

**MANUAL TRANSMISSION/TRANSAXLE****SPECIFICATIONS****MAINTENANCE**

DESCRIPTION	INTERVALS
Normal maintenance	Filled for Life
Severe duty maintenance	Change the fluid at 150, 000 miles, 10 year intervals.

**CAPACITIES**

	LITERS
Transmission Fluid	1.2

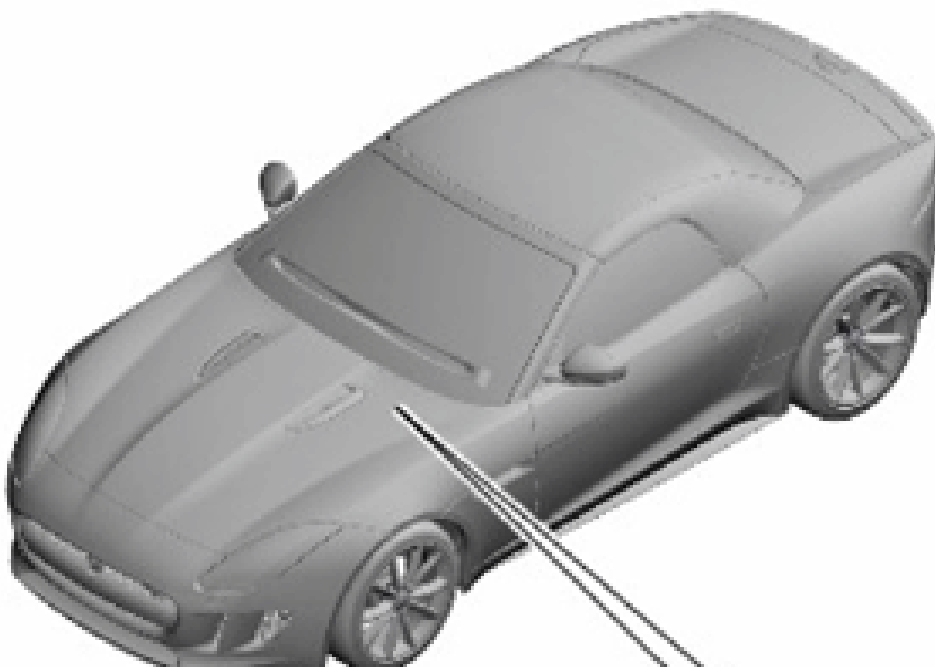
**LUBRICANTS, FLUIDS, SEALERS AND ADHESIVES**

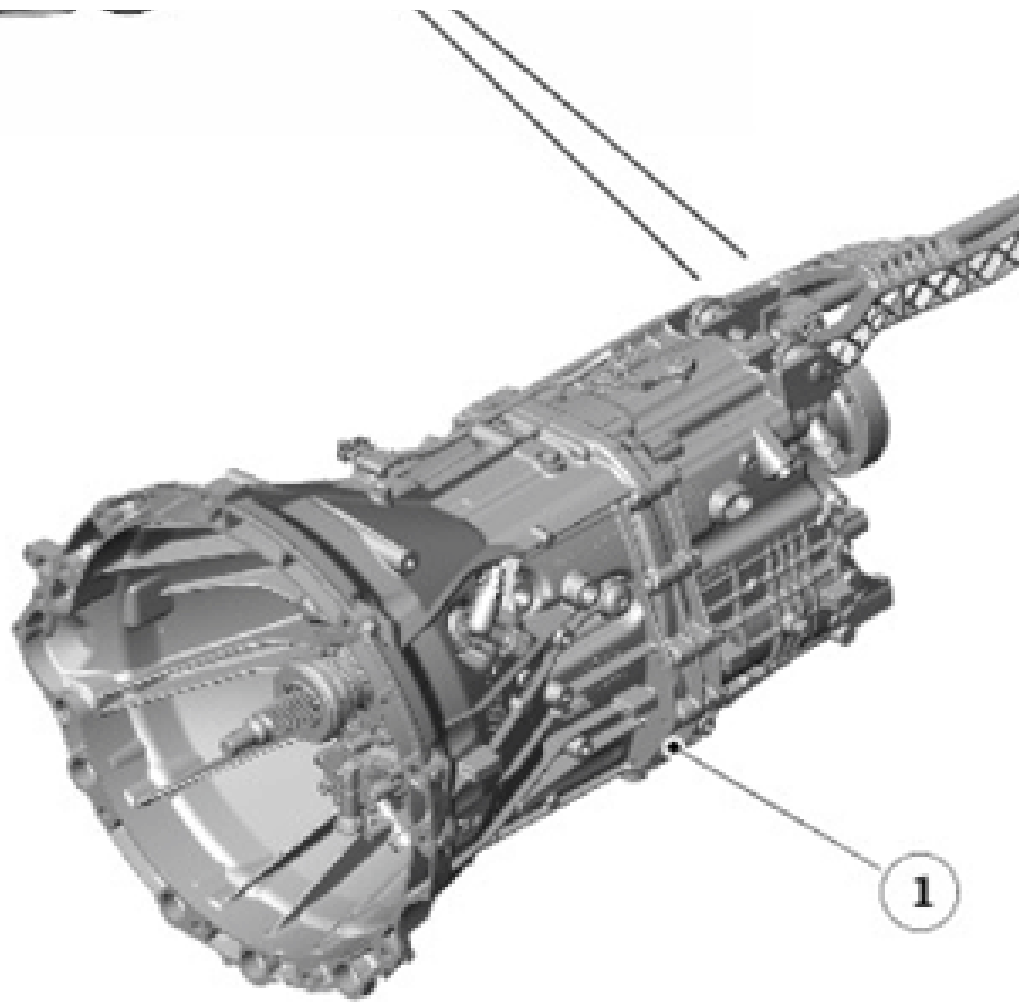
**CAUTION:** Use only Pentosin FFL-3 Manual transmission oil. Use of any other fluid may result in a transmission malfunction or failure.

DESCRIPTION	SPECIFICATION
Manual Transmission fluid	GX73-M1R564-AA
Input shaft Grease	GX73-M1R561-AA
Metal surface cleaner	WSW-M5B392-A
High temperature grease	Molecote FB180

**TORQUE SPECIFICATIONS**

DESCRIPTION	NM	LB-FT
Transmission retaining bolts	48	35
Transmission mount retaining bolts	45	33
*Transmission fluid level plug	43	38
Transmission fluid drain plug	43	38
Slave cylinder bolt	10	-
Reverse gear switch	16	12
Prop-shaft flange retaining nut (Always replace the nut)	60	44
Gear selector position sensor retaining bolts	10	7
Slave cylinder hydraulic lines support bracket bolts	12	9
Gear selector lever retaining bracket bolts	12	9

**DESCRIPTION AND OPERATION****COMPONENT LOCATION**



E174876

ITEM	DESCRIPTION
1	Manual transmission
2	Selector lever assembly

#### OVERVIEW

The S6-45 manual transmission is a 6 speed unit manufactured by ZF. The transmission features aluminium casings and drilled shafts to minimise weight.

The transmission is operated by a single rod from the selector lever.

Maximum input torque capacity is 450 Nm. Dry weight of the transmission is 43.5 Kg (96.0 lb).

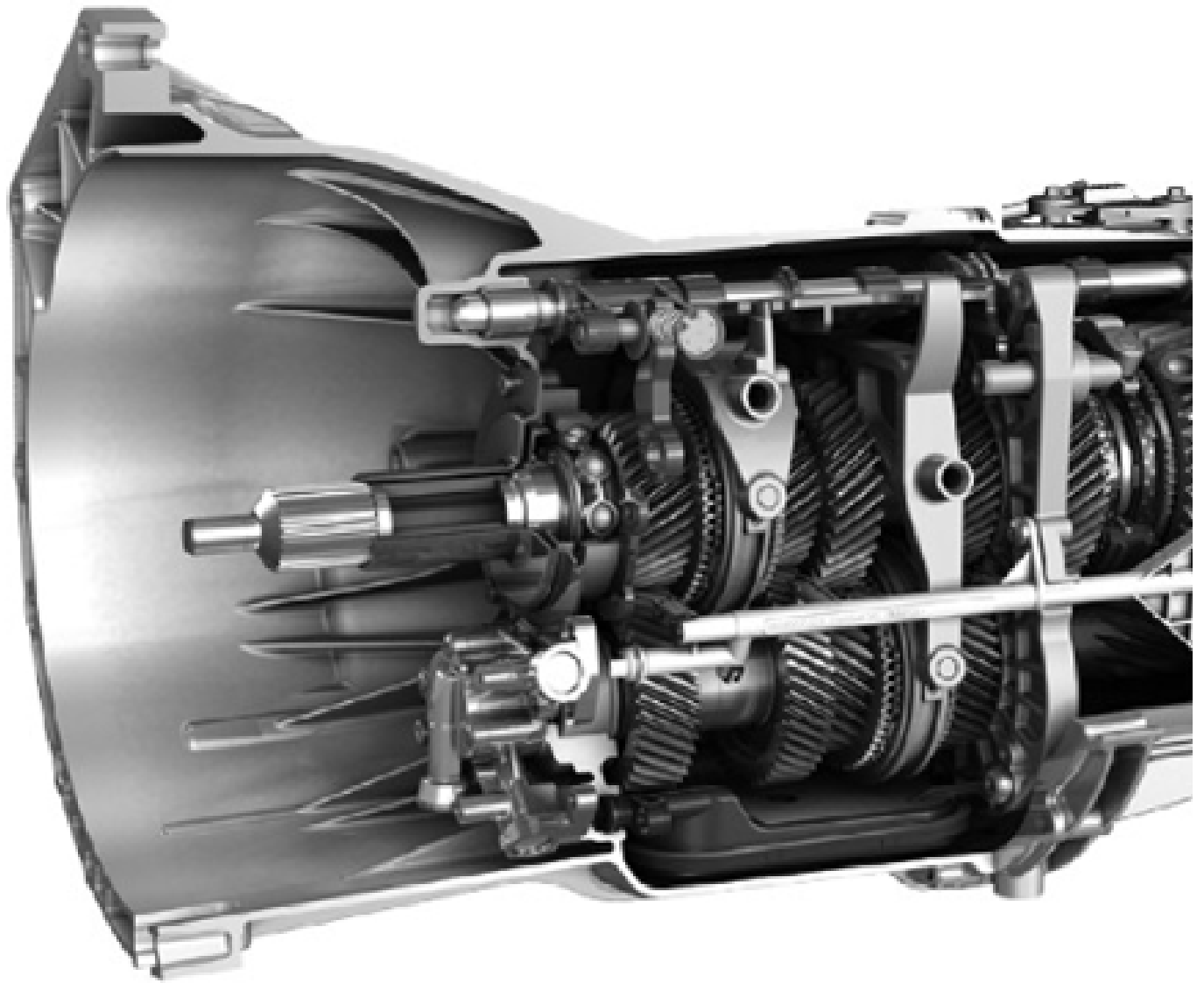
Lubrication is by a wet sump spray system to minimise drag losses. An oil pump is driven by the transmission lay shaft and produces oil pressure up to 1 bar (14.5 lbf/in<sup>2</sup>).

The lubricating oil is contained in the transmission casing and is drawn into a filter at the bottom of the transmission casings when the transmission input shaft is rotating. Oil

is drained via the drain plug on the underside of the transmission casing. An oil filler and level plug is located on the side of the transmission casing.

#### DESCRIPTION

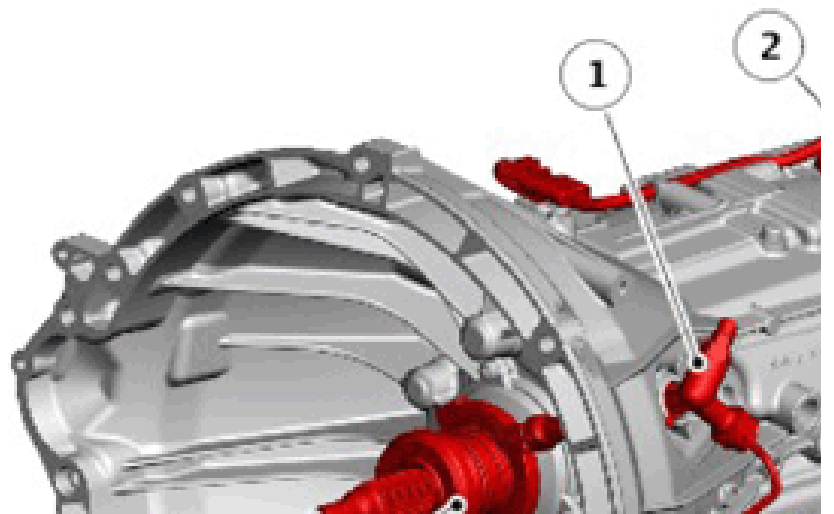
##### S6-45 MANUAL TRANSMISSION SECTIONAL VIEW

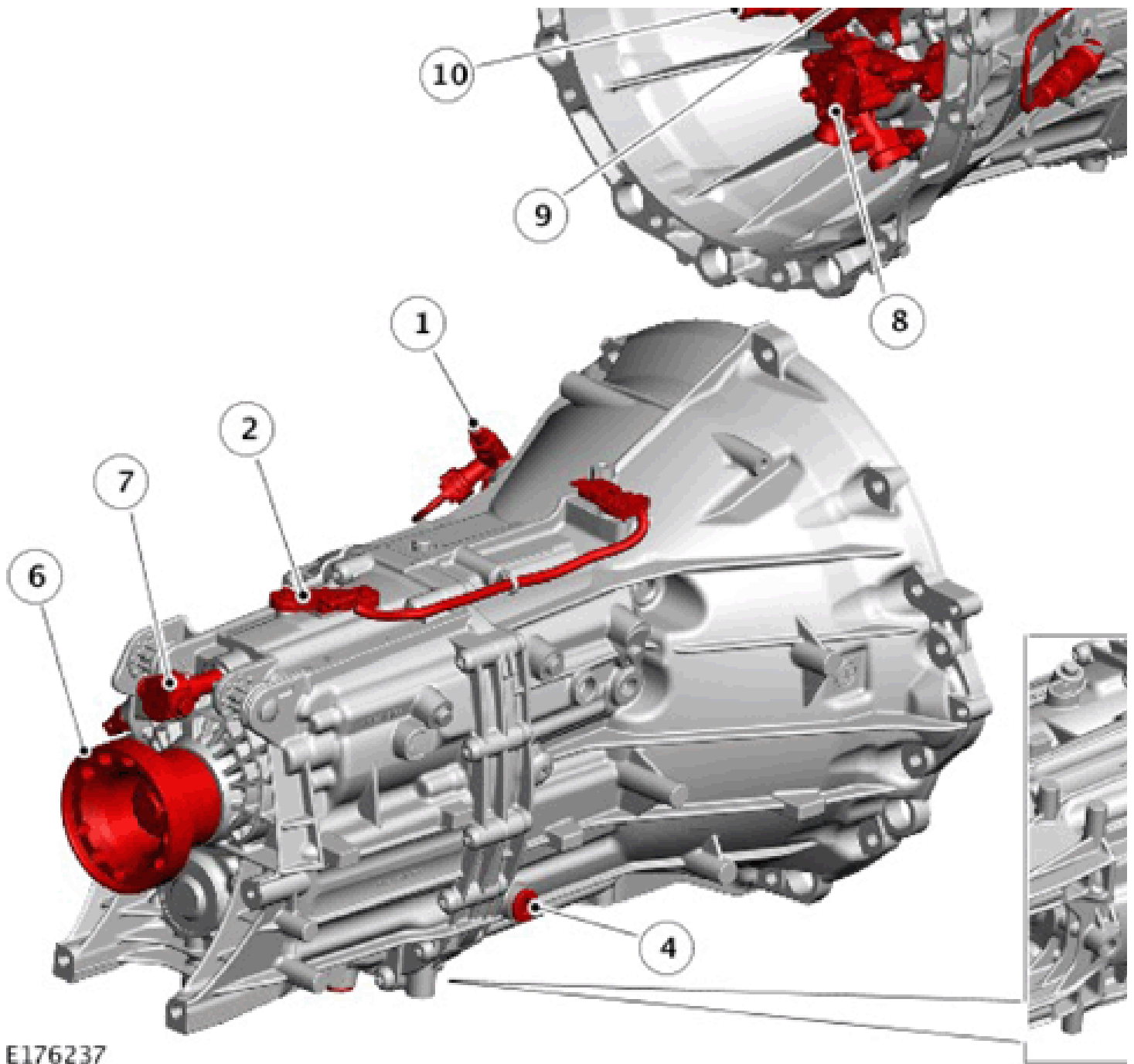


E174443

For selector lever description refer to [MANUAL TRANSMISSION/TRANSAXLE EXTERNAL CONTROLS](#) .

For additional information, refer to: External Controls - [DESCRIPTION AND OPERATION](#) .





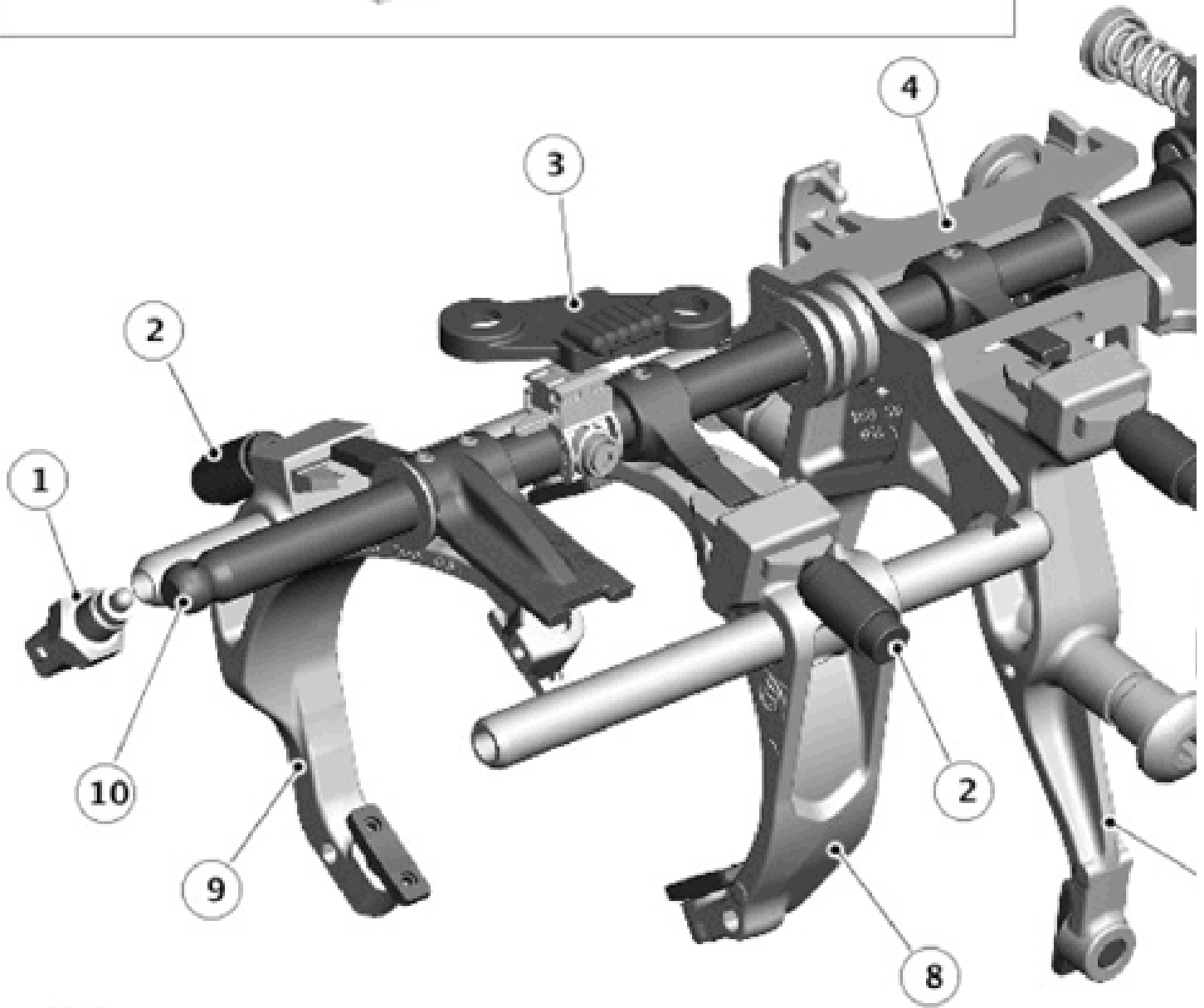
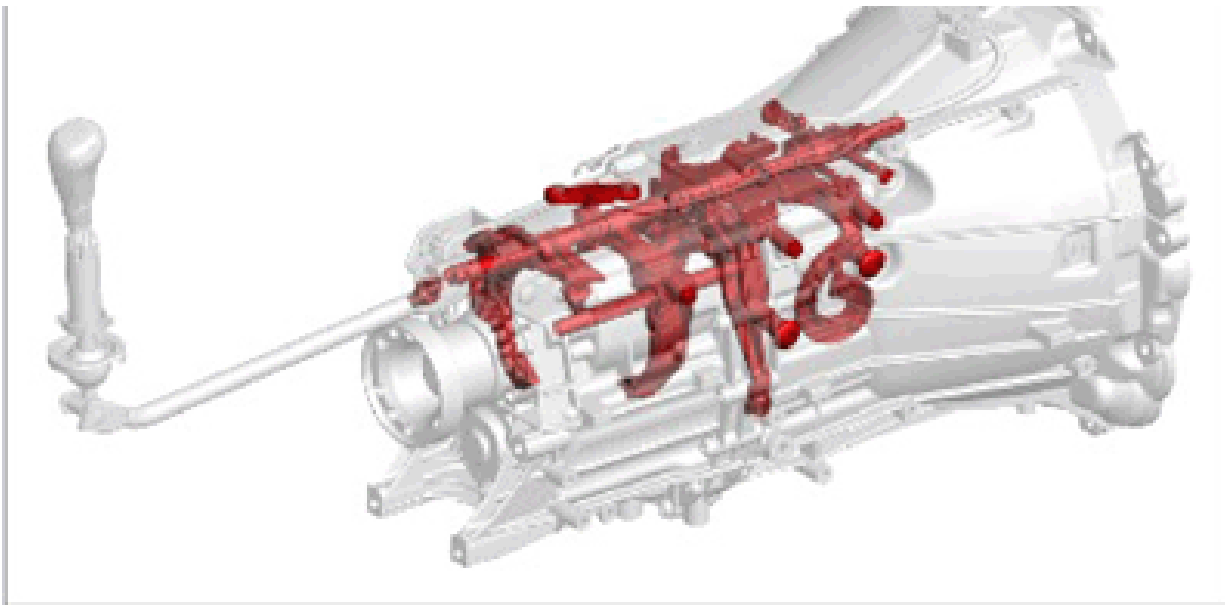
E176237

ITEM	DESCRIPTION
1	Hydraulic clutch bleed adaptor
2	Gear selector position sensor
3	Reverse switch
4	Oil level/filler plug
5	Drain plug
6	Output flange
7	Selector shaft
8	Oil pump
9	Clutch slave cylinder
10	Input shaft

SELECTOR MECHANISM







E176358

ITEM	DESCRIPTION
1	Reverse switch

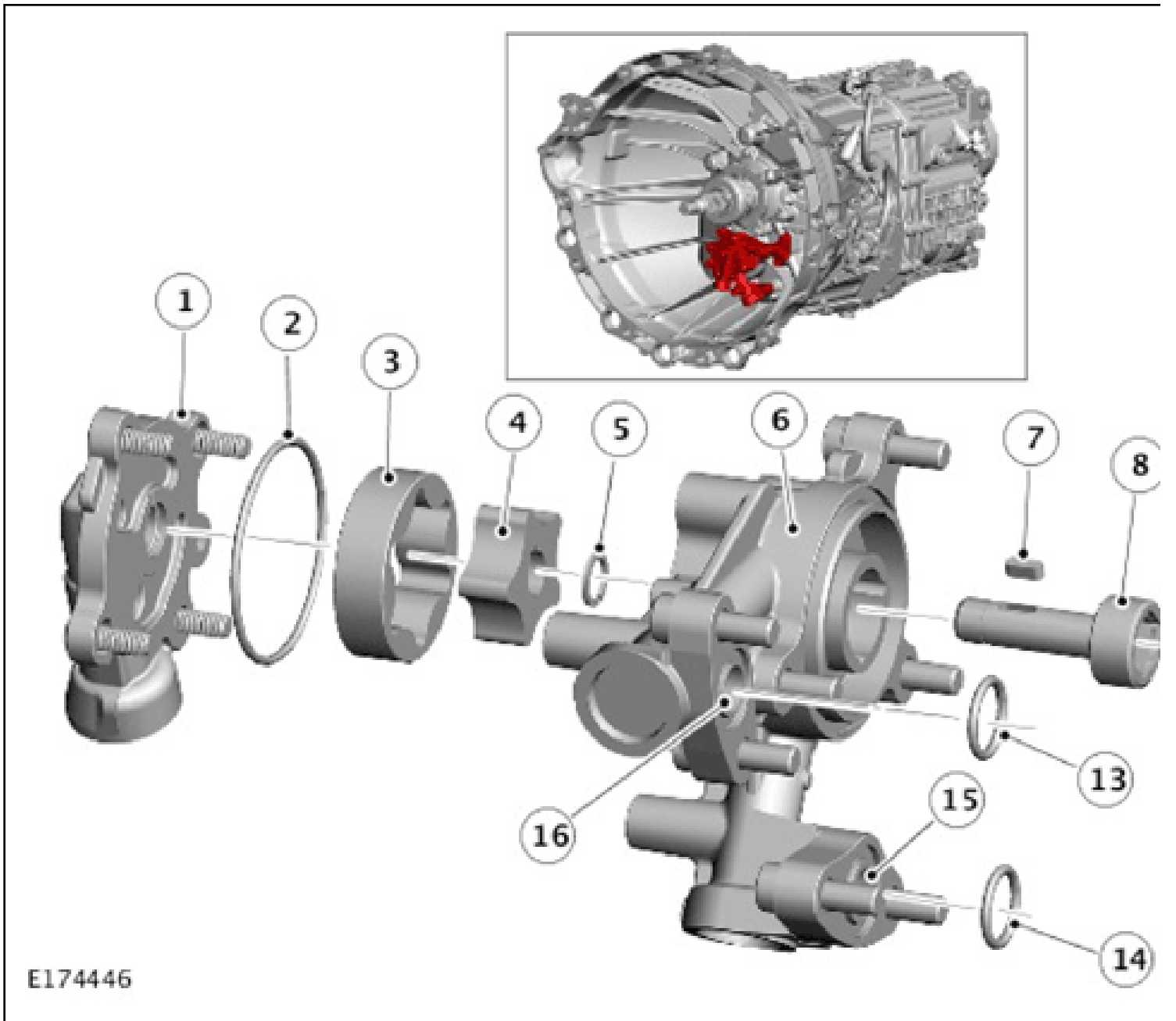
ITEM	DESCRIPTION
2	Detent
3	Gear selector position sensor
4	Gear interlock assembly
5	Selector shaft detent assembly
6	Shift fork - 5th/6th gear
7	Shift fork - 3rd/4th gear
8	Shift fork - 1st/2nd gear
9	Shift fork - reverse gear
10	Selector shaft

The selector mechanism comprises four selector forks. Three selector forks are attached to shift rods with roll pins. The central selector fork is attached to the transmission case. Each selector fork transfers movement of the selector lever to the relevant shift coupling sleeve.

The transmission is operated by selector rod which is attached to the selector lever. Linear movement of the selector lever is passed via the selector rod to the selector shaft. The transmission selects the requested gear ratio. Synchronism is used to ensure smooth gear change transition.

A hall effect gear selector position sensor is located externally on the top of the transmission casing. The sensor detects the position of the selector shaft in relation to the selector lever and is connected to the Engine Control Module (ECM).

#### OIL PUMP



E174446

ITEM	DESCRIPTION
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ITEM	DESCRIPTION
1	Oil pump cover
2	O-ring seal
3	Outer rotor
4	Inner rotor
5	Circlip
6	Oil pump body
7	Woodruff key
8	Drive shaft
9	Circlip
10	O-ring seal
11	Drive pin
12	Adapter
13	O-ring seal
14	O-ring seal
15	Inlet from filter
16	Pressure outlet to spray bar

The oil pump is a positive displacement, gerotor type oil pump. The pump is capable of producing oil pressure of up to 1 Bar (14.5 lbf/in<sup>2</sup>).

The oil pump is located in the transmission housing, adjacent to the input shaft. The pump is secured to the transmission casing with seven torx screws.

O rings seal the low pressure inlet, high pressure outlet and the oil pump body to the transmission casing.

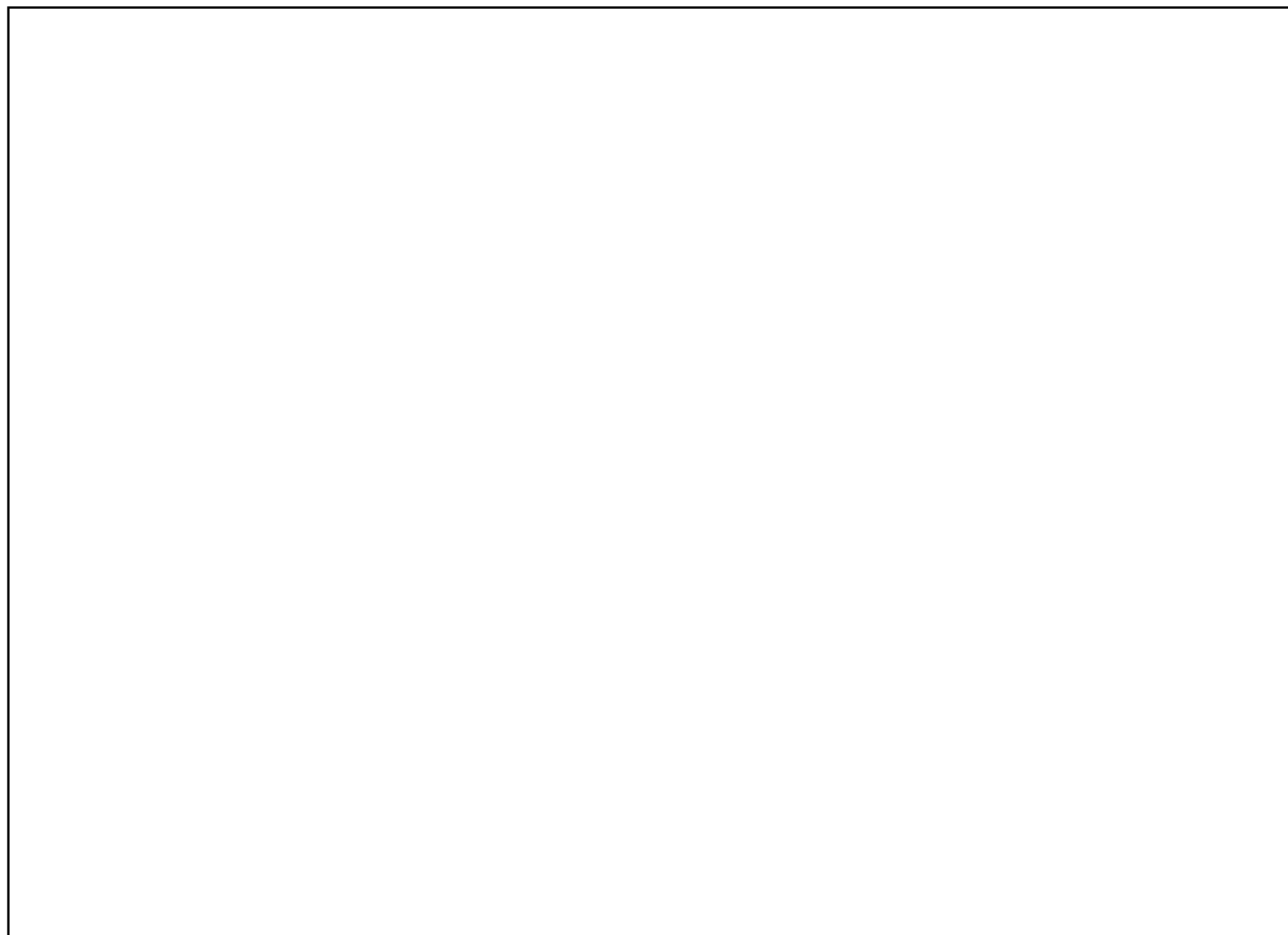
The oil pump comprises an oil pump body, an oil pump cover, an outer rotor, an inner rotor and a drive shaft.

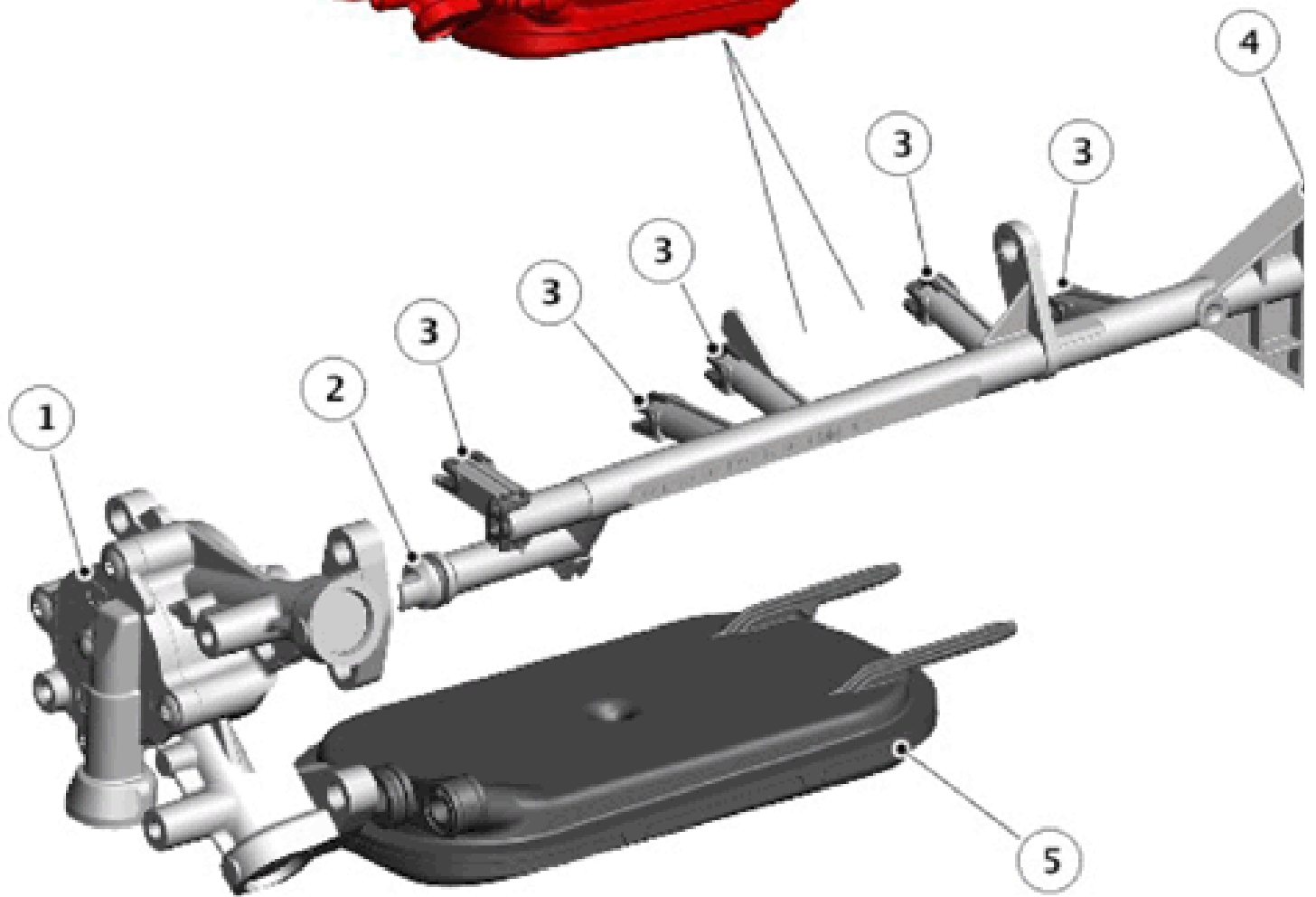
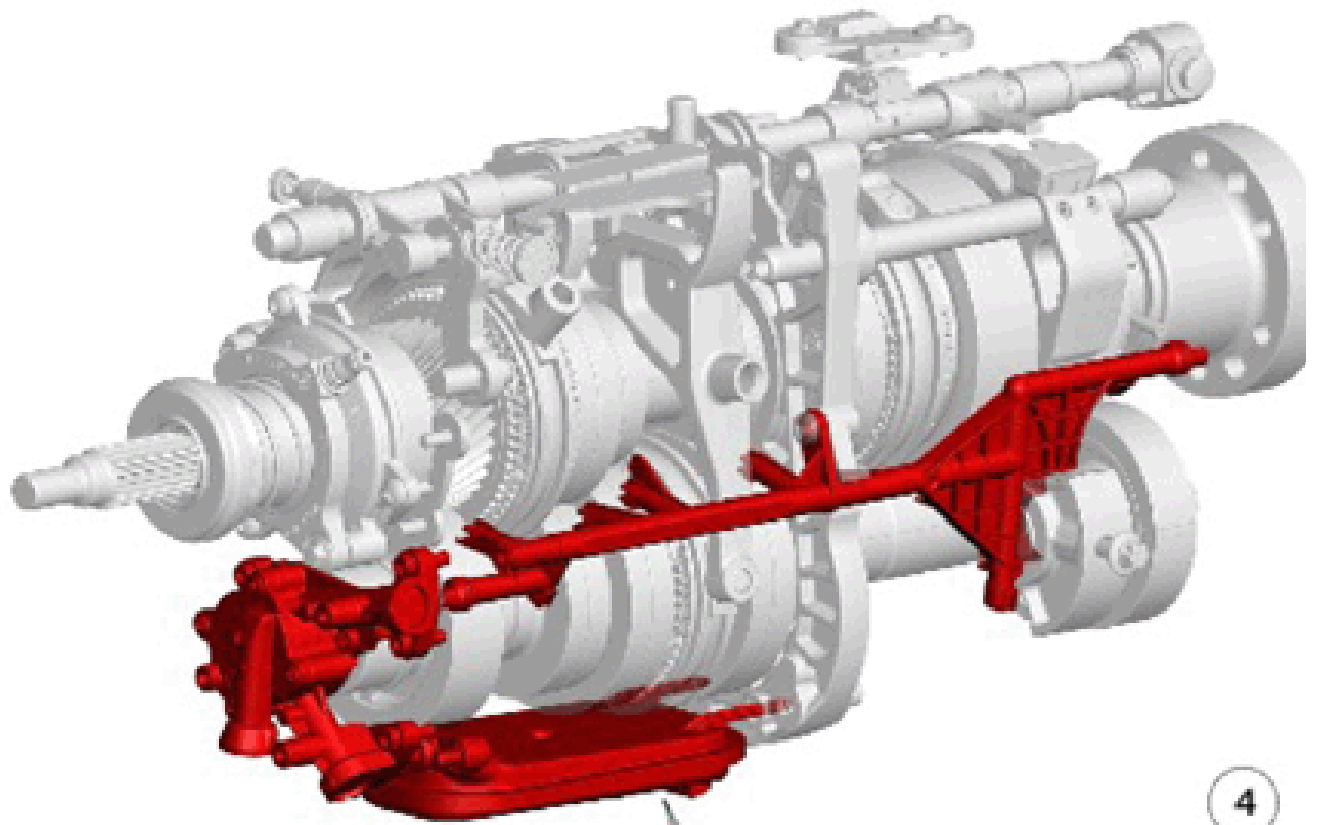
The oil pump body contains a pressure relief valve to ensure the output pressure does not exceed the optimum value. The pump cover is sealed to the oil pump body with O-r

The outer rotor rotates within the oil pump body, driven by the inner rotor. The inner rotor axis is offset to the axis of the outer rotor. A drive shaft is located in the inner rotor key. The outer end of the drive shaft has an internal hexagon, which mates with a hexagon on the adapter.

The oil pump is driven by the transmission lay shaft. The adapter is fitted with a drive pin which engages in two internal slots in the end of the lay shaft.

#### OIL DISTRIBUTION





E174447

ITEM	DESCRIPTION
1	Oil pump
2	Pressure inlet
3	Spray orifice
4	Spray bar
5	Filter

The oil is drawn into the pump via a filter located in the bottom of the transmission casing. Pressurized oil is supplied from the oil pump, through a drilling in the transmission along the length of the transmission main shaft and delivers oil onto the gears, bearings and synchromesh.

#### GEAR SELECTOR POSITION SWITCH

The gear selector position switch is located on the top of the rear transmission casing. The switch is secured to the casing with two screws. An electrical connector provides for power and ground.

The ECM provides a 5V power supply and also a ground. The remaining connections provide signal and angle feedback relative to the gear selector lever position.

A magnet is located on the selector shaft within the transmission. The magnet rotates and moves fore and aft with the selector shaft. The hall effect gear selector position sensor sends the signal to the ECM.

#### REVERSE SWITCH

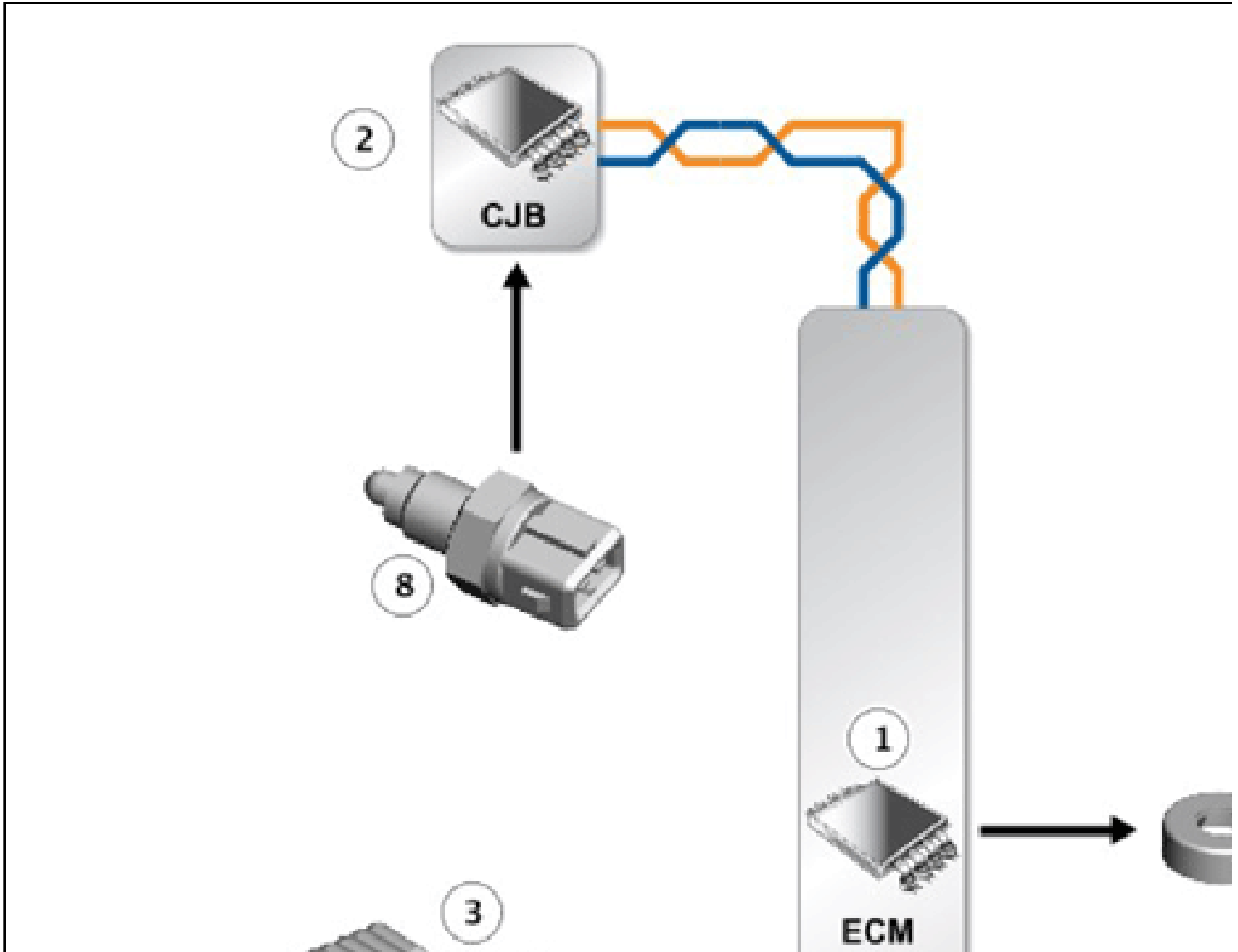
The reverse switch is located on the left rear of the rear transmission casing. The switch is a plunger type switch.

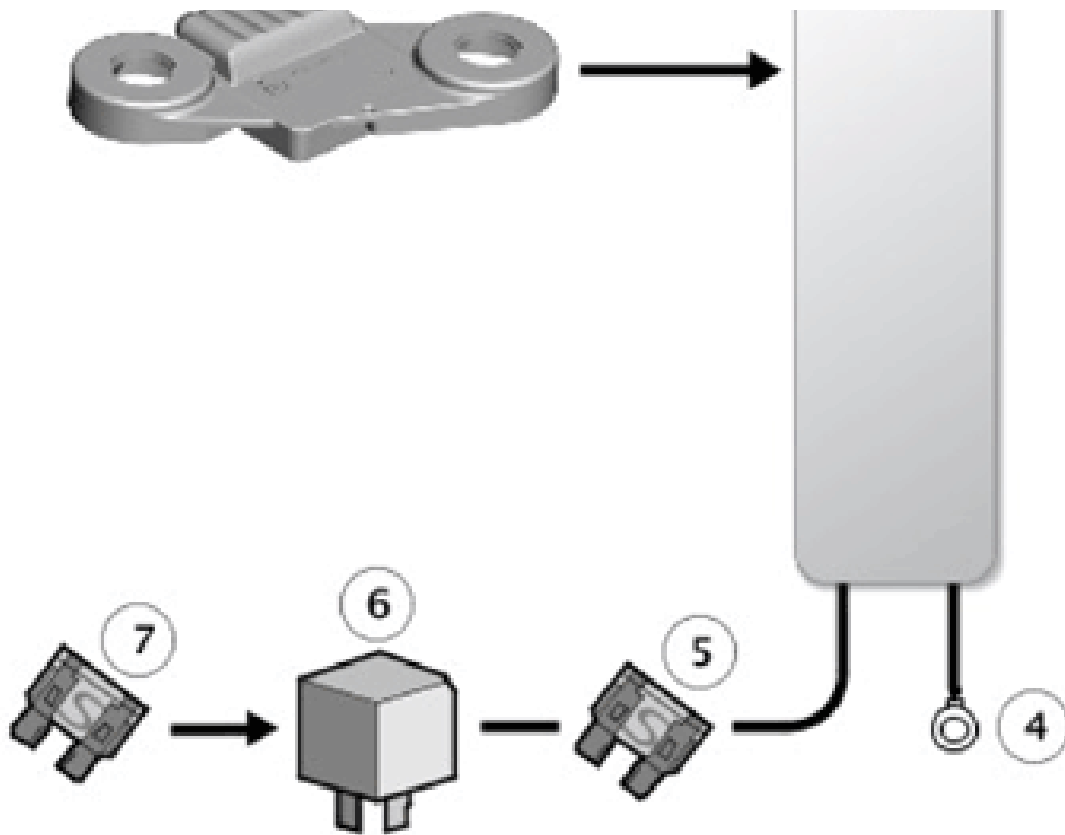
The switch is connected to ground and also the Central Junction Box (CJB) assembly.

When reverse gear is selected using the selector lever, the switch plunger is operated by contact with the reverse shift rod. When the switch is operated a ground path to the CJB illuminates the reverse lamps and also broadcasts the information on the high speed Controller Area Network (CAN) bus powertrain systems bus and also the high speed CAN systems, for example rear parking aid.

#### CONTROL DIAGRAM

**NOTE:** A = Hardwired; AN = High speed CAN powertrain systems bus





E174877



ITEM	DESCRIPTION
1	Engine Control Module (ECM)
2	Central Junction Box (CJB)
3	Gear selector position sensor
4	Ground
5	Fuse - Engine Junction Box (EJB)
6	Relay - ECM
7	Fuse - Auxiliary Junction Box (AJB)
8	Reverse switch

## GENERAL PROCEDURES

### TRANSMISSION DRAINING AND FILLING (G1821607)

#### Draining

**WARNING:** Observe due care when draining, as the fluid can be very hot.

#### NOTE:

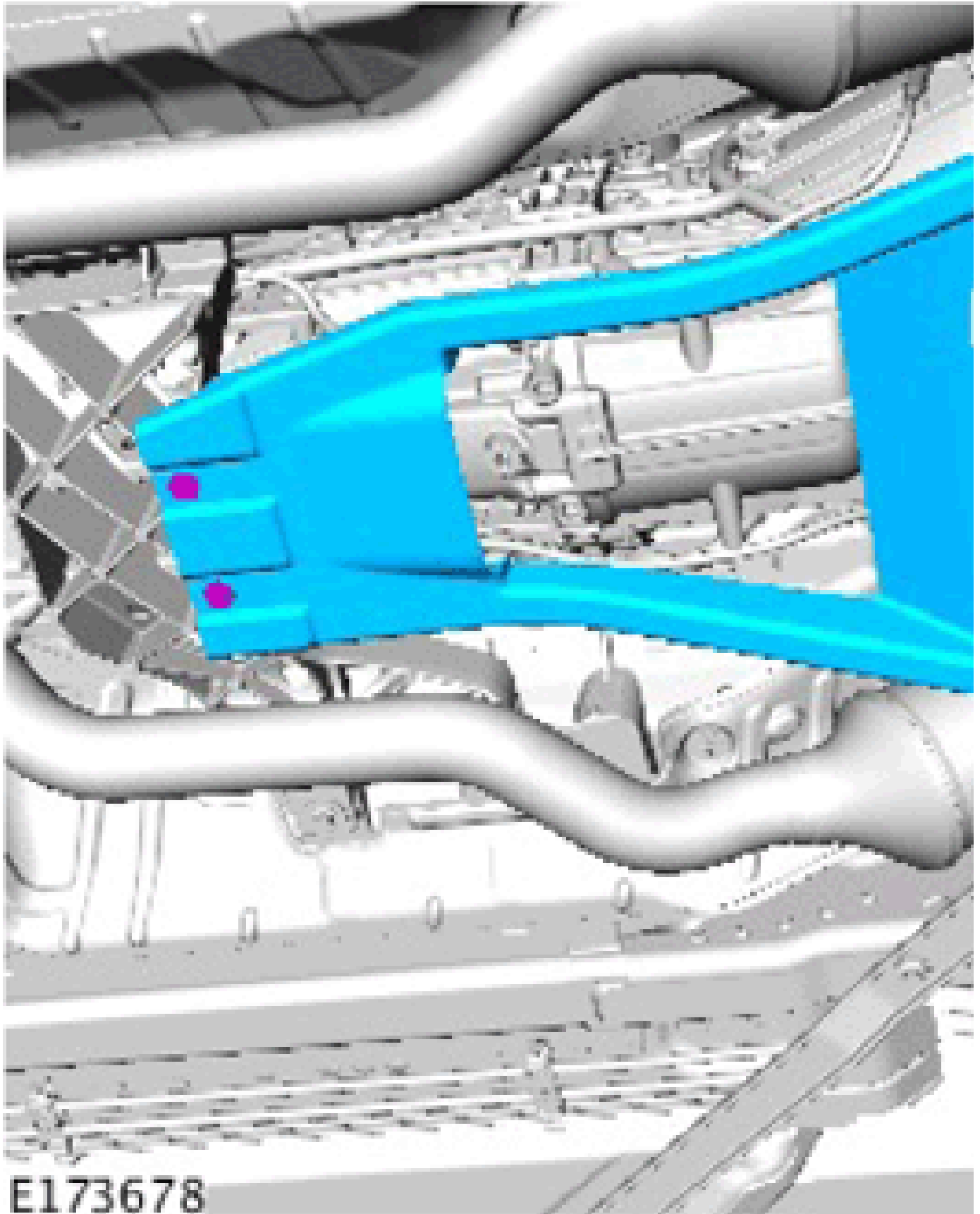
- Some variation in the illustrations may occur, but the essential information is always correct.
- Some components shown removed for clarity.
- Removal steps in this procedure may contain installation details.

1.

- Make sure to support the vehicle with axle stands.
- 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. Refer to: [Air Deflector](#) (Removal and Installation).

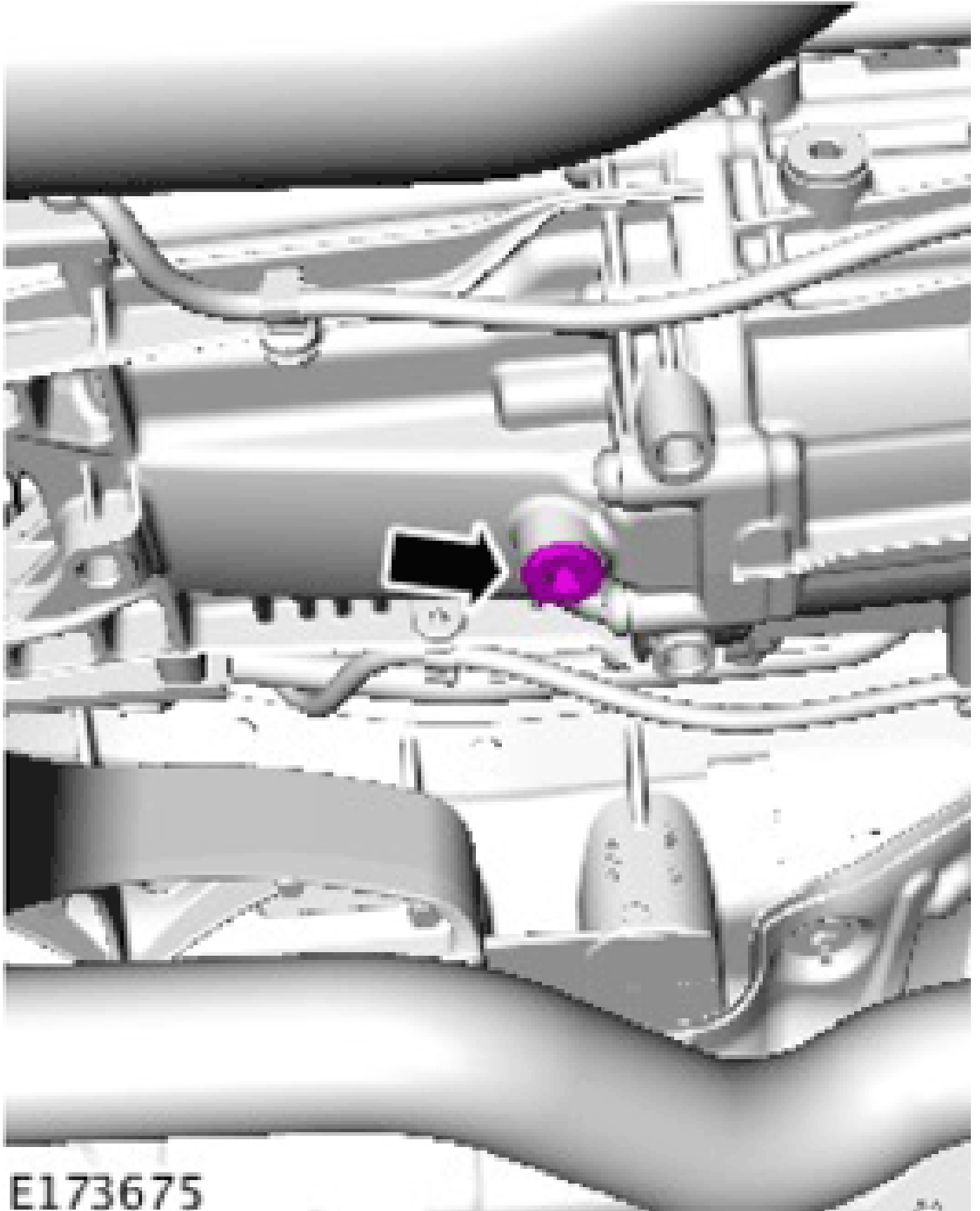
3.



*Torque Specification: 9 Nm*

4. Clean the area around the transmission fluid drain and filler plugs.
5. Place a container under the transmission.

6. **NOTE:** Remove the oil pan drain plug.



E173675

Drain the transmission fluid.



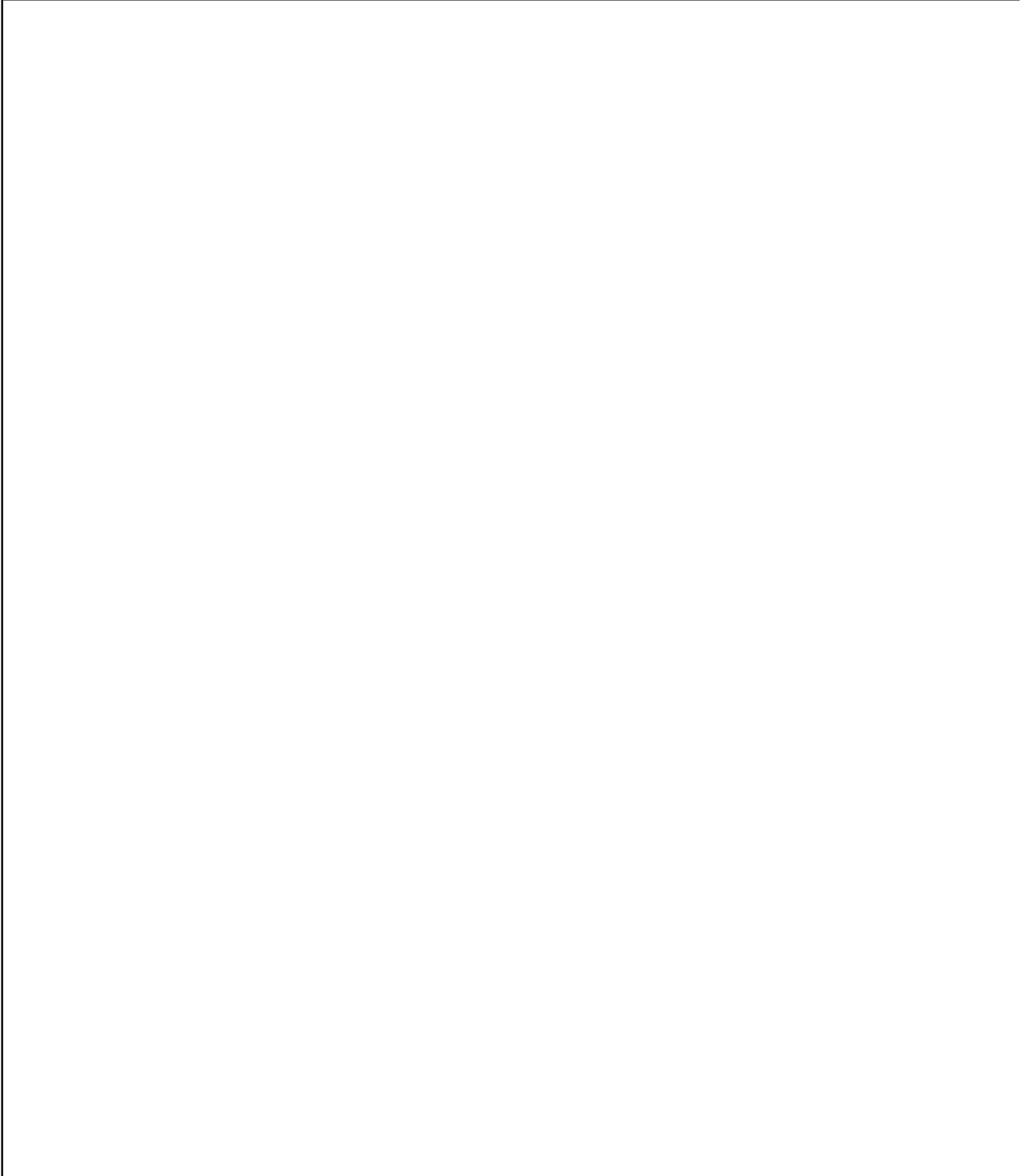
## Filling

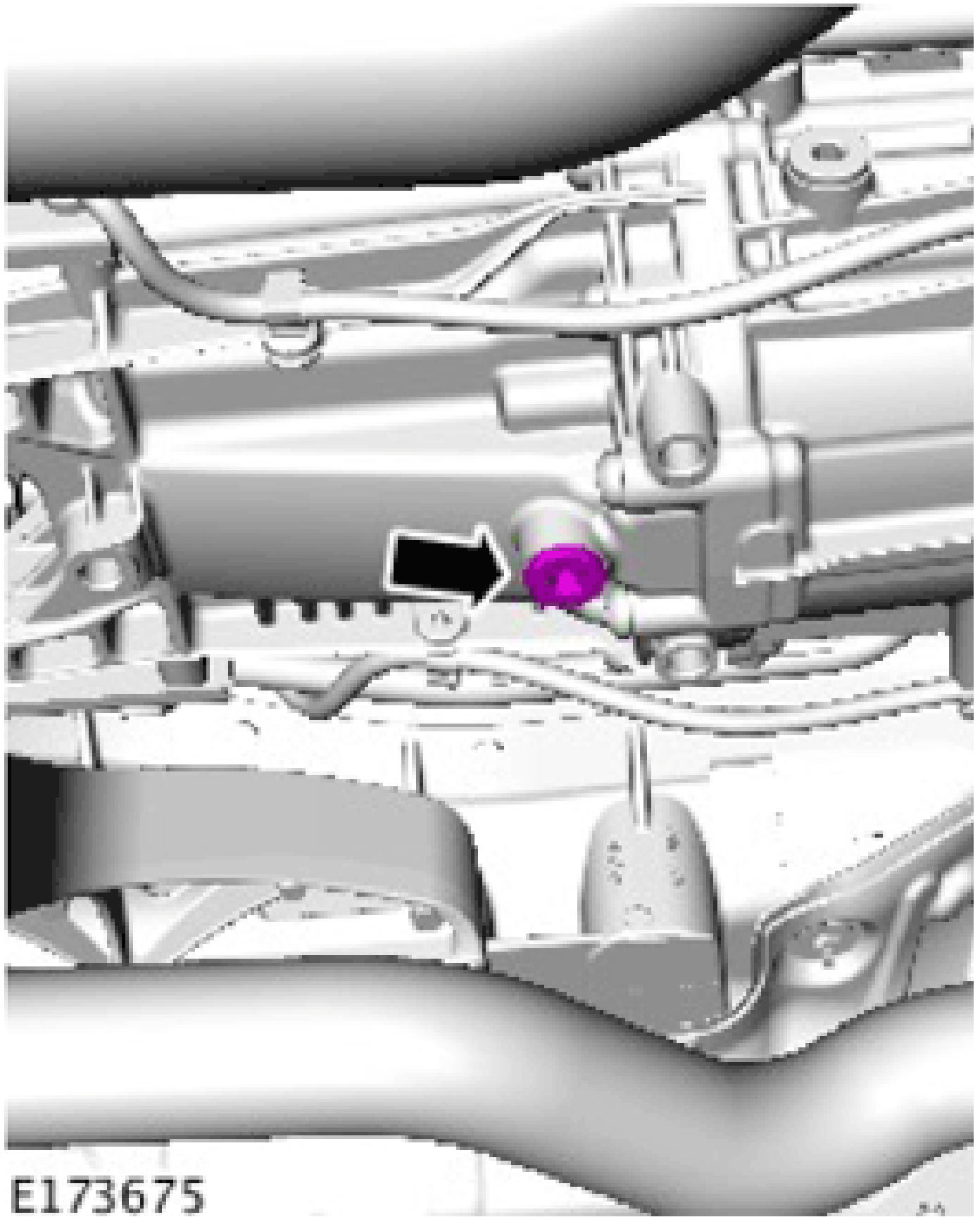
**WARNING:** Observe due care when draining, as the fluid can be very hot.

**NOTE:**

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

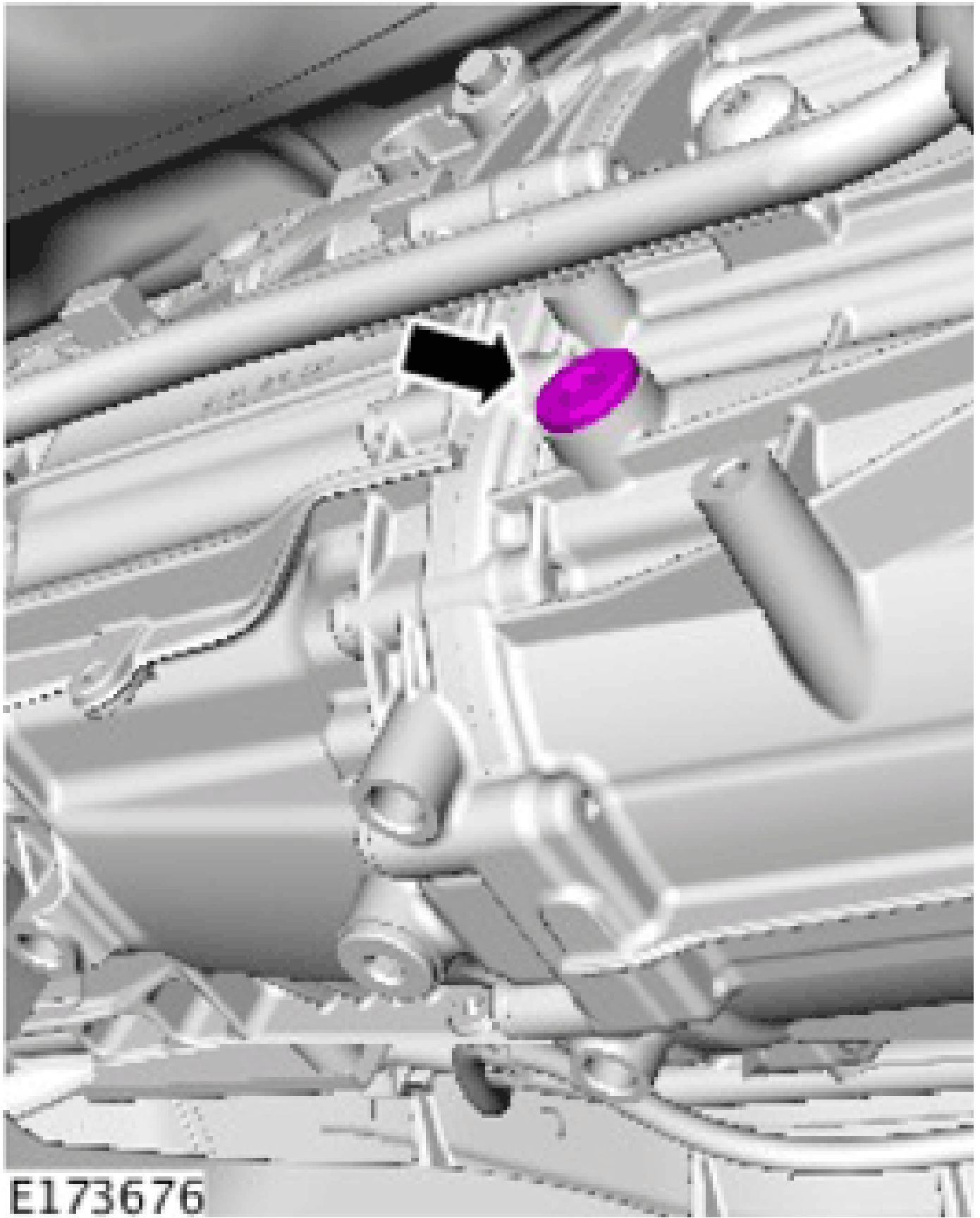
1. **NOTE:** Remove the oil pan drain plug.



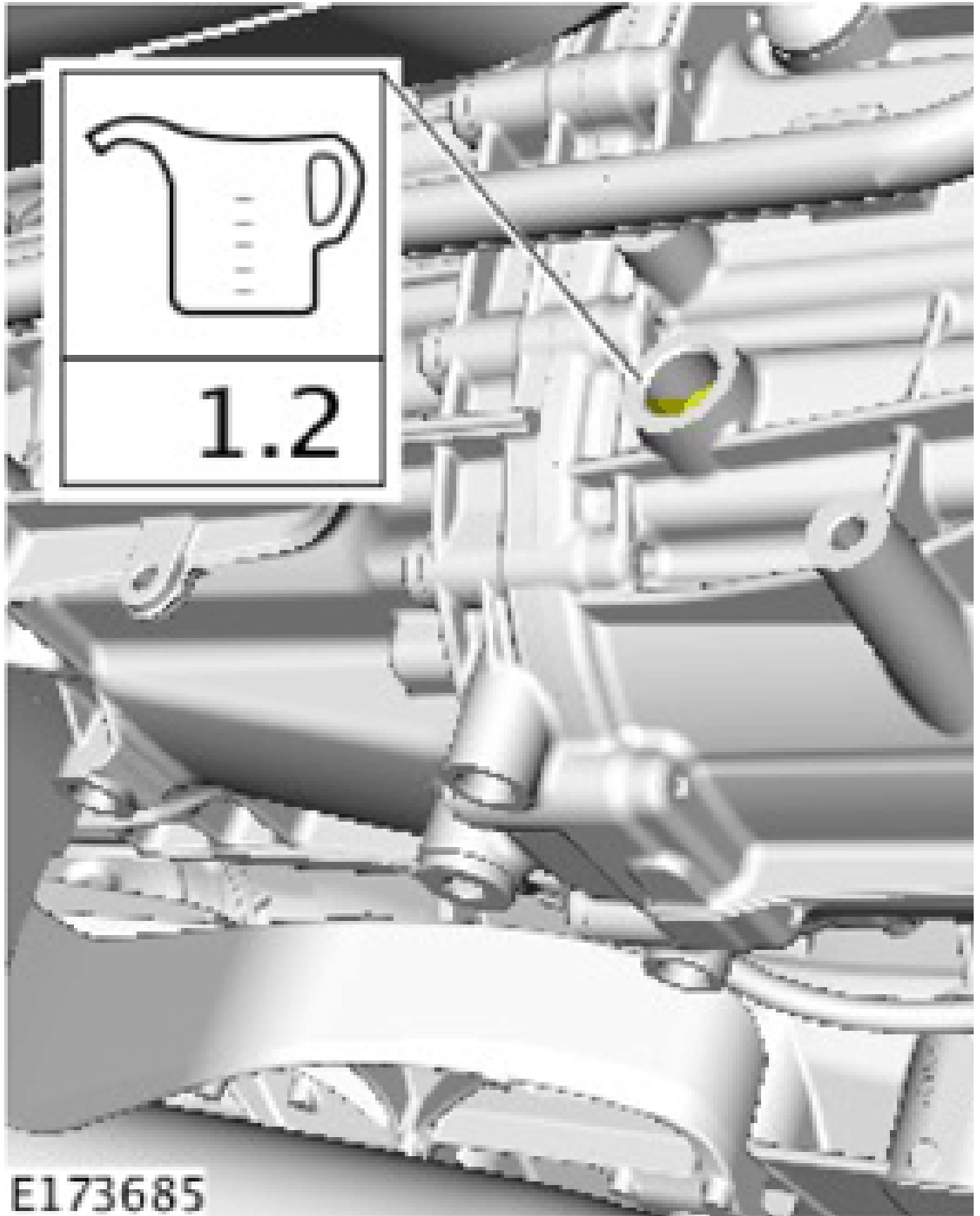


*Torque Specification: 43 Nm*

2. **NOTE:** Discard the sealing plug.



