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2020.0 DEFENDER (LE), 309-00C

EXHAUST SYSTEM - INGENIUM I6 3.0L PETROL (G2344651)

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REMOVAL AND INSTALLATION

SPECIAL TOOL(S)



E240978

JLR-309-004

Remover/Installer Heated Oxygen Sensor

PART(S)

STEP	PART NAME	QUANTITY
Installation Step 3	Catalytic converter to gasoline particulate filter (GPF) gasket	1
Installation Step 7	Catalytic converter to Gasoline Particulate Filter (GPF) nuts	1

REMOVAL

WARNING:

Observe due care when working near a hot exhaust system.

CAUTION:

Make sure the exhaust system is supported at all times.

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.

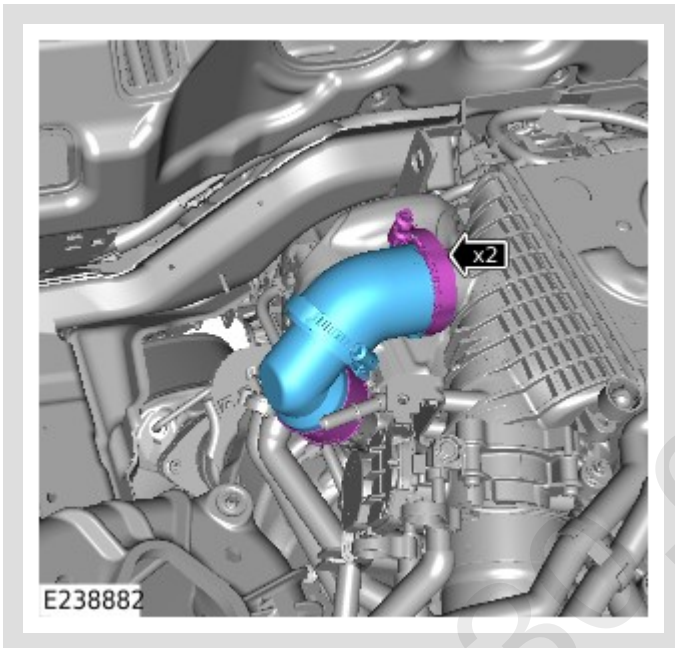
1. Remove the engine cover.

Refer to: [Engine Cover - INGENIUM I6 3.0L Petrol](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

2. Remove the secondary bulkhead center panel.

Refer to: [Secondary Bulkhead Center Panel - INGENIUM I6 3.0L Petrol](#) (501-02 Front End Body Panels, Removal and Installation).

- 3.



- Release the 2 clips.
- Remove the hose.

