

JTB00566NAS4

**TECHNICAL BULLETIN**

23 MAY 2018



© Jaguar Land Rover North America, LLC

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 Jaguar service facility to determine whether this bulletin applies to a specific vehicle.

**INFORMATION**

This reissue replaces all previous versions. Please destroy all previous versions.

Changes are highlighted in blue

**SECTION:**

303-03: Engine Cooling

**SUBJECT/CONCERN:**

Coolant Leak From The Engine Compartment

**AFFECTED VEHICLE RANGE:**

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:	APPLICABILITY:
F-TYPE (X152)	2014 Onwards	K00001 Onwards	Castle Bromwich	V6 S/C 3.0L Petrol /V8 S/C 5.0L Petrol

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:	APPLICABILITY:
XF (X250)	2012-2015	S52534-U88785	Castle Bromwich	V6 S/C 3.0L Petrol /V8 S/C 5.0L Petrol
XJ Range (X351)	2012 Onwards	V39060 Onwards	Castle Bromwich	V6 S/C 3.0L Petrol /V8 S/C 5.0L Petrol

## MARKETS:

NORTH AMERICA

## CONDITION SUMMARY:

## SITUATION:

An 'engine overheat' message may be displayed on the Instrument Cluster and that coolant may be leaking from engine compartment area.

## CAUSE:

This may be caused by weakness in the plastic weld process of the coolant pipes.

## ACTION:

Should a Customer express this concern, follow the Workshop Procedure below.

## PARTS:

PART NUMBER	DESCRIPTION	QUANTITY
AJ813917	Coolant outlet pipe - Upper	1
AJ813865	Coolant outlet pipe - Lower	1
C2Z17249	Gasket - Supercharger-to-cylinder head - V6 3.0L S/C Petrol	2
C2Z17248	Gasket - Intake manifold - V6 3.0L S/C Petrol	1
C2Z28265	Throttle body gasket	1
AJ811576	Gasket - Right bank - Supercharger-to-cylinder head - V8 5.0L S/C Petrol	1
AJ811590	Gasket - Left bank - Supercharger-to-cylinder head - V8 5.0L S/C Petrol	1

PART NUMBER	DESCRIPTION	QUANTITY
AJ811948	Gasket - Intake manifold - V8 5.0L S/C Petrol	1
JLM209722	Engine coolant	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
Coolant outlet pipe - Upper & lower - Renew - F-TYPE (X152; V6 3.0L S/C Petrol)	26.31.97	3.5	D4	C2Z28536
Coolant outlet pipe - Upper & lower - Renew - F-TYPE (X152; V8 5.0L S/C Petrol)	26.31.97	3.6	D4	C2Z28536
Coolant outlet pipe - Upper & lower - Renew - XF (X250; V6 3.0L S/C Petrol)	26.31.97	4.2	D4	C2Z28536
Coolant outlet pipe - Upper & lower - Renew - XF (X250; V8 5.0L S/C Petrol)	26.31.97	4.3	D4	C2Z28536
Coolant outlet pipe - Upper & lower - Renew - XJ (X351; V6 3.0L S/C Petrol / V8 5.0L S/C Petrol)	26.31.97	4.2	D4	C2Z28536

**NOTE:**

Normal Warranty procedures apply.

**WORKSHOP PROCEDURE:****ⓘ CAUTIONS:**

- When refilling the cooling system, make sure to use the Jaguar Land Rover approved specification of engine coolant at a 50% mix ratio with water and check the specific gravity of the engine coolant (see TOPIx Workshop Manual section 303-03: Engine Cooling - Specification - V8 S/C 5.0L Petrol).
- Use only Jaguar Land Rover-approved engine coolant.

**⚠ NOTE:**

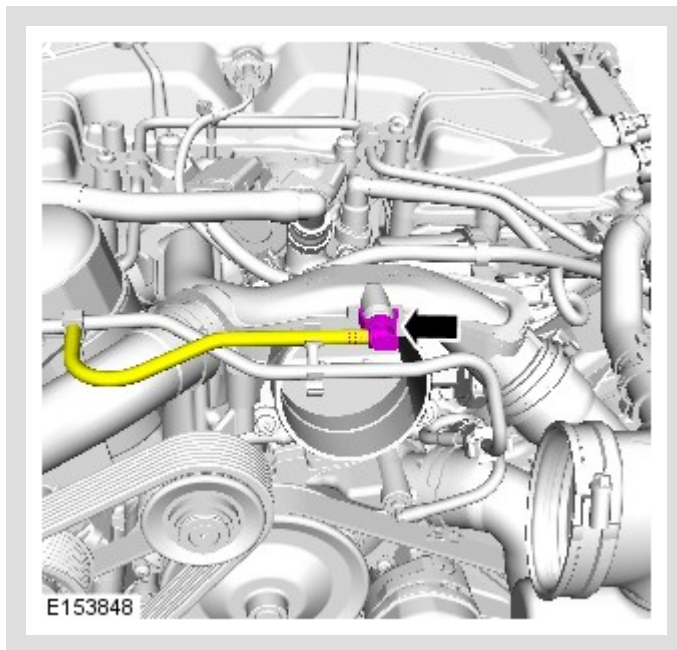
V8 5.0L S/C Petrol shown, V6 3.0L S/C Petrol similar.

