

PUBLISHED: 22-NOV-2019
2020.0 DEFENDER (LE), 303-03C

ENGINE COOLING – INGENIUM I6 3.0L PETROL

AUXILIARY RADIATOR (G2453431)

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REMOVAL

 NOTE:

- This procedure contains illustrations showing certain components removed to provide extra clarity.
- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.
- This procedure contains illustrations for right side components, left side components are similar.

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

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

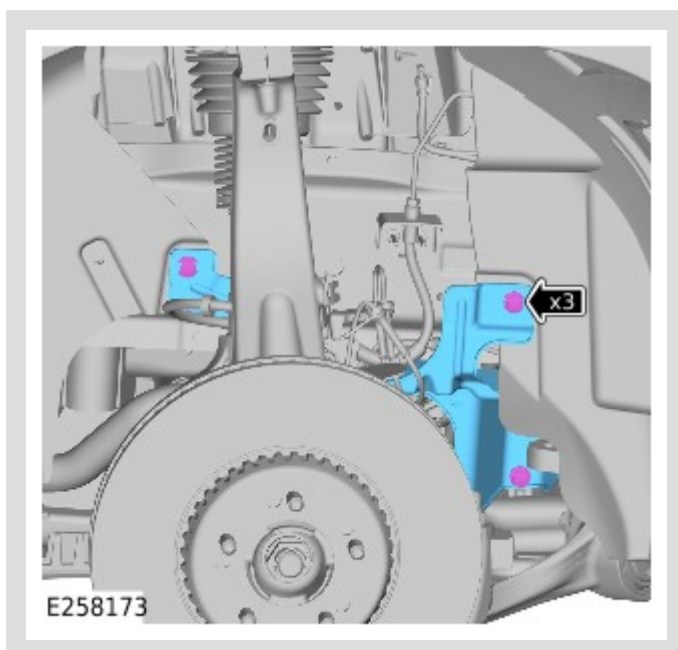
2. Partially drain the engine cooling system.

Refer to: [Cooling System Partial Draining and Vacuum Filling](#) (303-03C Engine Cooling - INGENIUM I6 3.0 L Petrol, General Procedures).

3.

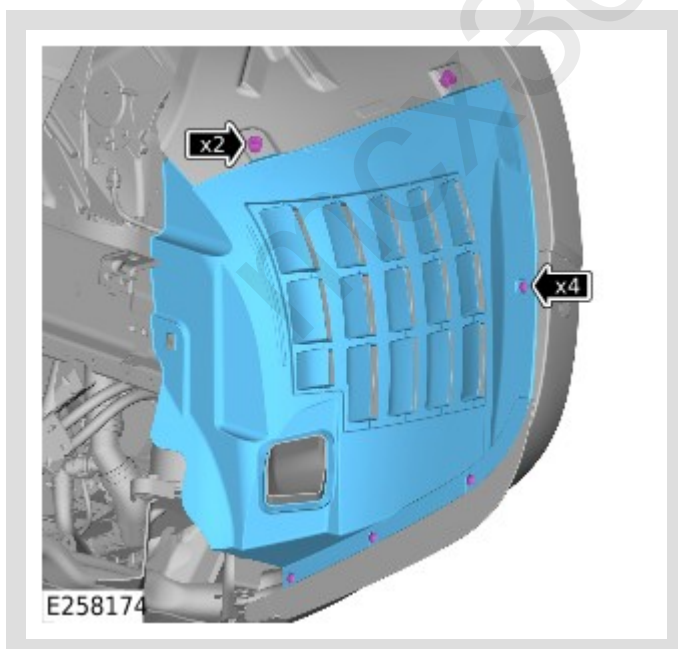
 NOTE:

Wheel shown removed for clarity.



