



LTB01251NAS1

# TECHNICAL BULLETIN

01 NOV 2018

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NOTE: The information in Technical Bulletins is intended for use by trained, professional Technicians with the knowledge, tools, and equipment required to do the job properly and safely. It informs these Technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by 'do-it-yourselfers'. If you are not a Retailer, do not assume that a condition described affects your vehicle. Contact an authorized Land Rover service facility to determine whether this bulletin applies to a specific vehicle.

## INFORMATION

## SECTION:

307-02

## SUBJECT/CONCERN:

Leak From Transmission Fluid Cooler Pipe(s)

## AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	APPLICABILITY:
Range Rover Velar (LY)	2018 Onwards	700310 Onwards	INGENIUM I4 2.0L Petrol/INGENIUM I4 2.0L Diesel

**MARKETS:**

NORTH AMERICA

**CONDITION SUMMARY:****SITUATION:**

A transmission fluid leak may be seen coming from below the vehicle and/or the customer may express concern of a lack of acceleration and/or a 'juddering' from the vehicle while driving with a transmission warning message displayed on the Instrument Cluster (IC). Upon further diagnosis, the fluid may be found leaking from the transmission fluid cooler pipe(s).

**CAUSE:**

This may be caused by excessive vibration transmitted through the transmission fluid cooler pipes while the engine is running, causing the weld joints to fracture.

**ACTION:**

Should a customer express this concern, refer to the Service Information and then follow the Workshop Procedure below.

**PARTS:**

PART NUMBER	DESCRIPTION	QUANTITY
LR113362	Transmission fluid cooler pipes - With bracket assembly installed - Ingenium I4 2.0L Diesel	1
LR092830	Transmission fluid cooler pipes - Ingenium I4 2.0L Petrol	1
LR124572	Bracket - Ingenium I4 2.0L Petrol	1
LR124573	Bracket clip - Ingenium I4 2.0L Petrol	1
FS108166	Bracket bolt	1
LR092703	Front driveshaft bolts	4
LR023288	Transmission fluid (1 Liter)	1

**TOOLS:**

Refer to Workshop Manual for any required special tools.

**WARRANTY:****△ NOTES:**

- Repair procedures are under constant review, and therefore times are subject to change; those quoted here must be taken as guidance only. Always refer to JLR claims submission system to obtain the latest repair time.
- The JLR Claims Submission System requires the use of causal part numbers. Labor only claims must show the causal part number with a quantity of zero.

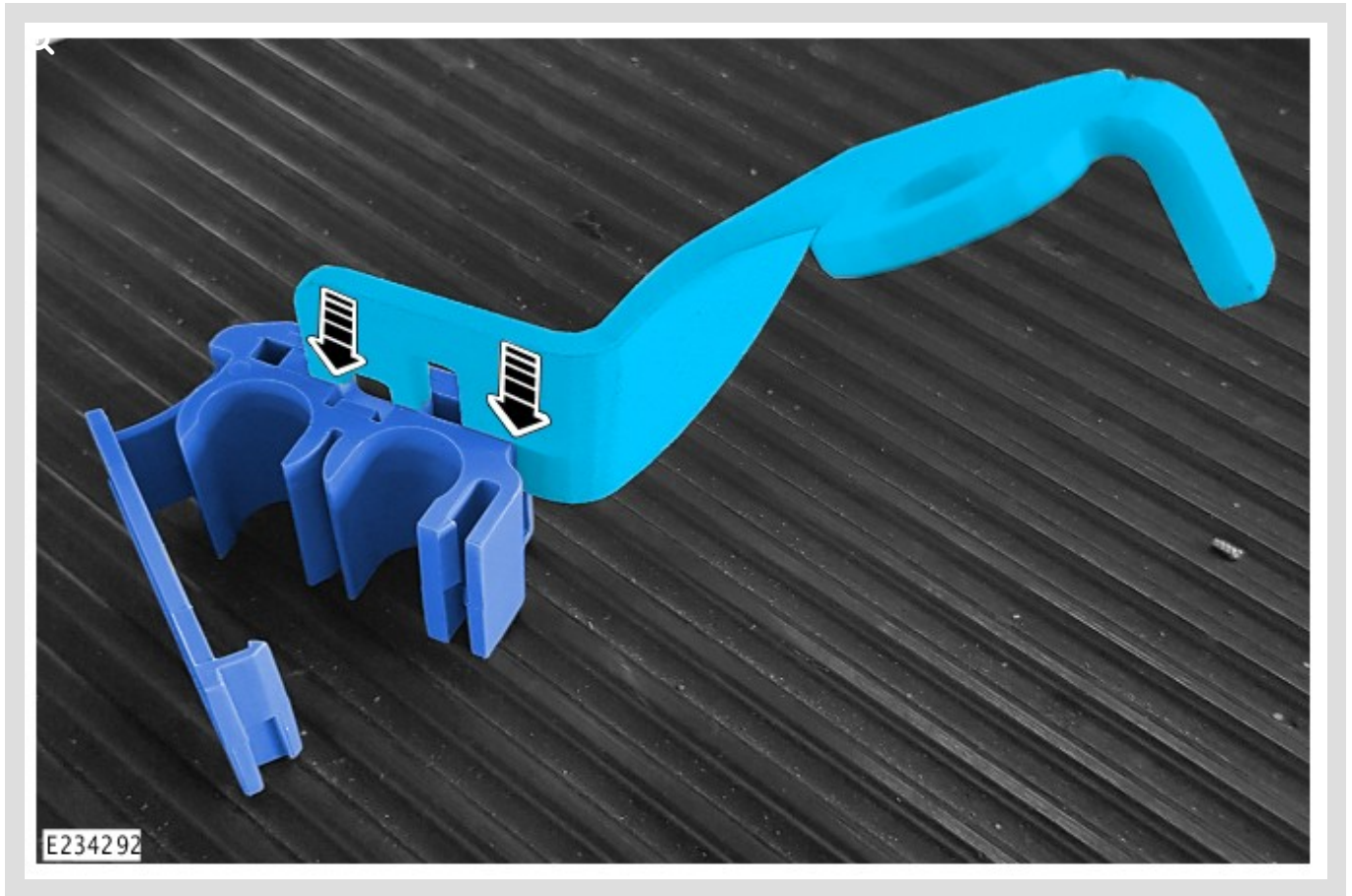
DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Transmission Fluid Cooler Pipes - Inspect - No further action	05.10.50	0.5	01	LR092827 / LR092830
Transmission Fluid Cooler Pipes - Renew	44.24.15	1.3	01	LR092827 / LR092830
Transmission fluid level inspect - Top up if required	44.24.06	1.0	01	LR092827 / LR092830