**1** Remove the charge air cooler (see TOPIx Workshop Manual section 303-12: Intake Air Distribution and Filtering - Charge Air Cooler).

**2** Remove the air cleaner outlet pipe T-connector (see TOPIx Workshop Manual section 303-12: Intake Air Distribution and Filtering - Air Cleaner Outlet Pipe T-Connector).

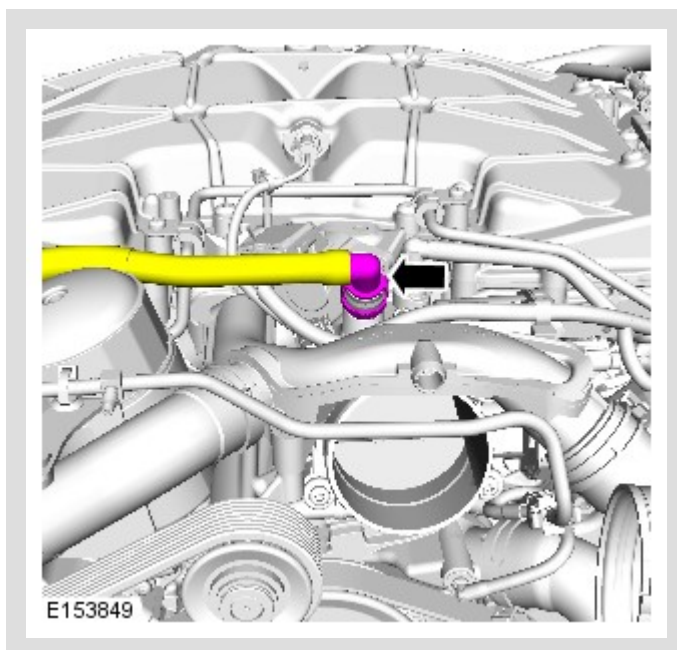
**3 ⓘ CAUTION:**

Be prepared to collect escaping engine coolant.



Disconnect and reposition the hose.

4

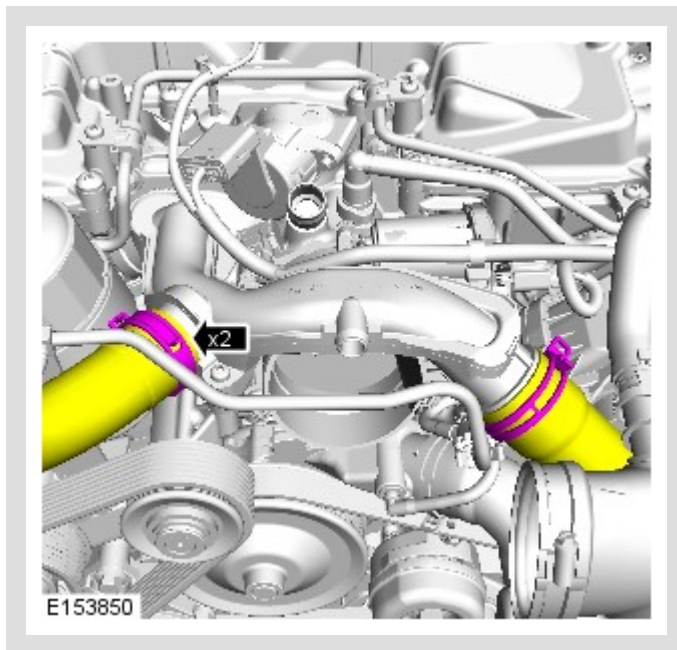


Disconnect and reposition the hose.

5

**ⓘ CAUTION:**

Be prepared to collect escaping engine coolant.



Disconnect and reposition the hoses.

