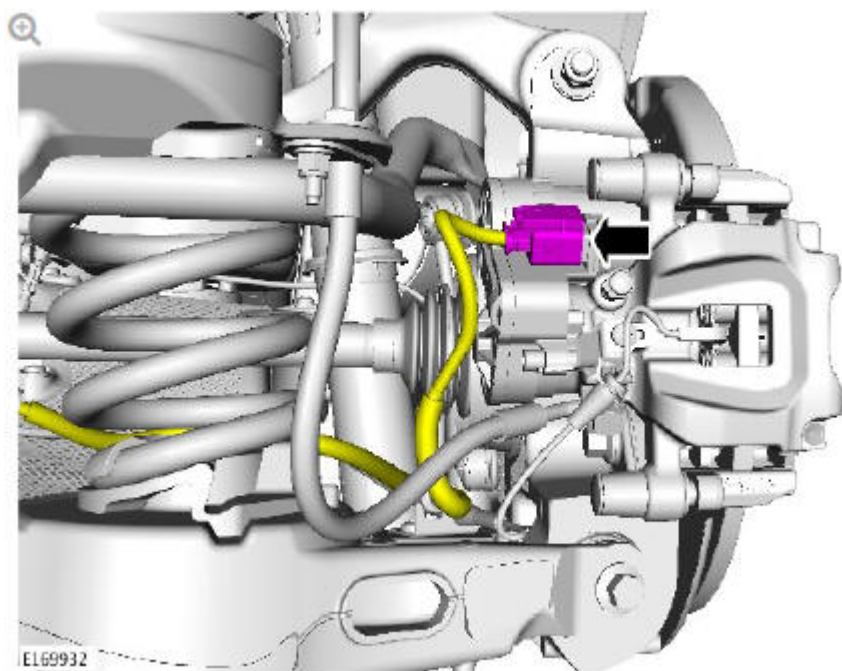
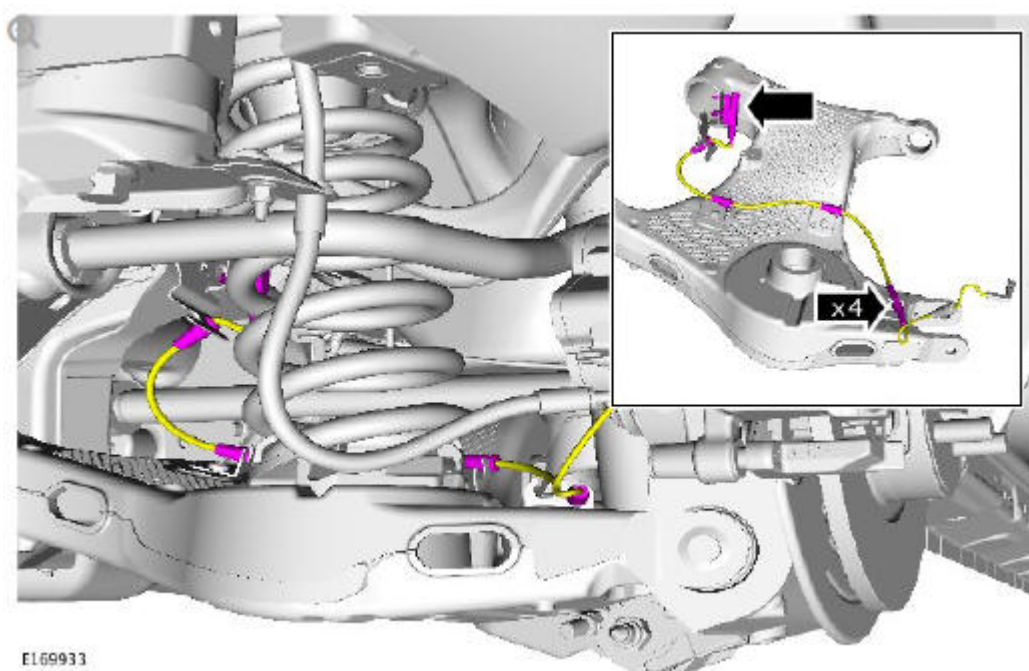
Refer to: Rear Suspension Height Sensor (204-05 Vehicle Dynamic Suspension, Removal and Installation).

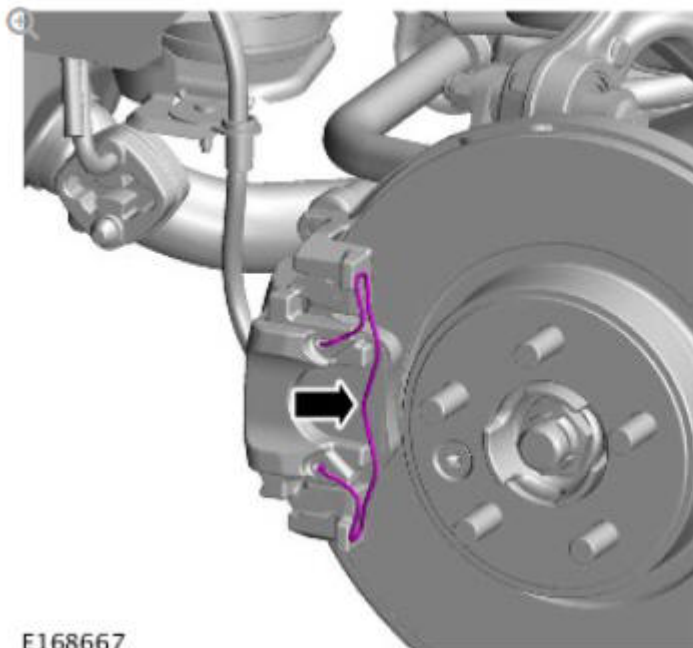


E166421



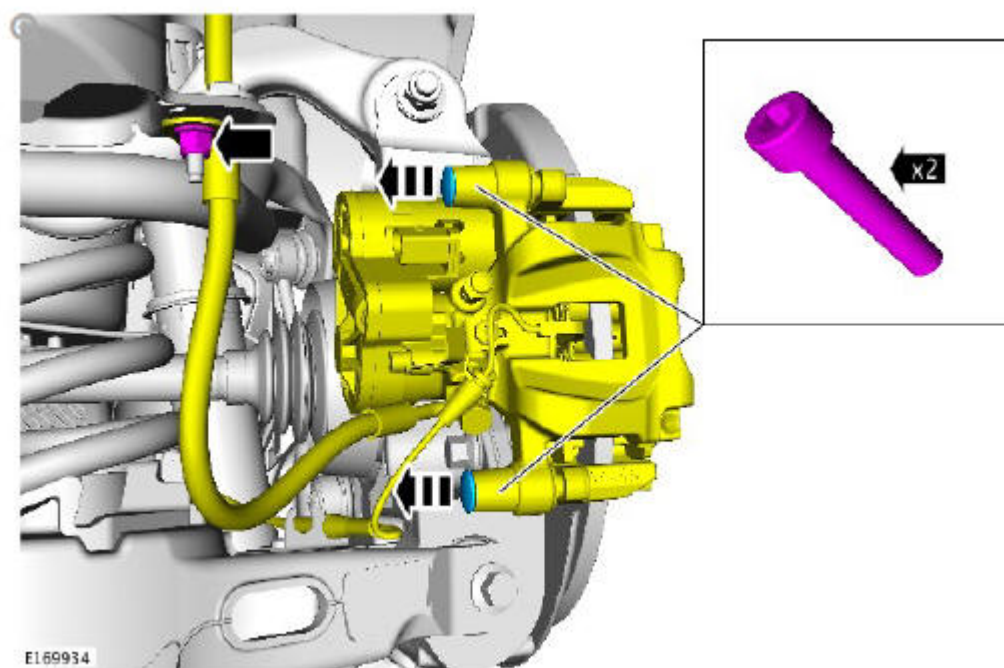
E169931





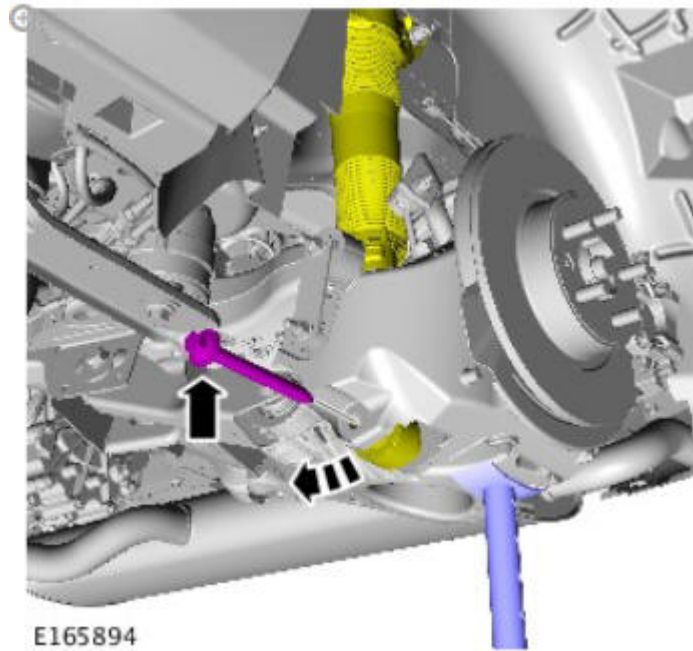
CAUTION:

Make sure that the brake hose does not support the full weight of the brake caliper assembly.



CAUTION:

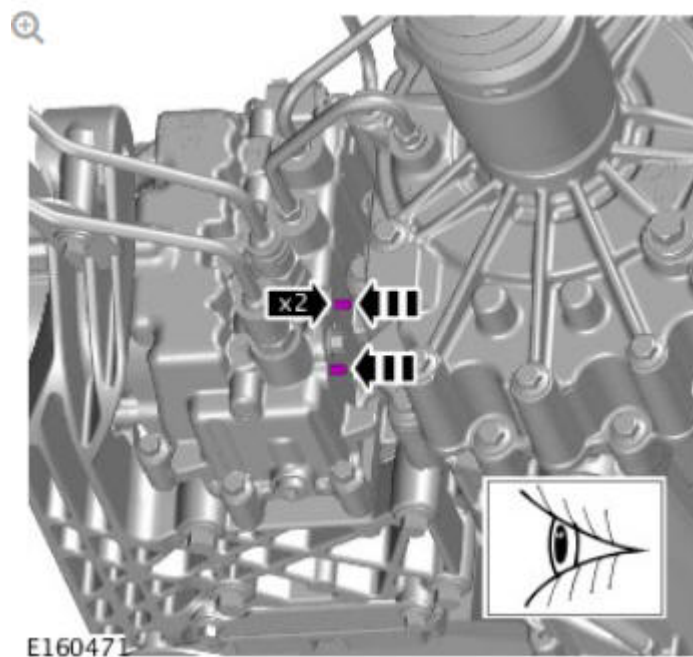
Discard the nut and bolt.



Repeat steps 11 to 19 for the other side.

NOTES:

- *Vehicles with Active driveline.*
- *Before disconnecting any components of the active driveline hydraulic system, the two pipe port closing valve must be closed manually as illustrated.*



CAUTIONS:

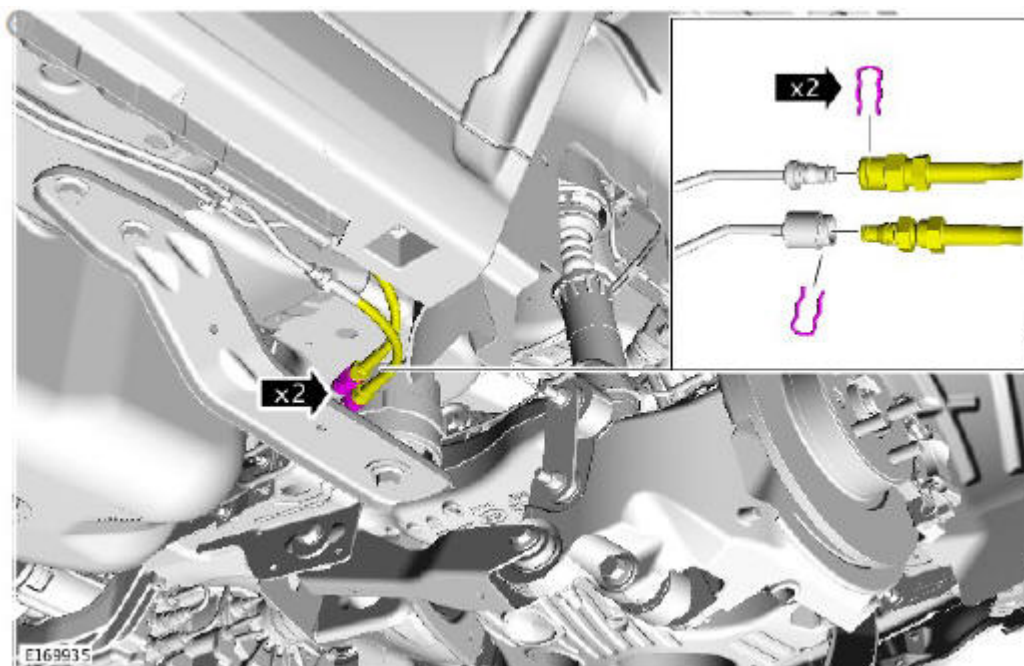
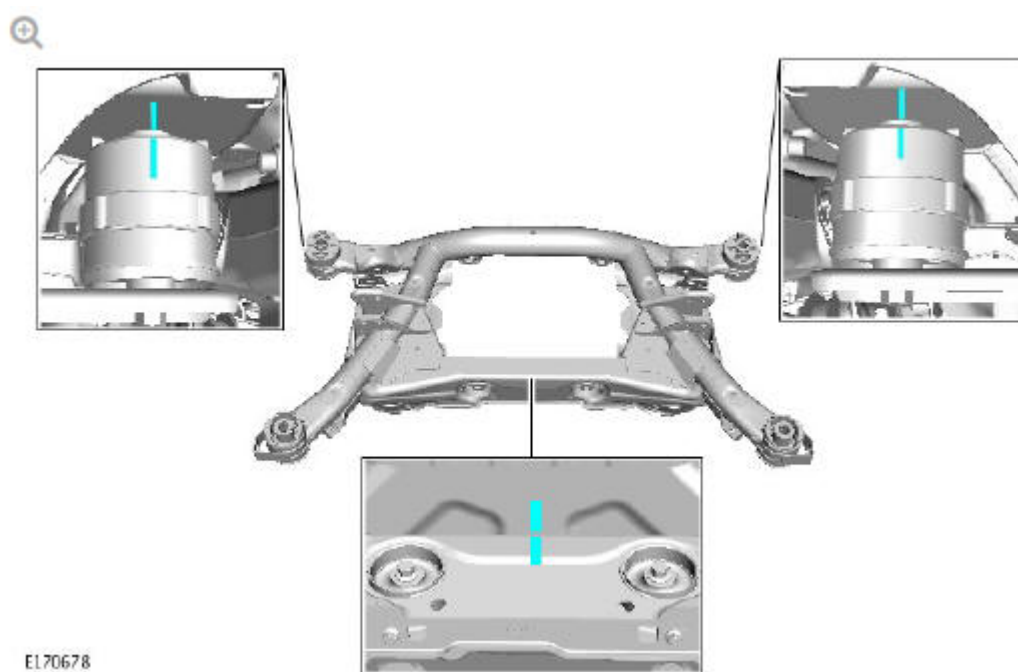
Be prepared to collect escaping fluids.

Before disconnecting any components, make sure the area is clean and free from foreign material.

When disconnected all openings must be sealed.

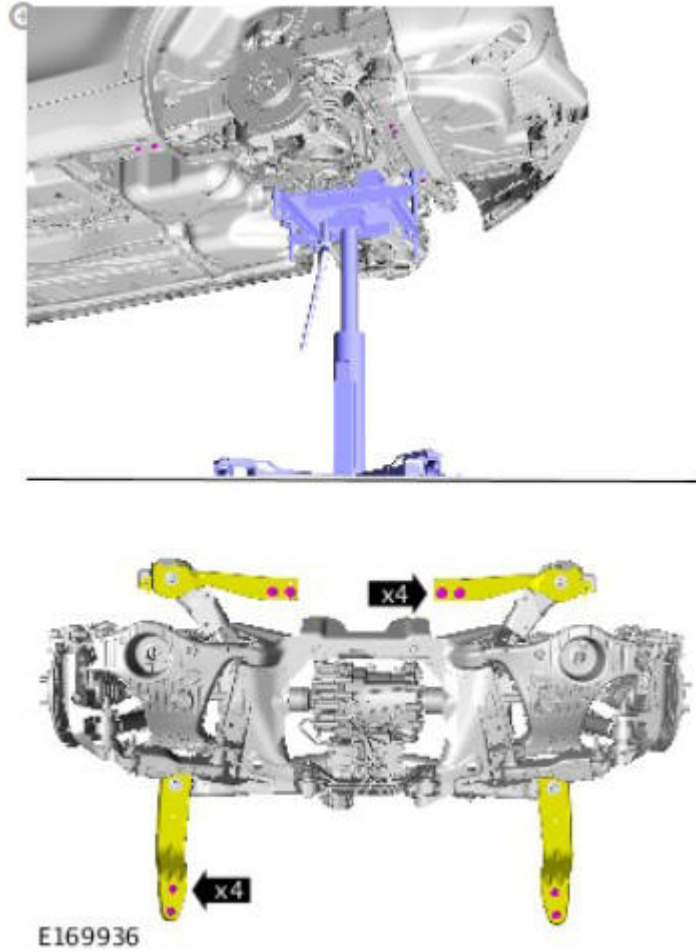
NOTE:

Vehicles with Active driveline.



EL70678

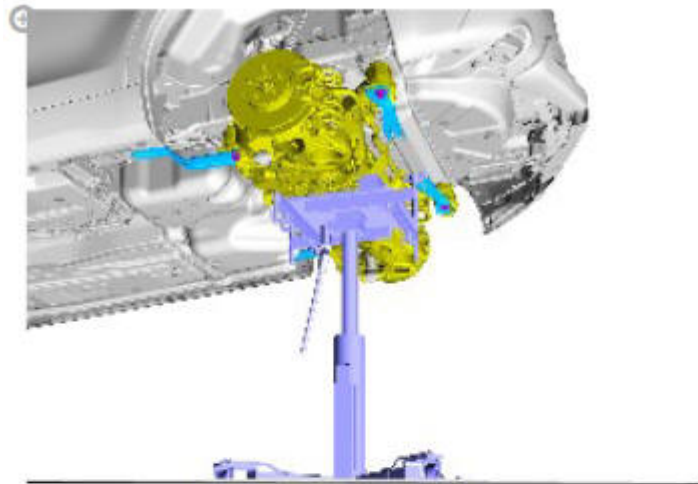
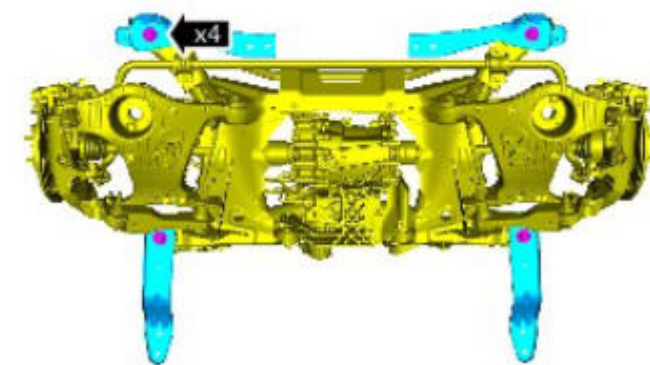
To aid installation, use a straight edge to mark the position of the subframe in relation to the body at the points shown.



General Equipment: Transmission jack

CAUTION:

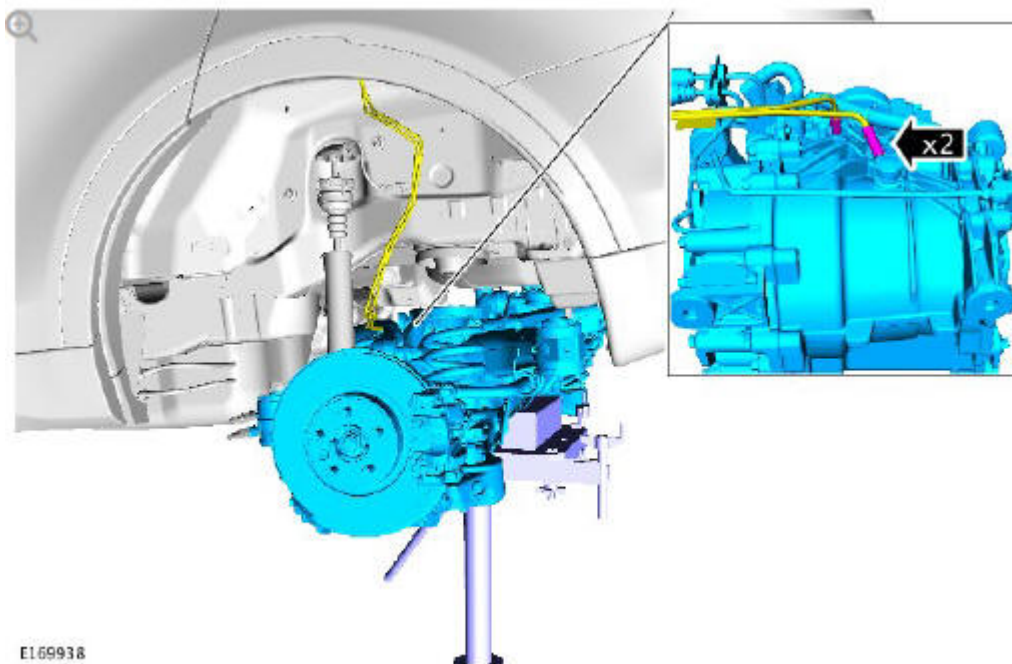
Discard the bolts.