**△ NOTE:**

Normal Warranty procedures apply.

**SERVICE INFORMATION:**

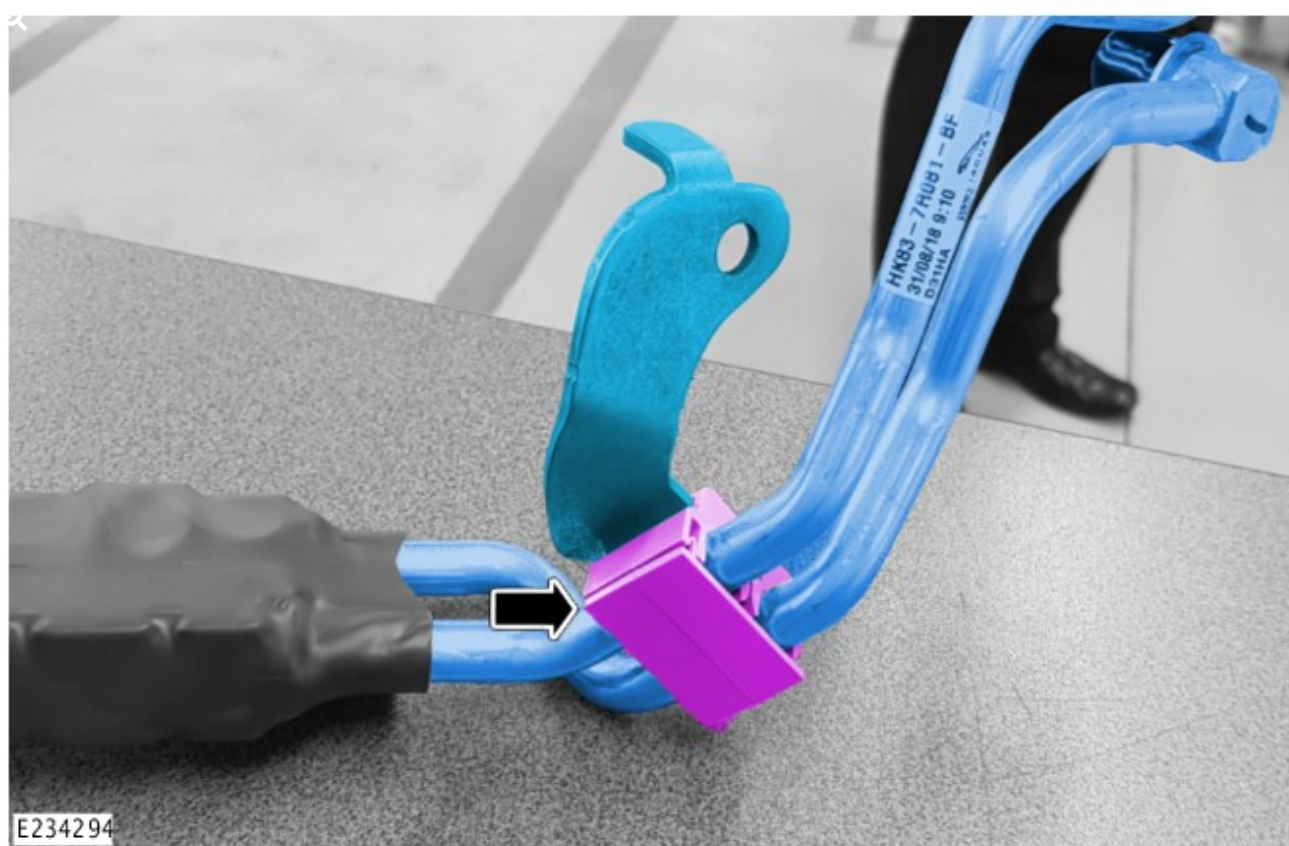
1



**Ingenium I4 2.0L Petrol vehicles:** bracket-to-bracket clip installation.

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2



**Ingenium I4 2.0L Diesel vehicles:** the bracket from the **NEW** Transmission fluid cooler pipes (LR113362) must be removed.

#### △ NOTE:

Some components are shown removed to provide extra clarity.

- 1 Raise and support the vehicle on a ramp (see TOPlx Workshop Manual section 100-02: Description and Operation - Lifting).

2

#### △ NOTE:

The undershield may also be referred to as an air deflector.

Remove the engine undershield (see TOPIx Workshop Manual section 501-02: Removal and installation - Engine Undershield).