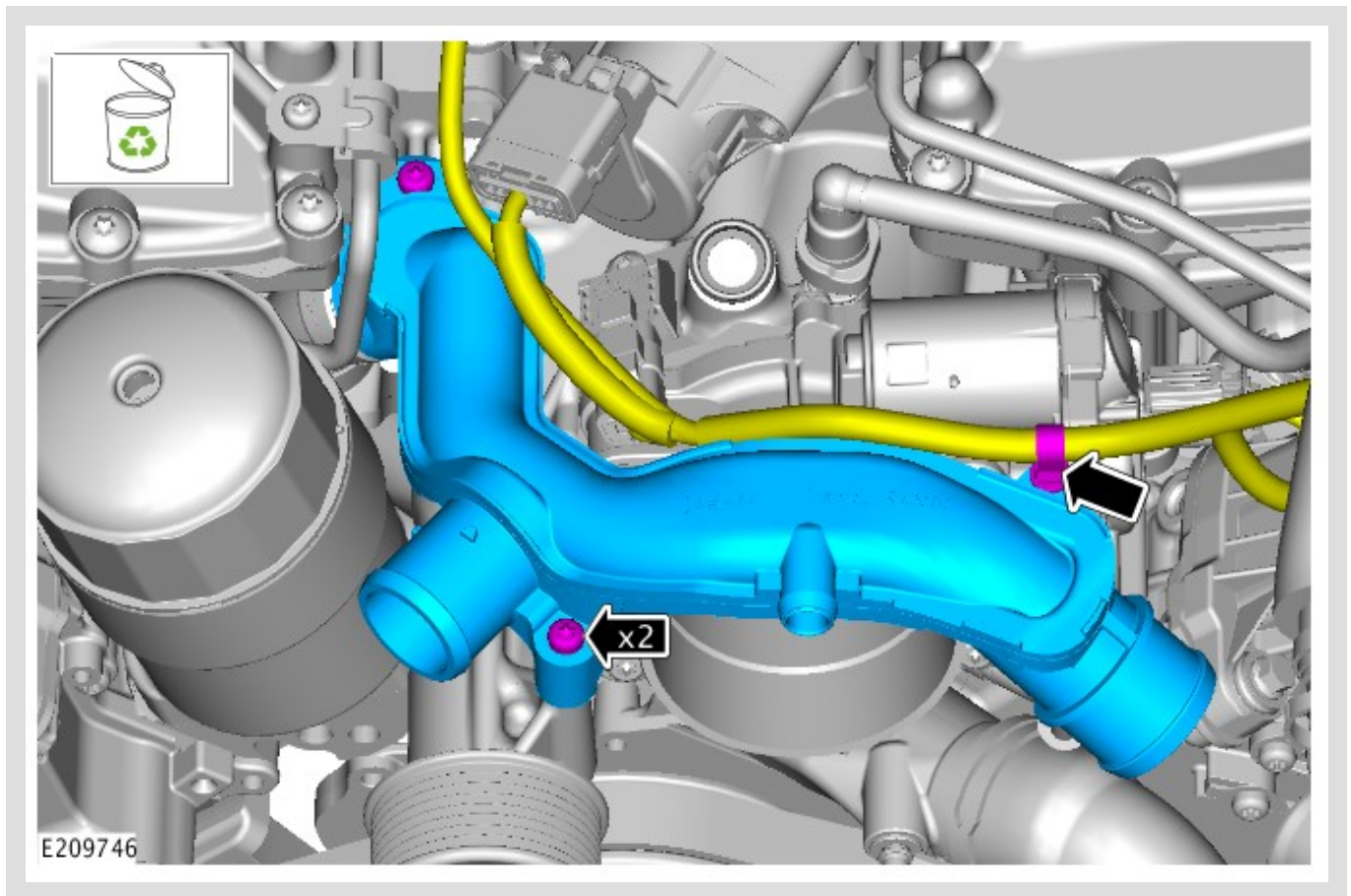
6

**ⓘ CAUTION:**

Be prepared to collect escaping engine coolant.

**△ NOTE:**

Retain the fasteners.



Remove and discard the upper coolant outlet pipe.

- 7 Remove supercharger (see TOPIx Workshop Manual section 303-12: Intake Air Distribution and Filtering - Removal and Installation - Supercharger [Steps 1-11]).