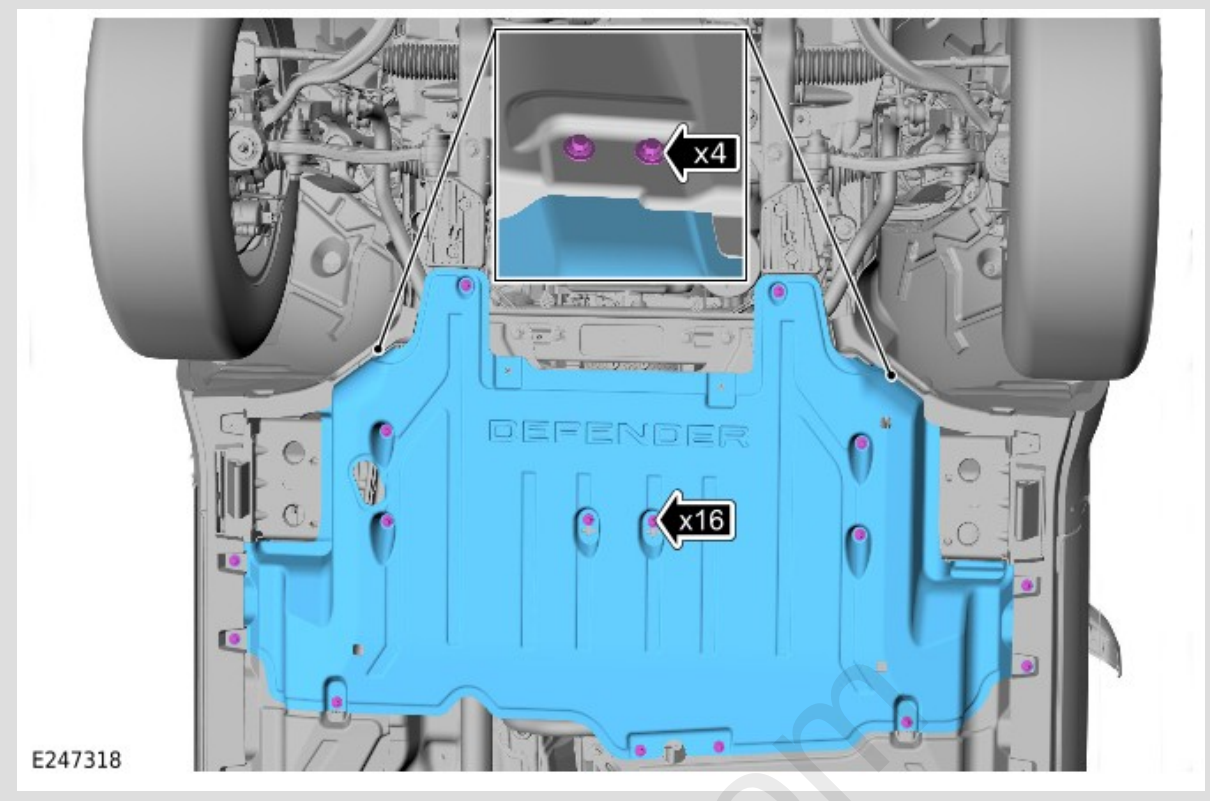
4. Raise and support the vehicle on a suitable 2 post lift.

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

5. Remove the engine undershield.

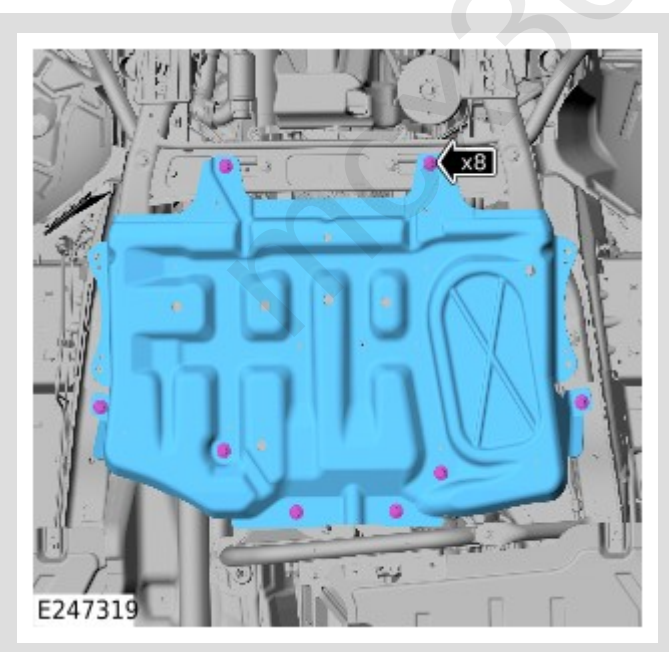
Refer to: [Engine Undershield](#) (501-02 Front End Body Panels, Removal and Installation).

6.