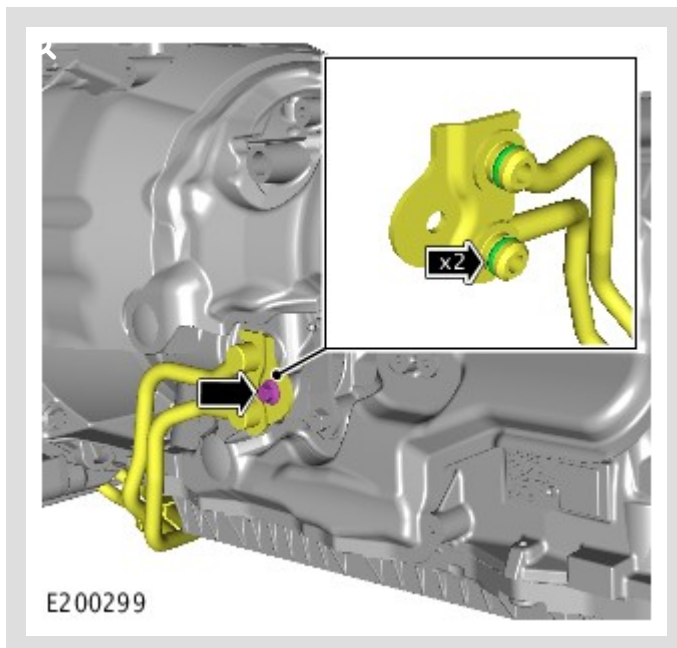
3 Inspect the condition of the transmission fluid cooler pipes.

- If the transmission fluid cooler pipes **do not** show signs of leaking, do not continue with this Technical Bulletin Workshop Procedure.
  - Raise a Technical Assistance (TA) for further assistance if required.
- If the transmission fluid cooler pipes **do** show signs of leaking, go to Step 4.

4 Remove the front driveshaft (See TOPIx workshop manual section 205-01: Removal and Installation - Front Driveshaft).

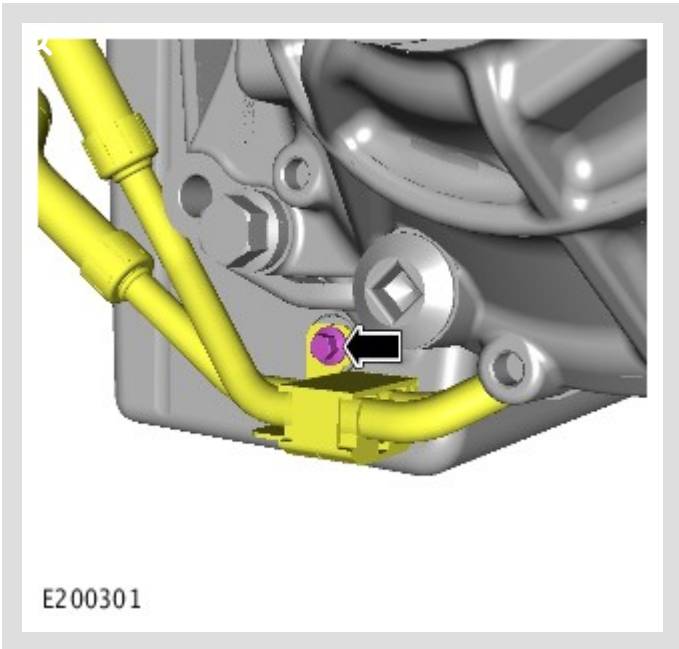
5 **CAUTION:**

Be prepared to collect escaping fluids.



Release the transmission fluid cooler pipes.

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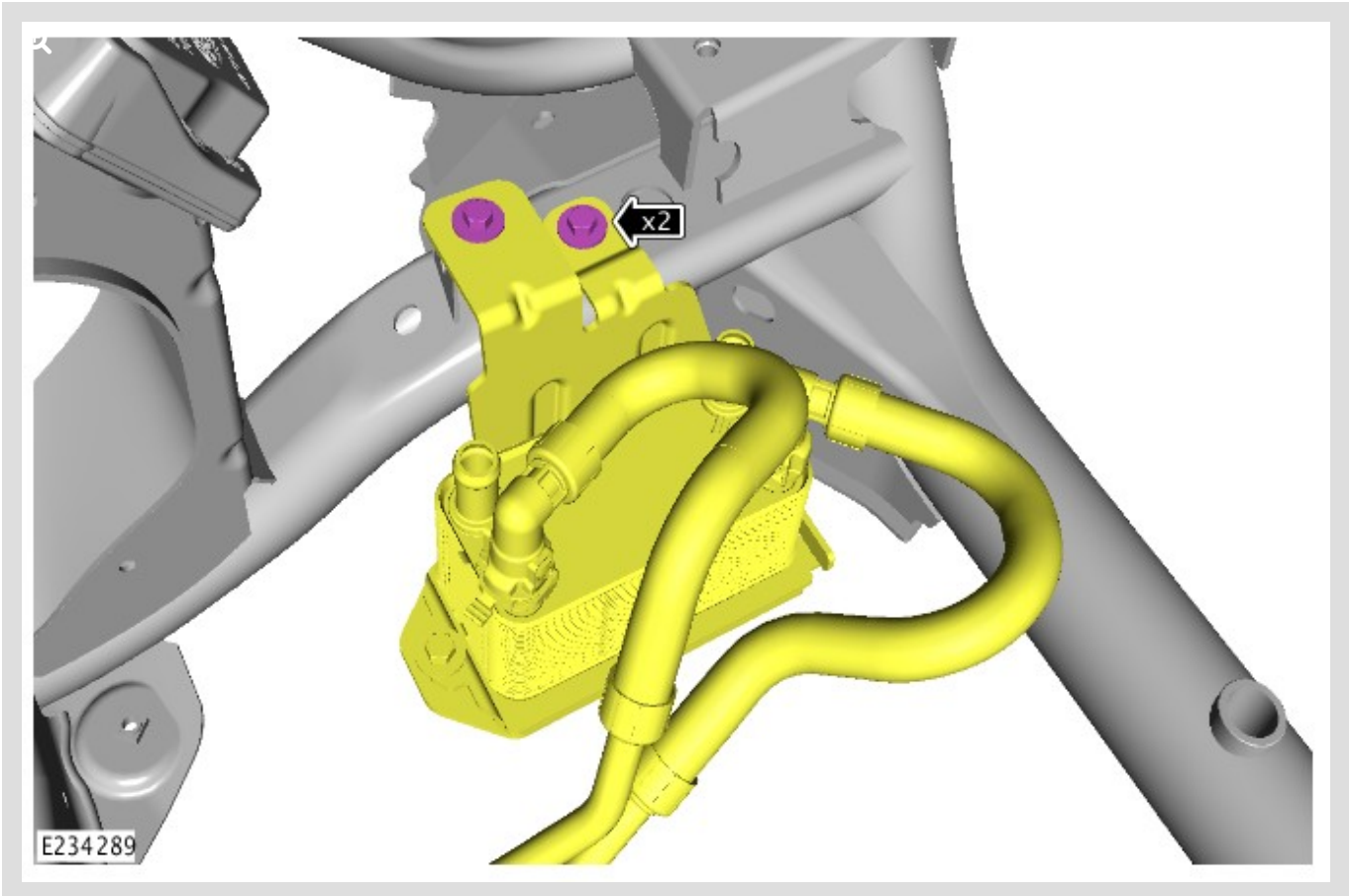