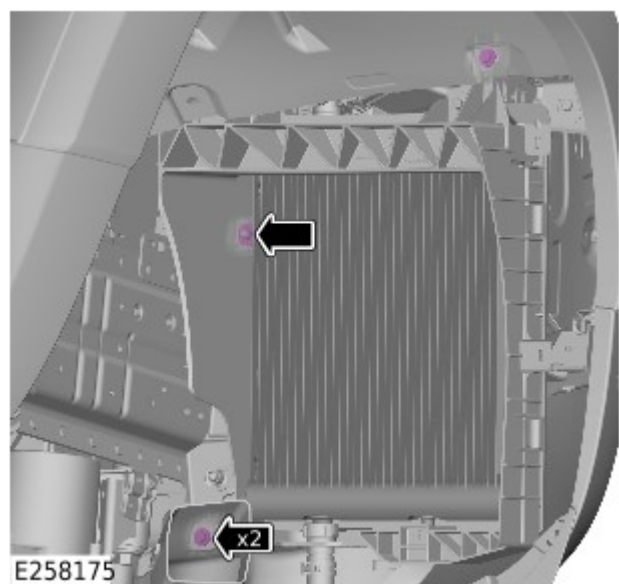
- Remove the 3 clips.
- Remove the front wheel arch inner moulding.

4.



- Remove the 2 clips.
- Remove the 4 screws.
- Remove the wheel arch liner front section.

5.

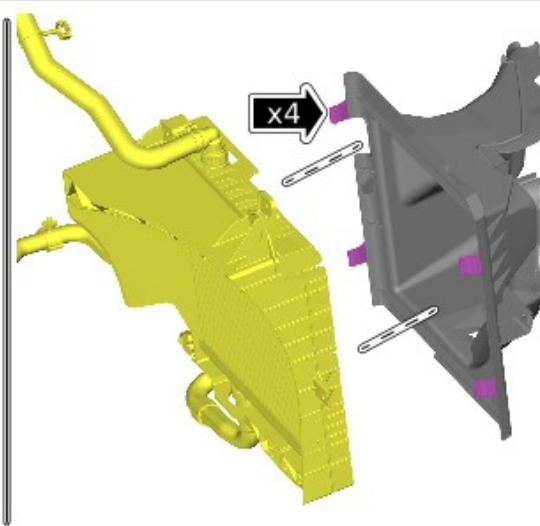
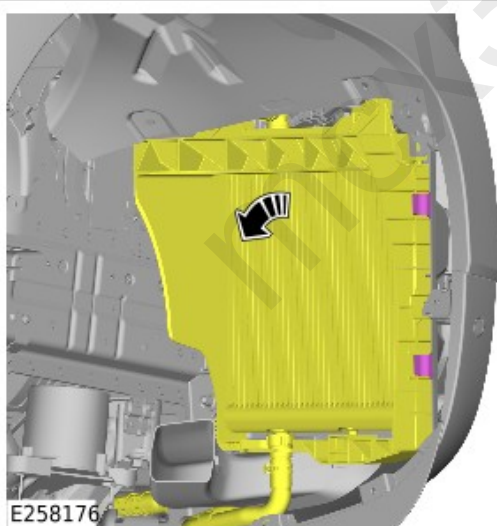


- Remove the 2 bolts.
- Remove the nut.

6.

⚠ CAUTION:

Make sure the auxiliary radiator is supported at all times.



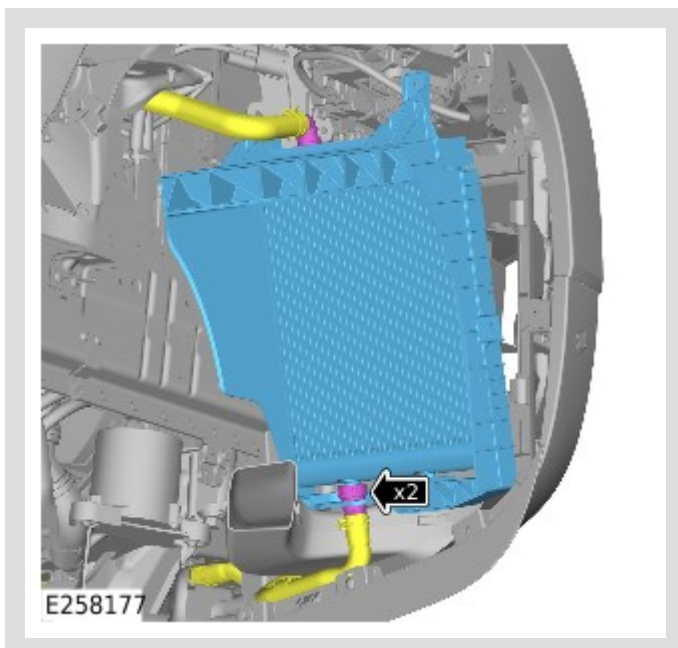
Release the auxiliary radiator from the 4 clips.