E169937

NOTE:

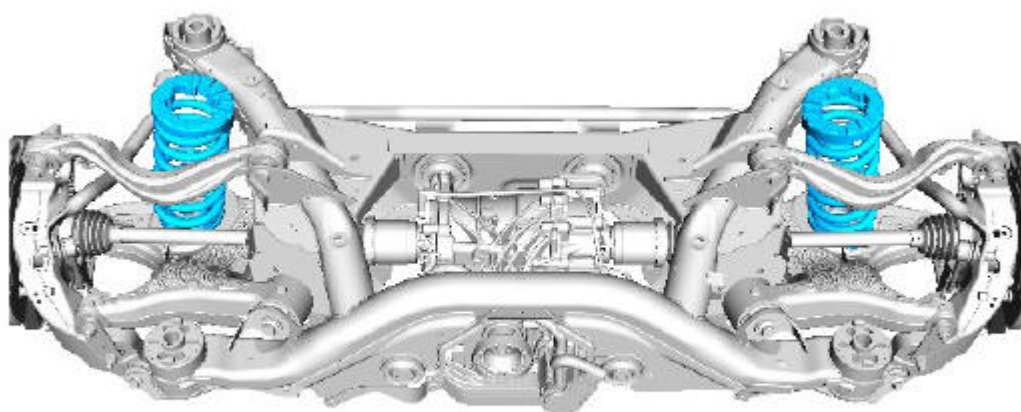
Do not disassemble further if the component is removed for access only.



E169938

NOTE:

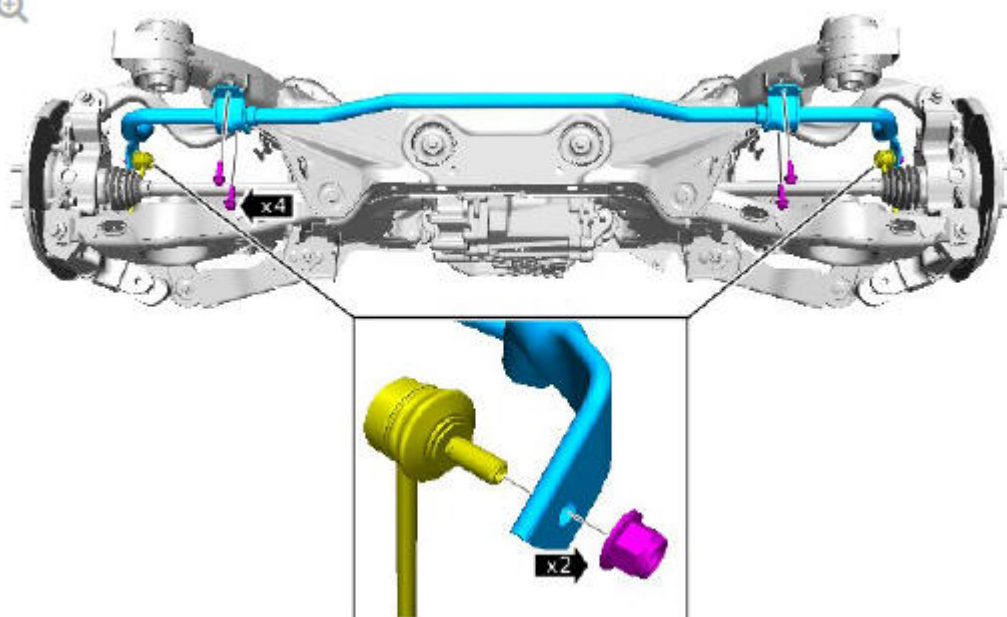
Note the orientation of the components prior to removal.



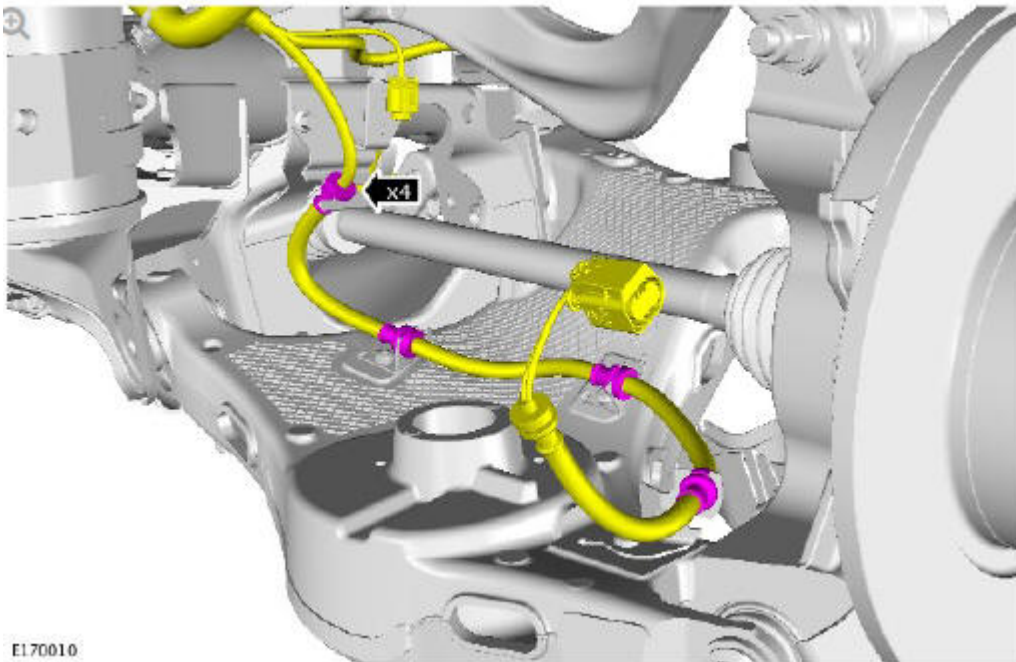
E170680

CAUTION:

Discard the nuts.



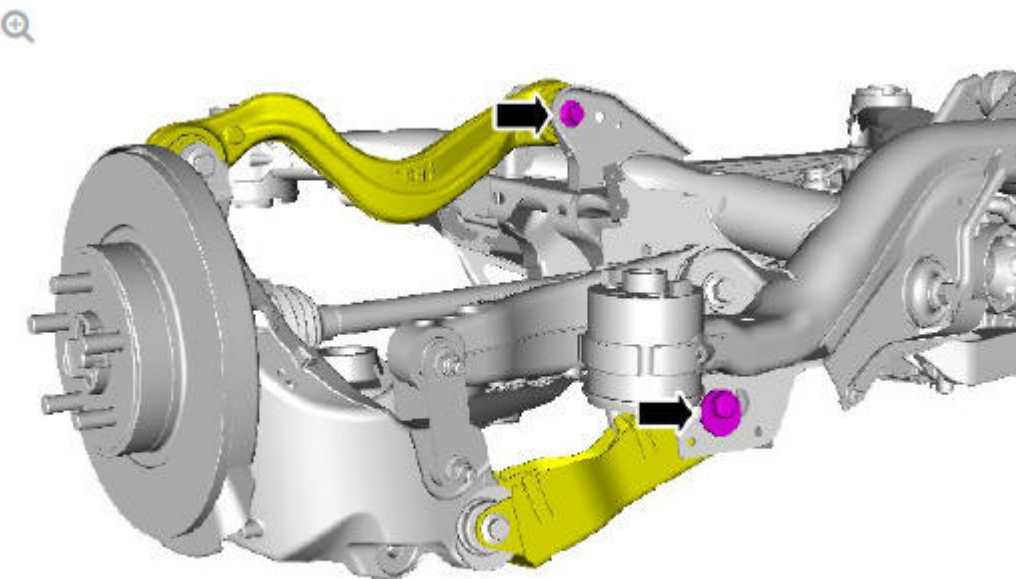
E170017



E170010

CAUTIONS:

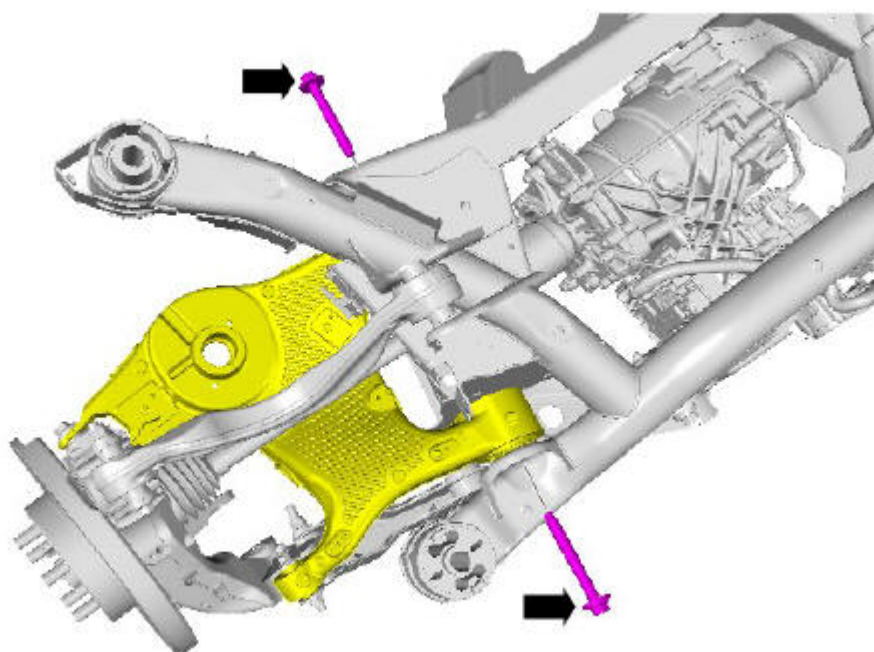
- Discard the Upper arm nut and bolt.
- Discard the Toe arm nut.



E170011

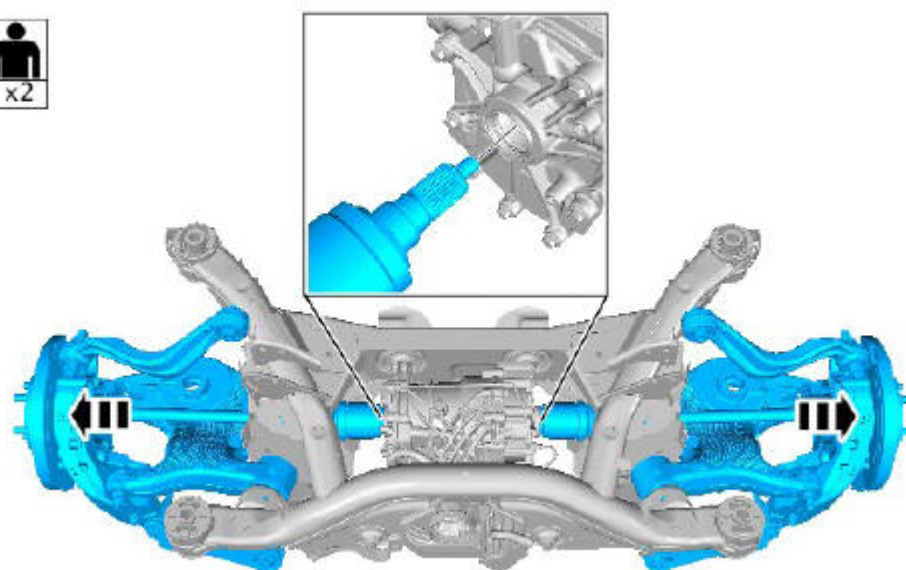
CAUTION:

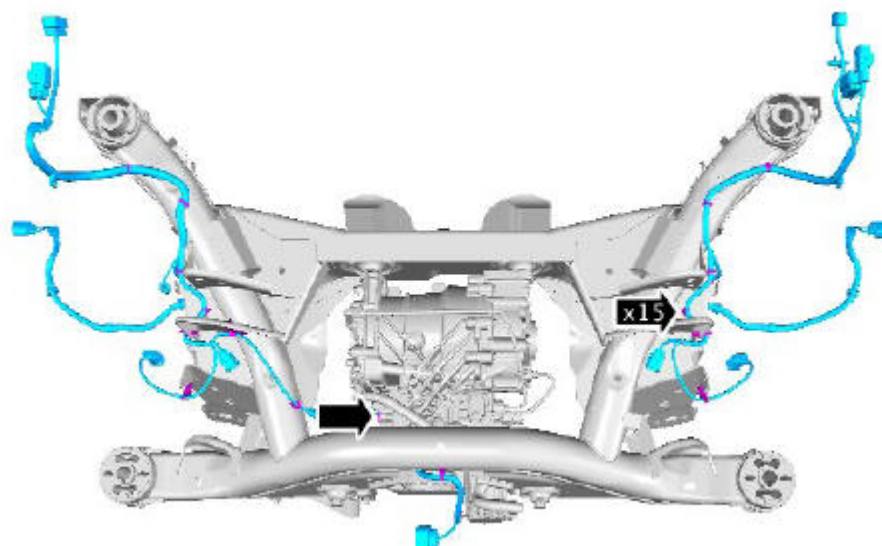
Discard the nuts and bolts.



E1.70012

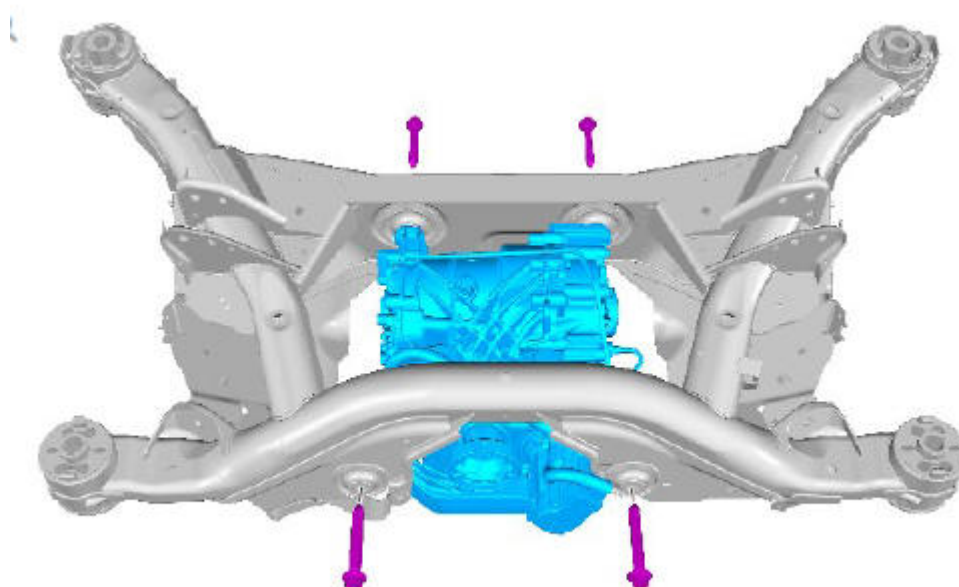
Repeat steps 28 to 30 for the other side.

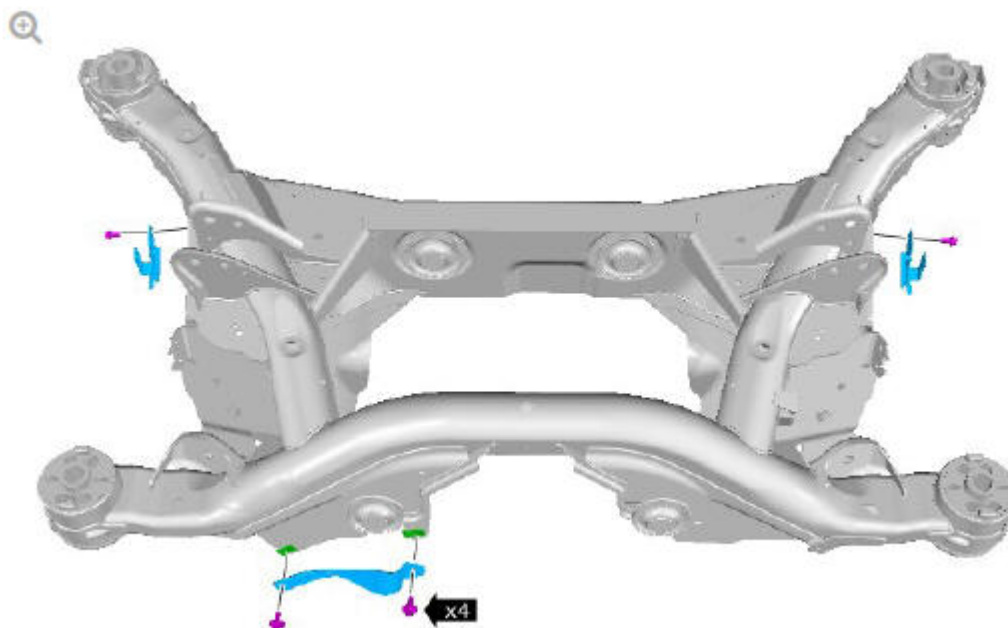




CAUTION:

Discard the bolts.





ne

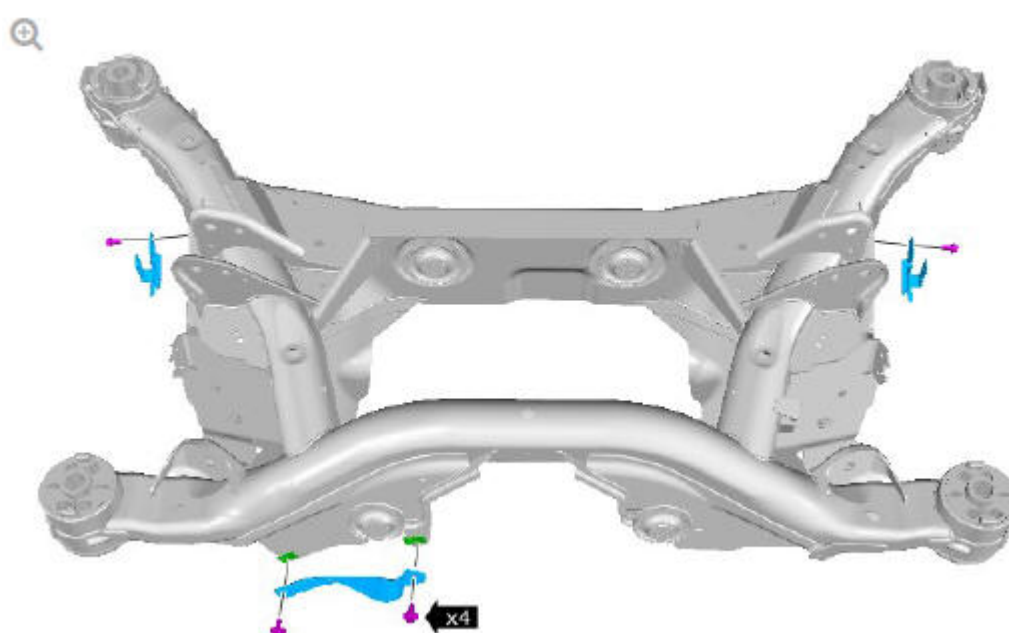
Uni-body, Subframe and Mounting System Rear Subframe - AWD (G1779461)Uni-body, Subframe and Mounting System Rear Subframe - AWD (G1779461) - Installation

ne

Uni-кузов, подрамник и крепление система задний подрамник - AWD - установка

Uni-body, Subframe and Mounting System Rear Subframe - AWD (G1779461) - Installation

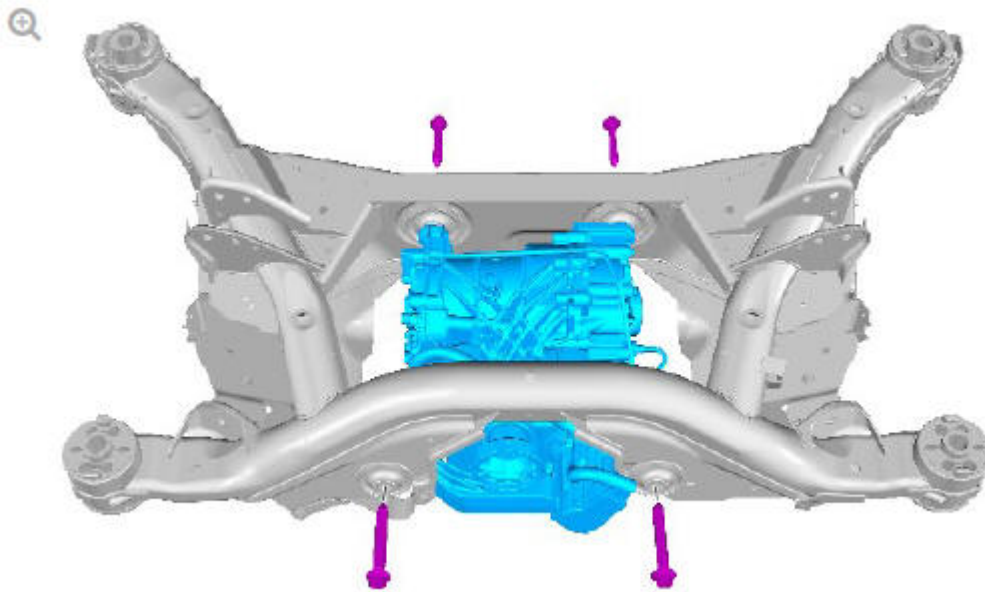
Installation



Torque: 9 Nm

CAUTION:

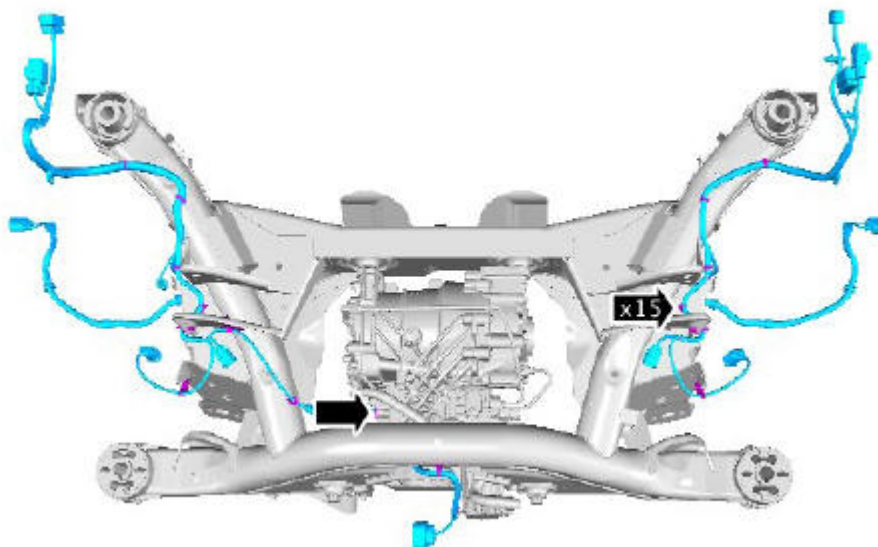
Make sure that new bolts are installed.