Remove the bolt securing the transmission fluid cooler pipes to the oil pan.

7

**ⓘ CAUTION:**

The transmission fluid cooler assembly must remain supported at all times.



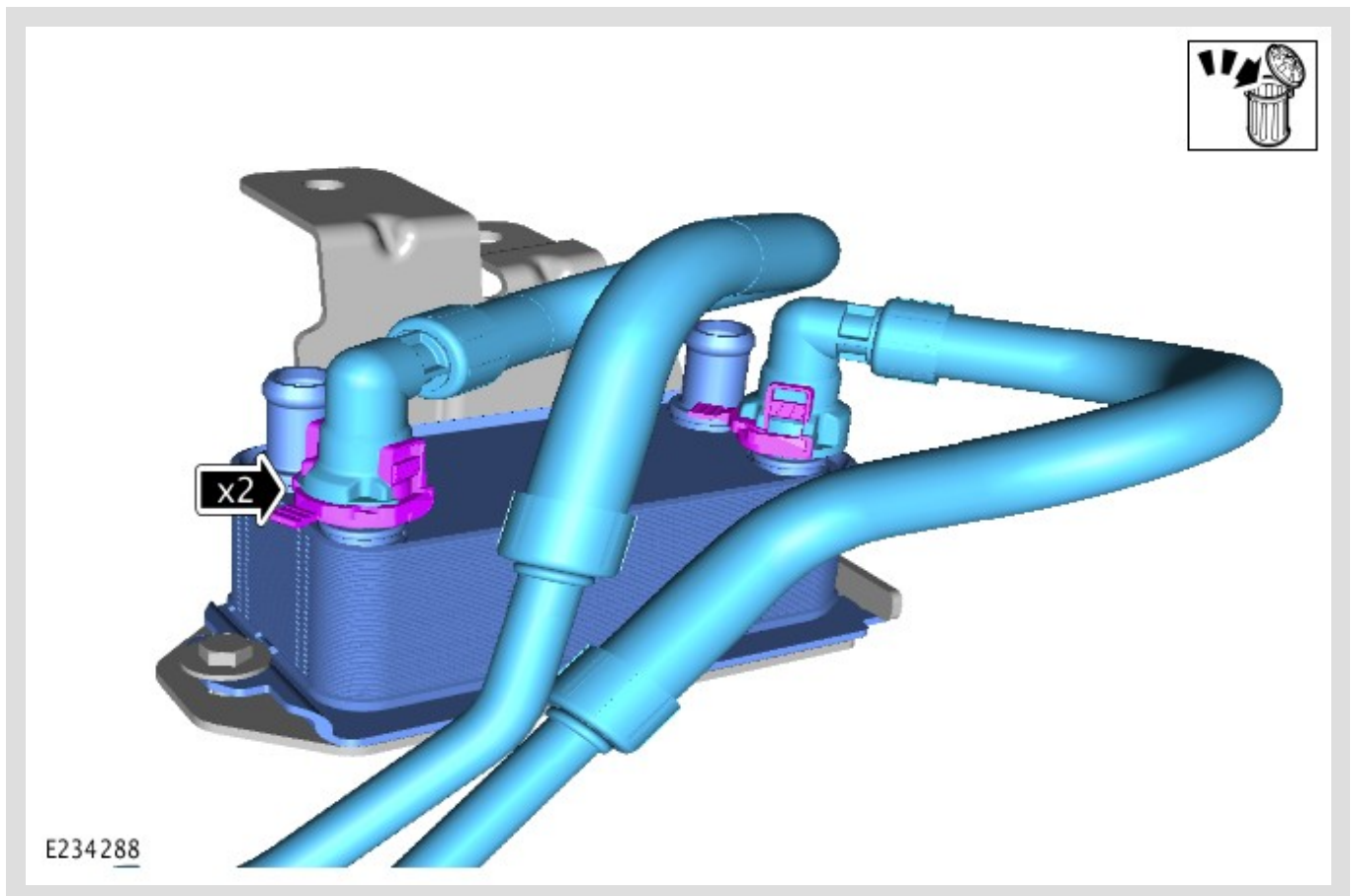


Release the transmission fluid cooler assembly from the front subframe.

8

**ⓘ CAUTION:**

The transmission fluid cooler assembly must remain supported at all times.



