

JLRTB02027NAS3

**TECHNICAL BULLETIN**

28 NOV 2022



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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**

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This bulletin supersedes TSB JLRTB02027NAS2/2022 dated 14 NOV 2022, which should either be destroyed or clearly marked to show it is no longer valid (e.g. with a line across the page). Only refer to the electronic version of this Technical Bulletin in TOPIx.

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**SECTION:**303-03A

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**SUBJECT/CONCERN:**'Coolant Level Low' Message Displayed On The Instrument Panel Cluster (IPC)

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**AFFECTED VEHICLE RANGE:**

MODEL:

MODEL YEAR:

VIN:

ASSEMBLY PLANT:

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:
Range Rover Velar (LY)	2018	700000-778647	Solihull
Range Rover Velar (LY)	2019	739707-799998	Solihull
Range Rover Velar (LY)	2020	217285-289848	Solihull
F-PACE (X761)	2017	045000-045118	Solihull
F-PACE (X761)	2017-2020	100000-661227	Solihull

**MARKETS:****NORTH AMERICA****CONDITION SUMMARY:****SITUATION:**

A 'Coolant Level Low' message may be displayed on the Instrument Panel Cluster (IPC) and/or a fluid leak is visible under the vehicle.

**CAUSE:**

Flexing of the auxiliary radiator assembly within the mounting structure is causing cracking, resulting in an engine coolant leak.

**ACTION:**

Follow the instruction(s) below.

**PARTS:**

PART NUMBER	DESCRIPTION	QUANTITY
<b>F-PACE only</b>		
T4A37970	Auxiliary radiator assembly - Right	1
T4A37971	Auxiliary radiator assembly - Left - If applicable	1

PART NUMBER	DESCRIPTION	QUANTITY
JLM209722	Engine coolant - 1 liter(s)	1
<b>Range Rover Velar only</b>		
LR140294	Auxiliary radiator assembly - Right	1
LR140296	Auxiliary radiator assembly - Left - If applicable	1
STC50529	Engine coolant - 1 liter(s)	1
LR137976	Auxiliary radiator duct - Right	1
LR137977	Auxiliary radiator duct - Left	1

**WARRANTY:****NOTE:**

\* When submitting your Warranty claim within the Warranty portal, use the Condition Code list shown to select the Condition Code which best describes the vehicle defect.

**NOTES:**

- Repair procedures are under constant review, and therefore times are subject to change; those quoted here must be taken as guidance only. Use TOPIx 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.

**F-PACE**

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Cooling system - Pressure test	26.10.07	0.2	*	T4A1806

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Auxiliary radiator duct - Single - Modification	99.01.07	0.2	*	T4A1806
Auxiliary radiator duct - Pair - Modification	99.01.08	0.4	*	T4A1806
3.0 TDV6 Diesel, V6 3.0L S/C Petrol and V8 5.0L S/C Petrol - Auxiliary radiator - Right - Renew	26.40.09	1.2	*	T4A1806
3.0 TDV6 Diesel, V6 3.0L S/C Petrol and V8 5.0L S/C Petrol - Auxiliary radiator - Vehicle Pair - Renew	99.01.90	1.5	*	T4A1806
Ingenium I4 2.0L Petrol - Auxiliary radiator - Right - Renew	26.40.09	1.3	*	T4A1806
Ingenium I4 2.0L Petrol - Auxiliary radiator - Vehicle Pair - Renew	99.01.90	1.6	*	T4A1806
Ingenium I4 2.0L Diesel, GTDi 2.0L Petrol, - Auxiliary radiator - Right - Renew	26.40.09	1.1	*	T4A1806
Ingenium I4 2.0L Diesel, GTDi 2.0L Petrol, - Auxiliary radiator - Vehicle Pair - Renew	99.01.90	1.4	*	T4A1806

## Range Rover Velar

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Cooling system - Pressure test	26.10.07	0.2	*	LR092120
Auxiliary radiator duct - Single - Renew	99.02.20	0.1	*	LR092120
Auxiliary radiator duct - Pair - Renew	99.02.21	0.1	*	LR092120
Ingenium I4 2.0L Diesel, Ingenium I4 2.0L Petrol - Auxiliary radiator - Right - Renew	26.40.09	1.3	*	LR092120
Ingenium I4 2.0L Diesel, Ingenium I4 2.0L Petrol - Auxiliary radiator - Vehicle Pair - Renew	99.01.90	1.6	*	LR092120
V6 3.0L S/C Petrol and V8 5.0L S/C Petrol - Auxiliary radiator - Right - Renew	26.40.09	1.2	*	LR092120

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
V6 3.0L S/C Petrol - Auxiliary radiator - Vehicle Pair - Renew	99.01.90	1.5	*	LR092120
V8 5.0L S/C Petrol - Auxiliary radiator - Vehicle Pair - Renew	99.01.90	1.9	*	LR092120
TDV6 3.0L Diesel - Auxiliary radiator - Right - Renew	26.40.09	1.4	*	LR092120
TDV6 3.0L Diesel - Auxiliary radiator - Vehicle Pair - Renew	99.01.90	1.7	*	LR092120

**NOTE:**

Normal Warranty procedures apply.