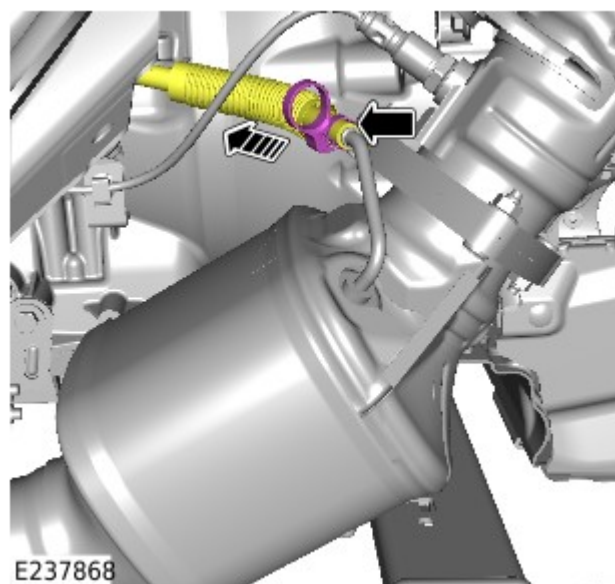
- Remove the 20 bolts.
- Remove the transmission undershield cover.

7.



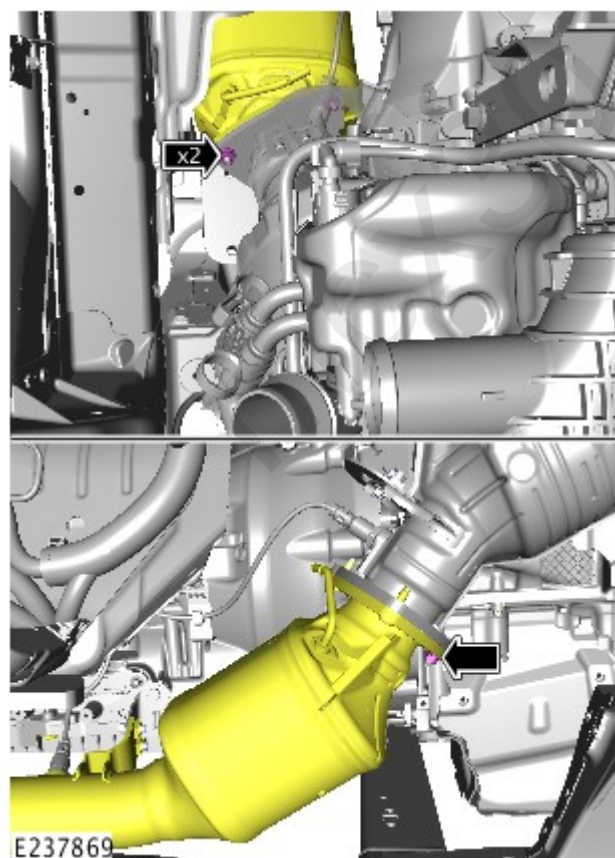
- Remove the 8 bolts.
- Remove the transmission undershield.

8.



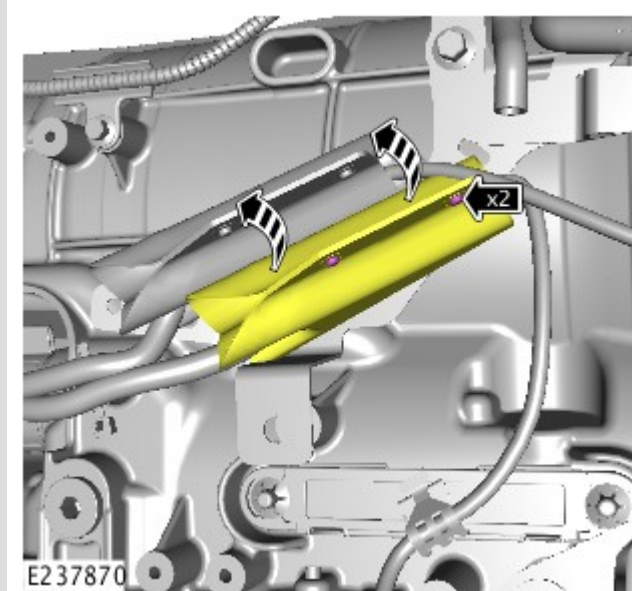
- Release the clip.
- Remove and reposition the hose.