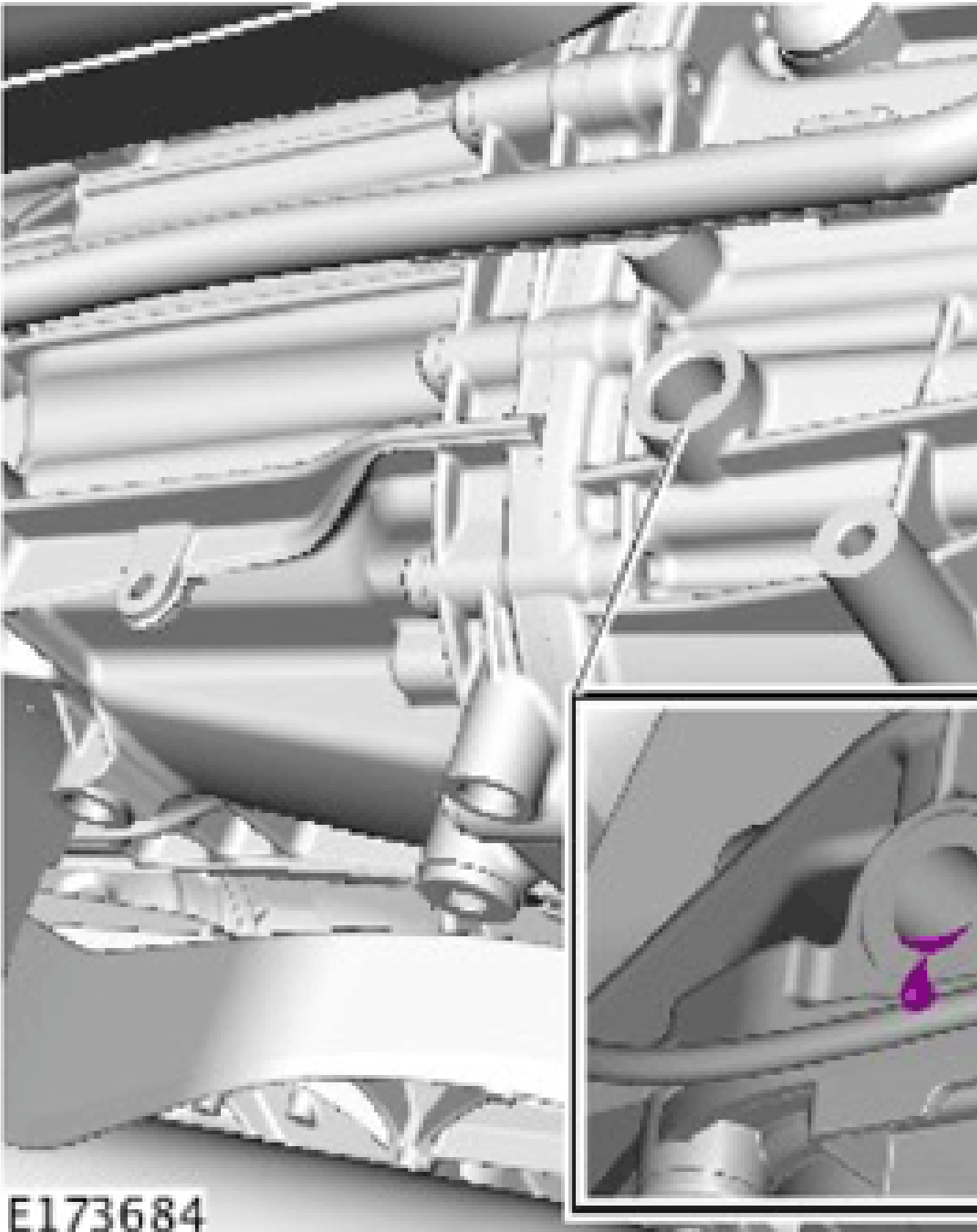
3. **NOTE:** Fill the transmission with the correct specification of fluid, to the valve indicated.



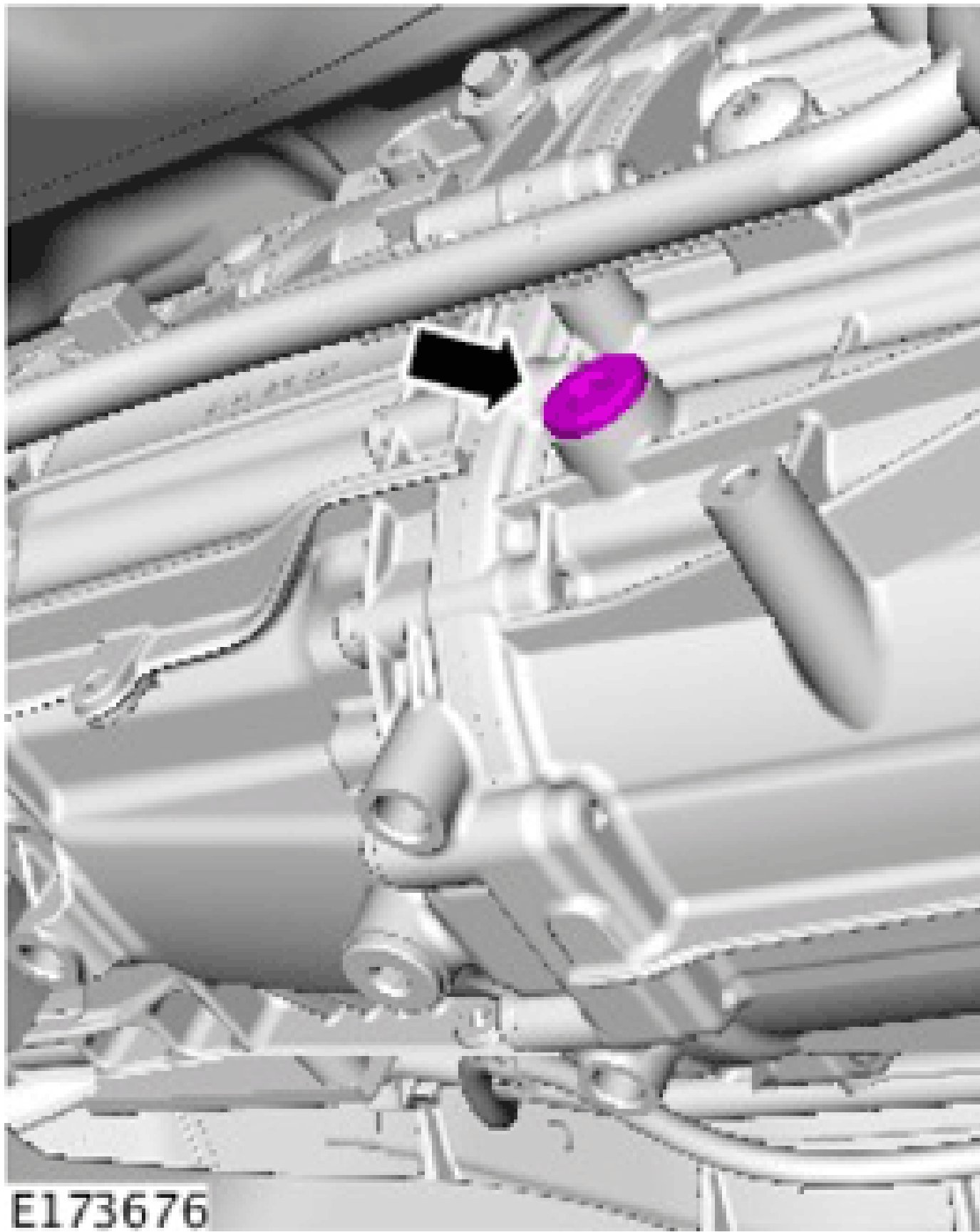
E173685

Refer to: [Specifications](#) .

**CAUTION:** If a thread of fluid runs/drips from the filler plug hole after refilling, the transmission has been overfilled. Drain the fluid and refi



5. **CAUTION:** Make sure that a new component is installed.

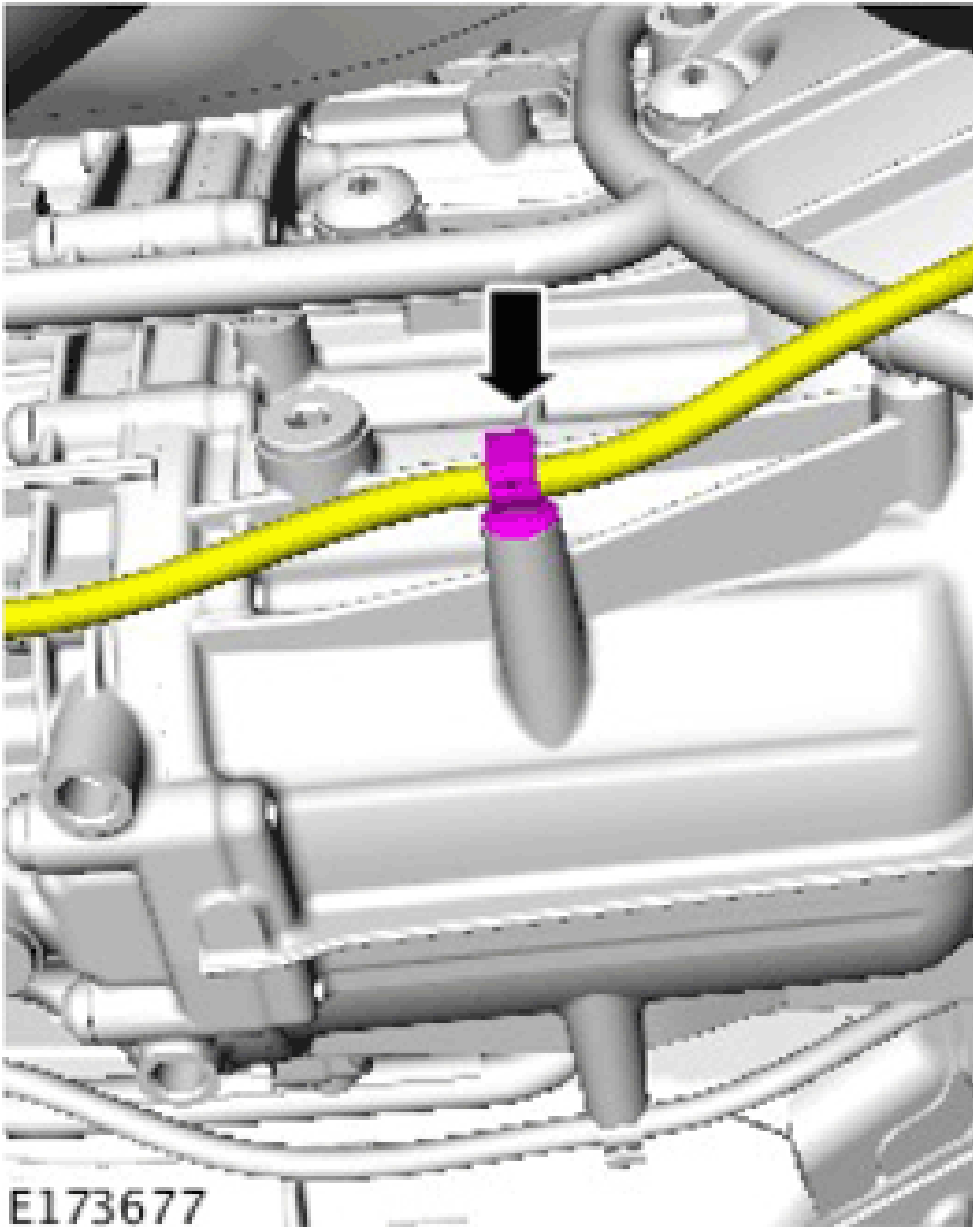


**E173676**

*Torque Specification: 43 Nm*

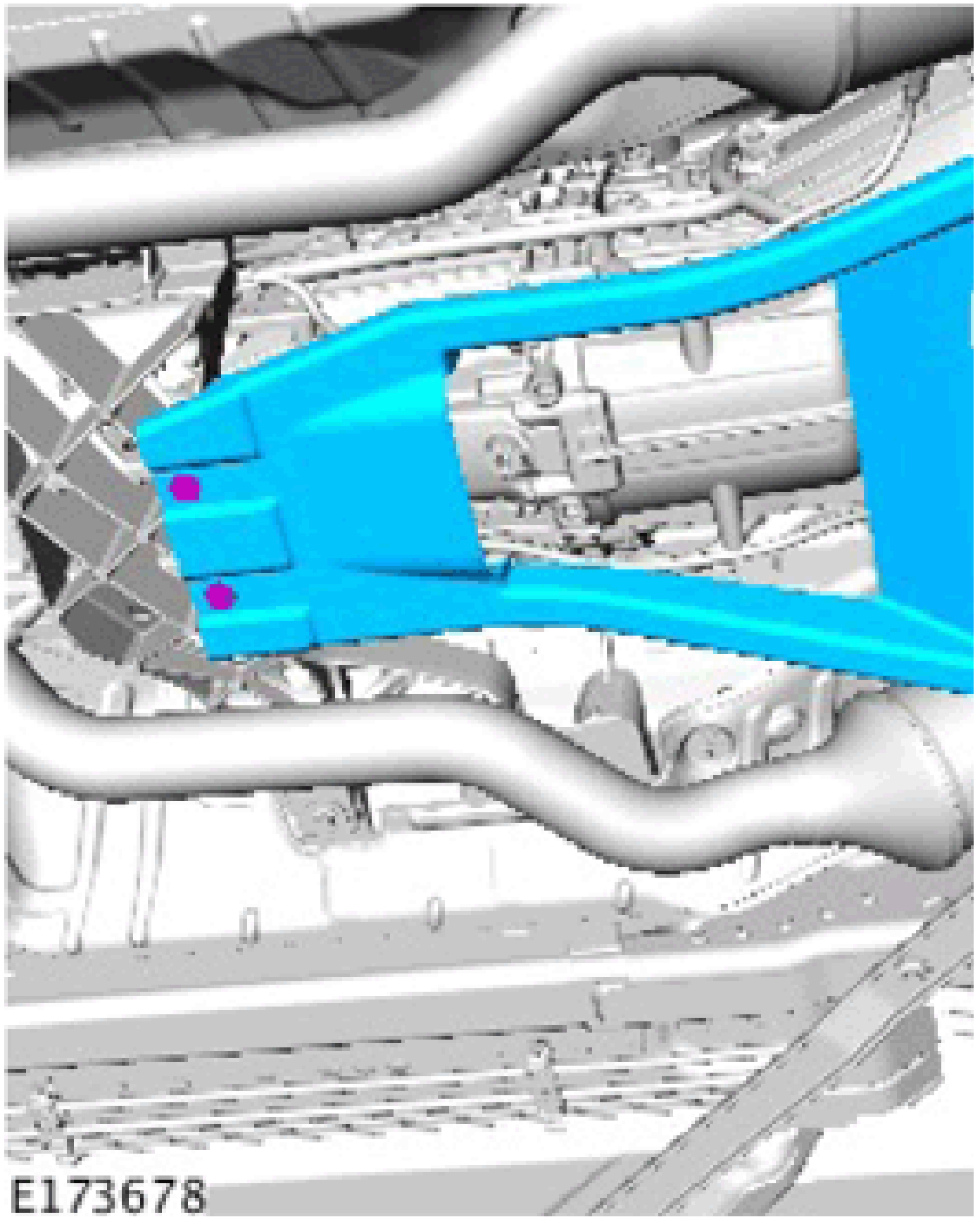
6. Clean the area around the transmission fluid drain and filler plugs.
7. Remove the container.

8.



- If necessary, install new clips.

9.



E173678

*Torque Specification: 9 Nm*

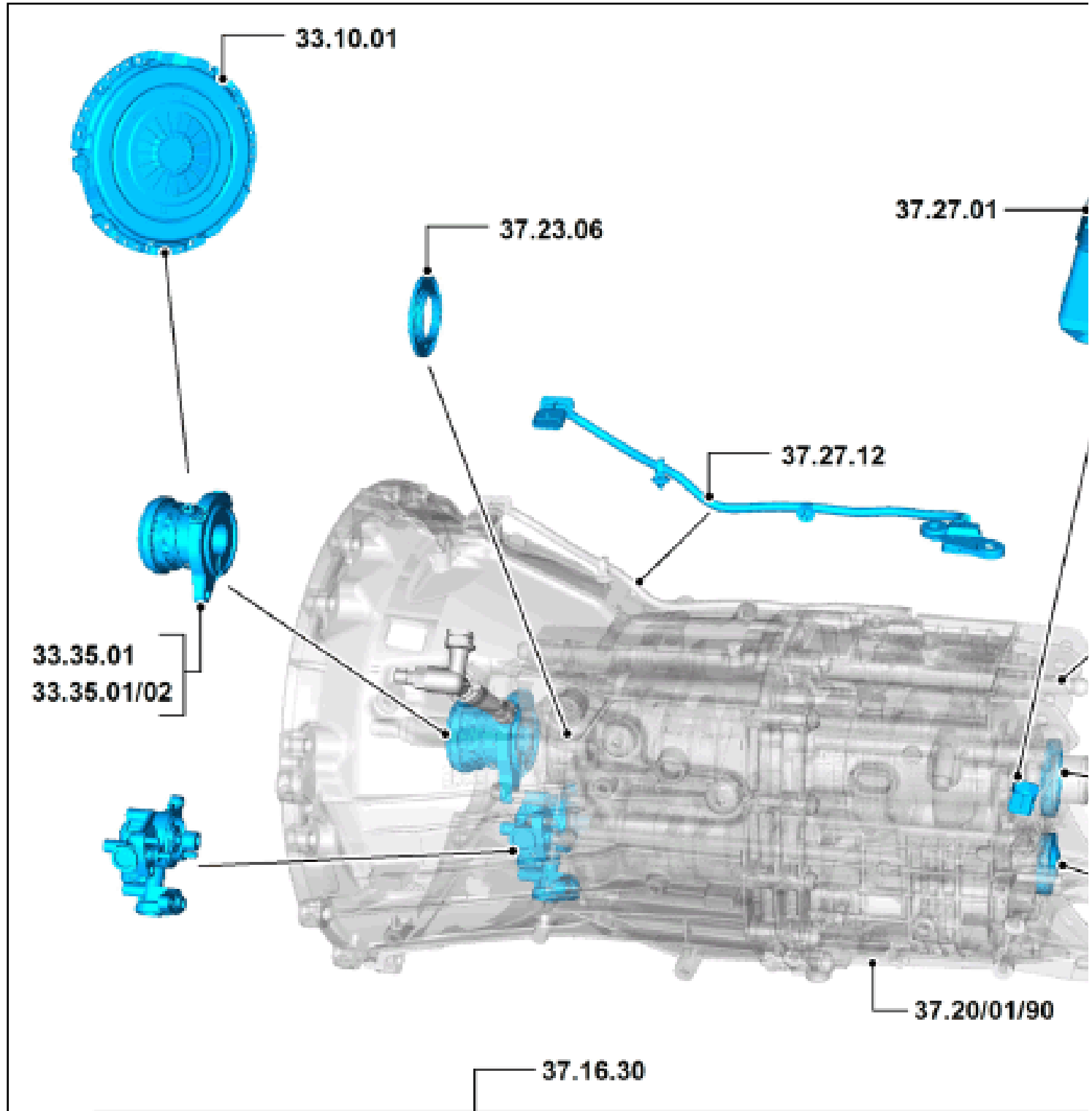
10. Refer to: [Air Deflector](#) (Removal and Installation).

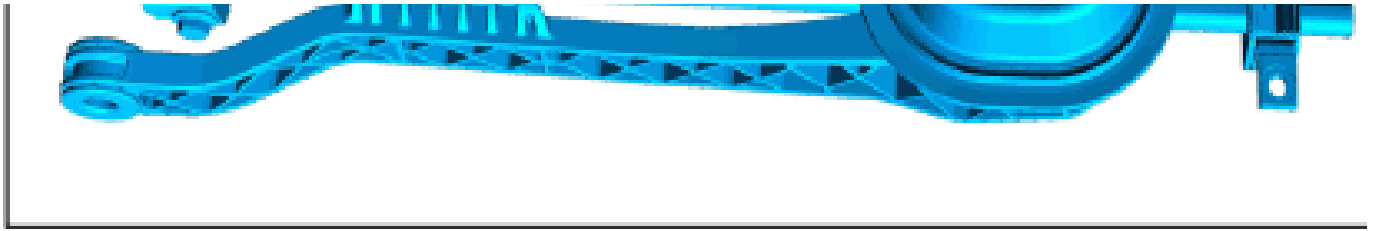


**REMOVAL AND INSTALLATION**

**GEAR SELECTOR POSITION SENSOR (G1822949)**

37.27.12	GEAR POSITION SENSOR - RENEW	3000 CC, AJ V6 (AJ126)	
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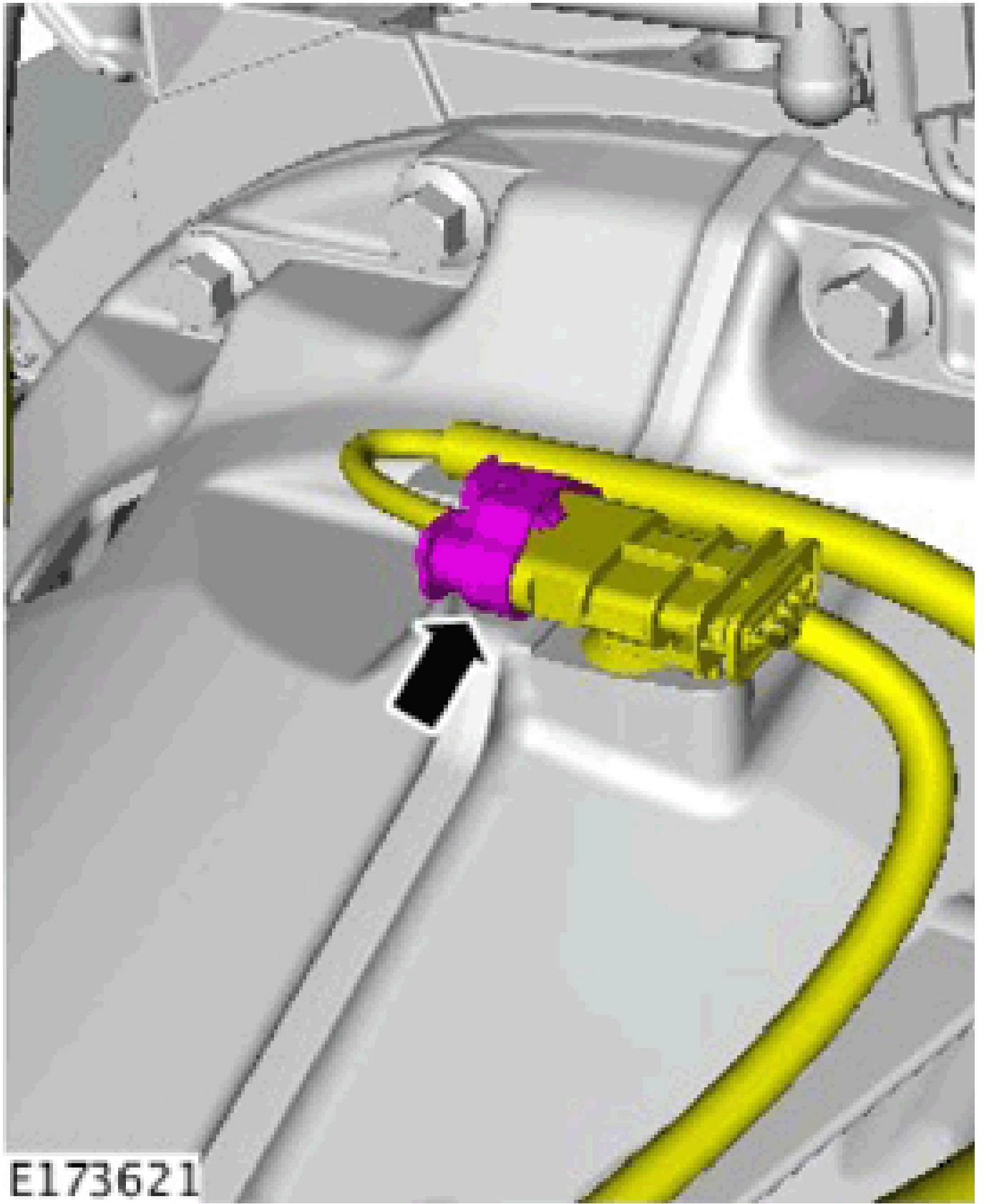
#### Removal

#### NOTE:

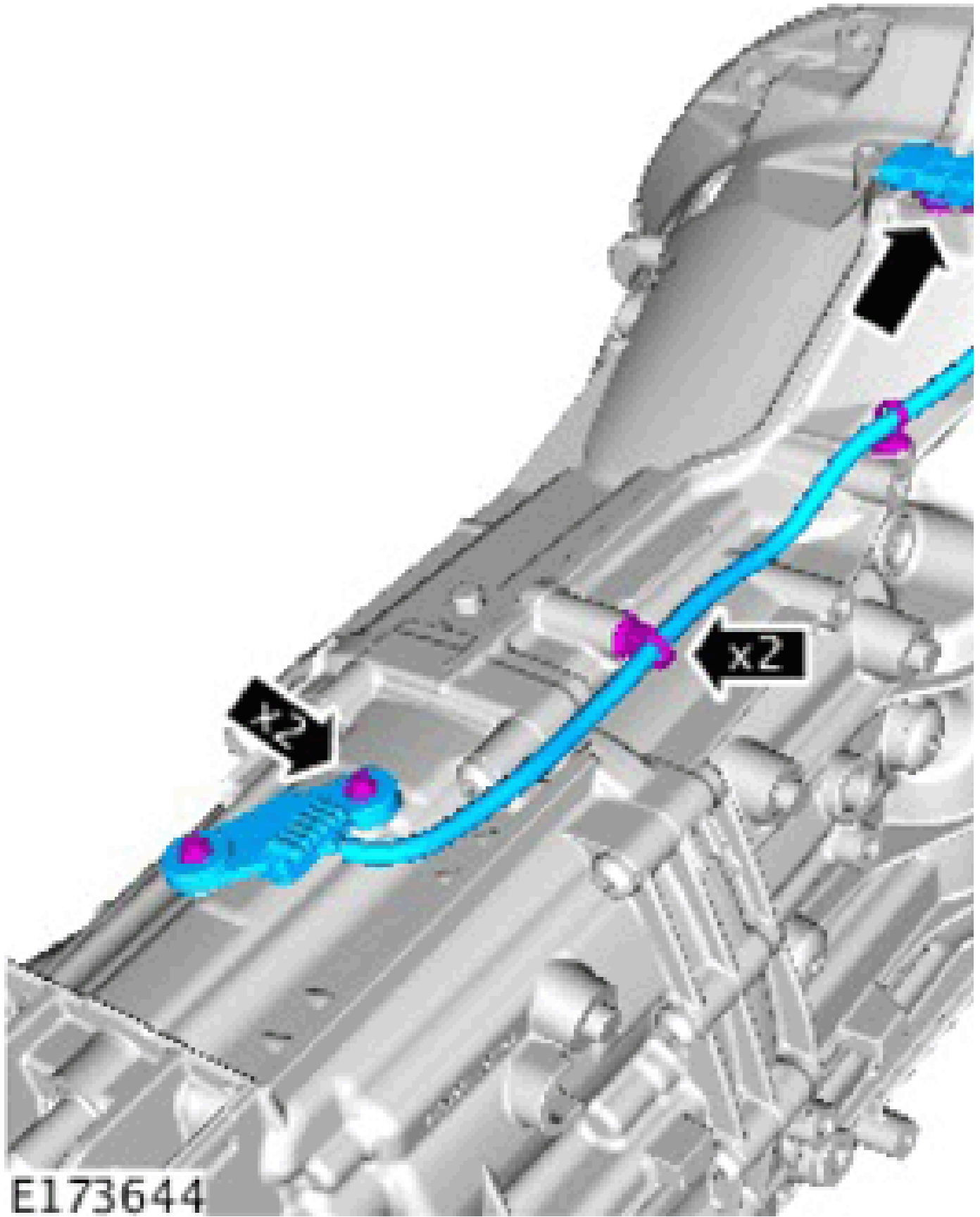
- Some variation in the illustrations may occur, but the essential information is always correct.
- Some illustrations may show the transmission removed for clarity.

1. Refer to: [Selector Lever Assembly](#) (308-06, Removal and Installation).

2.



E173621



*Torque Specification: 3 Nm*

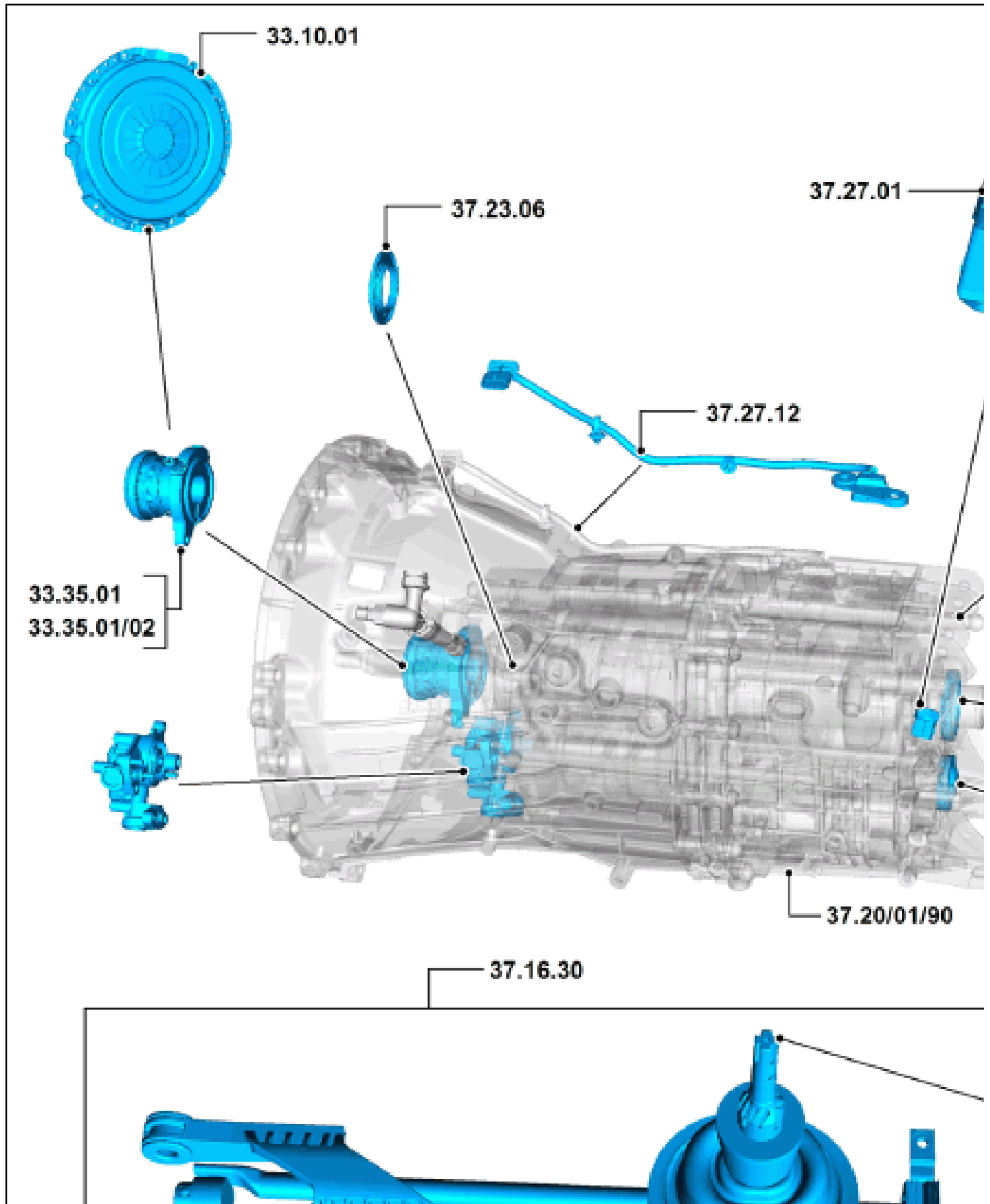
**Installation**

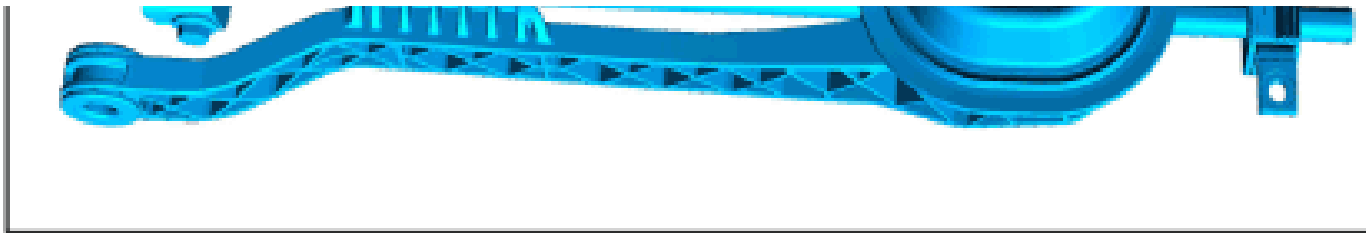
1. To install, reverse the removal procedure.

2. Configure the component using Jaguar approved diagnostic equipment.

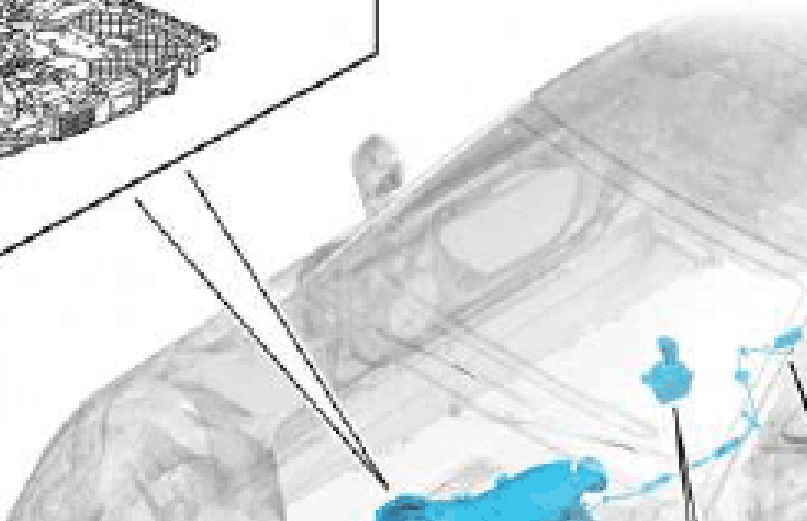
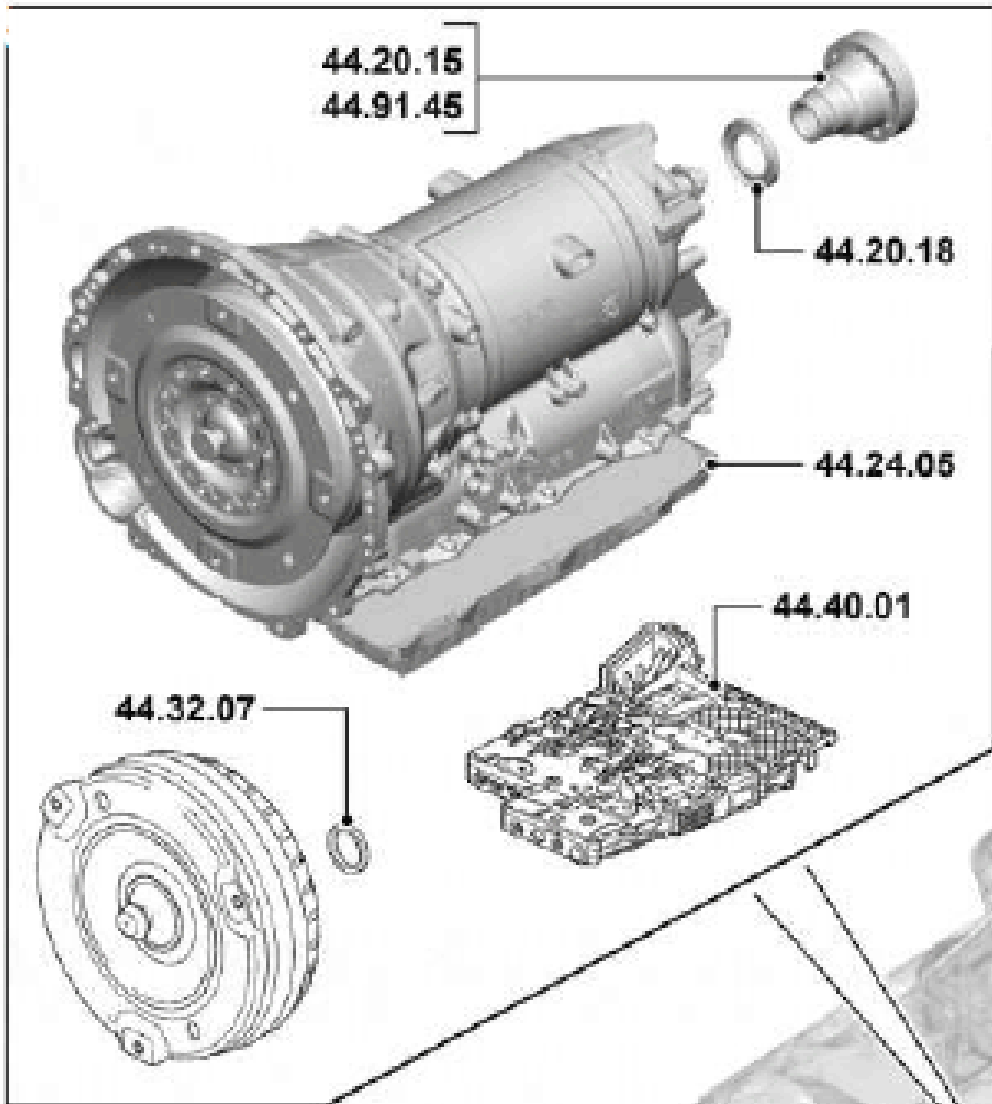
**INPUT SHAFT SEAL (G1821621)**

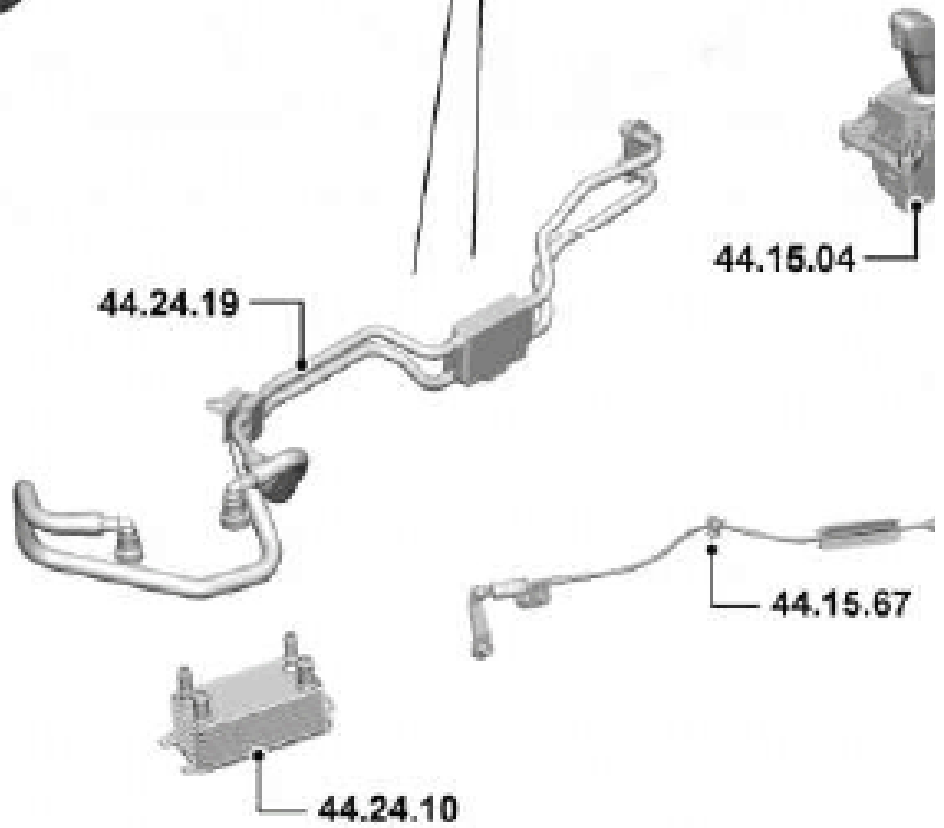
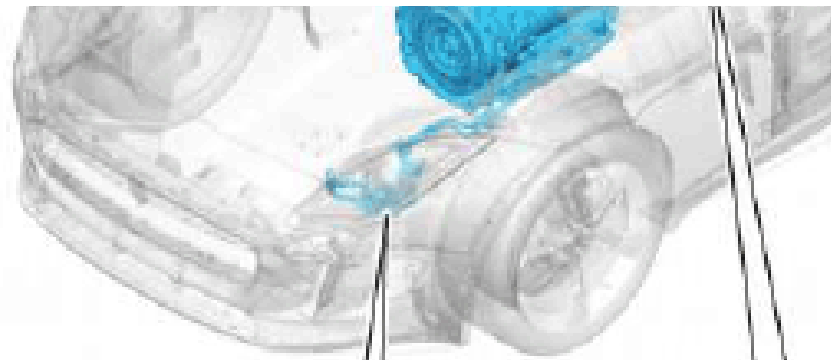
37.23.06	FRONT OIL SEAL - RENEW	3000 CC, AJ V6 (AJ126)	
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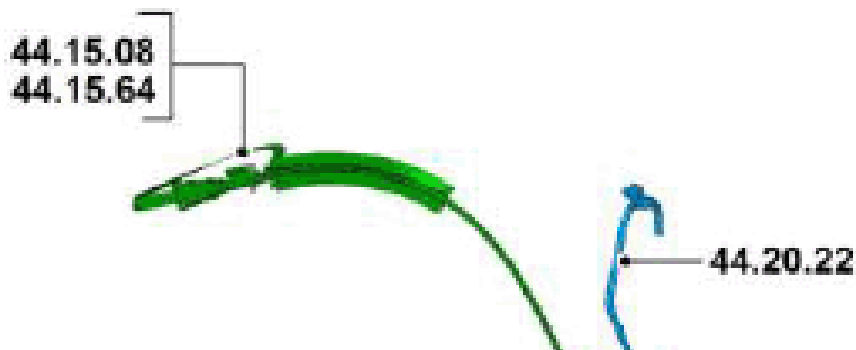


44.32.07	FRONT PUMP OIL SEAL - RENEW	3000 CC, AJ V6 (AJ126), 2WD
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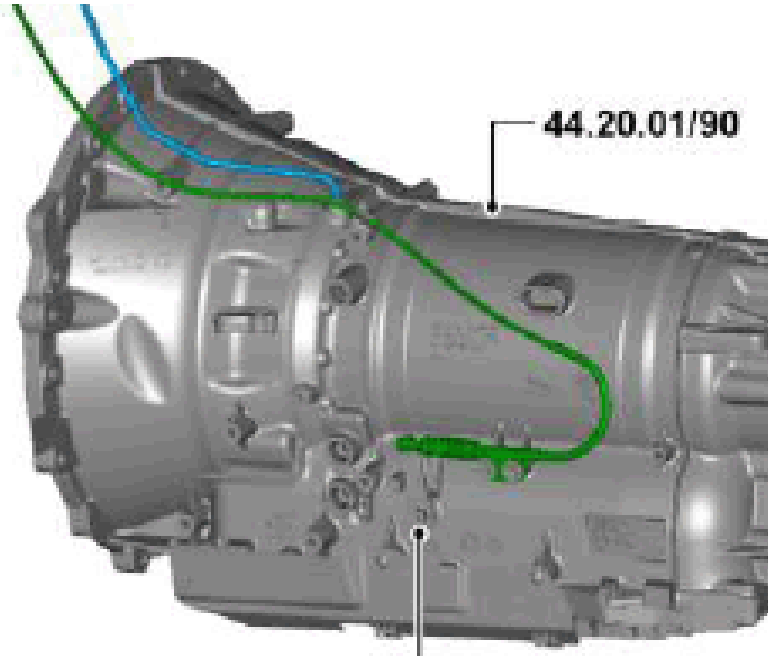
44.32.07	FRONT PUMP OIL SEAL - RENEW	3000 CC, AJ V6 (AJ126), 4WD	
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44.17.07

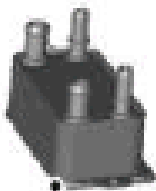


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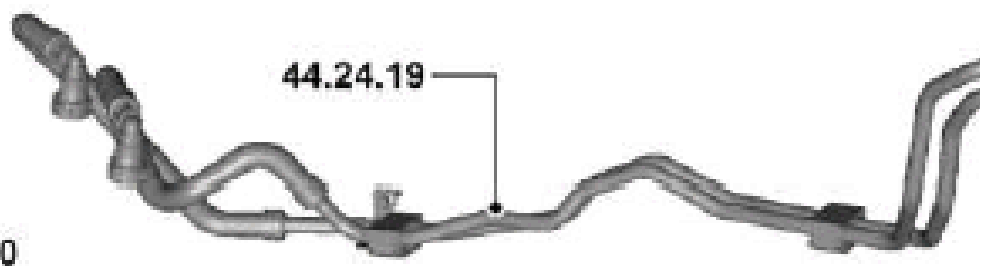


44.20.01/90

44.15.61



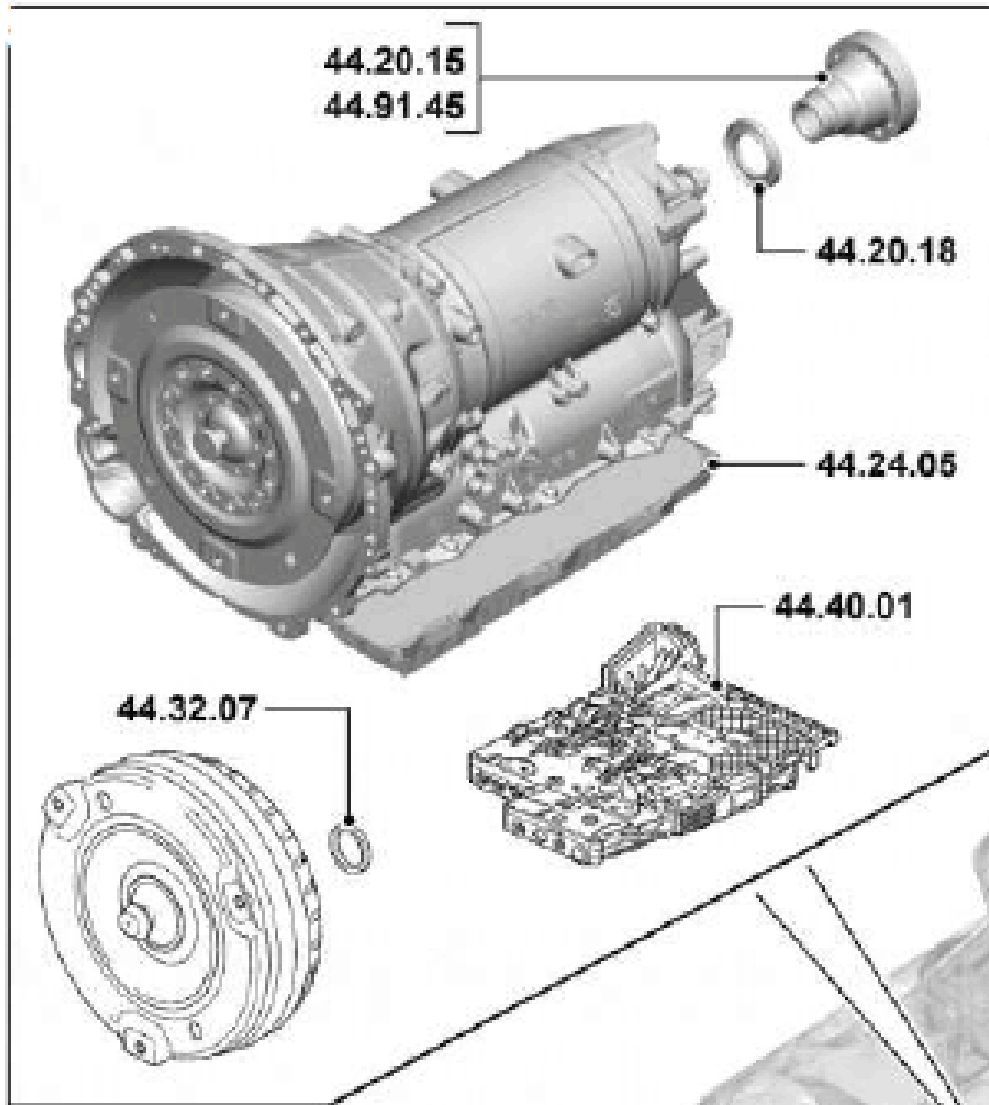
44.24.10



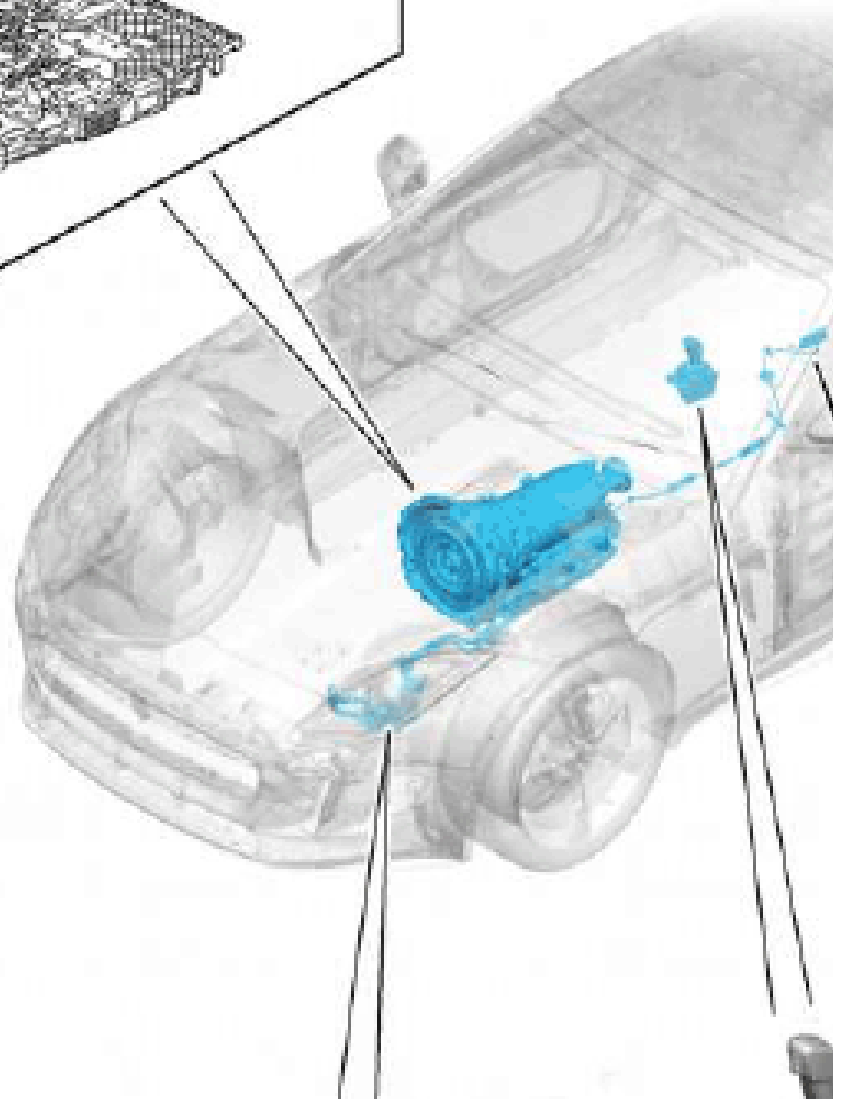
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44.91.36

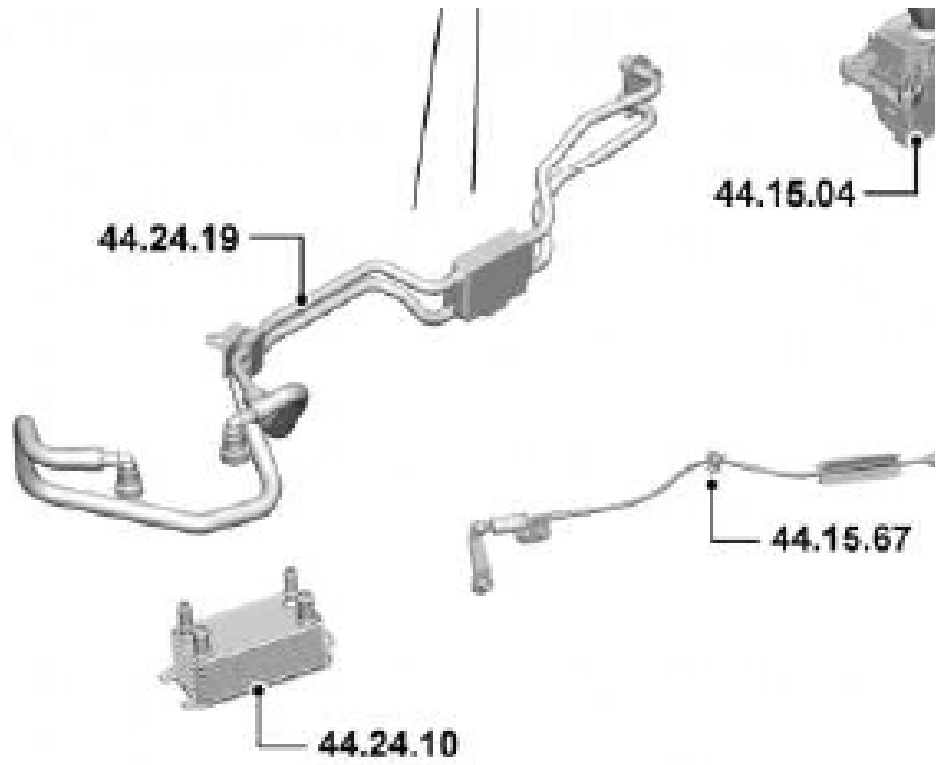




44.20.01  
44.20.01/90



44.15.63



44.32.07

FRONT PUMP OIL SEAL - RENEW

5000 CC, AJ V8, 4WD

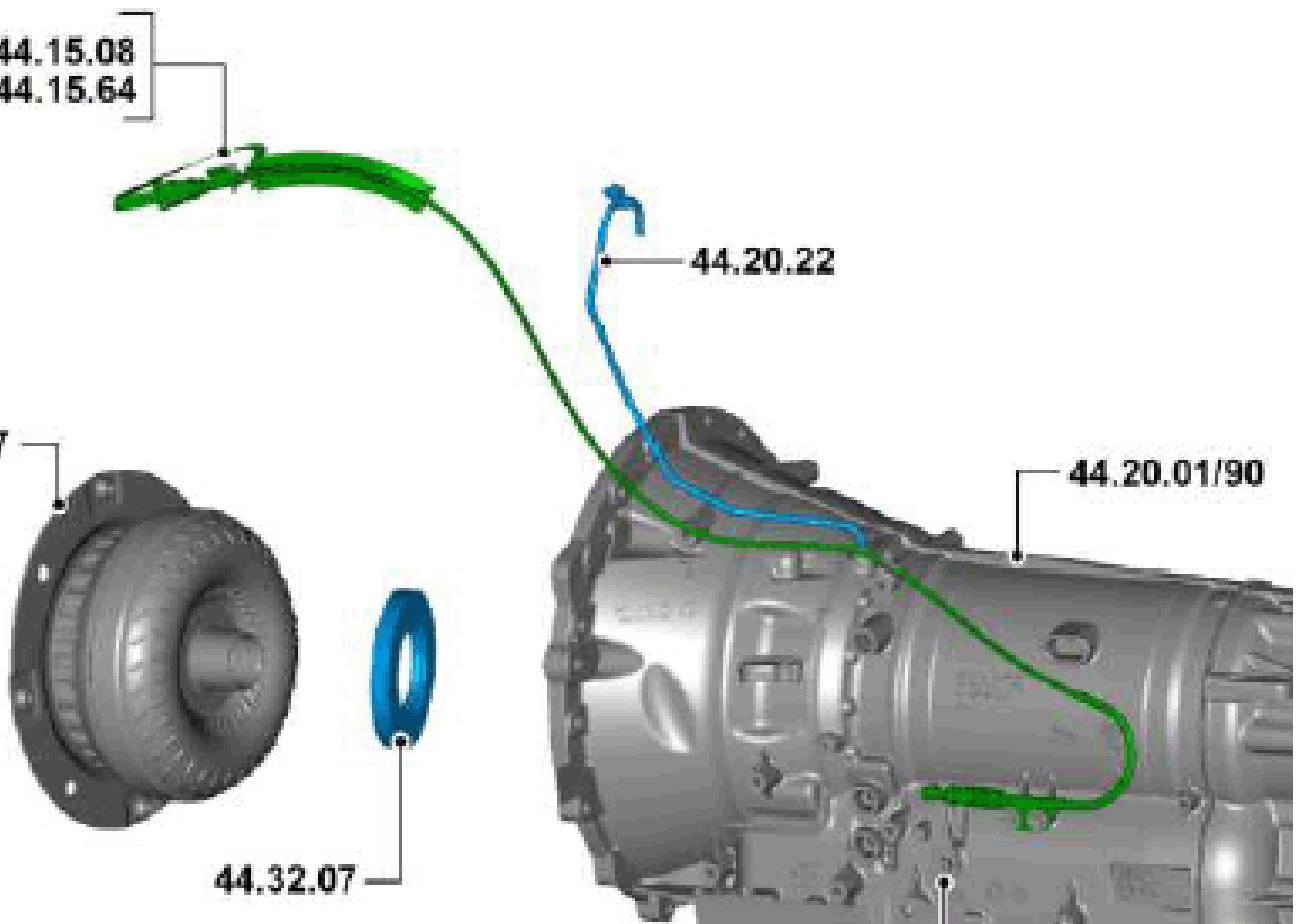
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44.15.64

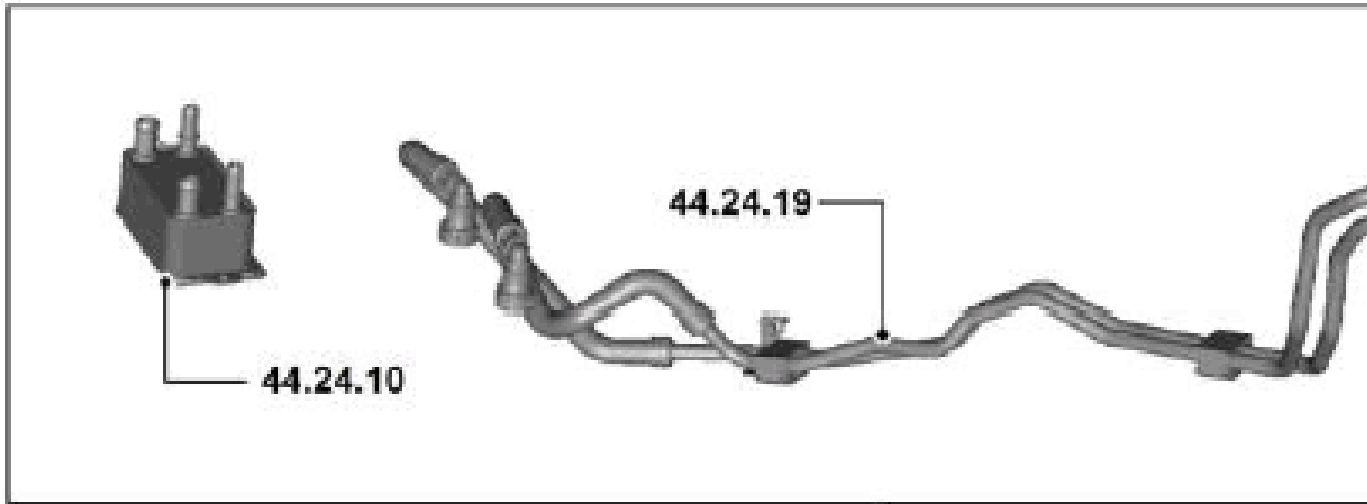
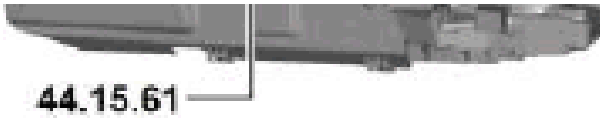
44.17.07

44.32.07

44.20.22

44.20.01/90





Special Tool(S)

100-012  
Slide Hammer



**E54135**

**JLR-308-932**  
Remover, Oil Seal



**E15 8798**

**JLR-308-936**  
Installer, Input Shaft Seal



E176623

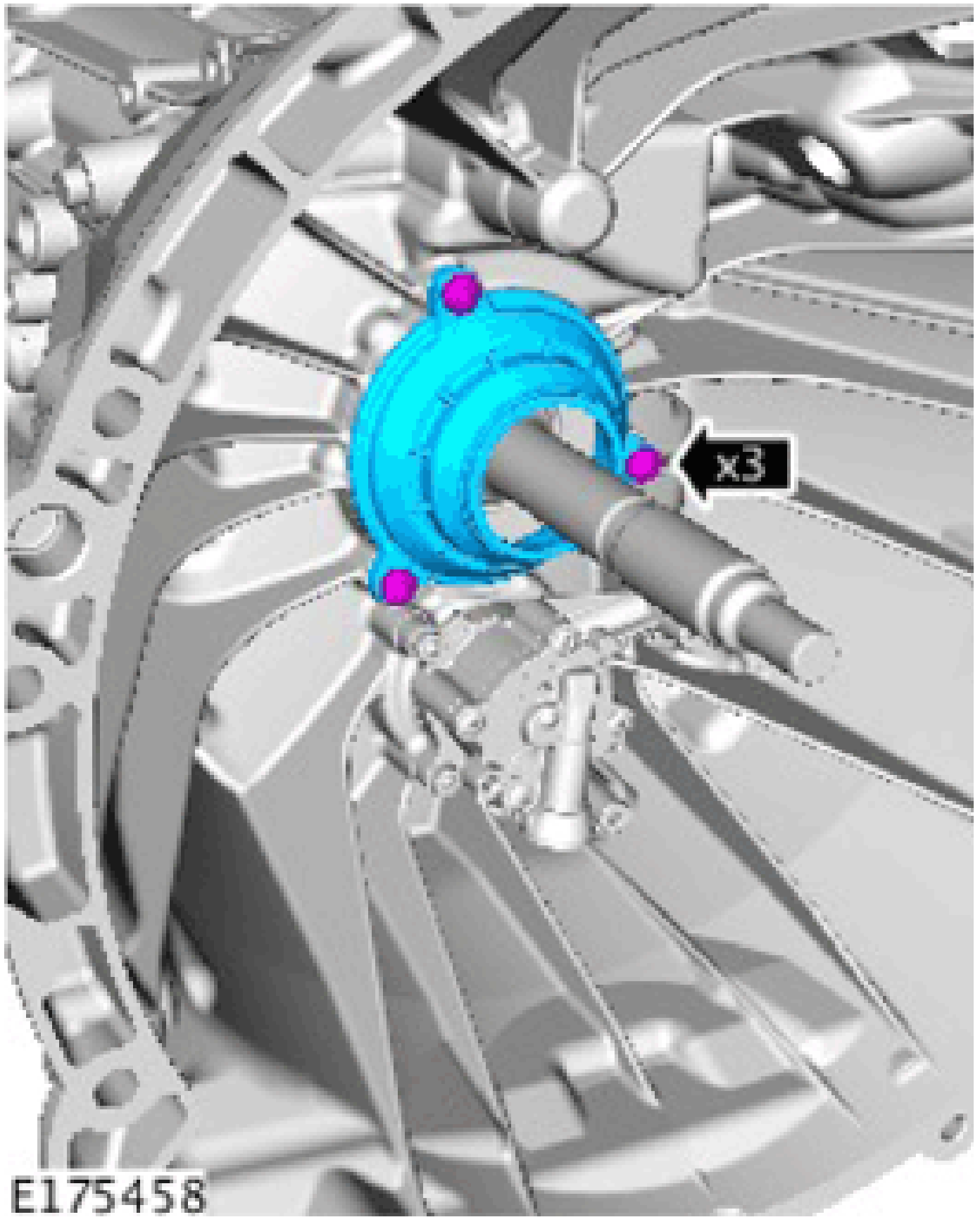
**Removal**

**WARNING:** Be prepared to collect escaping fluids.

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

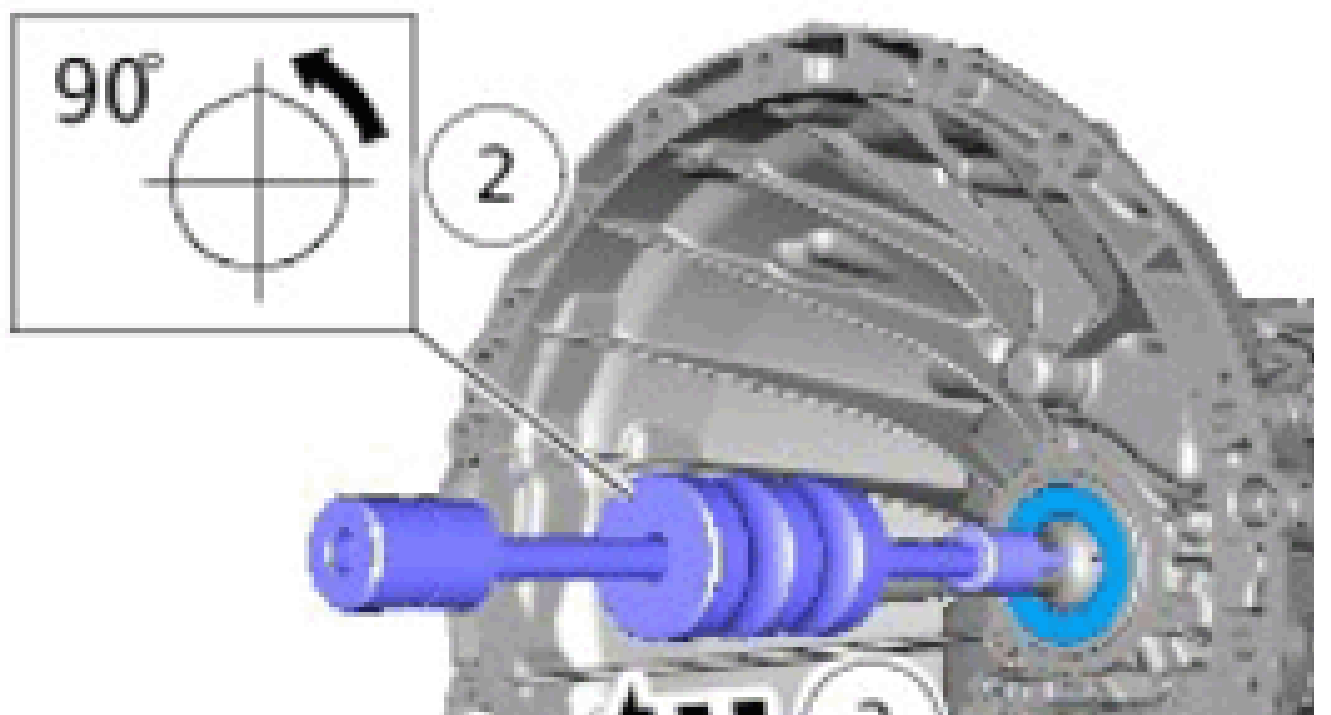
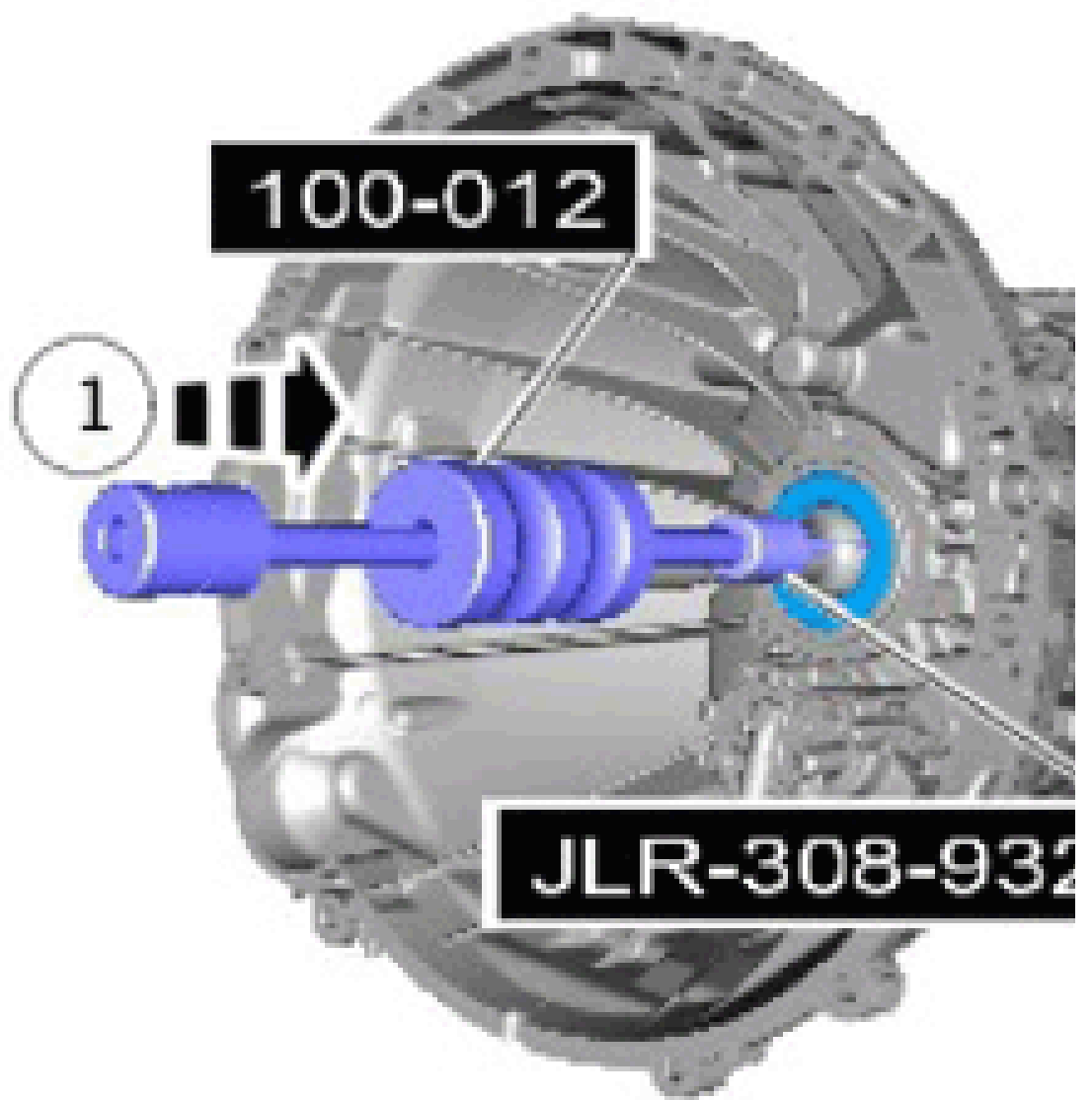
1. Refer to: [Clutch Slave Cylinder](#) (Removal and Installation).

2.