## SERVICE INSTRUCTION 1

**ALL VEHICLES**

1.

**CAUTION:**

Wait until the engine has cooled before removing the engine coolant expansion tank pressure cap.

Complete an engine cooling system pressure test, (see TOPIx workshop manual section 303-03: General Procedures - Cooling System Pressure Test).

- If engine coolant can be seen leaking from the auxiliary radiator(s) area, **continue to service instruction 2 below.**
- If engine coolant cannot be seen leaking from the auxiliary radiator(s) area, **do not continue with this technical bulletin. Continue to diagnose the concern, (see TOPIx workshop manual section 303-03: Diagnosis and Testing - Engine cooling).**

## SERVICE INSTRUCTION 2

**F-PACE VEHICLES****NOTES:**

- Illustrations may vary but the essential information is always correct.
- Some components may be removed from the vehicle to provide extra clarity.

1.

**NOTE:**

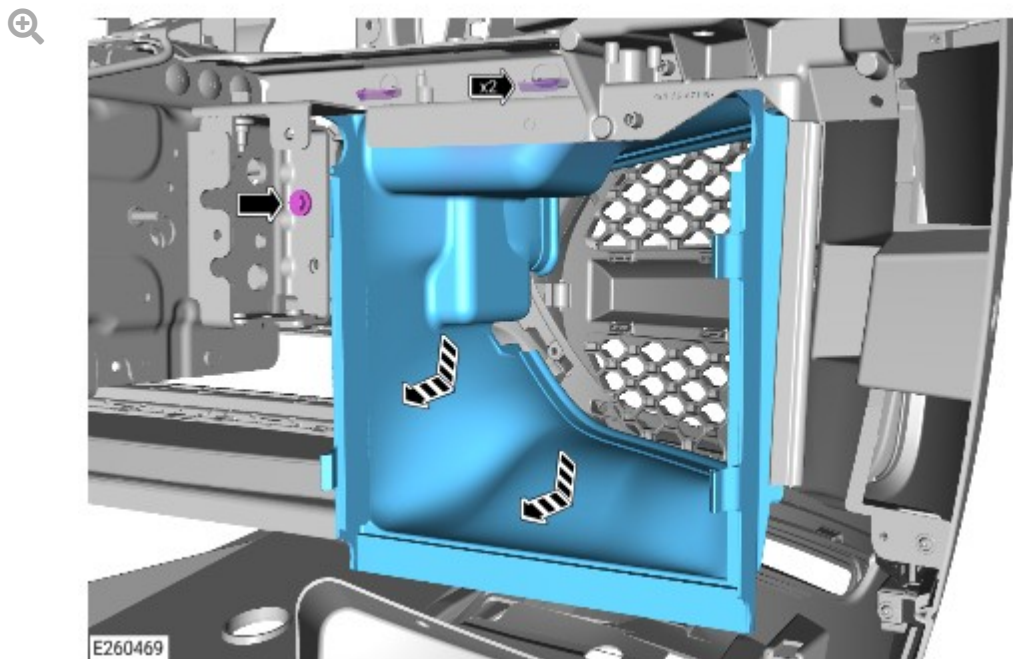
Repeat this step to the other side of the vehicle, if required.

Remove and discard the auxiliary radiator, (see TOPIx workshop manual section 303-03: Removal and Installation - Auxiliary Radiator).

2.

**NOTE:**

Repeat this step to the other side of the vehicle, if required.