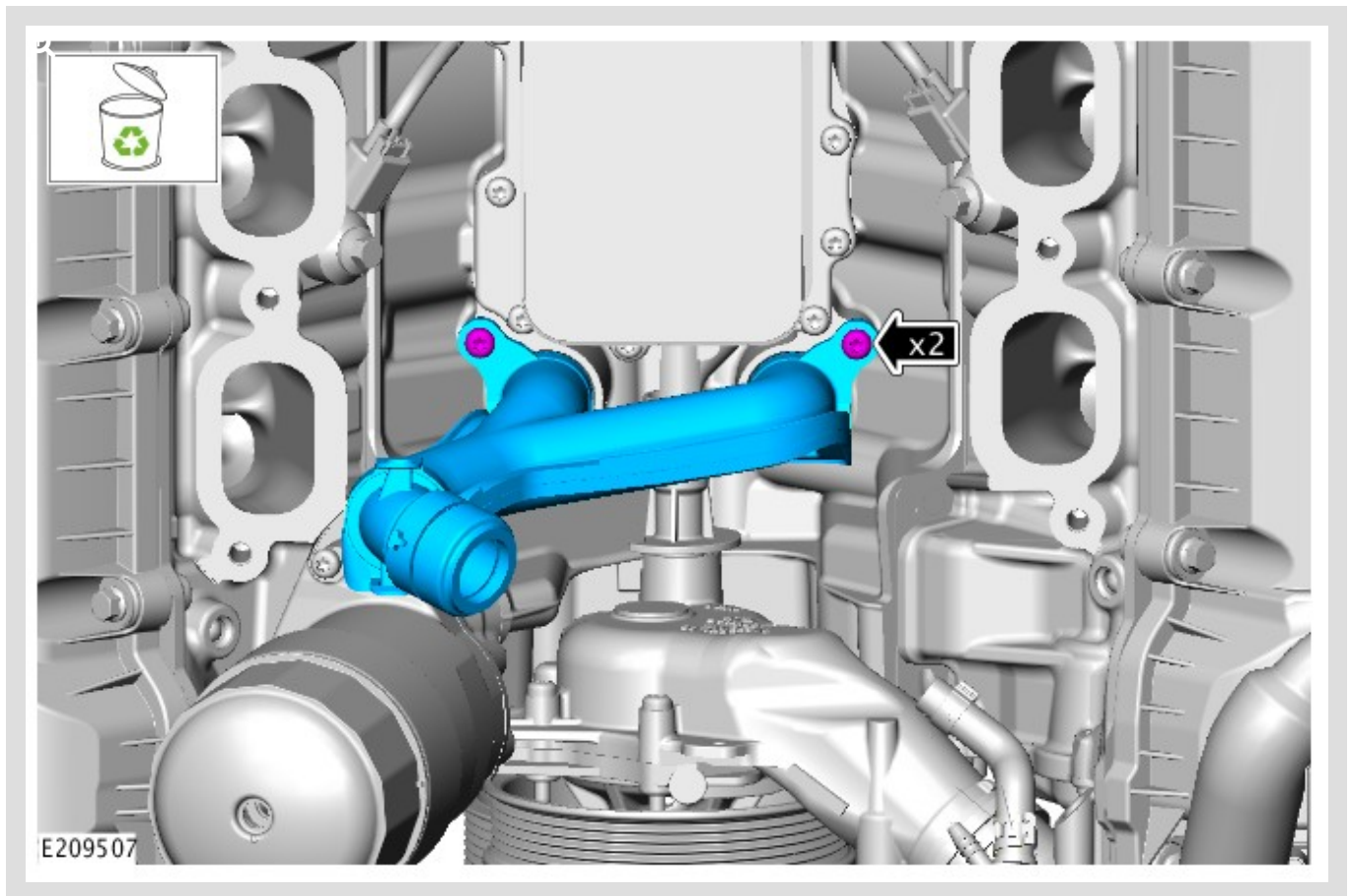
8

**CAUTIONS:**

- Be prepared to collect escaping engine coolant.
- Make sure no part of the lower coolant return pipe remains in both cylinder block recesses as these plastic pipes can sometimes break up on removal.

**NOTE:**

Retain the fasteners.