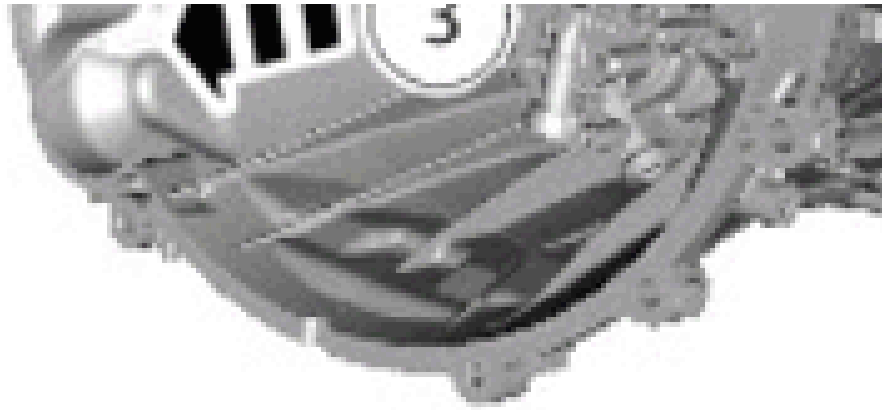


E175458

3. CAUTION:
- Take extra care when removing the component, prevent damage to the mating faces.
  - Discard the seal.







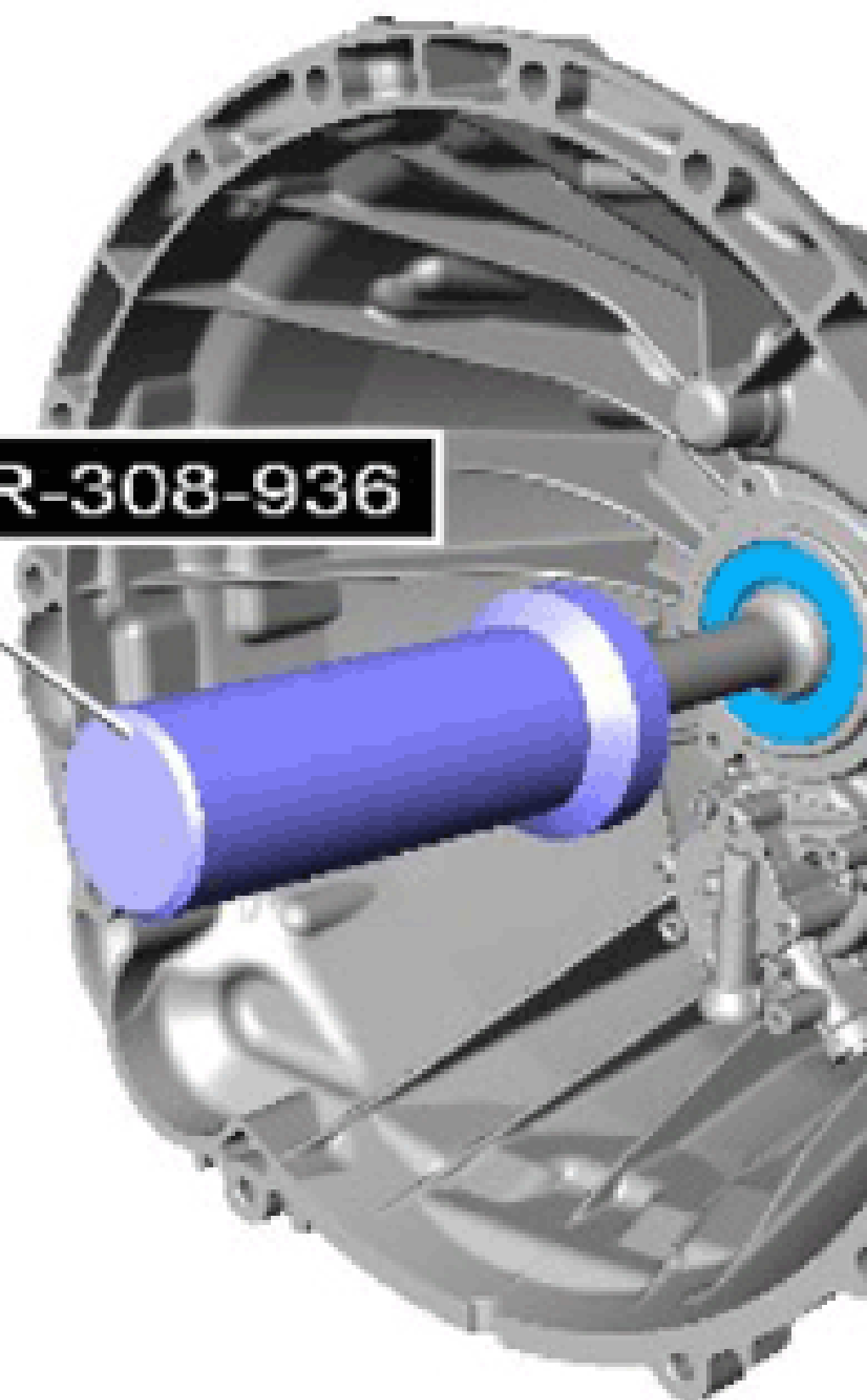
**E175459**

- *Special Tool(s):* 100-012, JLR-308-932

**Installation**

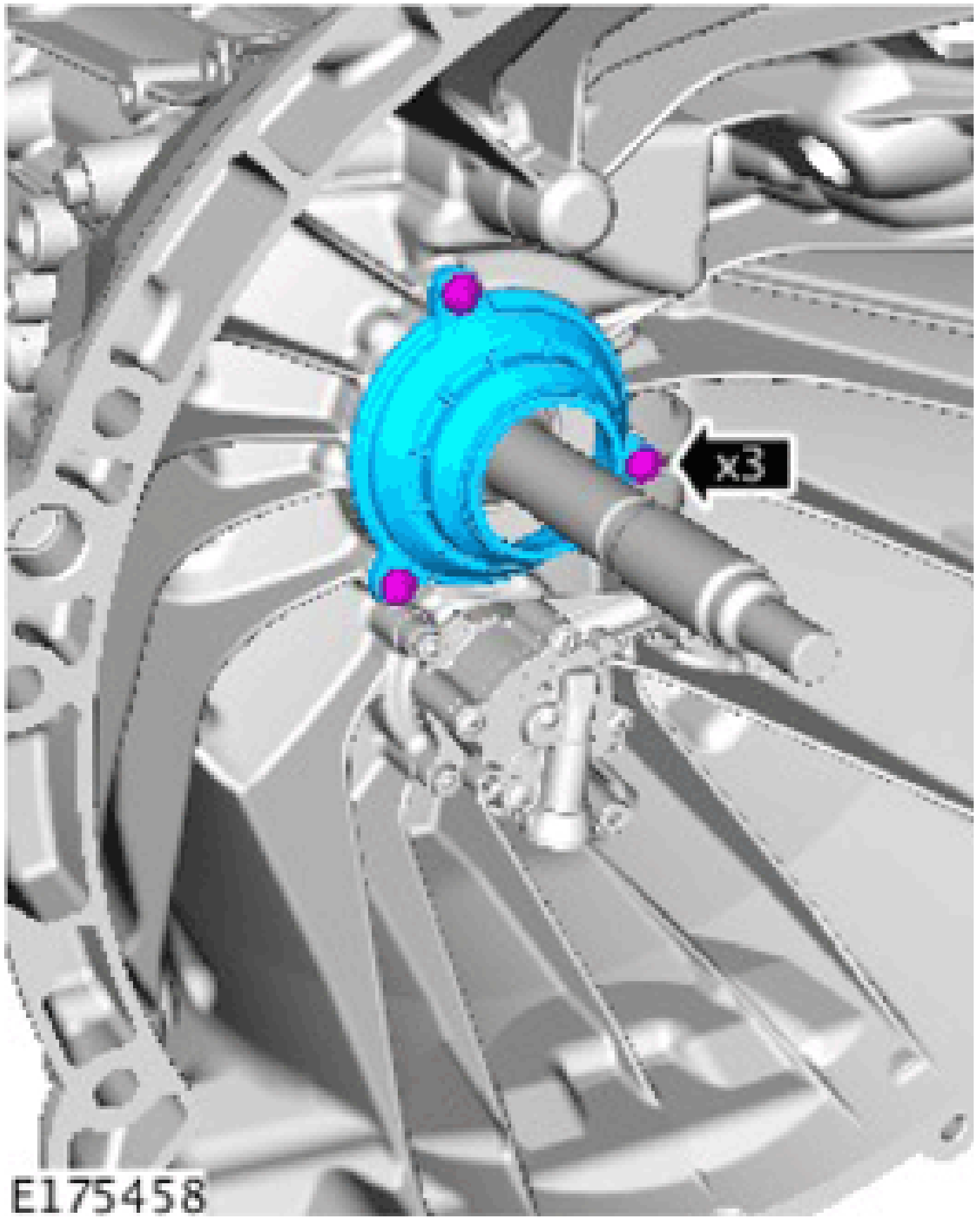
1. **CAUTION:**
  - Make sure that the mating faces are clean and free of foreign material.
  - The oil seal must be installed dry.
  - Install a new seal.

**JLR-308-936**



**E175460**

*Special Tool(s):* JLR-308-936

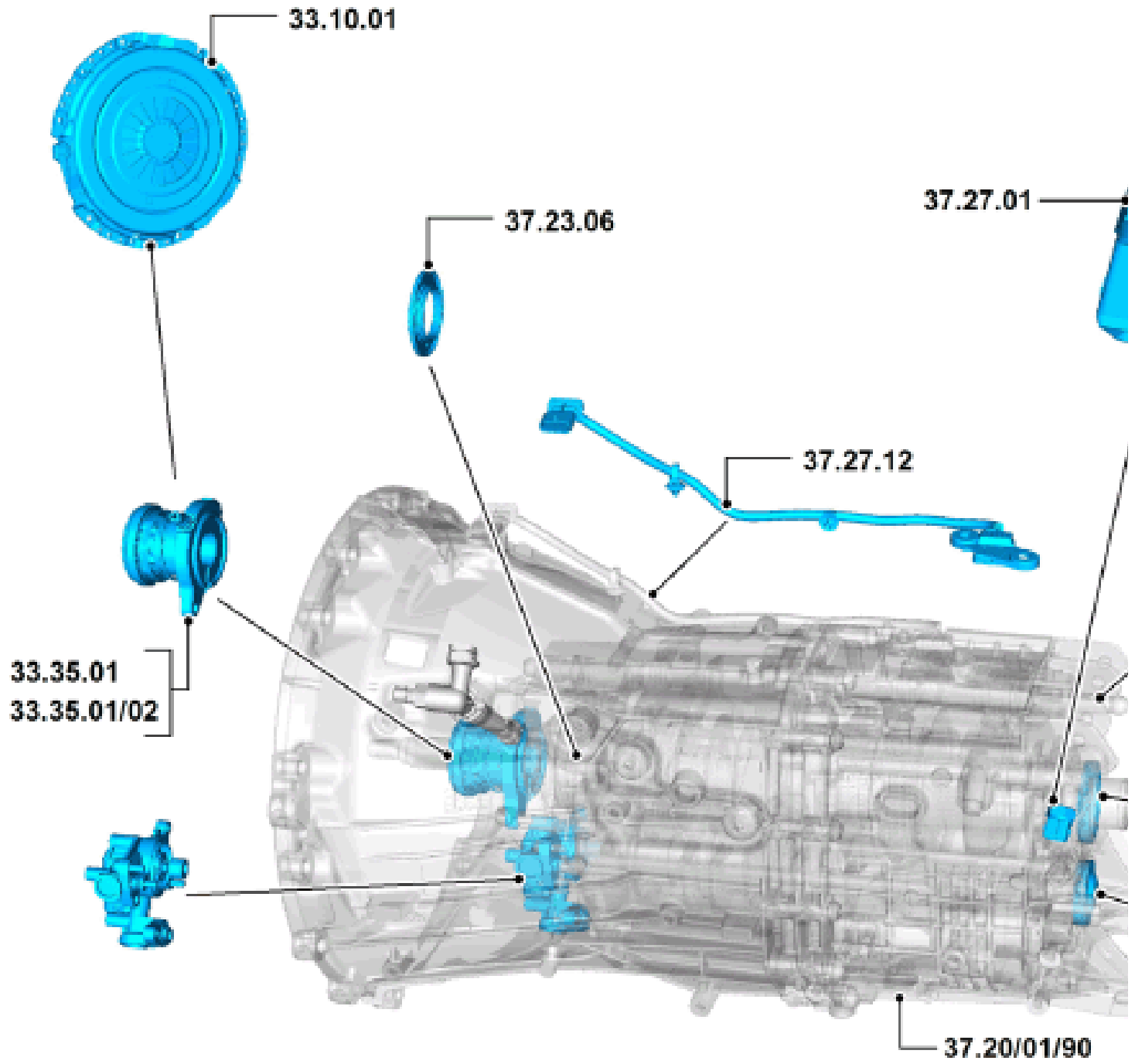


E175458

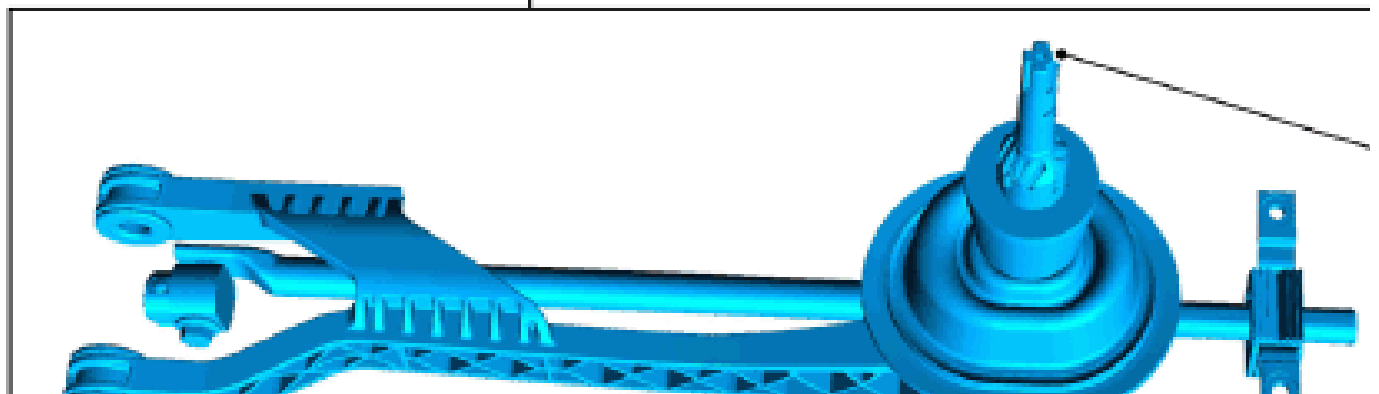
*Torque Specification: 8 Nm*

3. Refer to: [Clutch Slave Cylinder](#) (Installation).

INTERMEDIATE SHAFT SEAL (G1821623)



37.16.30





General Equipment

	EQUIPMENT NAME
Transmission jack	

Removal

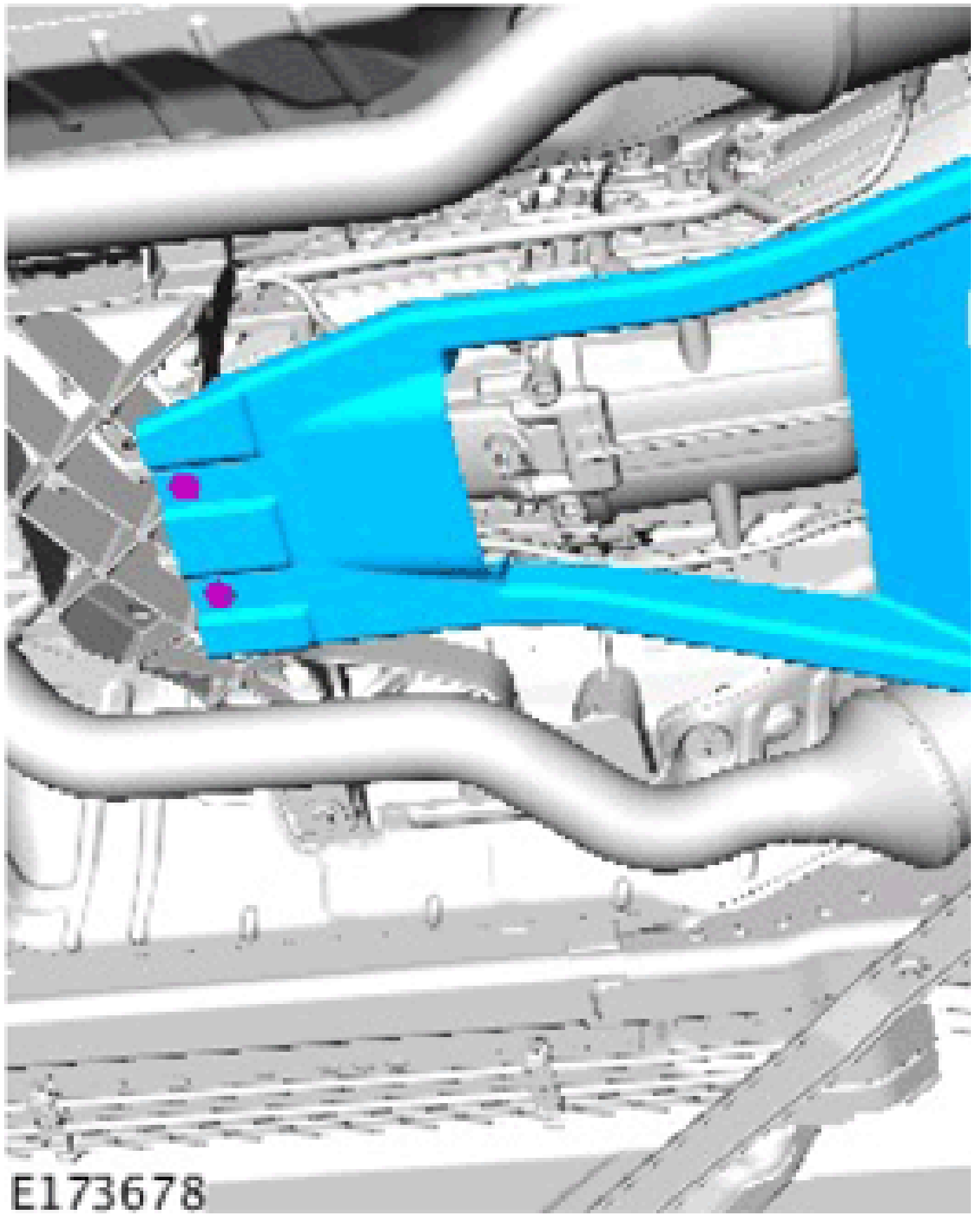
**NOTE:** Some variation in the illustrations may occur, but the essential information is always correct.

1. Refer to: [Battery Disconnect and Connect](#) (General Procedures).
2. **WARNING:** Make sure to support the vehicle with axle stands.

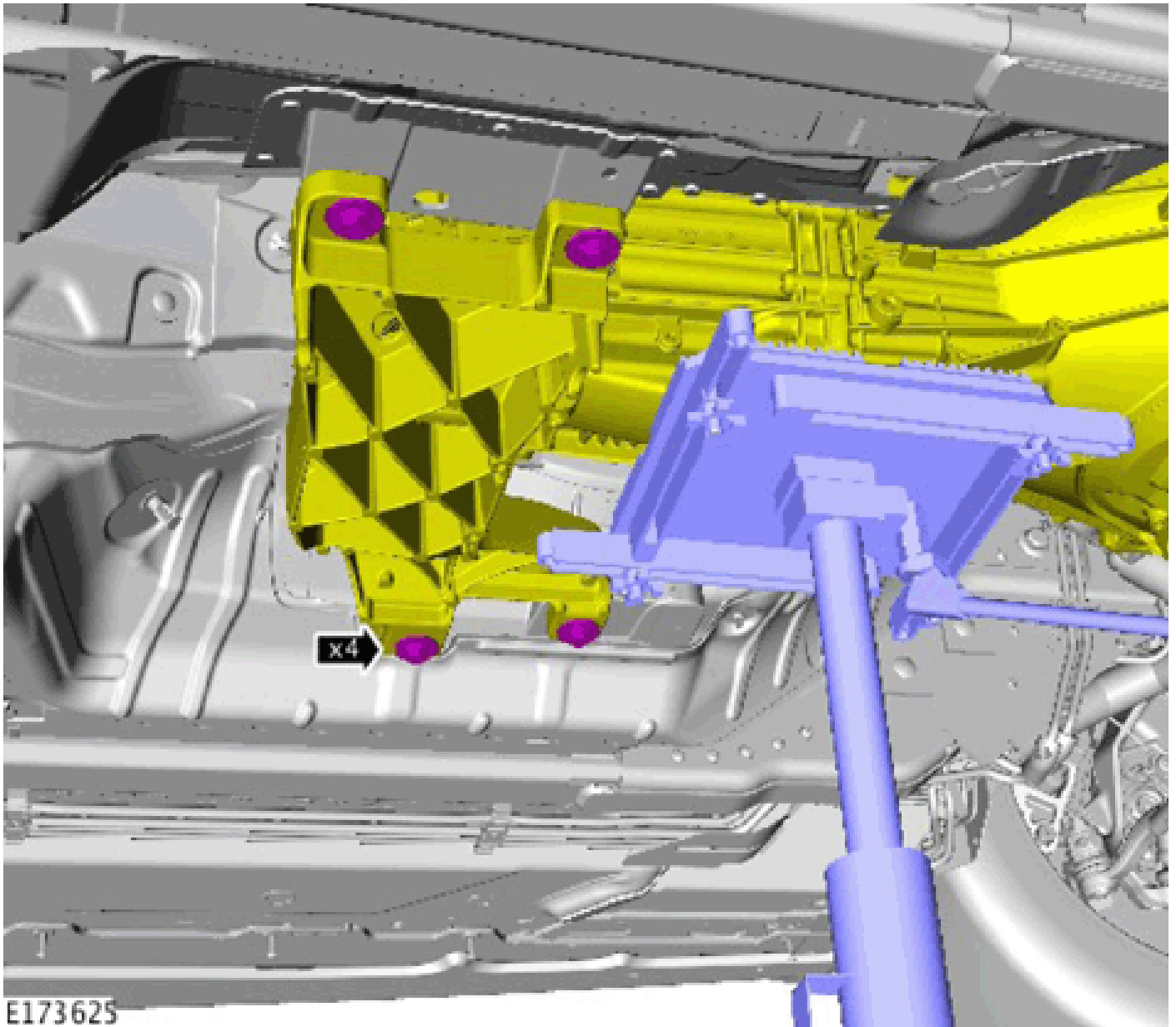
Raise and support the vehicle.

3.



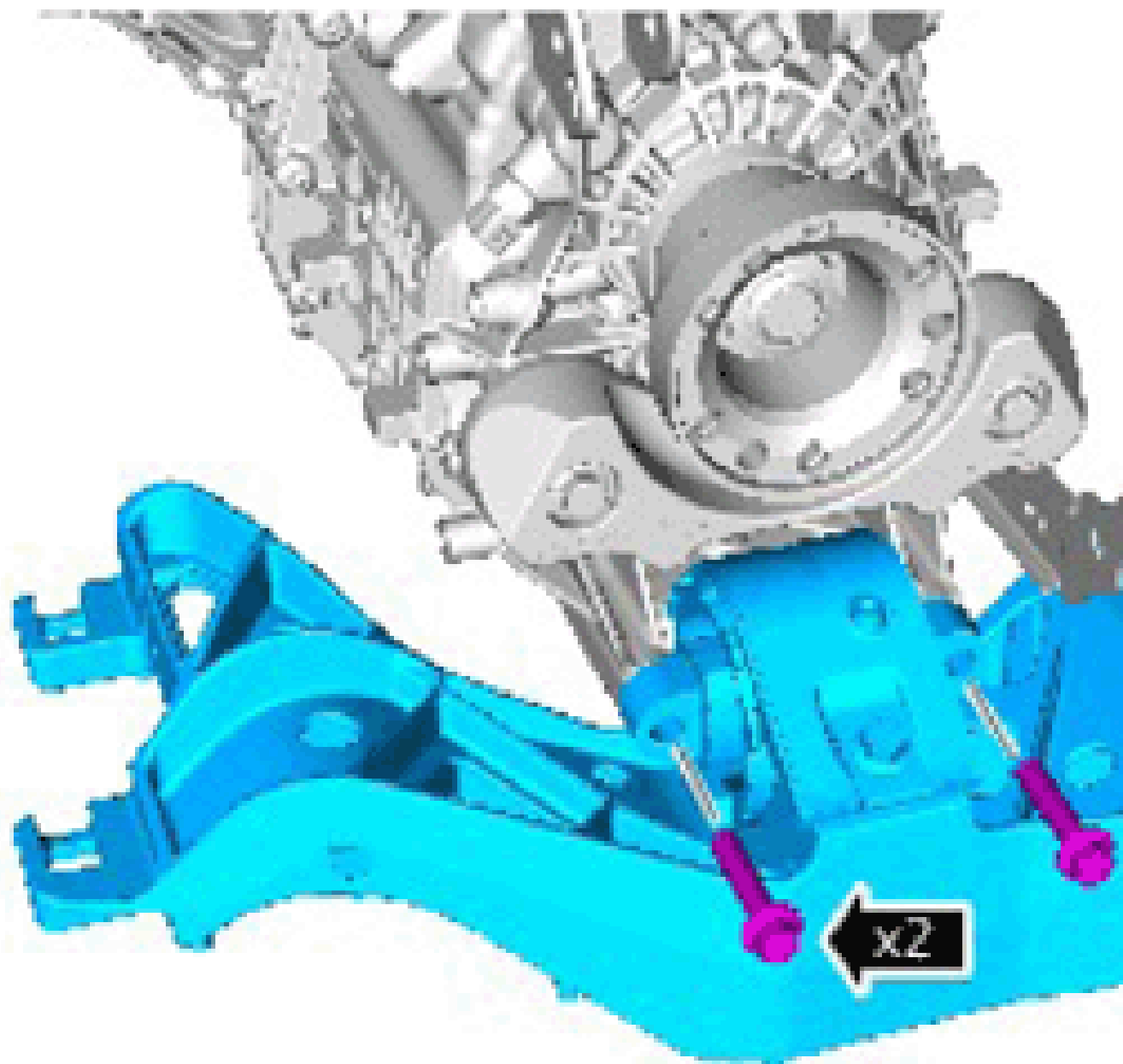


E173678



- *General Equipment:* Transmission jack
- Support the transmission.

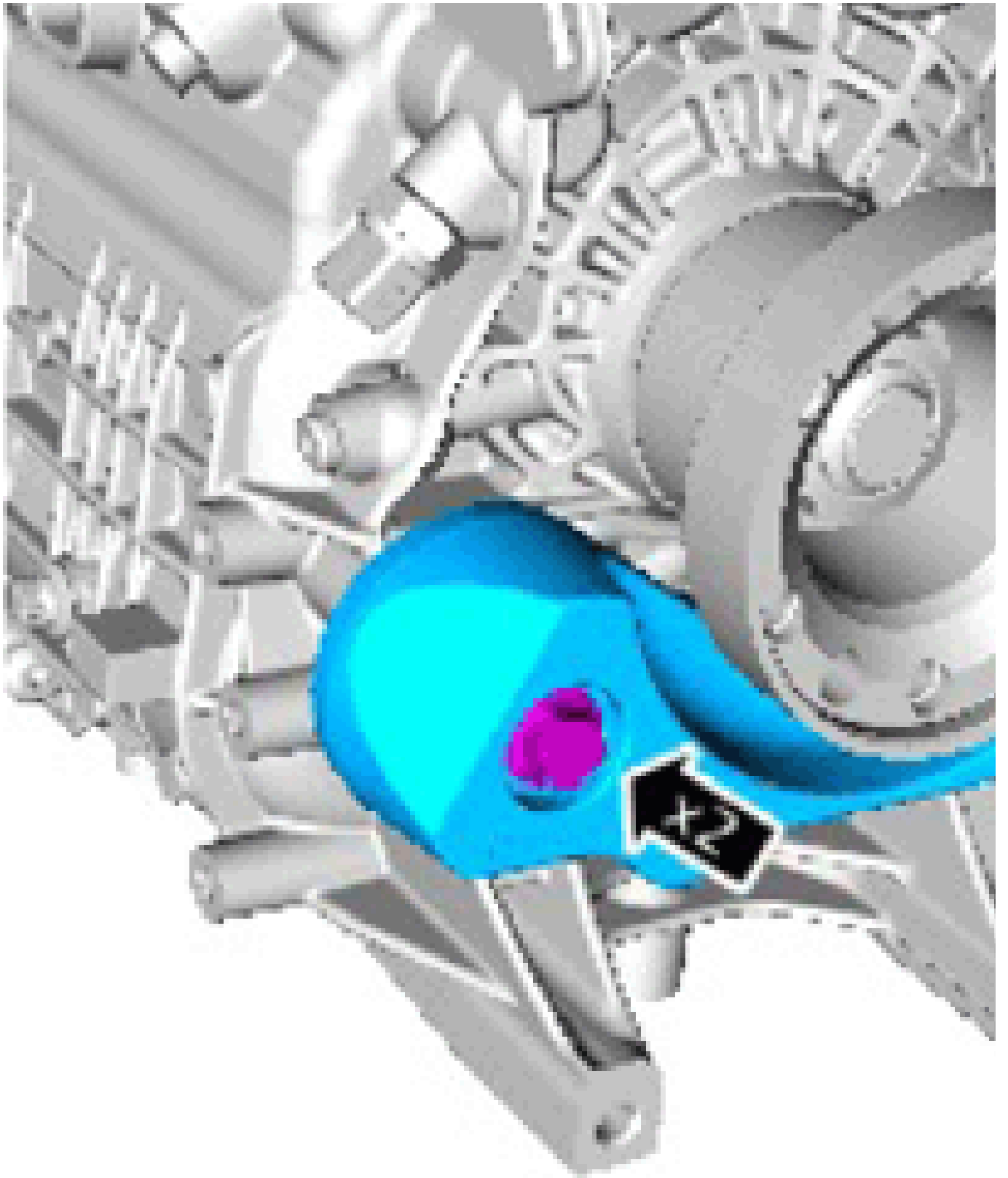
5.



E173638



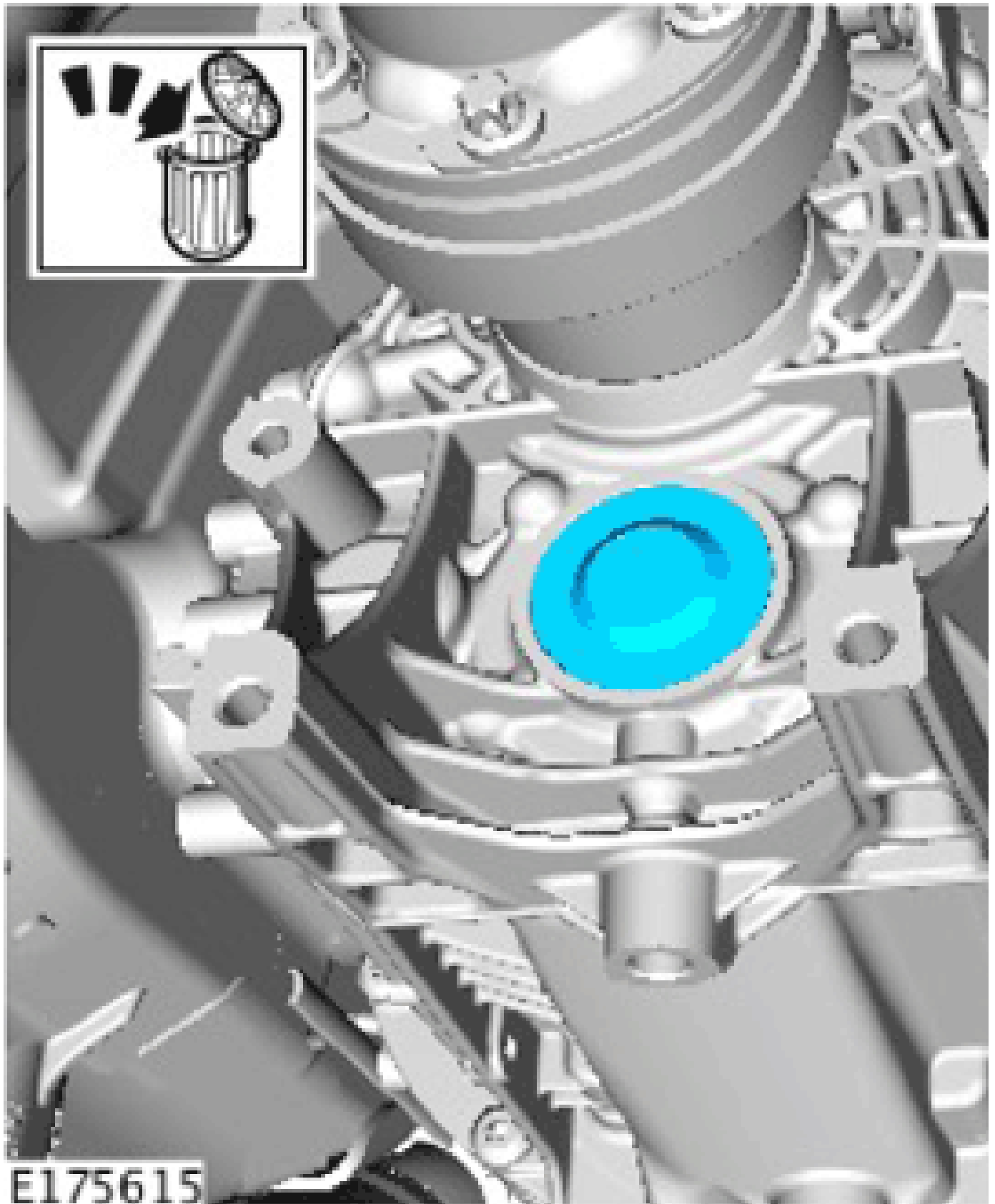




E173641

7. **CAUTION:** Take extra care when removing the component, prevent damage to the mating faces.

**NOTE:** Using a suitable tool, remove the oil seal.

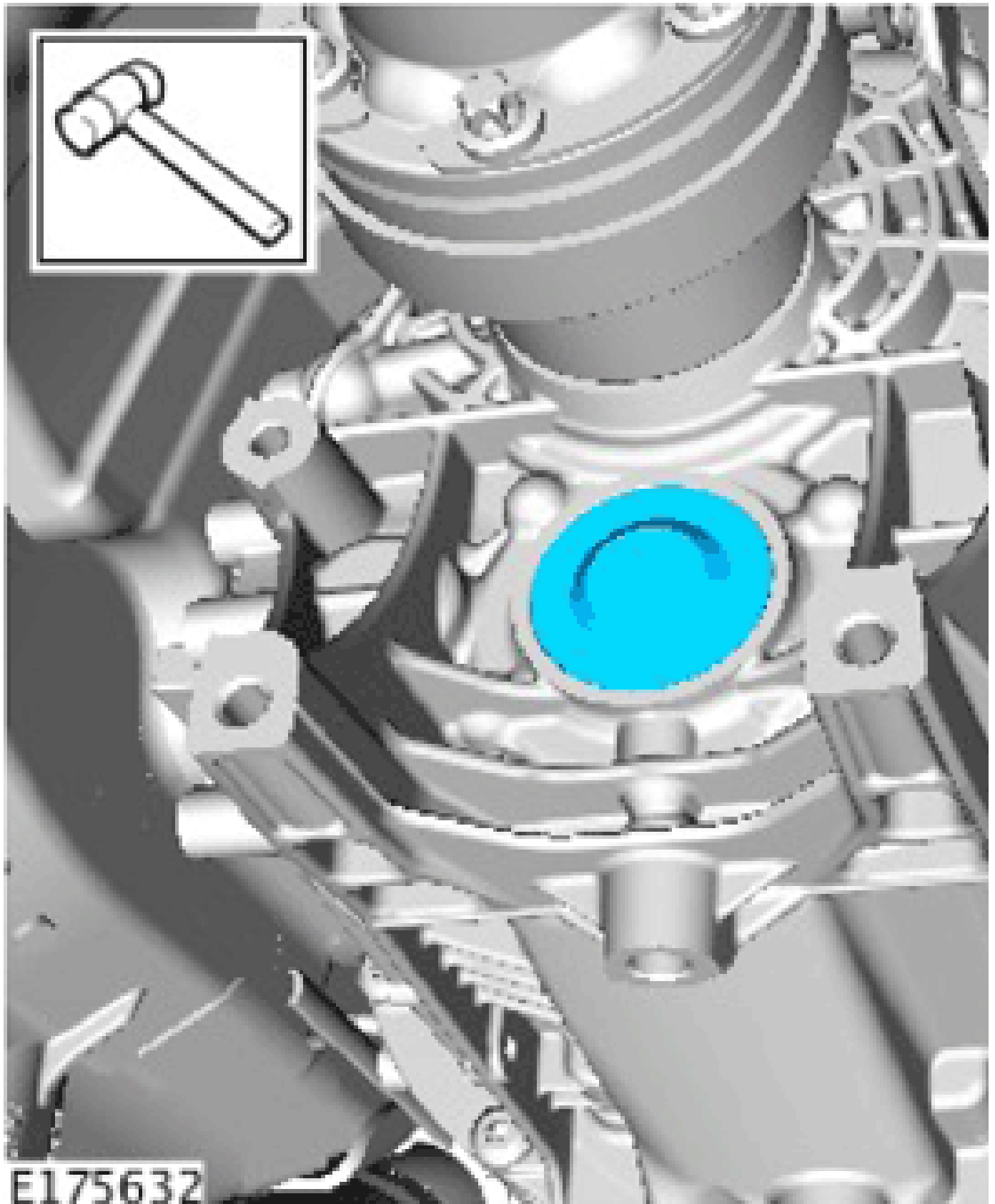


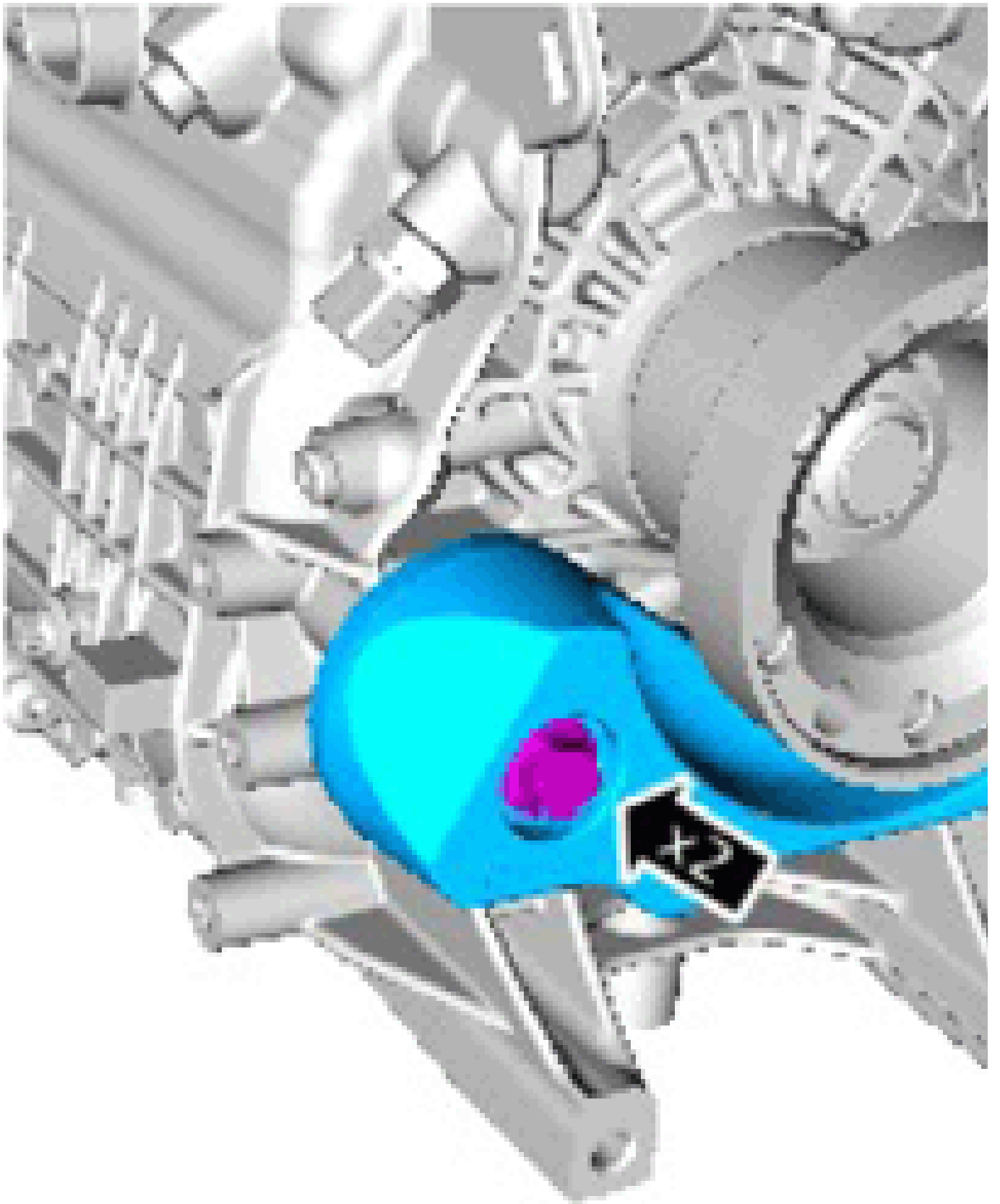
#### Installation

1. **CAUTION:**
  - Take extra care not to damage the seal when installing the component.
  - Care must be taken to avoid damage to the seal register and running surface.

- Make sure that the mating faces are clean and free of foreign material.

**NOTE:** Using a soft faced hammer, install the seal.

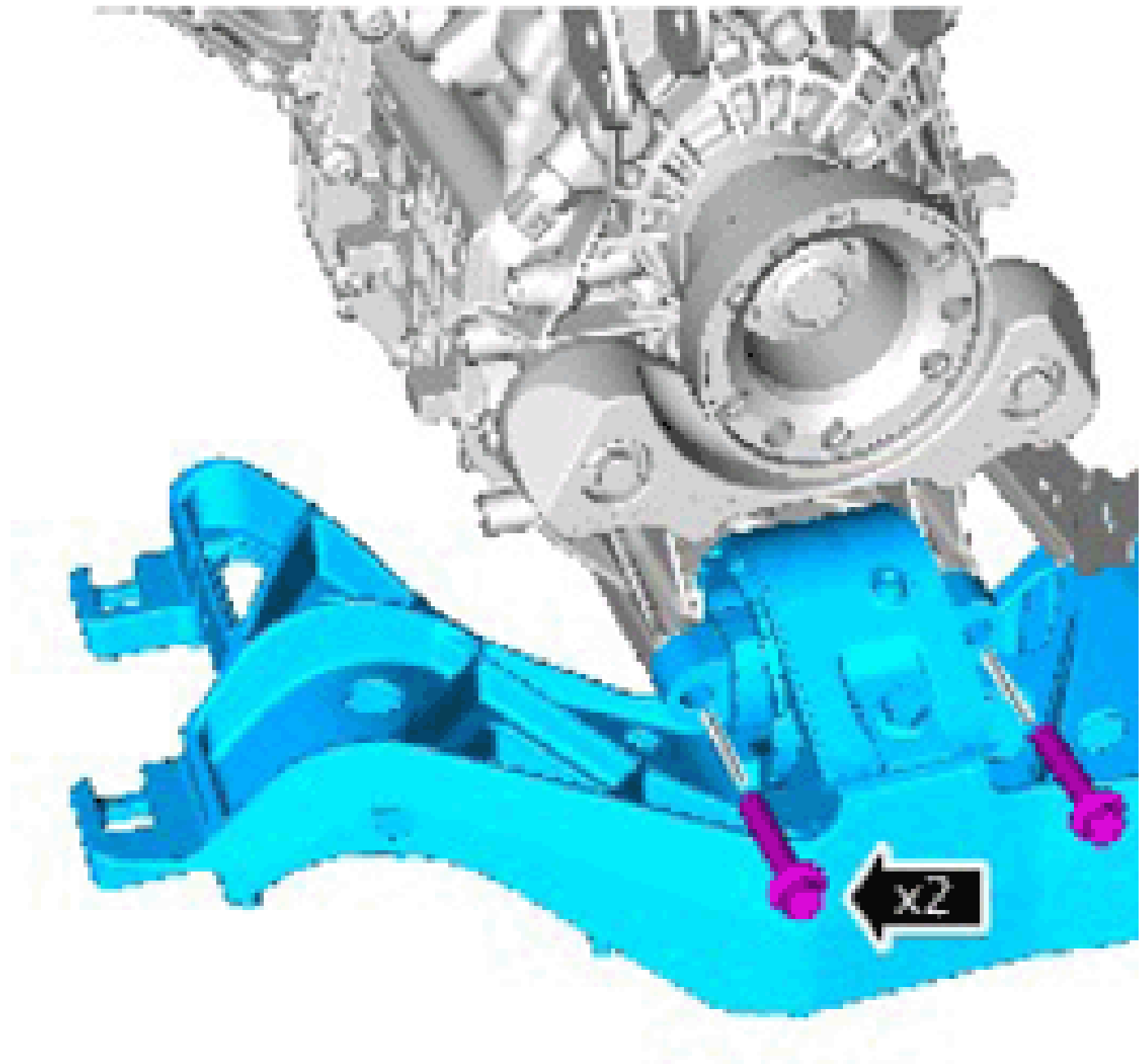




E173641

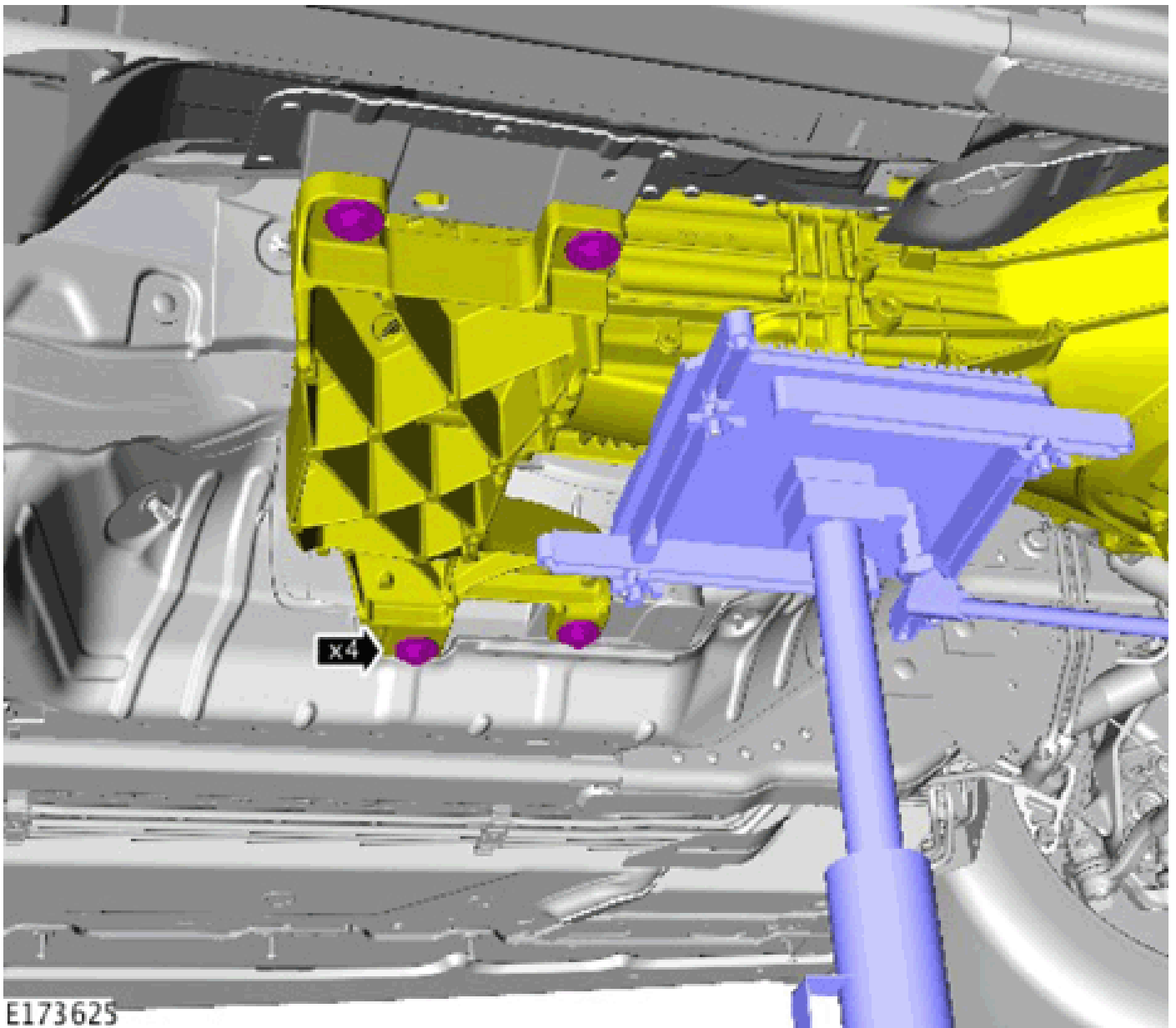
*Torque Specification: 48 Nm*

3.



**E173638**

*Torque Specification: 48 Nm*

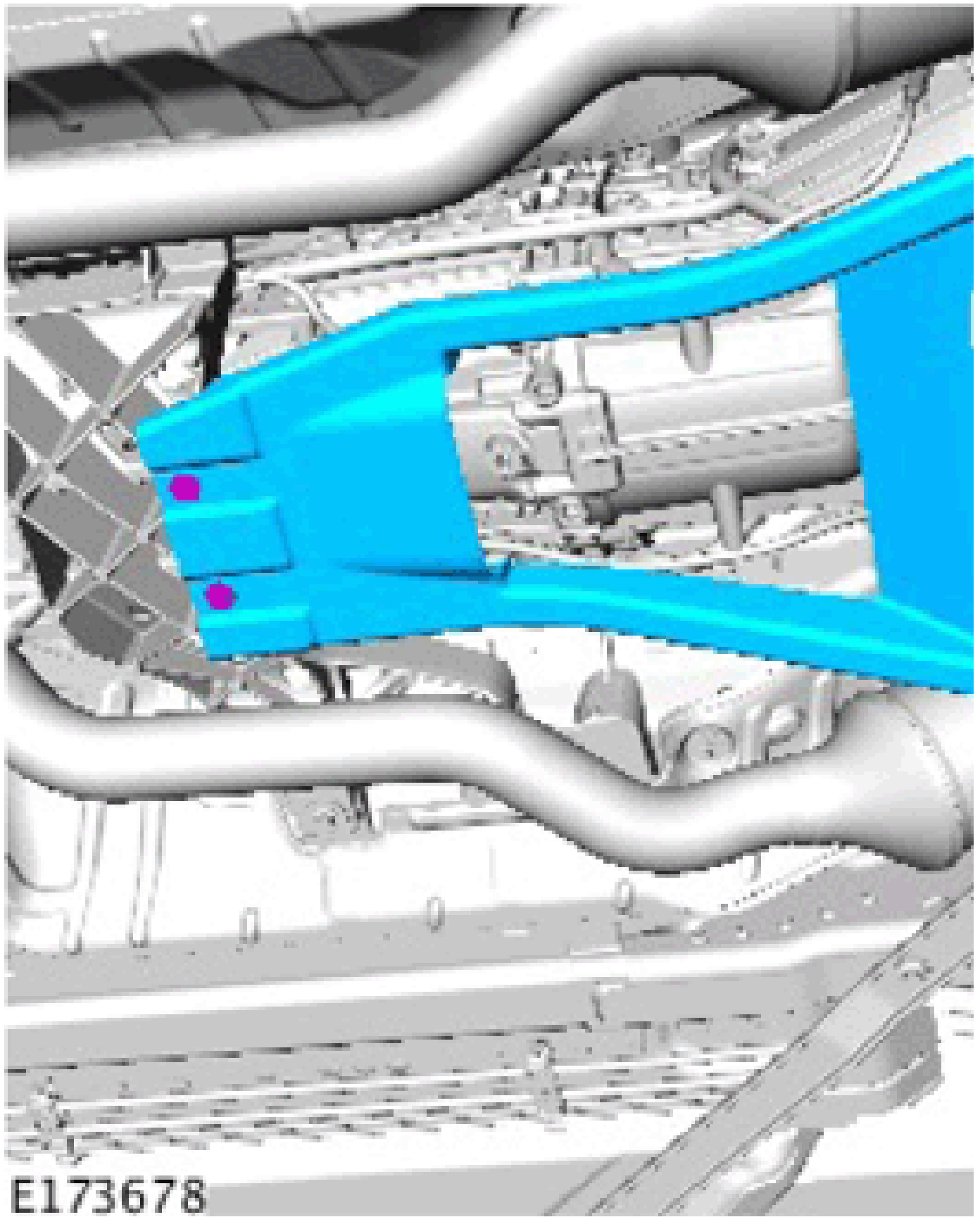


*Torque Specification: 45 Nm*

5. Remove the transmission jack.

6.





7. Lower the vehicle.


8. Refer to: [Battery Disconnect and Connect](#) (General Procedures).

*Torque Specification: 9 Nm*

OUTPUT SHAFT SEAL (G1821622)

37.23.01	REAR OIL SEAL - RENEW	3000 CC, AJ V6 (AJ126)	
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Special Tool(S)

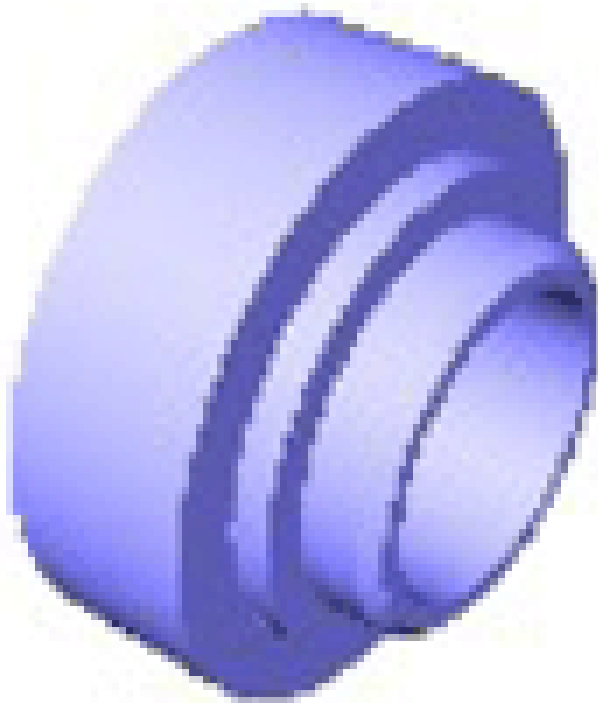
 <p>E54574</p>	<p><b>205-053</b> Retainer, Differential Pinion Flange</p>
--	--

	<p><b>307-520</b> Installer, Output Shaft Seal</p>
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E52536

**JLR-308-935**  
Installer, Output Shaft Seal



E176622

General Equipment

EQUIPMENT NAME

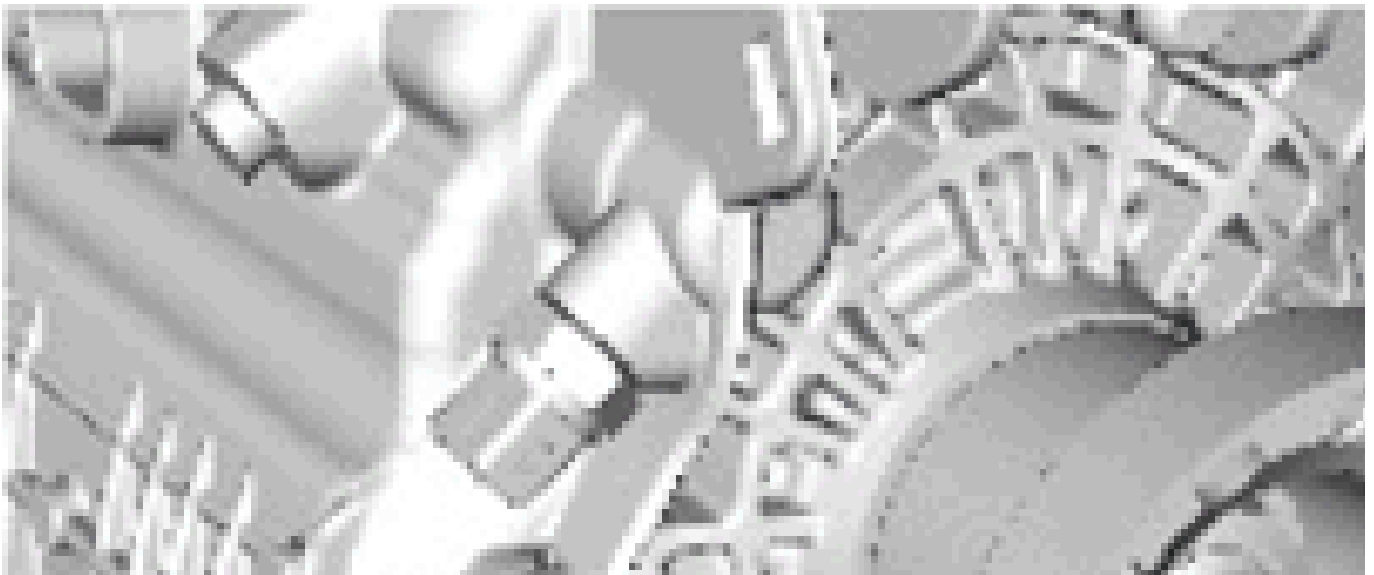
Puller

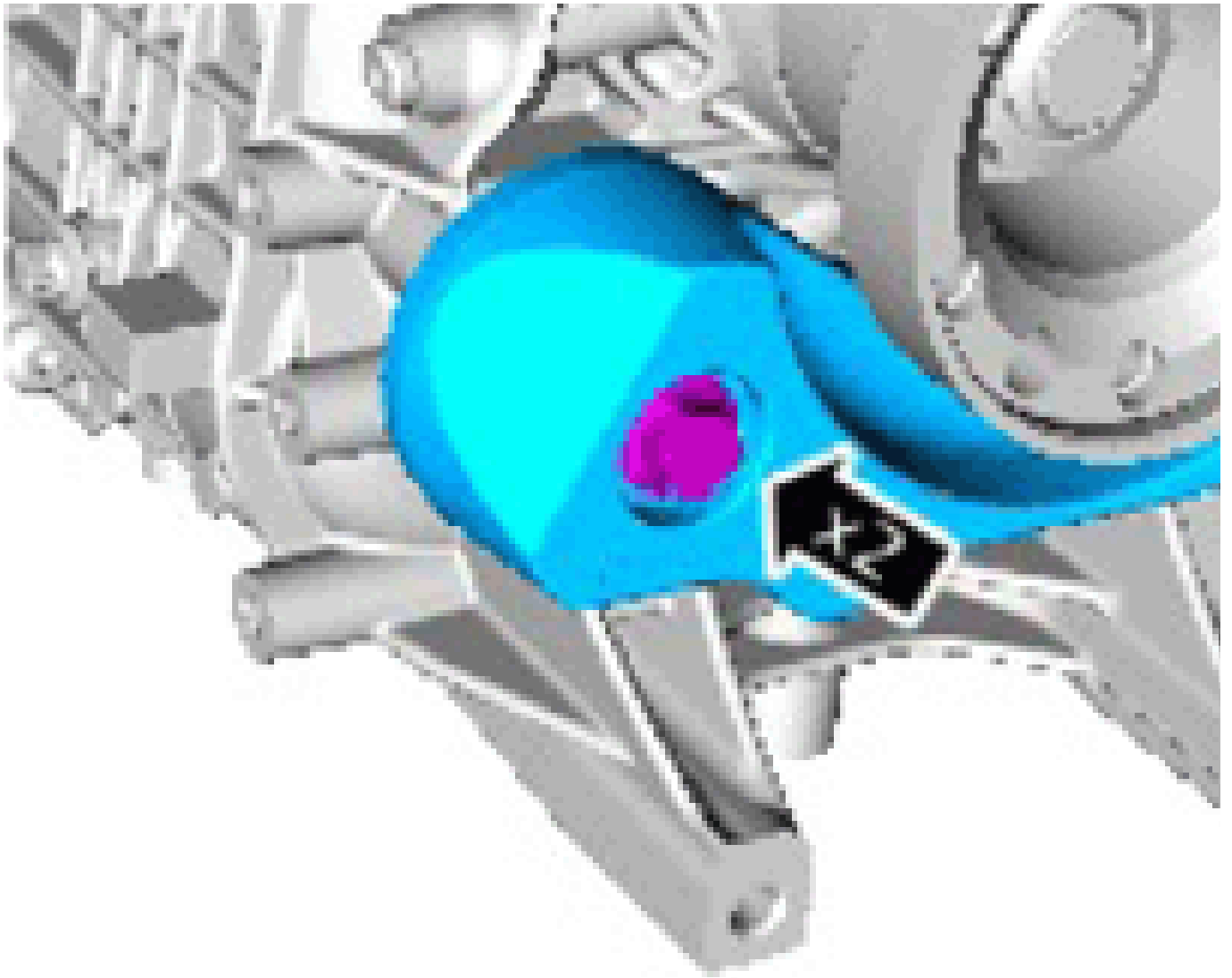
Removal

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

1. Refer to: [DRIVESHAFT - RWD](#) (Removal and Installation).

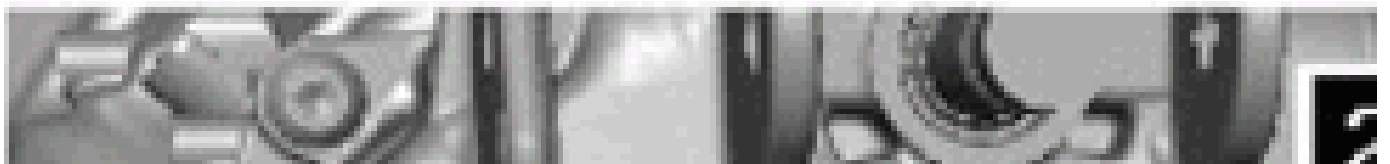
2.

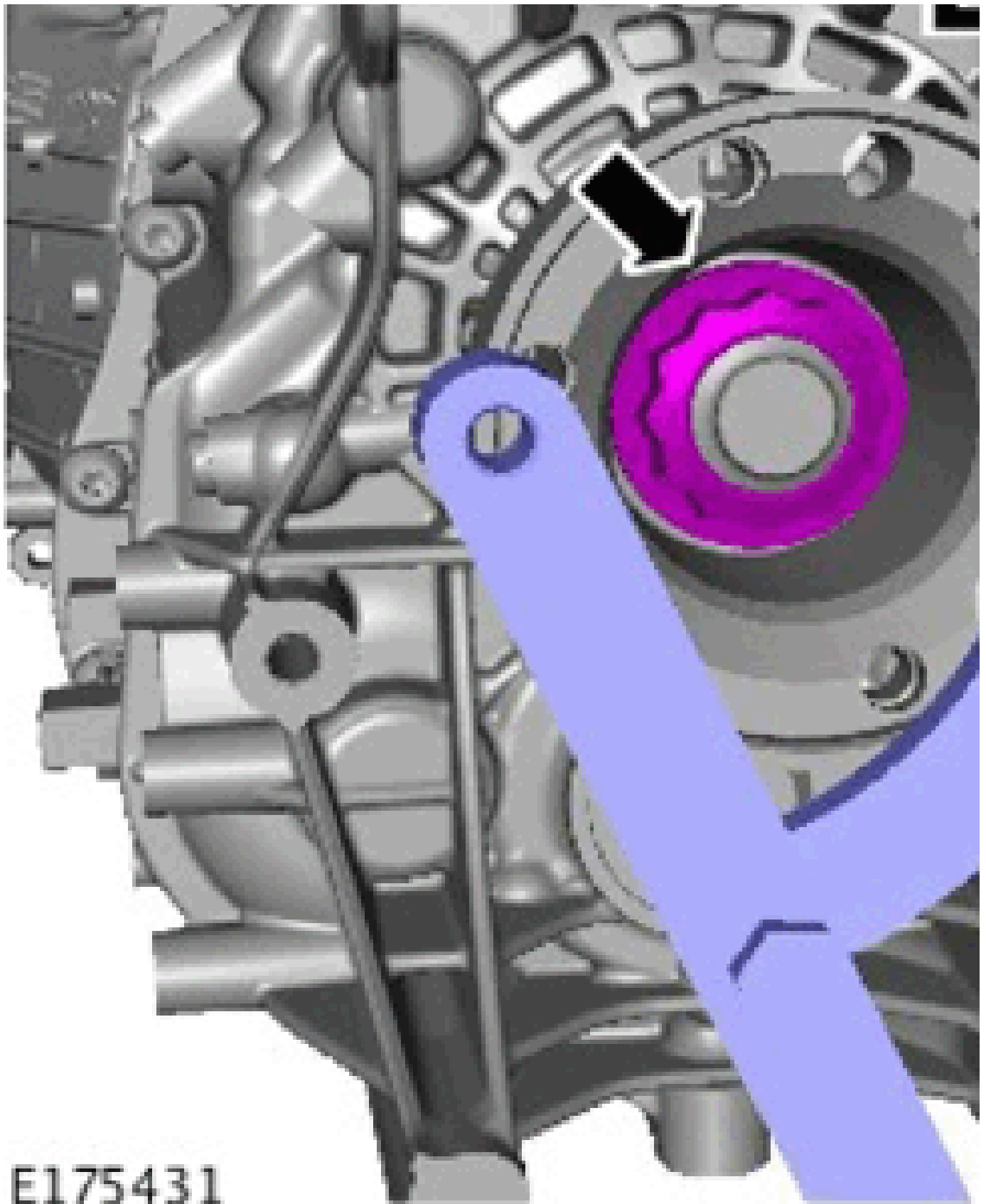




E173641

3.

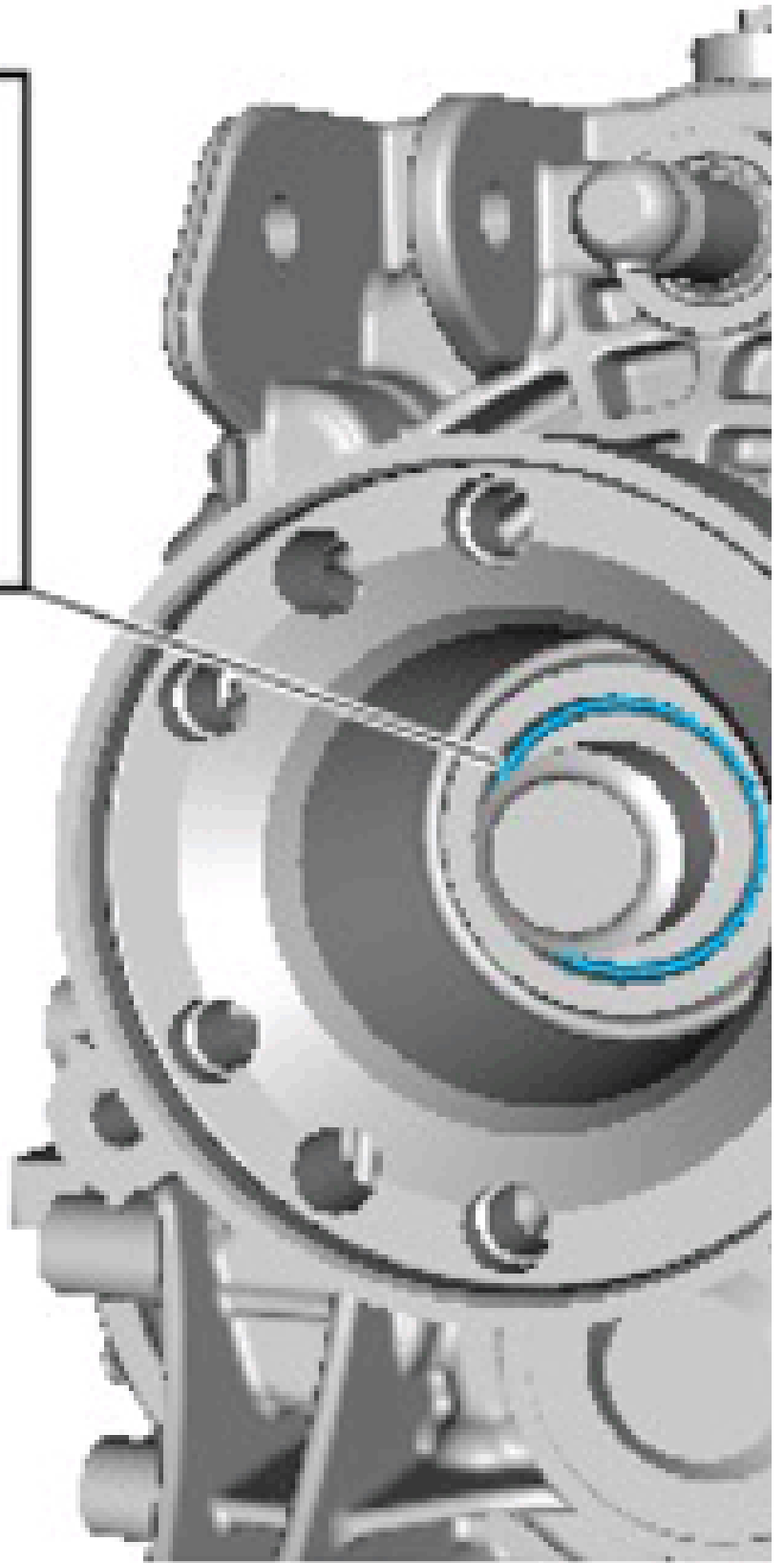
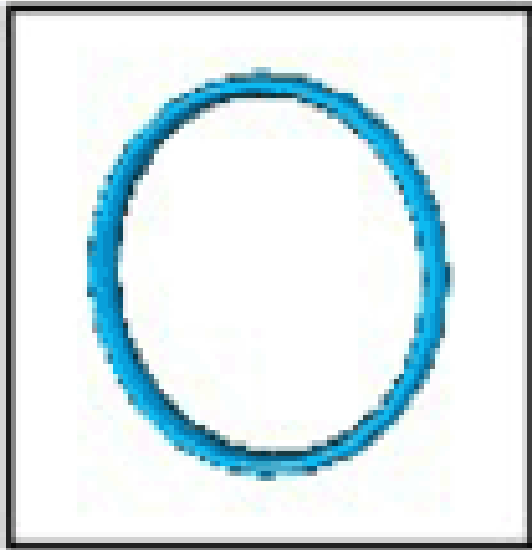




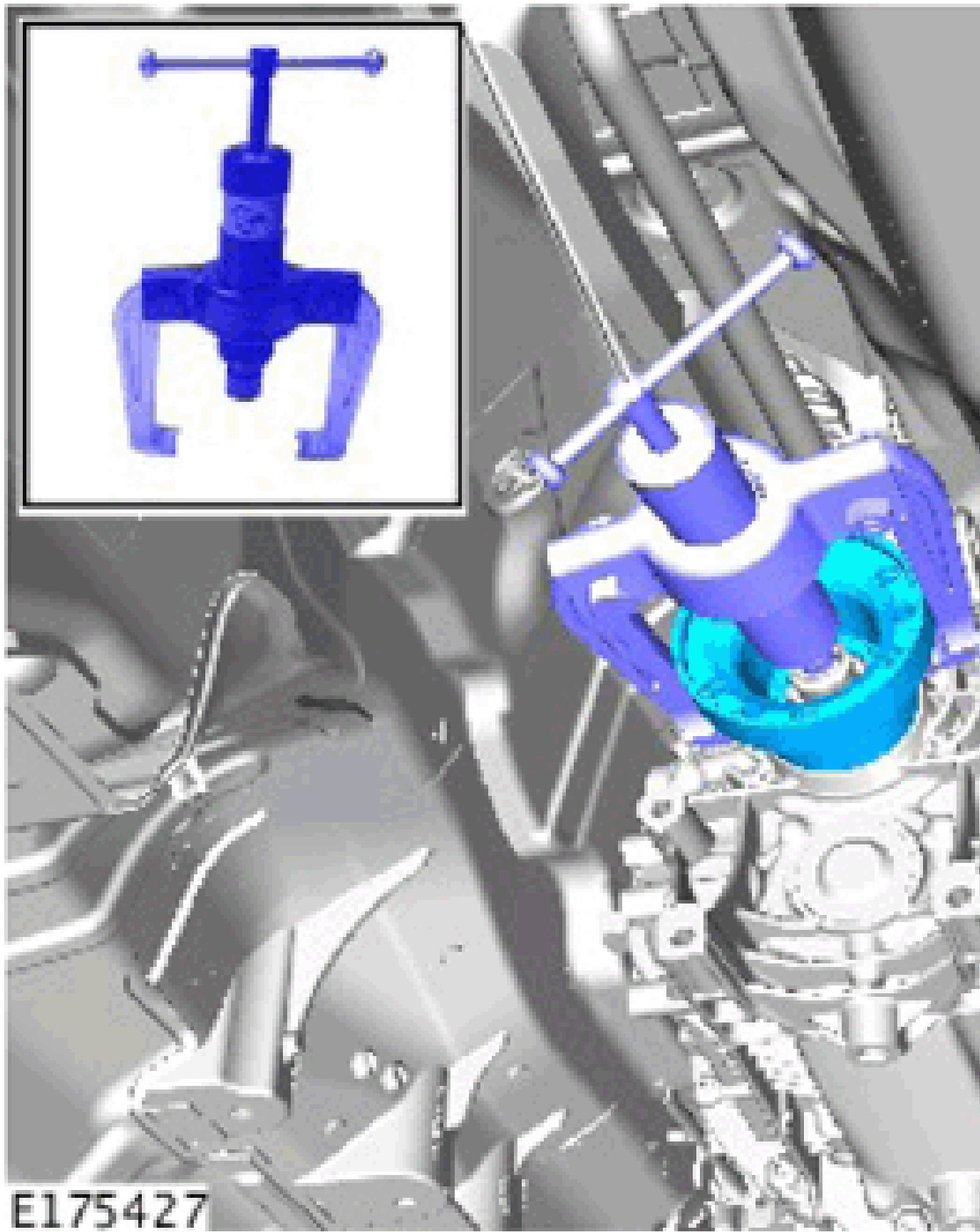
E175431

*Special Tool(s):* 205-053

4. **NOTE:** Note the orientation of the component prior to removal.