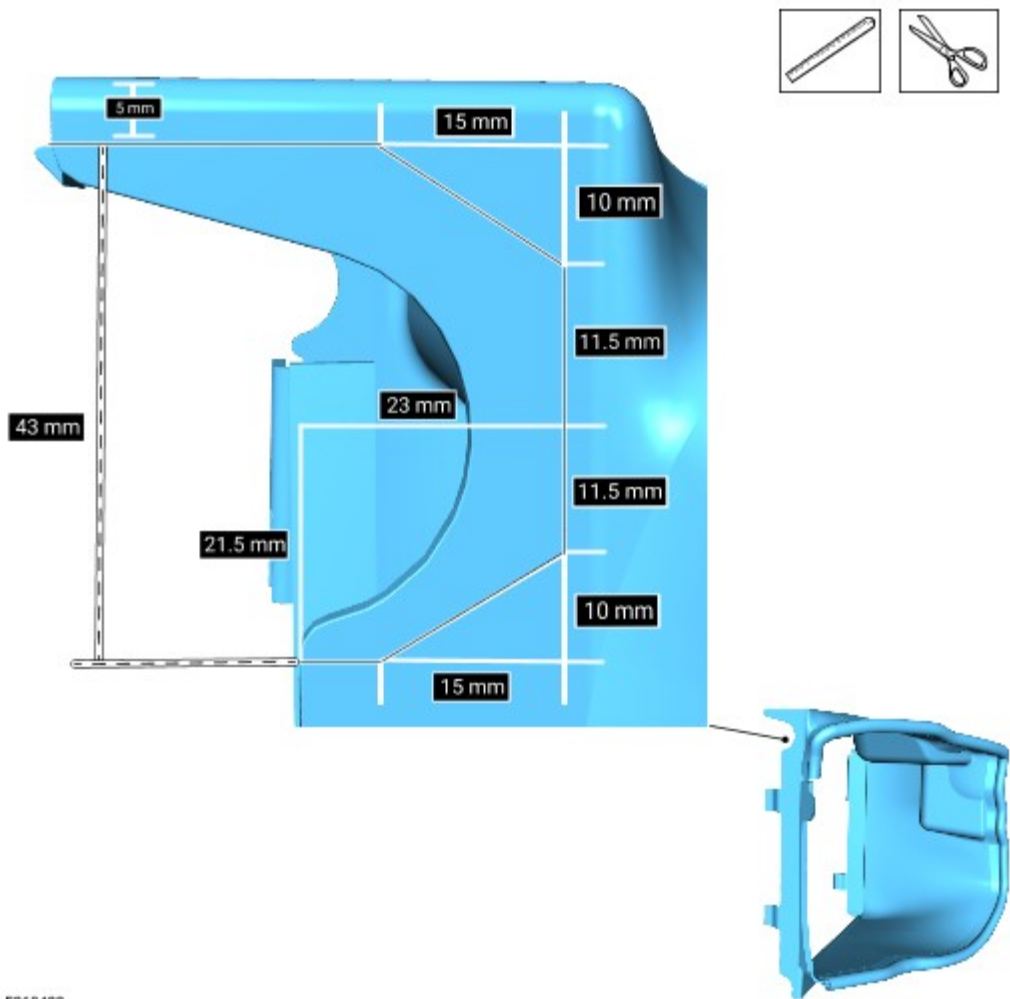


Remove the auxiliary radiator duct.

3.

**NOTE:**

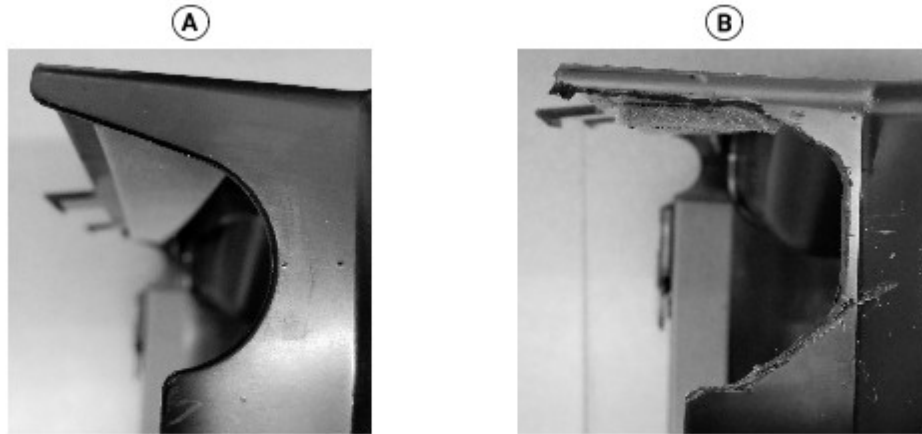
Repeat this step to the other side of the vehicle, if required.



E260482

Modify the auxiliary radiator duct using the measurements illustrated as a guide. Step 4 shows a 'before' image and an 'after' to also be referenced.

4.



E261712

The illustration marked 'A' shows an image of the auxiliary radiator duct before completing the modification in step 3.