7.



WARNING:

Be prepared to collect escaping engine coolant.



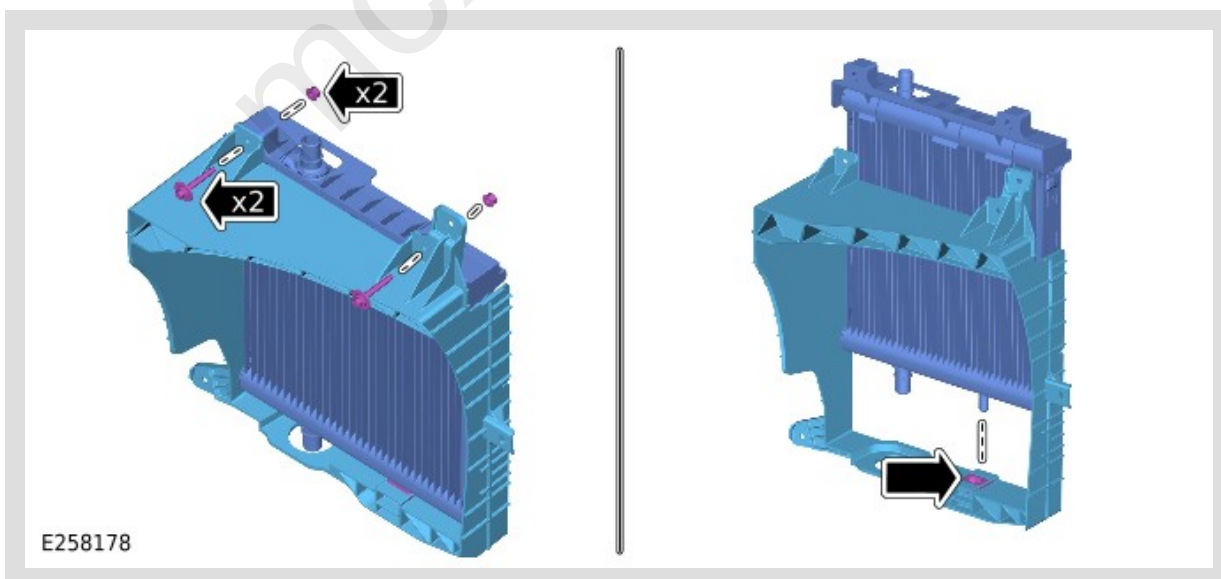
- Disconnect the 2 engine coolant hoses from the auxiliary radiator.
- Remove the auxiliary radiator.

8.



NOTE:

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



- Remove the 2 nuts and bolts.
- Remove the auxiliary radiator housing.



Remove the bracket from the auxiliary radiator.

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INSTALLATION

1.



NOTE:

Only complete the following step(s) if the component was previously removed.

Install the bracket to the auxiliary radiator.

2.

- Install the auxiliary radiator housing.
- Install and tighten the 2 nuts and bolts.

Torque: 9Nm

3.

- Install the auxiliary radiator.
- Connect the 2 engine coolant hoses.

4.

Install the auxiliary radiator to the 4 clips.

5.

- Install and tighten the nut.
- Install and tighten the 2 bolts.

Torque: 9Nm

Torque: 9Nm

6.

- Install the wheel arch liner front section.
- Install the 4 screws.
- Install the 2 clips.

Torque: 5Nm

7.

- Install the front wheel arch inner moulding.
- Install the 3 clips.

8.

Vacuum fill the coolant system.

Refer to: [Cooling System Partial Draining and Vacuum Filling](#) (303-03C Engine Cooling - INGENIUM I6 3.0 L Petrol, General Procedures).