E175448



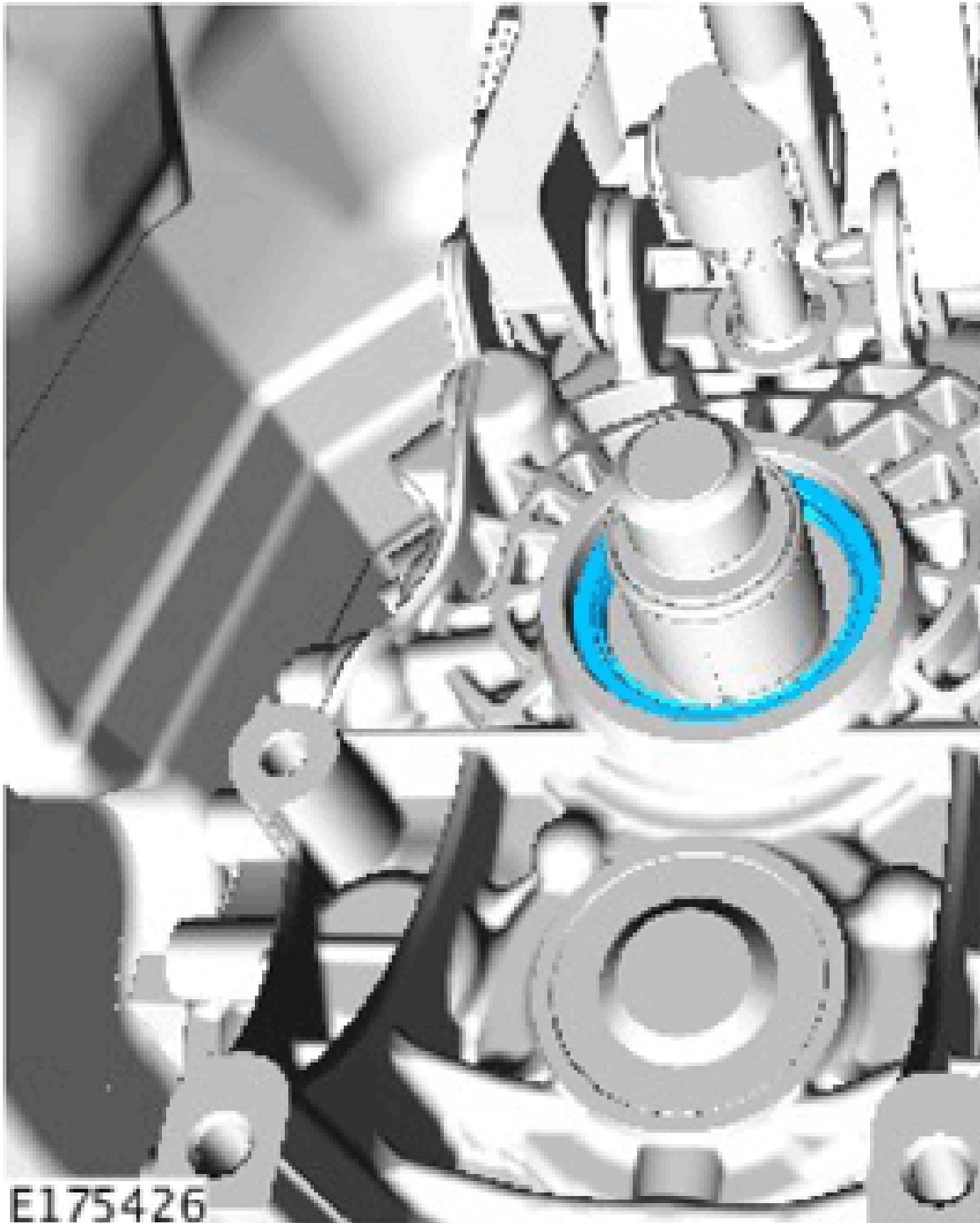
E175427

*General Equipment:* Puller

6. **CAUTION:** Discard the seal.



**NOTE:** Using a suitable tool, remove the oil seal.



1. CAUTION:

- Make sure that the mating faces are clean and free of foreign material.
- Install a new seal.



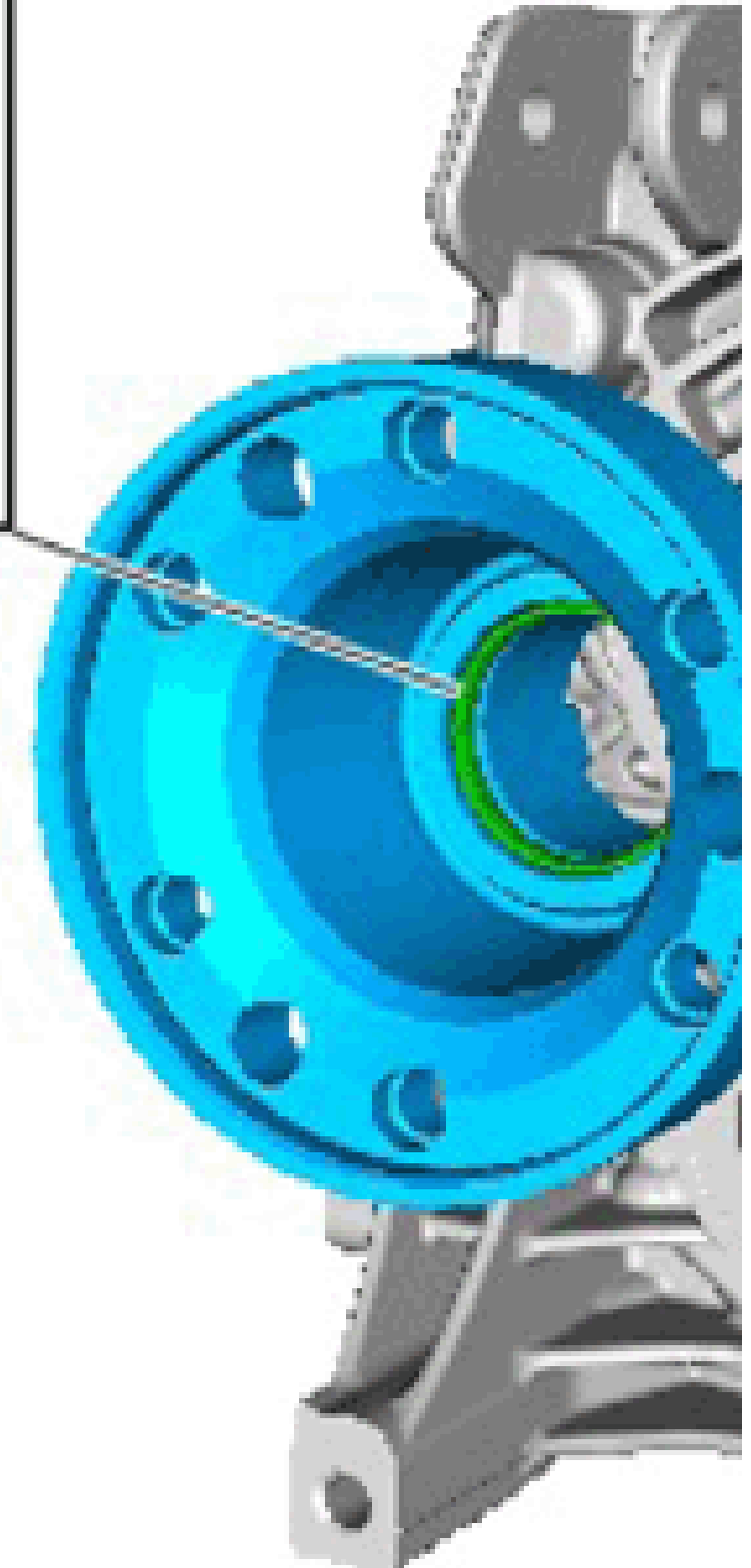
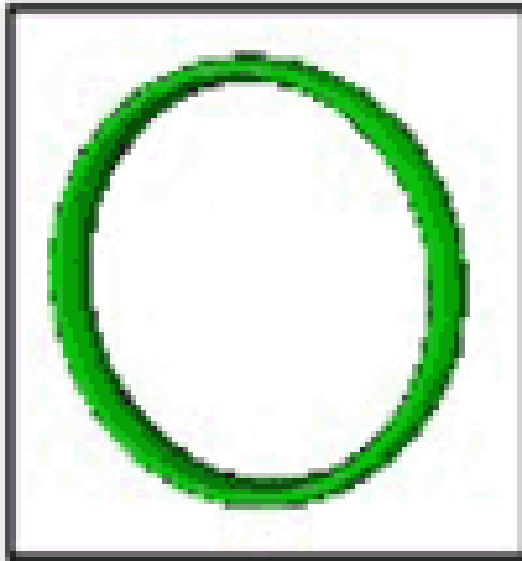
JLR-308-935

307-520

E175428

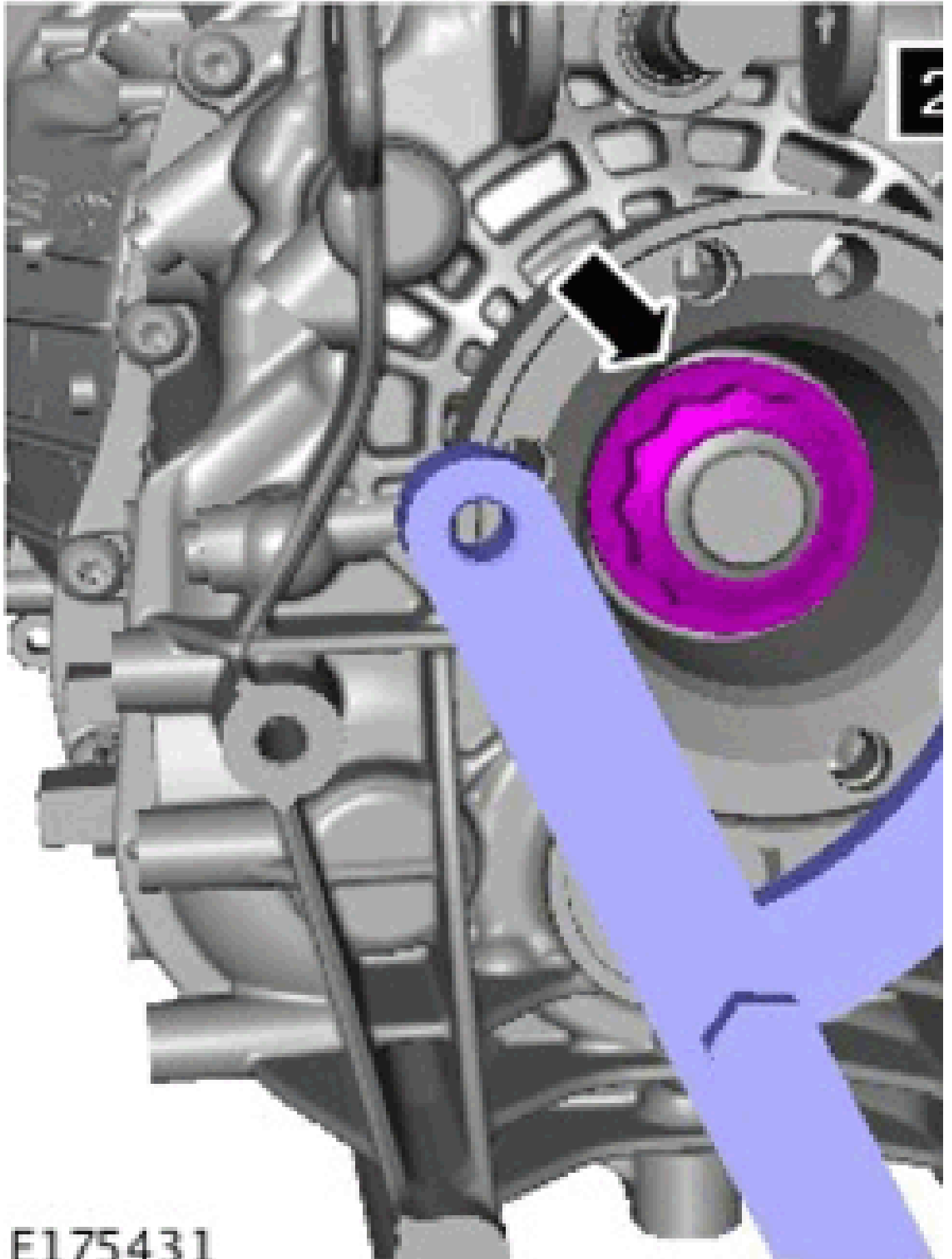
- *Special Tool(s)*: JLR-308-935, 307-520

2. **CAUTION:**
- Make sure that the seal is correctly located.
  - The O-ring seal is to be reused unless damaged.



E175432

3. **WARNING:** Make sure that a new nut is installed.

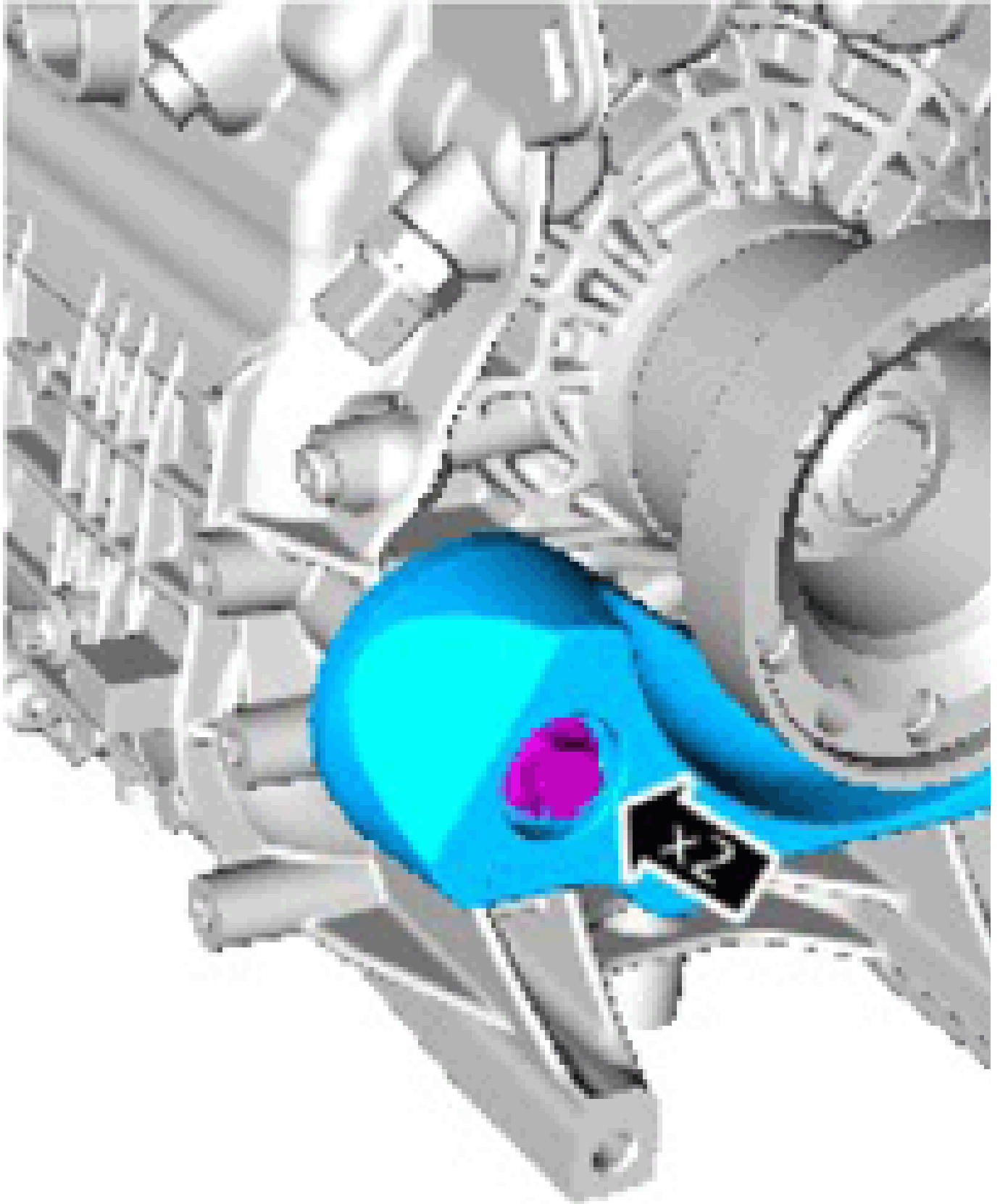


E175431

Special Tool(s): 205-053

Torque Specification: 60 Nm

4.



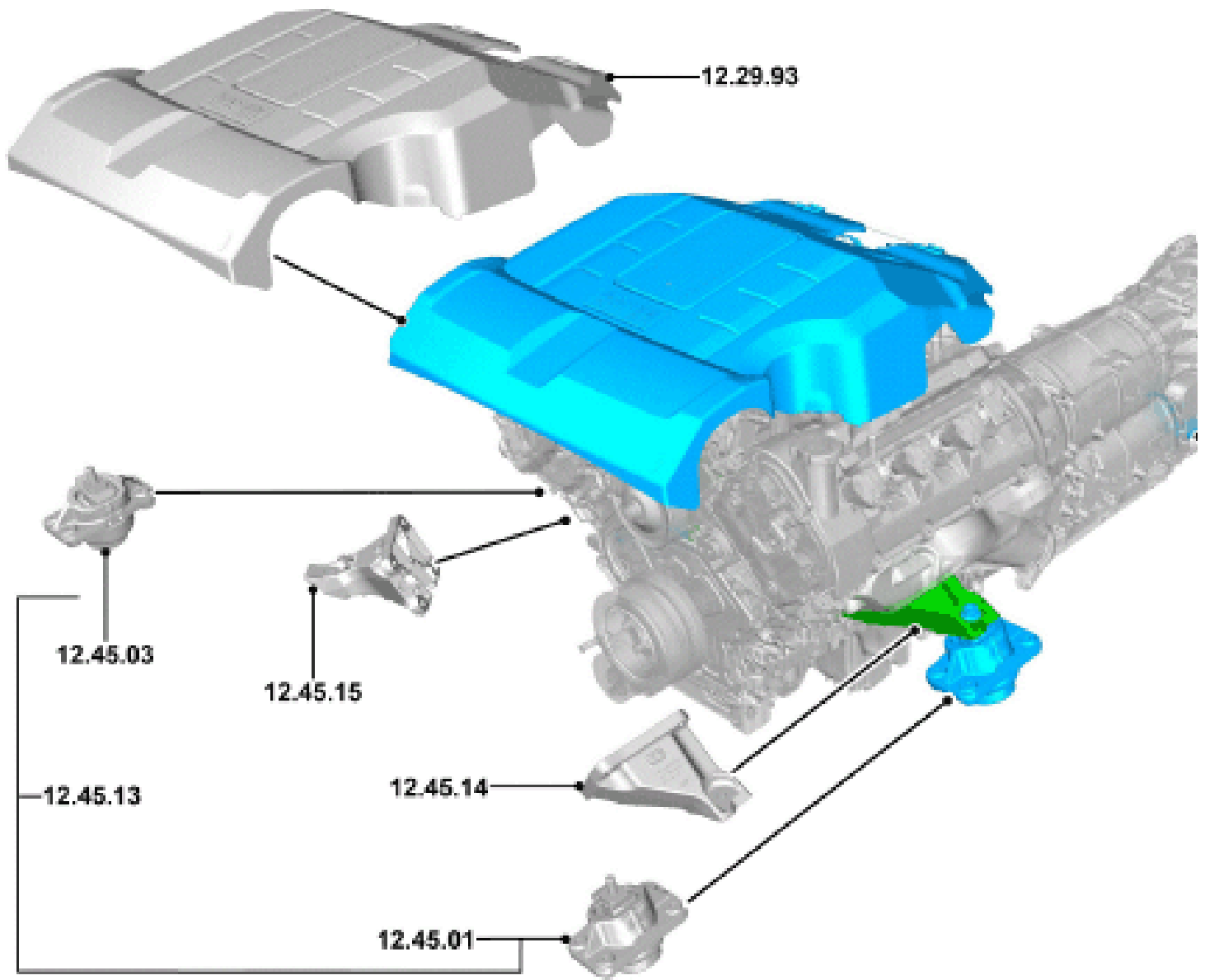
E173641

*Torque Specification: 48 Nm*

5. Refer to: [DRIVESHAFT - RWD](#) (Installation).

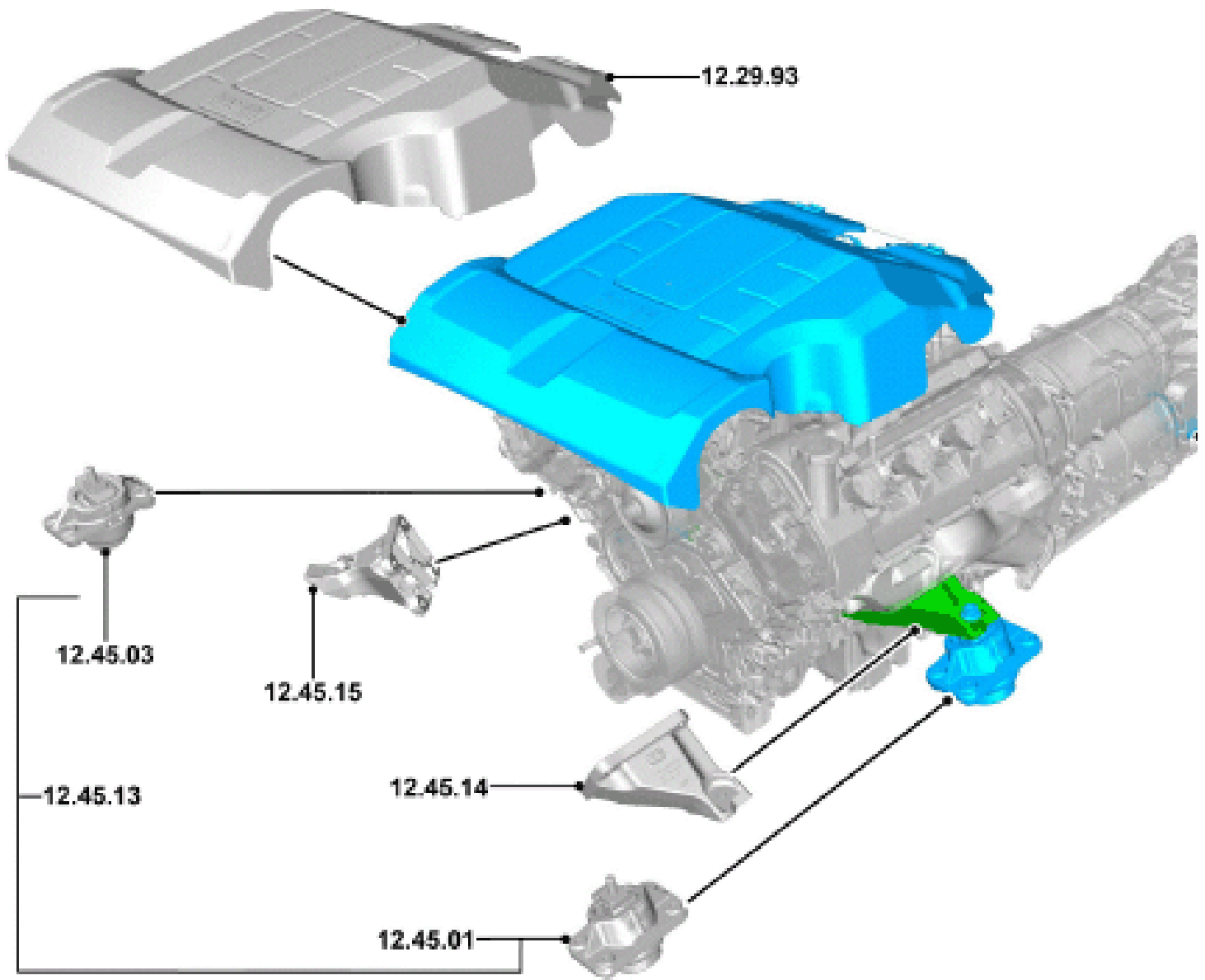
**TRANSMISSION SUPPORT INSULATOR (G1823835)**

12.45.35	TRANSMISSION REAR MOUNTING RUBBER - RENEW	AUTOMATIC TRANSMISSION	
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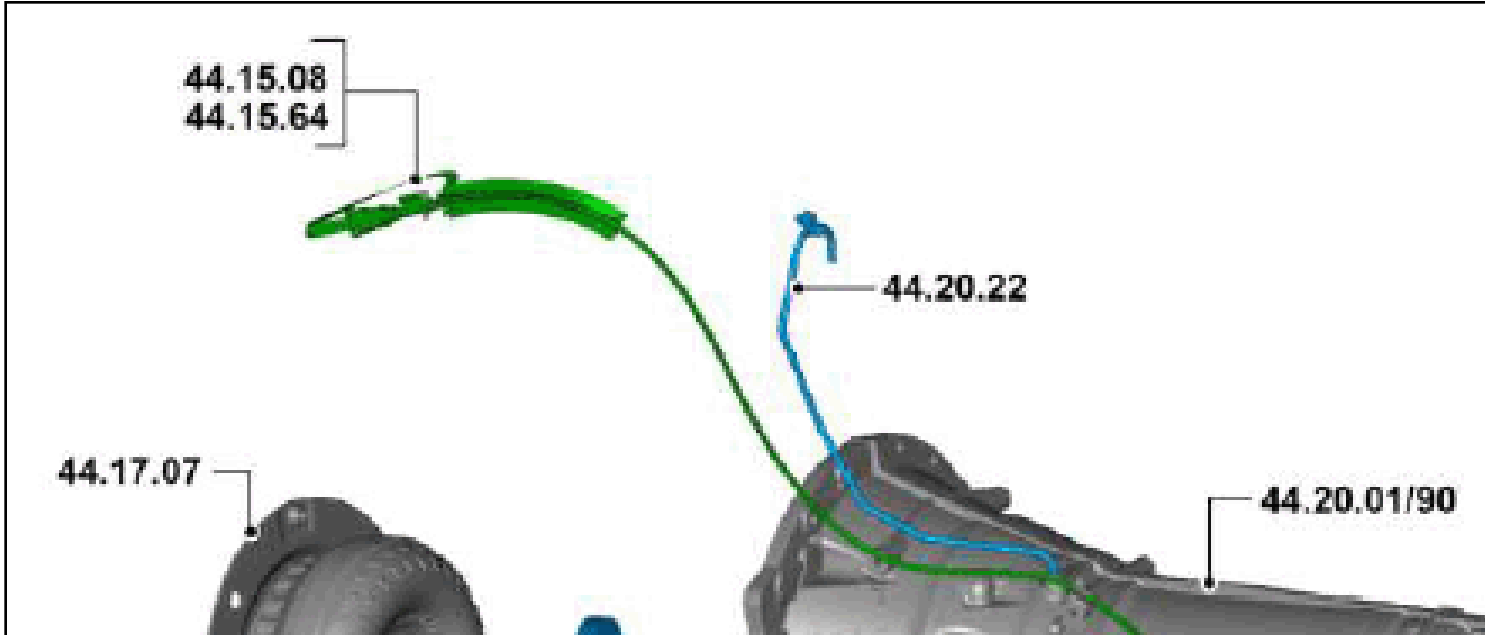


12.45.35	TRANSMISSION REAR MOUNTING RUBBER - RENEW	MANUAL TRANSMISSION	
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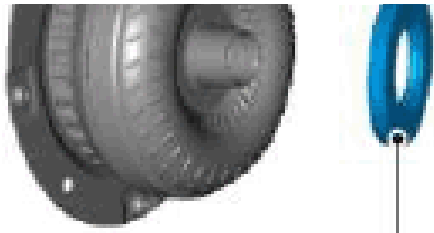
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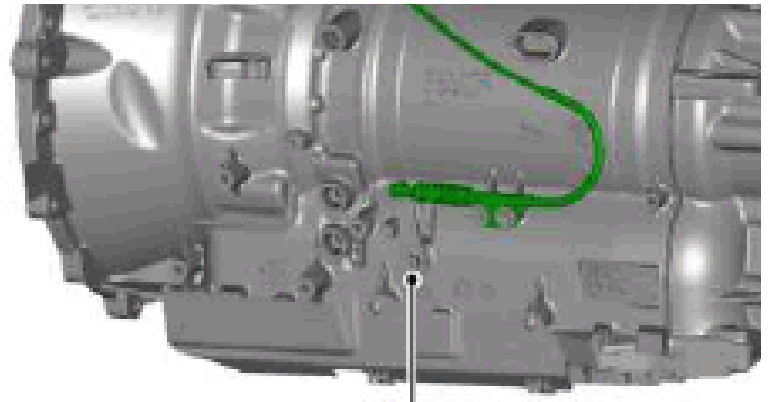
44.15.61	SELECTOR SHAFT OIL SEAL - RENEW	3000 CC, AJ V6 (AJ126), 4WD
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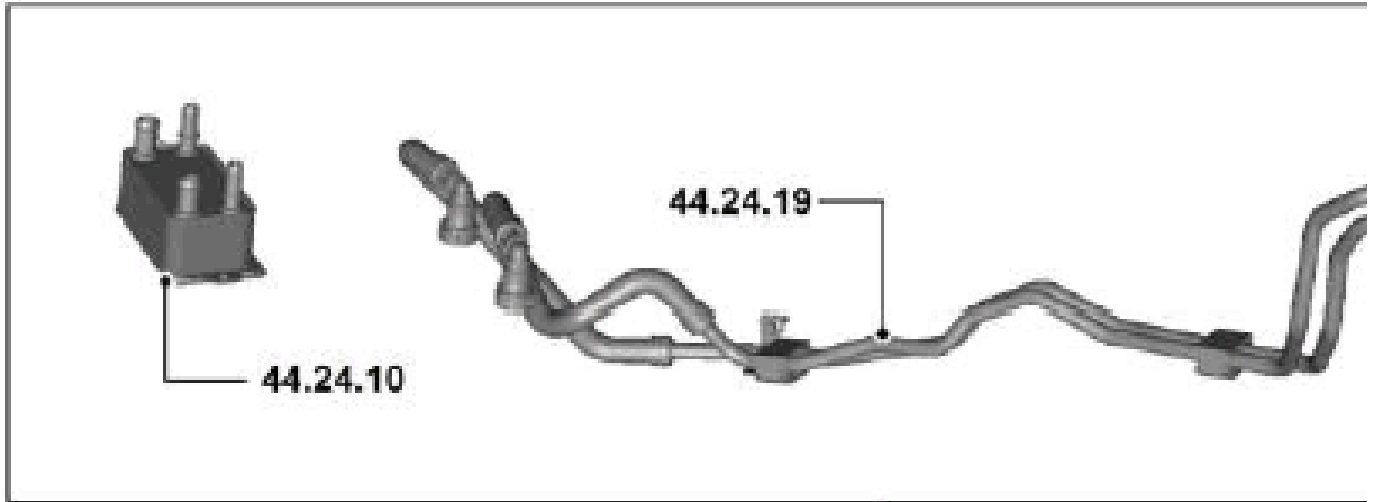




44.32.07



44.15.61



44.24.10

44.24.19

44.91.36

General Equipment

EQUIPMENT NAME

Transmission jack

Removal

**NOTE:**

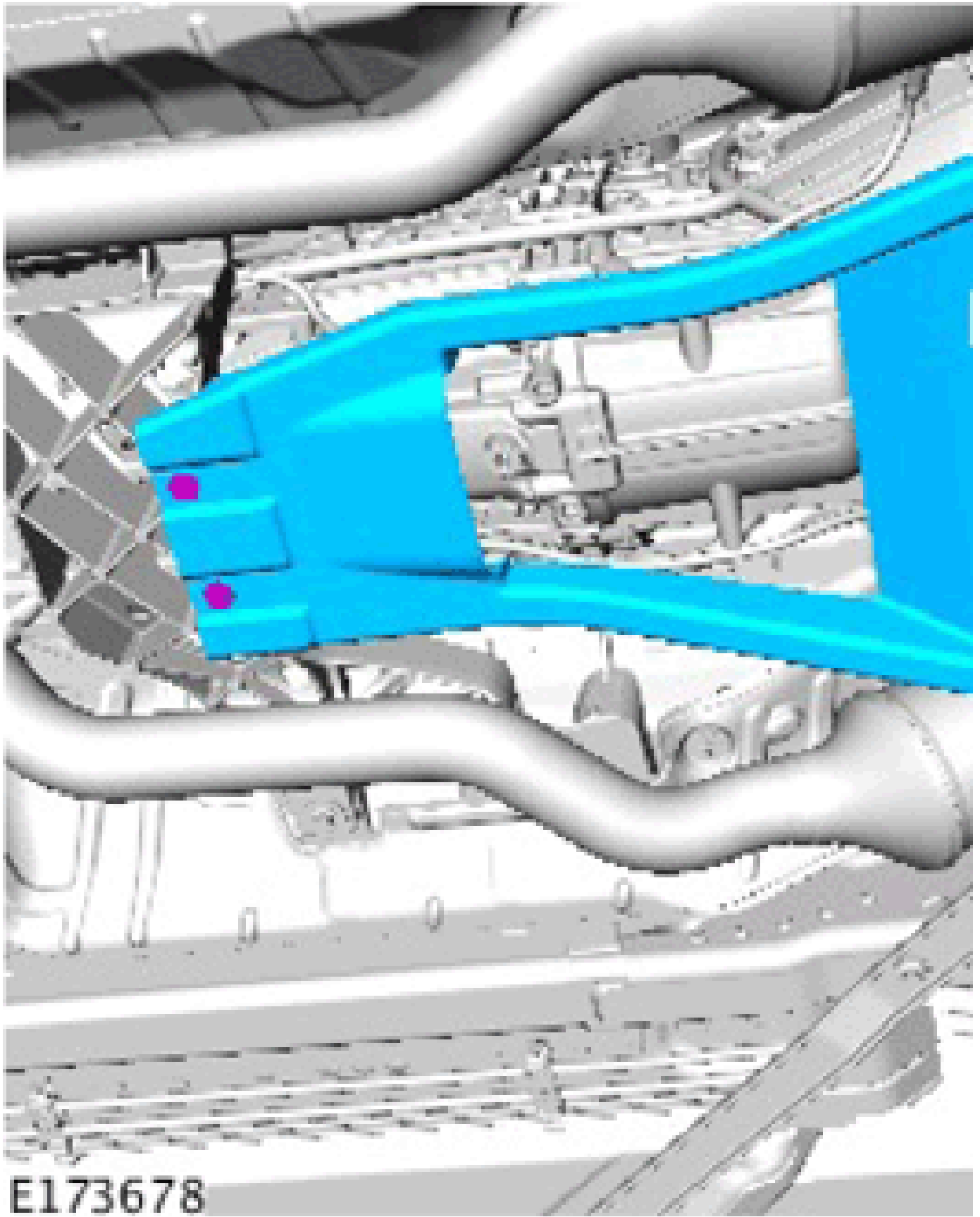
- Some variation in the illustrations may occur, but the essential information is always correct.
- Some illustrations may show the transmission removed for clarity.
- Removal steps in this procedure may contain installation details.

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

Raise and support the vehicle.

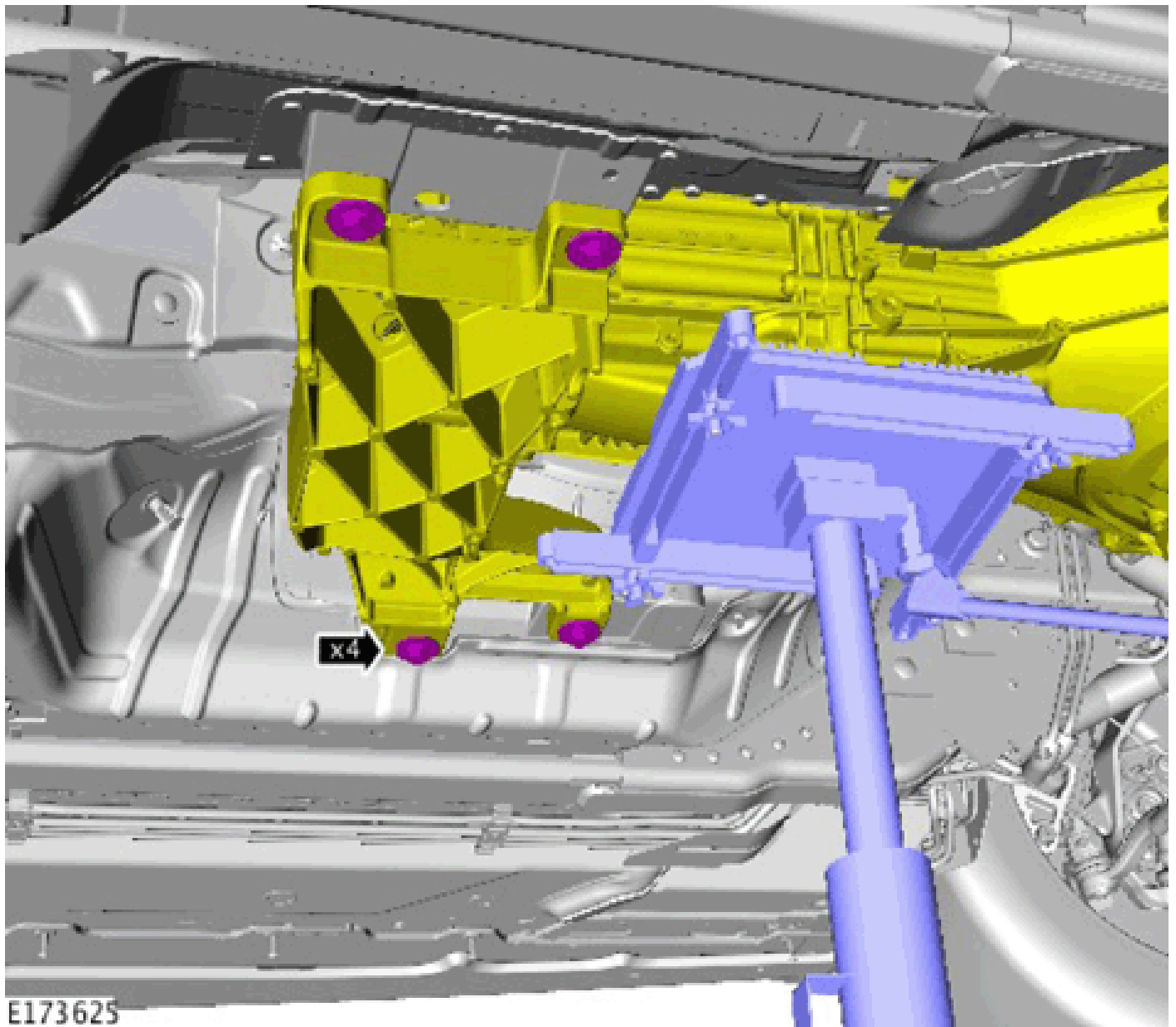
2.

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E173678

*Torque Specification: 9 Nm*

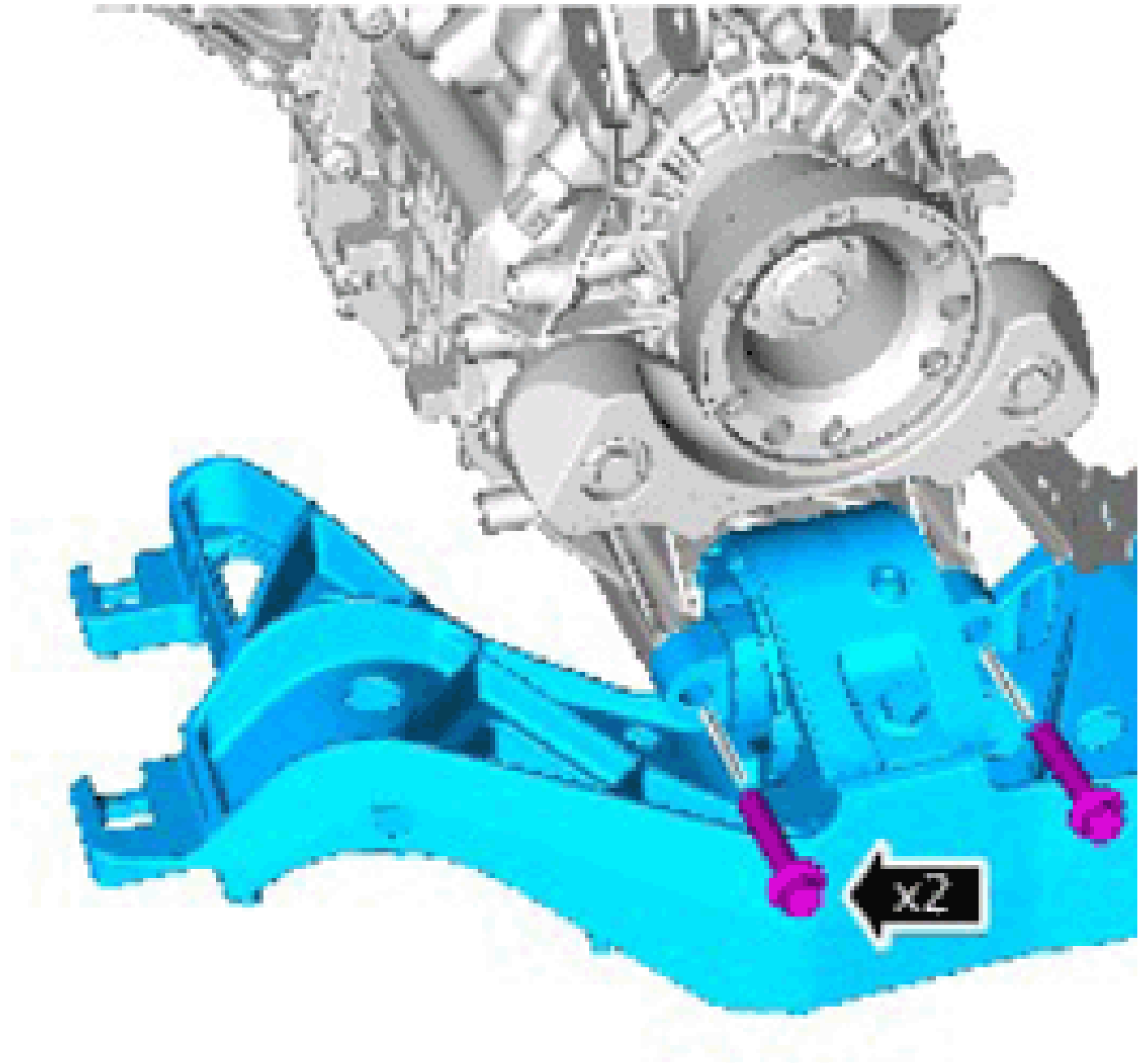


**Support the transmission.**

*General Equipment:* Transmission jack

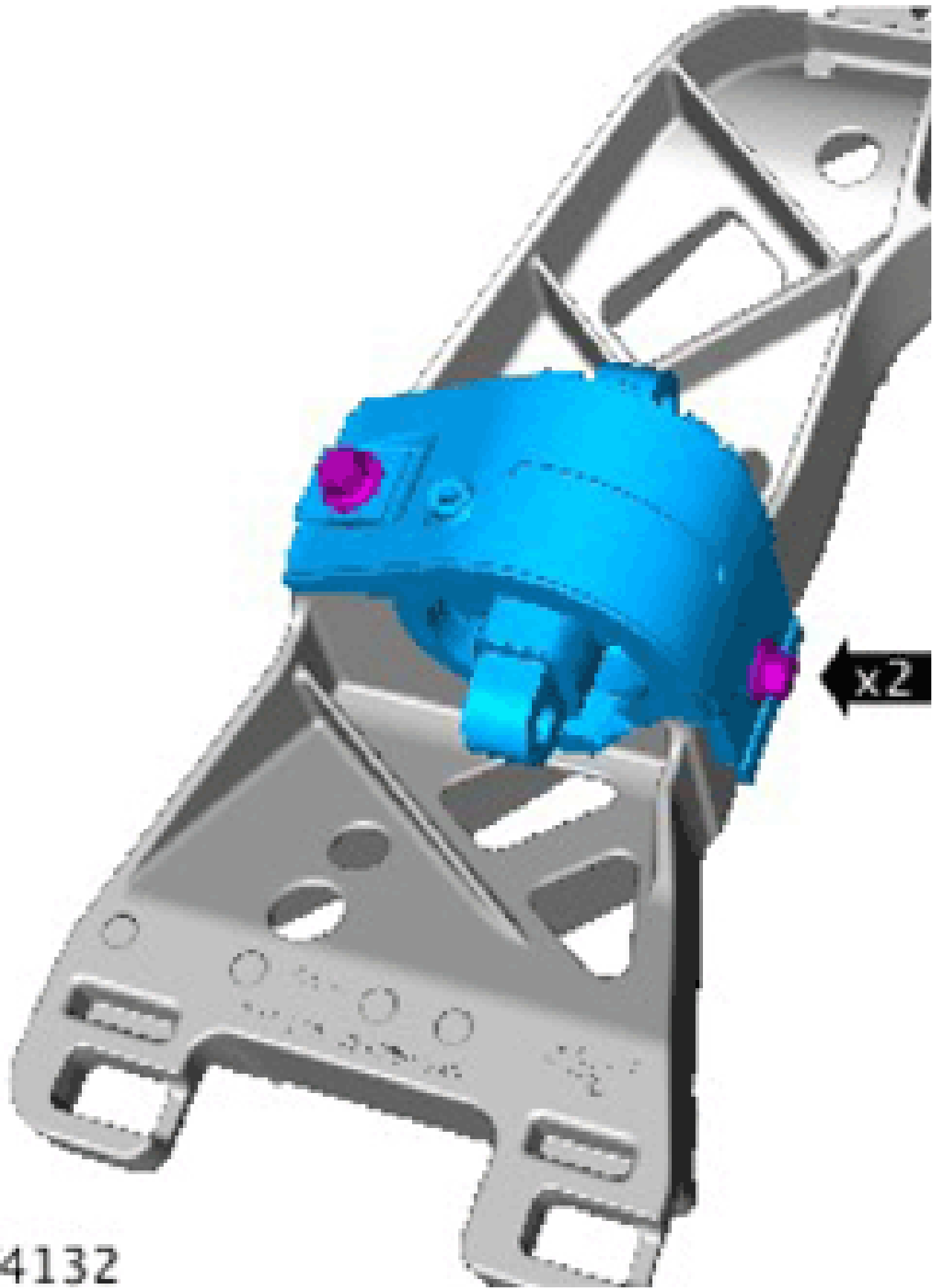
*Torque Specification:* 45 Nm

4.



**E173638**

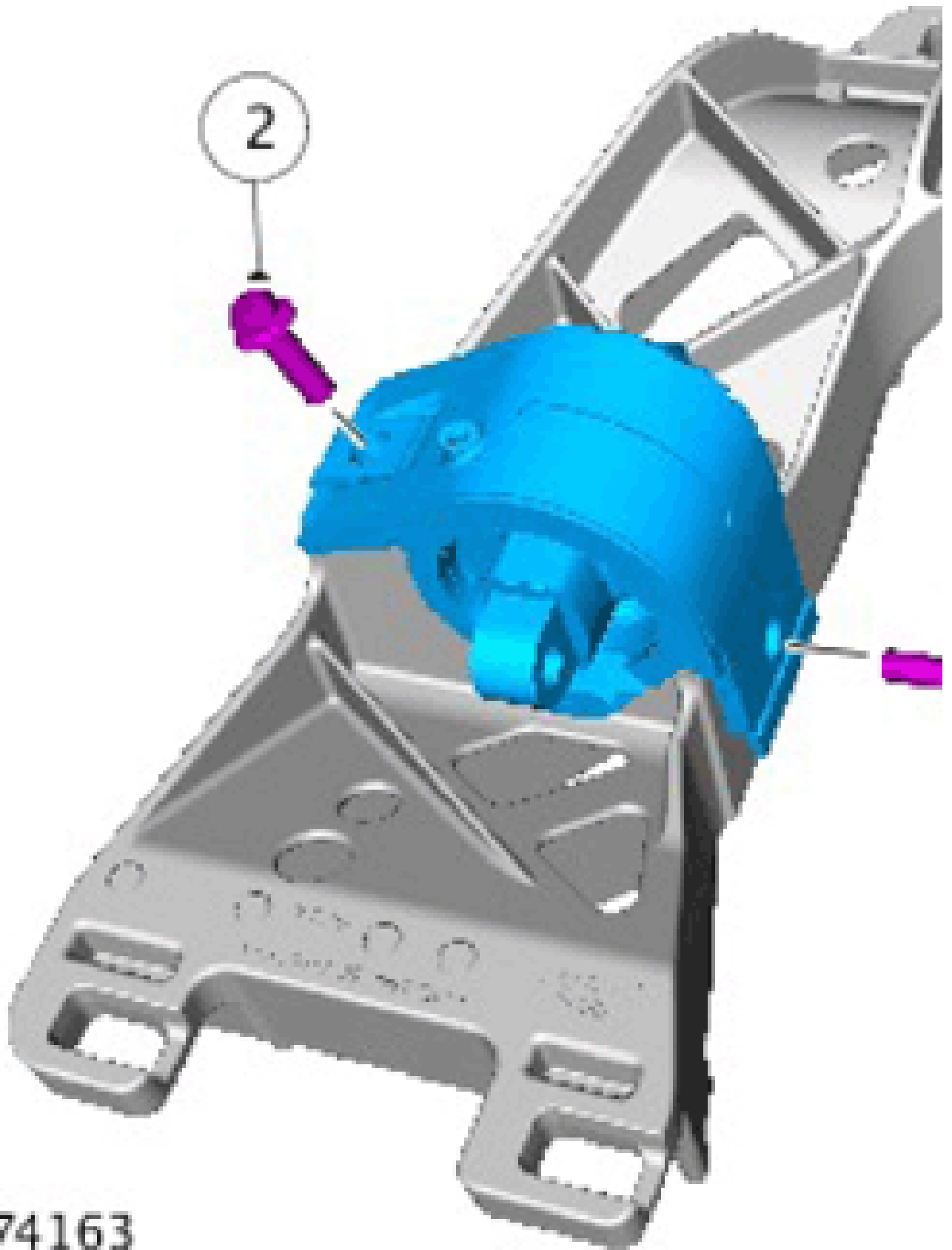
*Torque Specification: 48 Nm*



E174132

Installation

1. CAUTION: Tighten the bolts in the sequence shown.



**E174163**

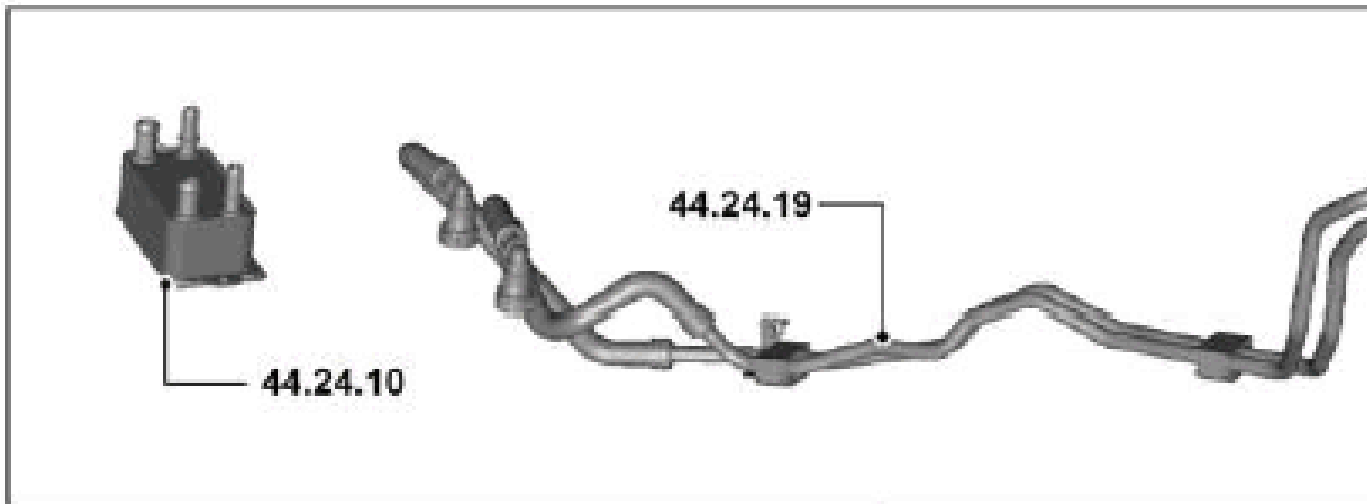
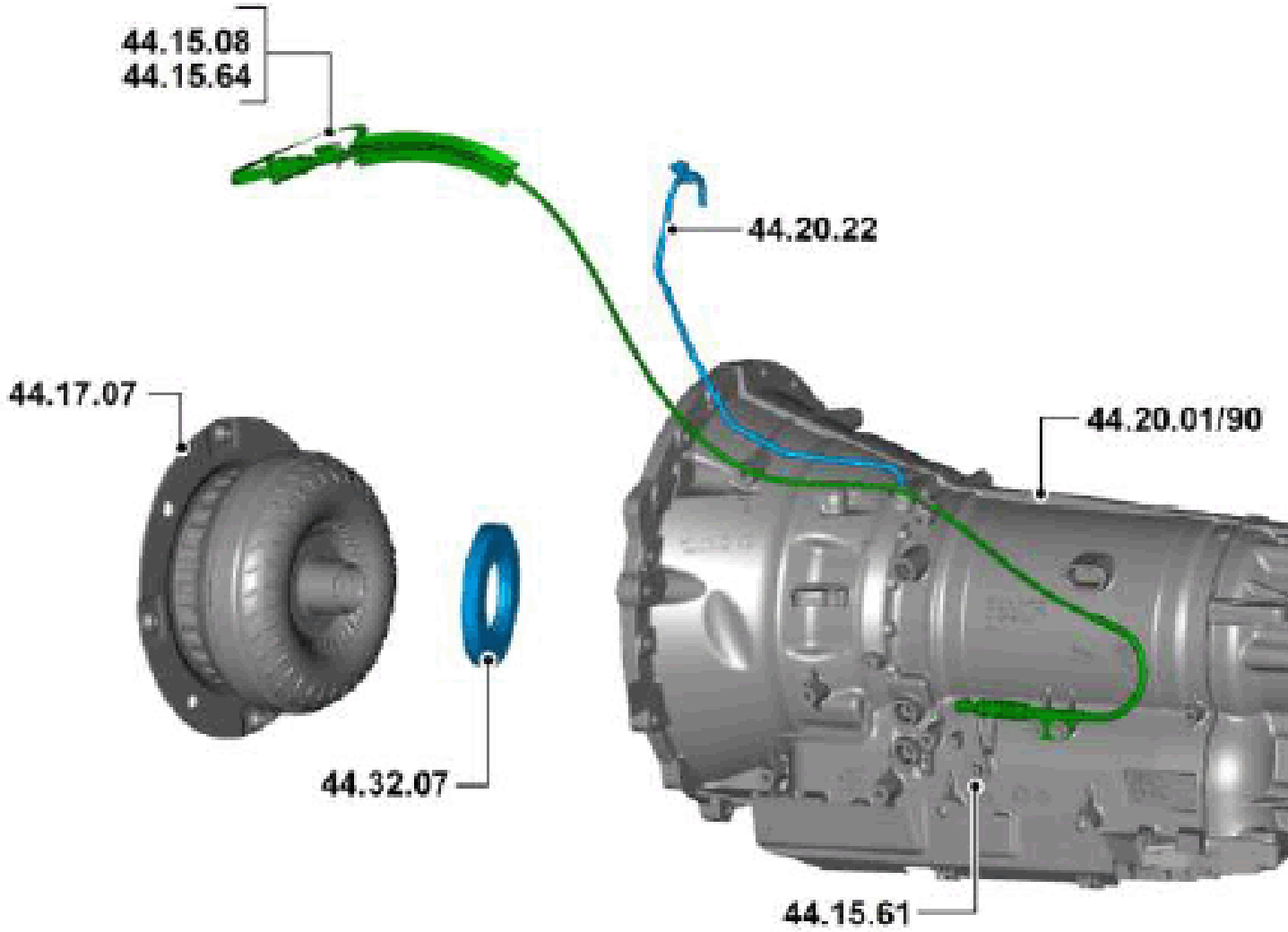
*Torque Specification: 70 Nm*

2. To install, reverse the removal procedure.

**SELECTOR SHAFT SEAL (G1851897)**

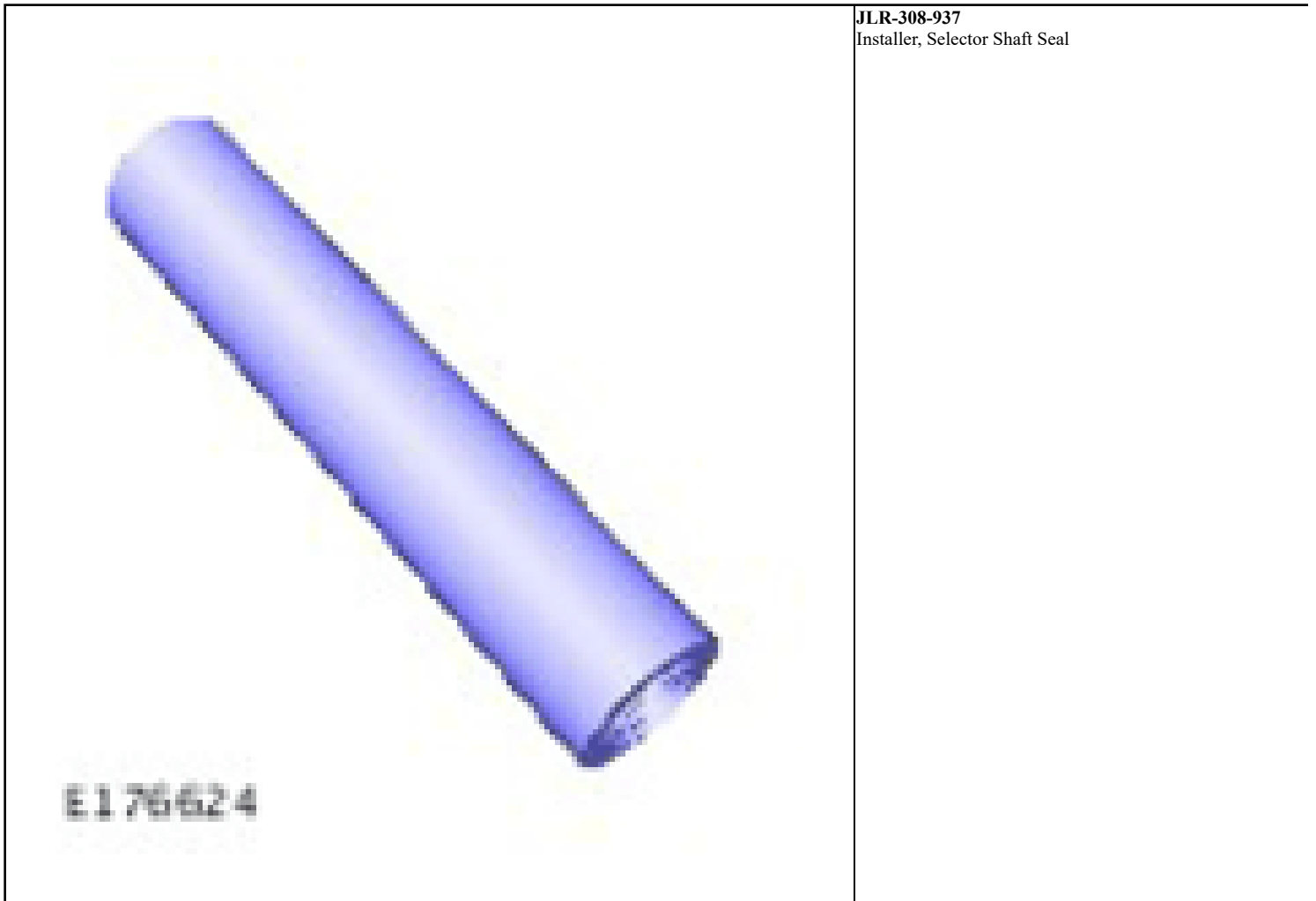
37.23.08	SELECTOR SHAFT OIL SEAL - RENEW	3000 CC, AJ V6 (AJ126)	
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44.15.61	SELECTOR SHAFT OIL SEAL - RENEW	3000 CC, AJ V6 (AJ126), 4WD	
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Special Tool(S)

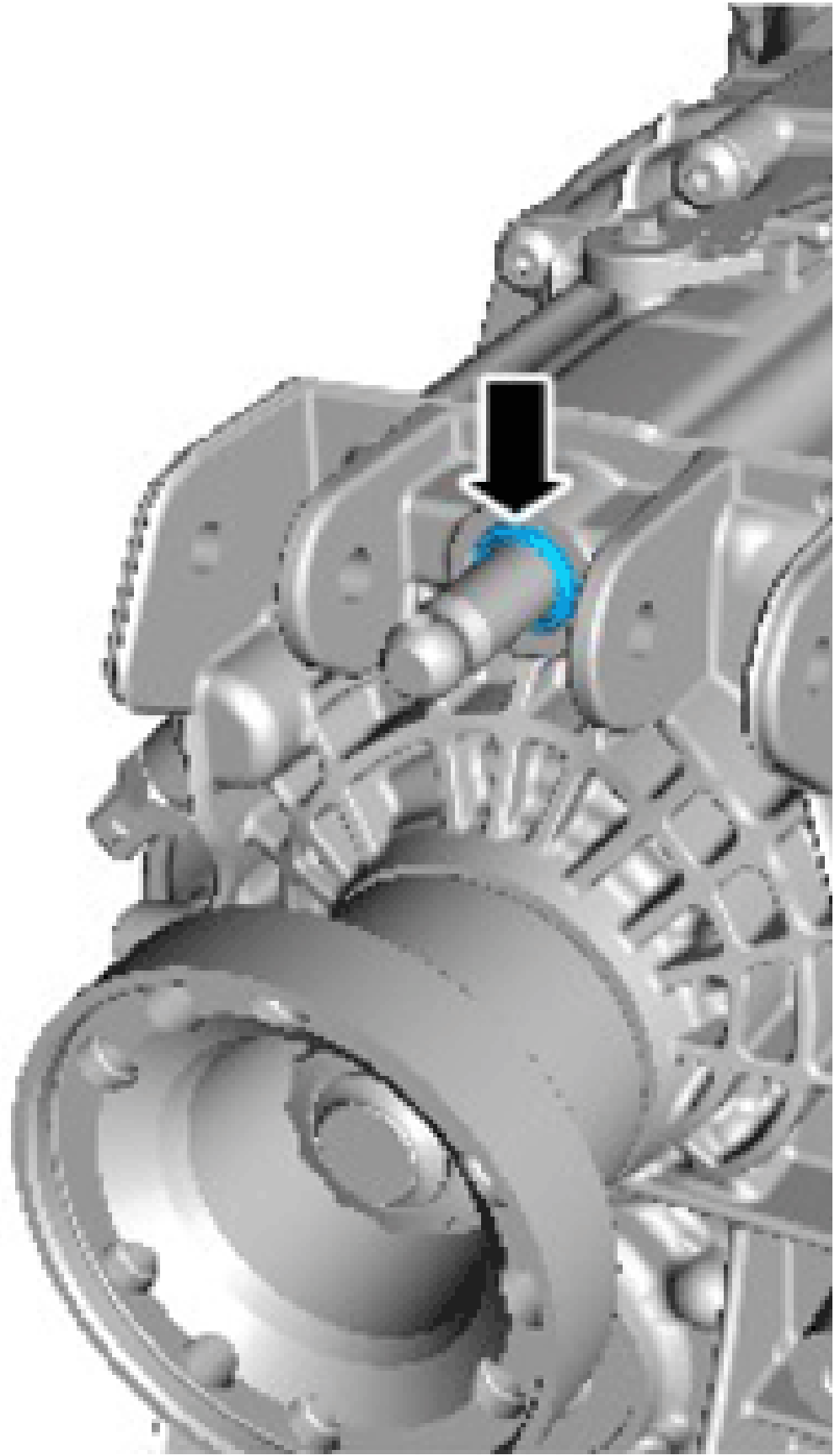


Removal

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

1. Refer to: [Selector Lever Assembly](#) (Removal and Installation).
2. **CAUTION:**
  - Take extra care when removing the component, prevent damage to the mating faces.
  - Discard the seal.

**NOTE:** Using a suitable tool, remove the oil seal.



E175511

Installation

1. CAUTION:
  - Make sure that the mating faces are clean and free of foreign material.
  - Install a new seal.

- Make sure that the seal is correctly located.