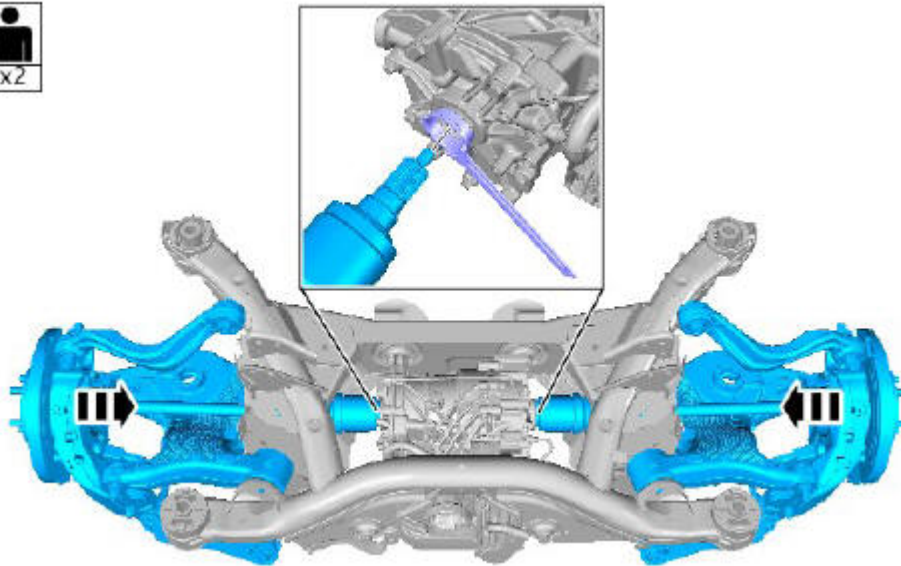


Torque:

Front bolts 175 Nm

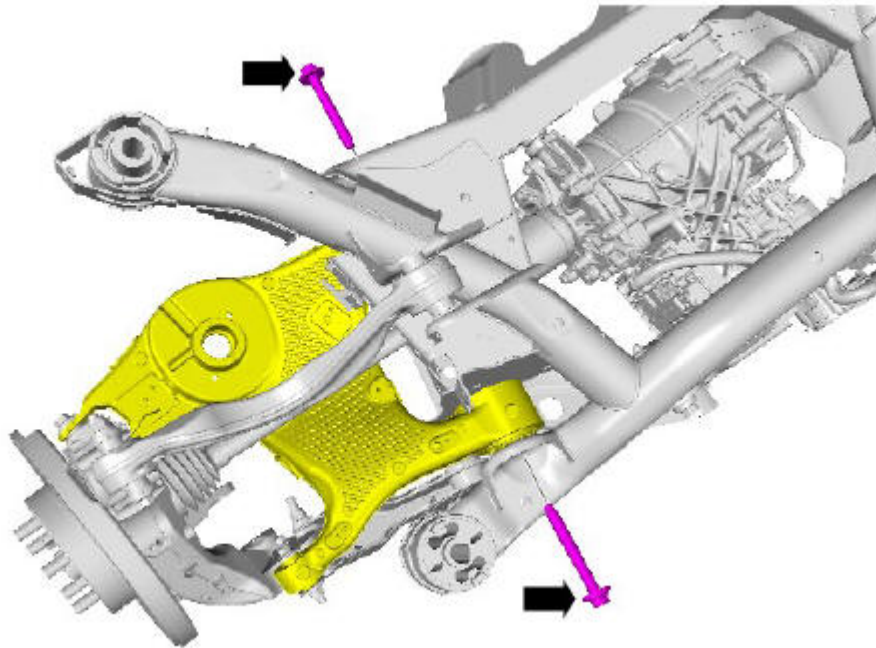
Rear bolts 110 Nm





CAUTIONS:

- Make sure that new nuts and bolts are installed.
- Nuts and bolts must be tightened with vehicle at normal ride height.



E170012

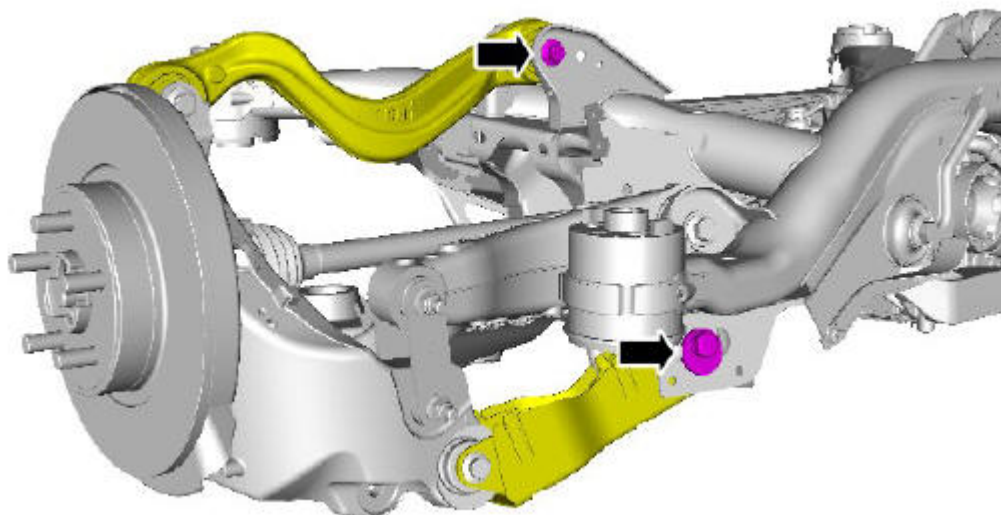
Torque:

Stage 1: 70 Nm

Stage 2: 240°

CAUTIONS:

- Make sure that a new Upper arm nut and bolt are installed.
- Make sure that a new toe link nut is installed.
- Nuts and bolts must be tightened with vehicle at normal ride height.



Torque:

Upper arm

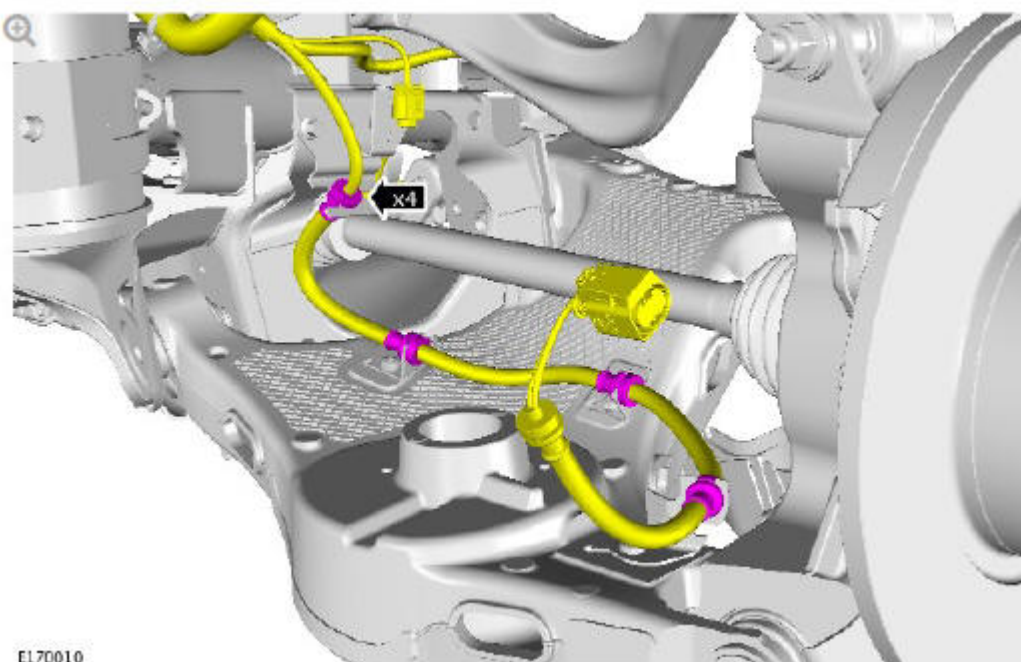
Stage 1: 40 Nm

Stage 2: 180°

Toe link

Stage 1: 50 Nm

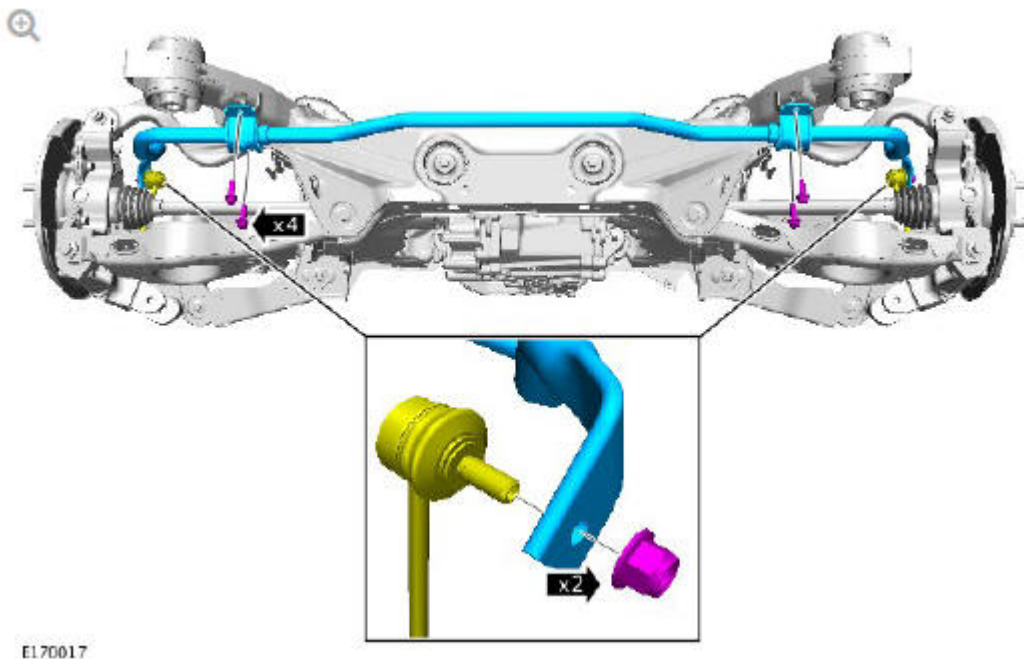
Stage 2: 60°



Repeat steps 5 to 7 for the other side.

CAUTION:

Make sure that new nuts are installed



E170017

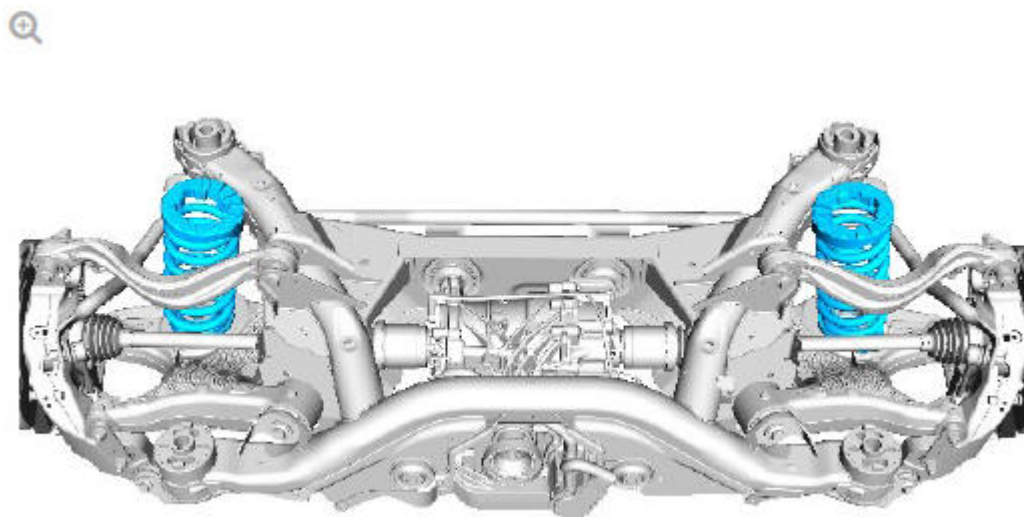
Torque:

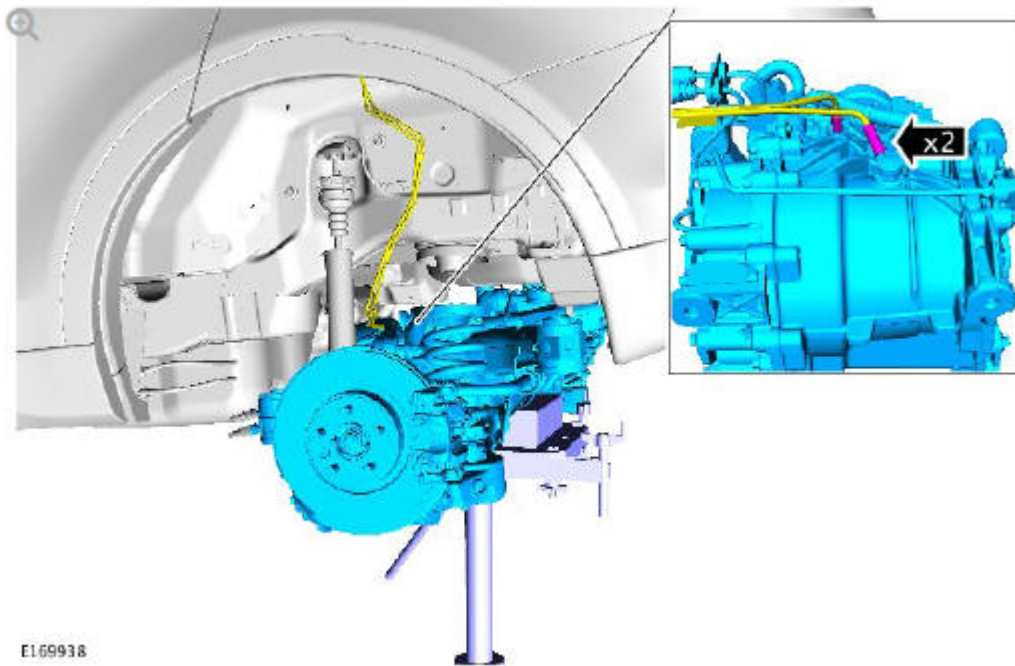
Bolts 60 Nm

Nuts 60 Nm

NOTE:

Make sure that the components are installed to the noted removal position.



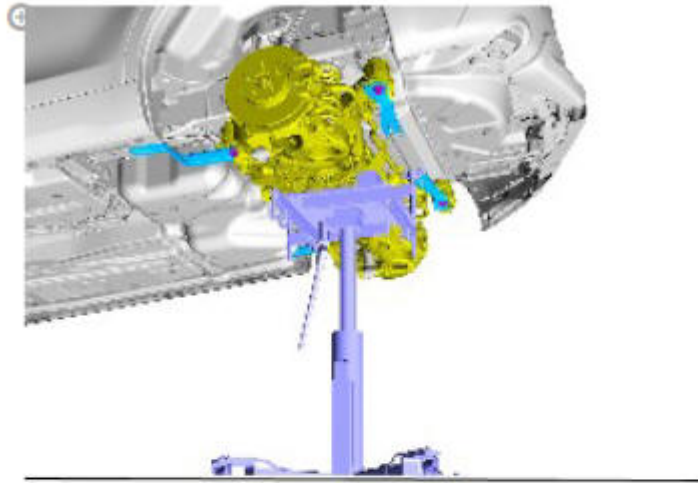
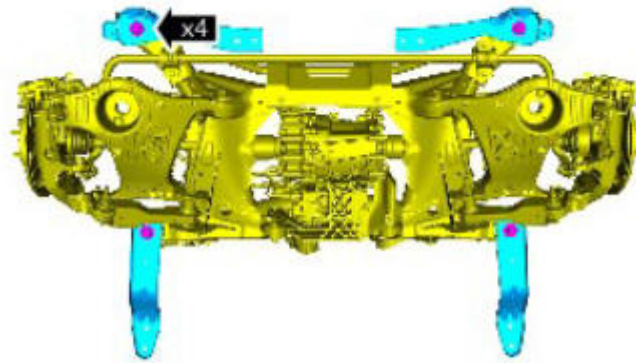


Use the alignment marks to aid installation.

General Equipment: Transmission jack

CAUTION:

Make sure that new bolts are installed.

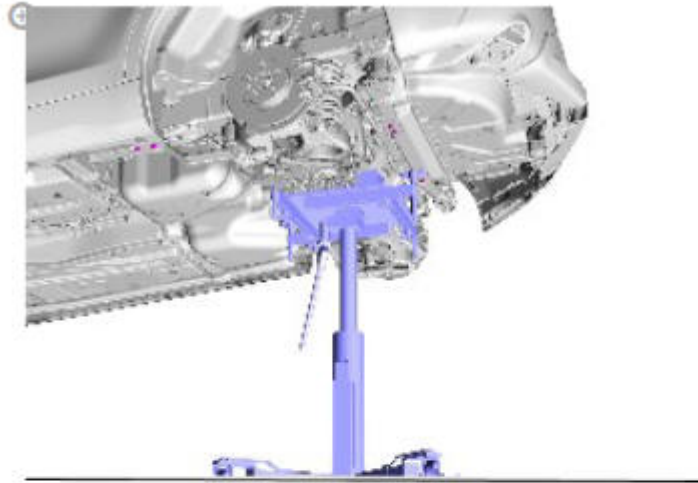
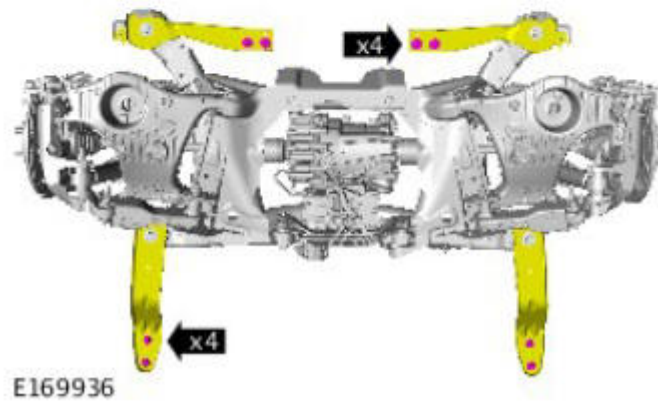


E169937

Torque:

Stage 1: 110 Nm

Stage 2: 120°



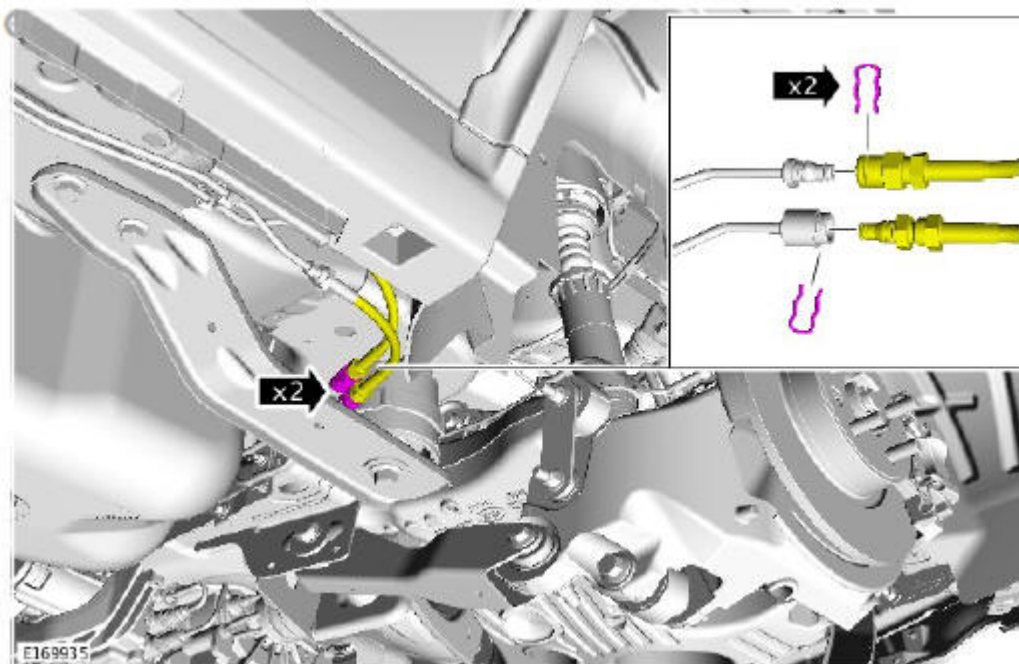
Torque:

Front 116 Nm

Rear 80 Nm

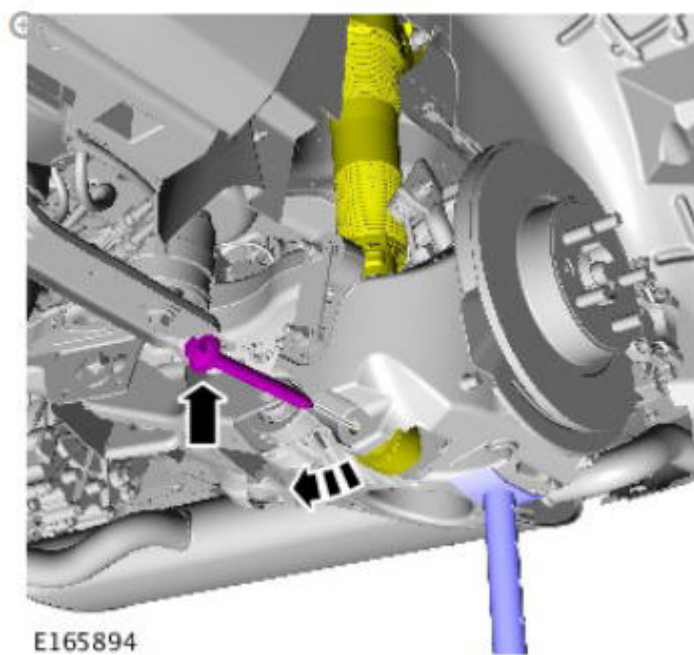
NOTE:

Vehicles with Active driveline.