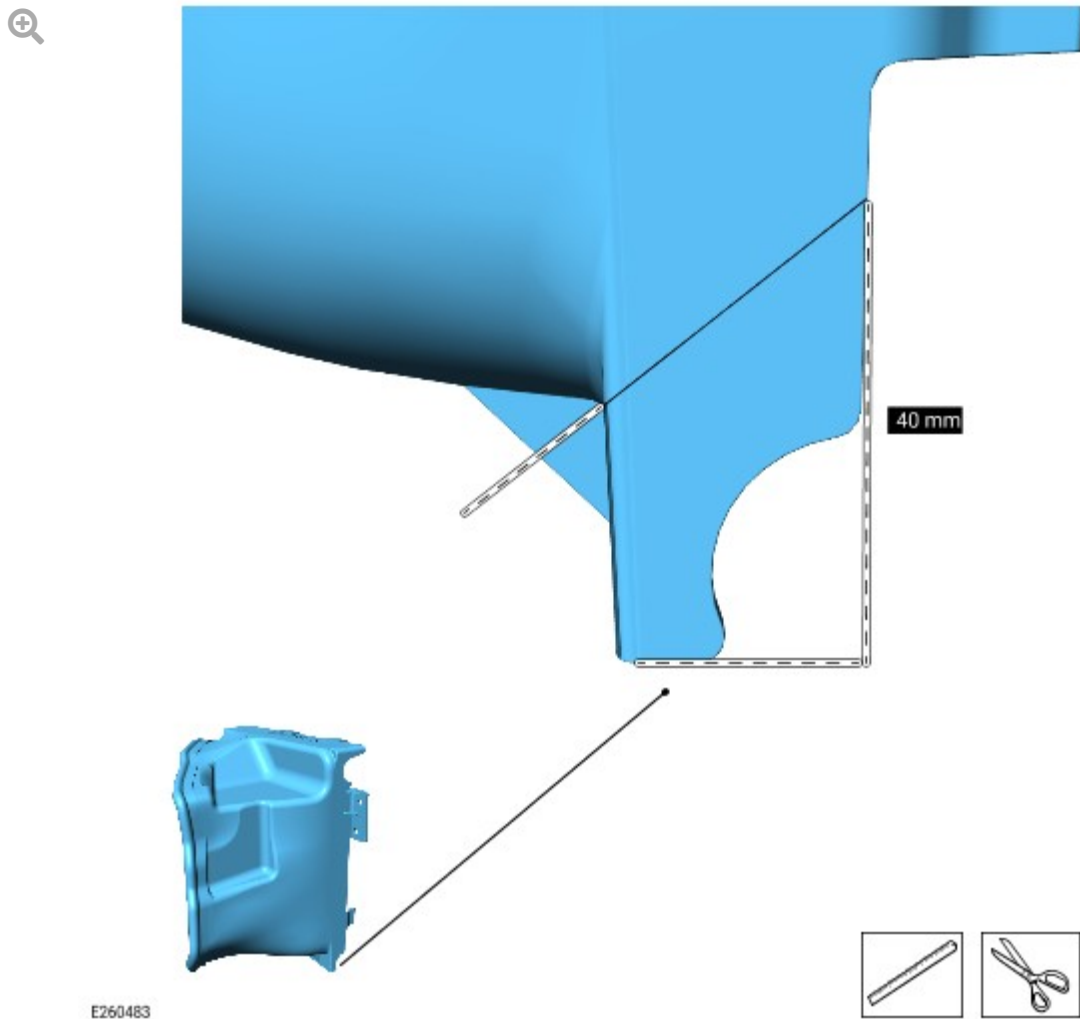
- The illustration marked 'B' shows an image of the auxiliary radiator duct after completing the modification in step 3.



5.

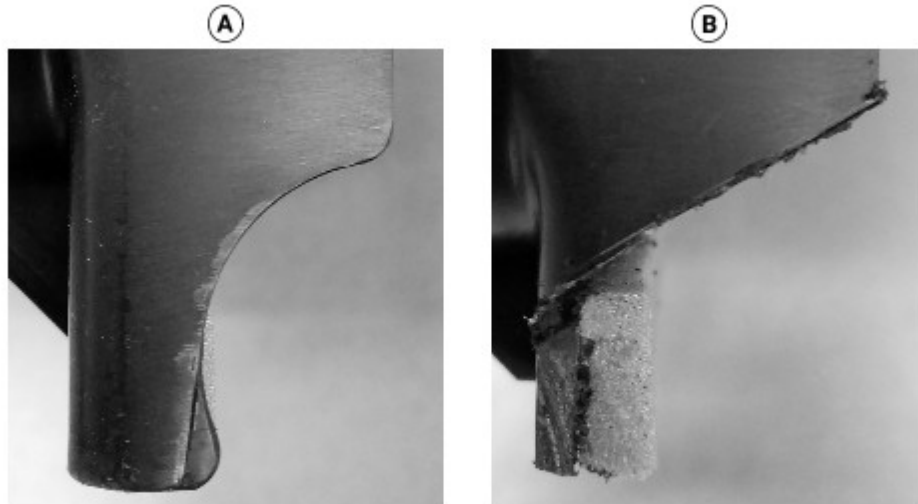
**NOTE:**

Repeat this step to the other side of the vehicle, if required.



Modify the auxiliary radiator duct using the measurement illustrated as a guide. Step 6 shows a 'before' image and an 'after' to also be referenced.

6.



E261711

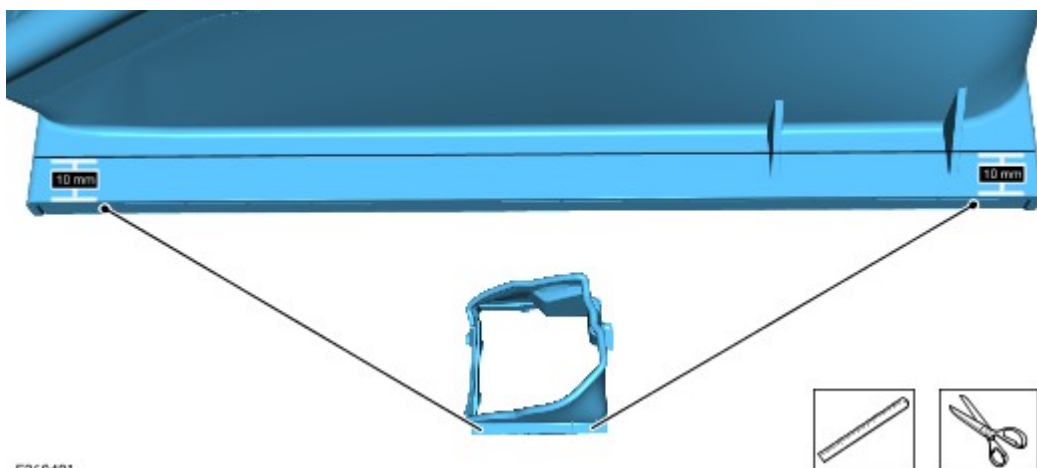
The illustration marked 'A' shows an image of the auxiliary radiator duct before completing the modification in step 5.