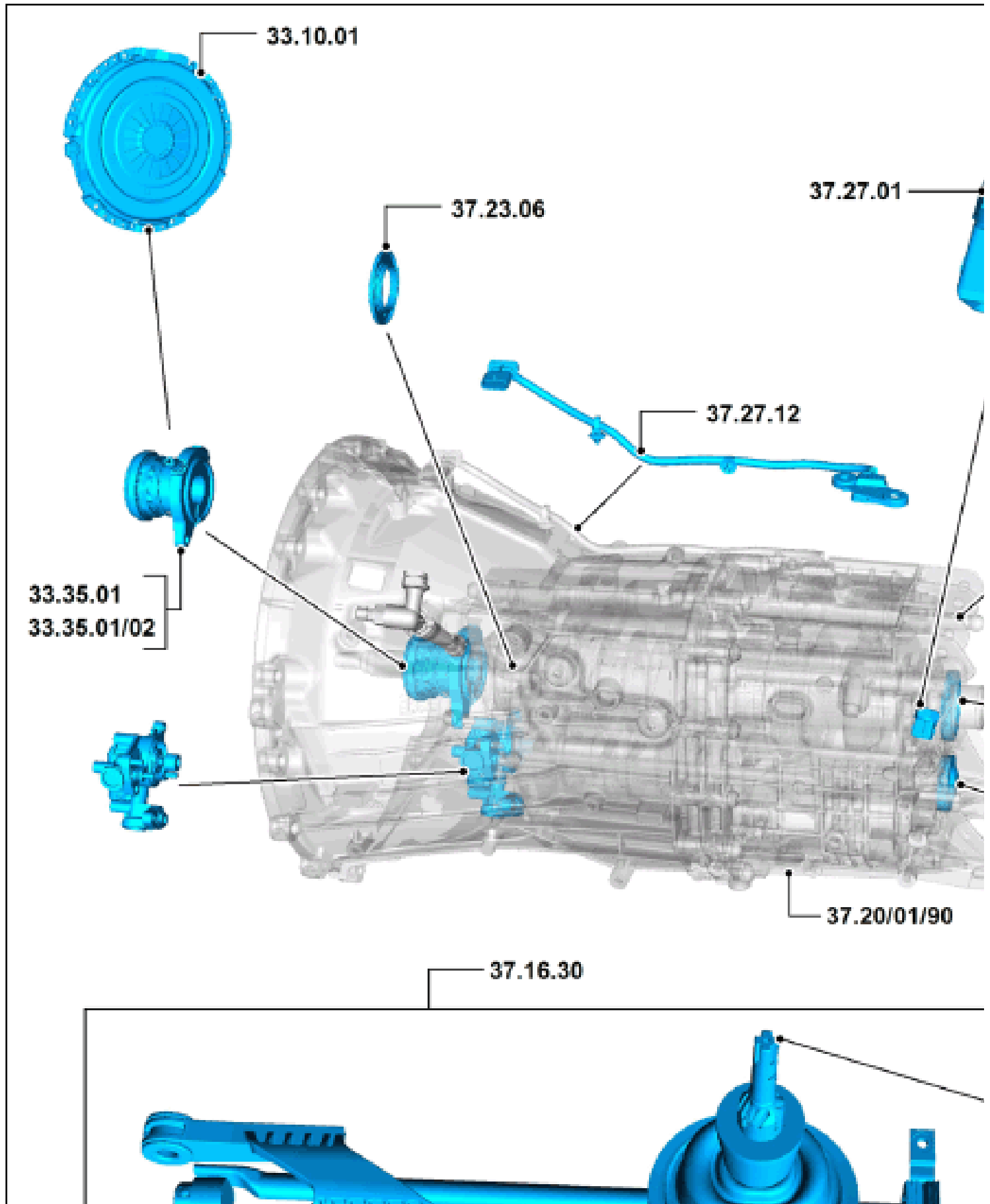
**JLR-308-937**

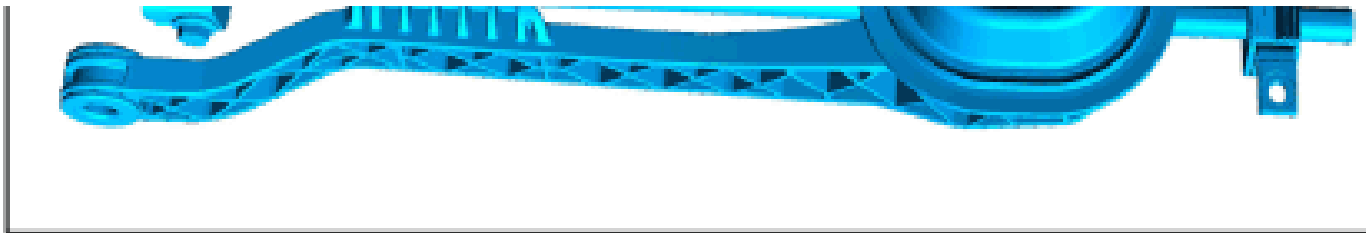
**E175512**

2. Refer to: [Selector Lever Assembly](#). (Installation).

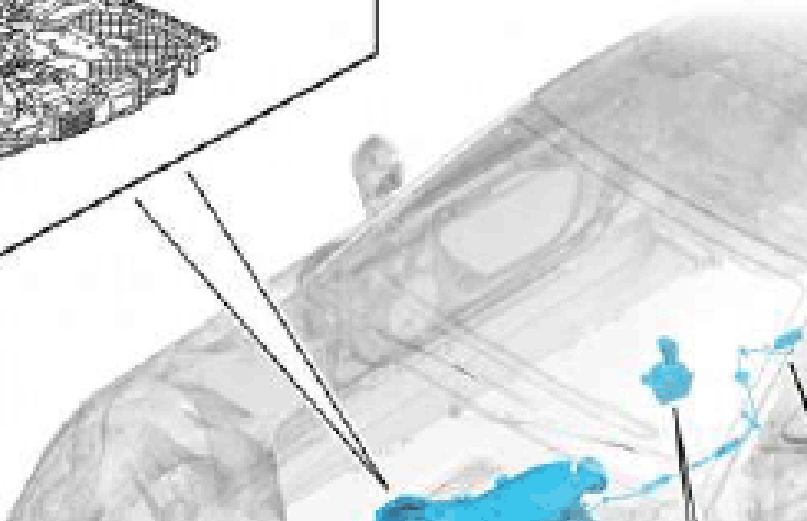
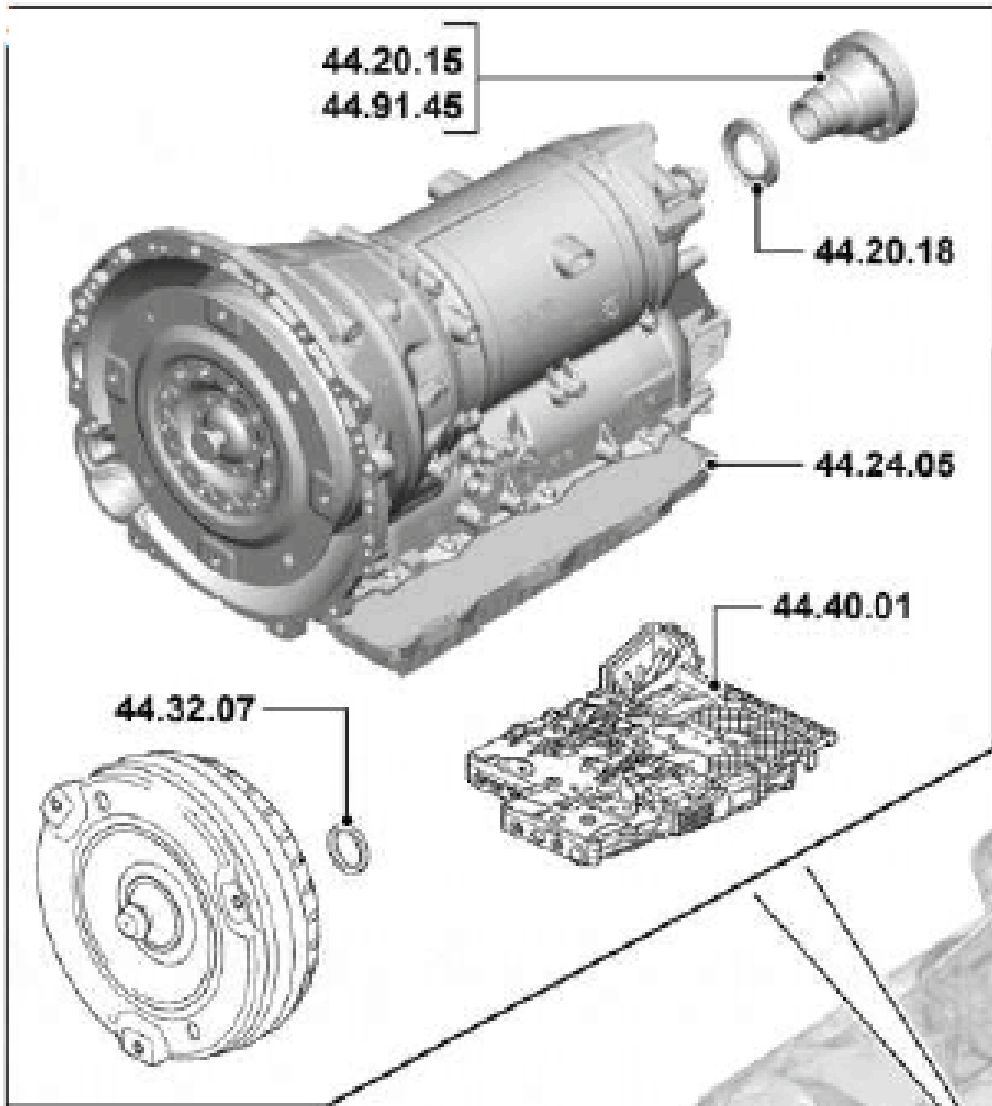
TRANSMISSION (G1821615)

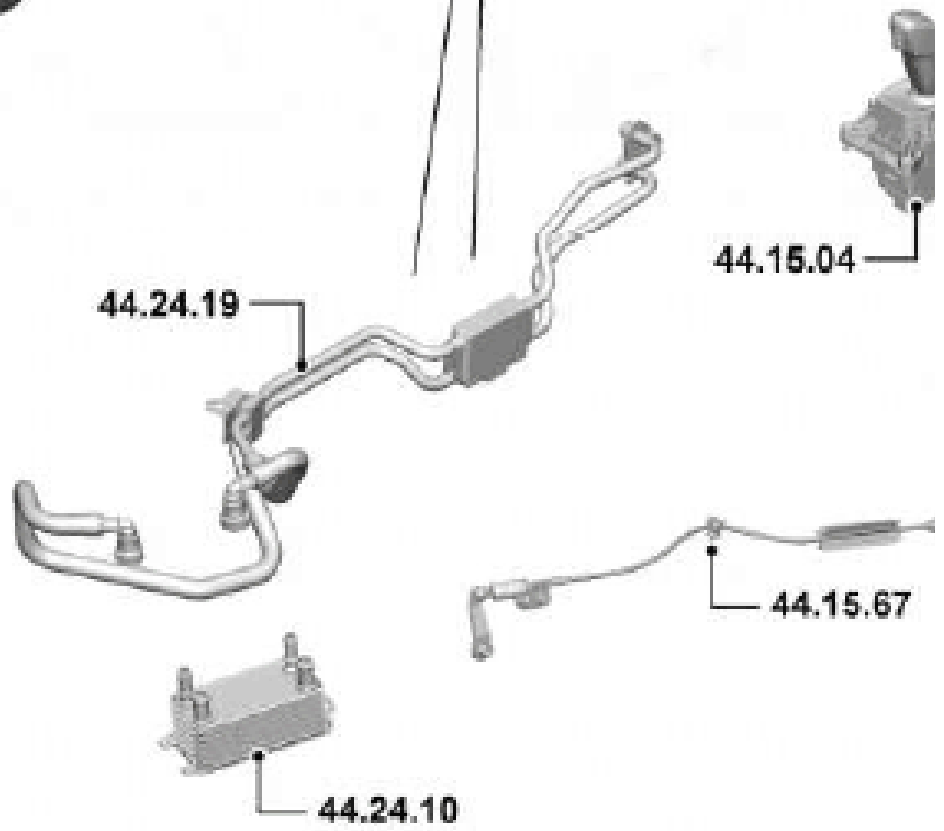
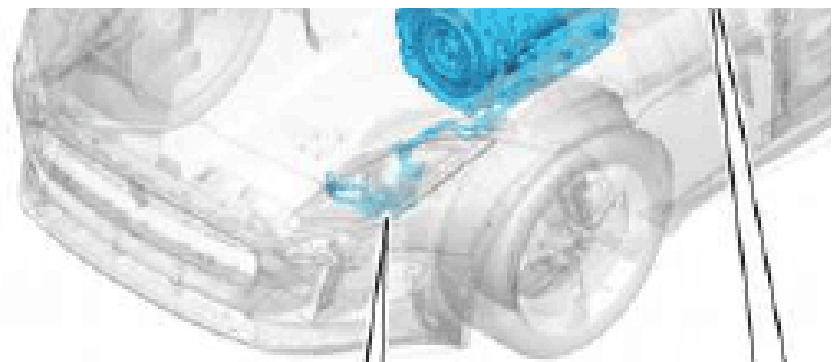
37.20.01	TRANSMISSION ASSEMBLY - RENEW	3000 CC, AJ V6 (AJ126)	
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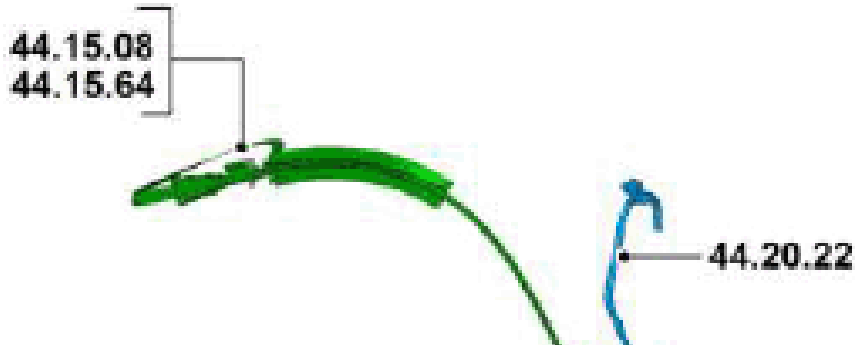


44.20.01	TRANSMISSION ASSEMBLY - RENEW	3000 CC, AJ V6 (AJ126), 2WD
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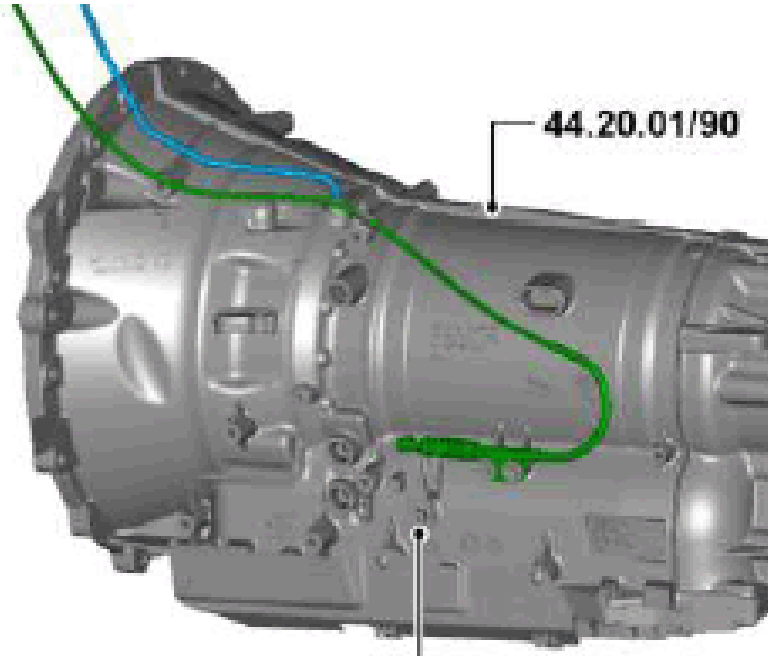
44.20.01	TRANSMISSION ASSEMBLY - RENEW	3000 CC, AJ V6 (AJ126), 4WD	
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44.17.07

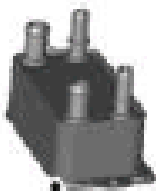


44.32.07

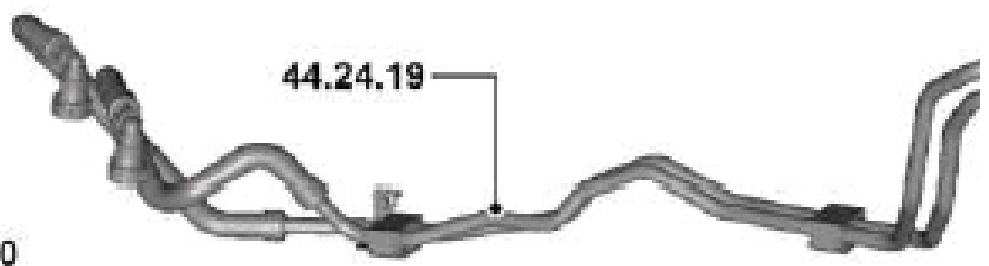


44.20.01/90

44.15.61

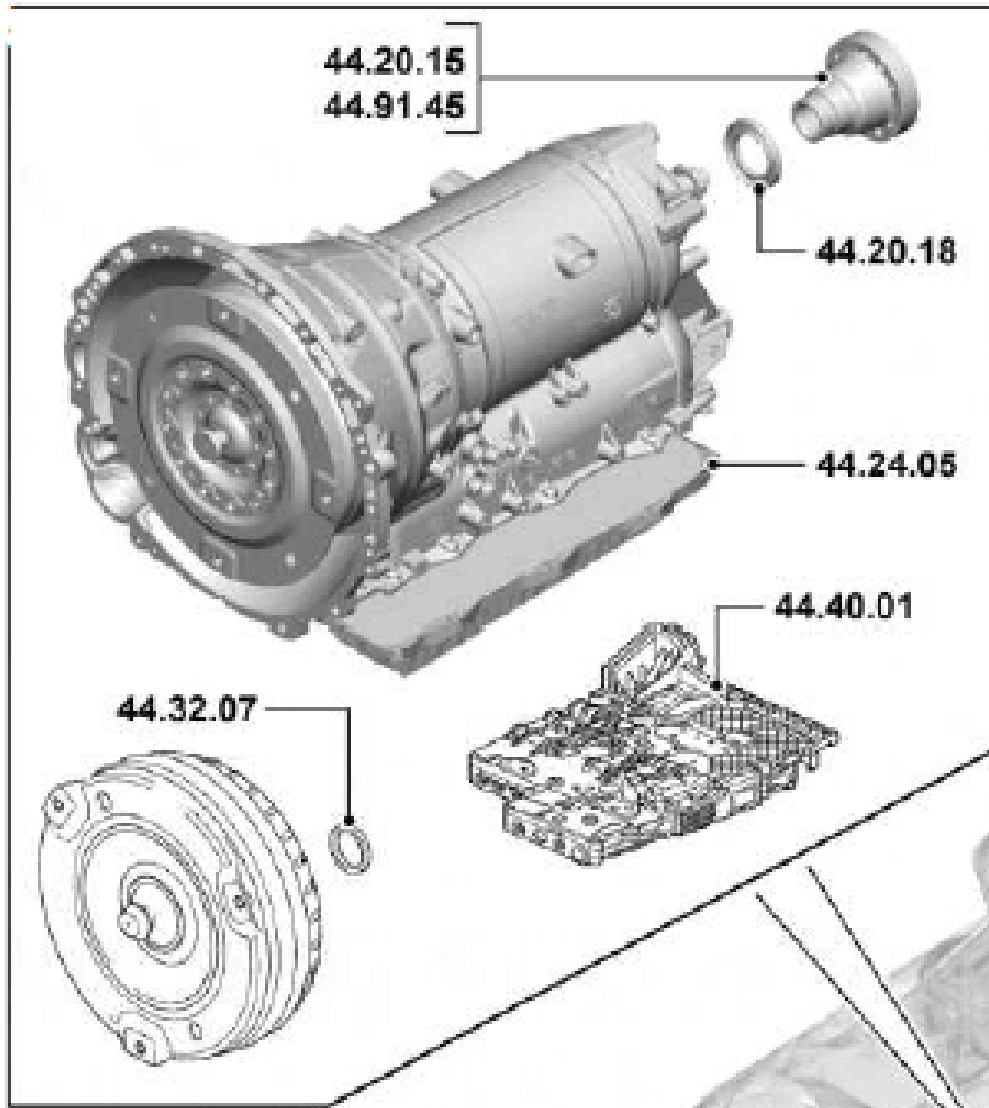


44.24.10

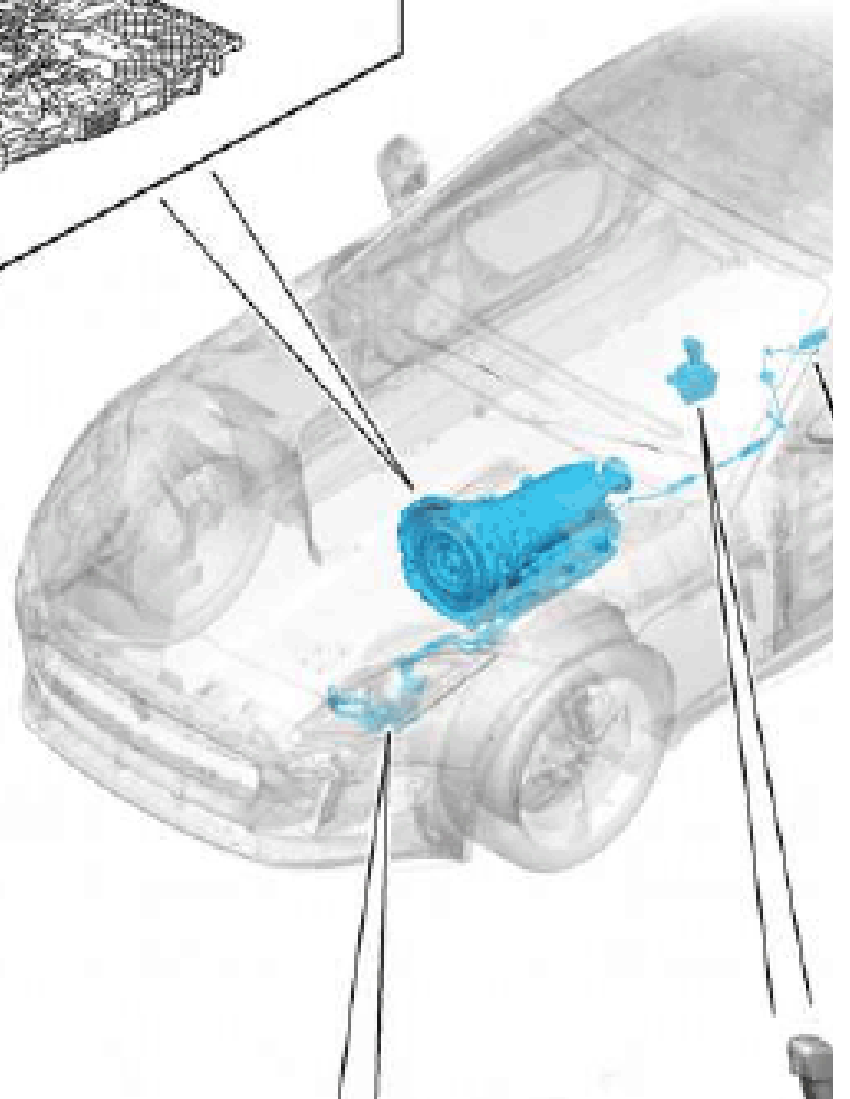


44.24.19

44.91.36

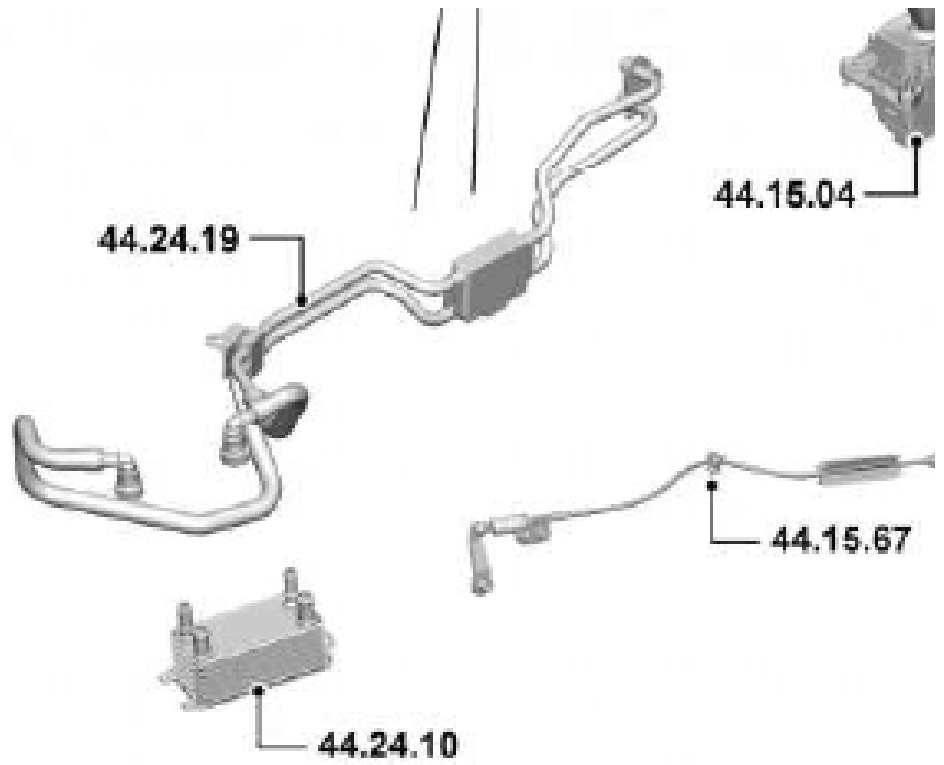


**44.20.01**  
**44.20.01/90**





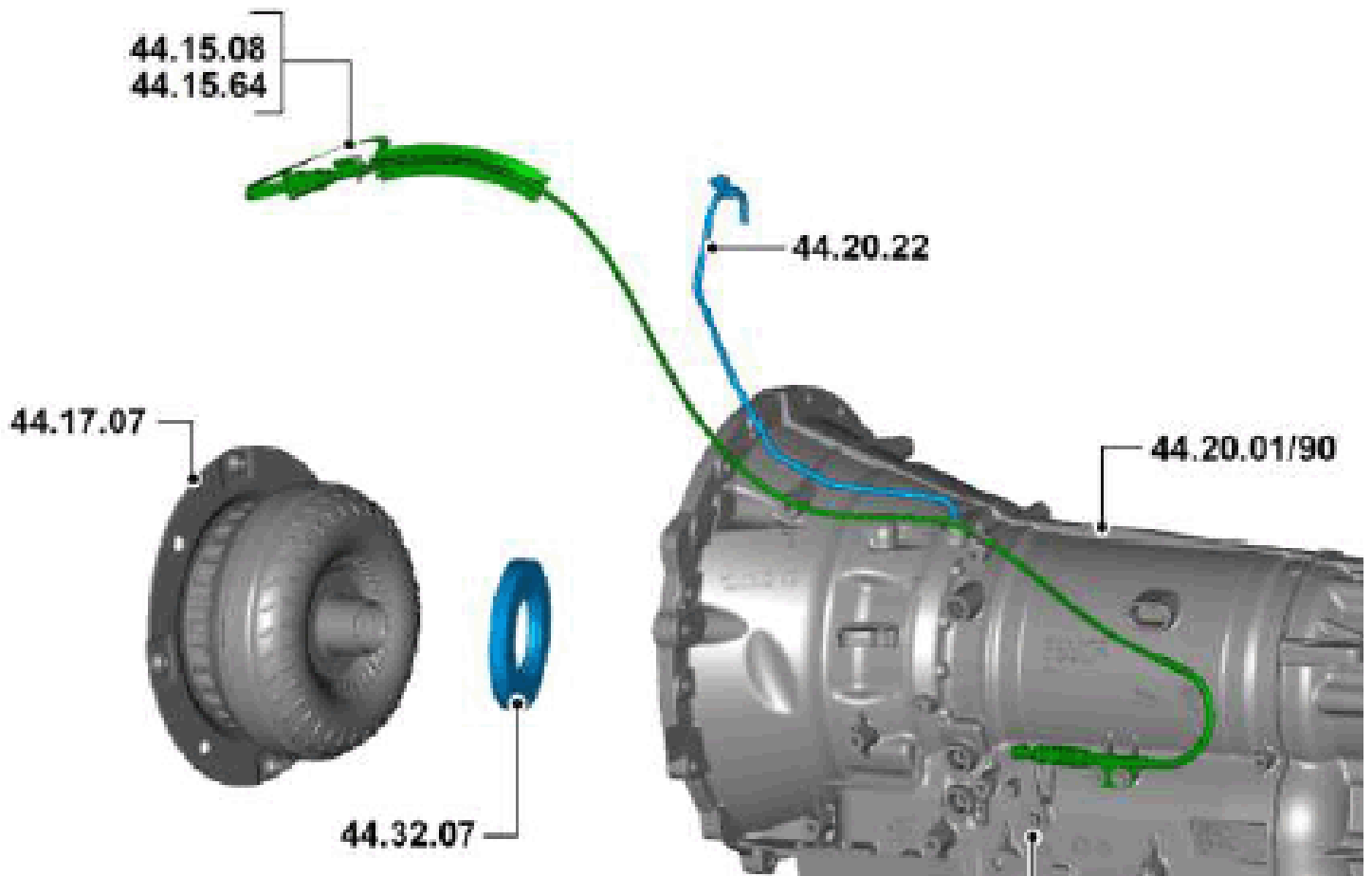
44.15.63

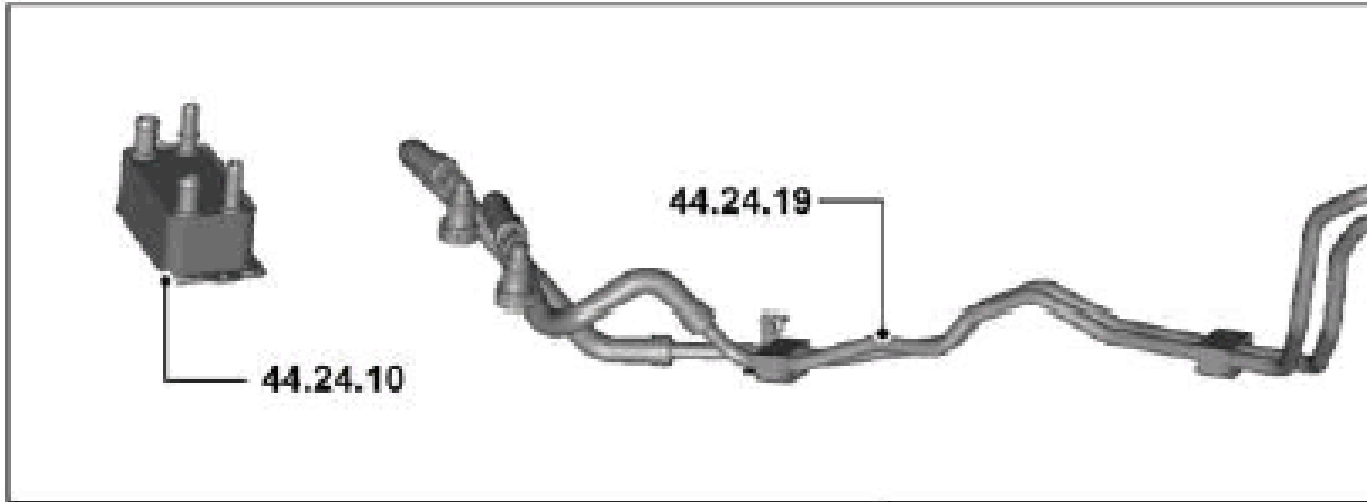
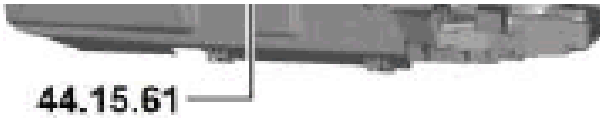


44.20.01

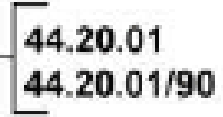
TRANSMISSION ASSEMBLY - RENEW

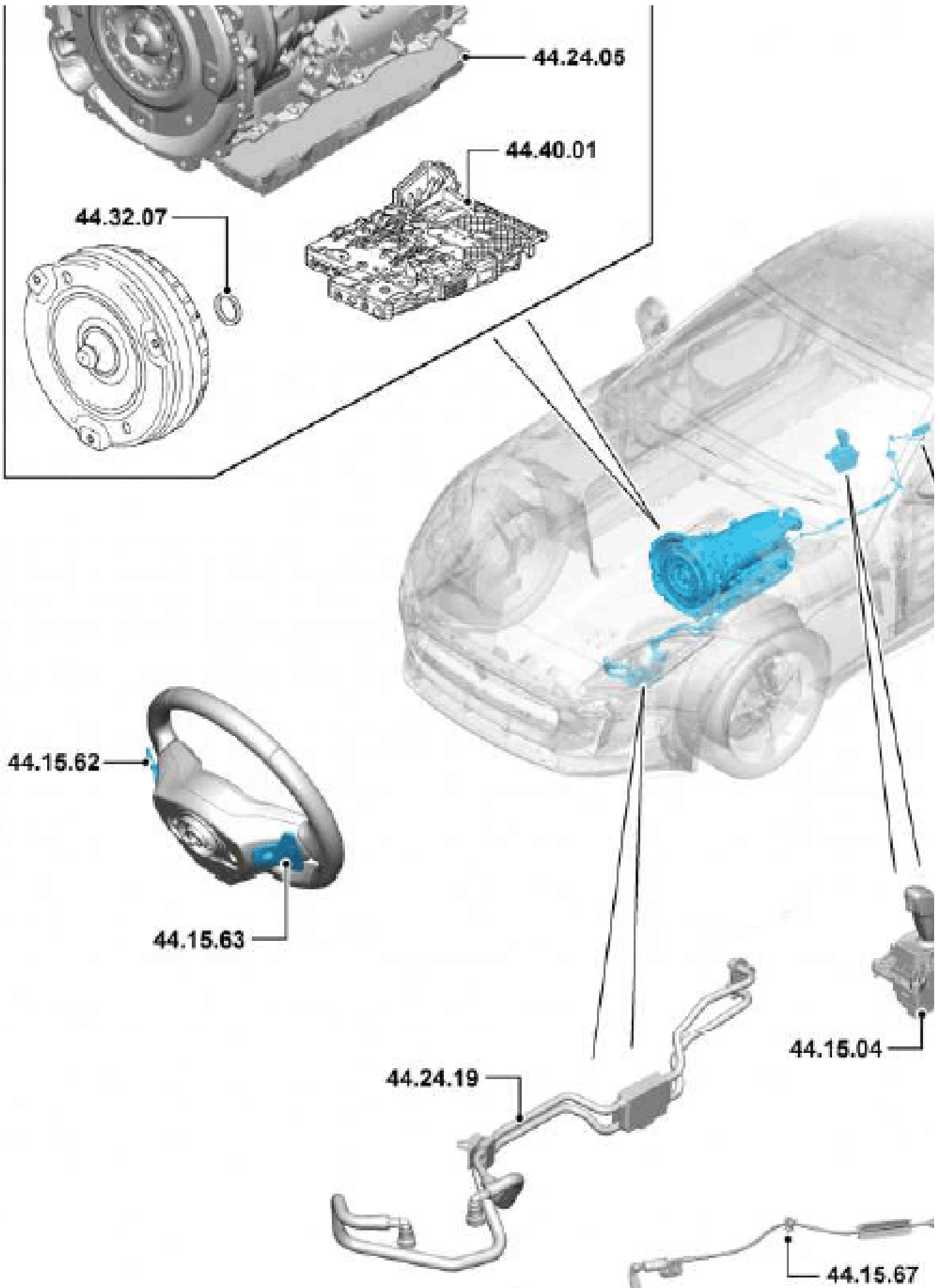
5000 CC, AJ V8, 4WD

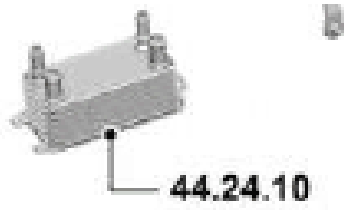




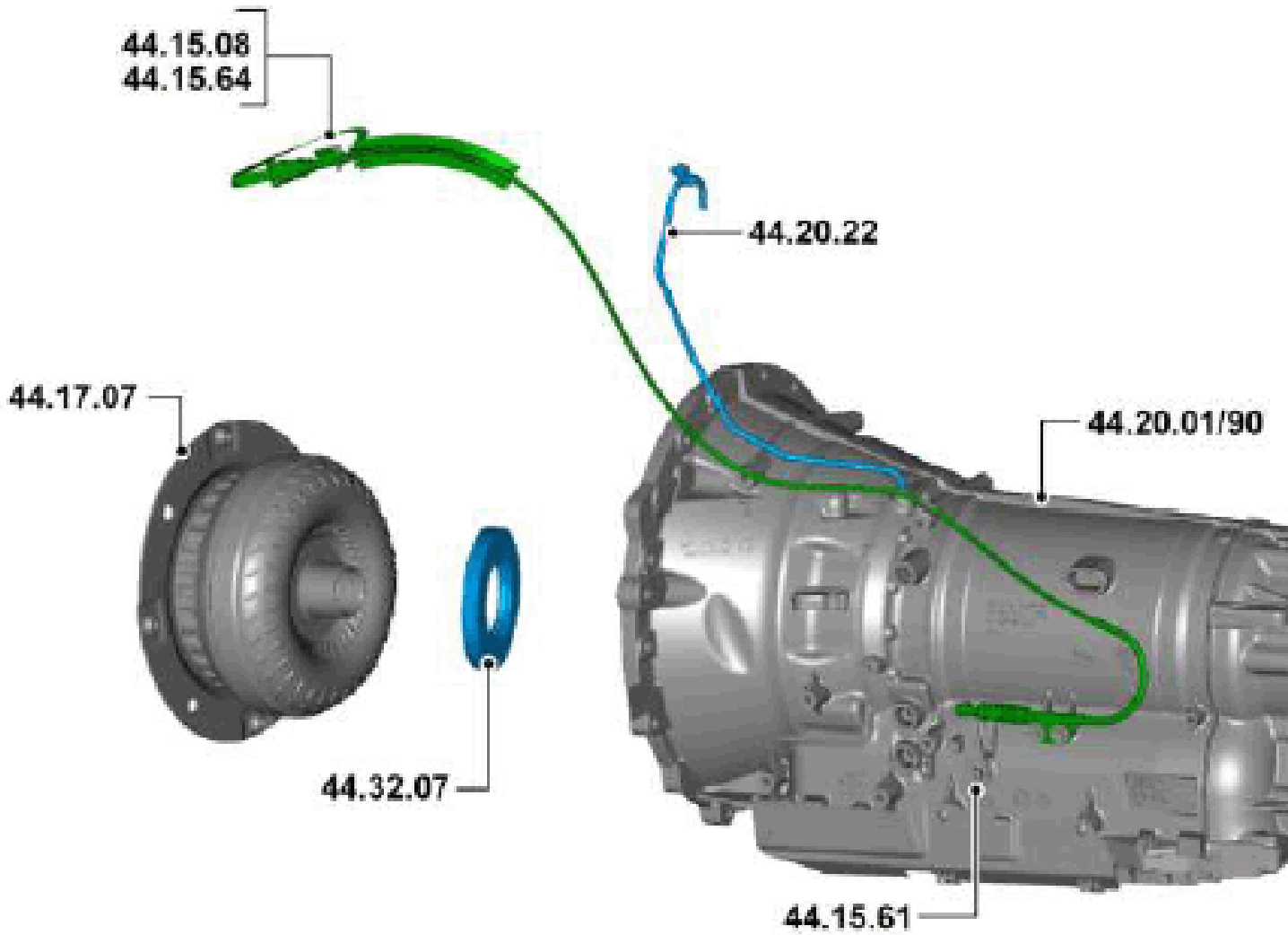
44.20.01.90	TRANSMISSION ASSEMBLY - REMOVE FOR ACCESS, AND INSTALL	3000 CC, AJ V6 (AJ126), 2WD	
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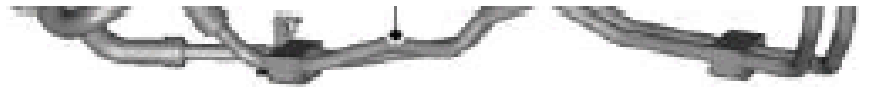




44.20.01.90	TRANSMISSION ASSEMBLY - REMOVE FOR ACCESS, AND INSTALL	3000 CC, AJ V6 (AJ126), 4WD	
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44.24.10



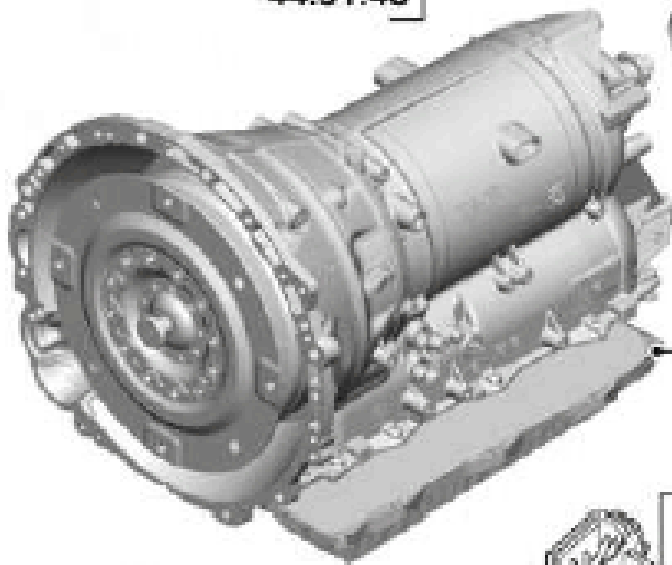
44.91.36

44.20.01.90

TRANSMISSION ASSEMBLY - REMOVE FOR  
ACCESS, AND INSTALL

5000 CC, AJ V8, 2WD

44.20.15  
44.91.45



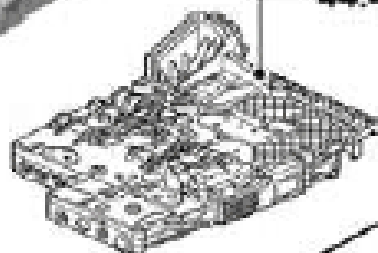
44.20.18

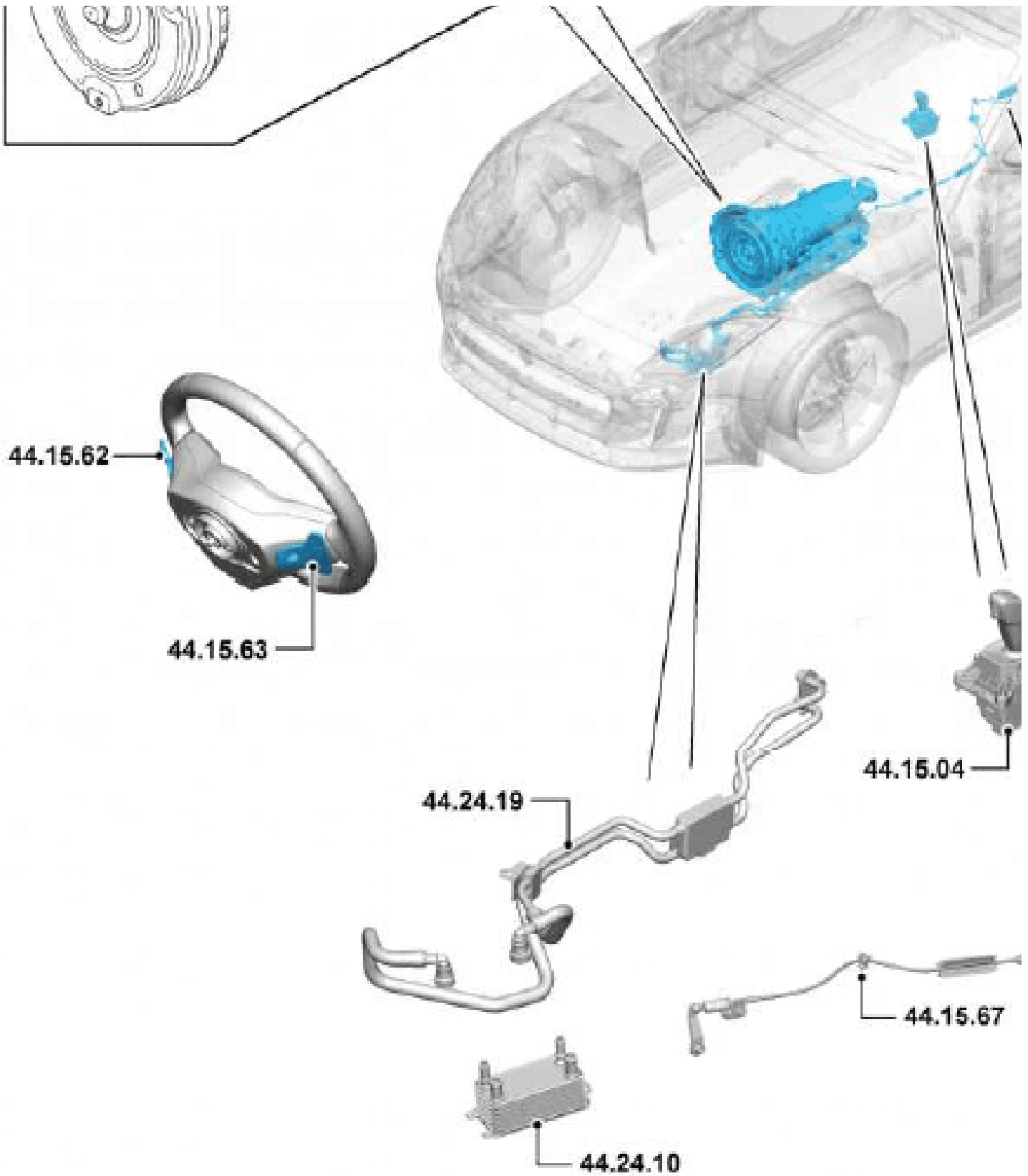
44.24.05

44.40.01

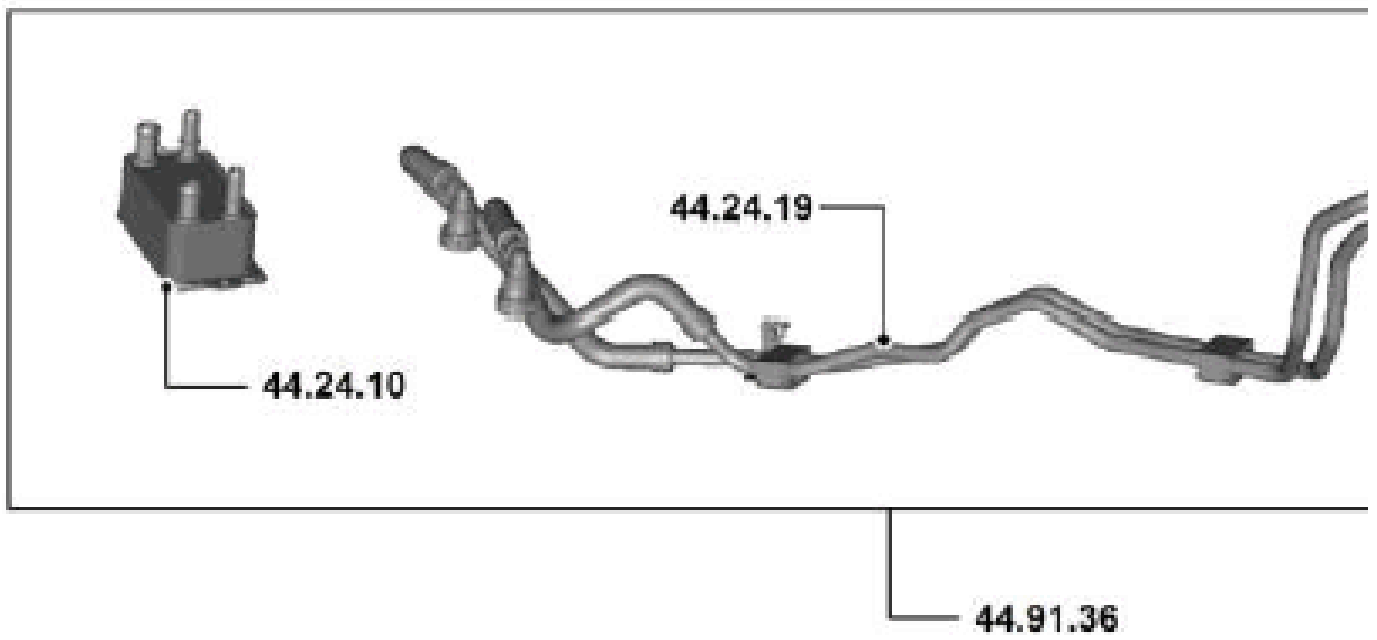
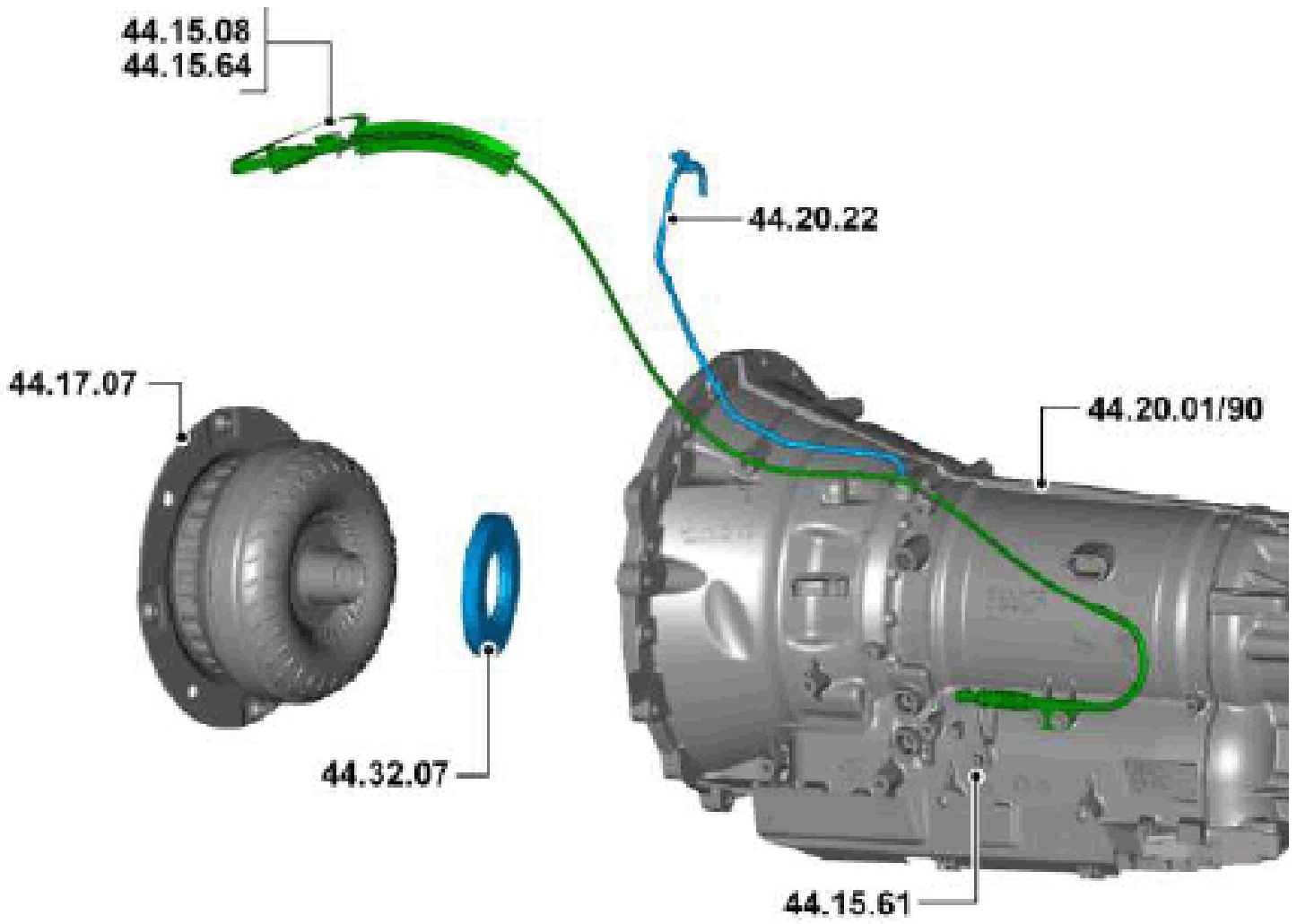
44.20.01  
44.20.01/90

44.32.07





44.20.01.90	TRANSMISSION ASSEMBLY - REMOVE FOR ACCESS, AND INSTALL	5000 CC, AJ V8, 4WD
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86.75.50

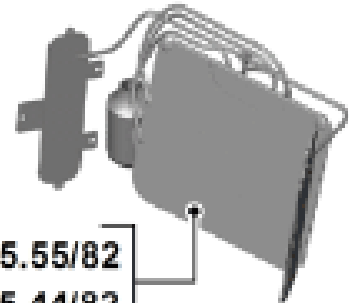
FRONT SEAT TRACK MOTOR - RENEW

ALL DERIVATIVES

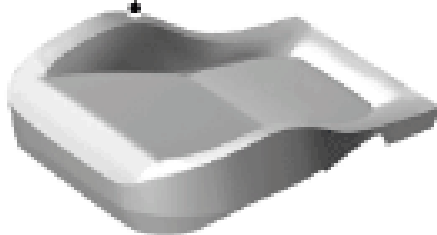
76.70.15/82



86.75.55/82  
86.75.44/82

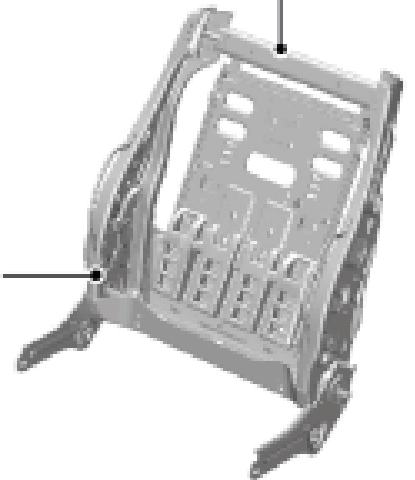


76.70.33/82



76.70

86.75.04/82



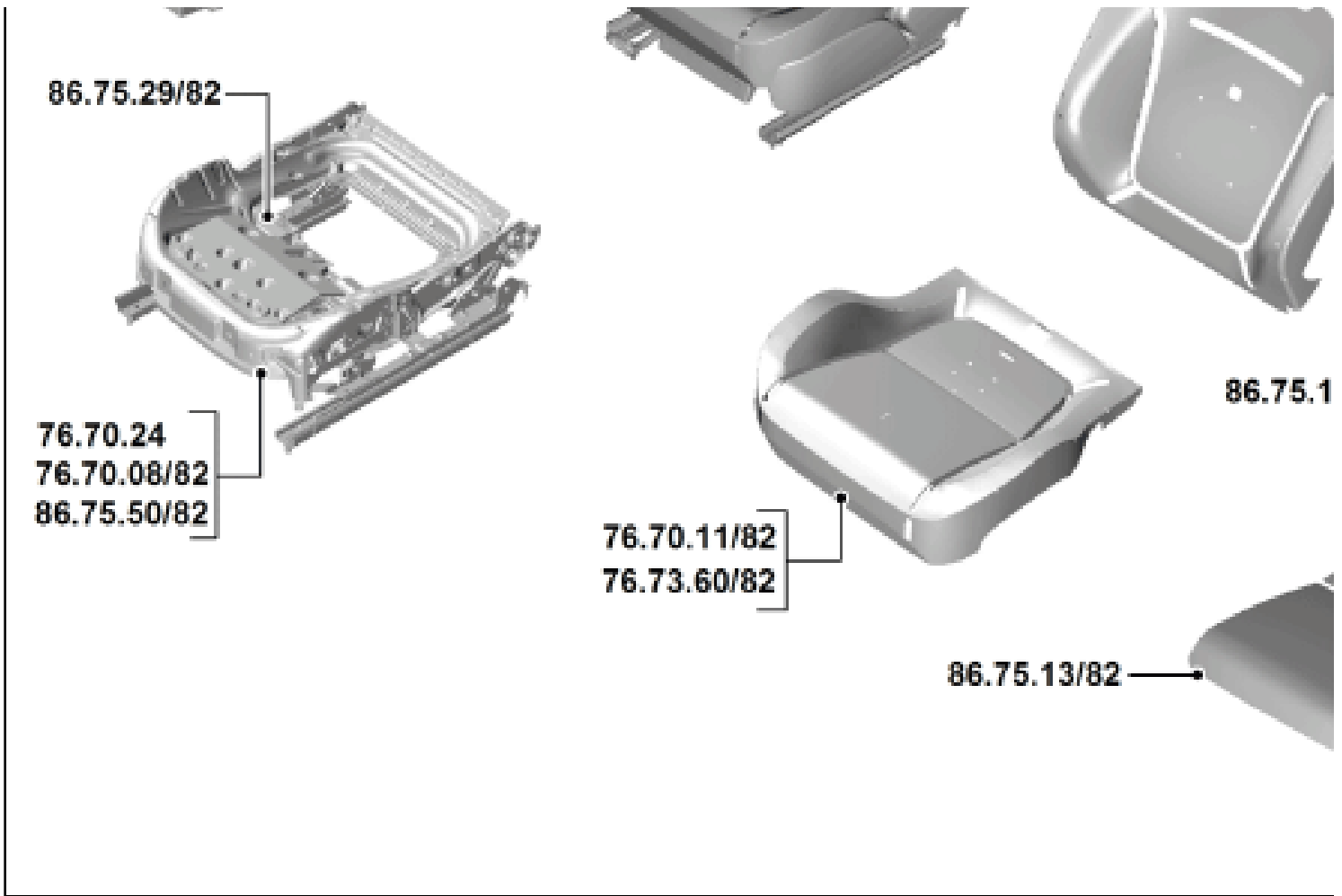
76.70.01/82



76.70.18/82







General Equipment

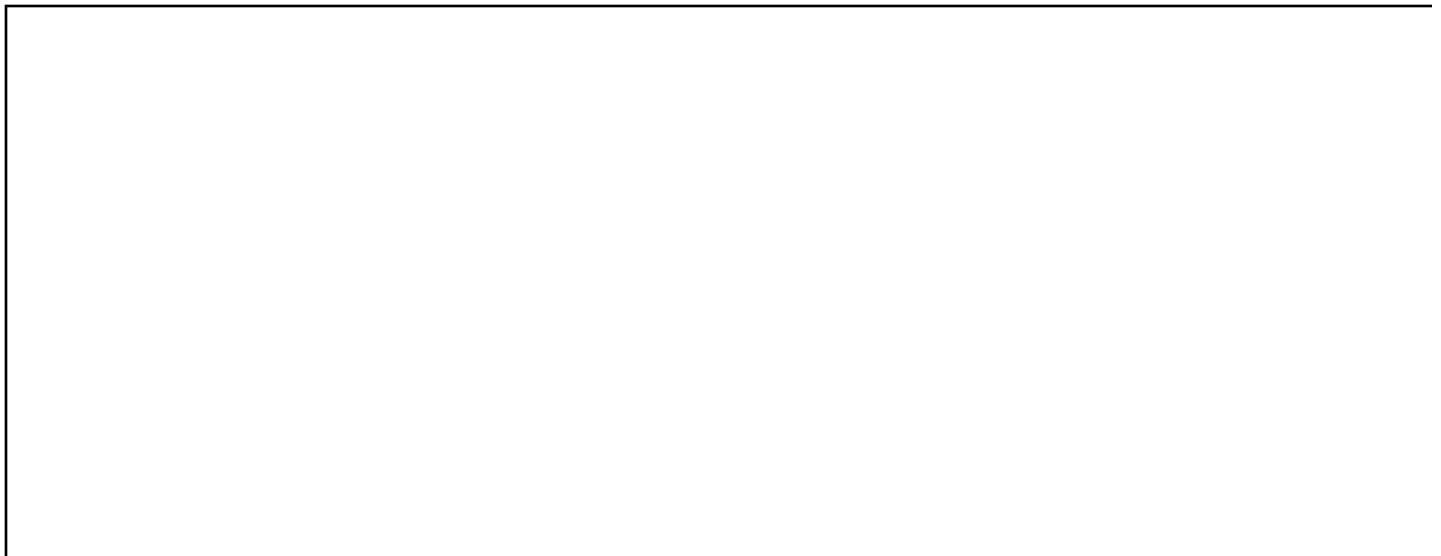
EQUIPMENT NAME	
Transmission jack	

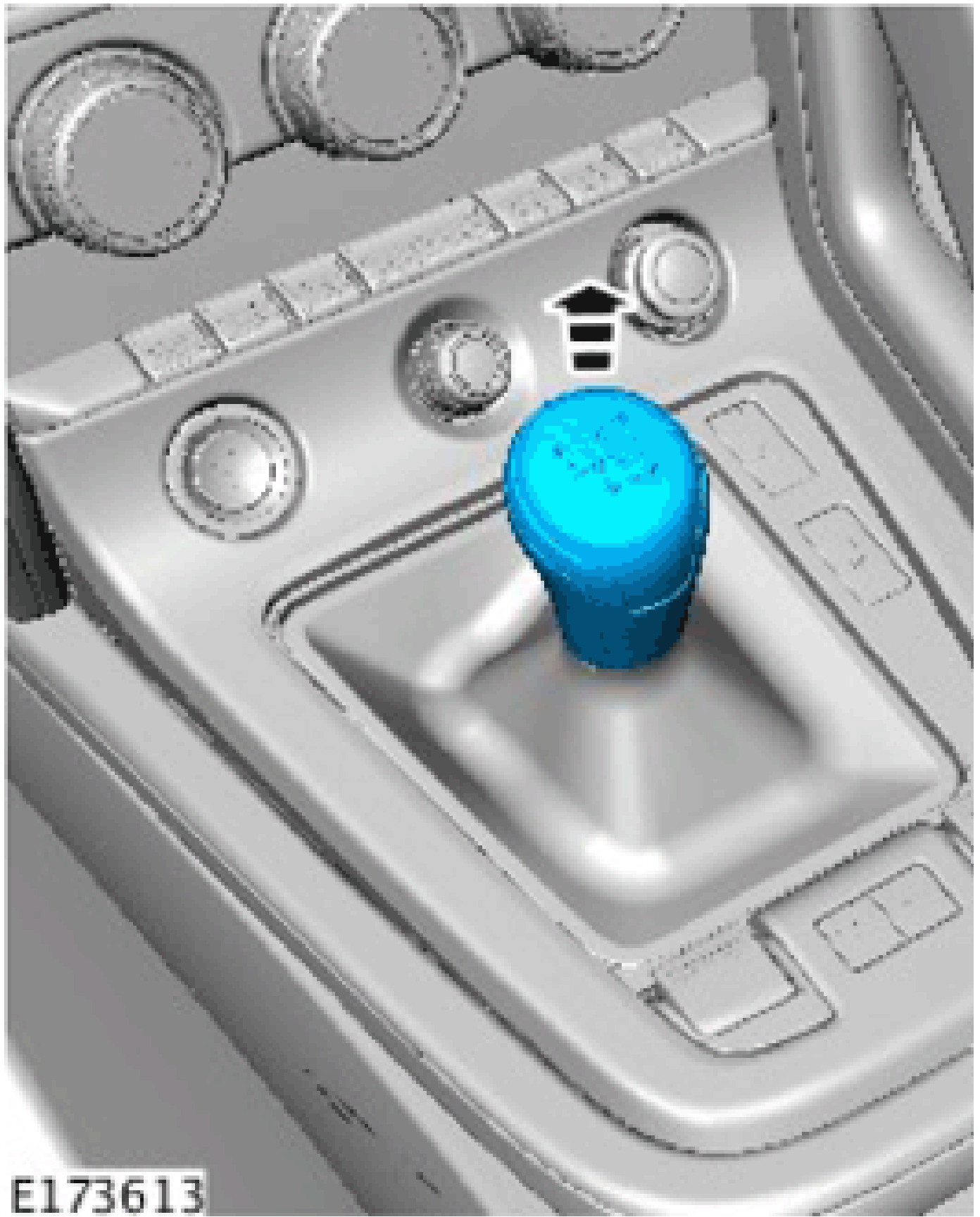
Removal

**NOTE:**

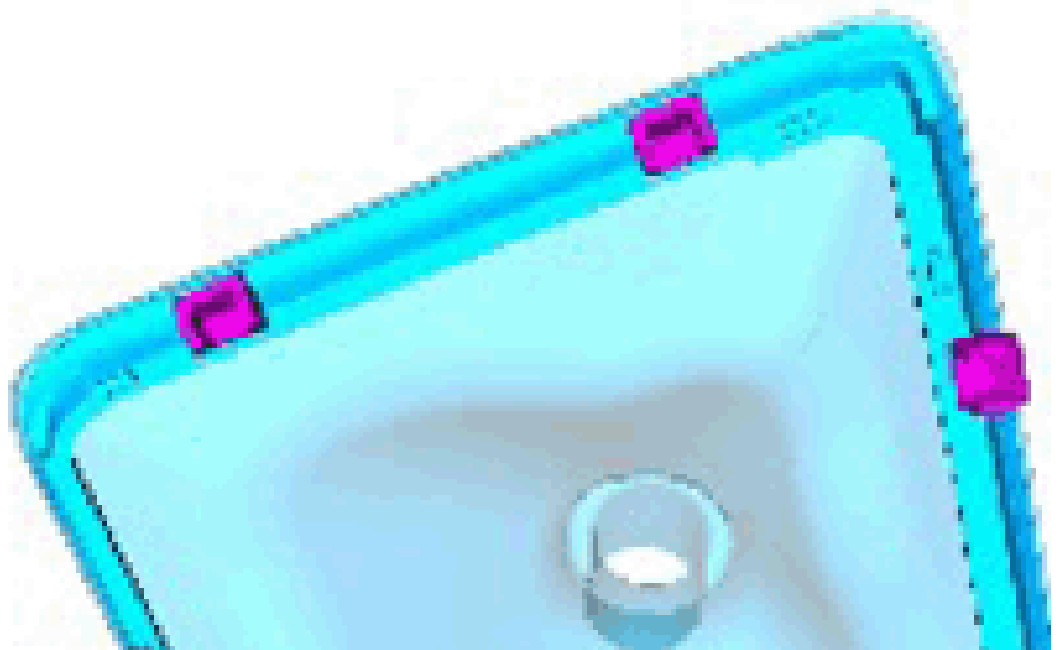
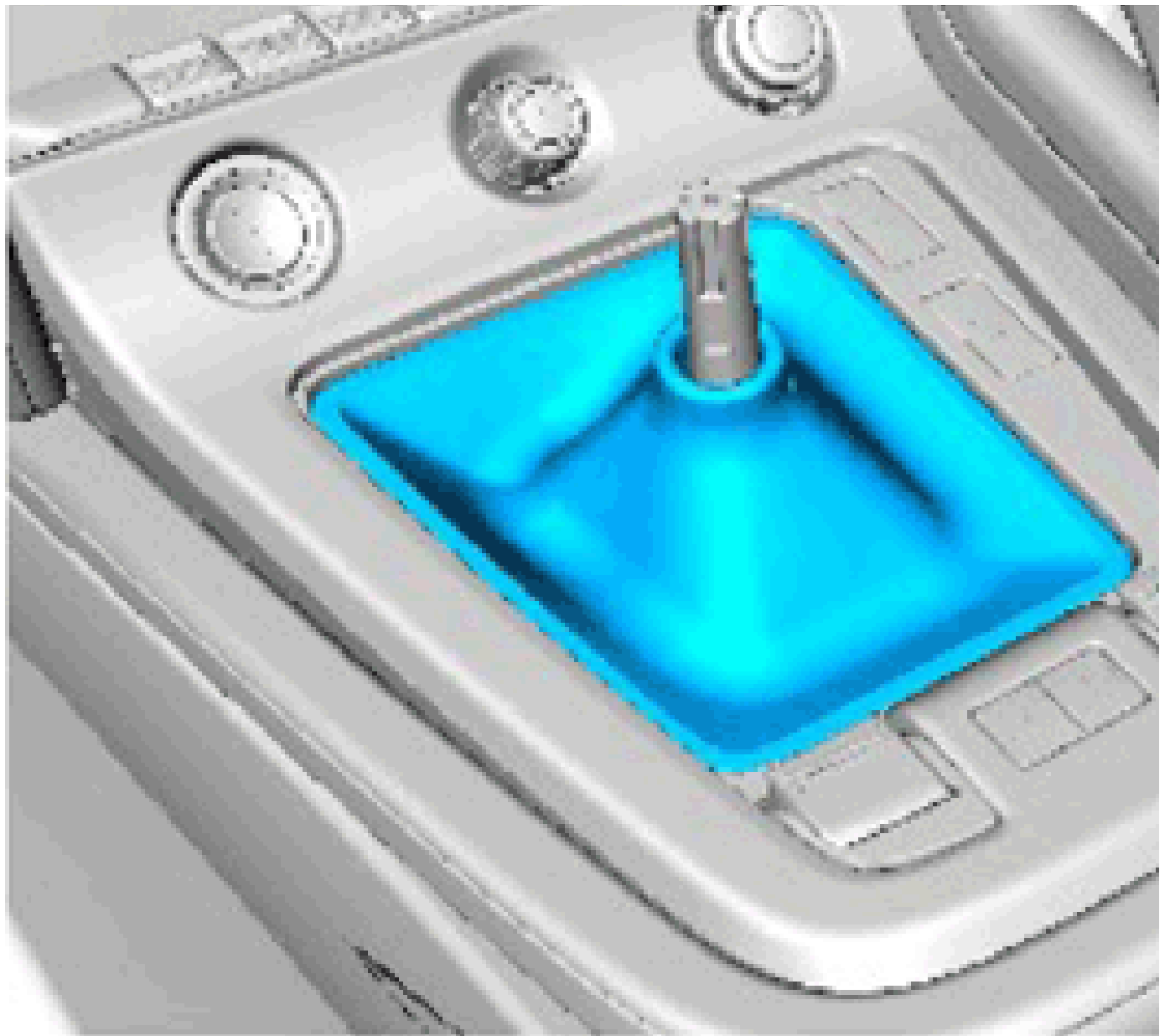
- Some variation in the illustrations may occur, but the essential information is always correct.
- Some illustrations may show the transmission removed for clarity.

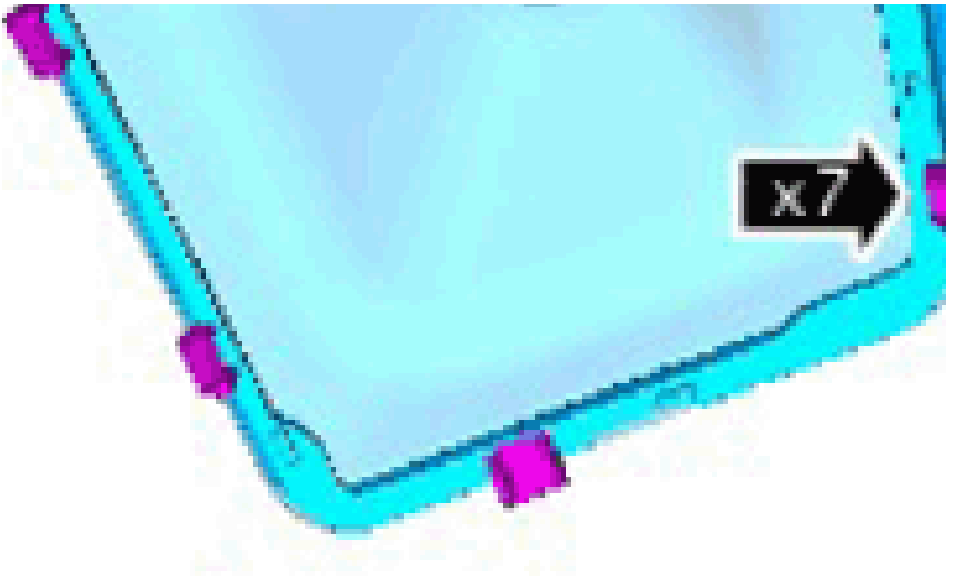
1. Refer to: [Battery Disconnect and Connect](#) (General Procedures).
2. **WARNING:** The selector lever knob will be released suddenly, keep face clear during removal.





3. **CAUTION:** Care must be taken to avoid damaging the surrounding components.