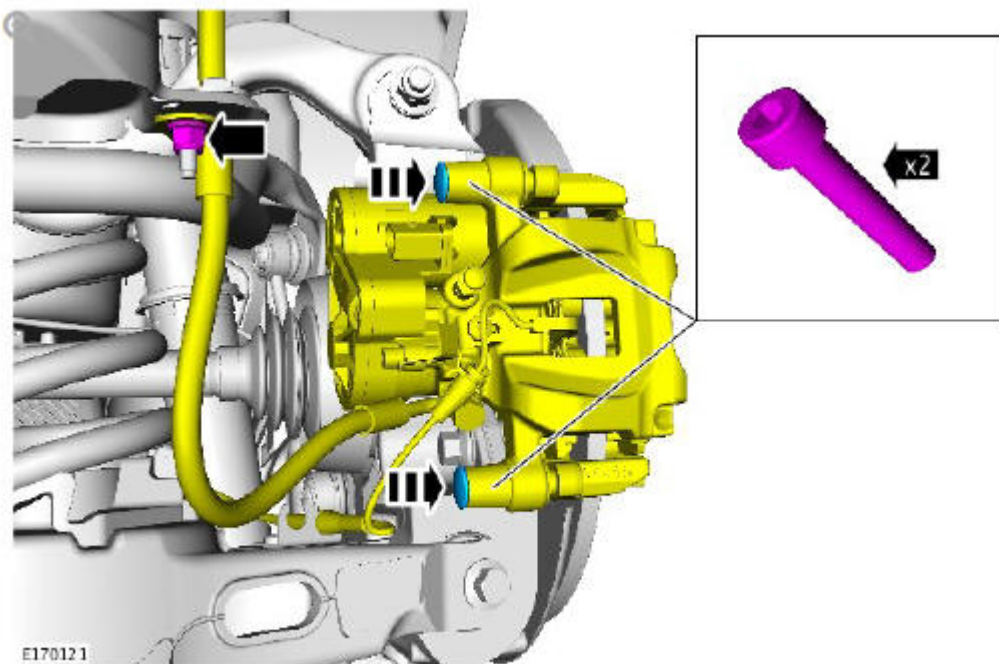


CAUTIONS:

- Make sure that a new nut and bolt is installed.
- Nuts and bolts must be tightened with vehicle at normal ride height.



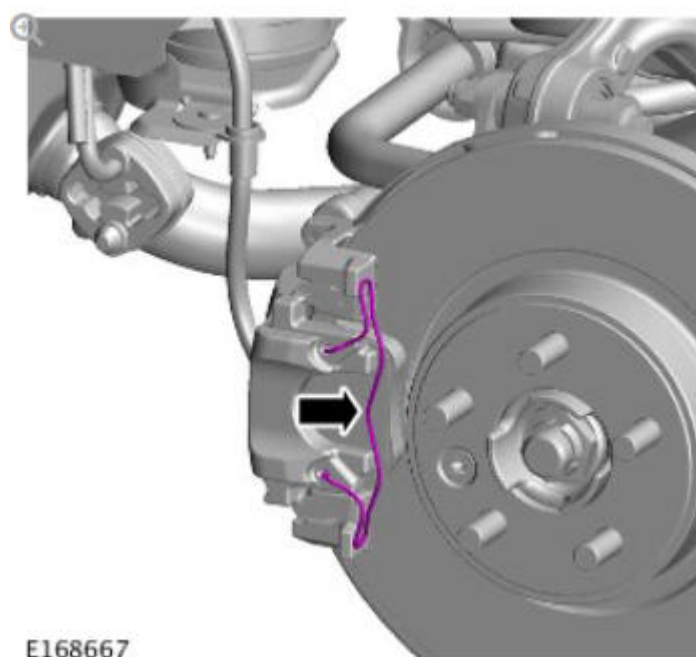
Torque: 170 Nm

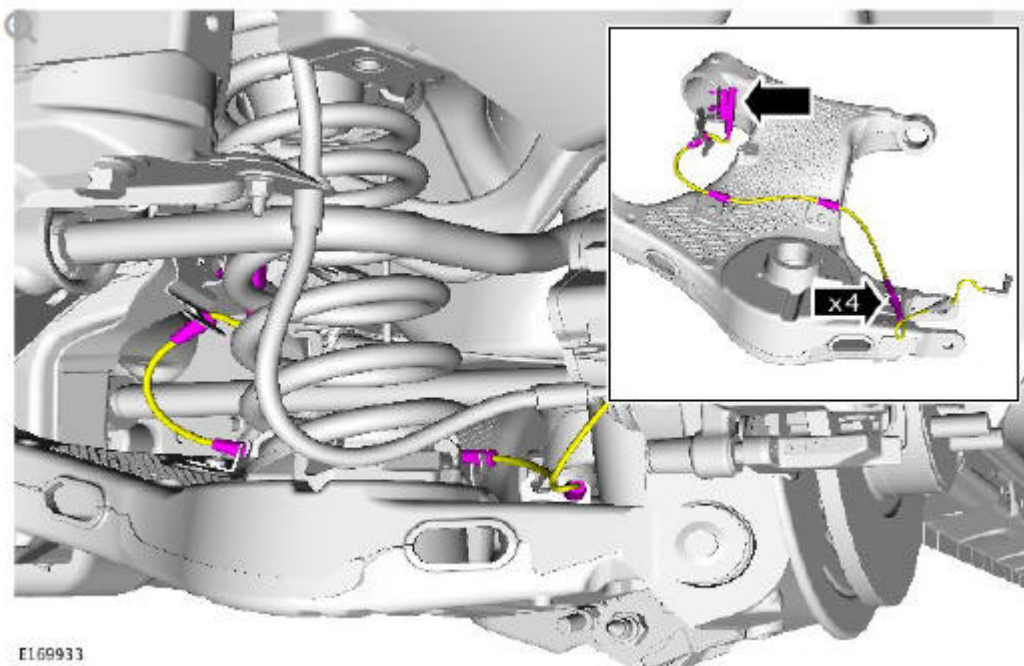
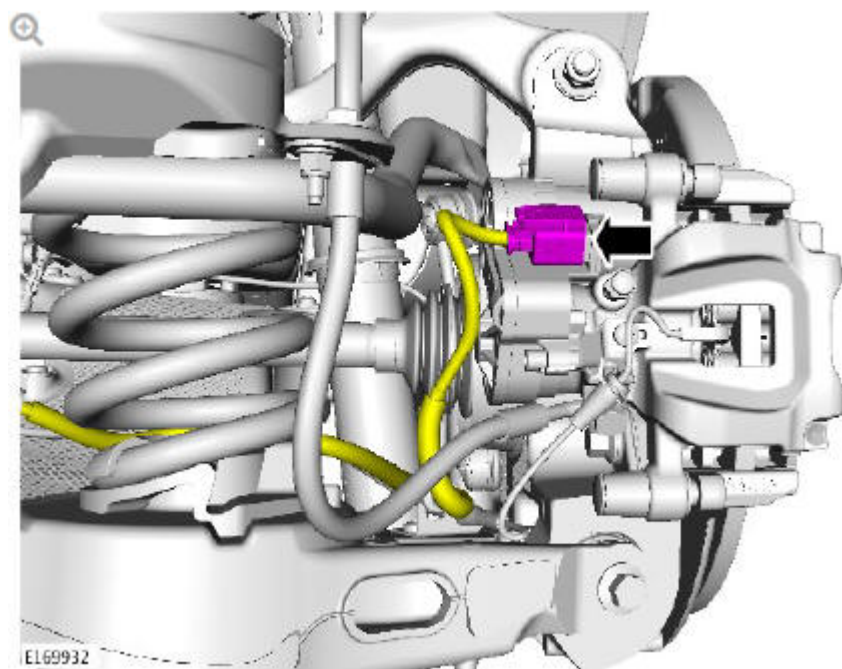


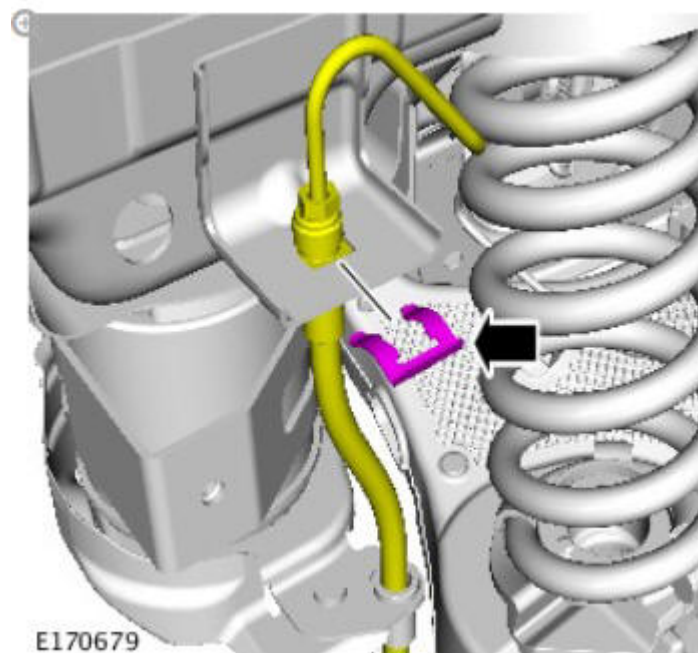
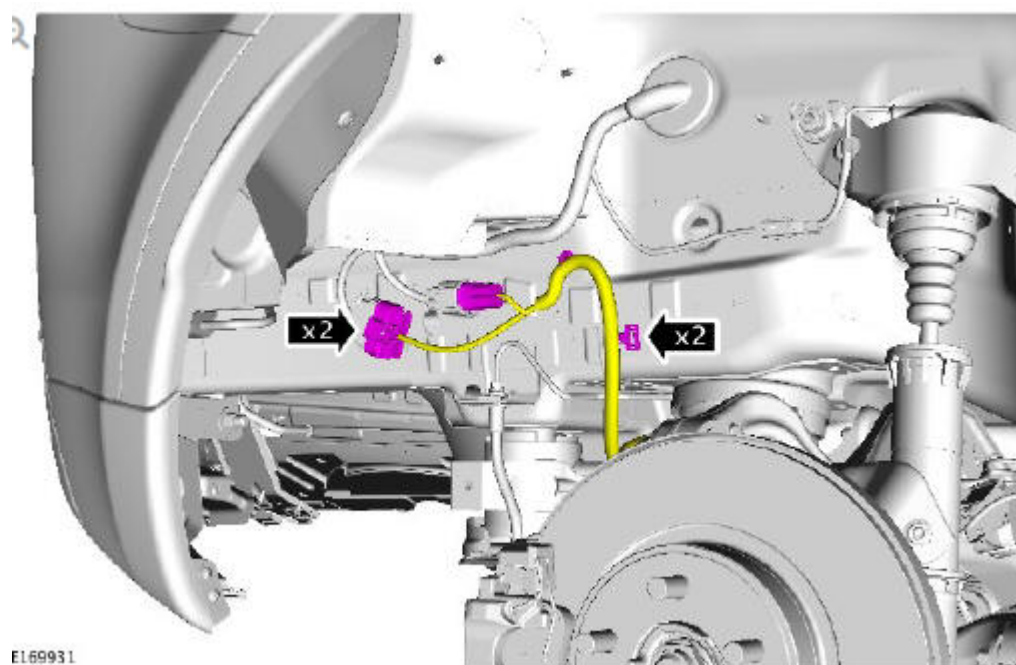
Torque:

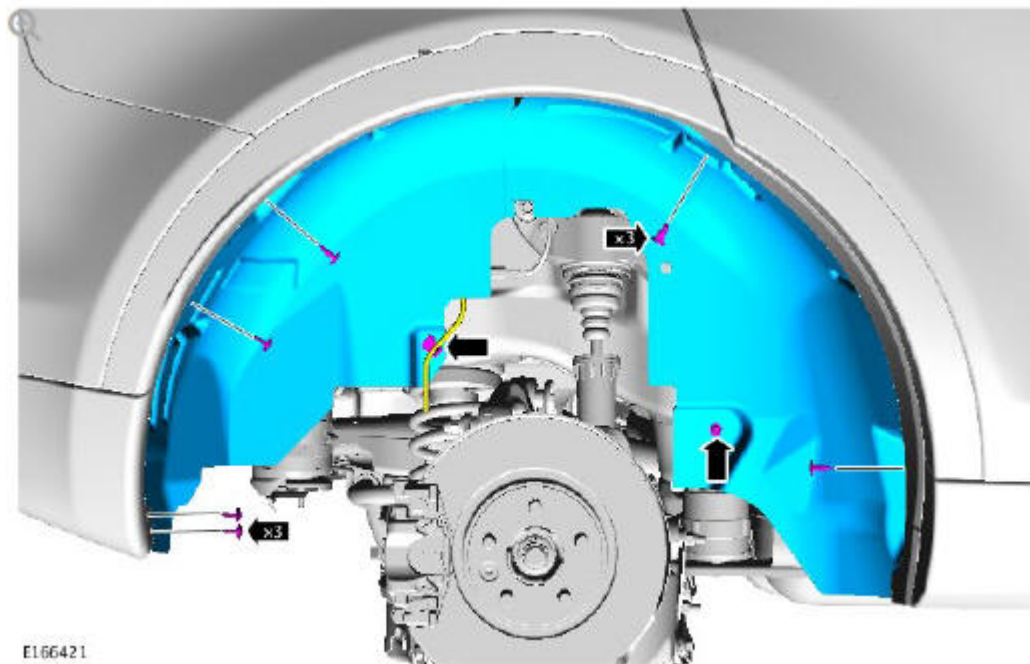
Bolts 28 Nm

Nut 10 Nm







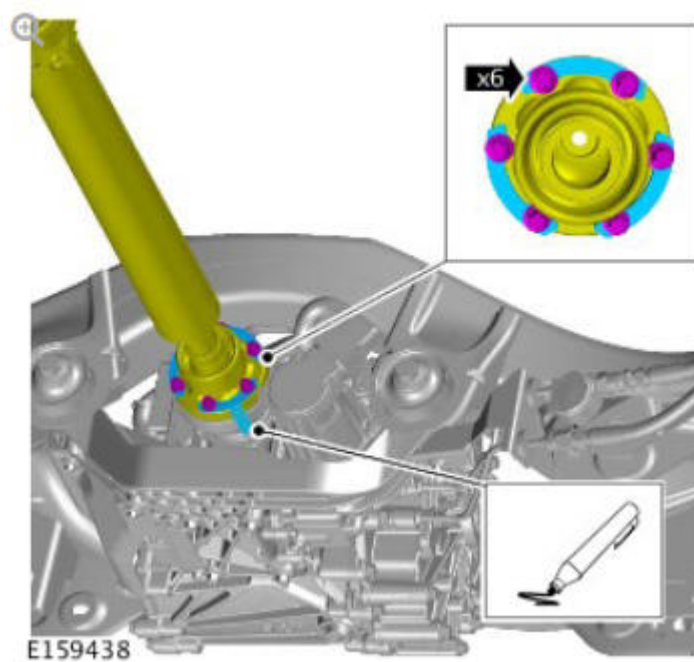


Refer to: Rear Suspension Height Sensor (204-05 Vehicle Dynamic Suspension, Removal and Installation).

Repeat steps 15 to 23 for the other side.

CAUTION:

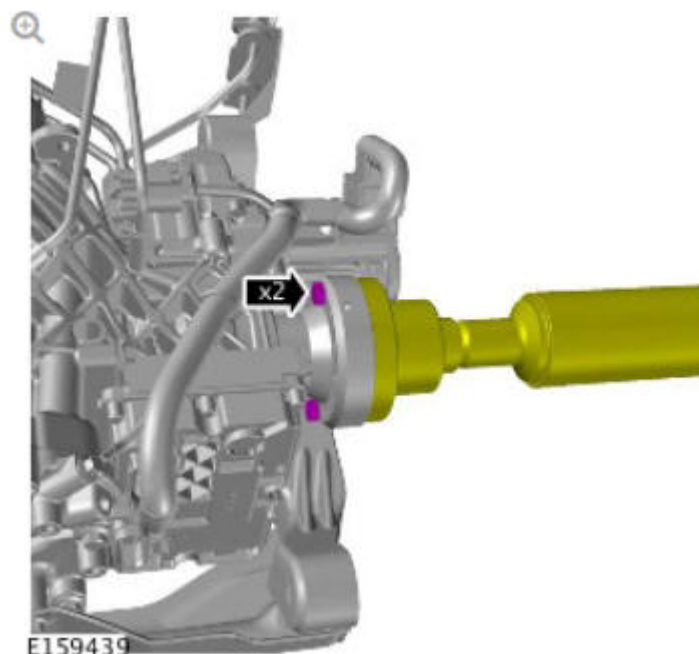
Make sure that new bolts are installed.



Torque: 40 Nm

NOTE:

If equipped.



Refer to: Exhaust System (309-00A Exhaust System - GTDi 2.0L Petrol/GTDi 2.0L Petrol - SULEV, Removal and Installation).

Refer to: Exhaust System (309-00B Exhaust System - TD4 2.2L Diesel, Removal and Installation).

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

NOTE:

Vehicles with Active driveline.

Refer to: Hydraulic System Draining, Filling and Bleeding (205-02B Rear Drive Axle/Differential - Vehicles With: Active Driveline, General Procedures).

Refer to: Electronic Parking Brake Service Mode Activation and Deactivation (206-05 Parking Brake and Actuation, General Procedures).

CAUTION:

It may be necessary to adjust the position the subframe(s) in order to achieve the correct wheel base, axle set-back and axle lateral off-set

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

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Uni-body, Subframe and Mounting System Rear Subframe - AWD (G1779461) - RemovalUni-body, Subframe and Mounting System Rear Subframe - FWD (G1799046)

ne

Uni-кузов, подрамник и крепление система задний подрамник - FWD

Uni-body, Subframe and Mounting System Rear Subframe - FWD (G1799046)

- Uni-body, Subframe and Mounting System Rear Subframe - FWD (G1799046) - Removal
- Uni-body, Subframe and Mounting System Rear Subframe - FWD (G1799046) - Installation

ne.

Uni-body, Subframe and Mounting System Rear Subframe - AWD (G1779461) - InstallationUni-body,
Subframe and Mounting System Rear Subframe - FWD (G1799046) - Removal

ne.

Uni-кузов, подрамник и крепление система задний подрамник - FWD - снятие

Uni-body, Subframe and Mounting System Rear Subframe - FWD (G1799046) - Removal

PART(S)

STEP	REPLACE PART / RENEW PART	PART NAME
Installation Step 3	Renew Part	Lower control arm nut and bolt
Installation Step 4	Renew Part	Toe link to knuckle nut and bolt
Installation Step 4	Renew Part	Toe link nut
Installation Step 7	Renew Part	Stabilizer bar link upper nut
Installation Step 12	Renew Part	Shock absorber to wheel knuckle mounting nut and bolt

REMOVAL

NOTES:

- Some variation in the illustrations may occur, but the essential information is always correct.
- Some components shown removed for clarity.

Refer to: Electronic Parking Brake Service Mode Activation and Deactivation (206-05 Parking Brake and Actuation, General Procedures).

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.