- The illustration marked 'B' shows an image of the auxiliary radiator duct after completing the modification in step 5.

7.

**NOTE:**

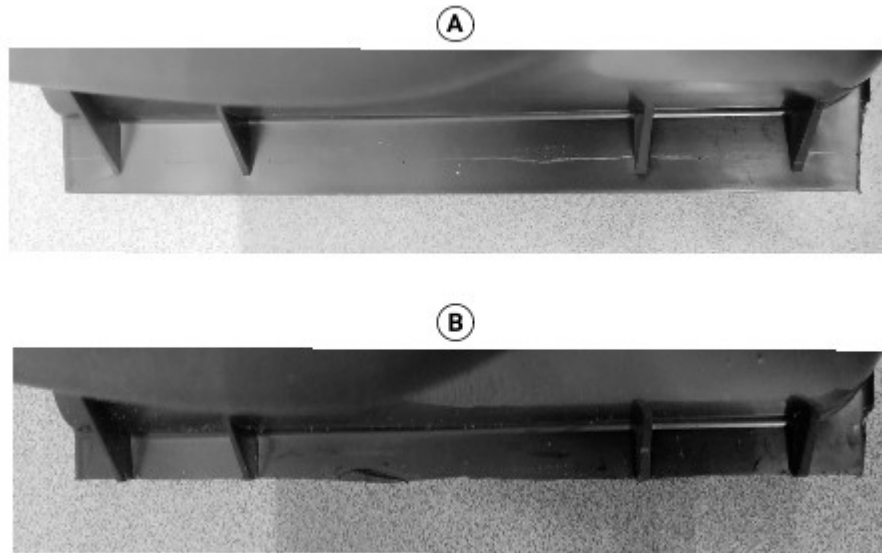
Repeat this step to the other side of the vehicle, if required.



E260481

Modify the auxiliary radiator duct using the measurements illustrated as a guide. Step 8 shows a 'before' image and an 'after' to also be referenced.

8.



E261713

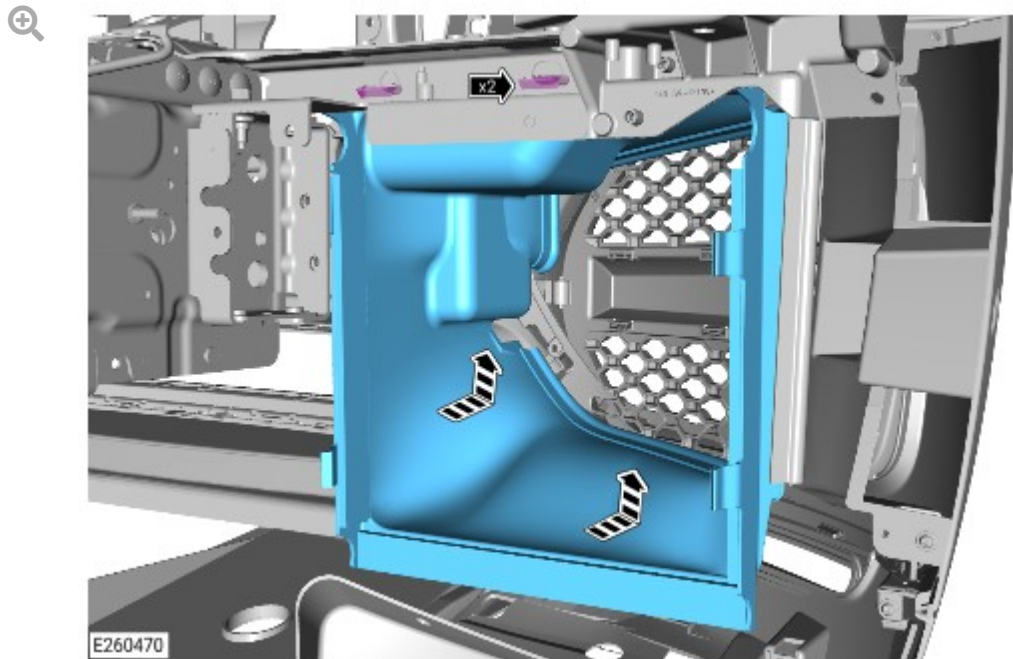
The illustration marked 'A' shows an image of the auxiliary radiator duct before completing the modification in step 7.

- The illustration marked 'B' shows an image of the auxiliary radiator duct after completing the modification in step 7.

9.

**NOTE:**

Repeat this step to the other side of the vehicle, if required.