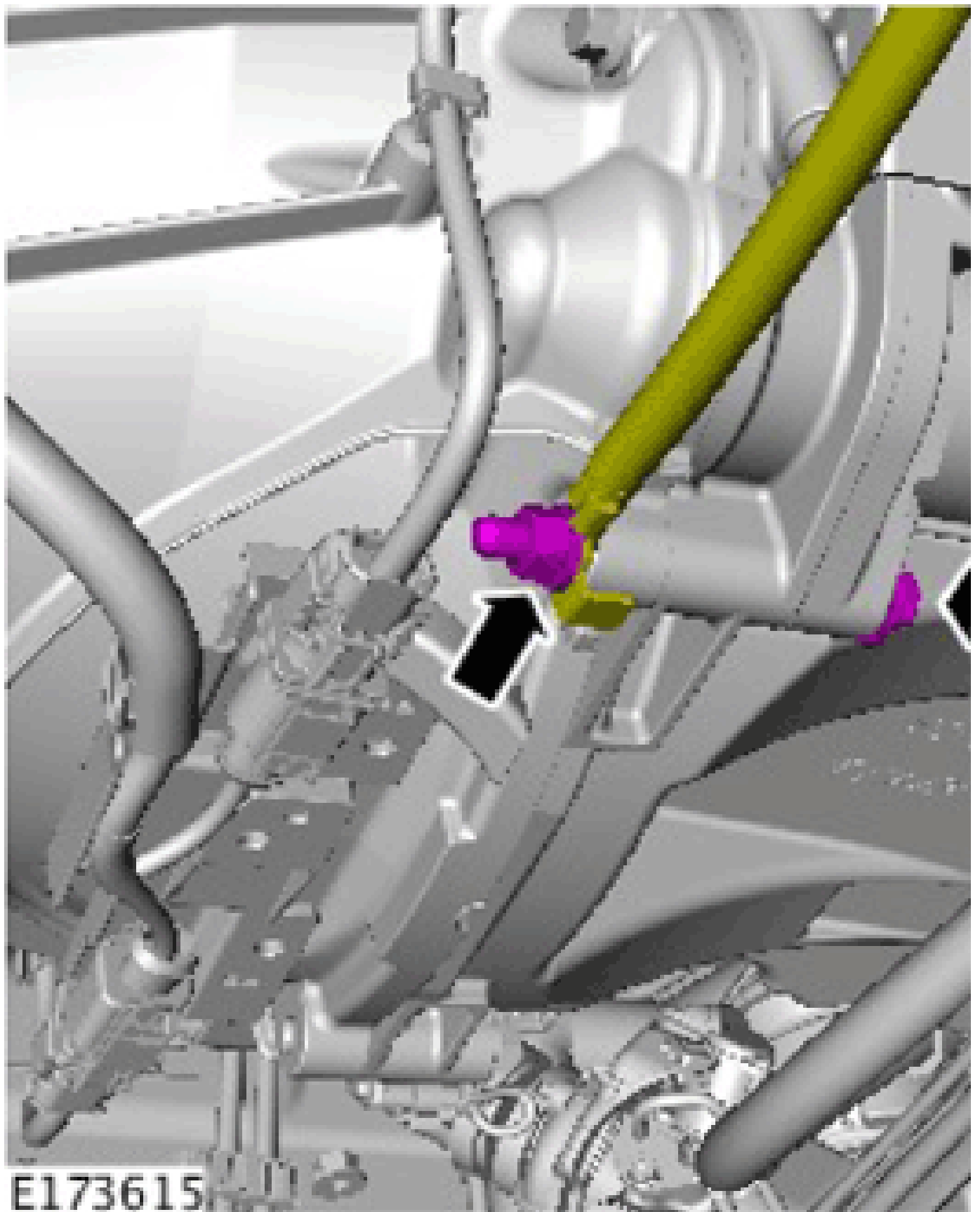




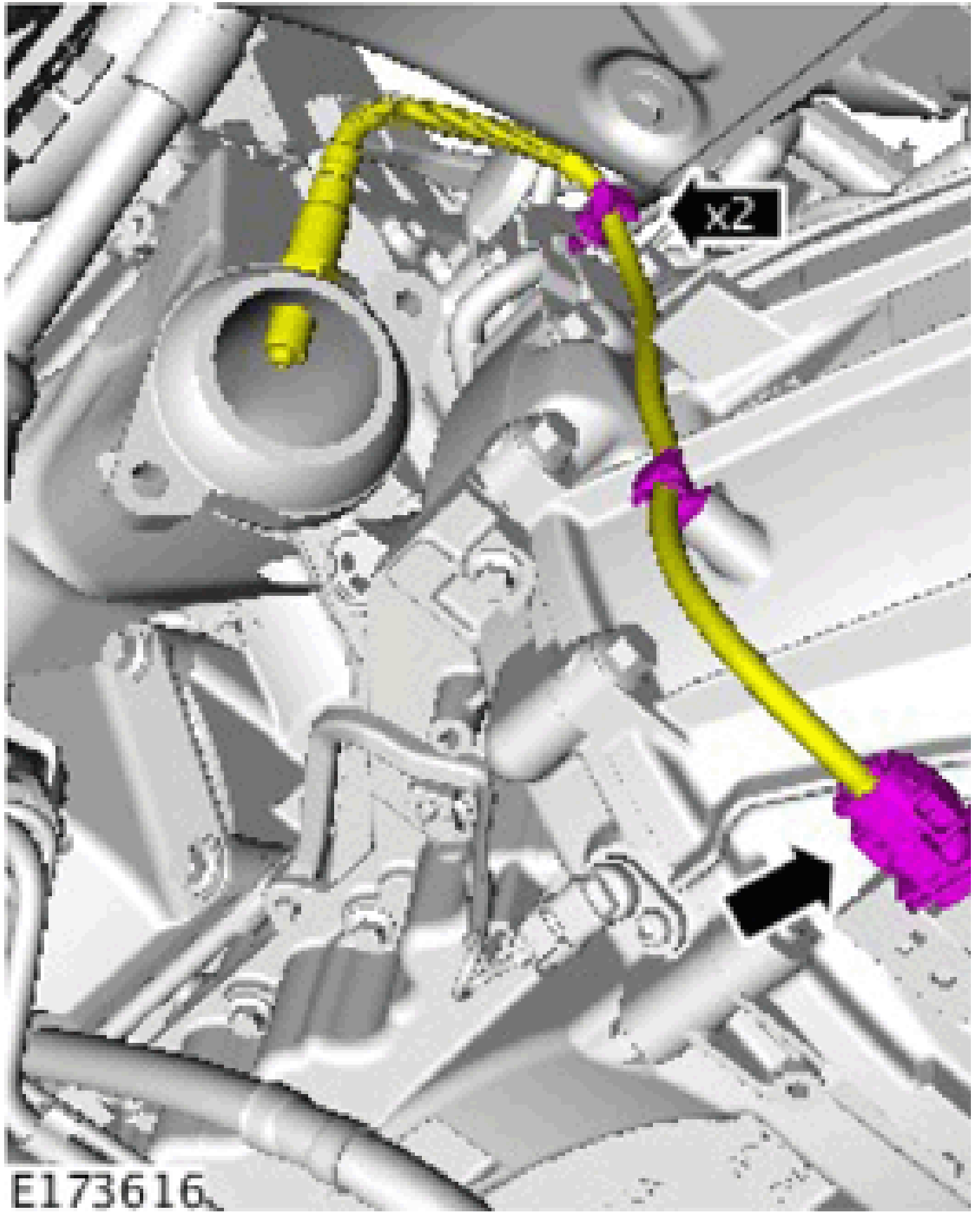
E173614

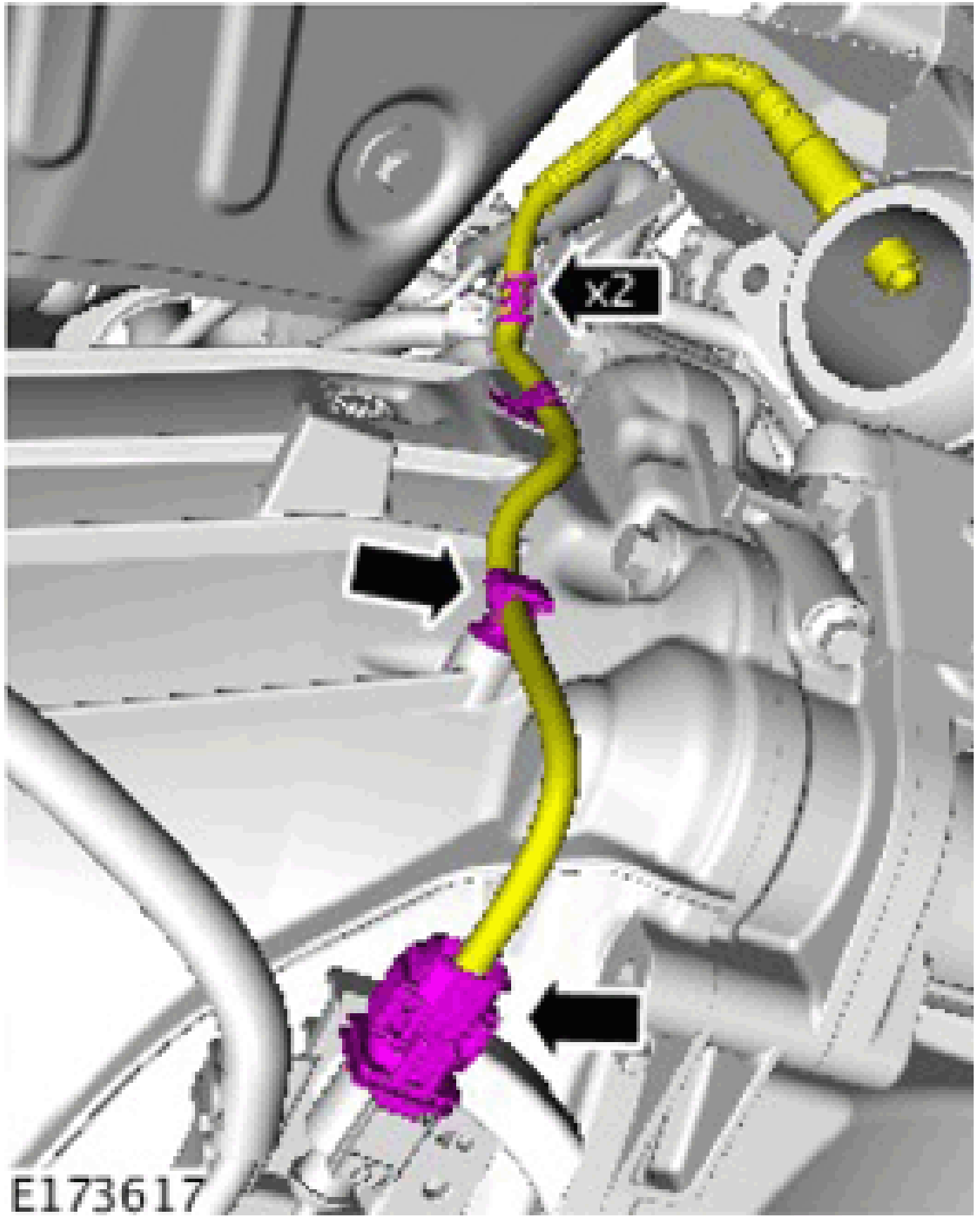
4. Refer to: [DRIVESHAFT - RWD](#) (Removal and Installation).

5.



E173615



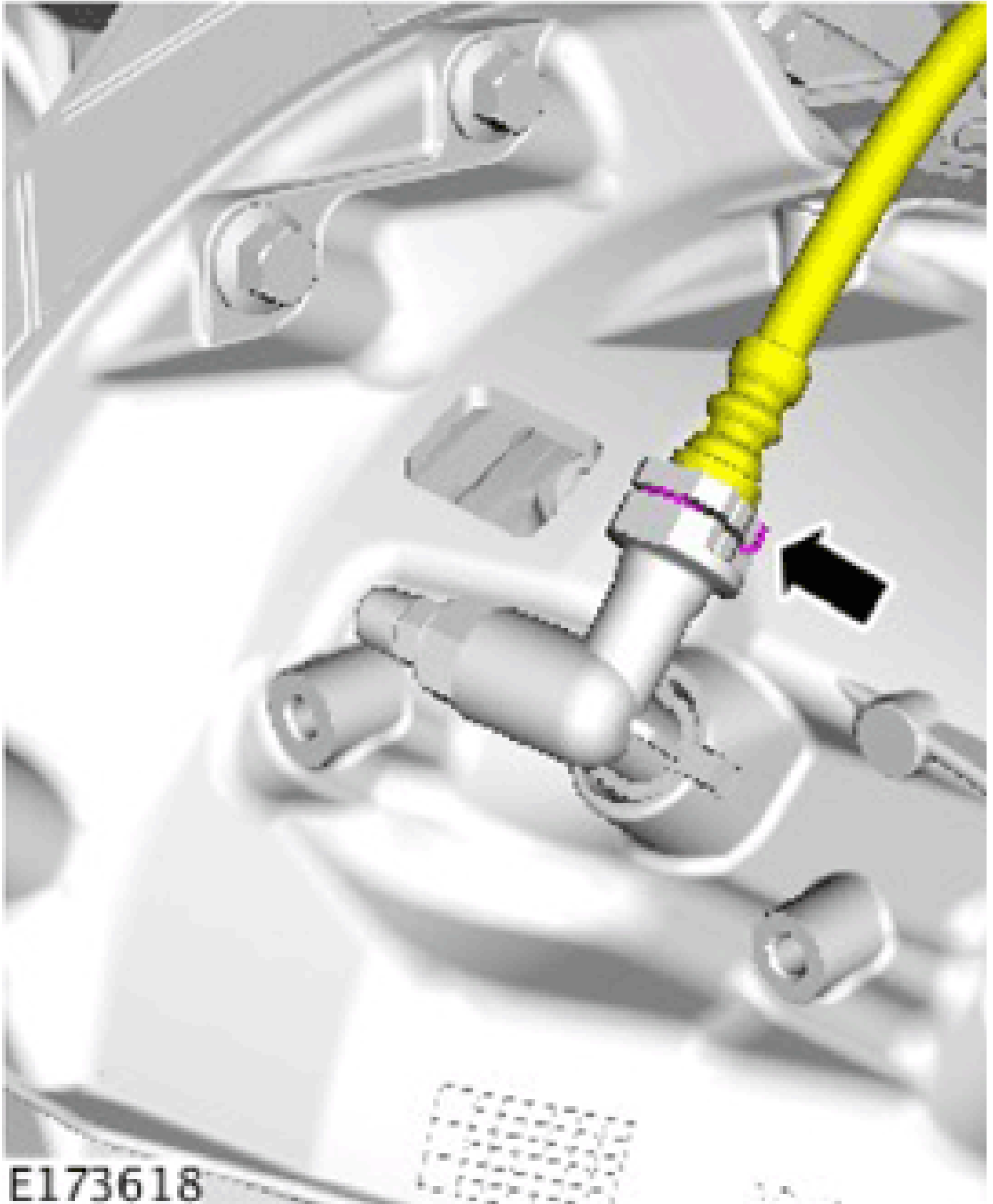


8. **WARNING:** Be prepared to collect escaping fluids.

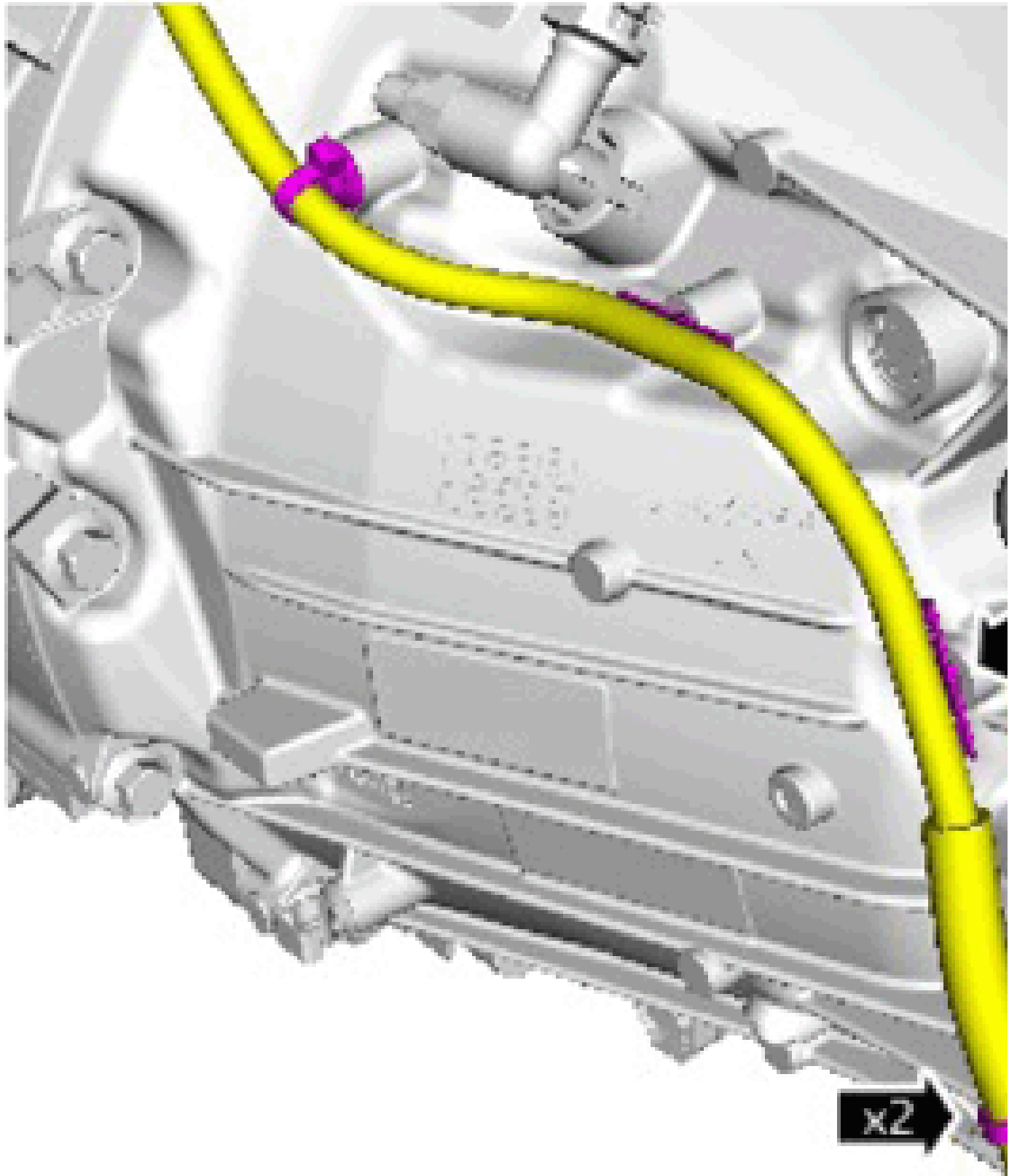
**CAUTION:** Brake fluid will damage paint finished surfaces. If spilled, immediately remove the fluid and clean the area with water.

**NOTE:**

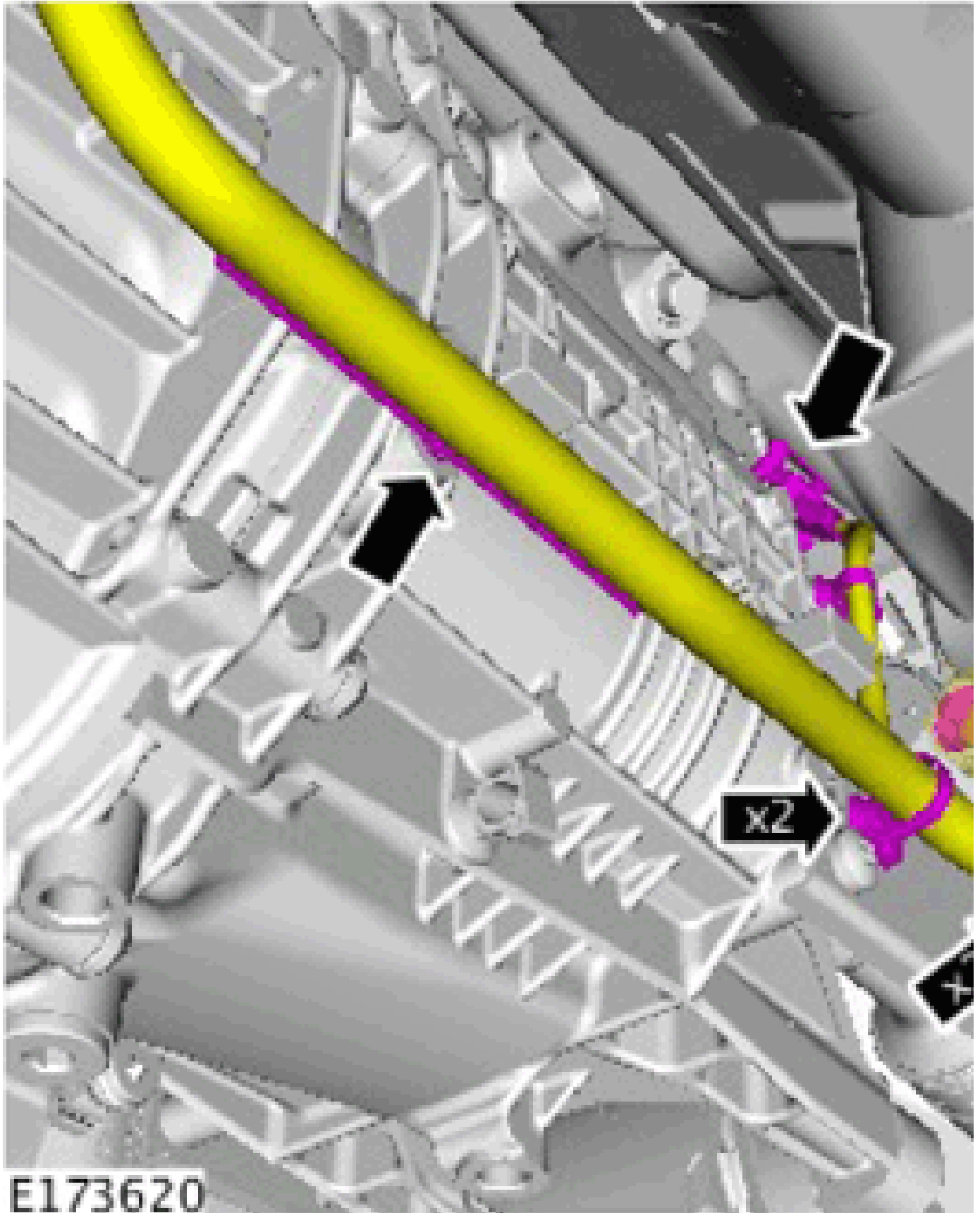
- Ensure the retaining clip is not removed.
- Make sure that all openings are sealed. Use new blanking caps.





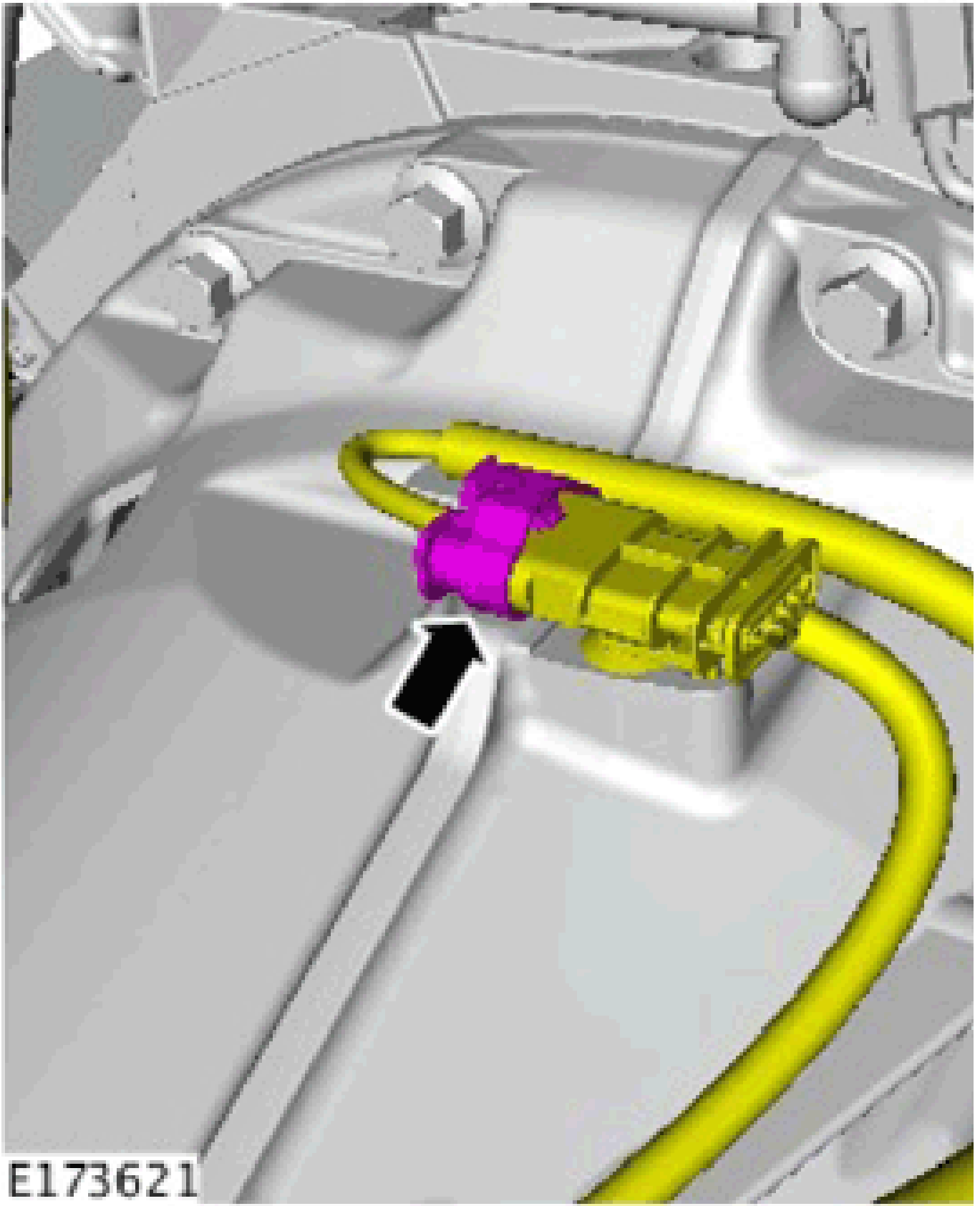


E173619

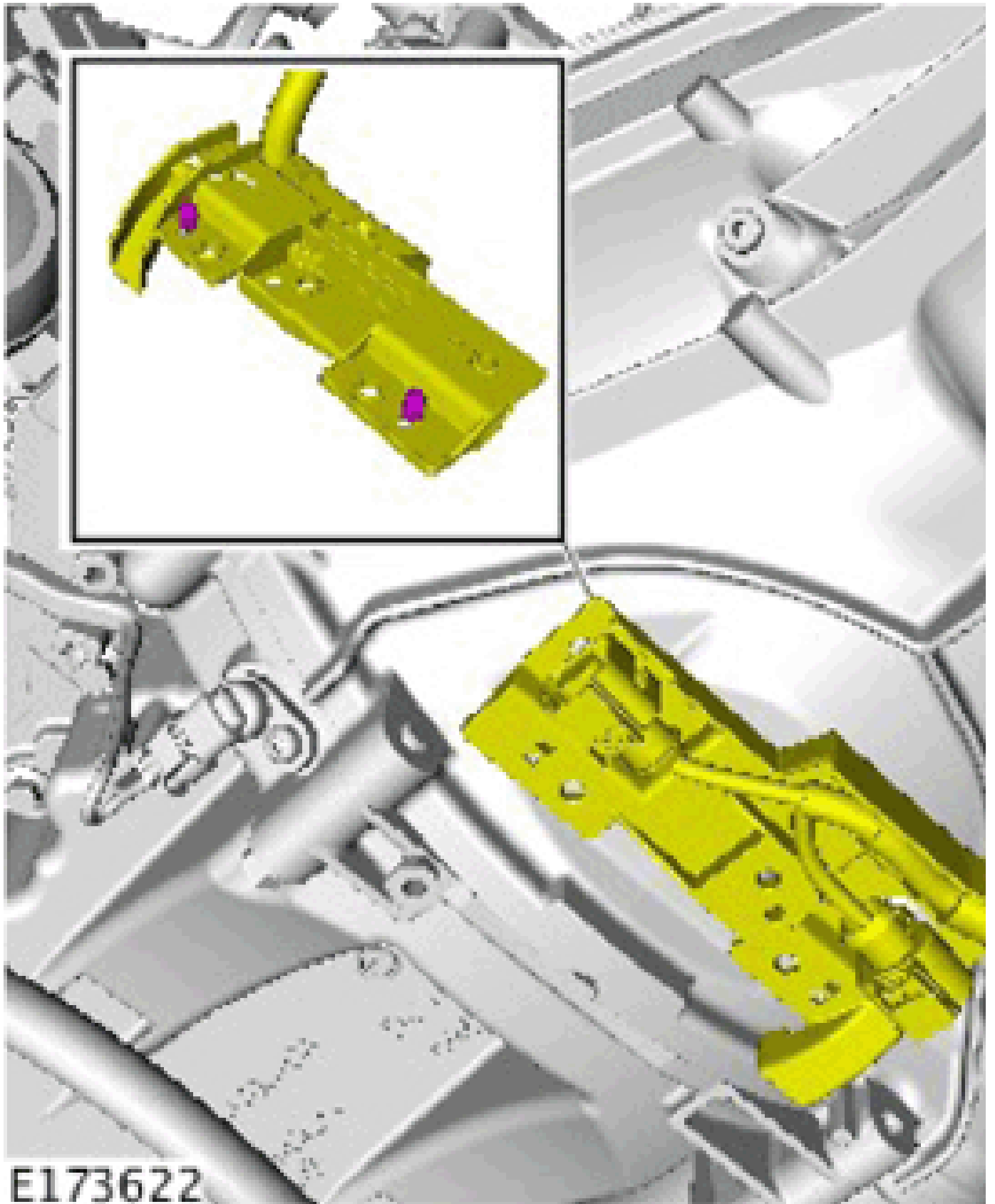


**CAUTION:** • Secure with cable ties.

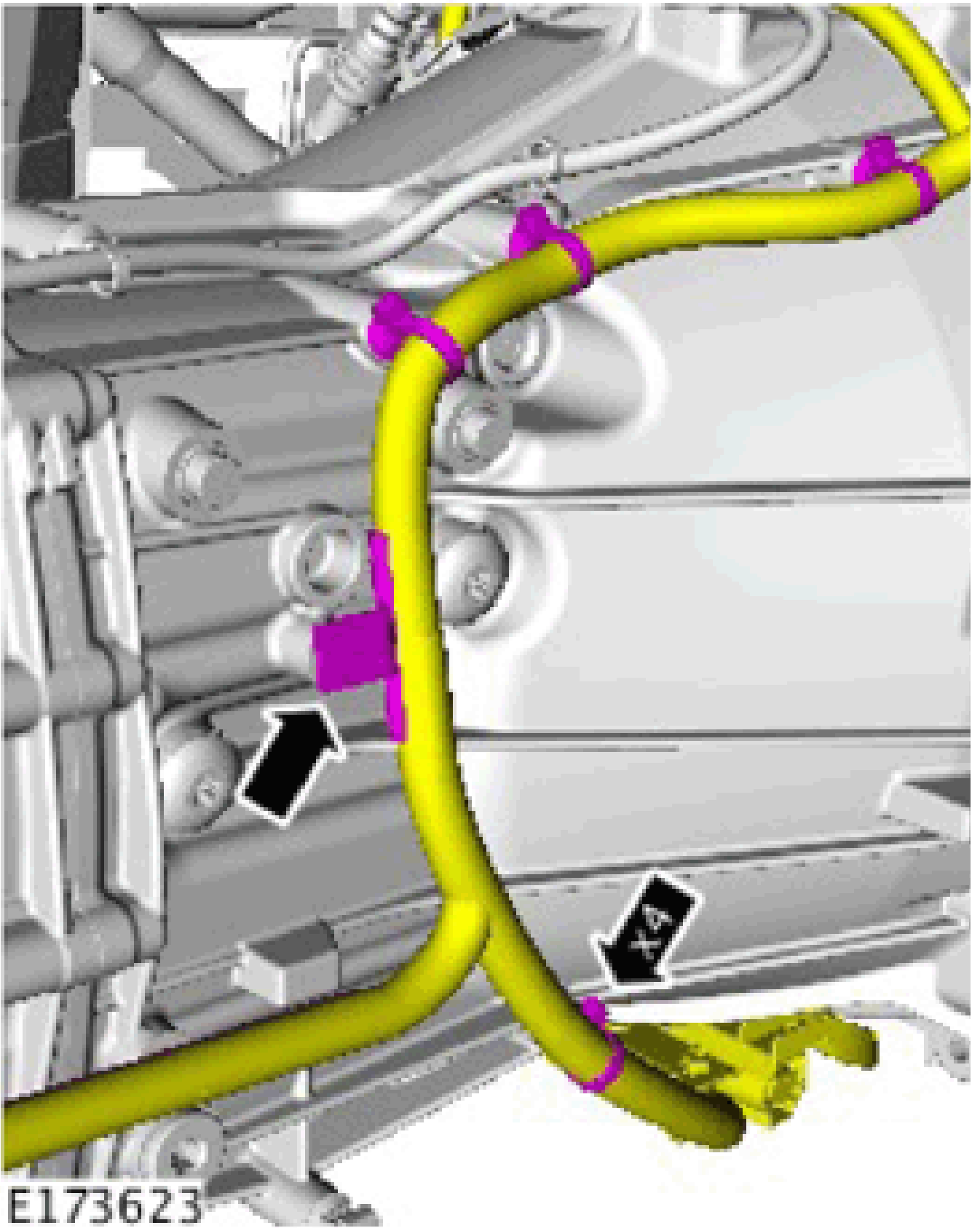
11.

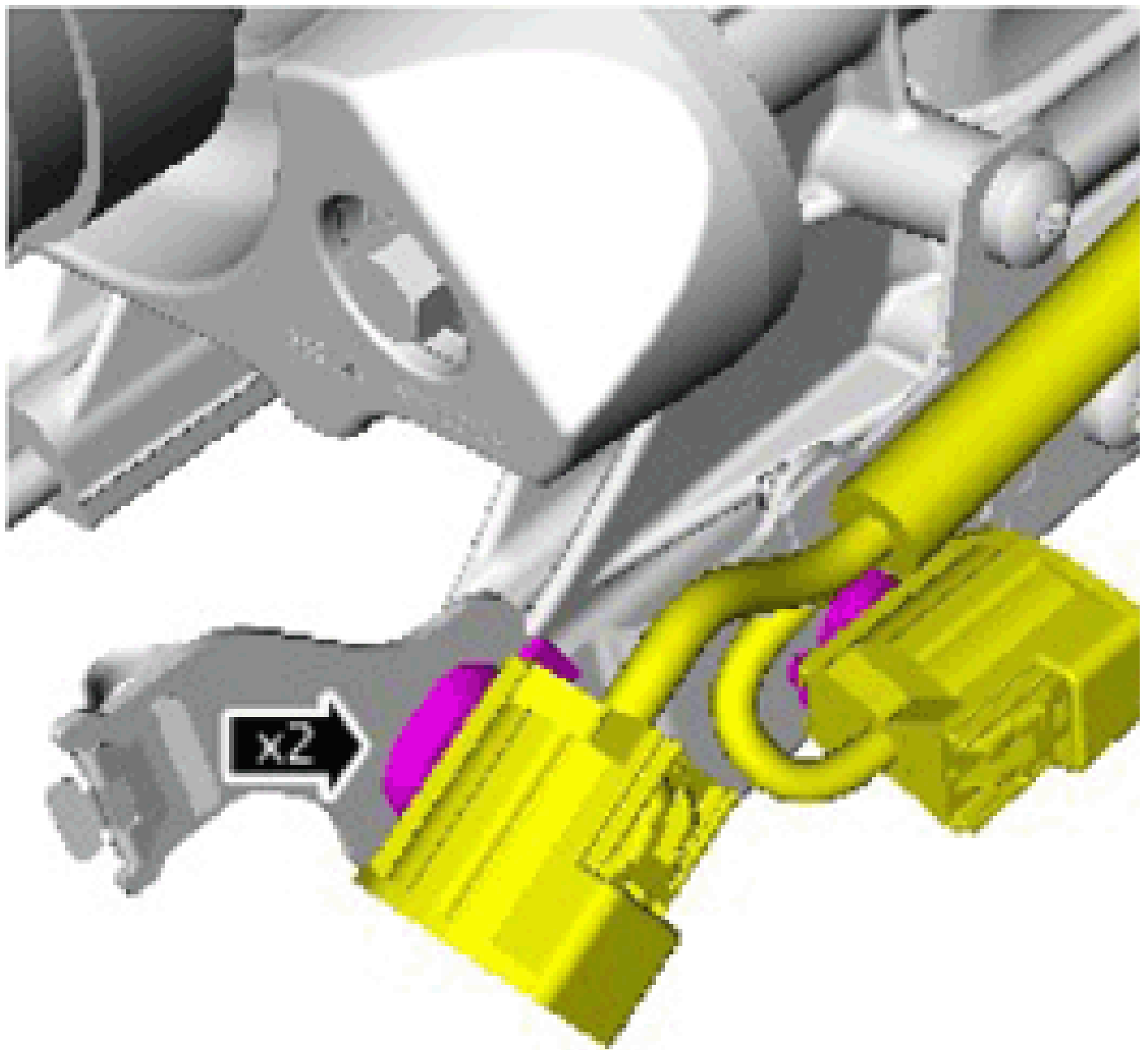


12.



E173622

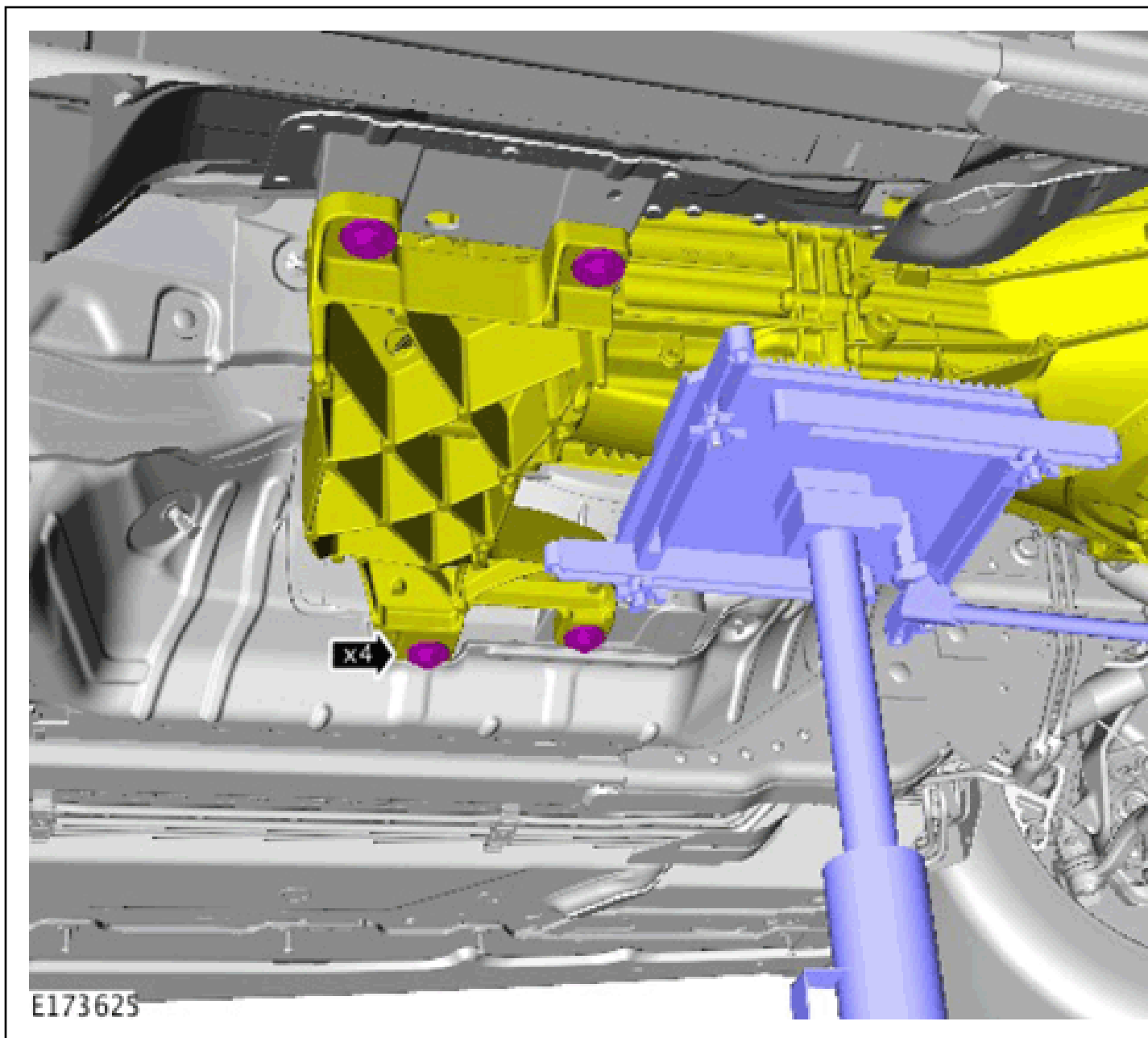




E173624

CAUTION: • Secure with cable ties.

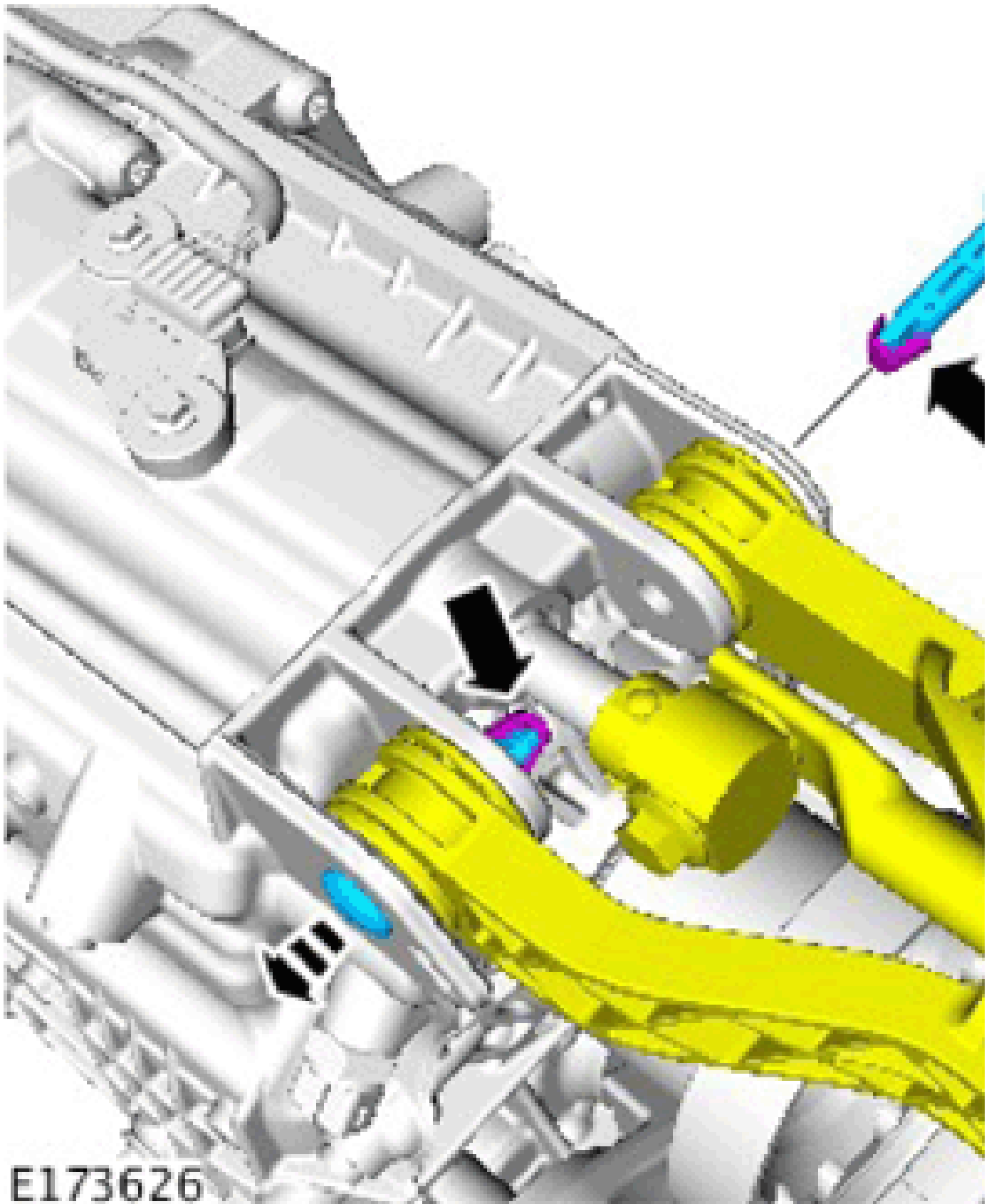
15. **WARNING:** Make sure that the transmission is secured with suitable retaining straps.



- *General Equipment:* Transmission jack

16. **CAUTION:** Discard the components.

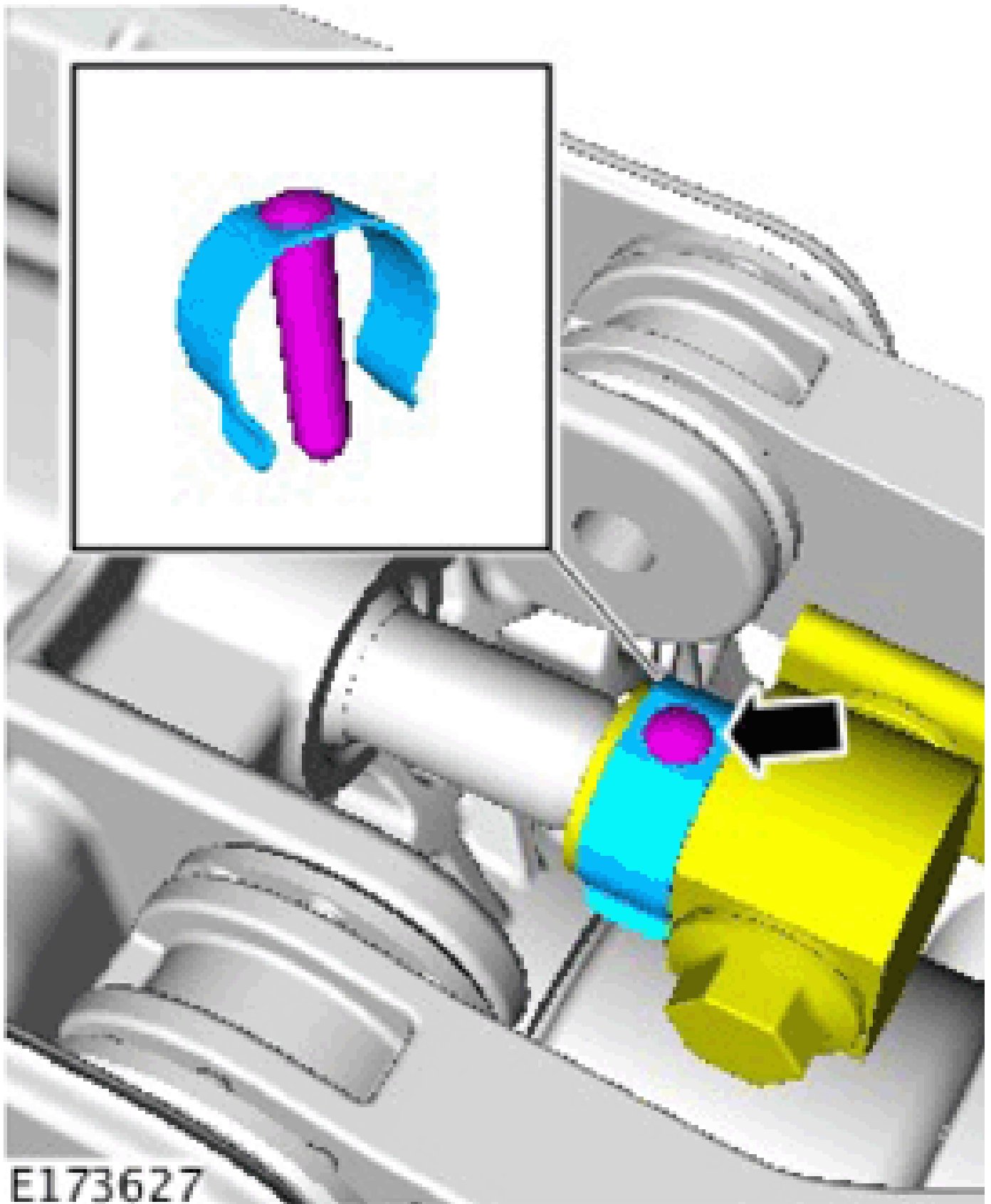


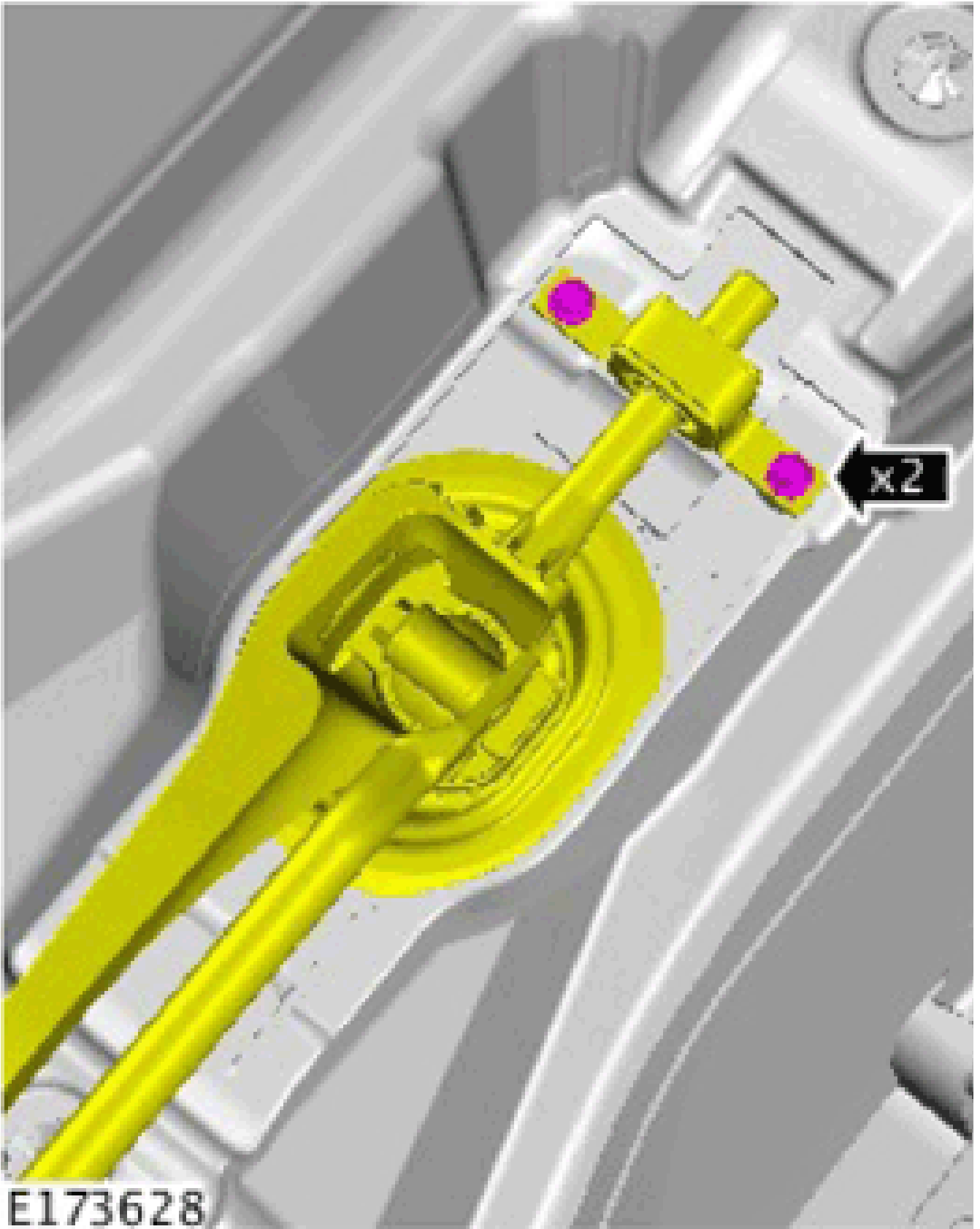


E173626

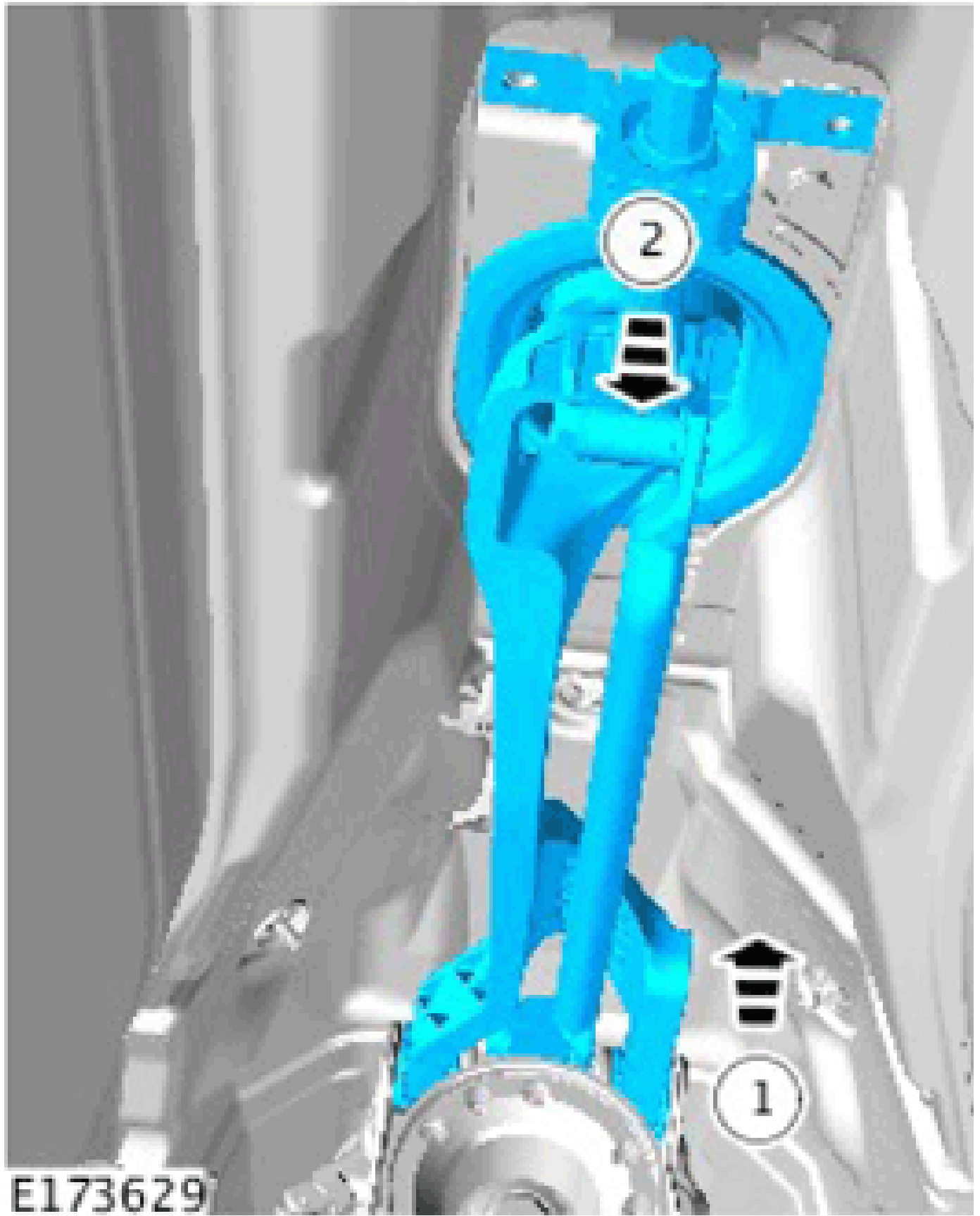
17. CAUTION: Discard the component.

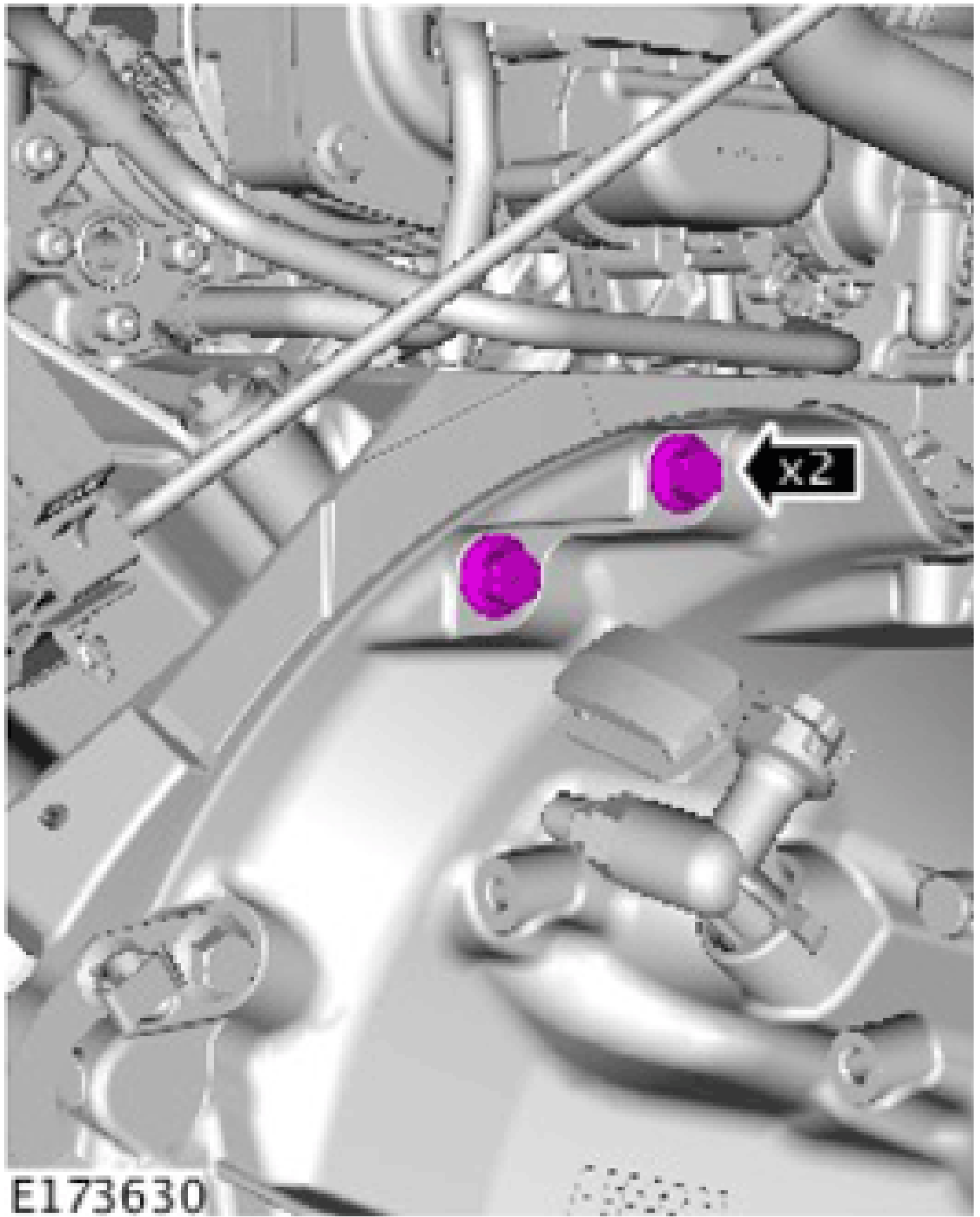




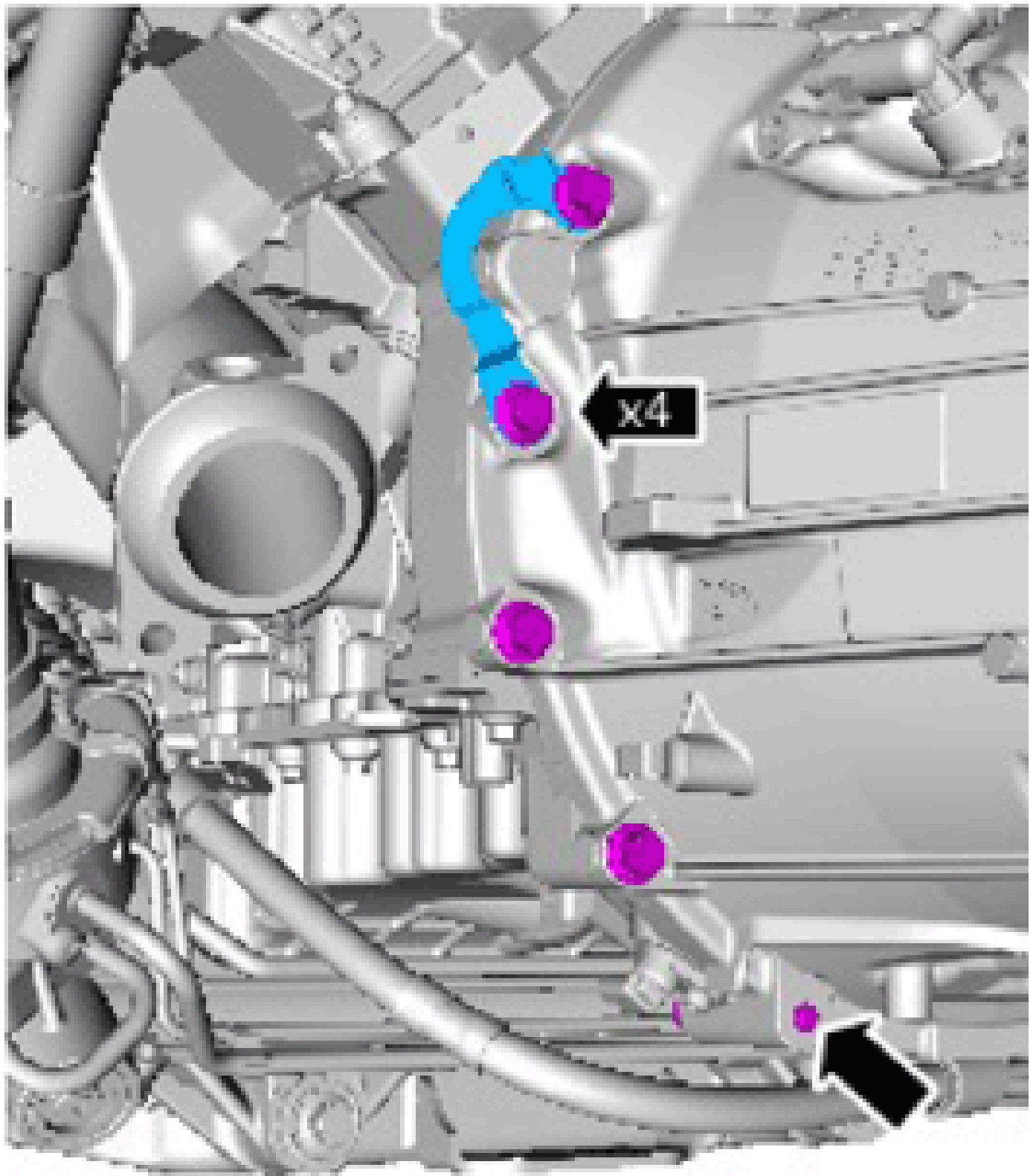


19. **NOTE:** Note the fitted position of the rubber mounts.

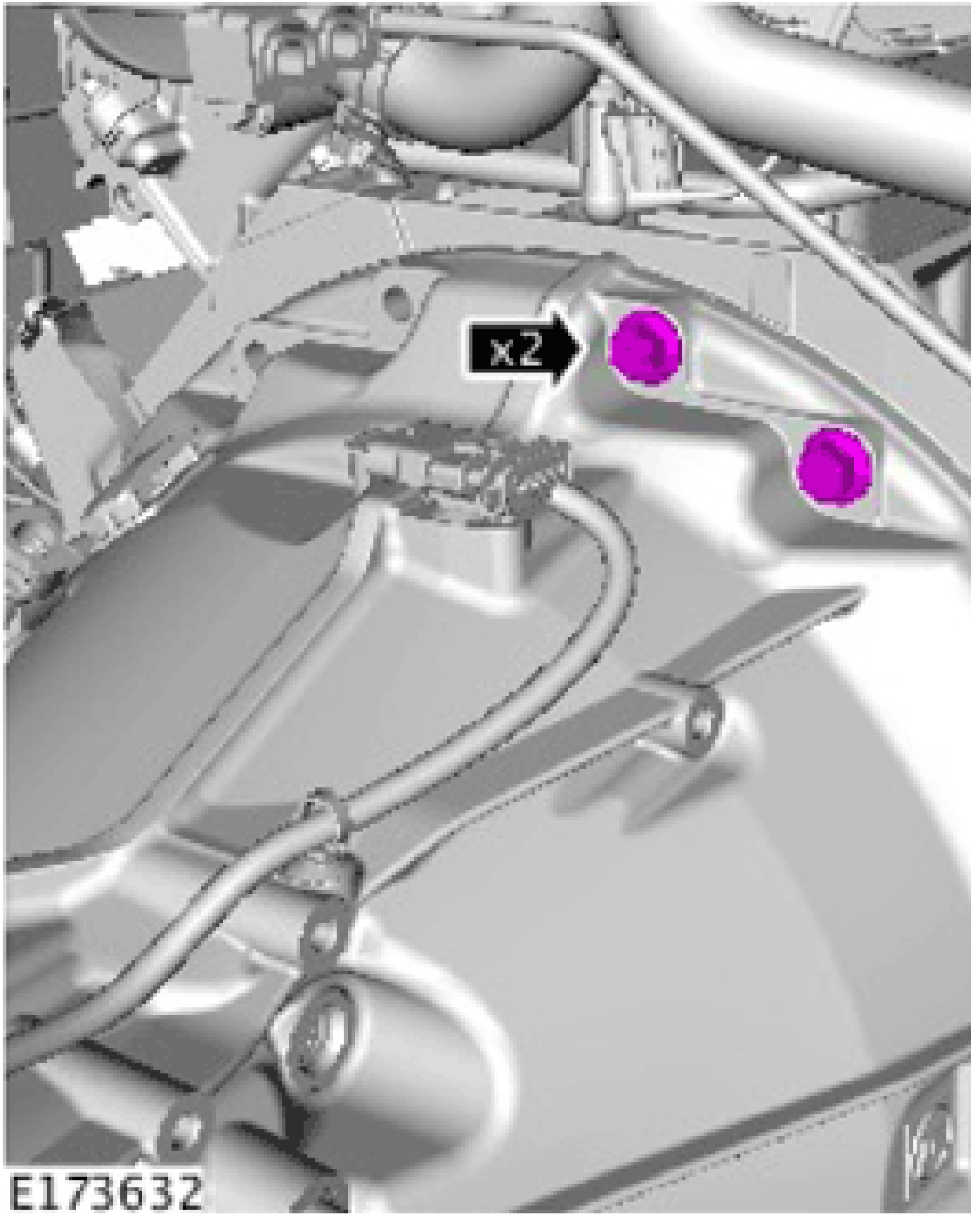


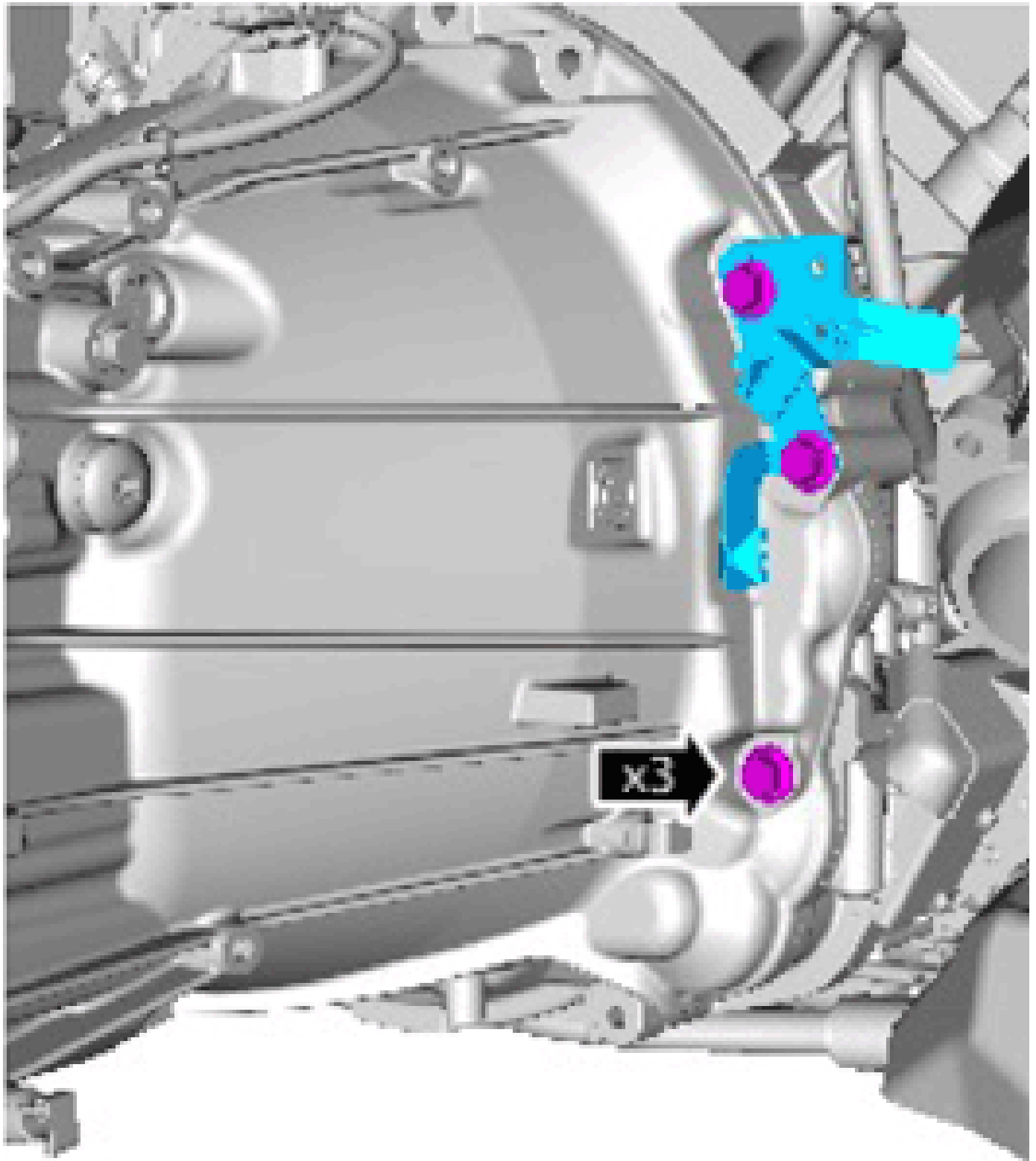


21. **NOTE:** Note the orientation of the component prior to removal.



E173631





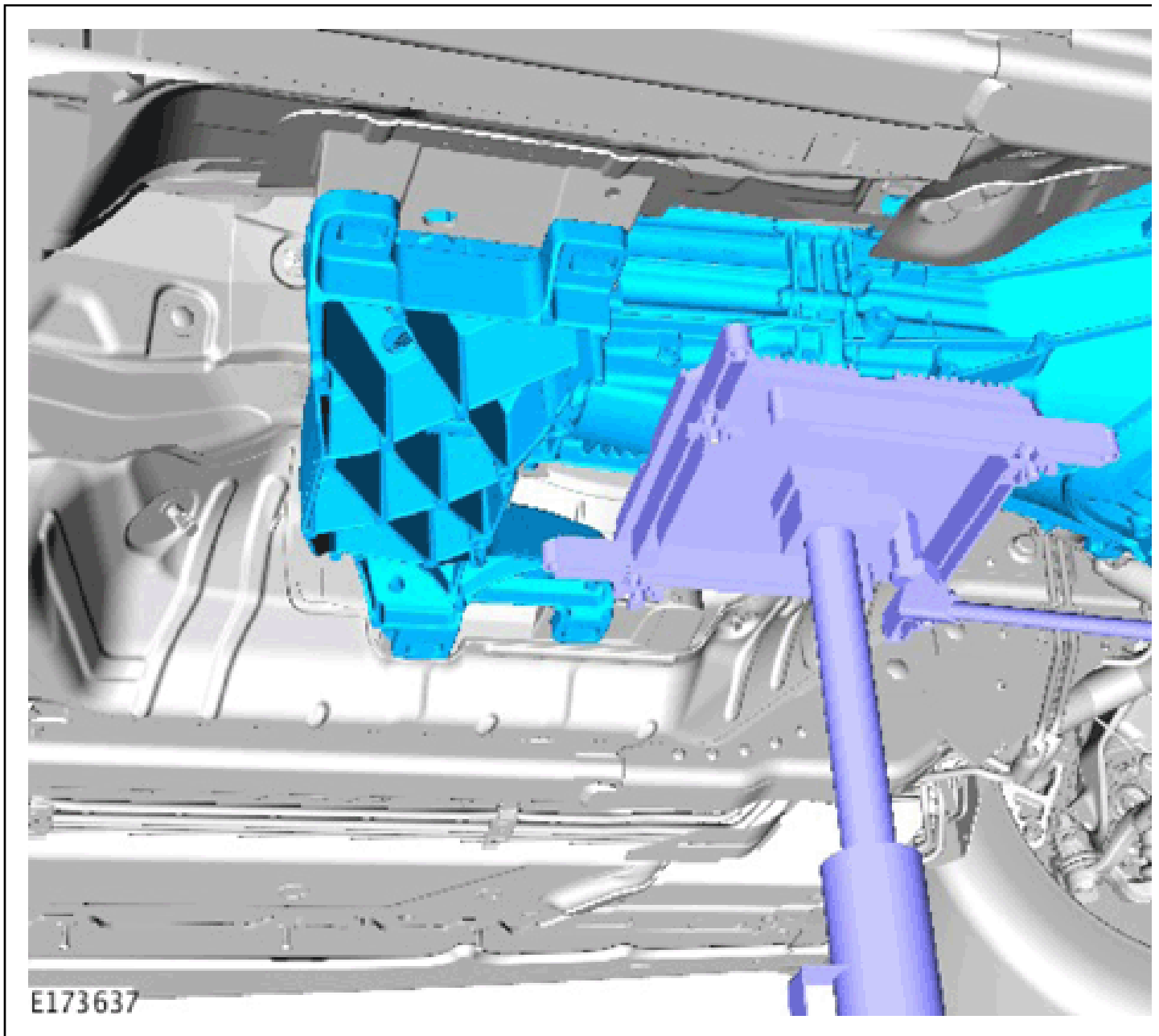
E173636

24. **WARNING:** This step requires the aid of another technician.