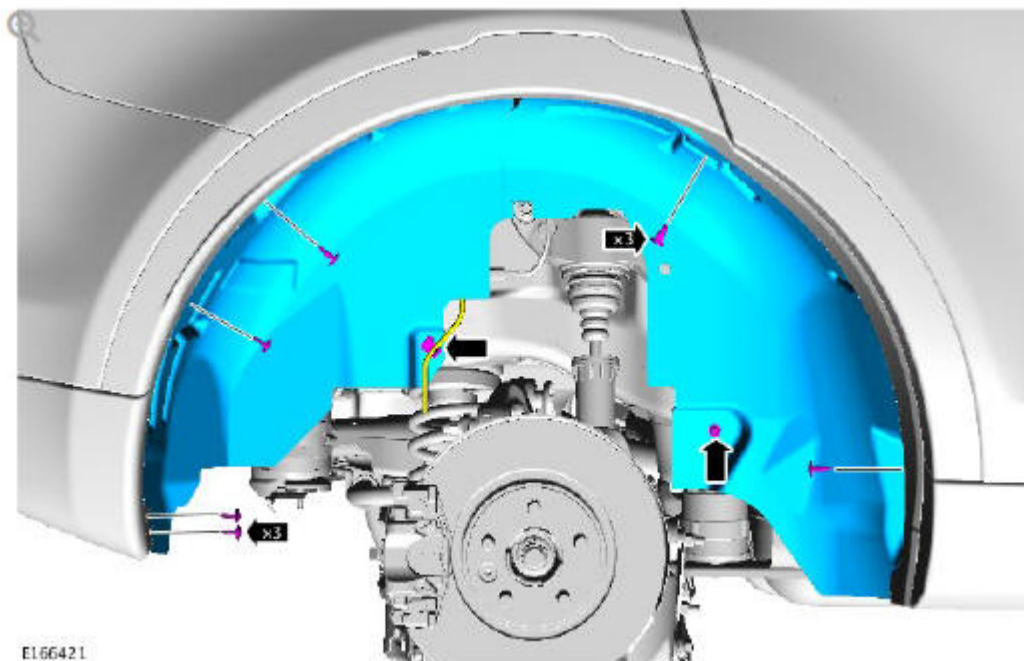
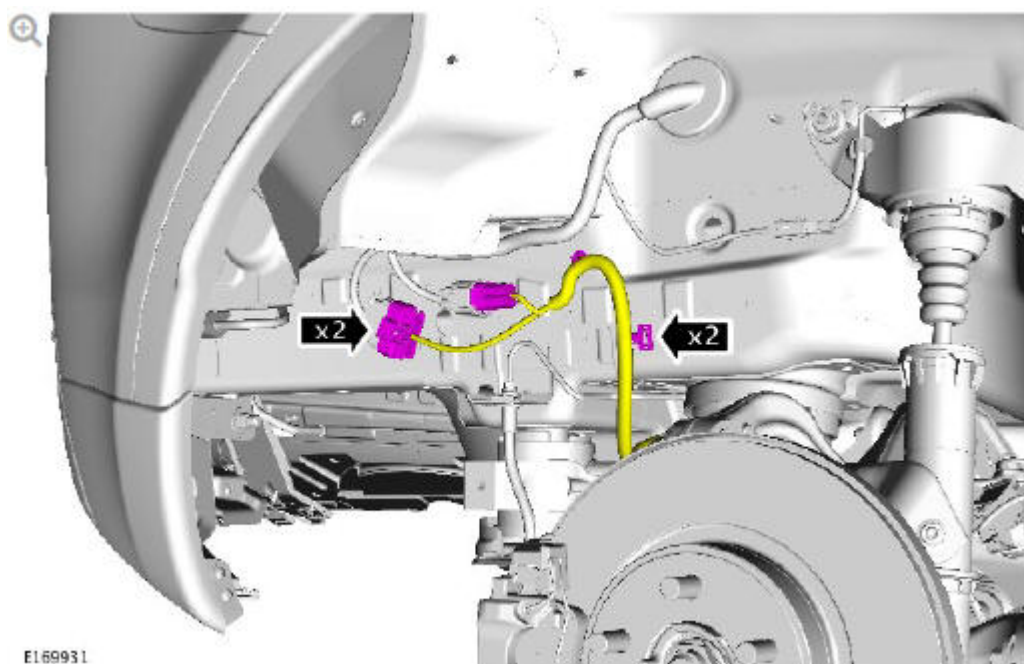
Remove the rear wheels and tires Refer to: Wheel and Tire (204-04 Wheels and Tires, Removal and Installation).

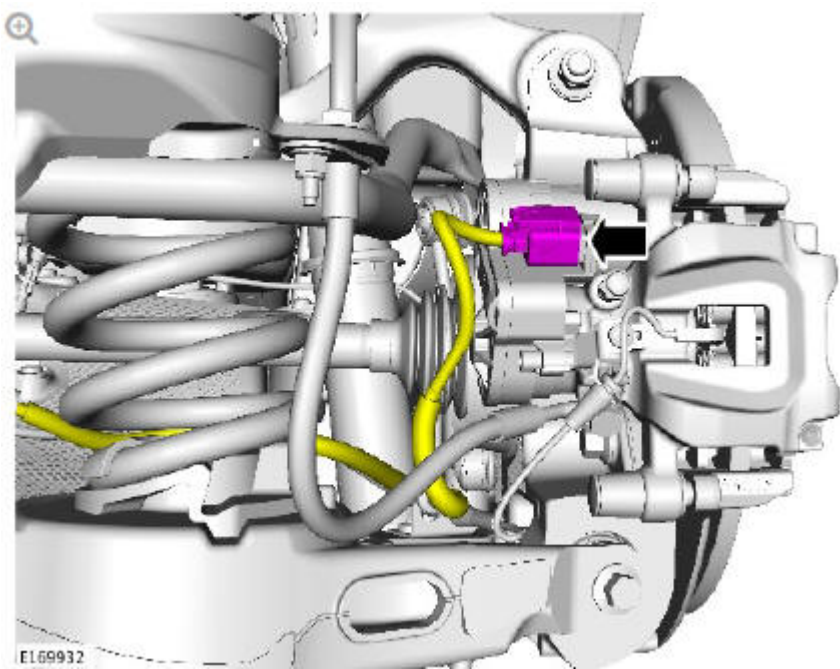
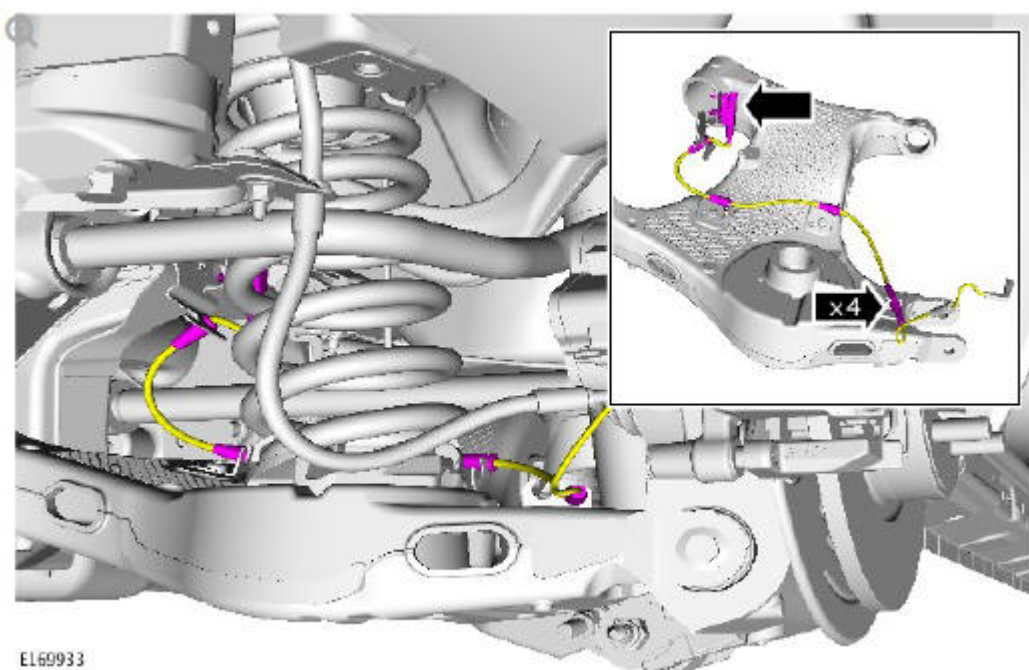
Refer to: Exhaust System (309-00A Exhaust System - GTDi 2.0L Petrol/GTDi 2.0L Petrol - SULEV, Removal and Installation).

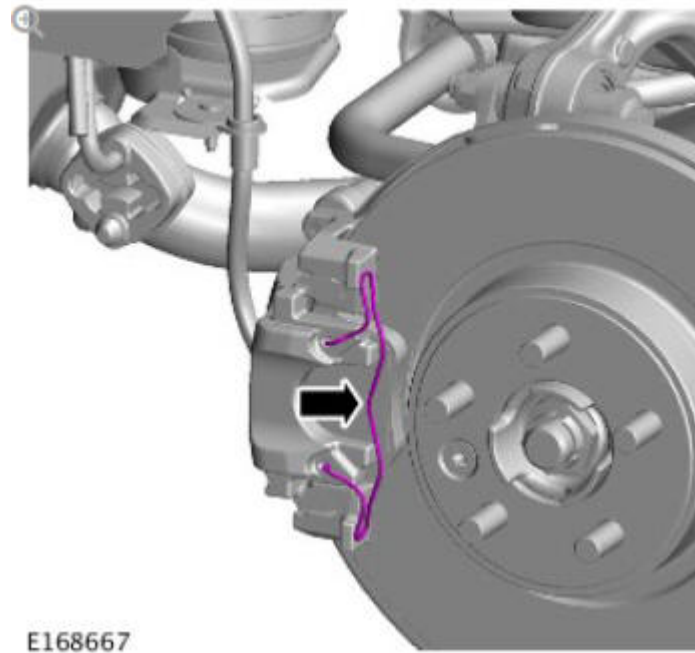
Refer to: Exhaust System (309-00B Exhaust System - TD4 2.2L Diesel, Removal and Installation).

Refer to: Rear Silencer (309-00C Exhaust System - INGENIUM I4 2.0L Diesel, Removal and Installation).

Refer to: Rear Suspension Height Sensor (204-05 Vehicle Dynamic Suspension, Removal and Installation).

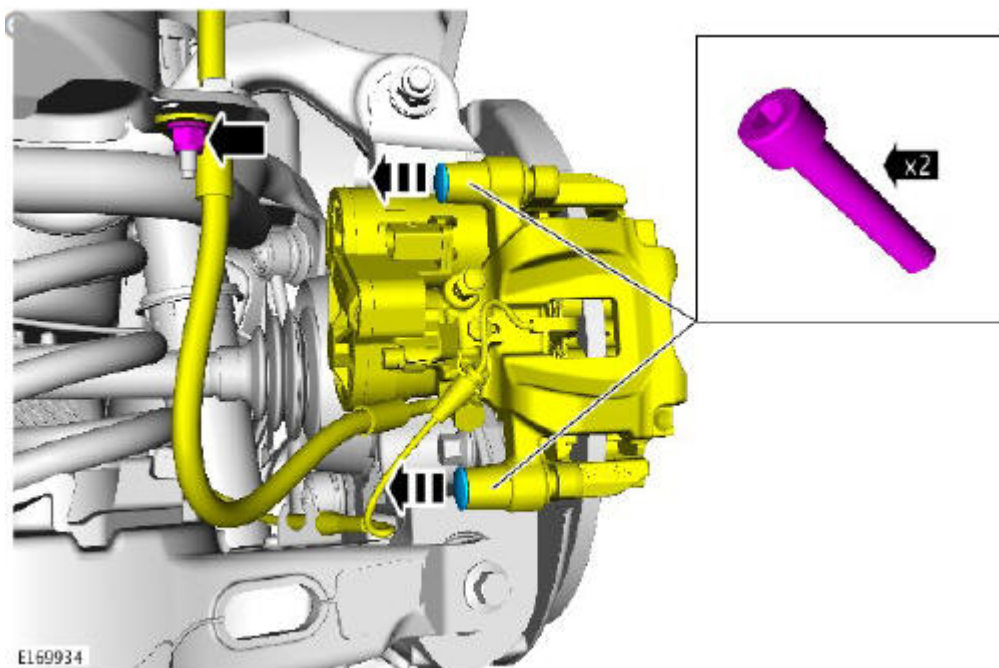






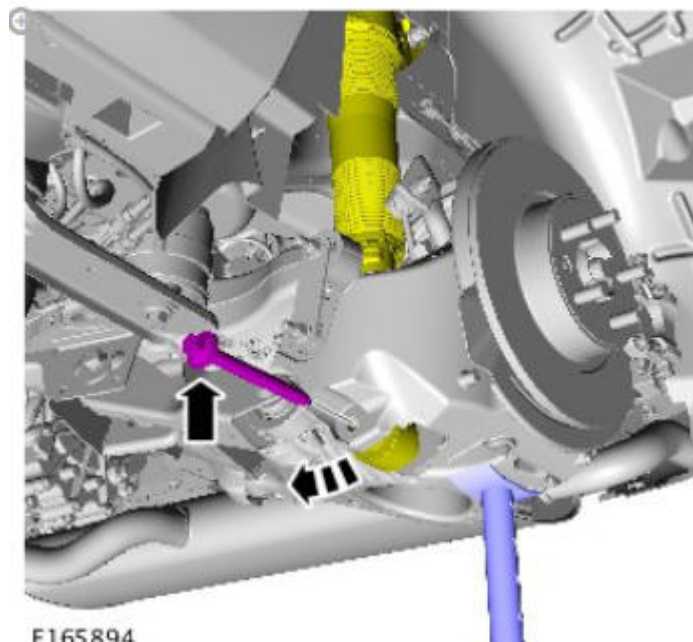
CAUTION:

Make sure that the brake hose does not support the full weight of the brake caliper assembly.

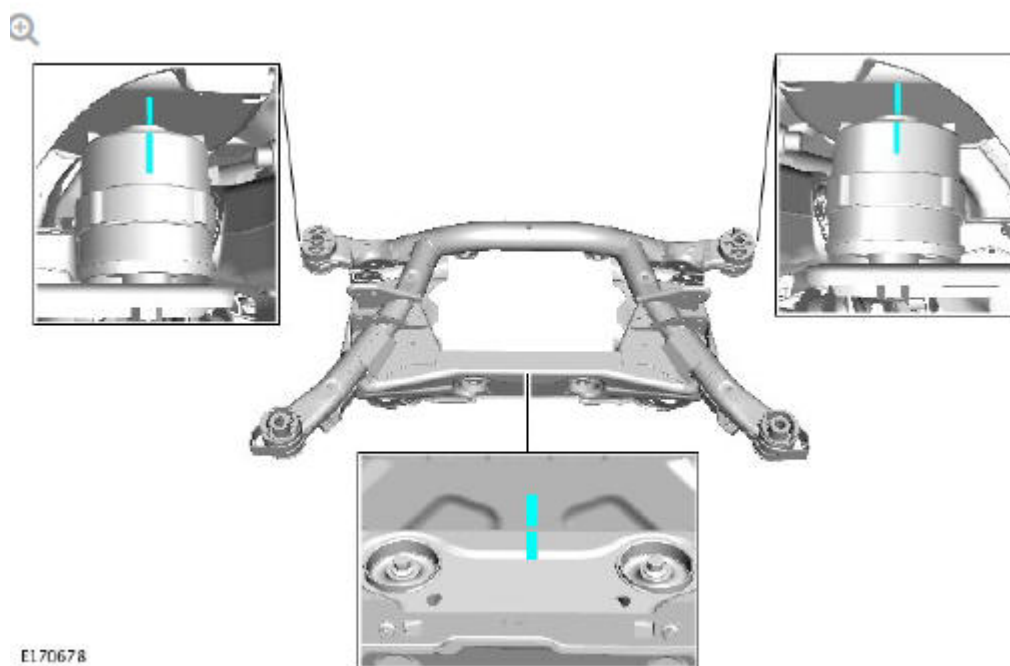


CAUTION:

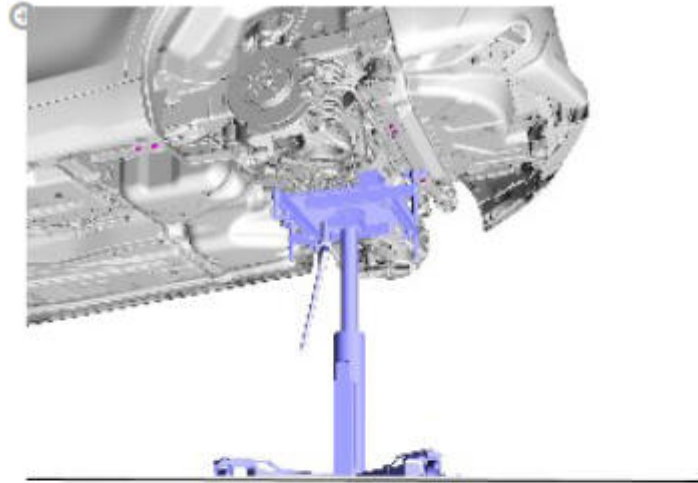
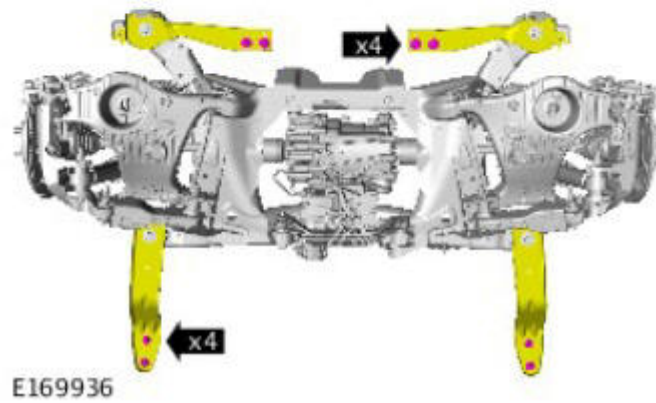
Discard the nut and bolt.



Repeat steps 5 to 13 for the other side.



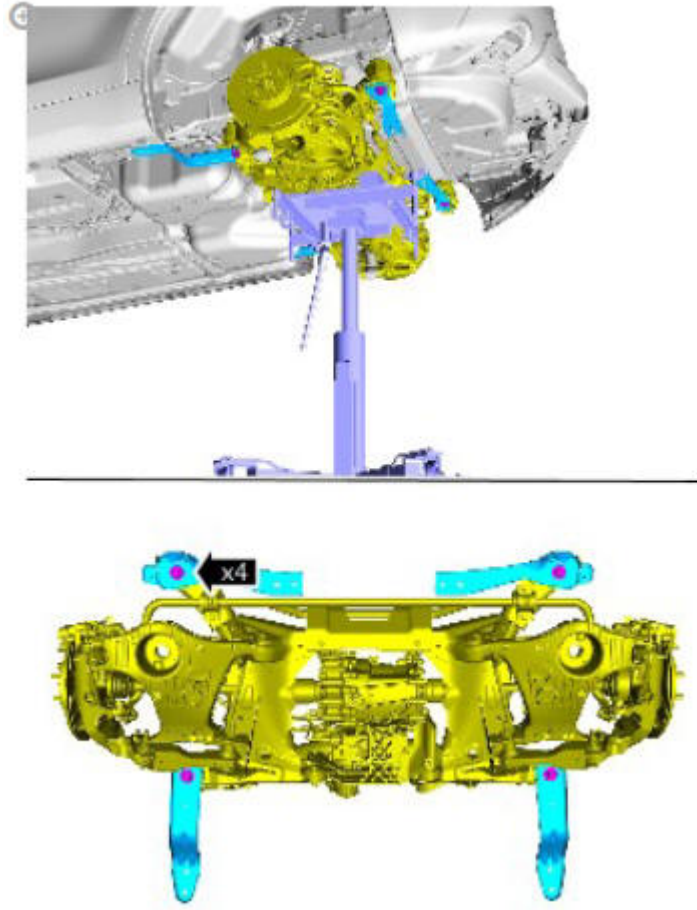
To aid installation, use a straight edge to mark the position of the subframe in relation to the body at the points shown.



General Equipment: Transmission jack

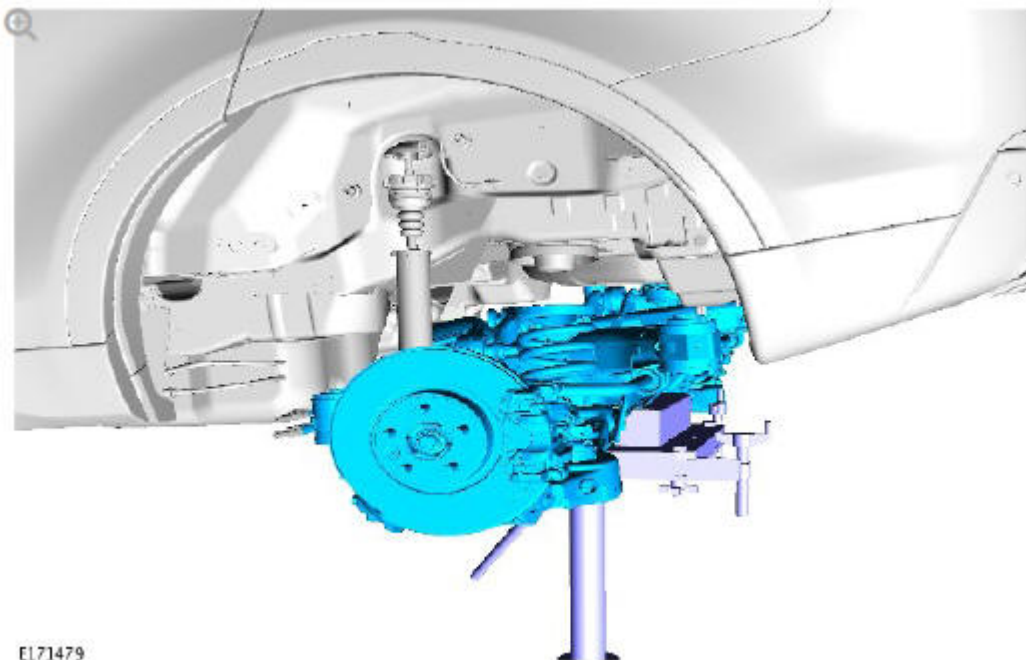
CAUTION:

Discard the bolts.



NOTE:

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



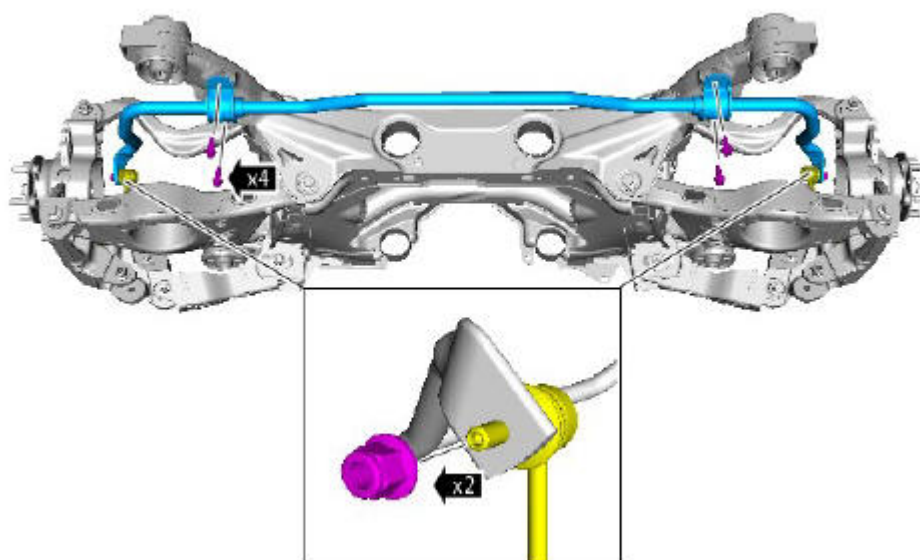
NOTE:

Note the orientation of the components prior to removal.