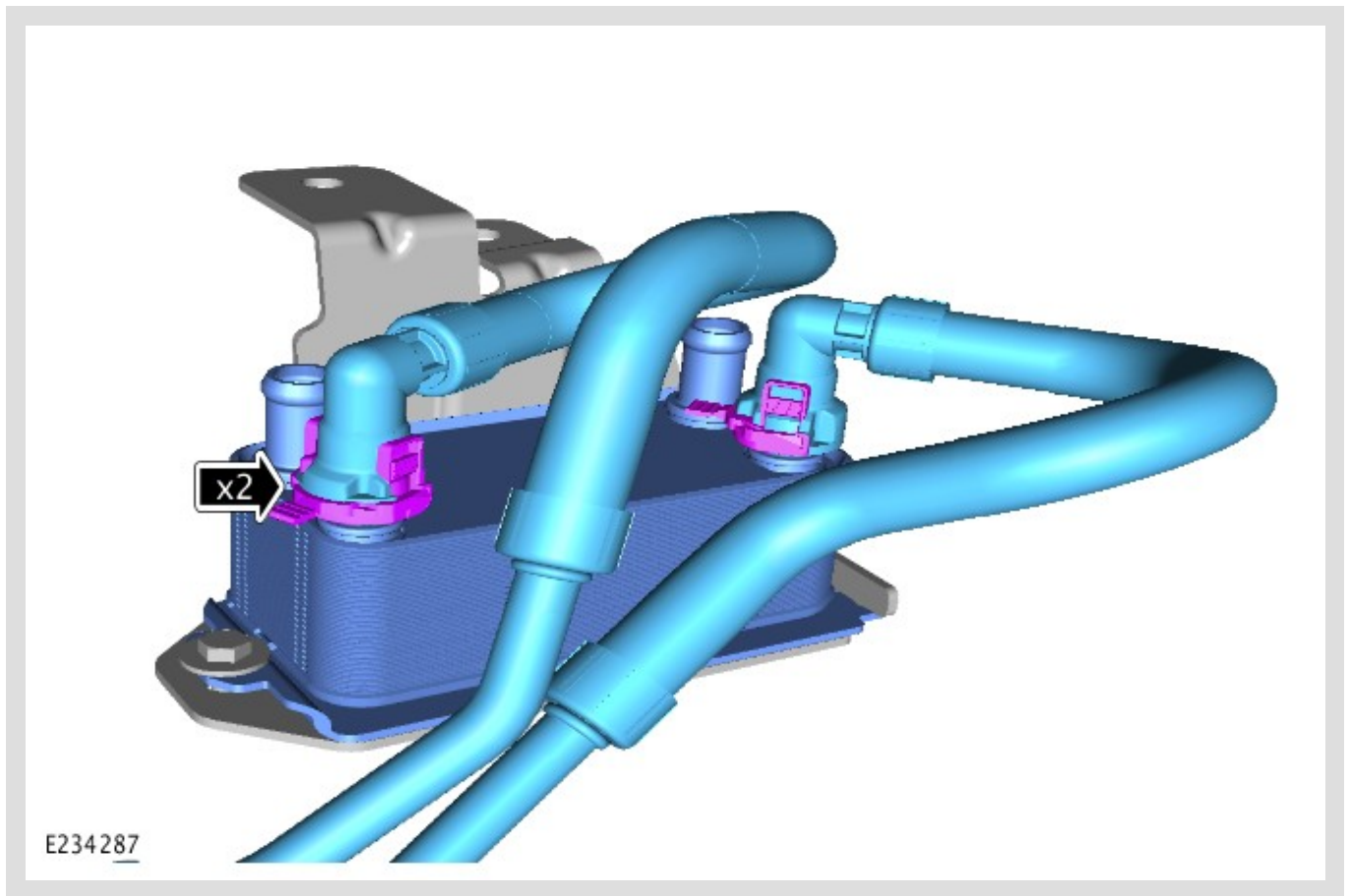
Remove and discard the transmission fluid cooler pipes.

9

**ⓘ CAUTION:**

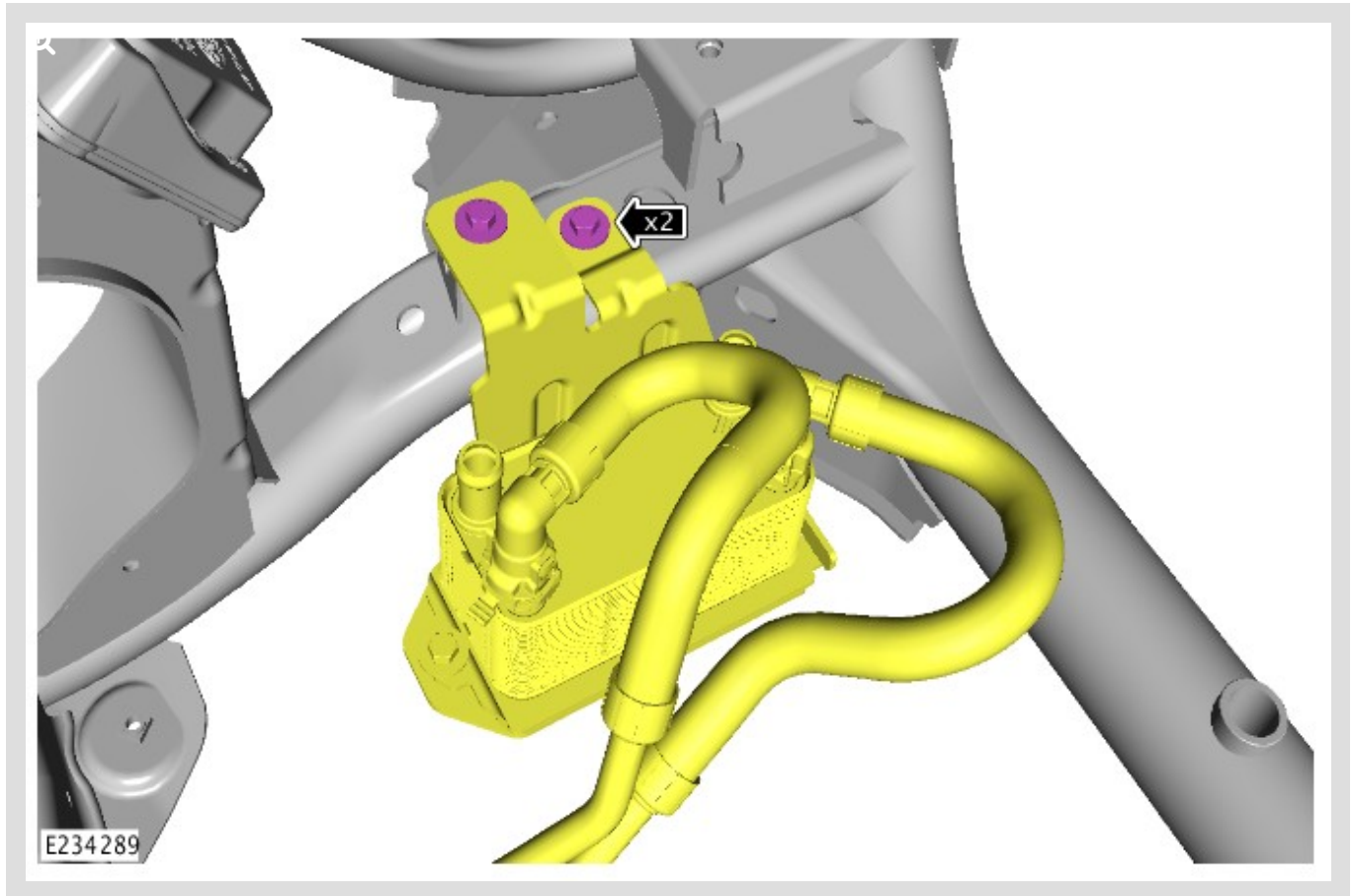
The transmission fluid cooler assembly must remain supported at all times.