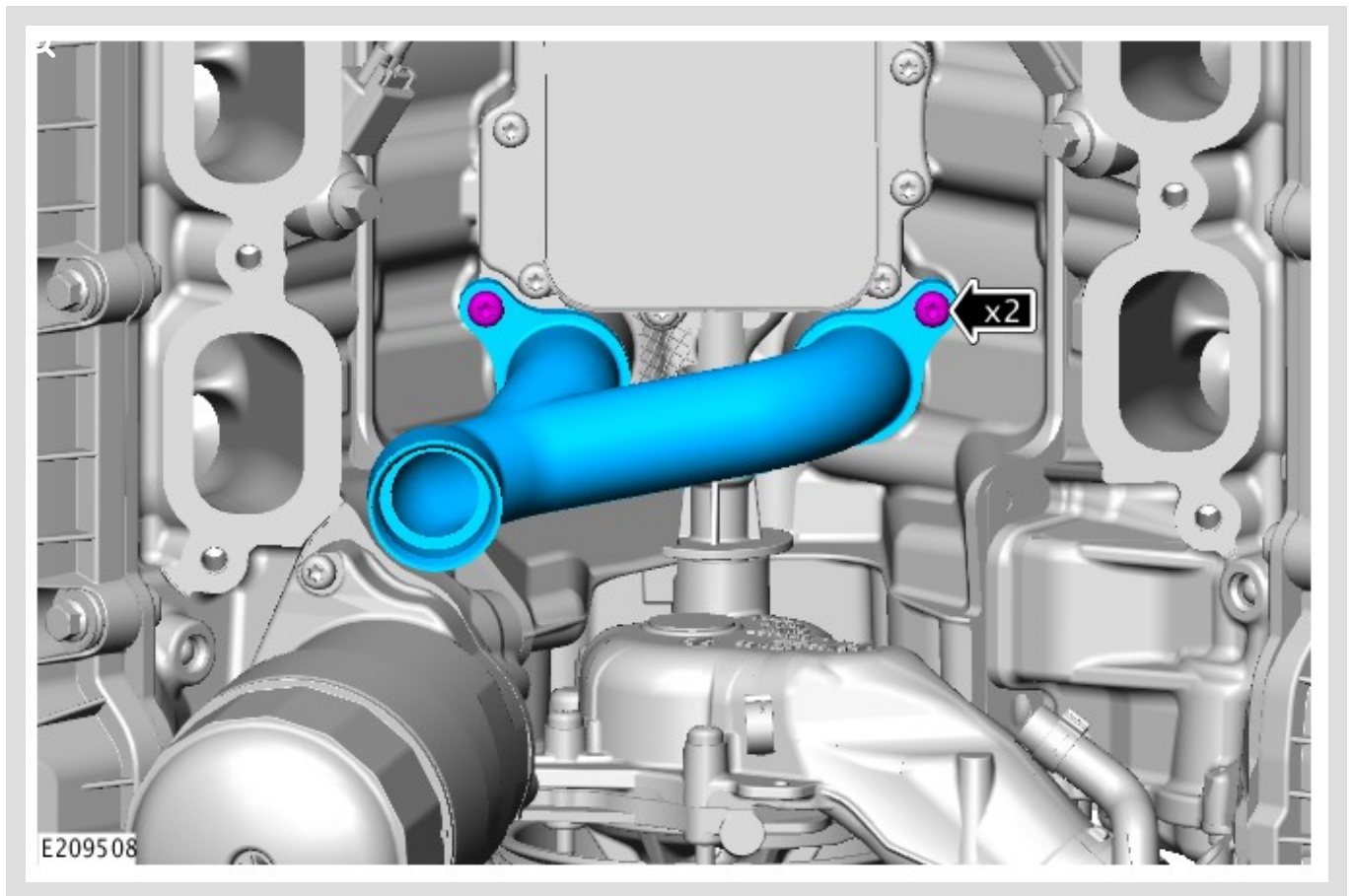
Remove and discard the lower coolant outlet pipe.

9

**⚠ CAUTION:**

Make sure the O-rings are correctly installed when installing the new coolant pipe into the cylinder block.





Install the new lower coolant outlet pipe.

- Torque: **12 Nm.**

10 Install supercharger (see TOPlx Workshop Manual section 303-12: Intake Air Distribution and Filtering - Removal and Installation - Supercharger [Steps 5-18]).