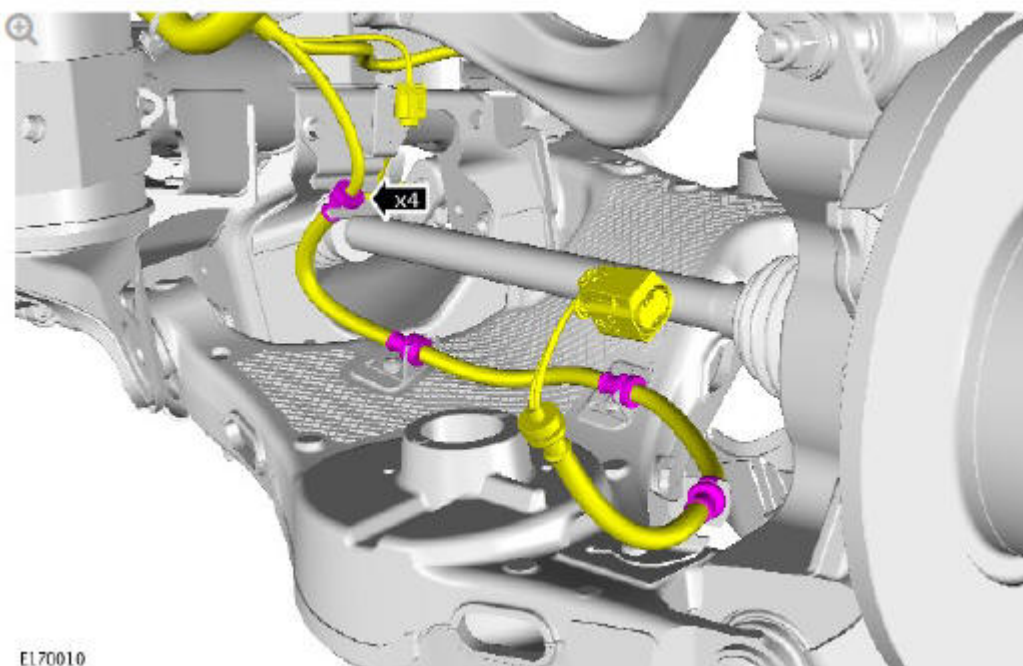


CAUTION:

Discard the nuts.



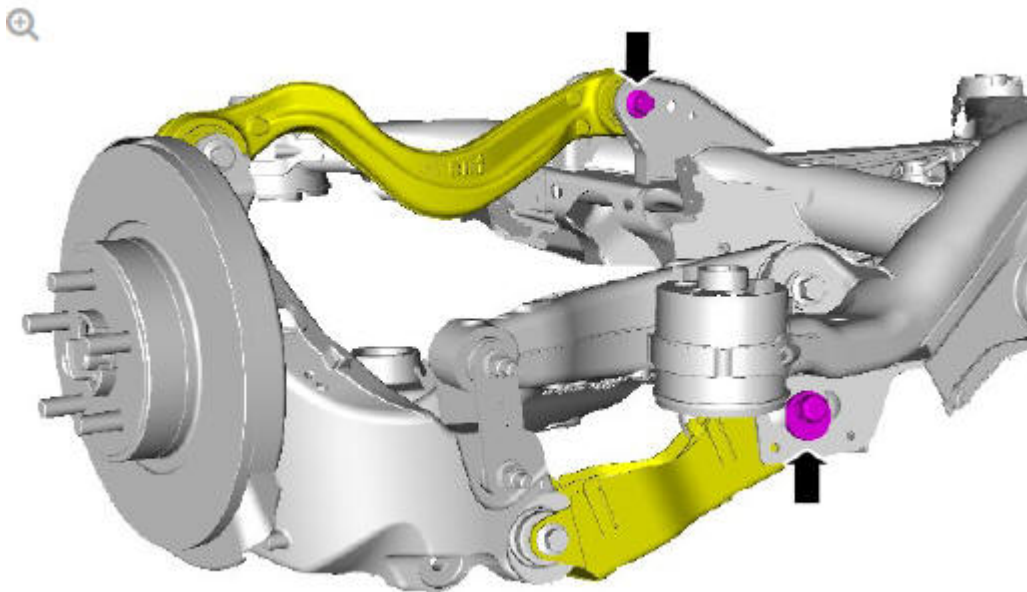
75



E170010

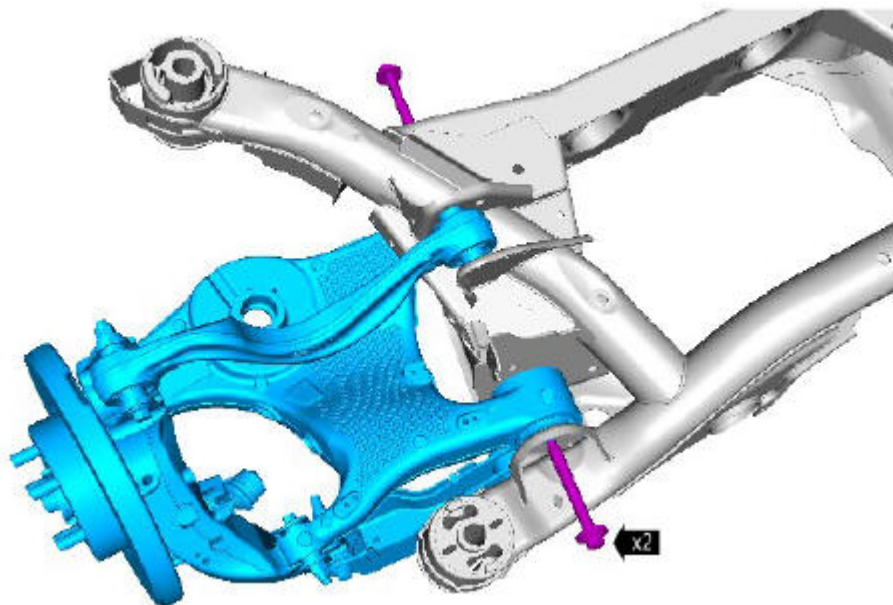
CAUTIONS:

- Discard the Upper arm nut and bolt.
- Discard the Toe arm nut.

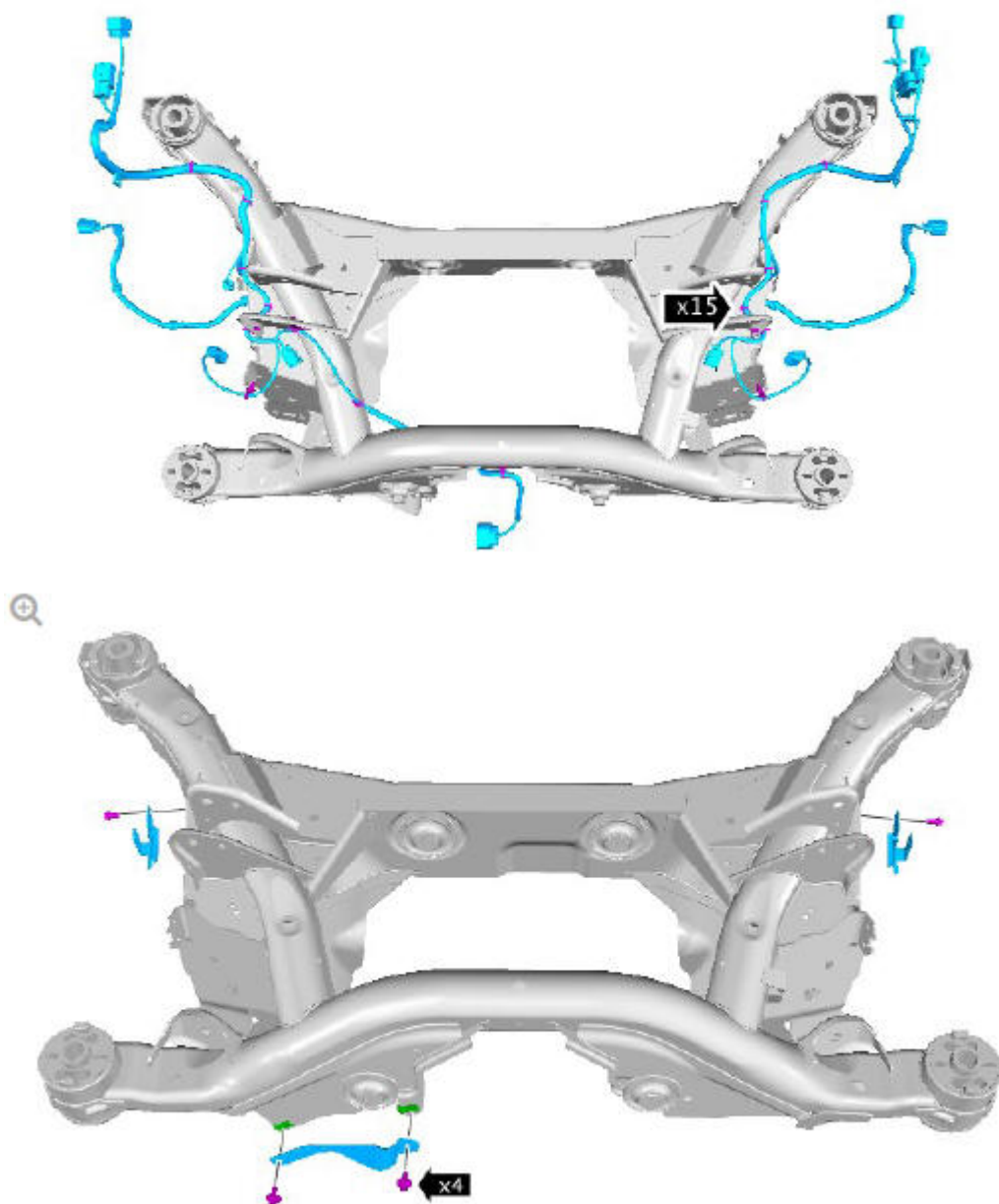


CAUTION:

Discard the nuts and bolts.



Repeat steps 20 to 22 for the other side.



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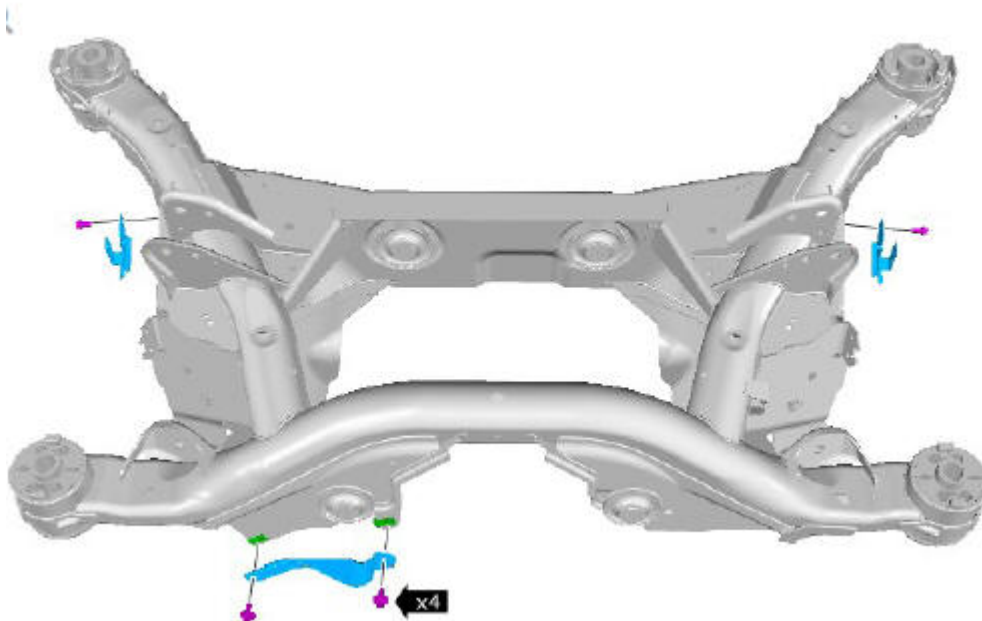
Uni-body, Subframe and Mounting System Rear Subframe - FWD (G1799046)Uni-body, Subframe and Mounting System Rear Subframe - FWD (G1799046) - Installation

ne

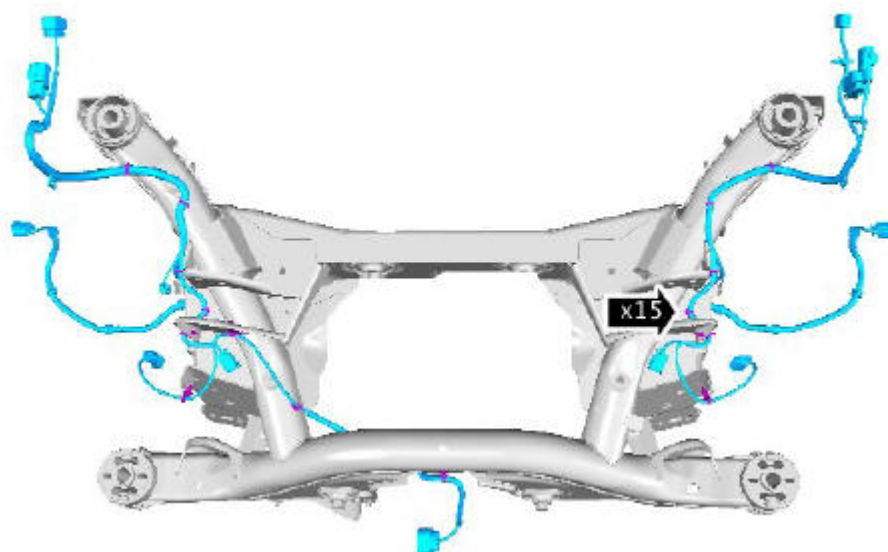
Uni-кузов, подрамник и крепление система задний подрамник - FWD - установка

Uni-body, Subframe and Mounting System Rear Subframe - FWD (G1799046) - Installation

Installation

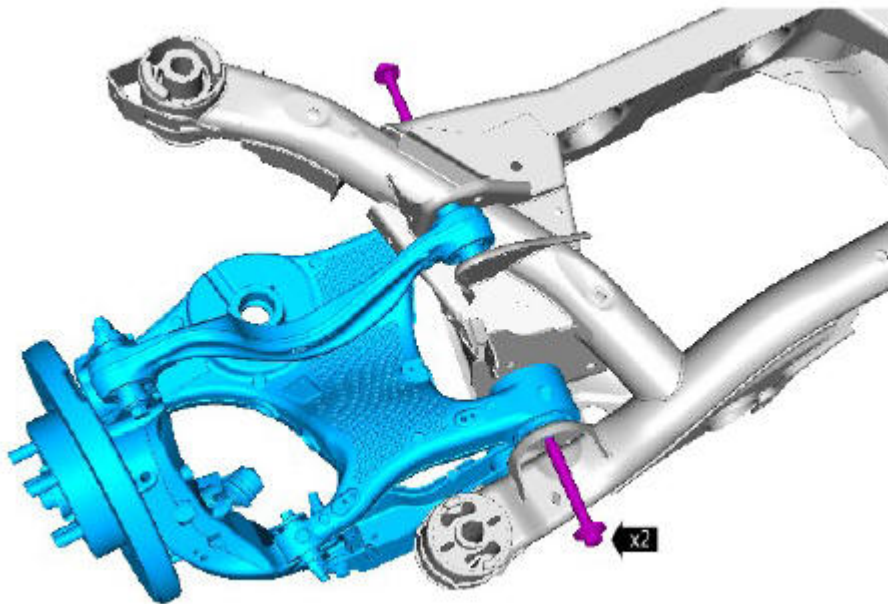


Torque: 9 Nm



CAUTIONS:

- Make sure that new nuts and bolts are installed.
- Nuts and bolts must be tightened with vehicle at normal ride height.



Renew Part: Lower control arm nut and bolt.

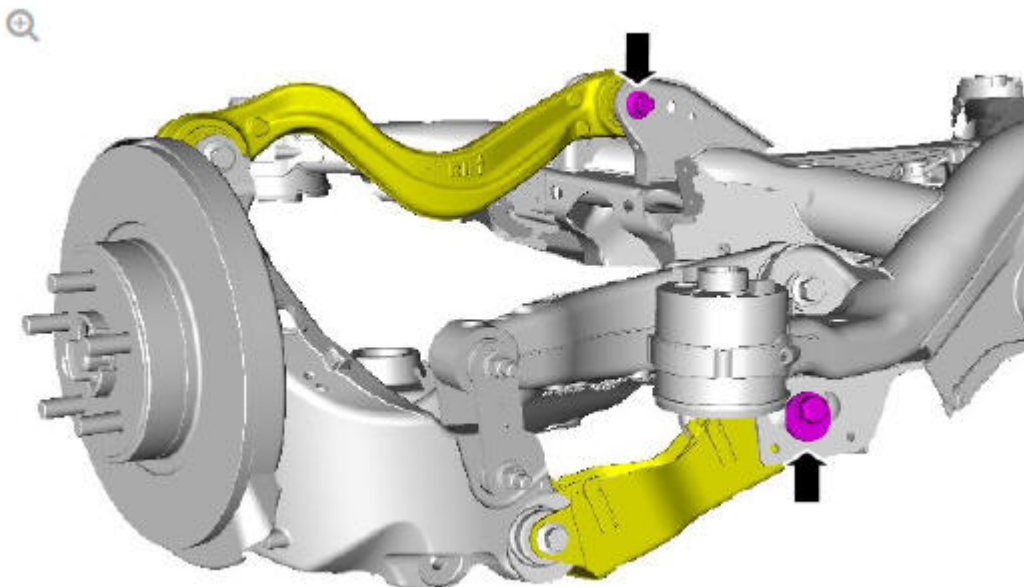
Torque:

Stage 1: 70 Nm

Stage 2: 240°

CAUTIONS:

- Make sure that a new Upper arm nut and bolt are installed.
- Make sure that a new toe link nut is installed.
- Nuts and bolts must be tightened with vehicle at normal ride height.



Renew Part: Toe link to knuckle nut and bolt.

Renew Part: Toe link nut.

Torque:

Upper arm

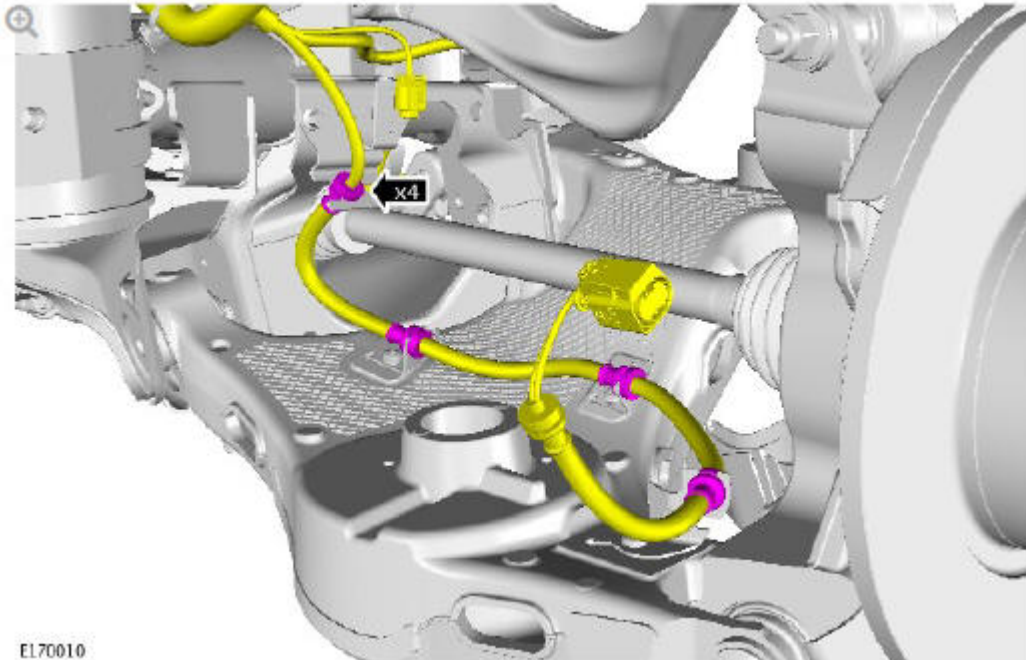
Stage 1: 40 Nm

Stage 2: 180°

Toe link

Stage 1: 50 Nm

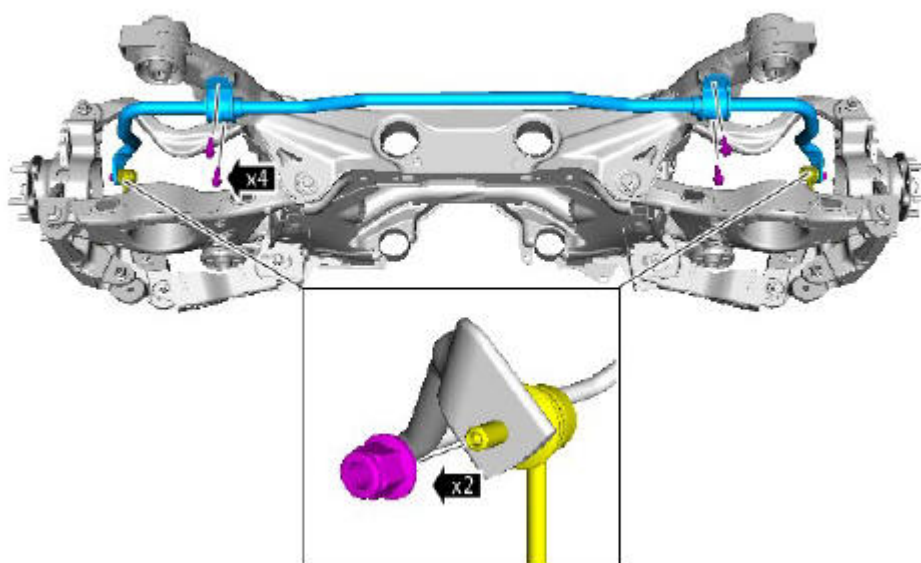
Stage 2: 60°



Repeat steps 3 to 5 for the other side.