Install the new transmission fluid cooler pipes to the transmission fluid cooler.

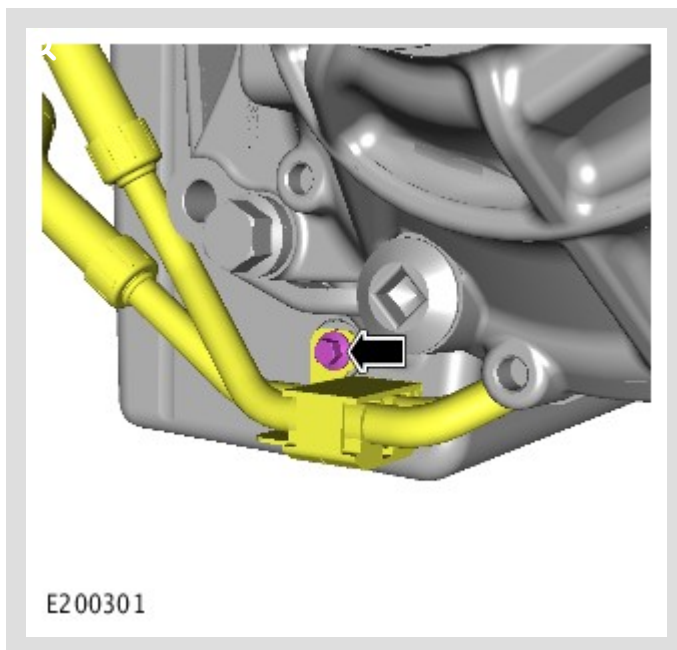
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Install the transmission fluid cooler assembly to the front subframe.

- Torque: **9 Nm**

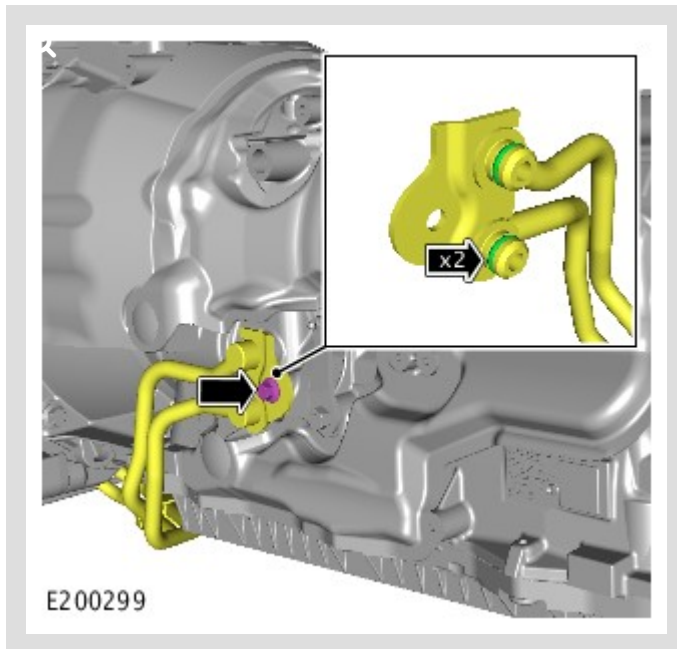
11



Install the bolt securing the transmission fluid cooler pipes to the oil pan.