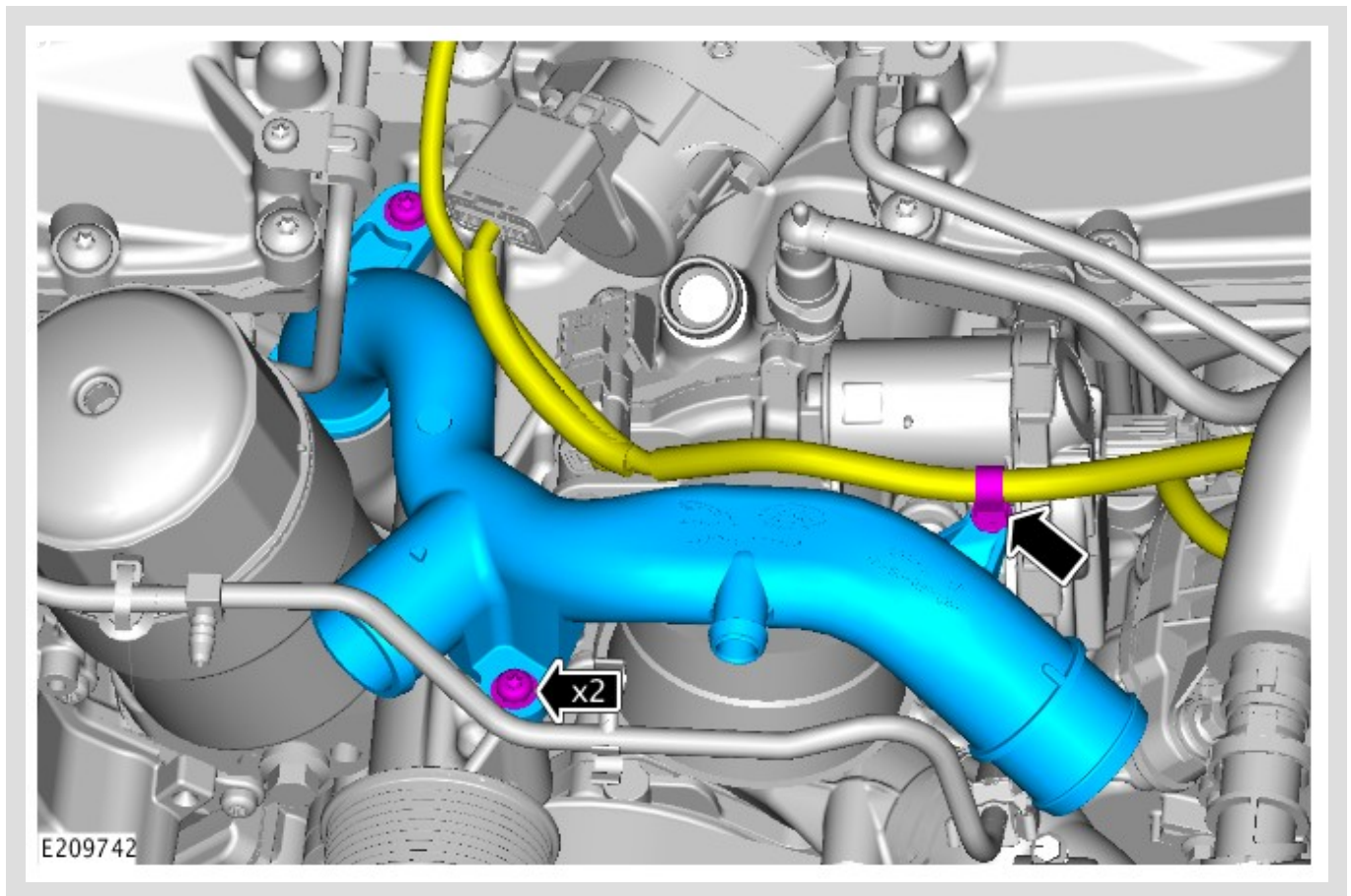
11

**ⓘ CAUTION:**

Make sure the O-rings are correctly installed when installing the new coolant pipe.