CAUTION:

Make sure that new nuts are installed.



1475

Renew Part: Stabilizer bar link upper nut.

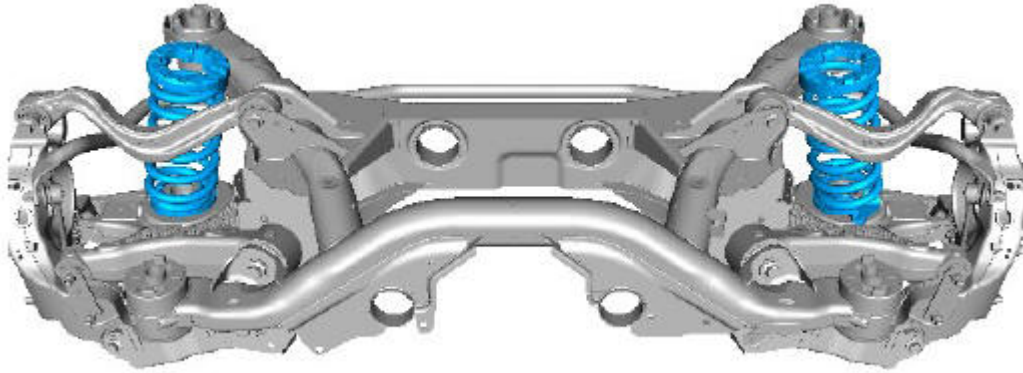
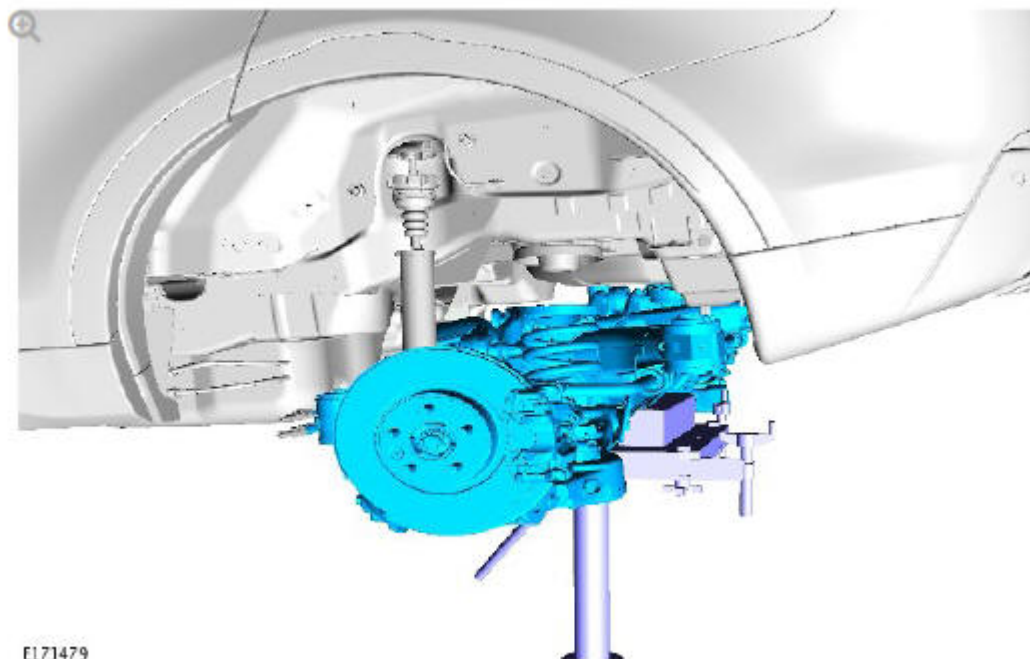
Torque:

Bolts 60 Nm

Nuts 60 Nm

NOTE:

Make sure that the components are installed to the noted removal position.



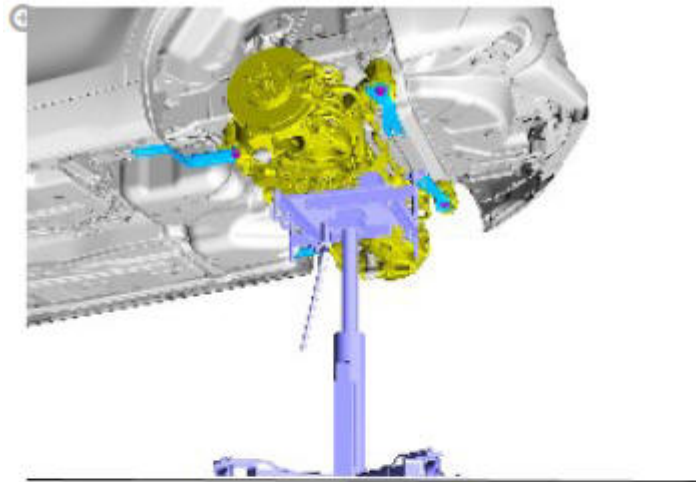
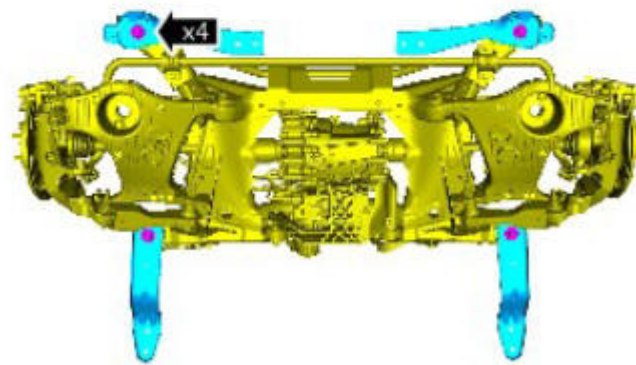
E171479

Use the alignment marks to aid installation.

General Equipment: Transmission jack

CAUTION:

Make sure that new bolts are installed.

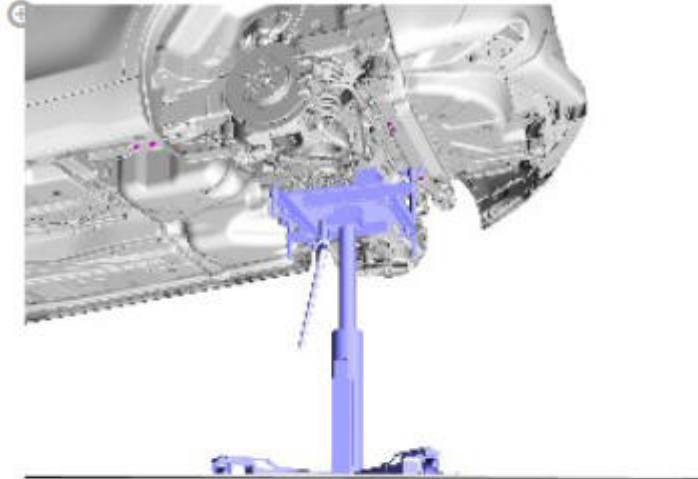
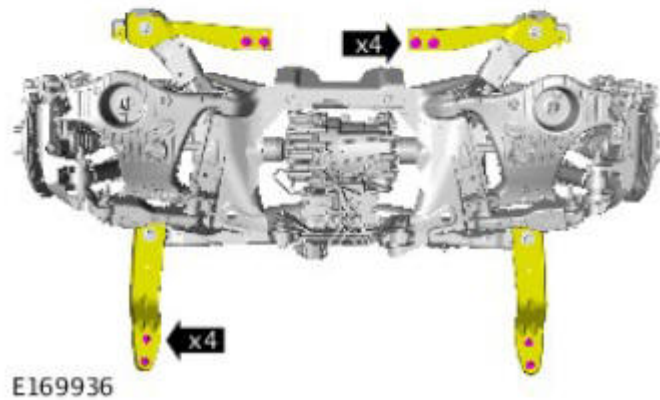


E169937

Torque:

Stage 1: 110 Nm

Stage 2: 120°



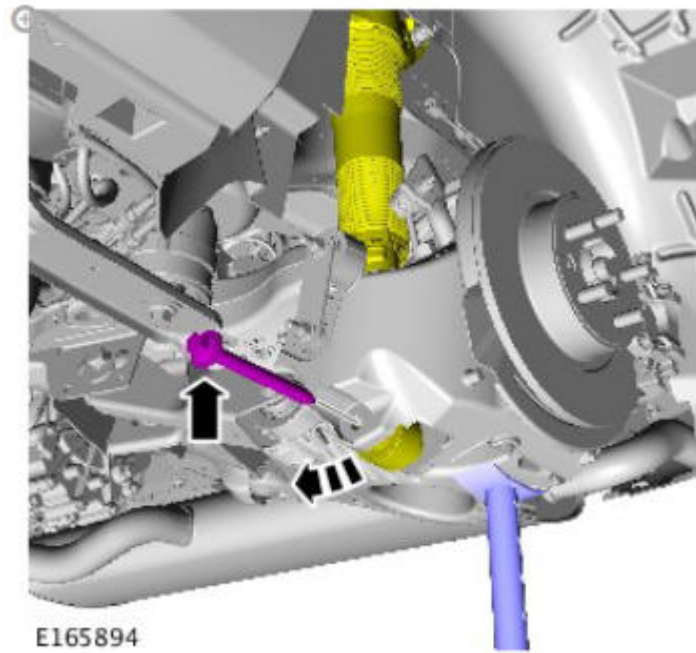
Torque:

Front 116 Nm

Rear 80 Nm

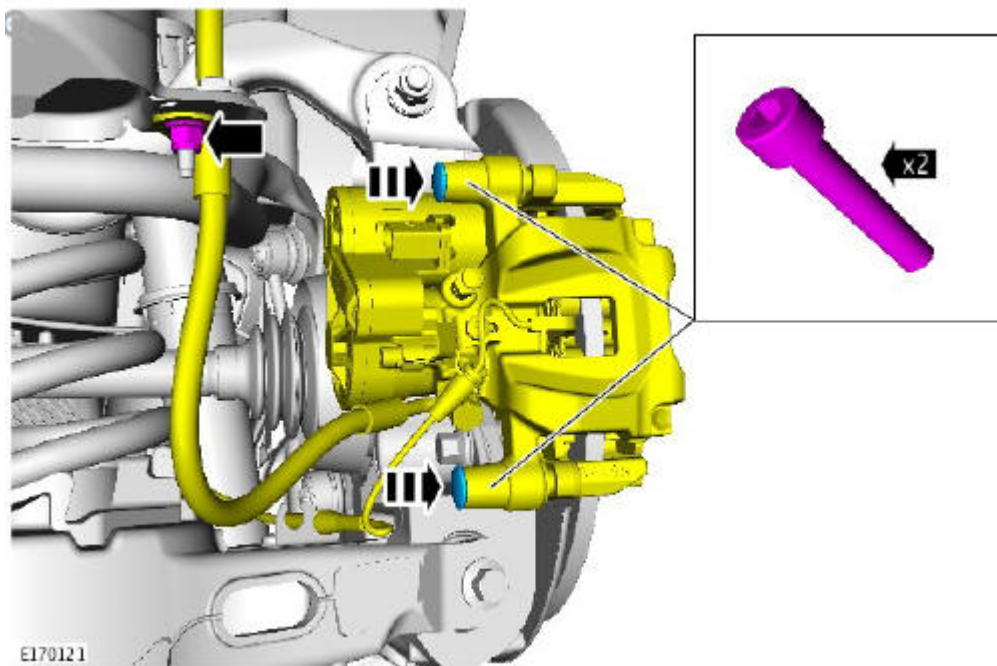
CAUTIONS:

- Make sure that a new nut and bolt is installed.
- Nuts and bolts must be tightened with vehicle at normal ride height.



Renew Part: Shock absorber to wheel knuckle mounting nut and bolt.

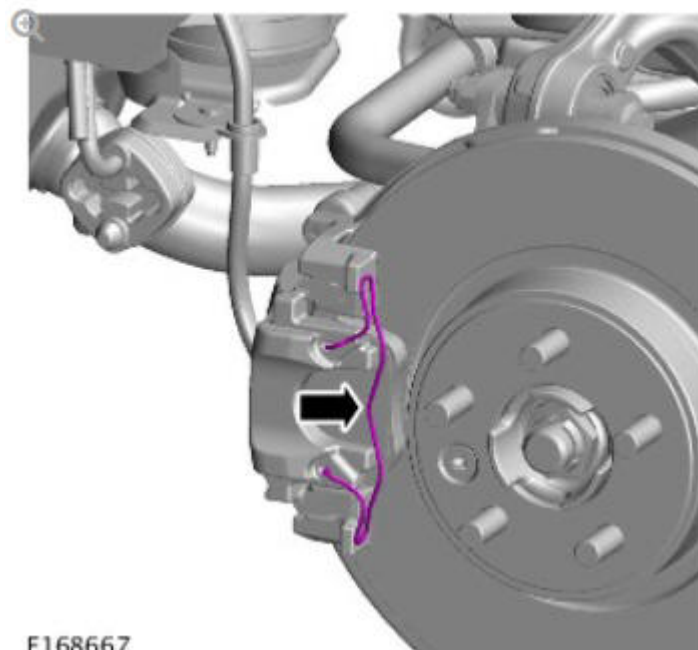
Torque: 170 Nm



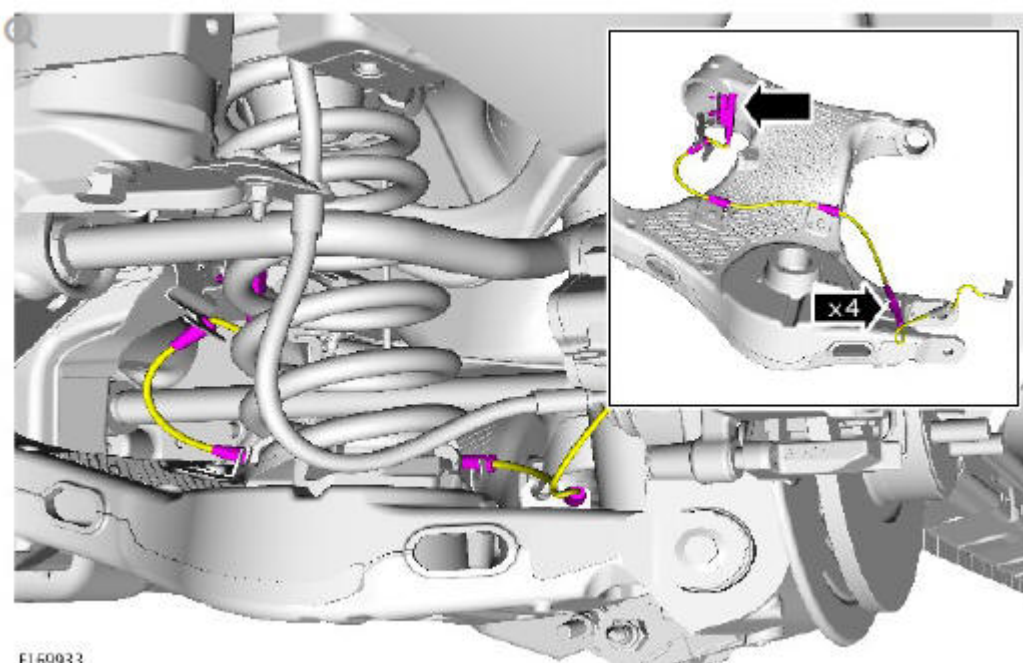
Torque:

Bolts 28 Nm

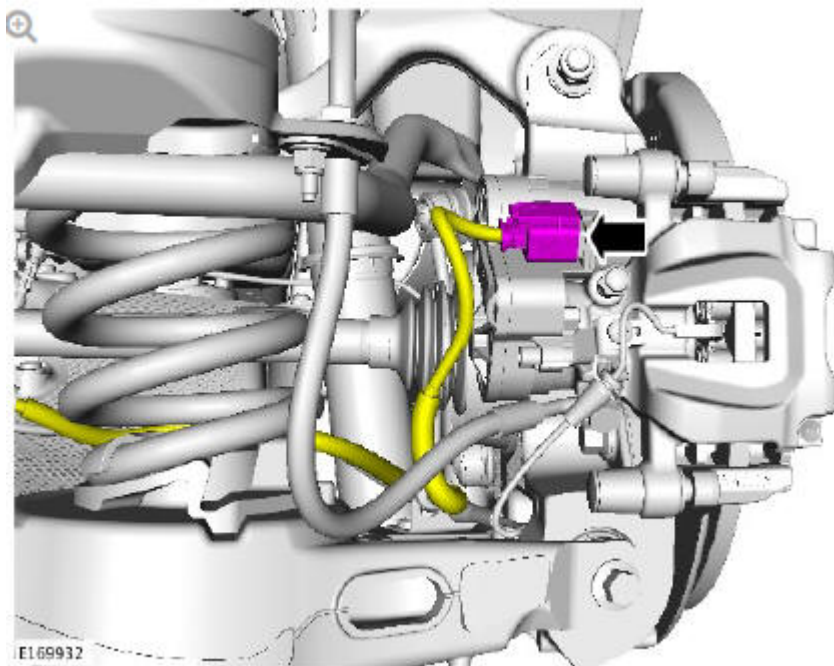
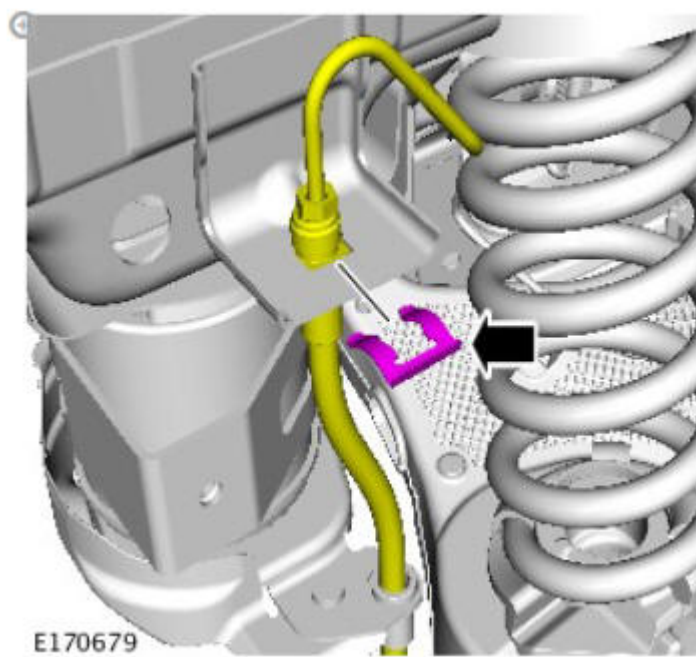
Nut 10 Nm

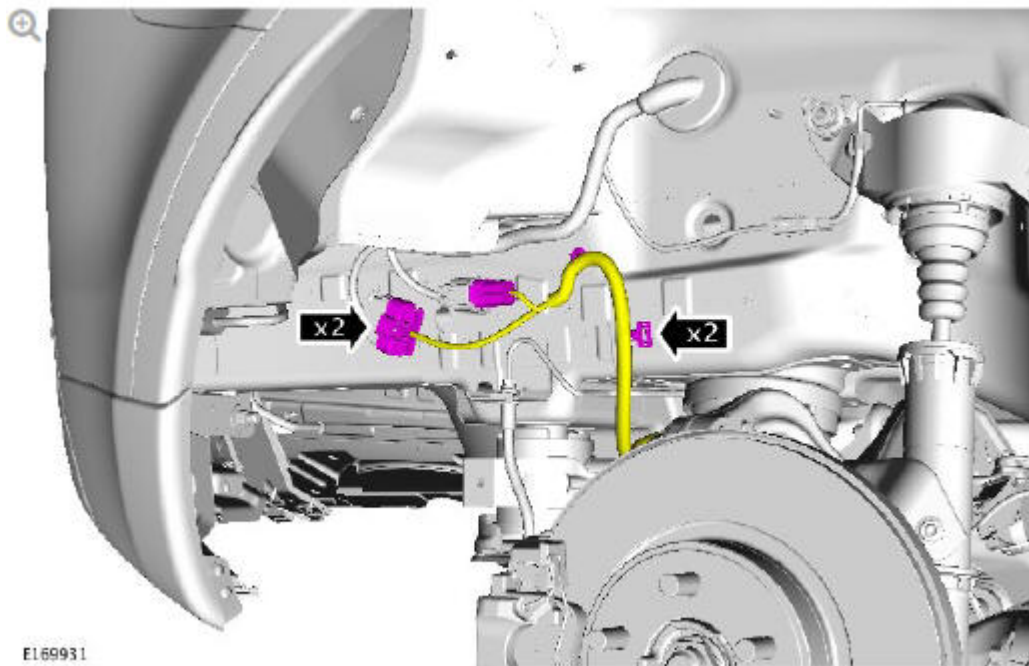
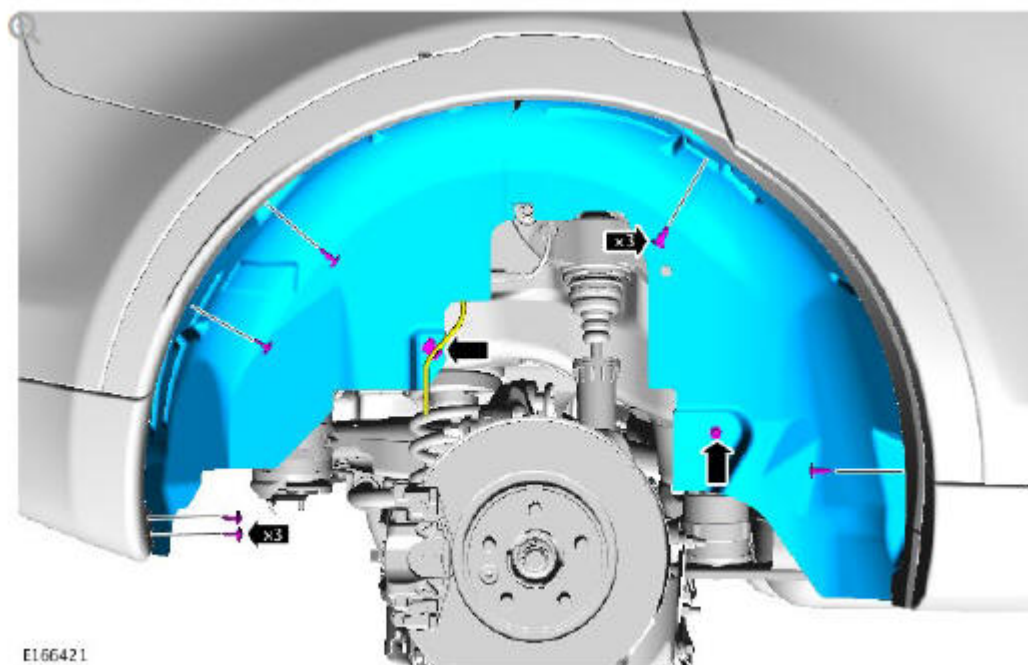


E168667



E169933





Refer to: Rear Suspension Height Sensor (204-05 Vehicle Dynamic Suspension, Removal and Installation).