- Torque: **11 Nm**

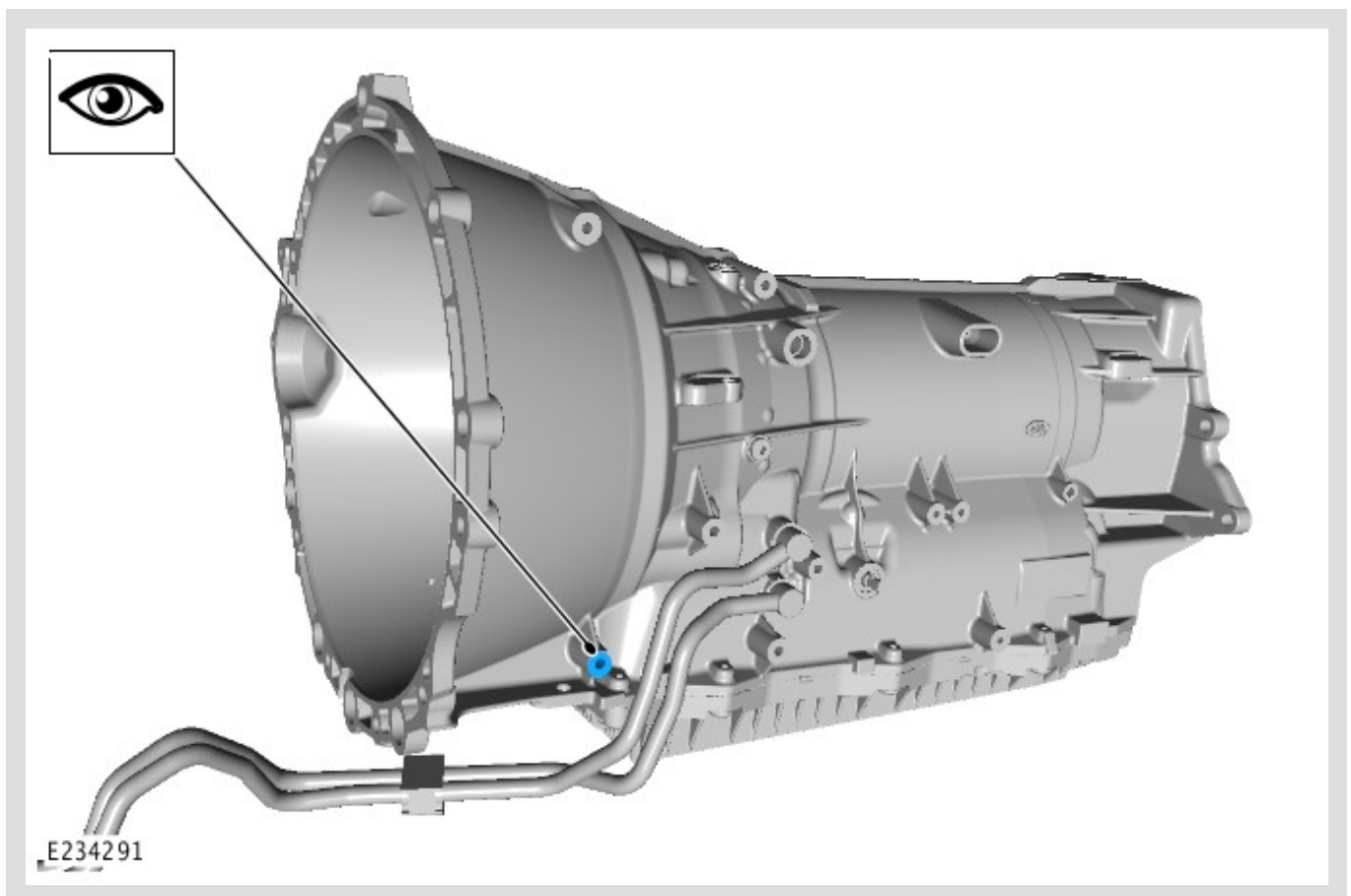
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Install the transmission fluid cooler pipes.

- Torque: **22 Nm**

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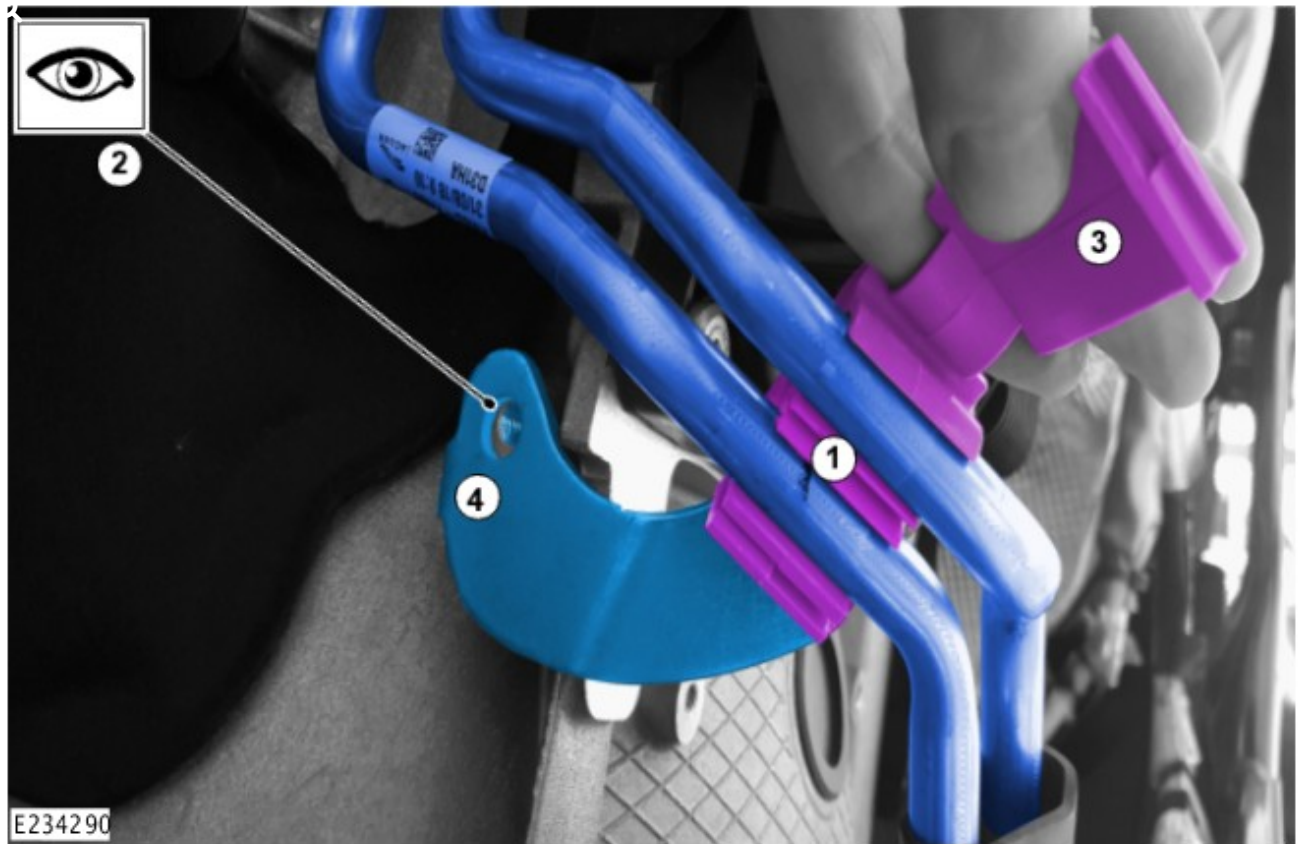


Bracket location for Step 14.