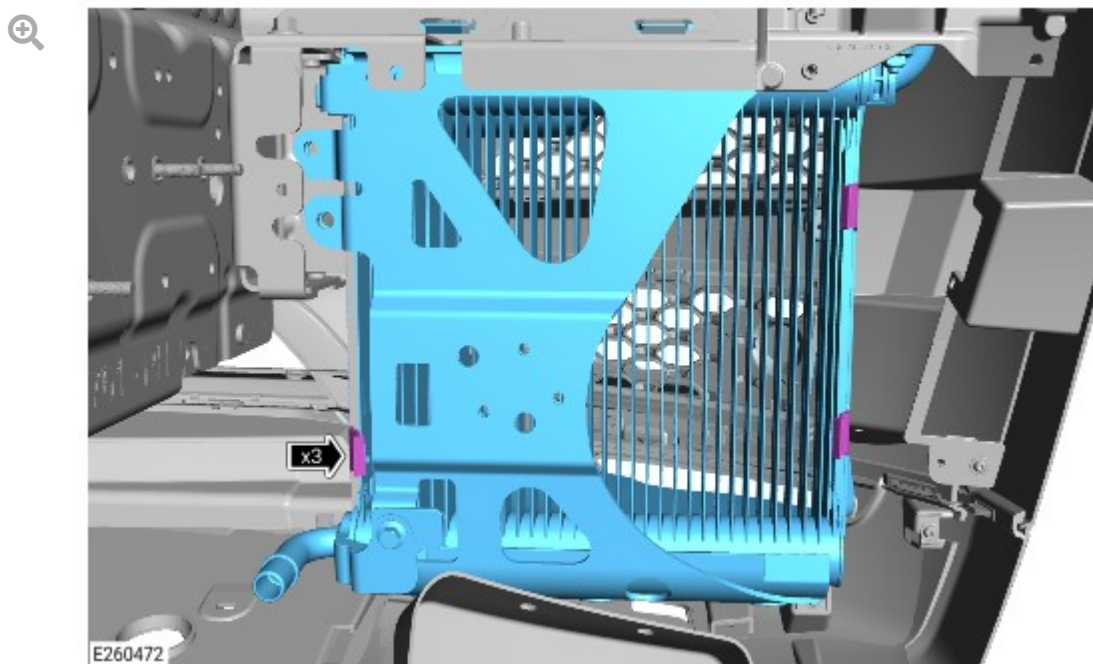
Install the modified auxiliary radiator duct.

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10.

**NOTE:**

Repeat this step to the other side of the vehicle, if required.



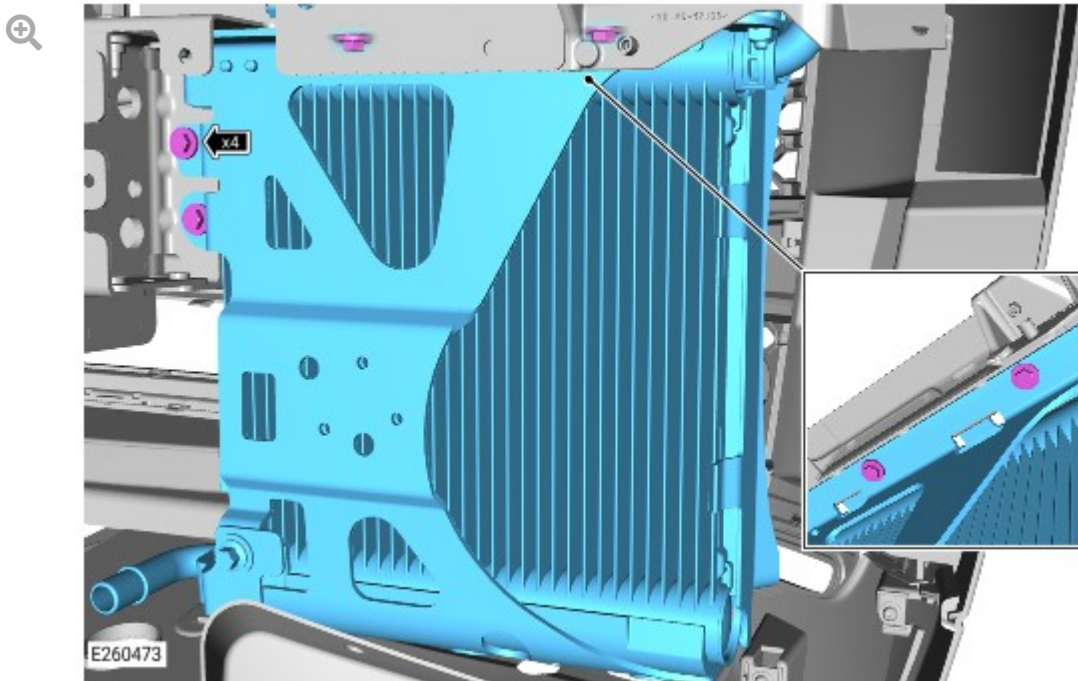
Install the new auxiliary radiator, making sure the 3 clips are correctly installed.

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11.

**NOTE:**

Repeat this step to the other side of the vehicle, if required.



Install the new auxiliary radiator fixings.

- Torque: **7 Nm**

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12. See TOPIx workshop manual section 303-03: Engine Cooling - Removal and Installation - Auxiliary Radiator. Complete all installation steps, as required.

**SERVICE INSTRUCTION 2**

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**RANGE ROVER VELAR VEHICLES**

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1.