Repeat steps 12 to 20 for the other side.

Refer to: Exhaust System (309-00B Exhaust System - TD4 2.2L Diesel, Removal and Installation).

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

Refer to: Electronic Parking Brake Service Mode Activation and Deactivation (206-05 Parking Brake and Actuation, General Procedures).

CAUTION:

It may be necessary to adjust the position the subframe(s) in order to achieve the correct wheel base, axle set-back and axle lateral off-set

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

Uni-кузов, подрамник и крепление система задний подрамник сайлентблок / снятие и установка

Uni-body, Subframe and Mounting System Rear Subframe Bushing (G1779466) / Removal and Installation

SPECIAL TOOL(S)



JLR-502-022

Installer, Bush



JLR-502-023

Remover Support,
Bush



JLR-502-024

Installer, Bush



JLR-502-025

Installer support,
Bush



JLR-502-026

Installer, Bush



JLR-502-027-1

Remover/Installer,
Forcing Screw



**JLR-502-
027-2**

Remover/Installer,
Bearing



**JLR-502-
027-3**

Remover/Installer,
Nut

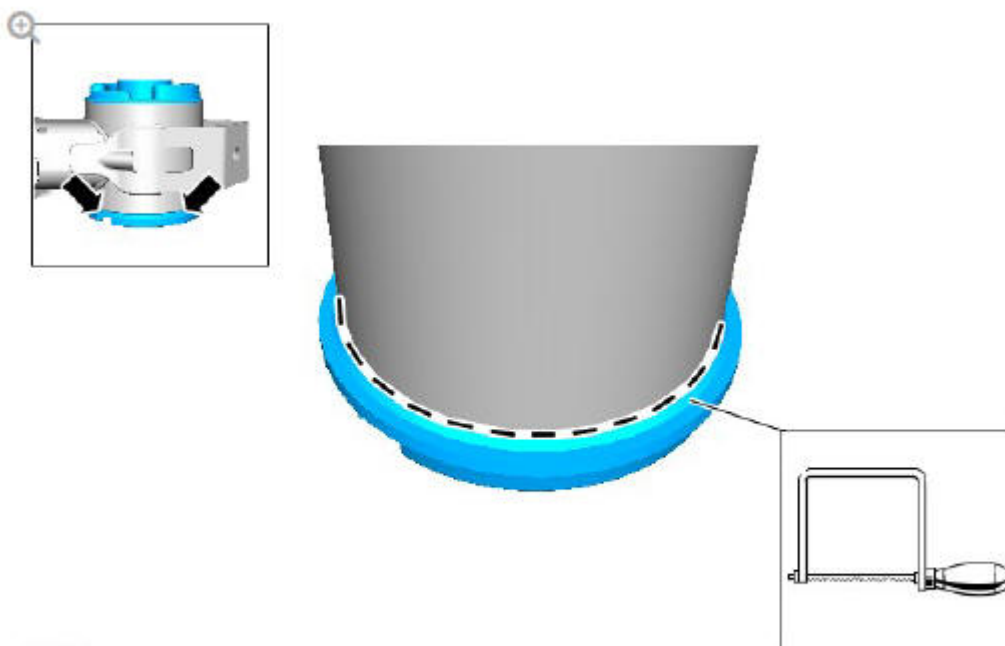
REMOVAL

NOTES:

- *Some variation in the illustrations may occur, but the essential information is always correct.*
- *Some components shown removed for clarity.*

Refer to: Rear Subframe - AWD (502-00, Removal and Installation).

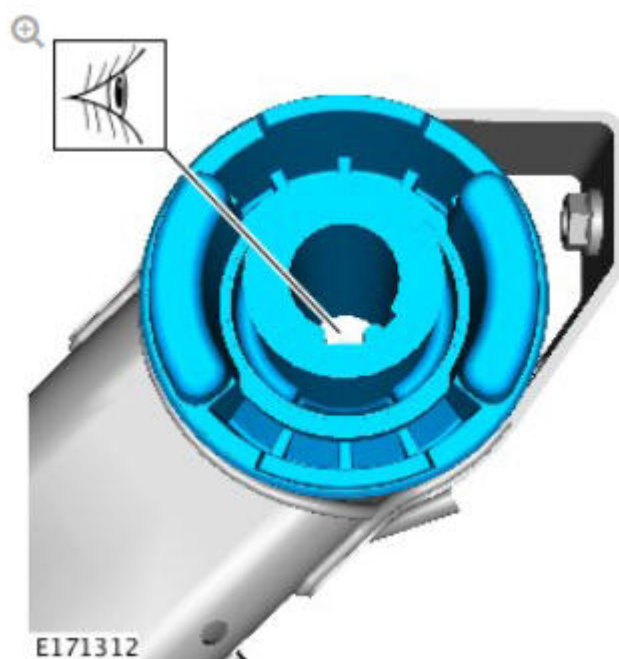
Refer to: Rear Subframe - FWD (502-00, Removal and Installation).



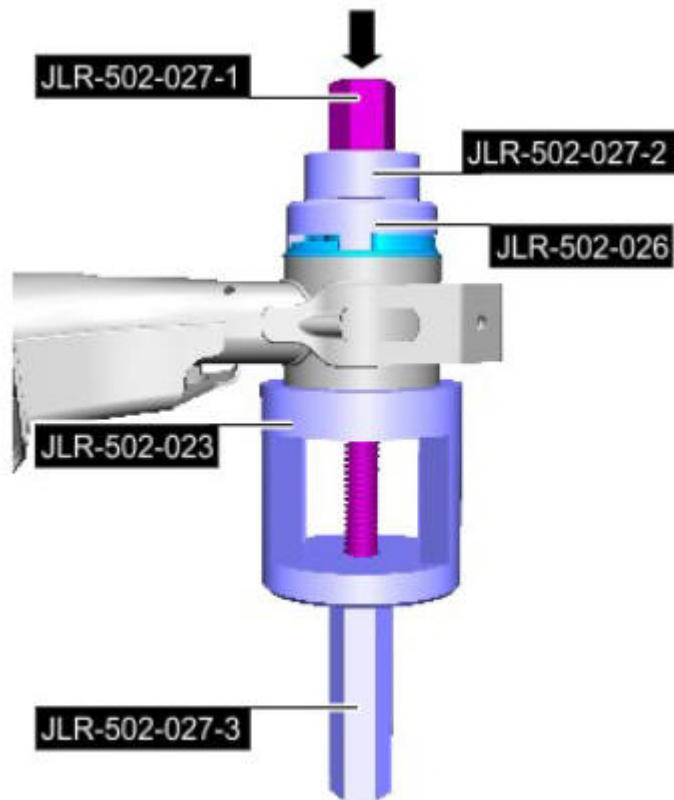
E171311

CAUTION:

Note the orientation of the bush before removal.



E171312



Special Tool(s): JLR-502-023, JLR-502-026, JLR-502-027-1, JLR-502- 027-2, JLR-502-027-3

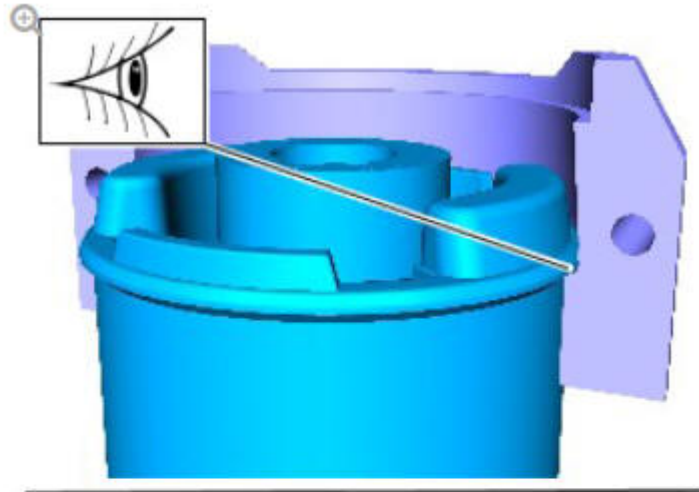
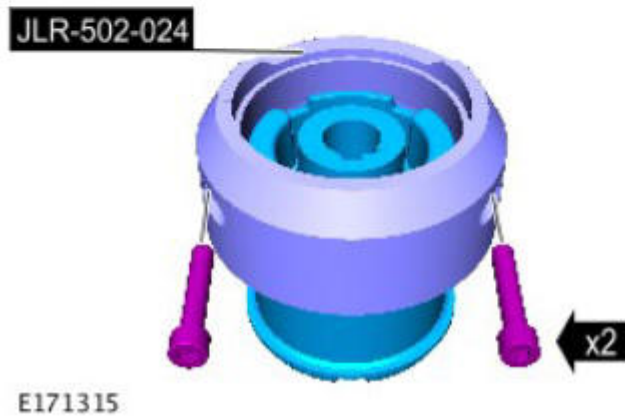


Clean and inspect the component for deterioration.

INSTALLATION

CAUTION:

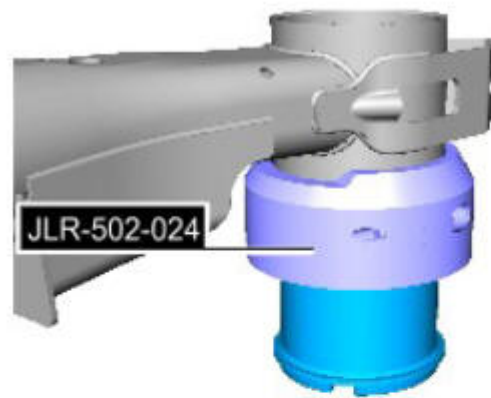
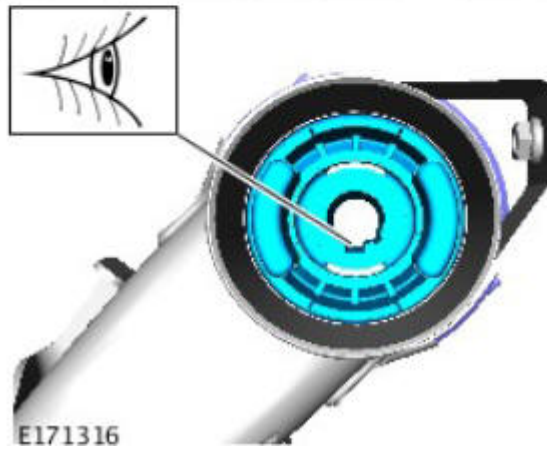
Make sure that the component is correctly installed.



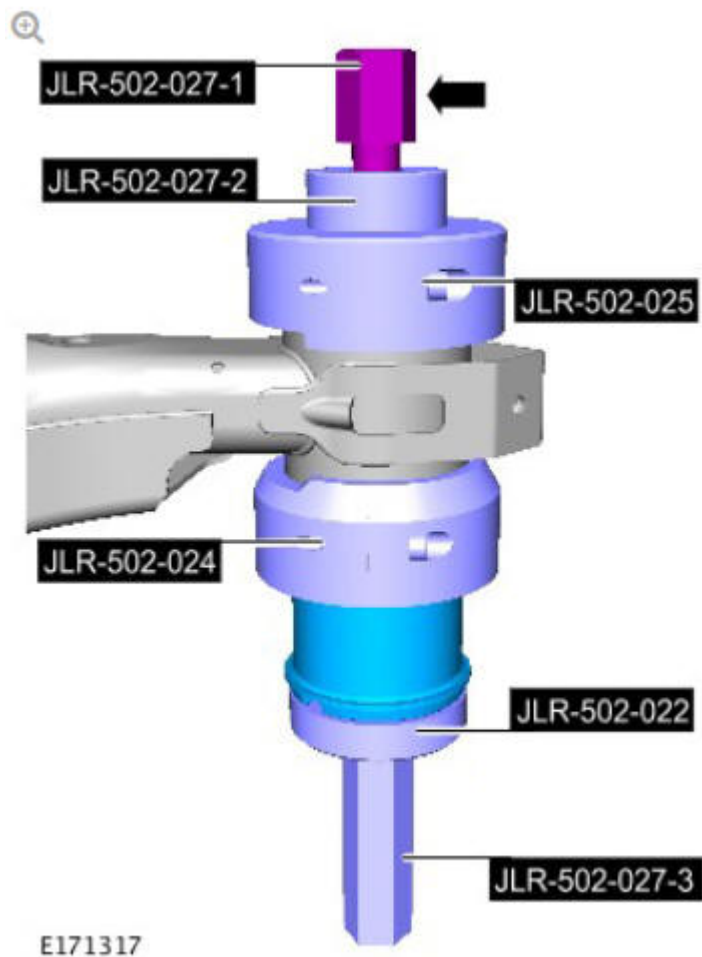
Special Tool(s): JLR-502-024

CAUTION:

Make sure that the bush is installed to the position noted on removal.



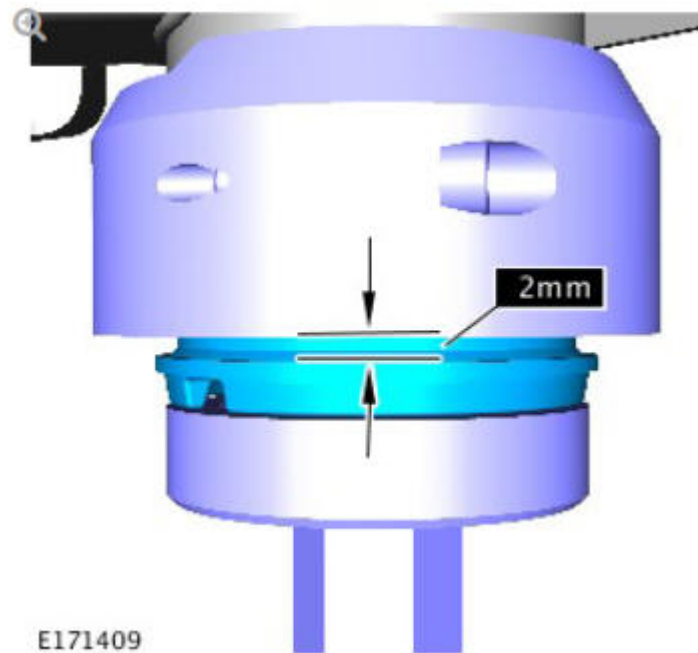
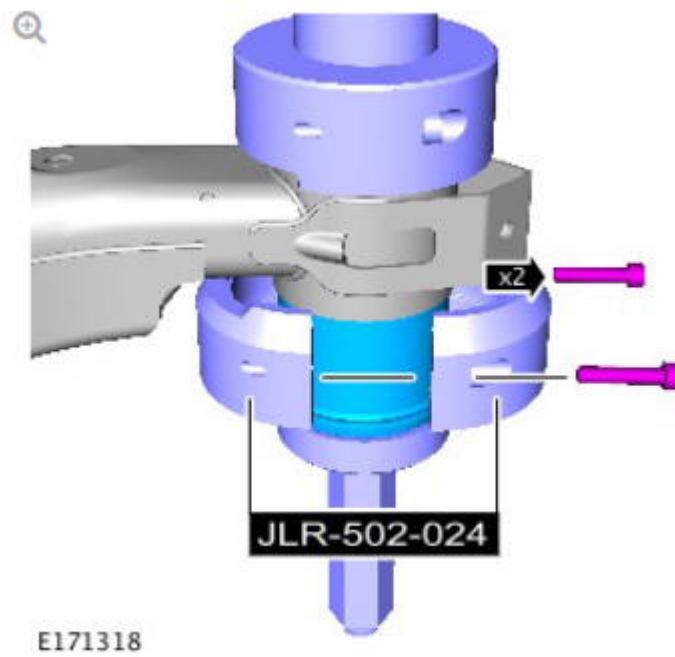
Special Tool(s): JLR-502-024



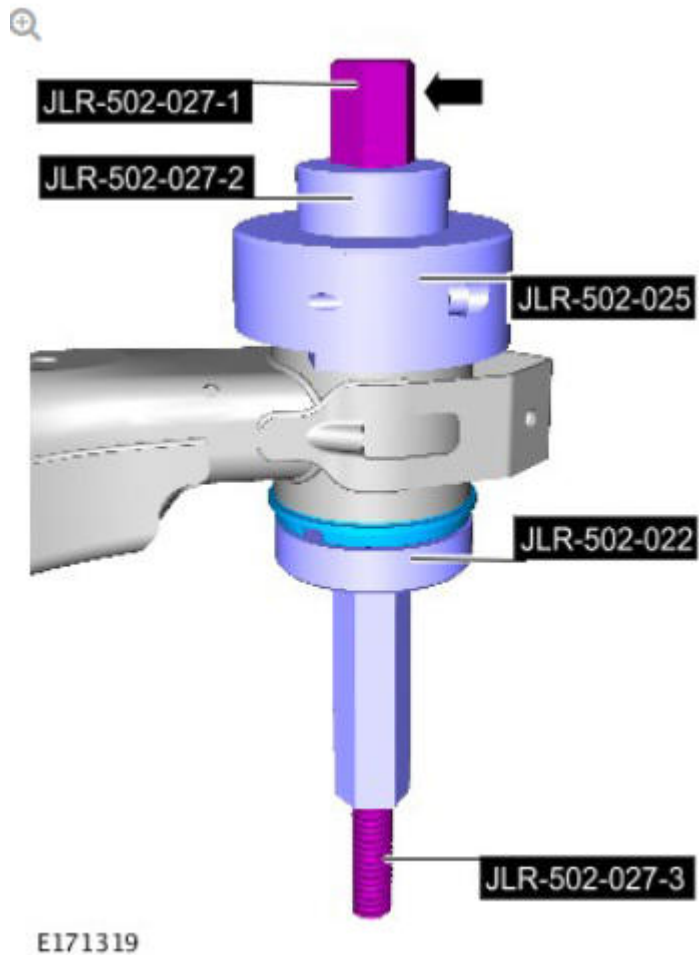
Special Tool(s): JLR-502-022, JLR-502-024, JLR-502-025, JLR-502- 027-1, JLR-502-027-2, JLR-502-027-3

NOTE:

Leave a 2mm gap between the lip of the bush and the tool.

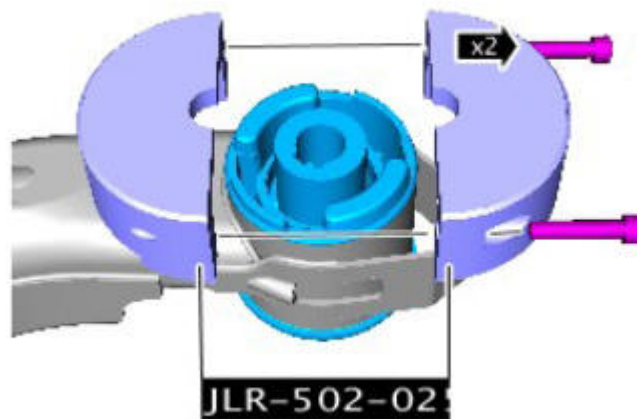


Special Tool(s): JLR-502-024



E171319

Special Tool(s): JLR-502-022, JLR-502-025, JLR-502-027-1, JLR-502-027-2, JLR-502-027-3



E171410

Remove the special tools.

Refer to: Rear Subframe - AWD (502-00, Removal and Installation).

Refer to: Rear Subframe - FWD (502-00, Removal and Installation).

Uni-body, subframe and mounting system specifications

SPECIFICATIONS

DESCRIPTION	NM	LB-FT
Front subframe		
Front mounting bolts to body bolts*		
Stage 1	140	103
Stage 2	Then a further 240 degrees	Then a further 240 degrees
Rear mounting bolts to body bolts*		
Stage 1	140	103
Stage 2	Then a further 240 degrees	Then a further 240 degrees
Front mounting bracket bolts	25	18
Front subframe cross brace bolts	45	33
Front suspension lower arm		
Nuts	175	129
Bolts*		
Stage 1	140	103
Stage 2	Then a further 45 degrees	Then a further 45 degrees
Rear subframe		
Rear subframe to body bolts*		
Stage 1	110	80
Stage 2	Then a further 120 degrees	Then a further 120 degrees
Rear subframe front mounting bracket bolts	116	85
Rear subframe rear mounting bracket bolts	80	59

Uni-body, Subframe and Mounting System Rear Subframe - FWD (G1799046) - InstallationFront end body panels

ne