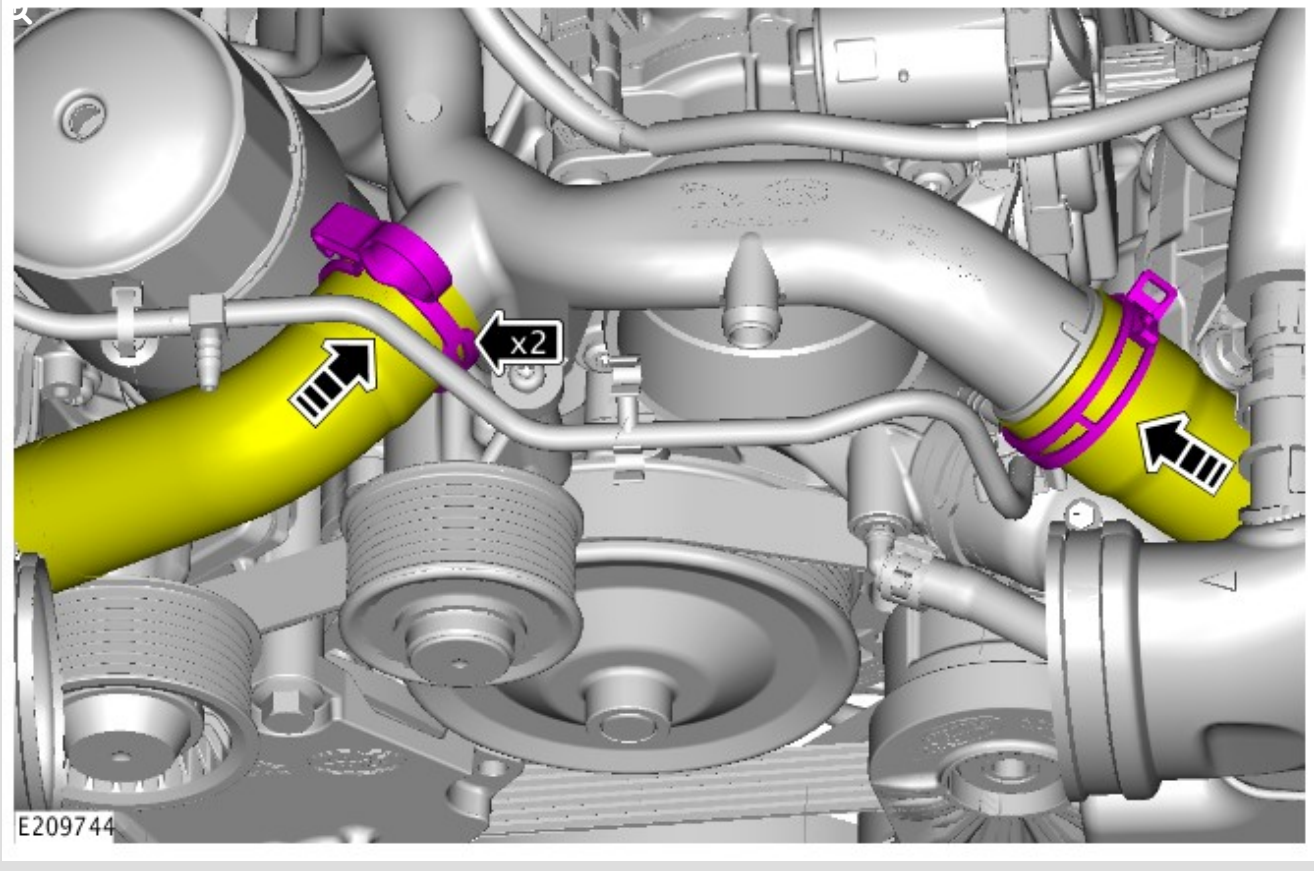
**△ NOTE:**

The new coolant pipe has no intermediate pipe between the upper and lower sections.



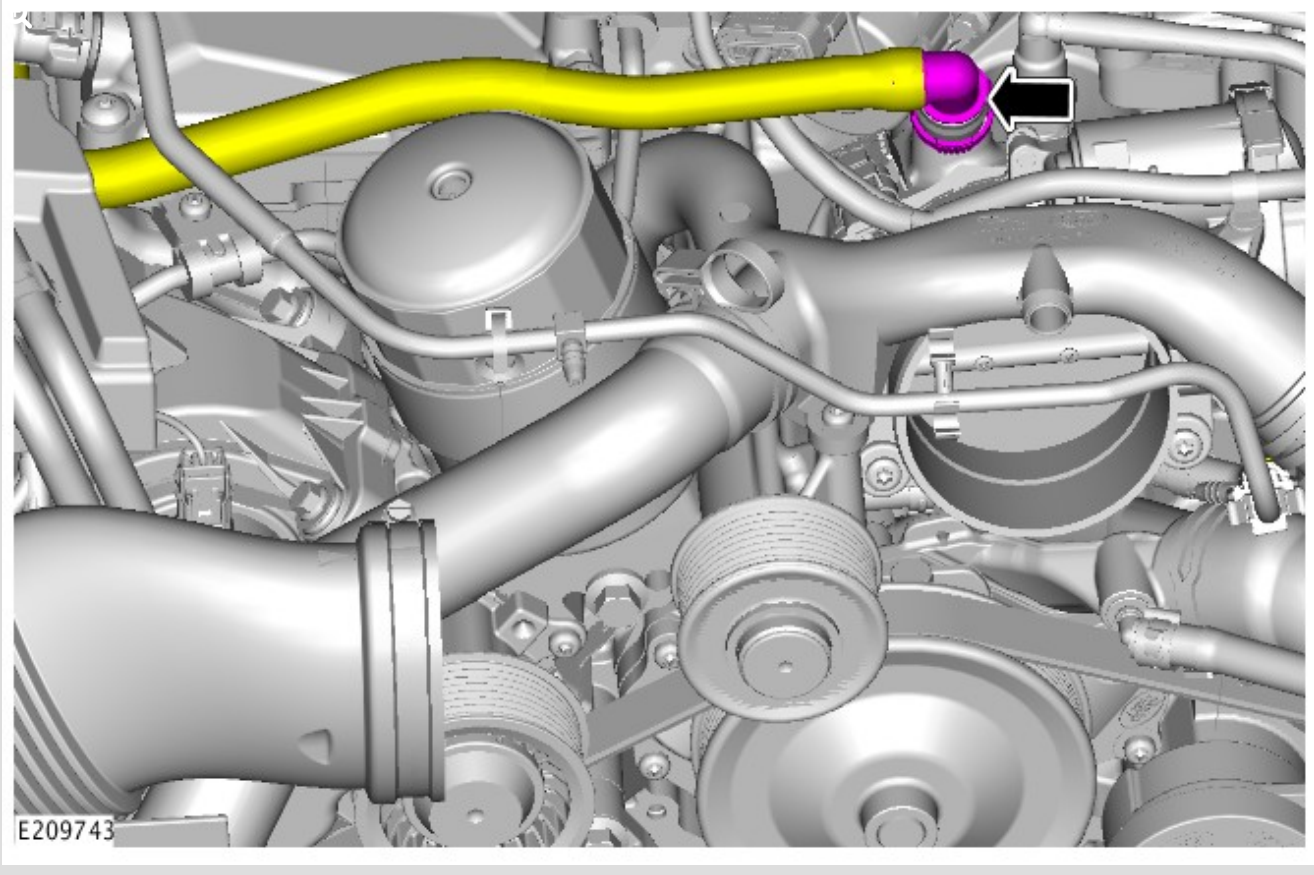
Install the new upper coolant outlet pipe.