**NOTE:**

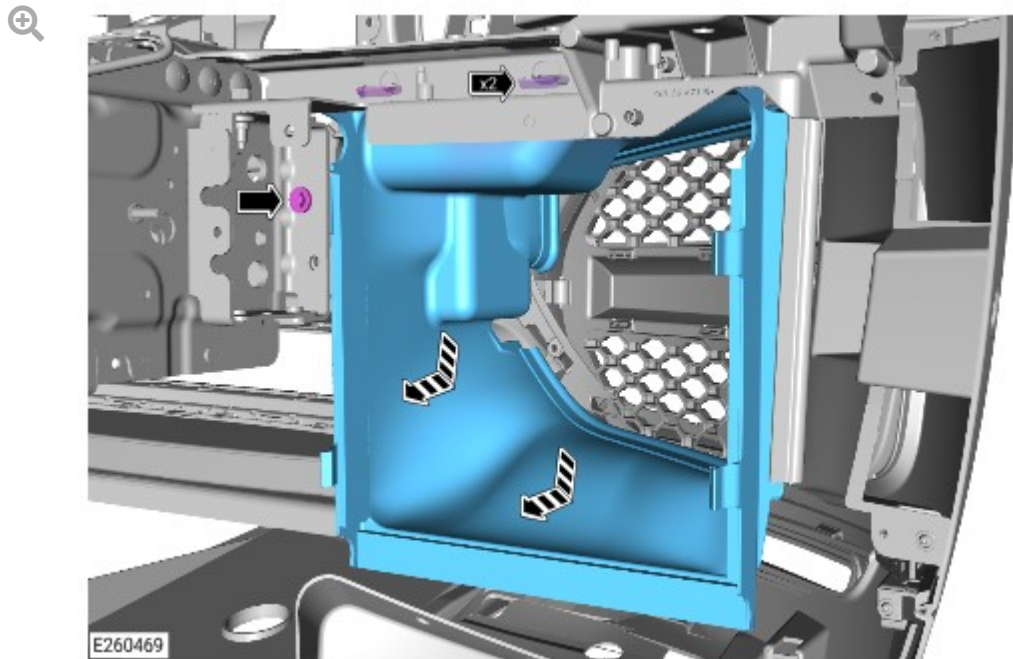
Repeat this step to the other side of the vehicle, if required.

Remove and discard the auxiliary radiator, (see TOPIx workshop manual section 303-03: Removal and Installation - Auxiliary Radiator).

2.

**NOTE:**

Repeat this step to the other side of the vehicle, if required.



Remove and discard the auxiliary radiator duct.

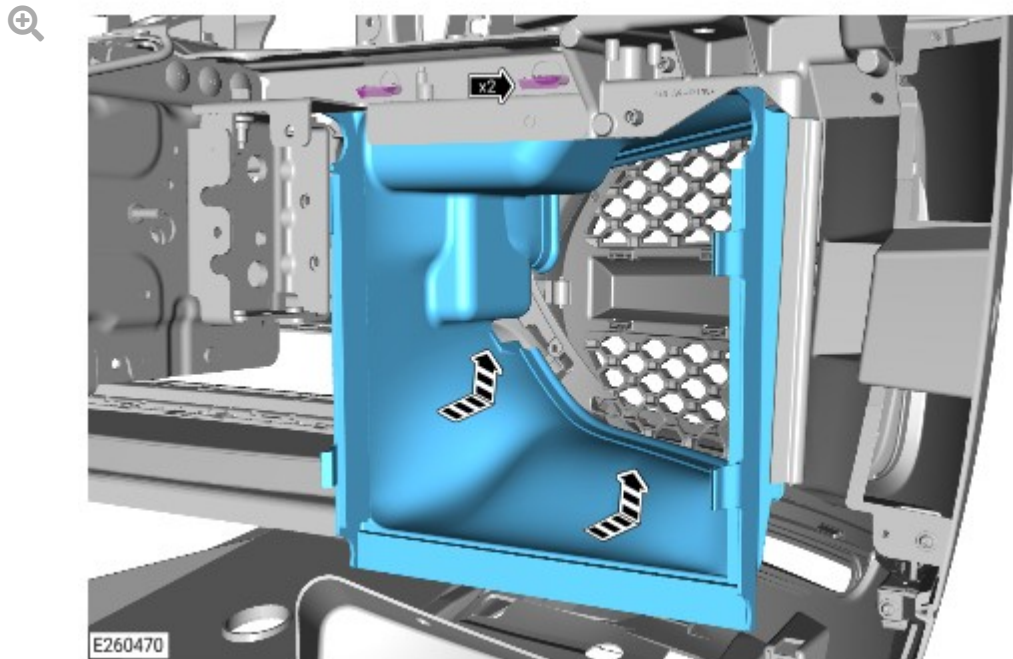
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3.

**NOTE:**

Repeat this step to the other side of the vehicle, if required.



Install the new auxiliary radiator duct.