**CAUTION:**

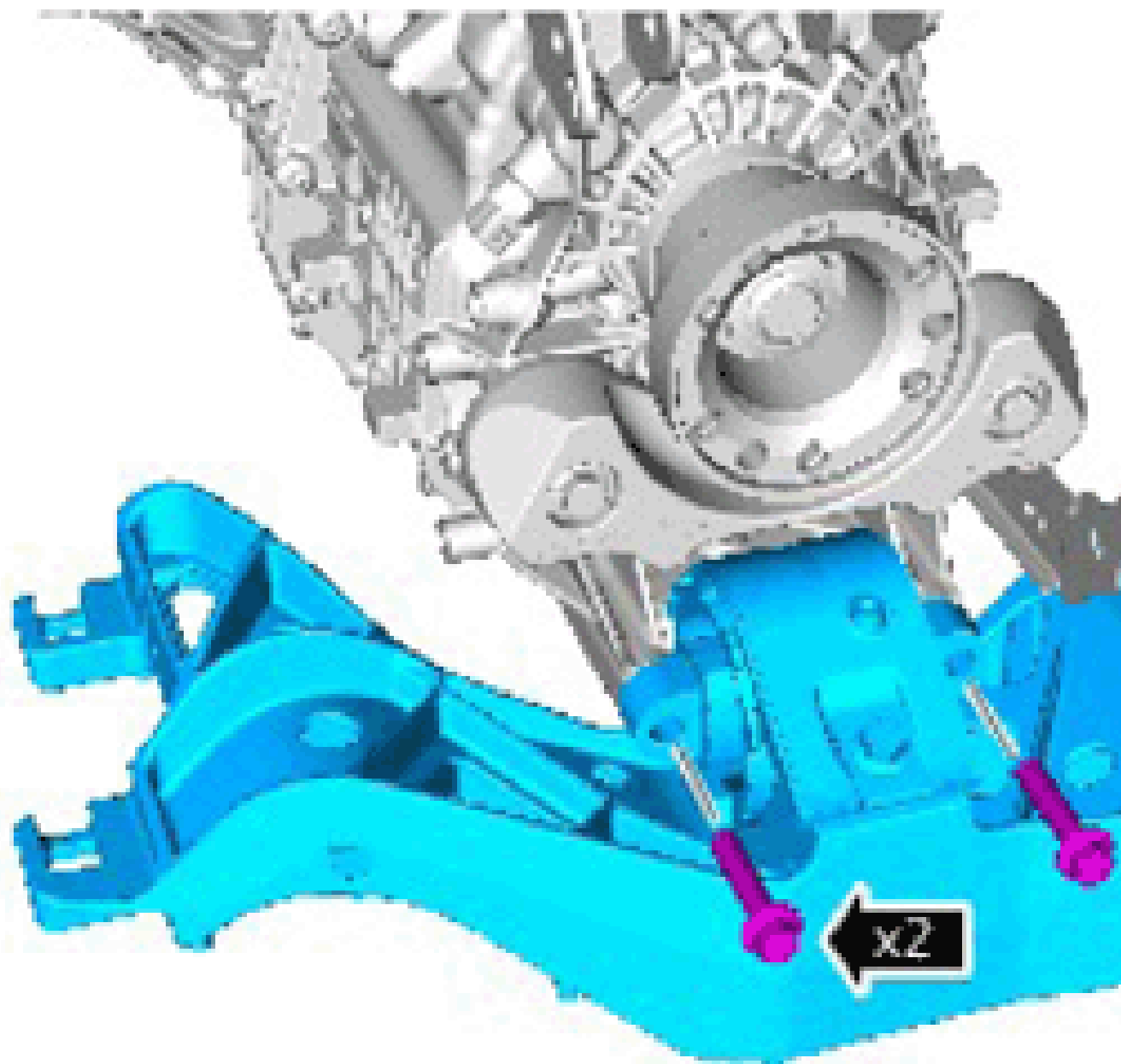
- Make sure that the dowels are still located on the engine and not the transmission.

- Care must be taken to avoid damaging the surrounding components.



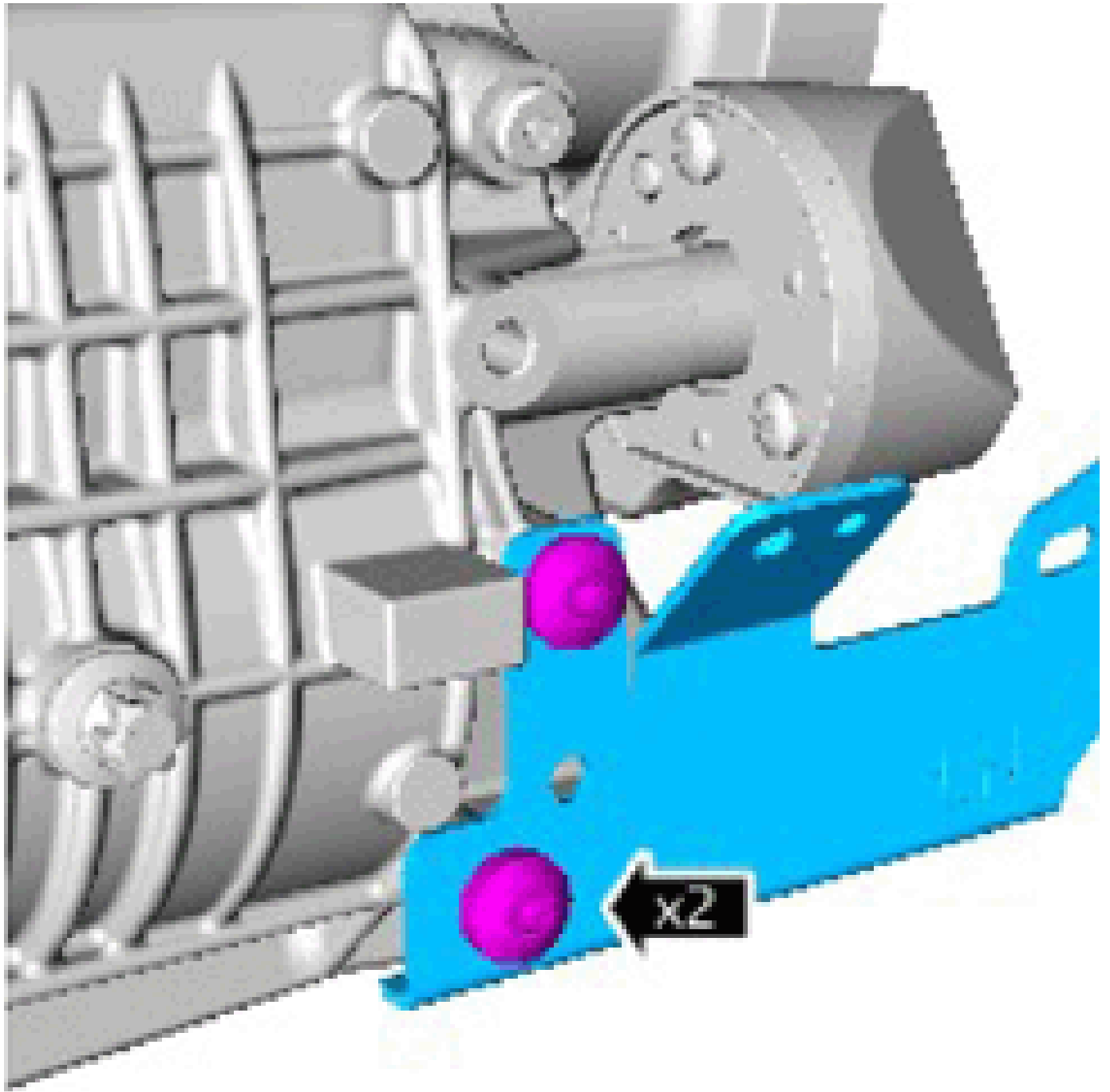
25. **NOTE:** Do not disassemble further if the component is removed for access only.



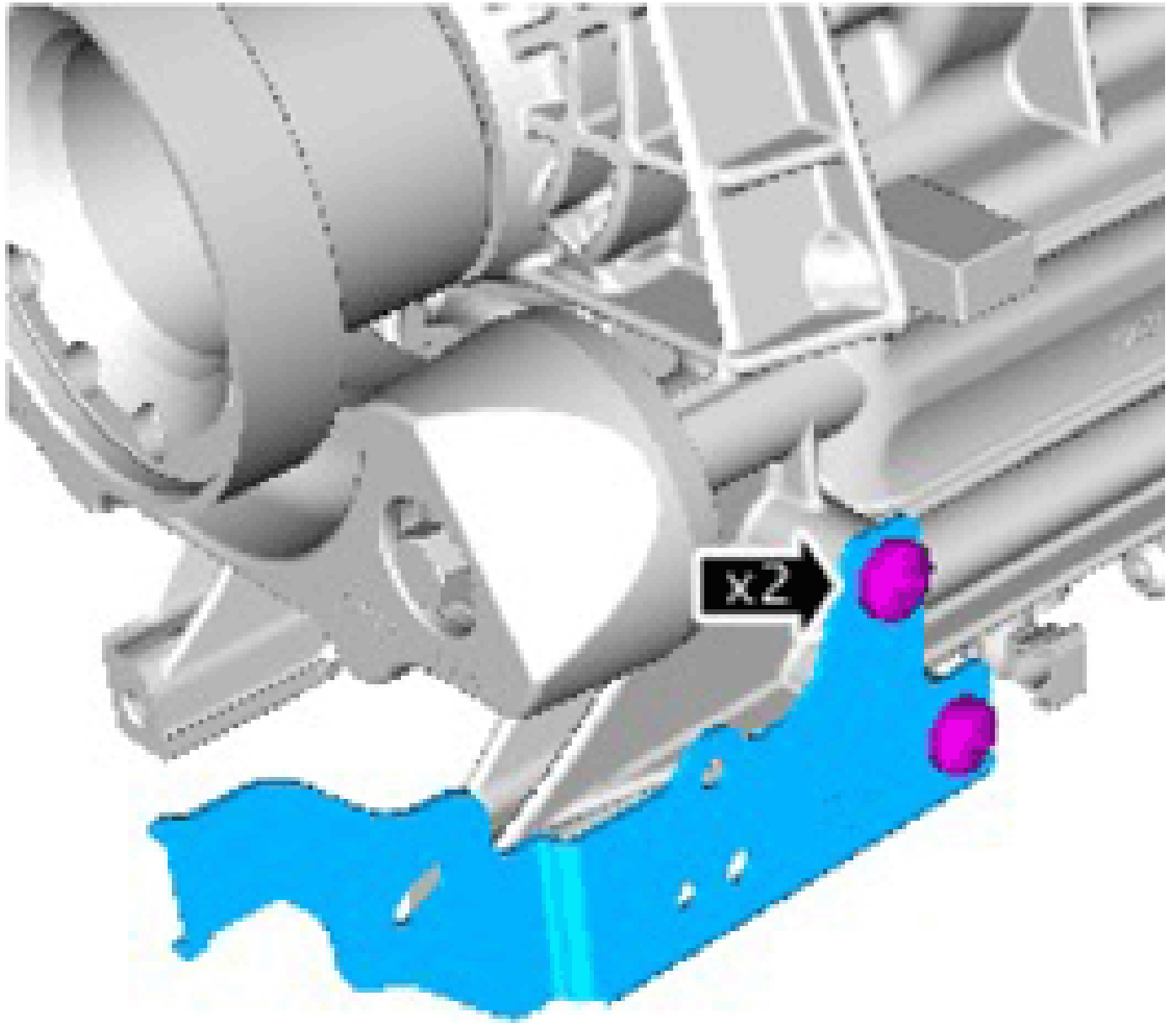


E173638



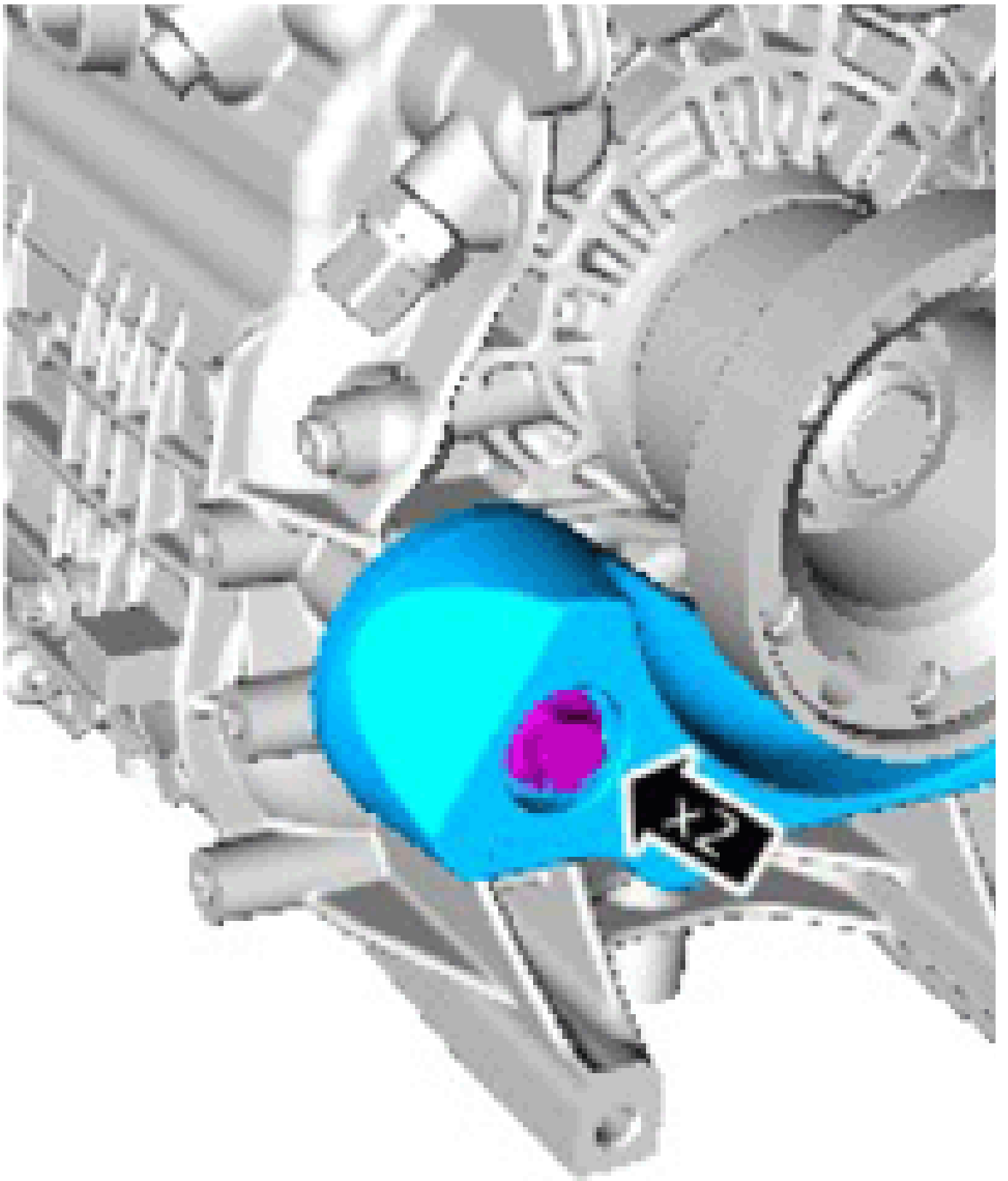


E173639



**E173640**

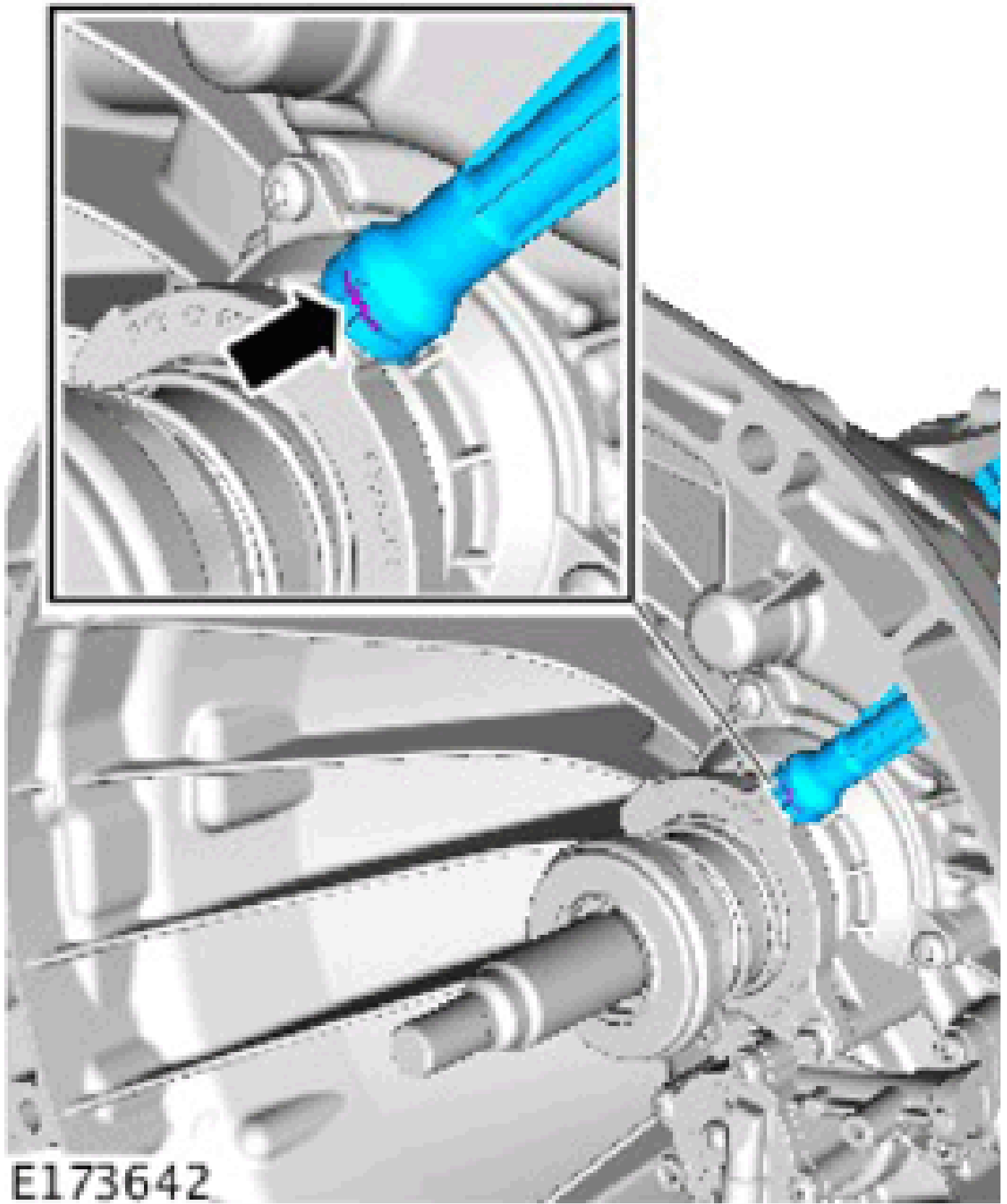




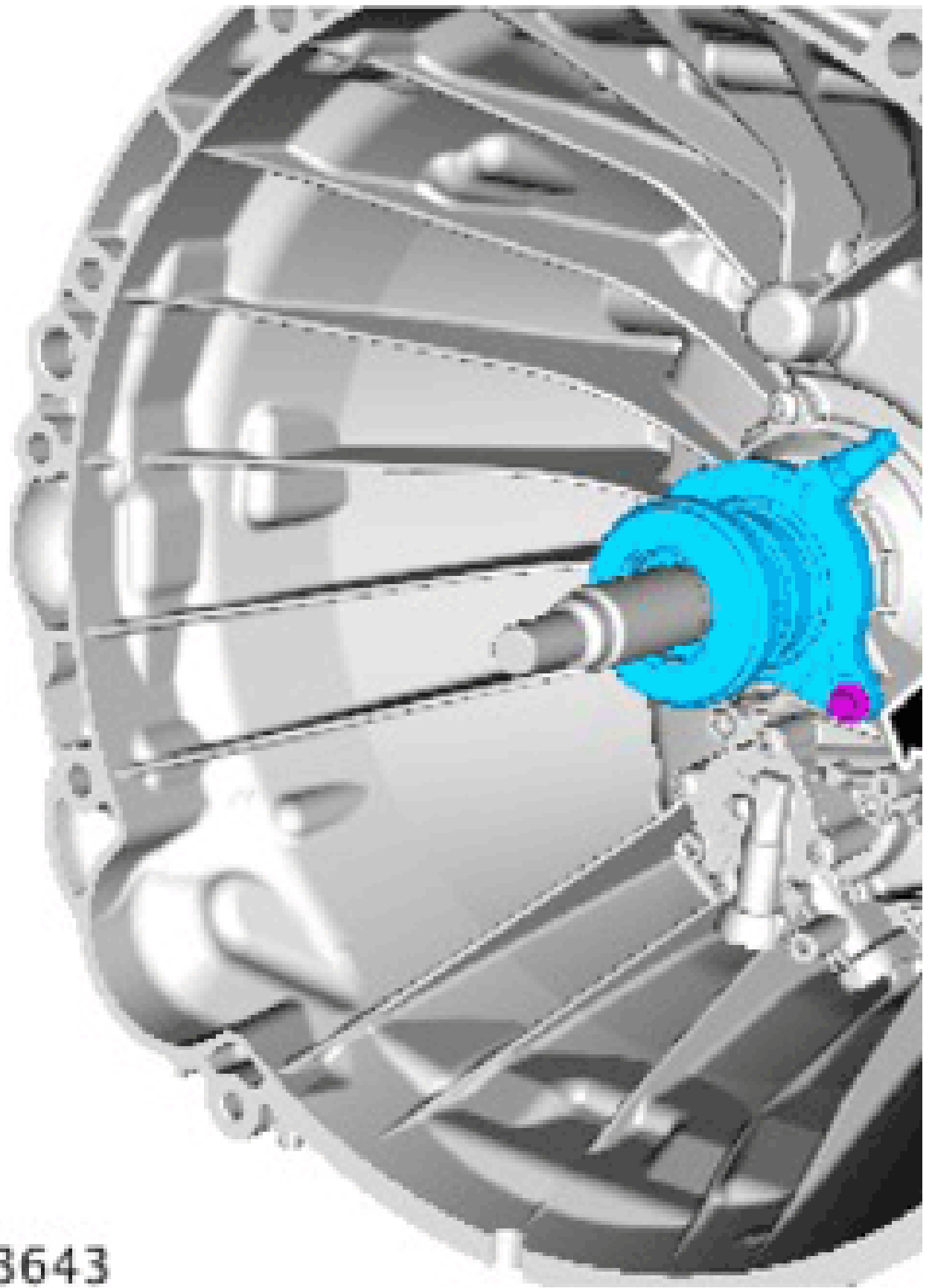
E173641

29. **WARNING:** Be prepared to collect escaping fluids.

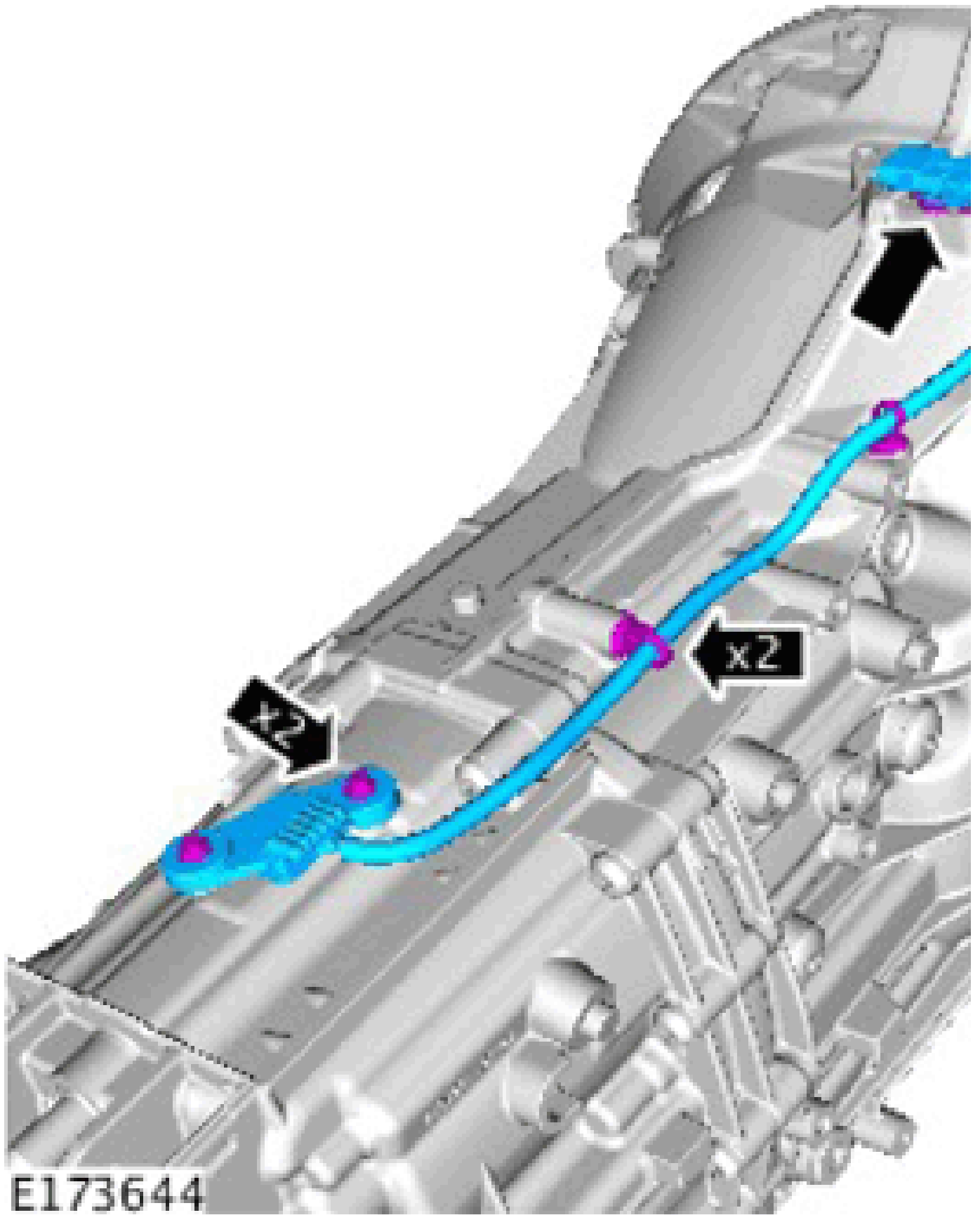
**CAUTION:** Brake fluid will damage paint finished surfaces. If spilled, immediately remove the fluid and clean the area with water.



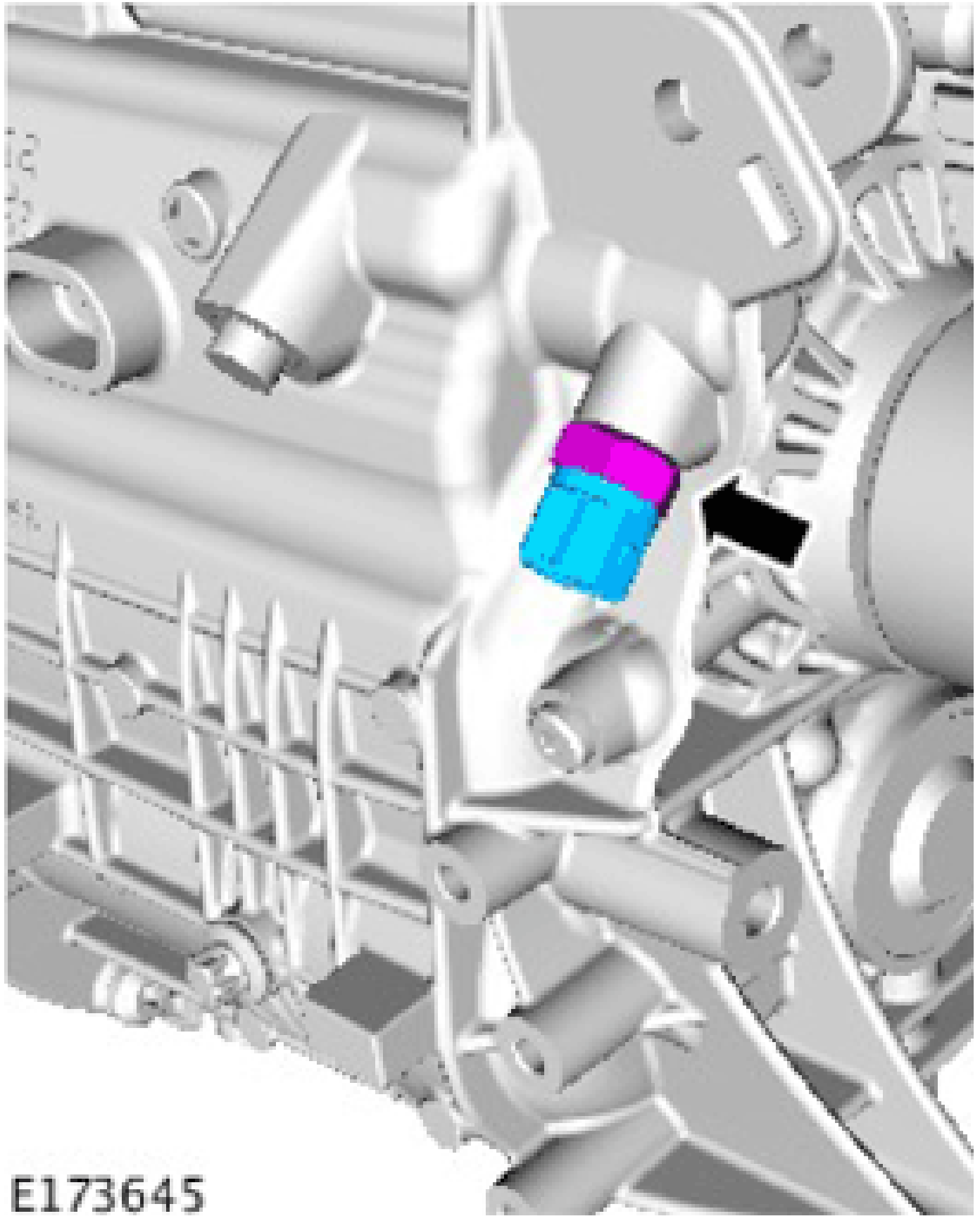
E173642



**E173643**







E173645

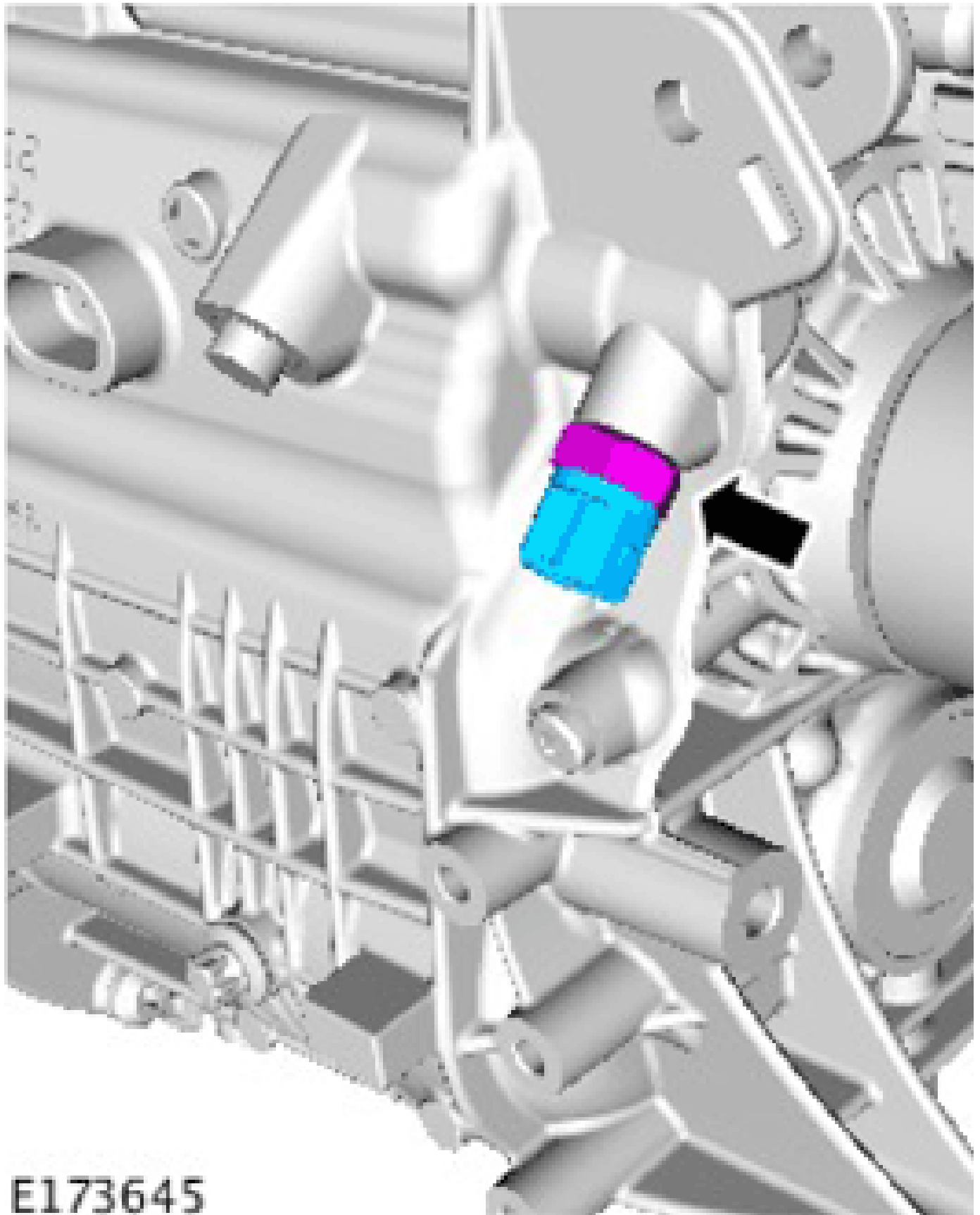
Installation

**NOTE:**

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

- Some illustrations may show the transmission removed for clarity.

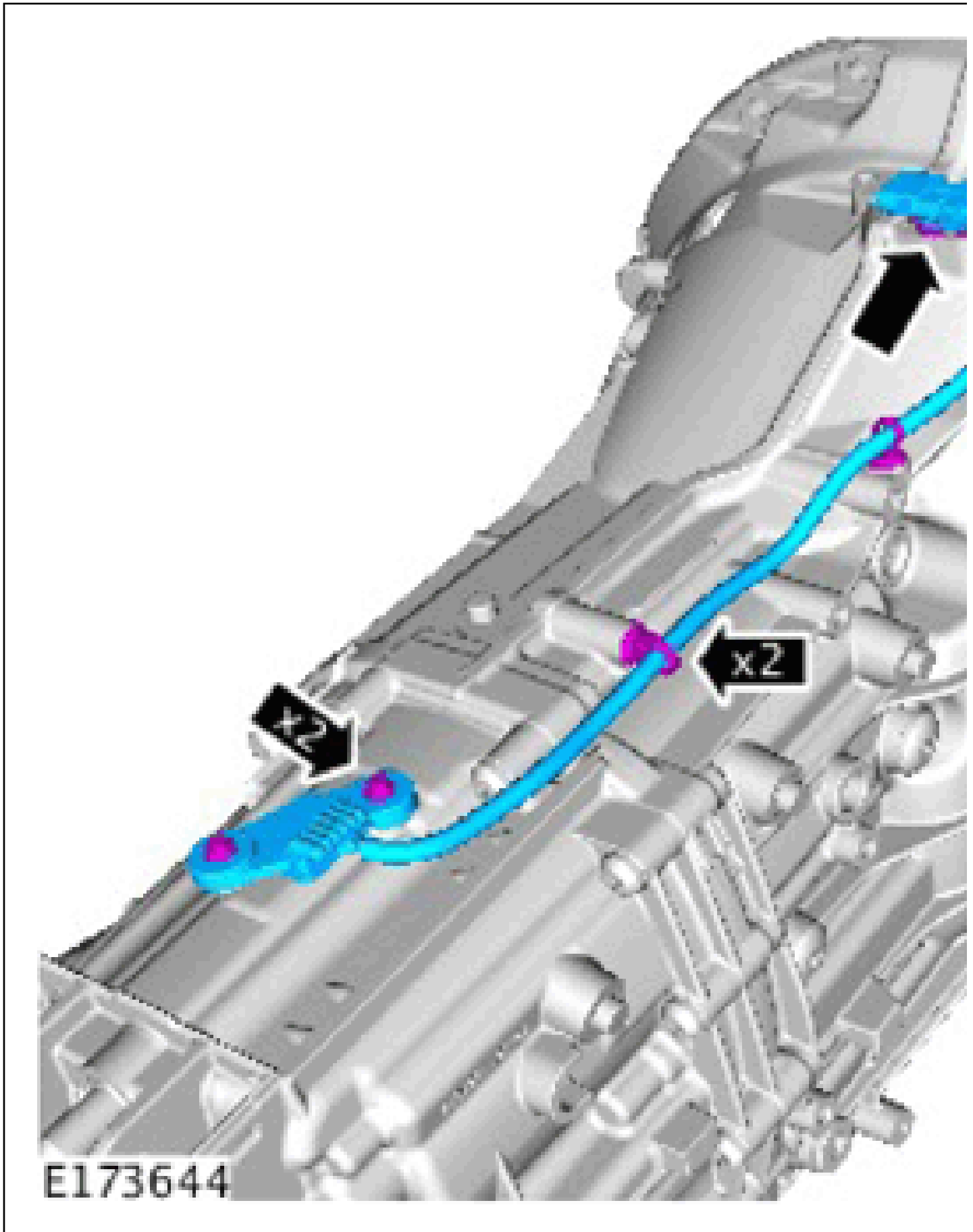
1. **NOTE:** This step is only required if previously removed.



E173645

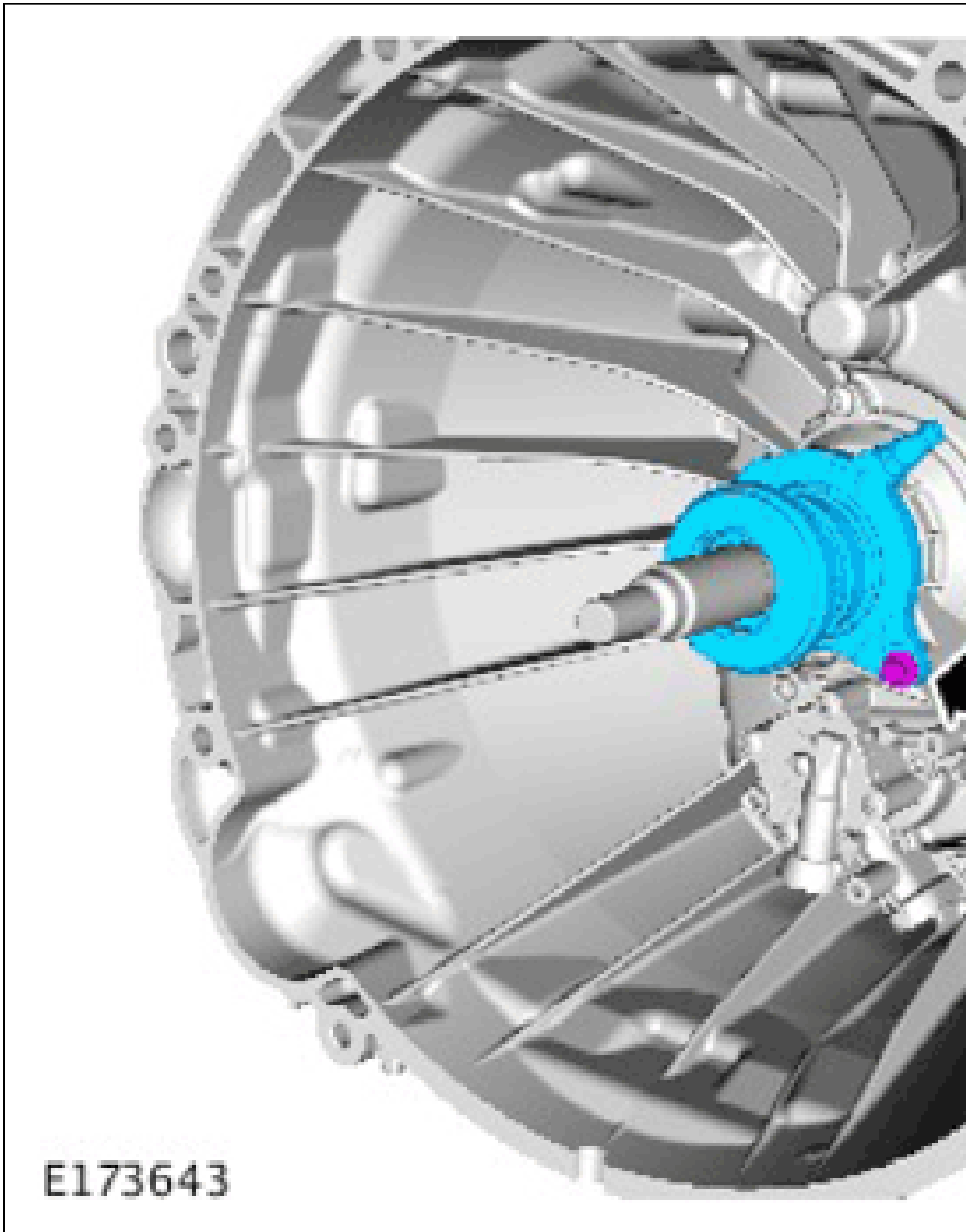
Torque Specification: 16 Nm

2. **NOTE:** This step is only required if previously removed.



*Torque Specification: 3 Nm*

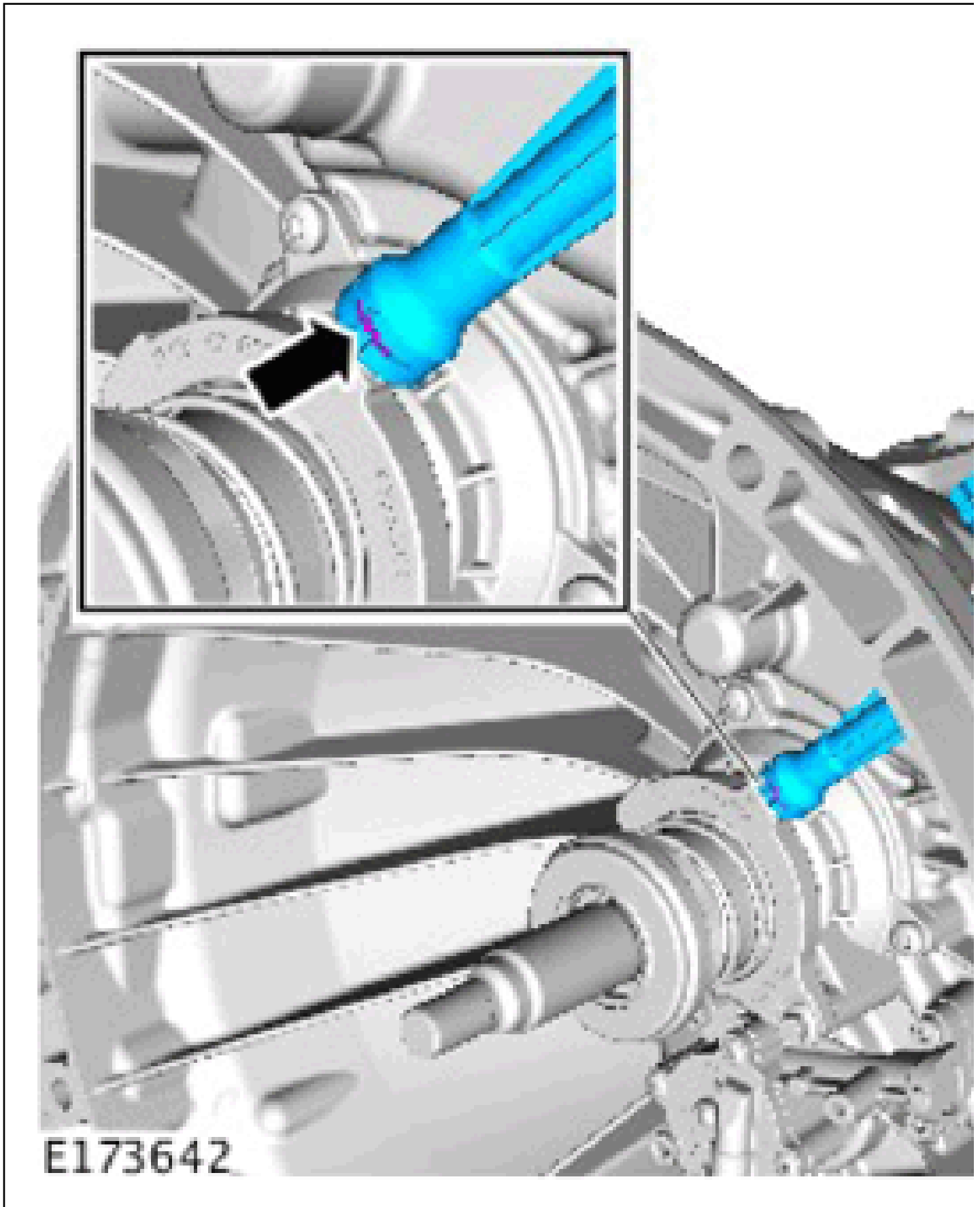
3. **NOTE:** This step is only required if previously removed.



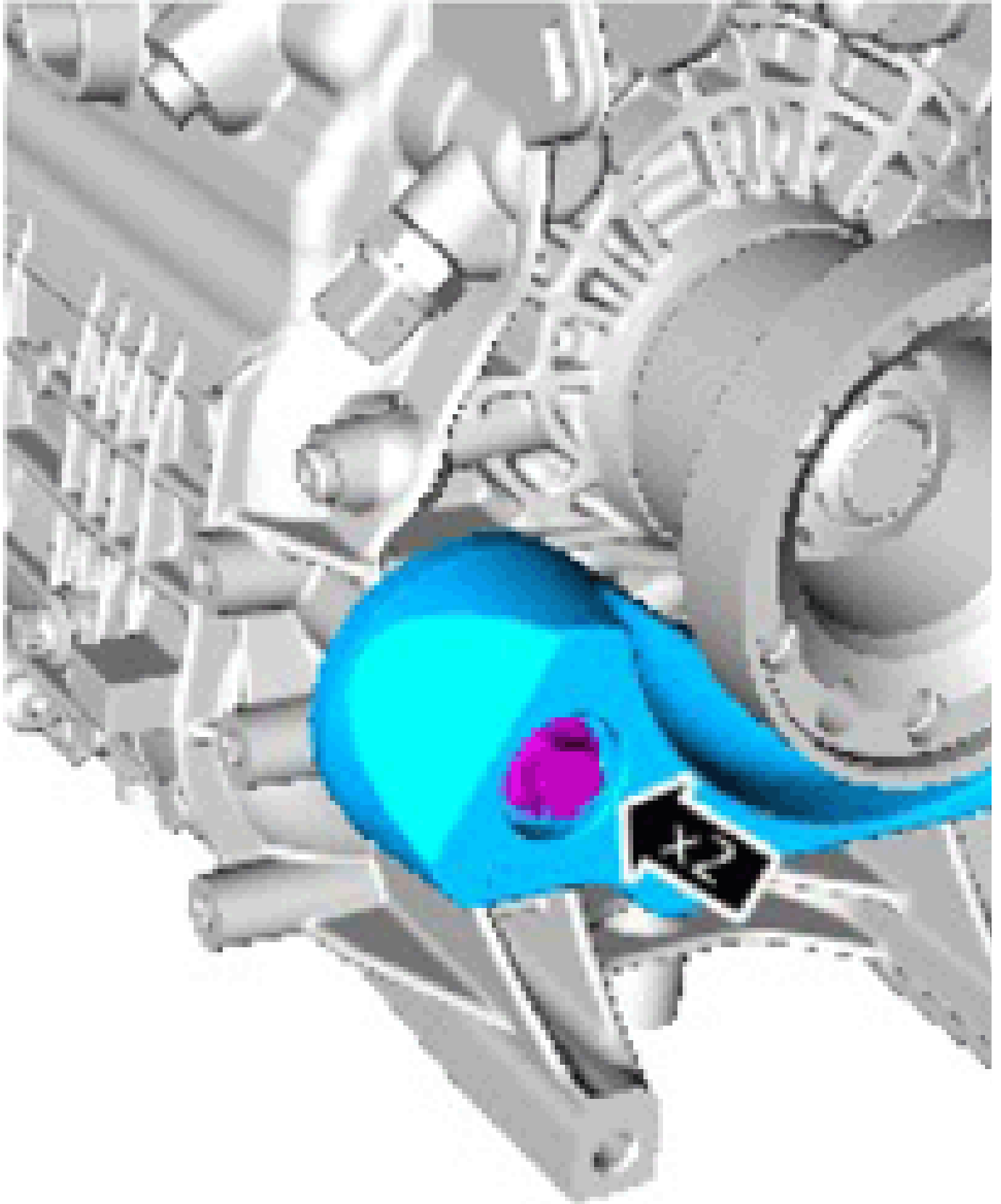
*Torque Specification: 10 Nm*

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

**NOTE:** This step is only required if previously removed.



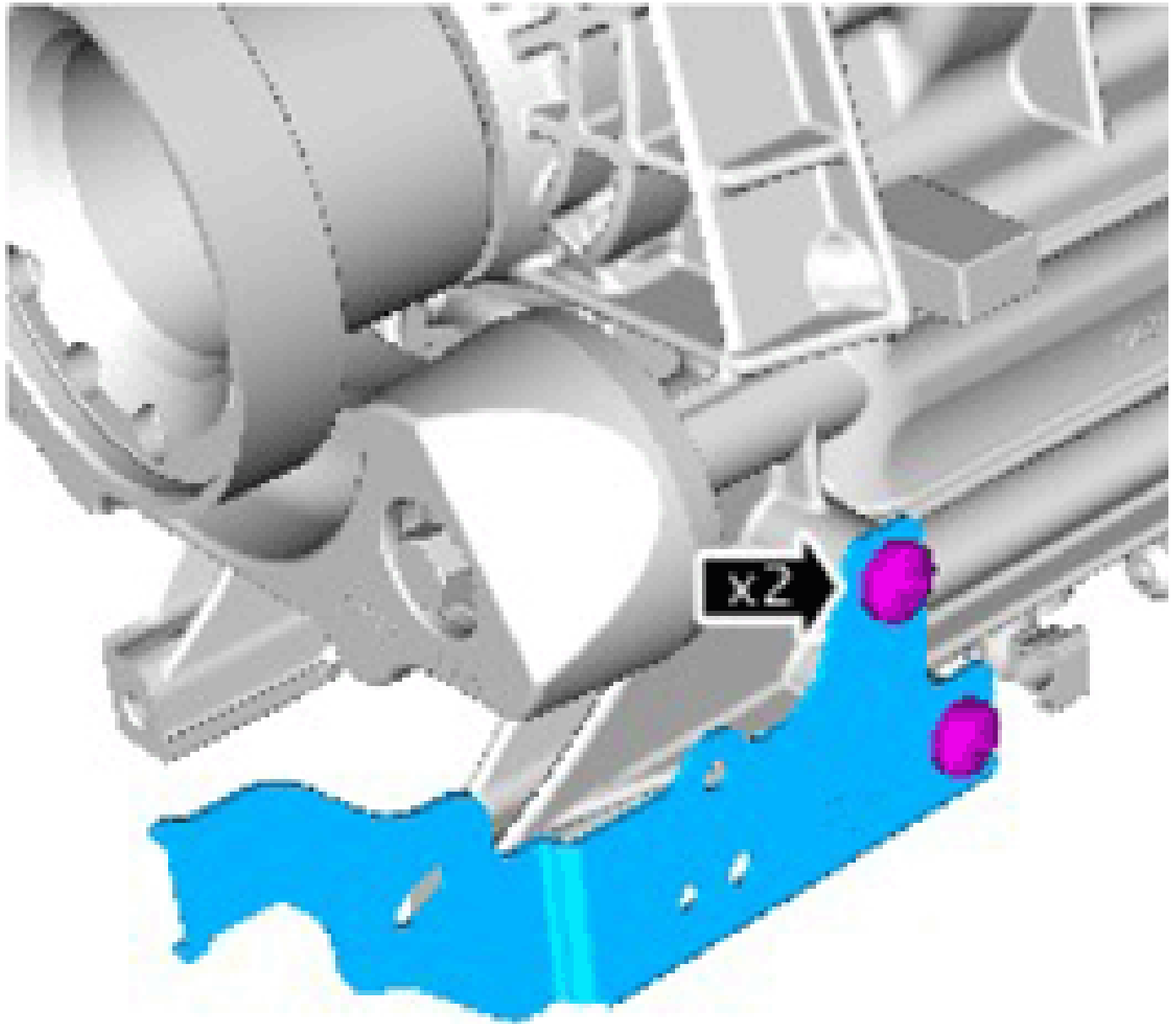
5. **NOTE:** This step is only required if previously removed.



E173641

*Torque Specification: 48 Nm*

6. **NOTE:** This step is only required if previously removed.

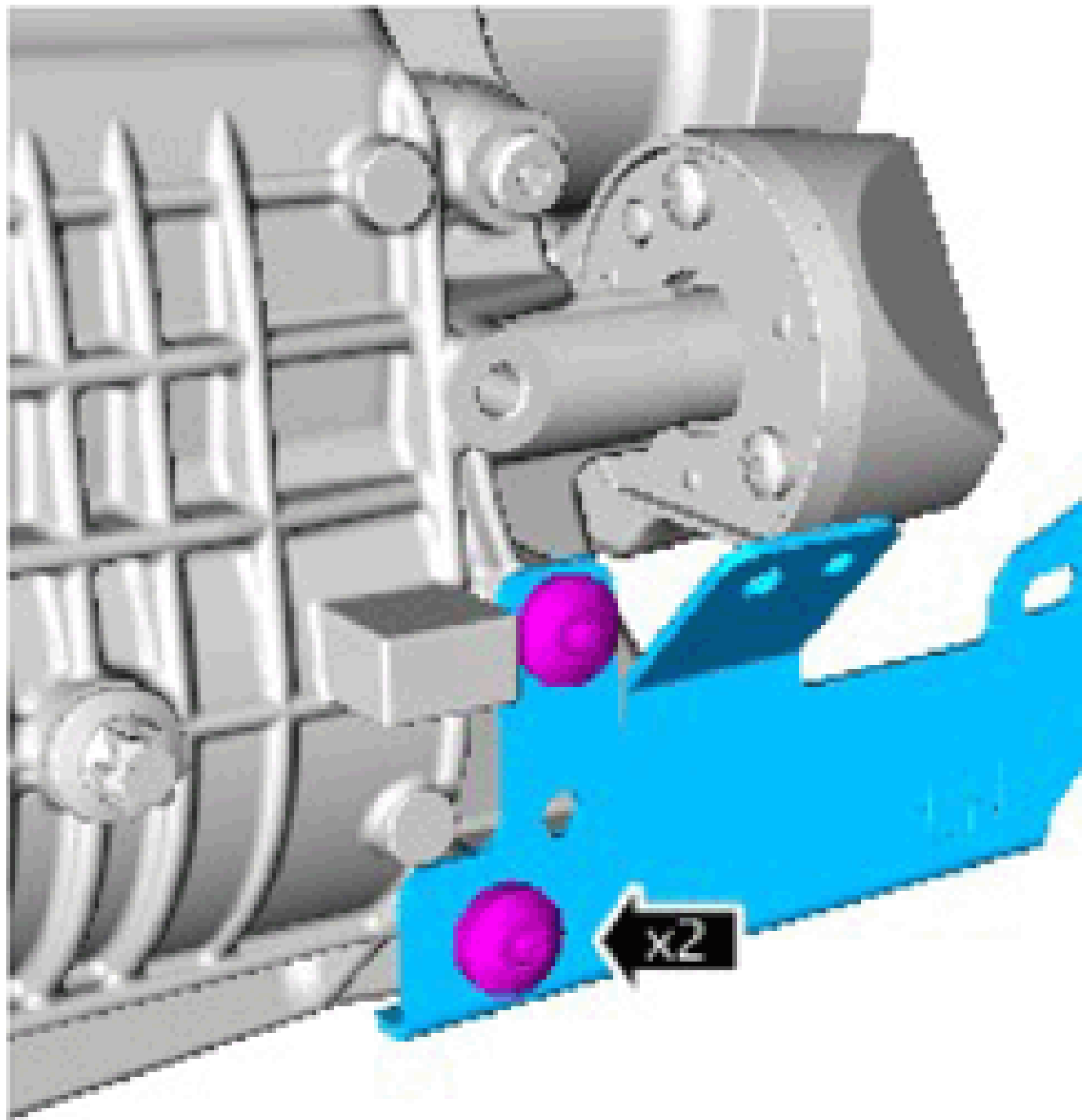


**E173640**

*Torque Specification: 12 Nm*

- NOTE:** This step is only required if previously removed.

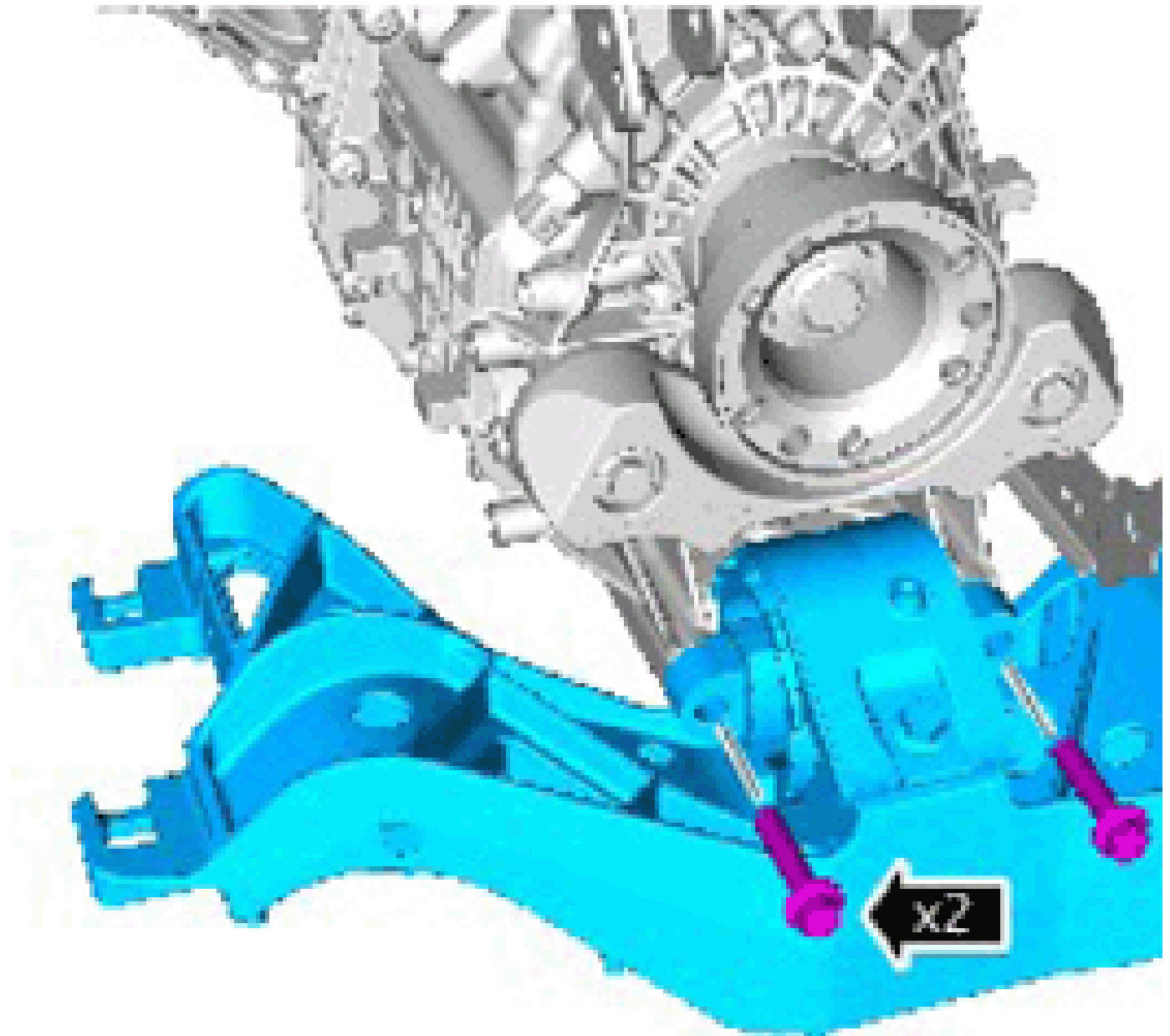




E173639

*Torque Specification: 12 Nm*

8. **NOTE:** This step is only required if previously removed.

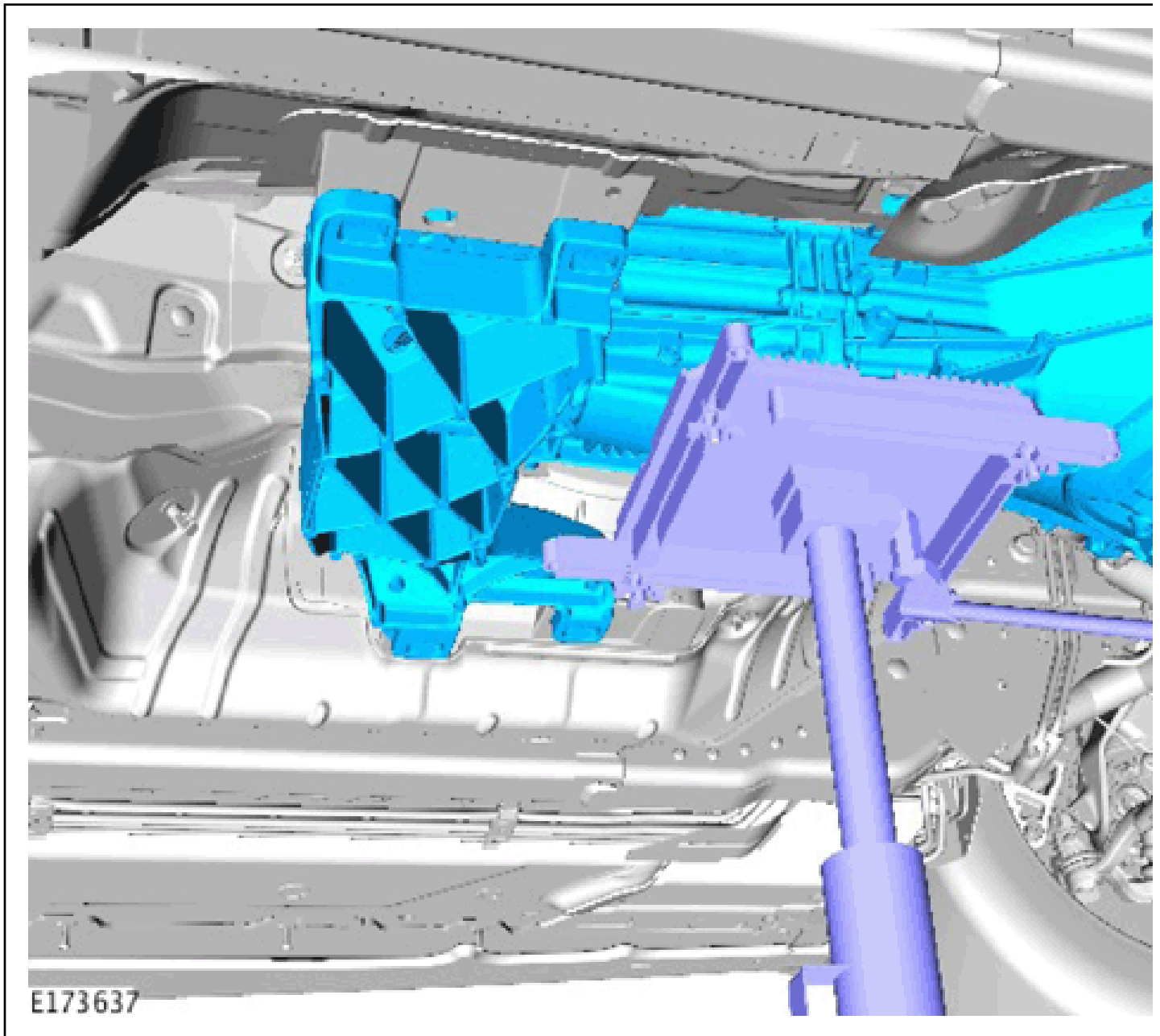


**E173638**

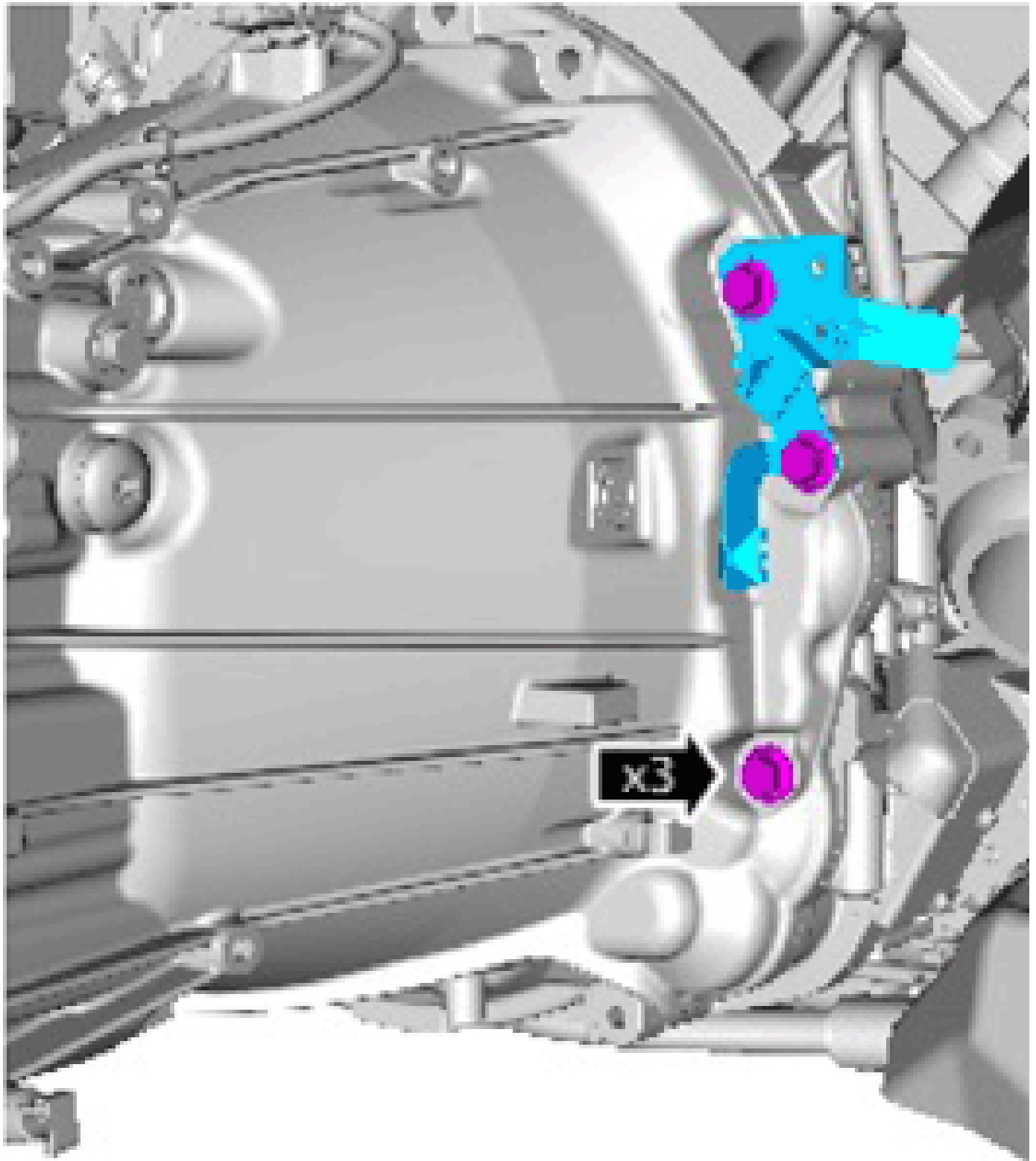
*Torque Specification: 48 Nm*

9. **WARNING:** This step requires the aid of another technician.

- CAUTION:**
- Care must be taken to avoid damaging the surrounding components.
  - Apply grease of the correct specification to the input shaft.

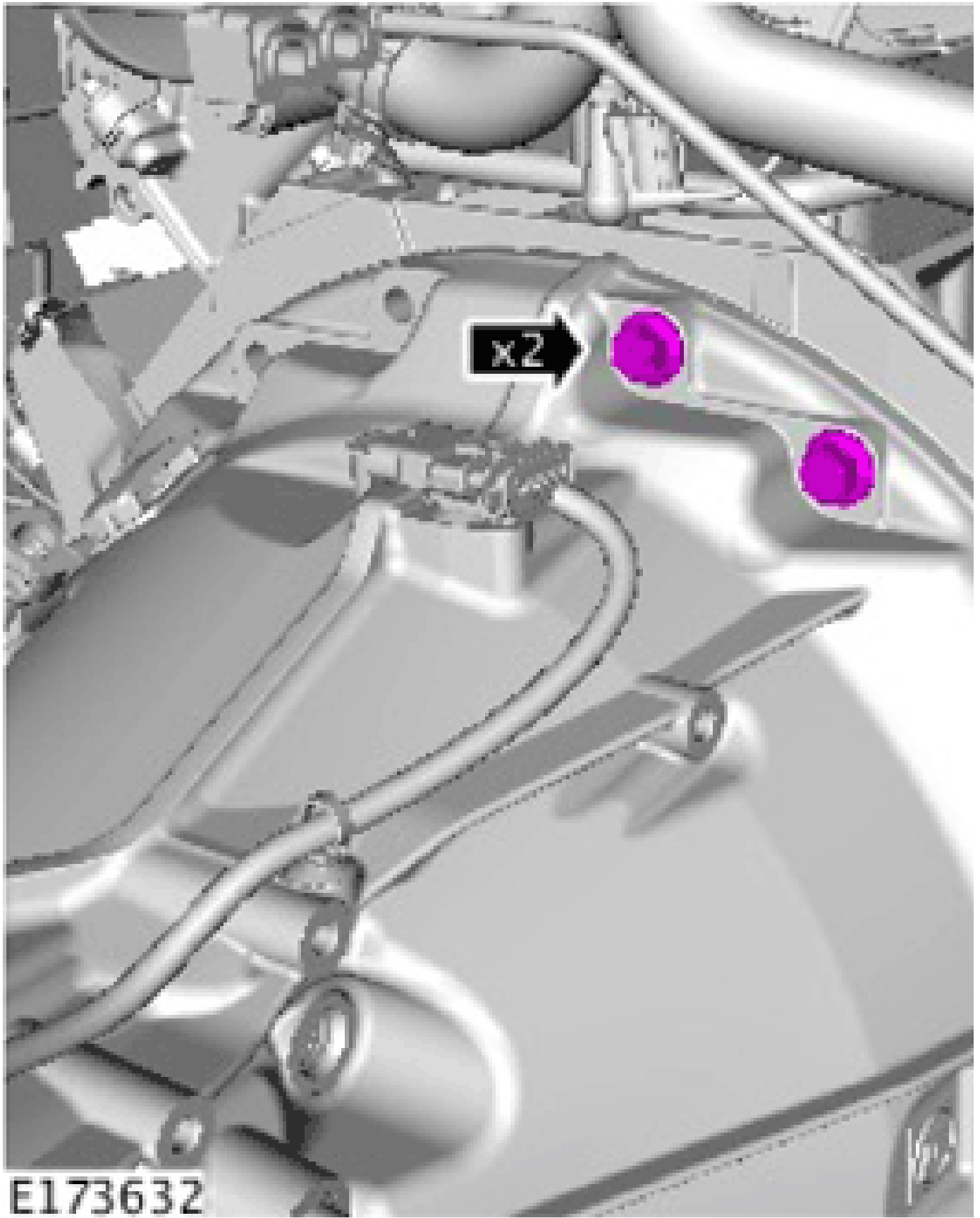


10.