9.



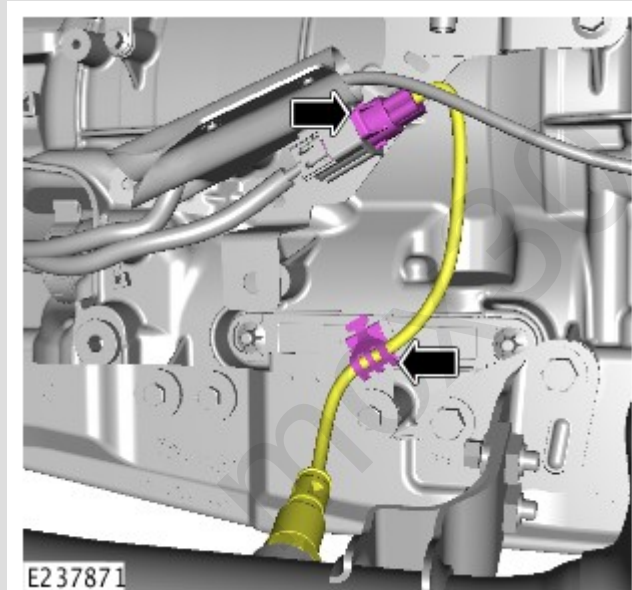
Remove and discard the 3 nuts.

10.

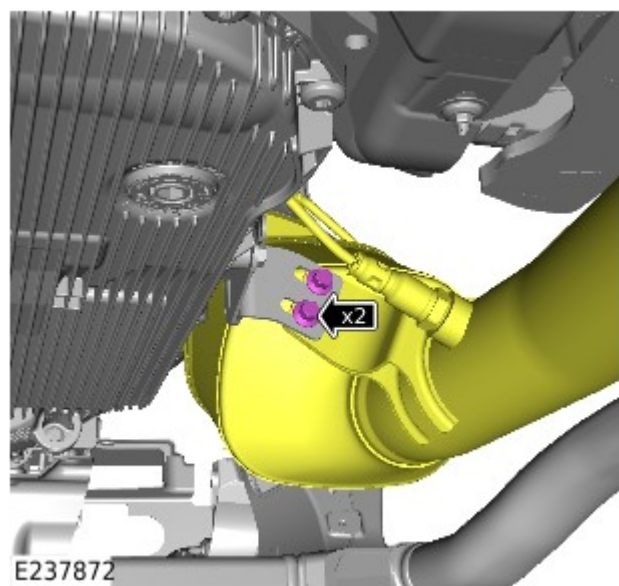


Release and reposition the noise, vibration and harshness material as illustrated.

11.



- Disconnect the electrical connector.
- Release the wiring harness from the clip.