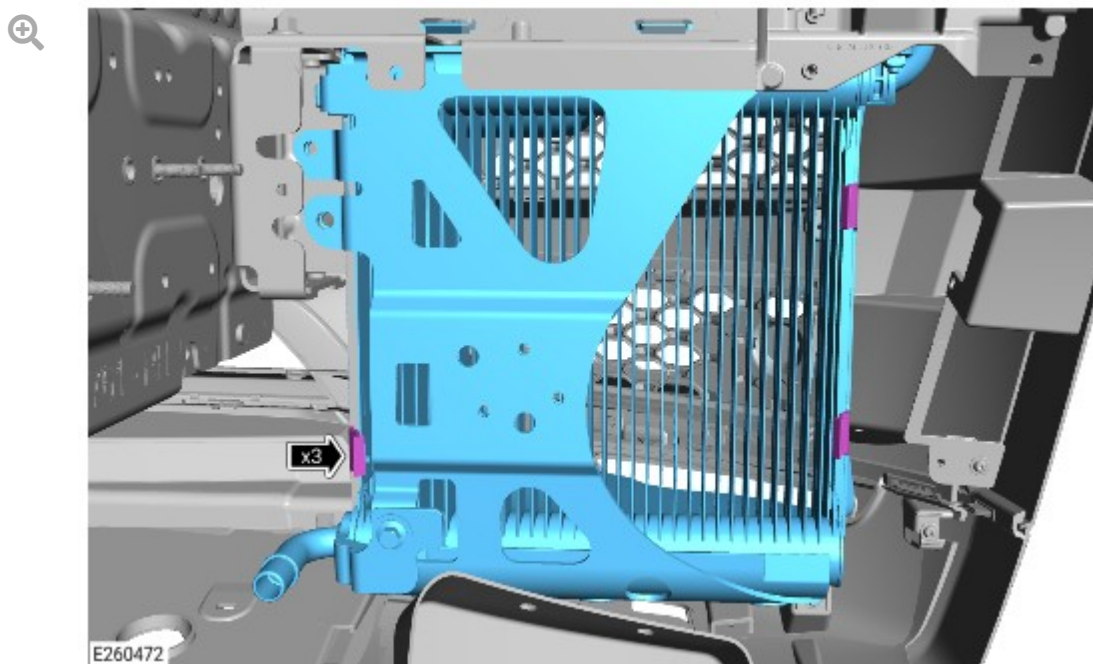
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4.

**NOTE:**

Repeat this step to the other side of the vehicle, if required.



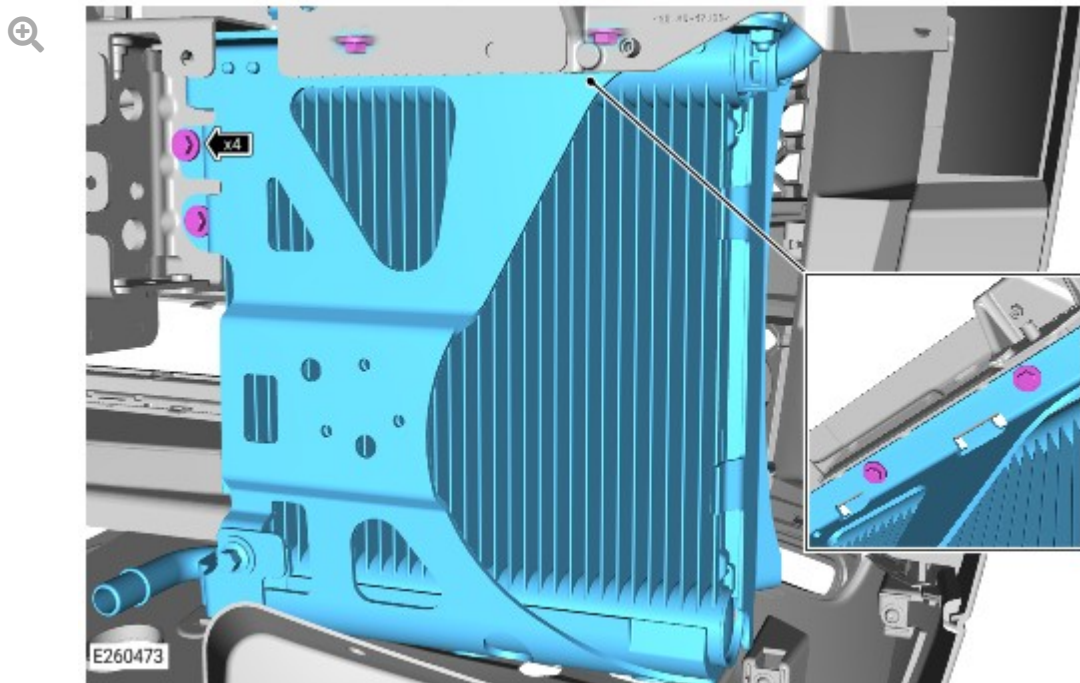
Install the new auxiliary radiator, making sure the 3 clips are correctly installed.

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5.

**NOTE:**

Repeat this step to the other side of the vehicle, if required.



Install the new auxiliary radiator fixings.

- Torque: **7 Nm**

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6. See TOPIx workshop manual section 303-03: Engine Cooling - Removal and Installation - Auxiliary Radiator. Complete all installation steps, as required.