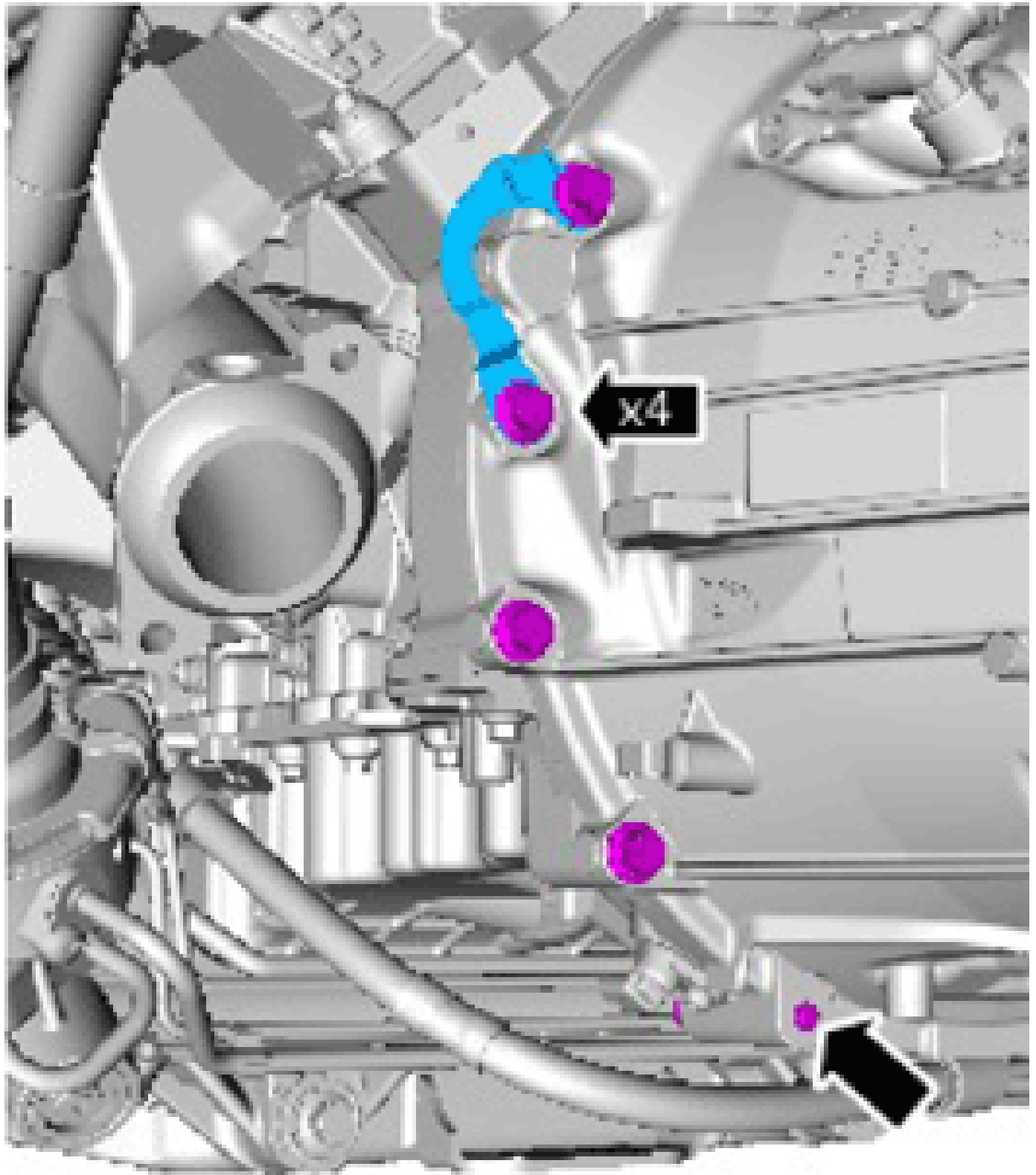
**E173636**

*Torque Specification: 48 Nm*



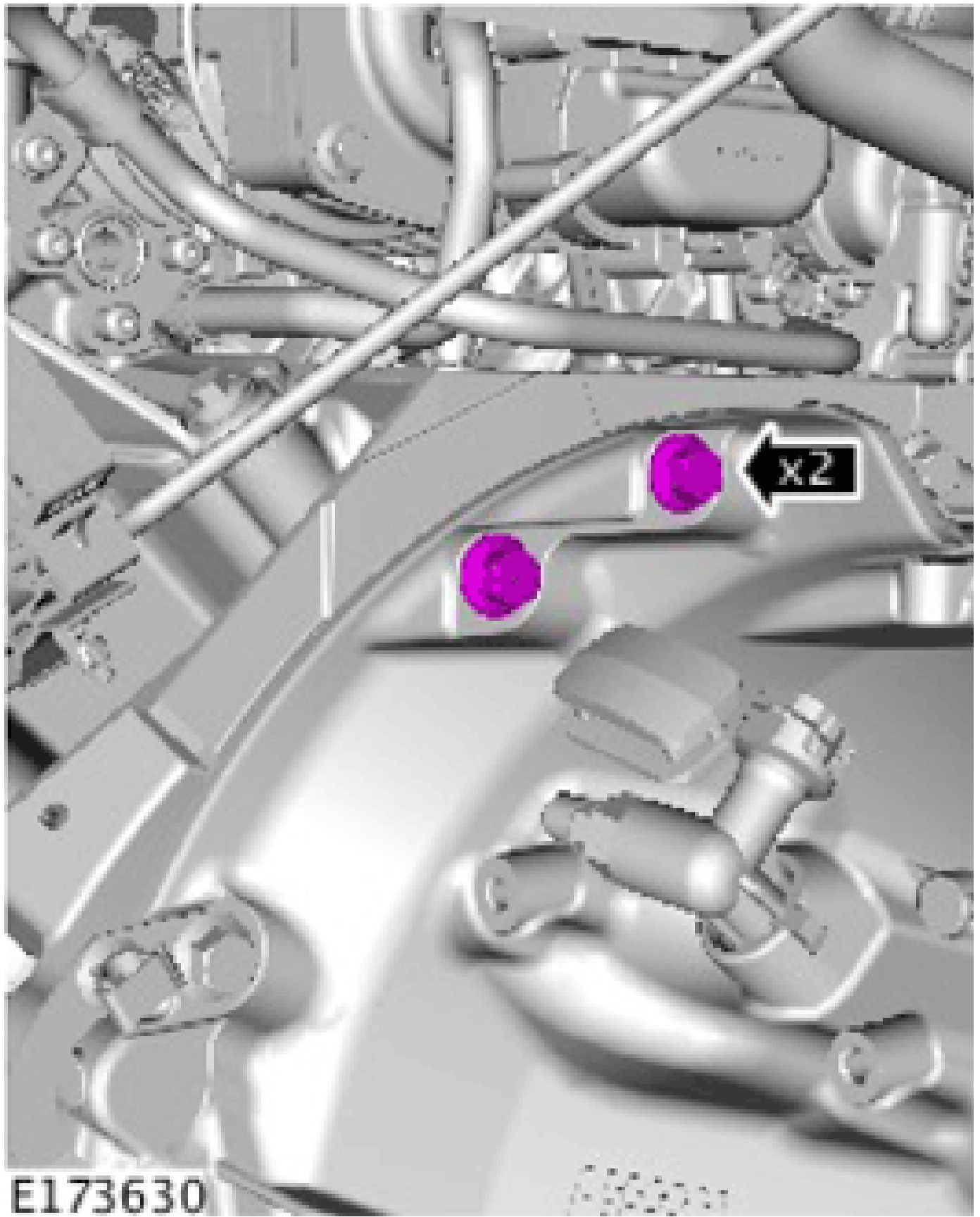
*Torque Specification: 48 Nm*

12. **NOTE:** Make sure that the components are installed to the noted removal position.

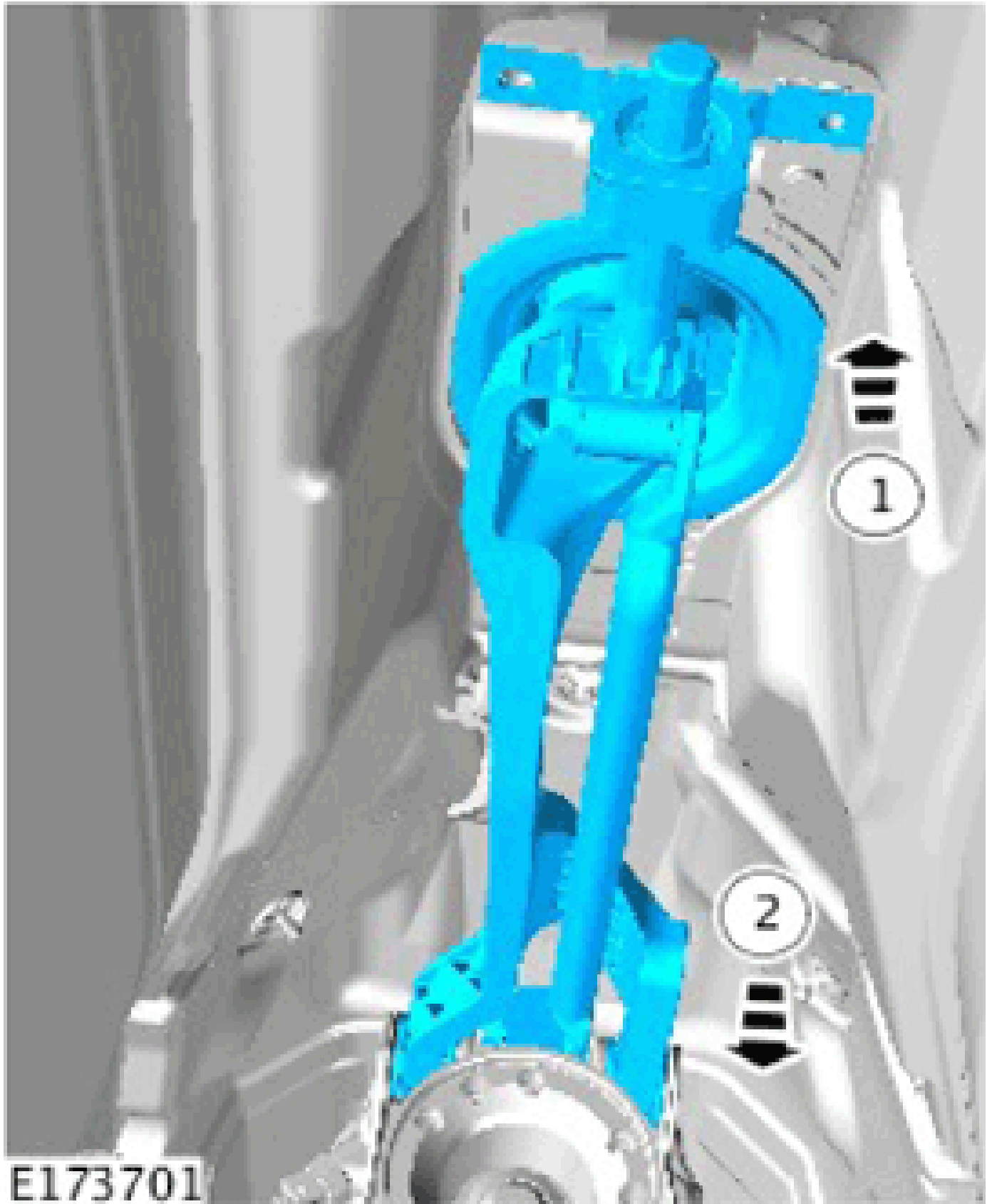


E173631

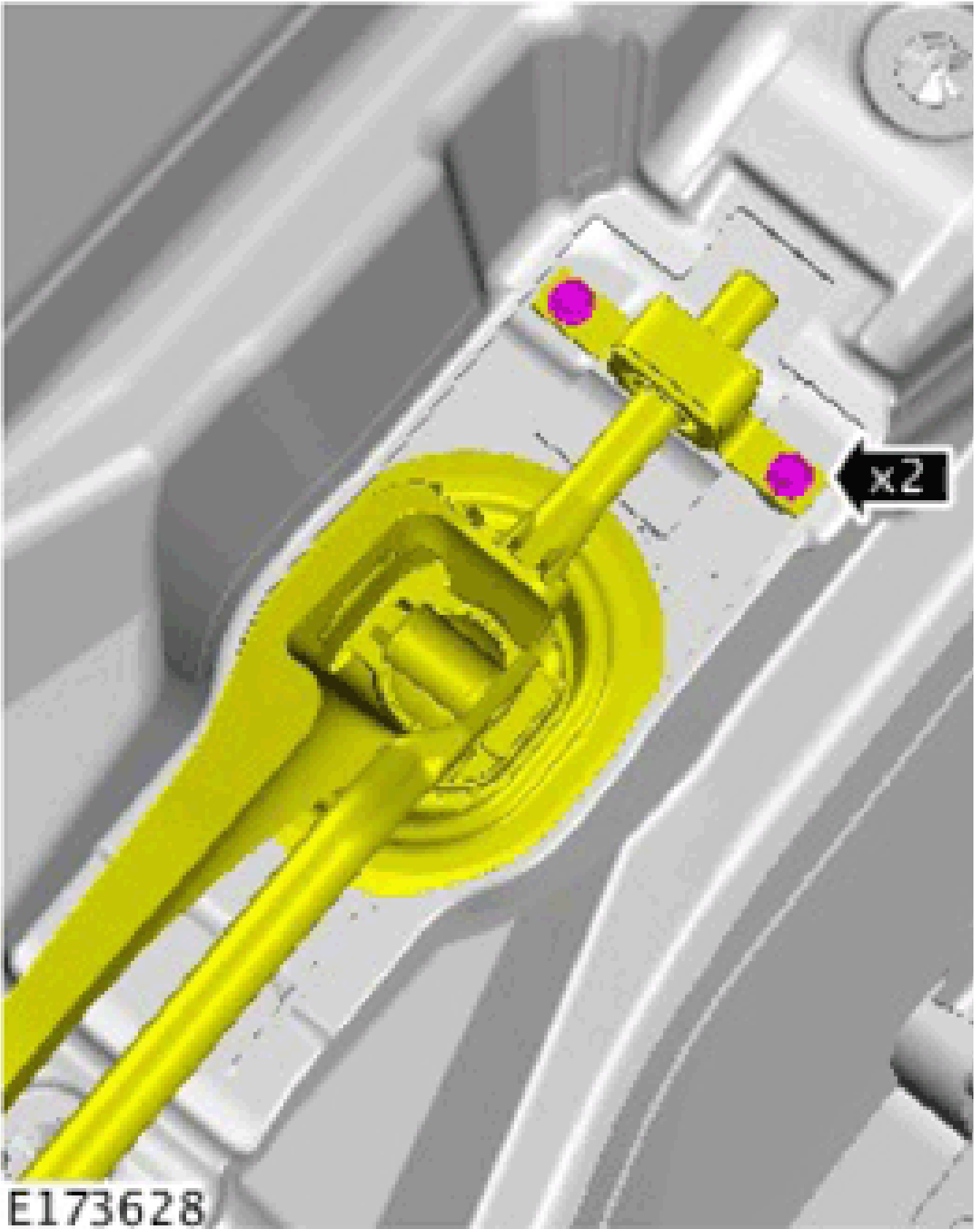
*Torque Specification: 48 Nm*



*Torque Specification: 48 Nm*

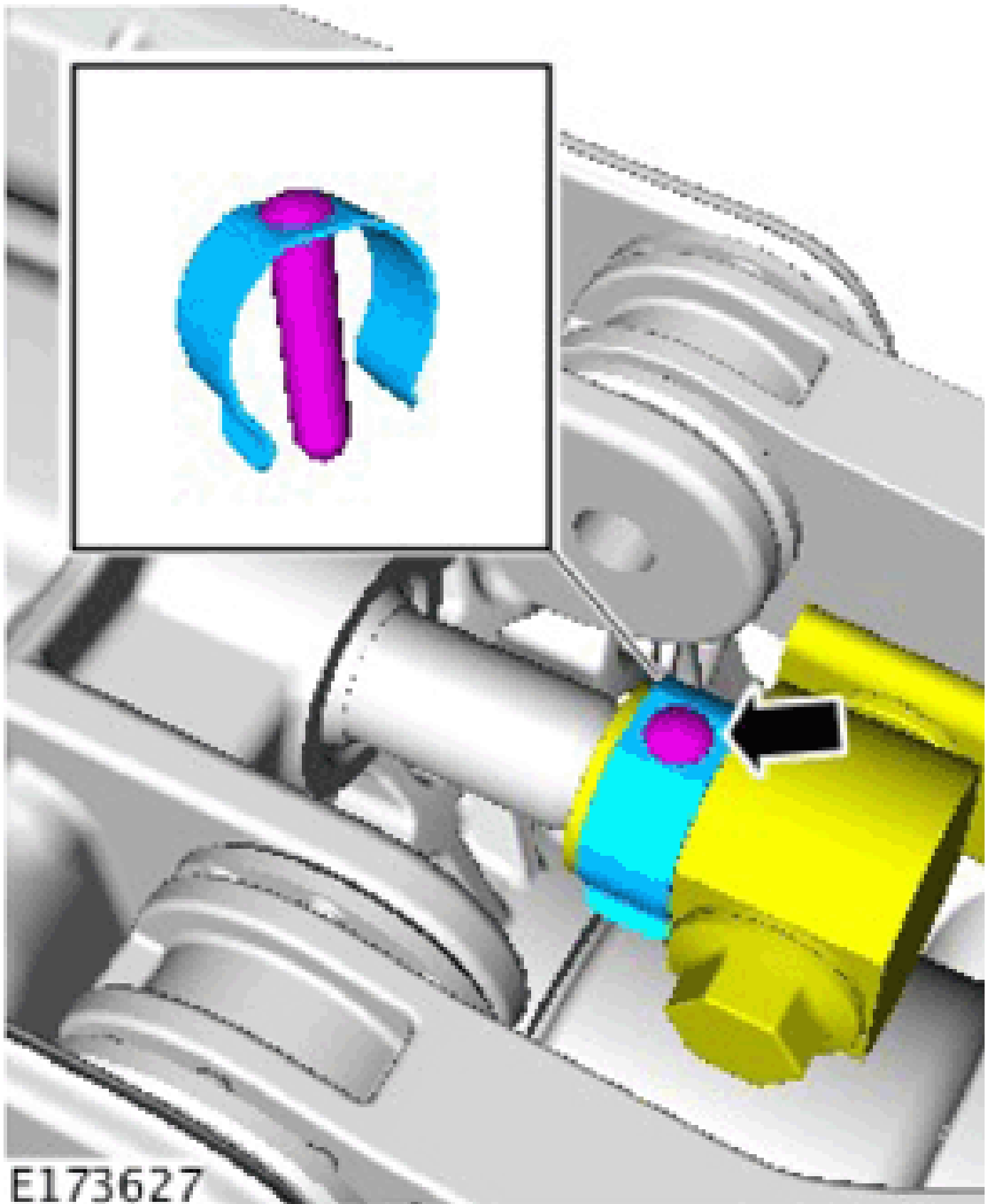




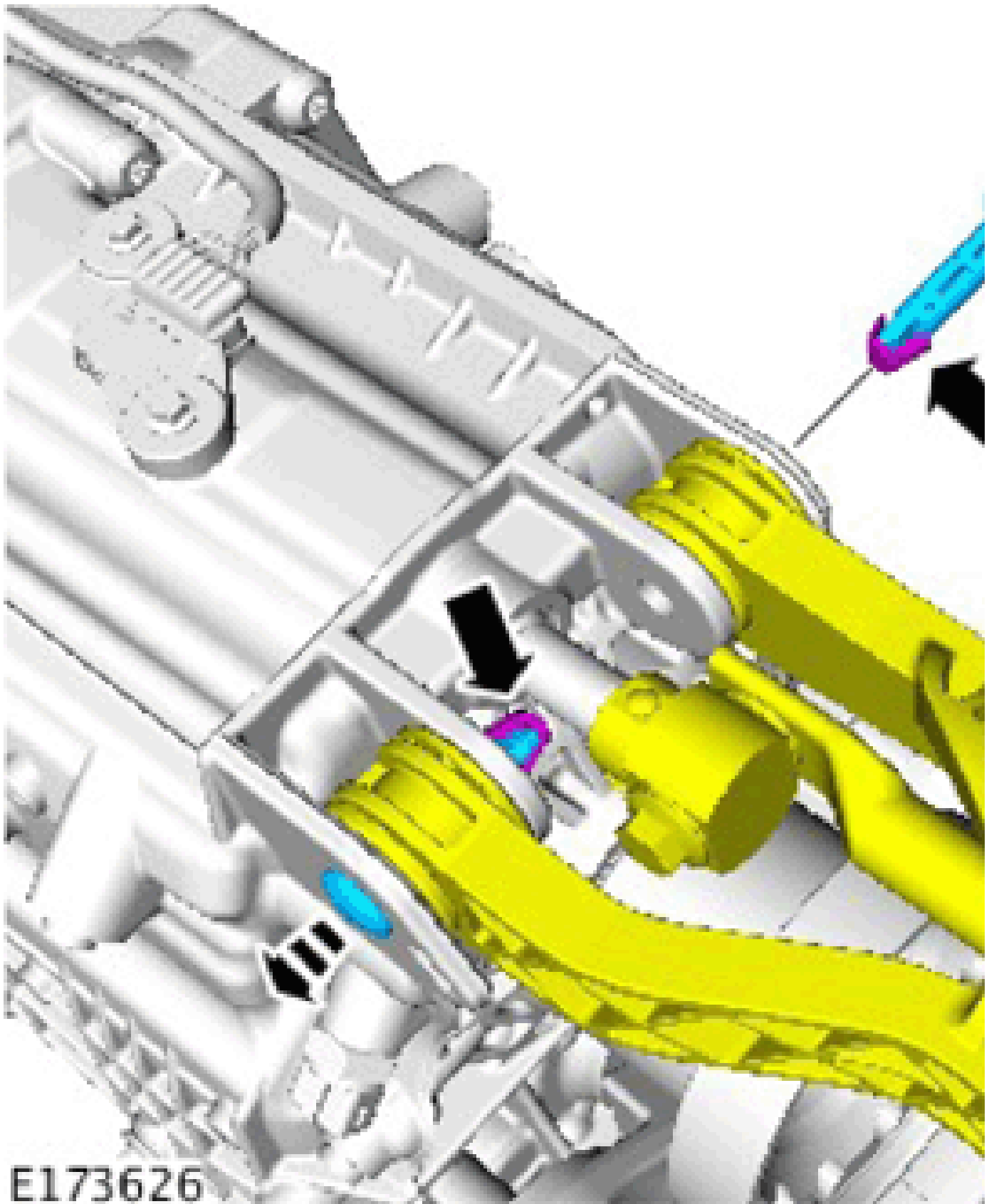


*Torque Specification: 12 Nm*

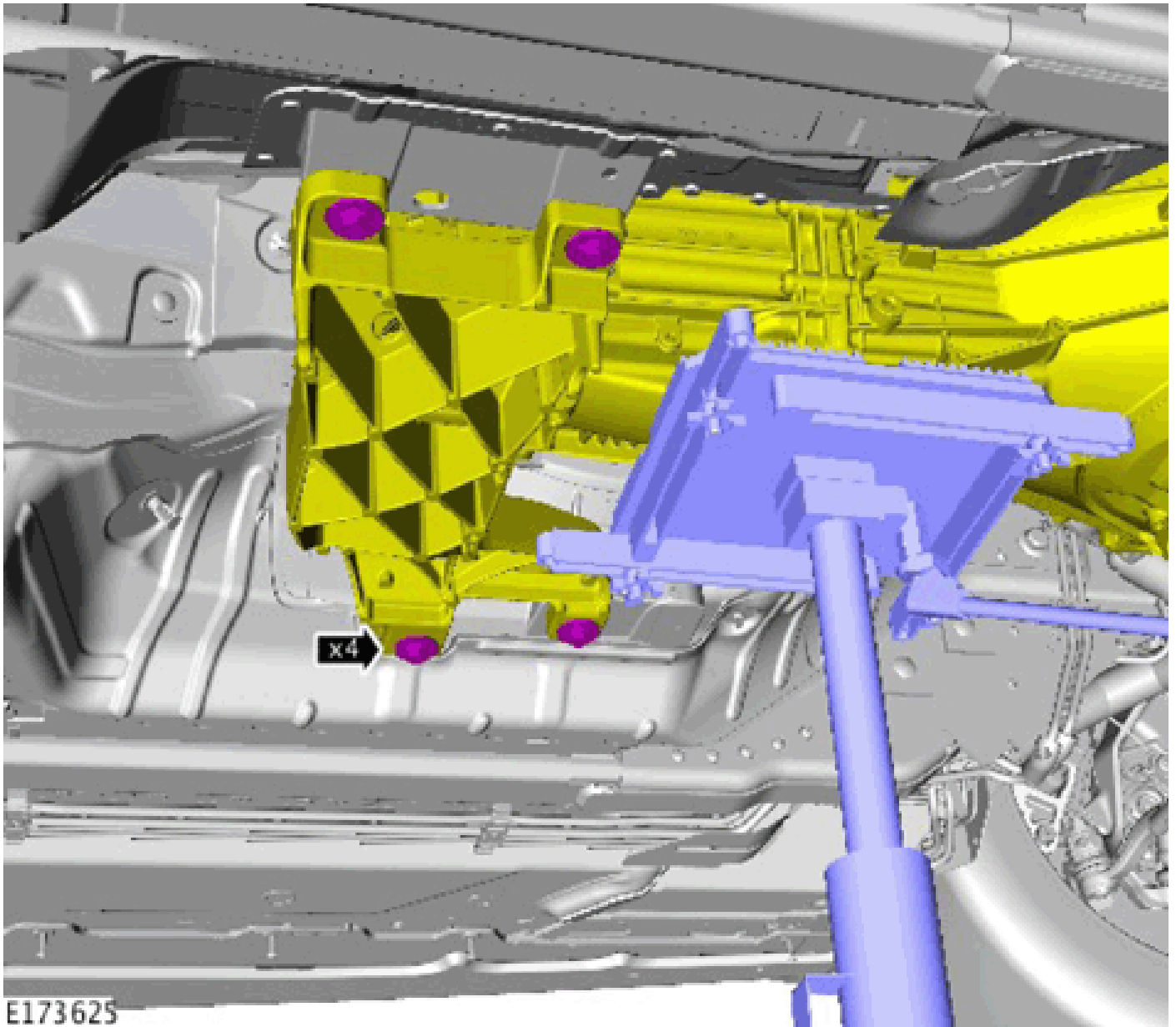
16. **CAUTION:** Make sure that a new component is installed.



17. CAUTION: Make sure that new components are installed.

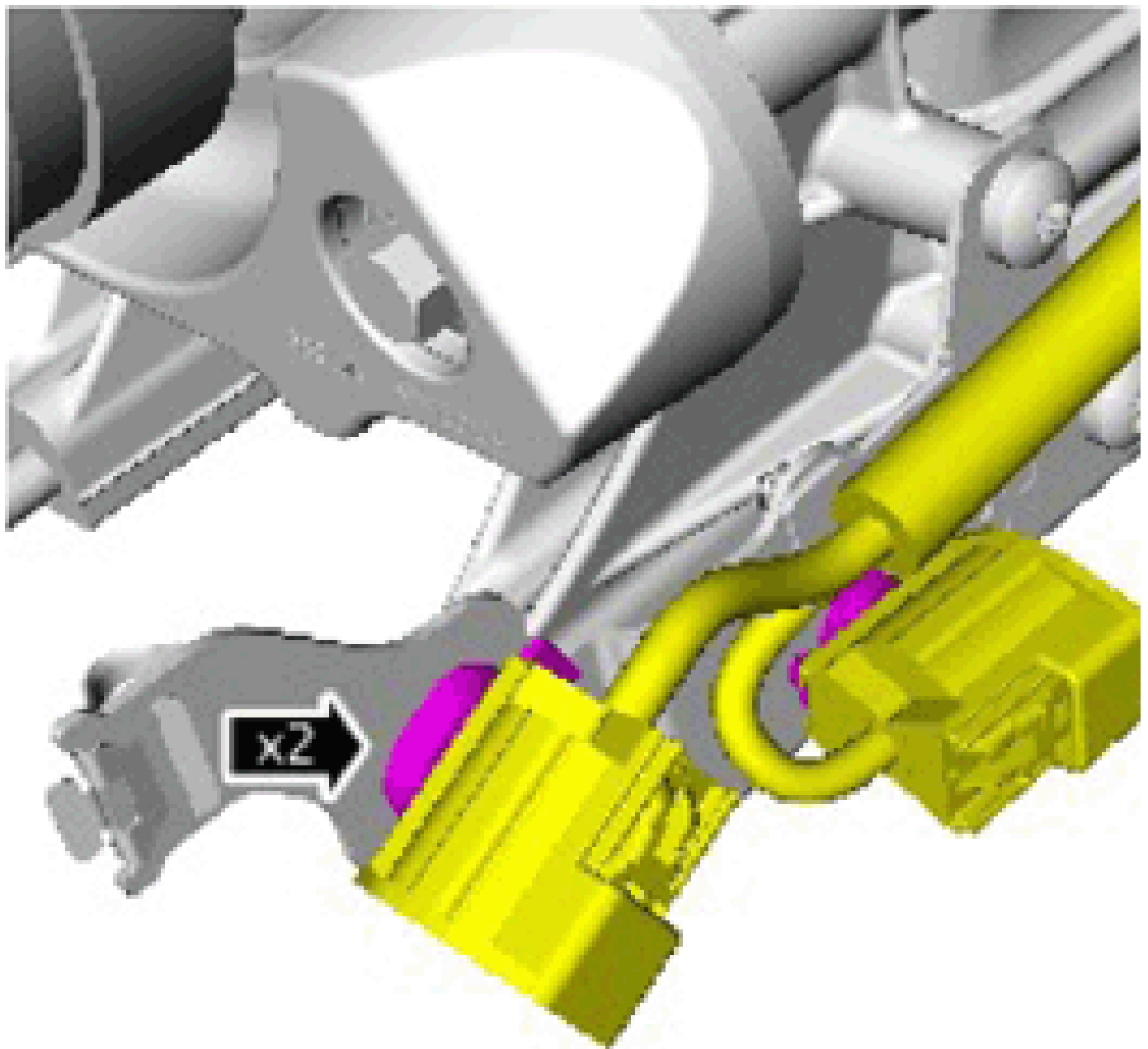


E173626



E173625

*Torque Specification: 45 Nm*

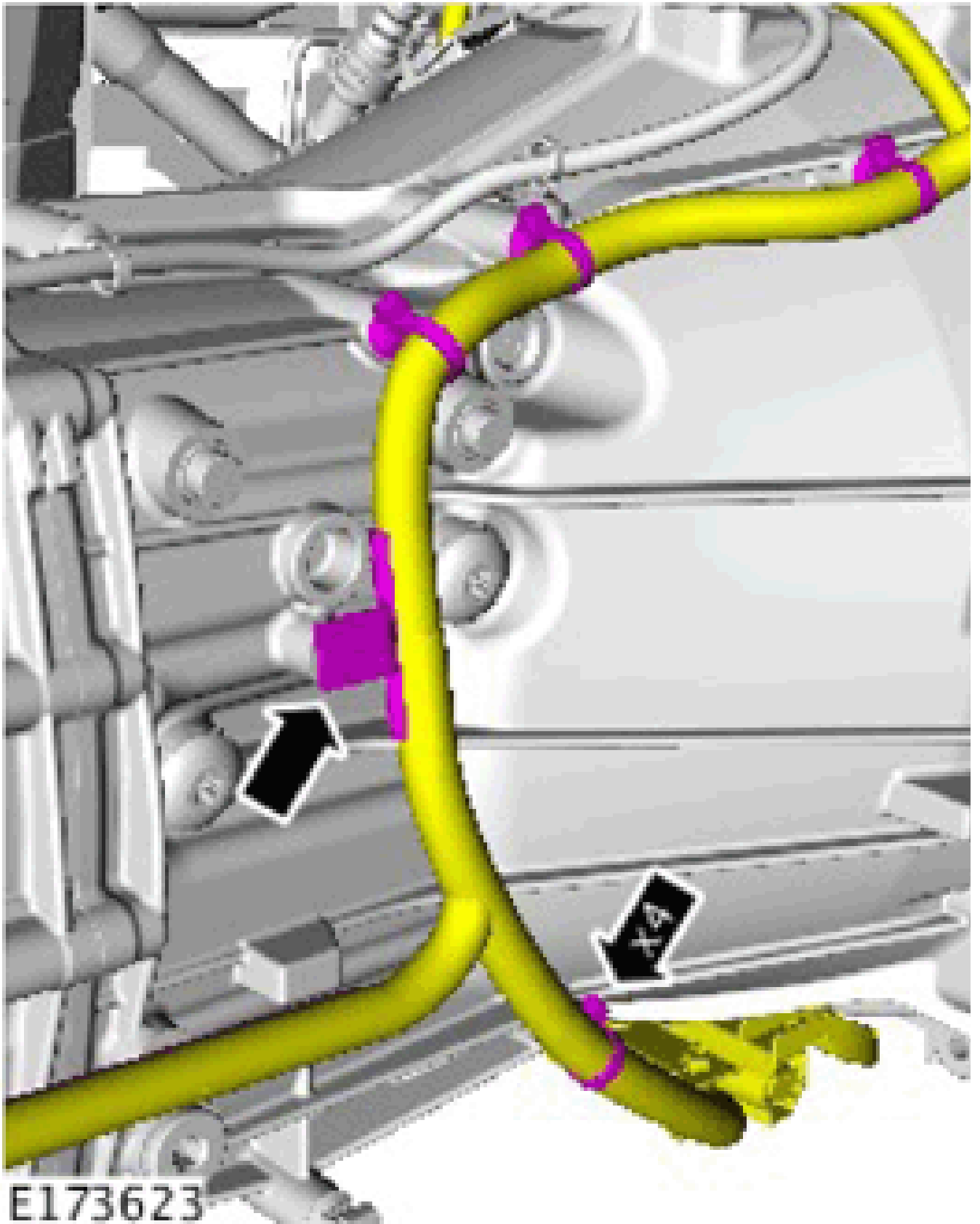


E173624

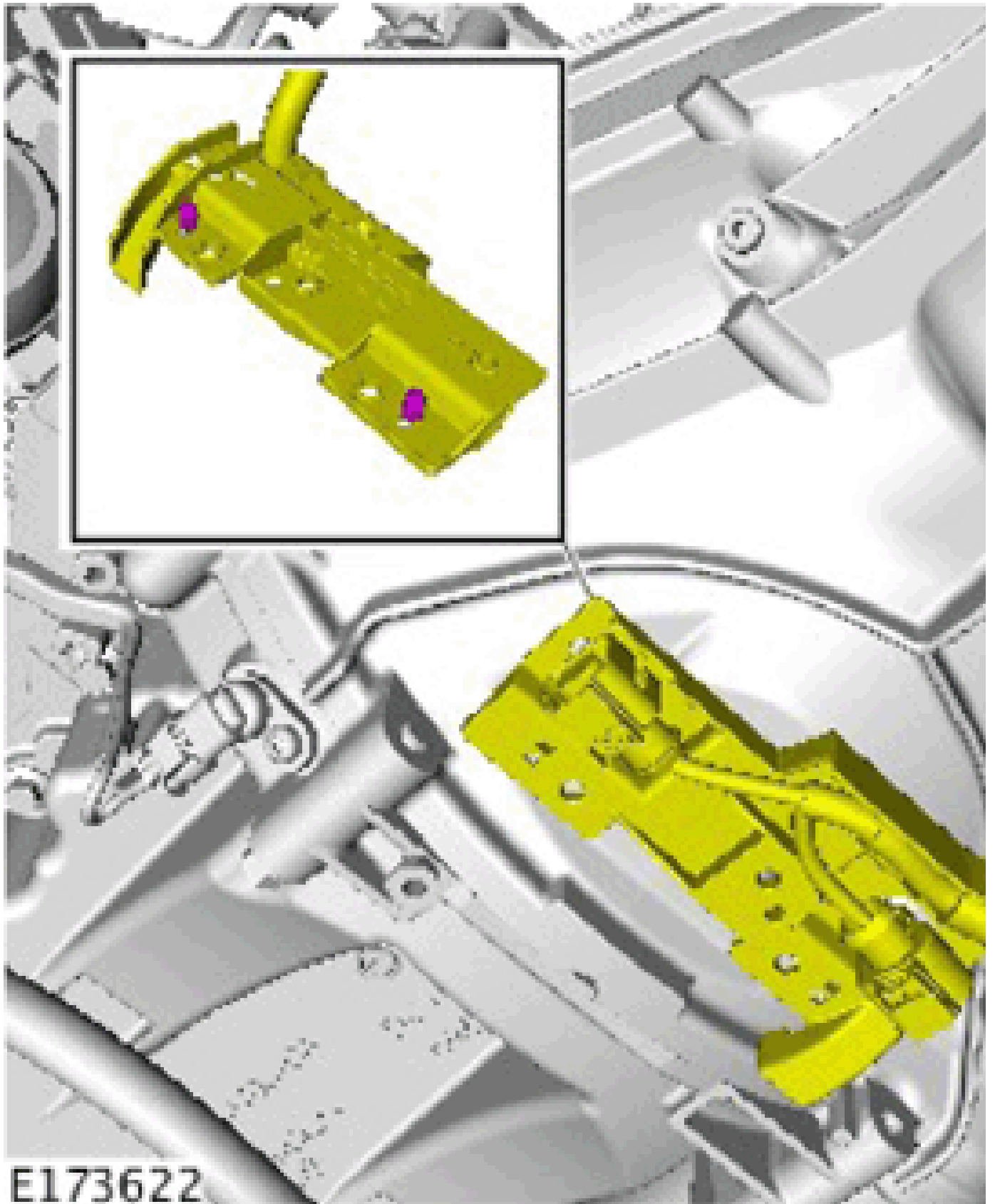
**NOTE:**

- Remove and discard the cable ties.

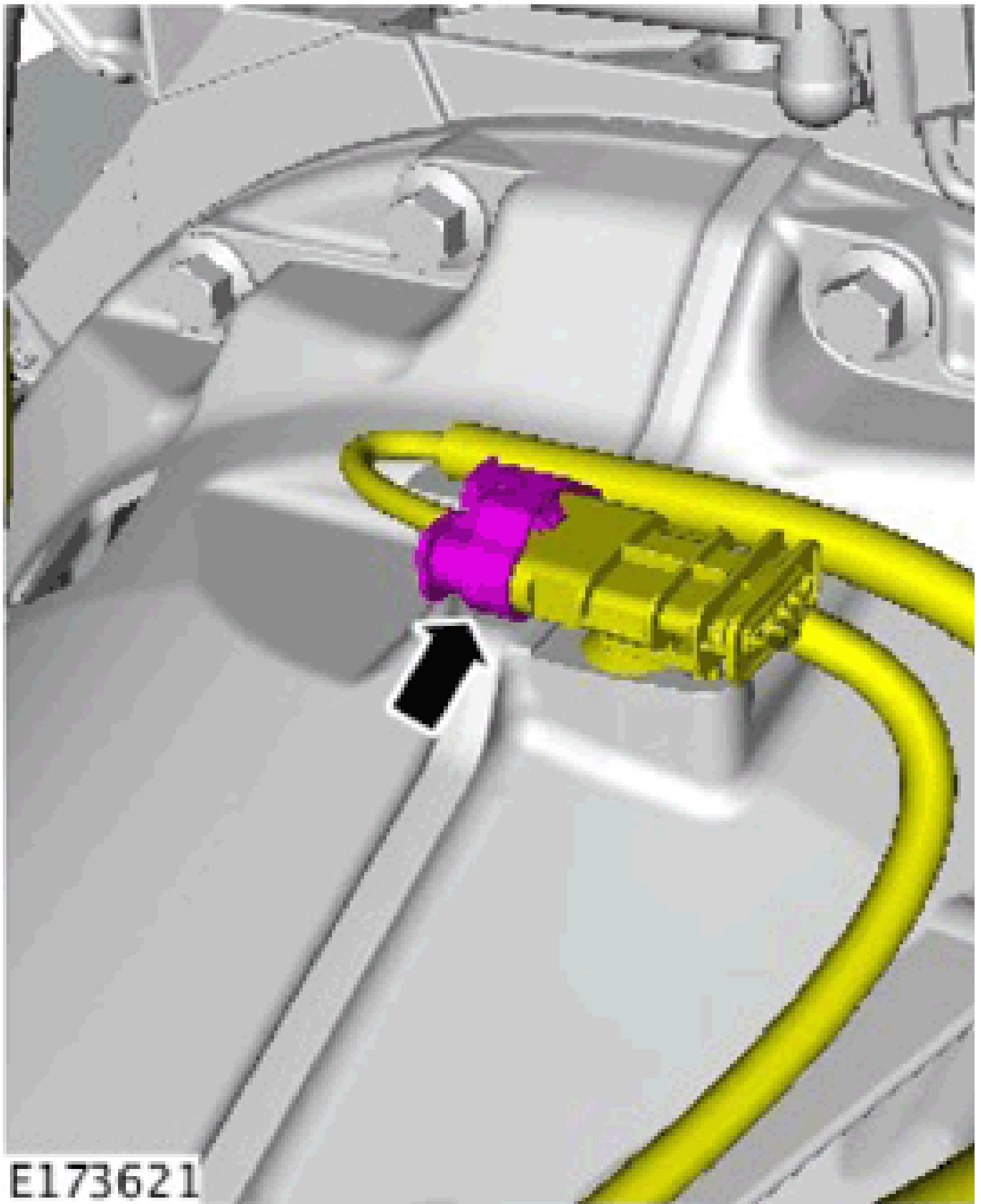
20.



21.

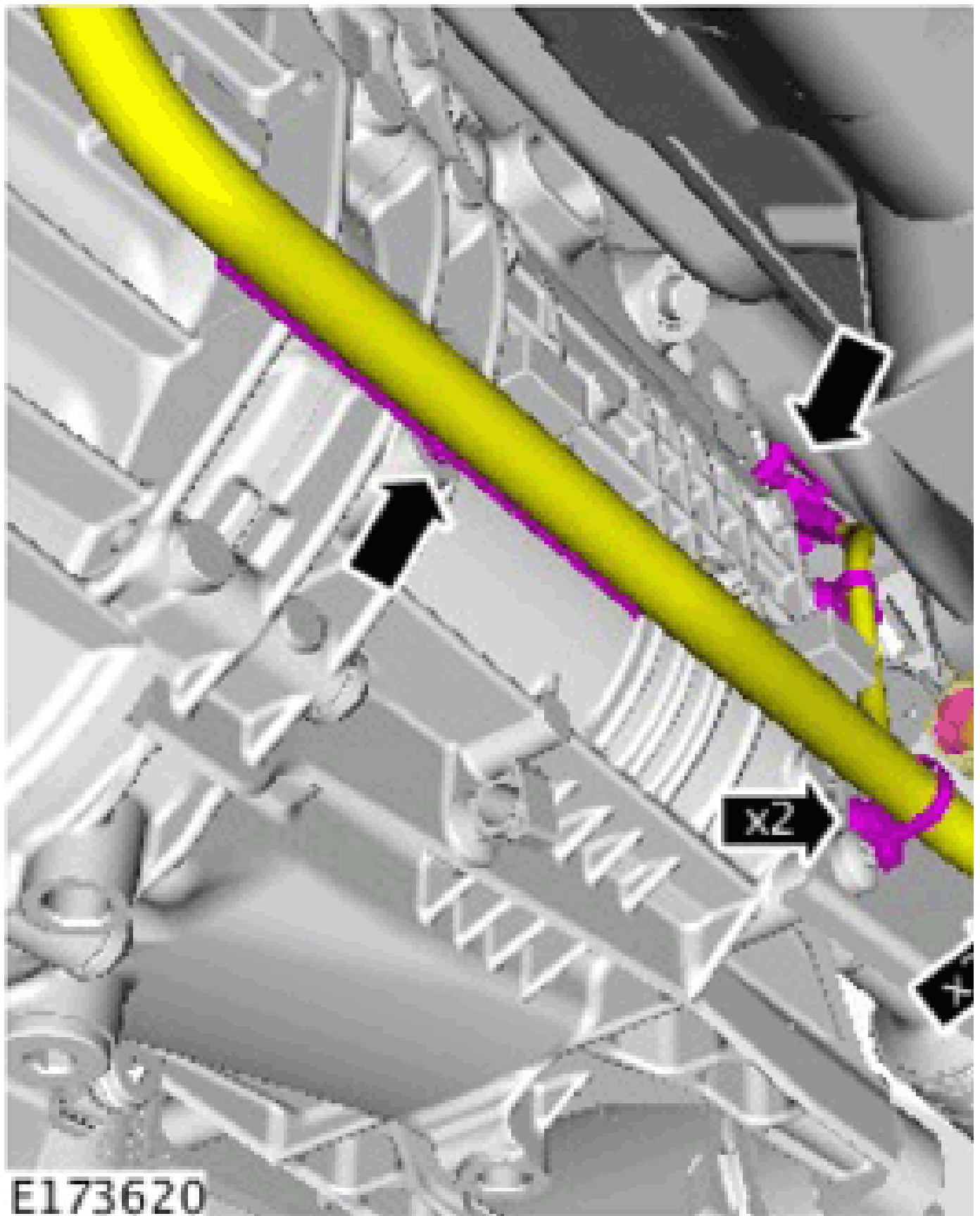


E173622

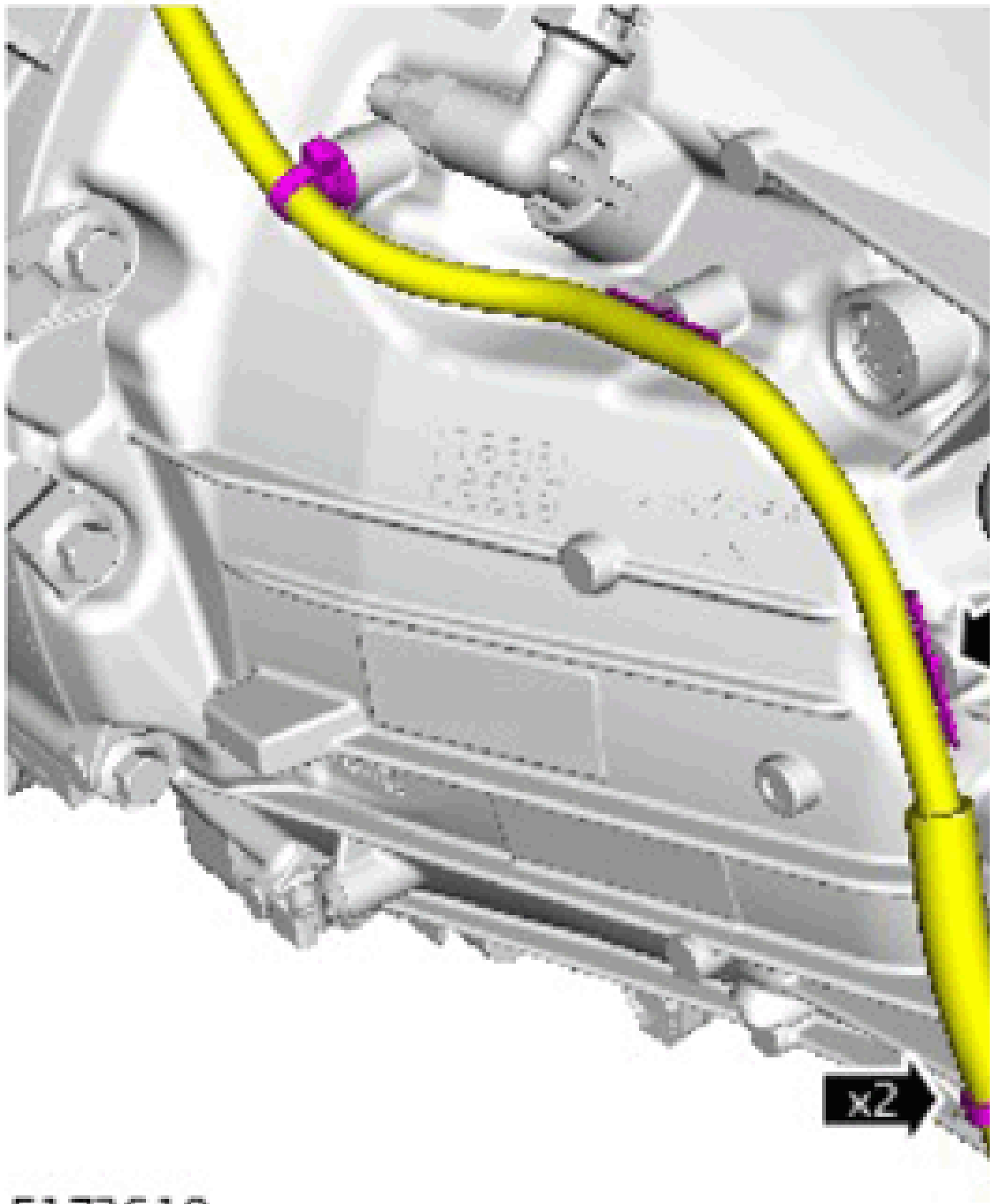


23. **NOTE:** Remove and discard the cable ties.





E173620

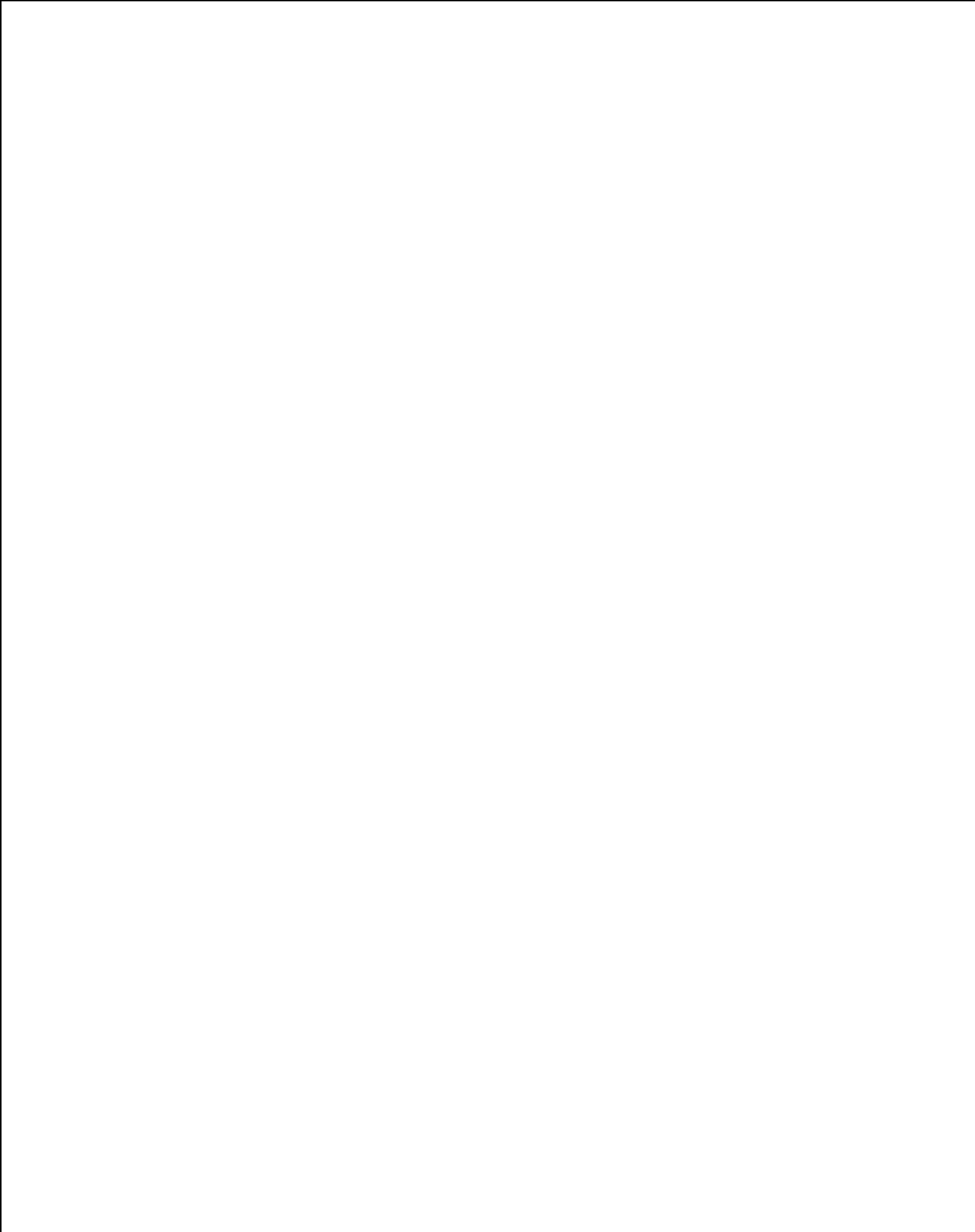


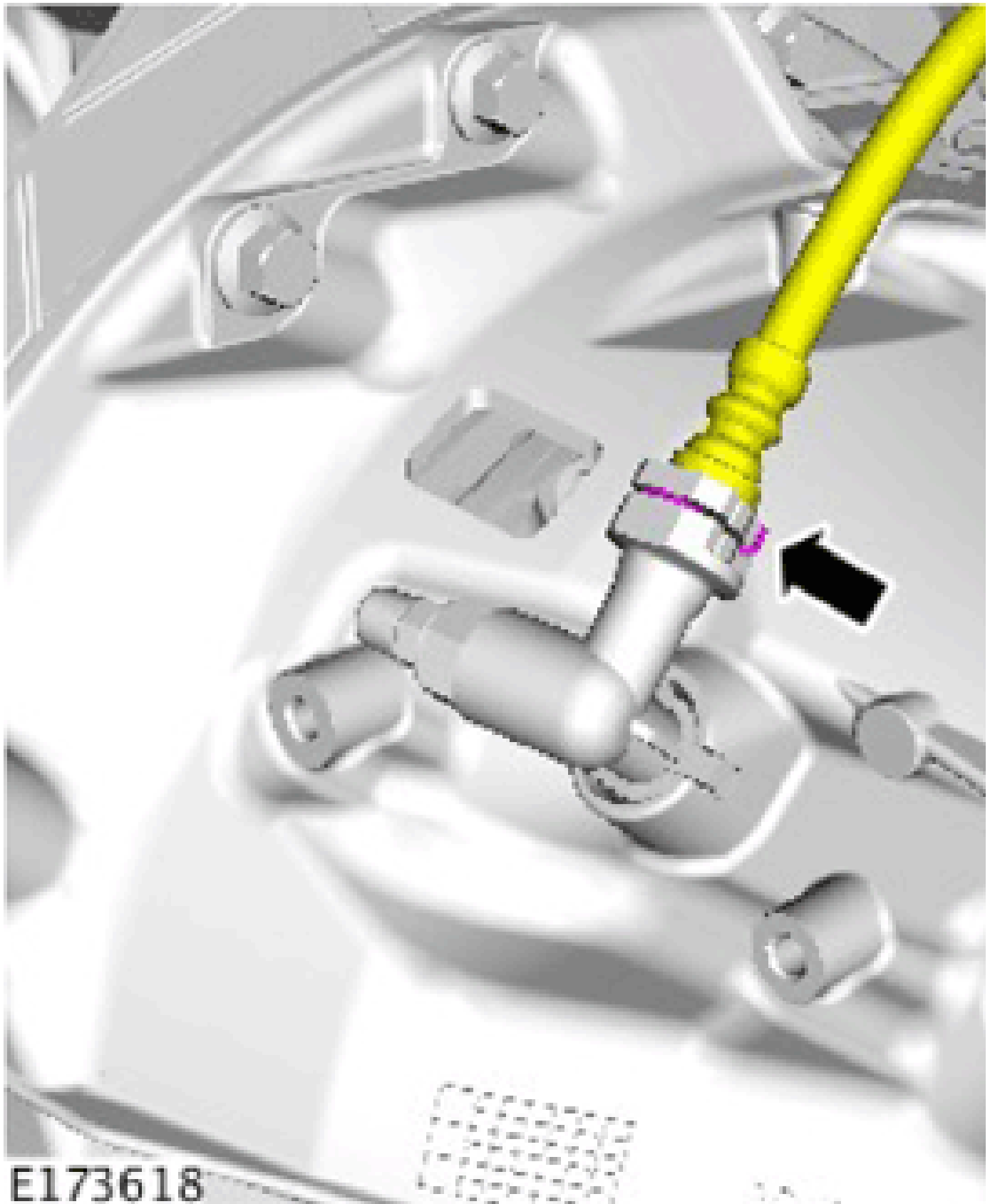
E173619

**WARNING:** Be prepared to collect escaping fluids.

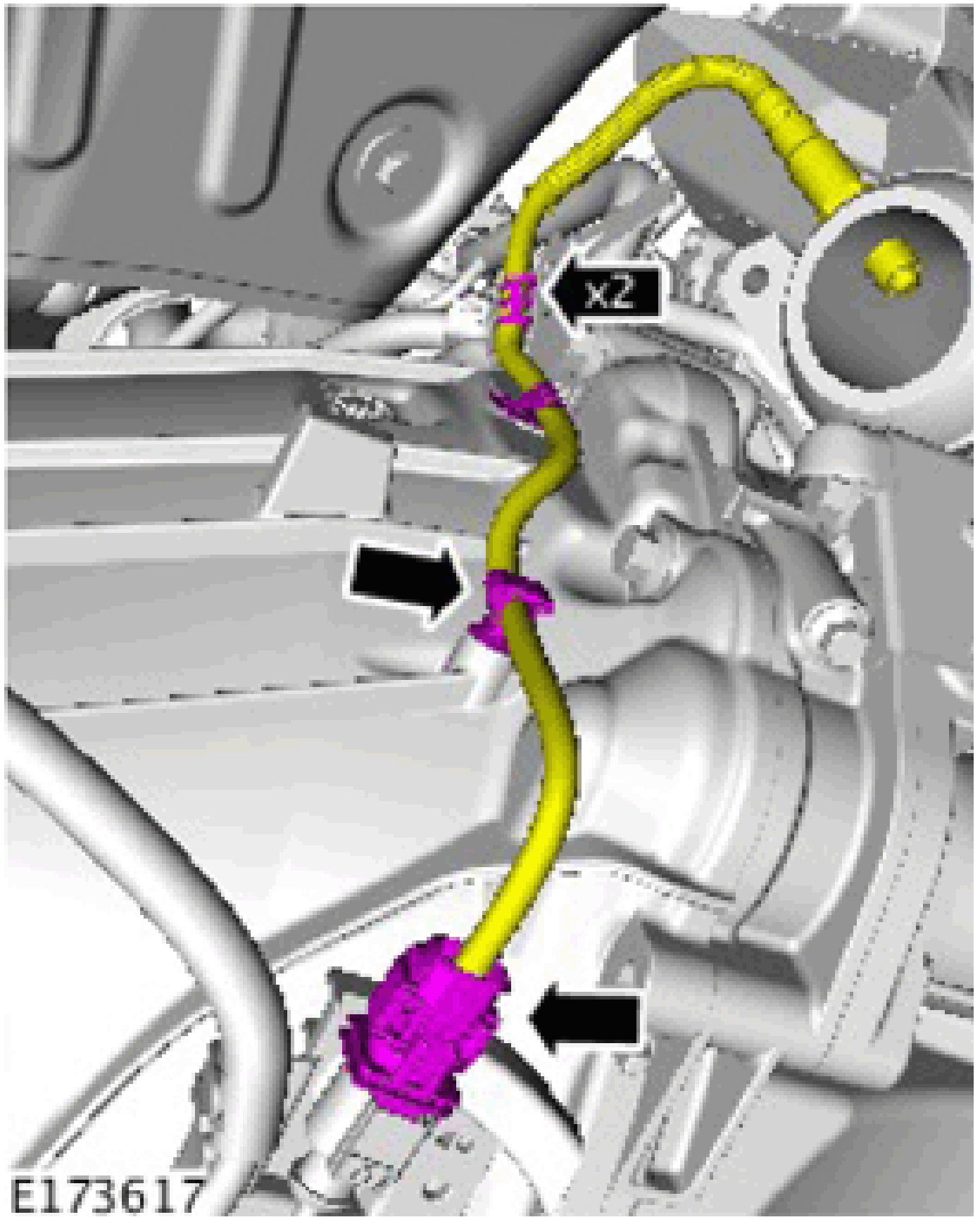
**CAUTION:** Brake fluid will damage paint finished surfaces. If spilled, immediately remove the fluid and clean the area with water.

**NOTE:** Remove and discard the blanking caps.



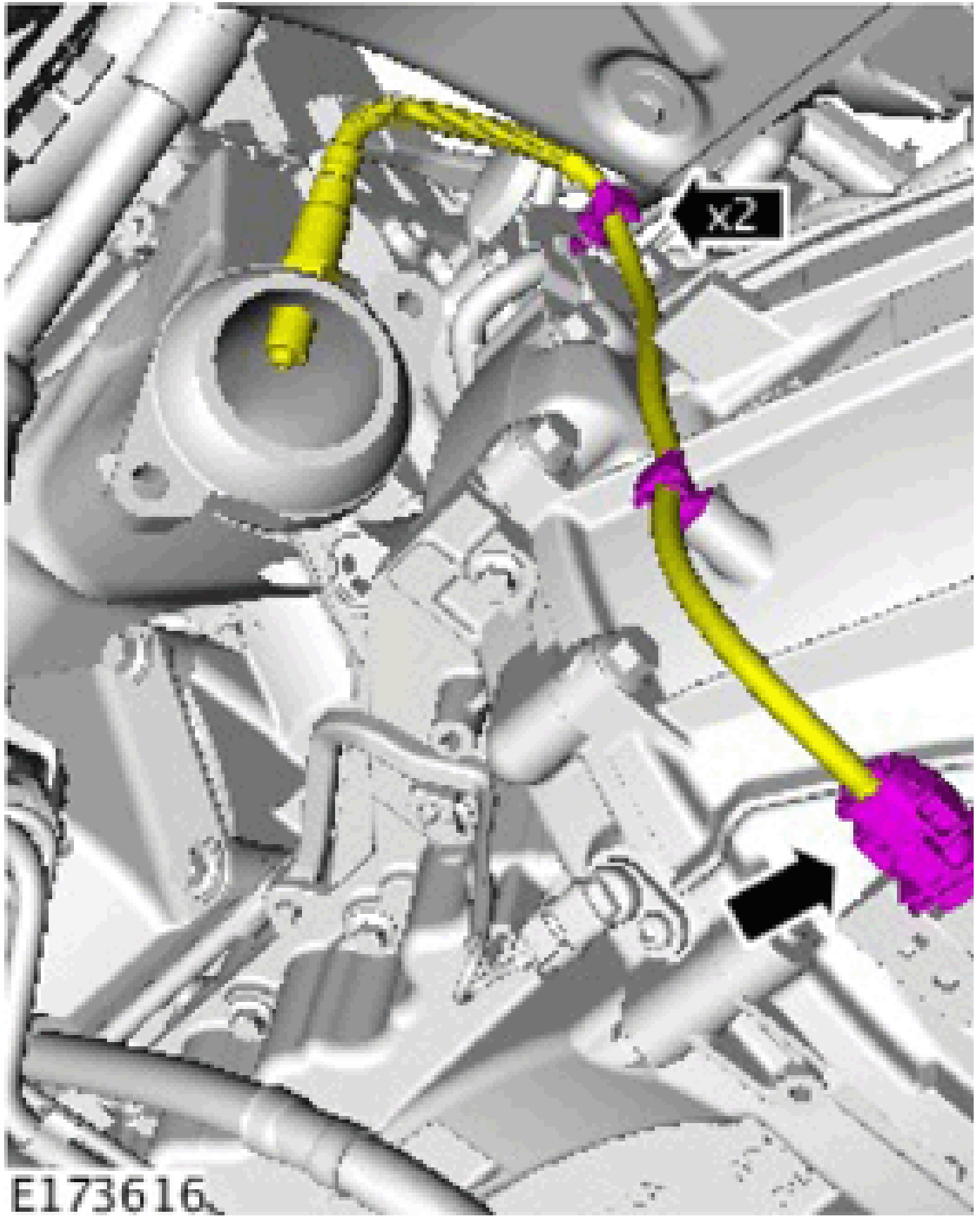


E173618



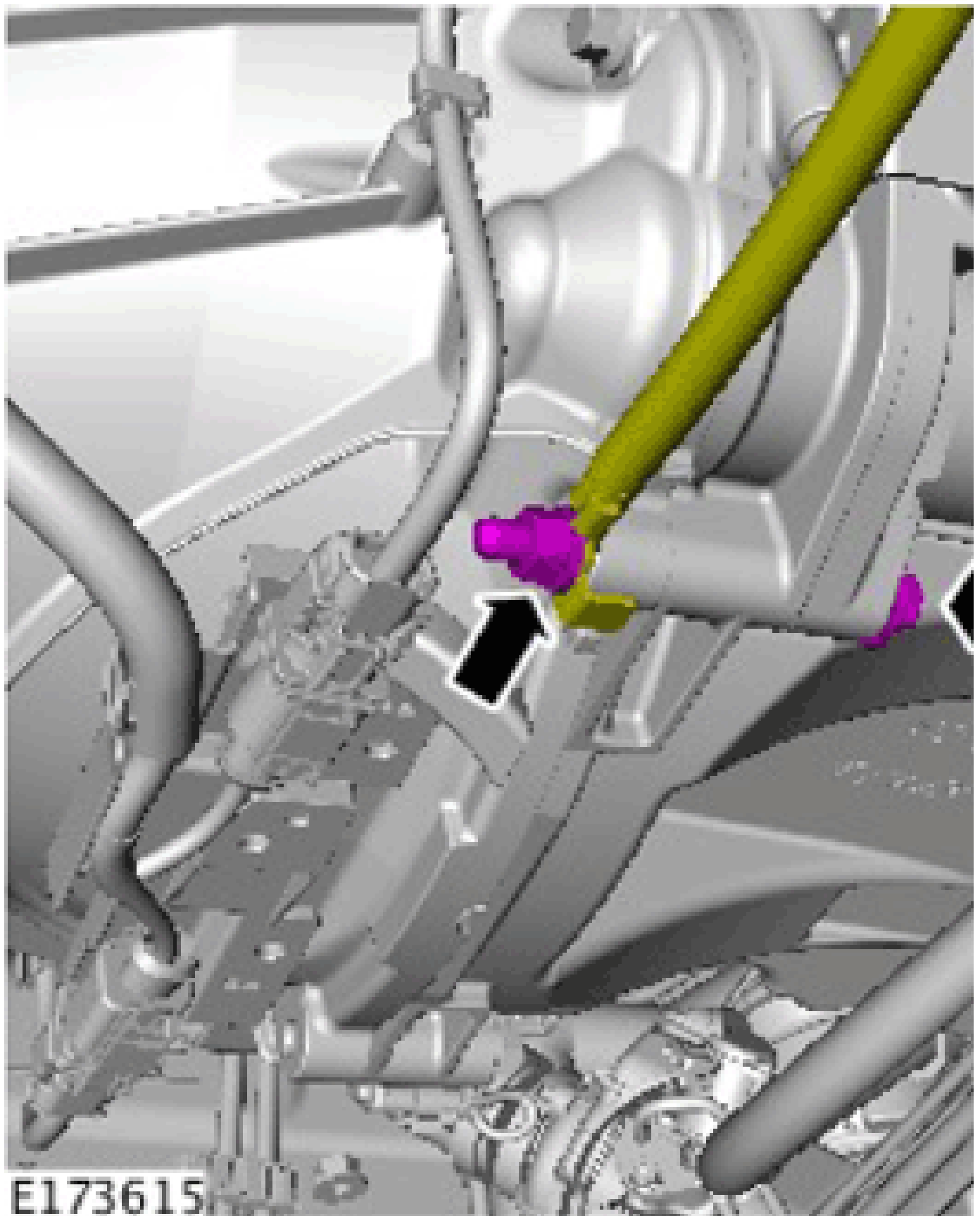
**NOTE:**

- If necessary, install new clips.



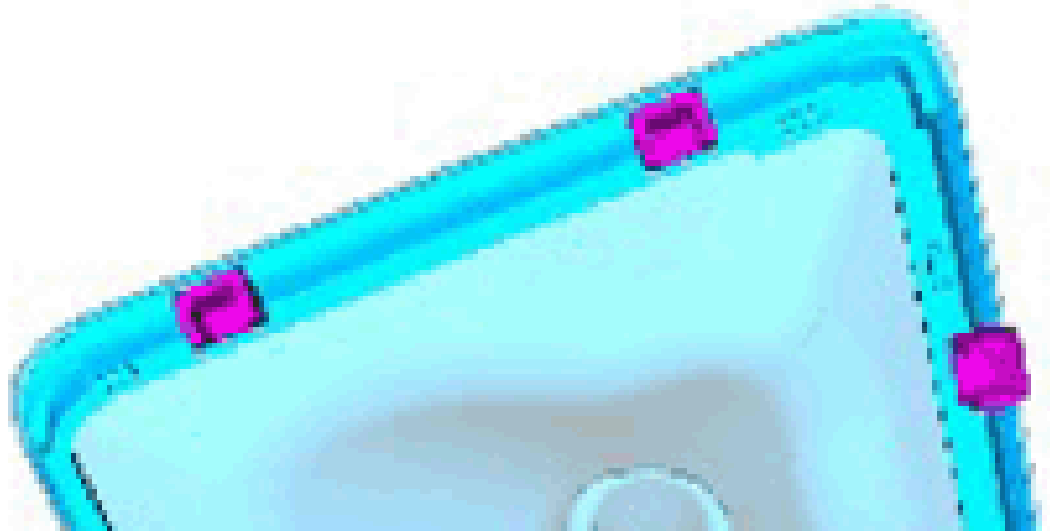
**NOTE:**

- If necessary, install new clips.



29. Refer to: [DRIVESHAFT - RWD](#) (Installation).

30. **CAUTION:** Care must be taken to avoid damaging the surrounding components.







E173614



E173715

33. Refer to: **Transmission Draining and Filling.**

34. Refer to: **Clutch System Bleeding** (General Procedures).