- **Ingenium I4 2.0L Petrol vehicles:** go to Step 15.

- **Ingenium I4 2.0L Diesel vehicles:** go to Step 14.

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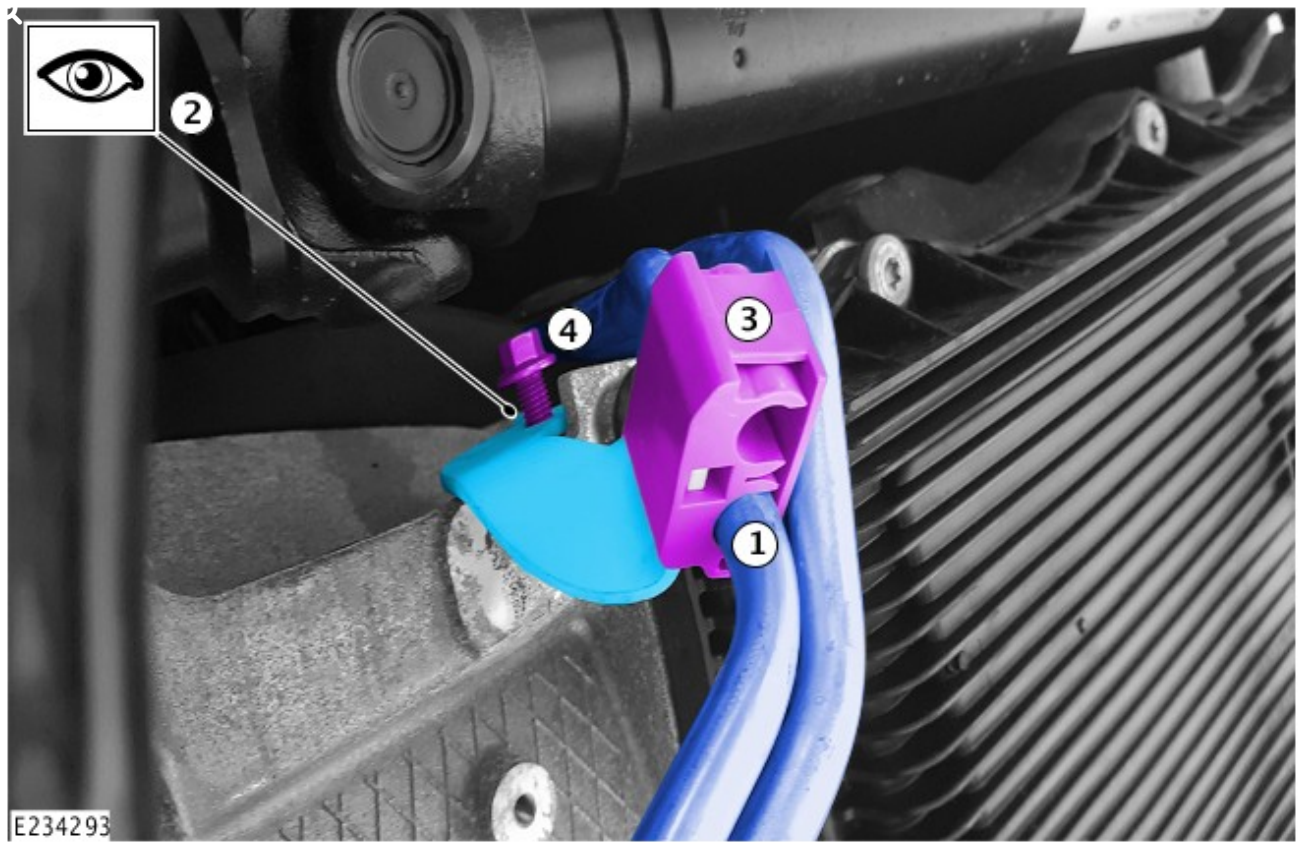


**Ingenium I4 2.0L Diesel vehicles:** install the bracket using the following method:

- 1 Position the bracket clip over the transmission fluid cooler pipes.
- 2 Make sure the bolt hole in the bracket aligns with the threaded bolt hole in the transmission.
- 3 Close the bracket clip.
- 4 Install the bolt.
  - Torque: **22 Nm**



15



**Ingenium I4 2.0L Petrol vehicles:** install the bracket using the following method:

- 1 Position the bracket clip over the transmission fluid cooler pipes in the position shown.
- 2 Make sure the bolt hole in the bracket aligns with the threaded bolt hole in the transmission.
- 3 Close the bracket clip.
- 4 Install the bolt.

■ Torque: **22 Nm**

16 Install the front driveshaft (See TOPIx workshop manual section 205-01: Removal and Installation - Front Driveshaft)

17 Inspect and top up (if required) the transmission fluid level (see TOPIx Workshop Manual section 307-01: General Procedures - Transmission Fluid Level Inspect).

18 Install the engine undershield. (see TOPIx Workshop Manual section 501-02: Removal and installation - Engine Undershield).

19

Lower the vehicle (see TOPIx Workshop Manual section 100-02: Description and Operation - Lifting).