- Clip the wiring harness to the pipe.
- Torque: **10 Nm**.



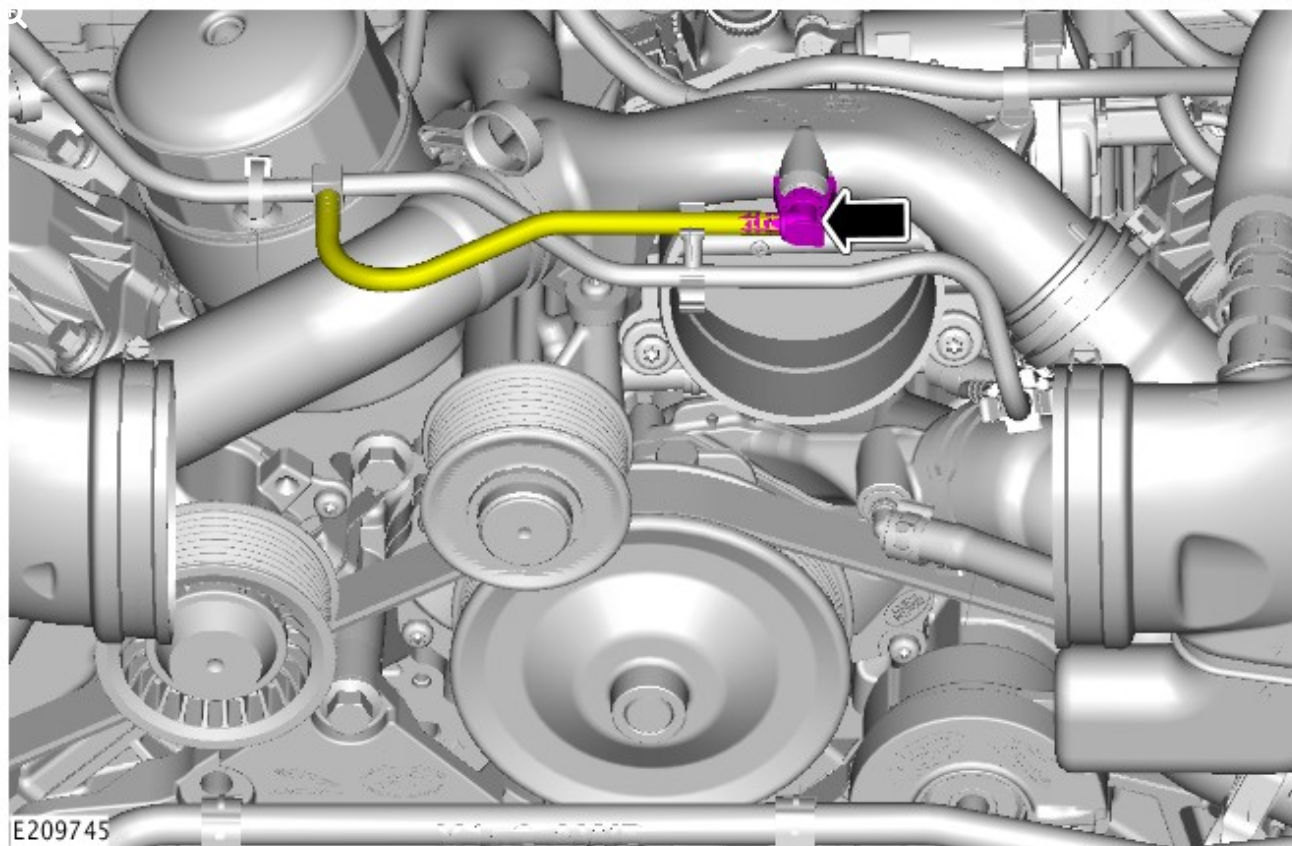
Install the 2 coolant hoses.

13



Install the hose.

14



Install the hose

- 
- 15 Install the air cleaner outlet pipe T-connector (see TOPIx Workshop Manual section 303-12: Intake Air Distribution and Filtering - Air Cleaner Outlet Pipe T-Connector).
- 
- 16 Install the charge air cooler (see TOPIx Workshop Manual section 303-12: Intake Air Distribution And Filtering - Charge Air Cooler).