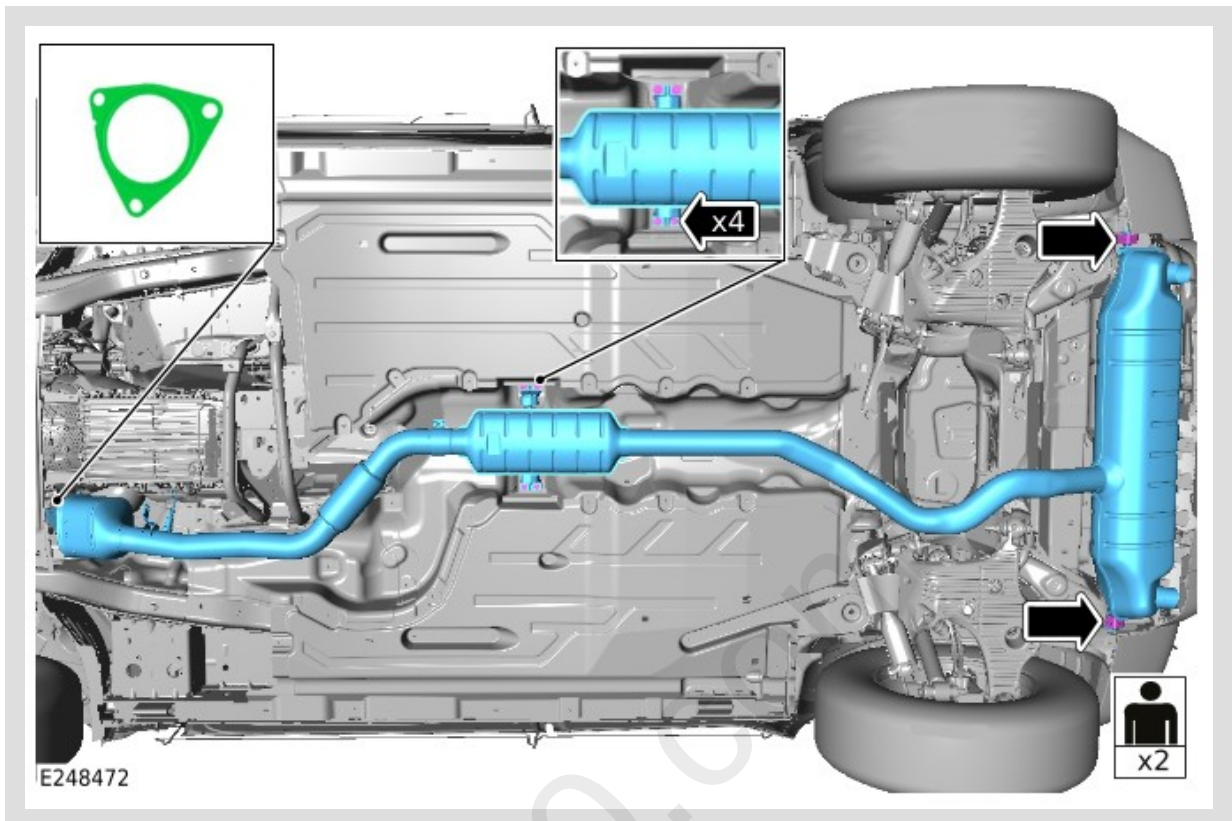


Remove the 2 bolts.

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**WARNING:**

This step requires the aid of another technician.

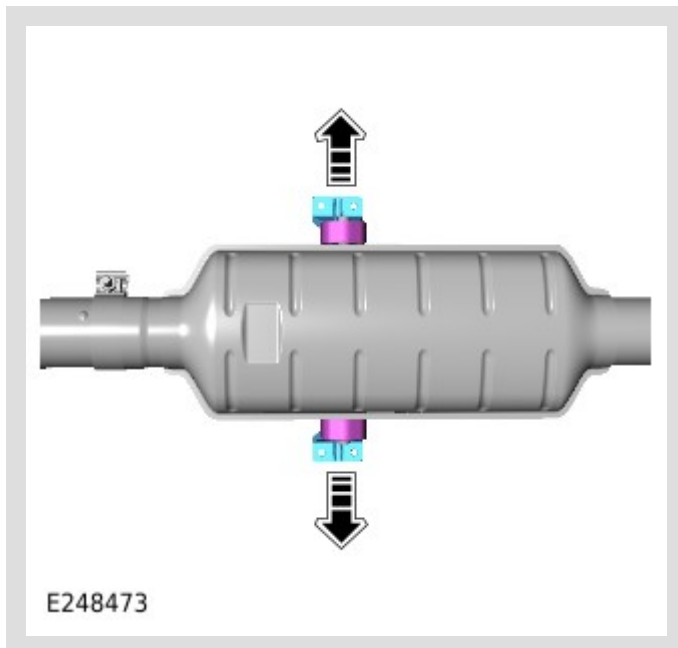


- Remove the 4 exhaust hanger mounting bracket bolts.
- Release the rear silencer from the 2 exhaust hanger bracket mounting rubbers.
- With the aid of another technician, remove the exhaust system.
- Remove and discard the exhaust system to catalytic converter gasket.

14.

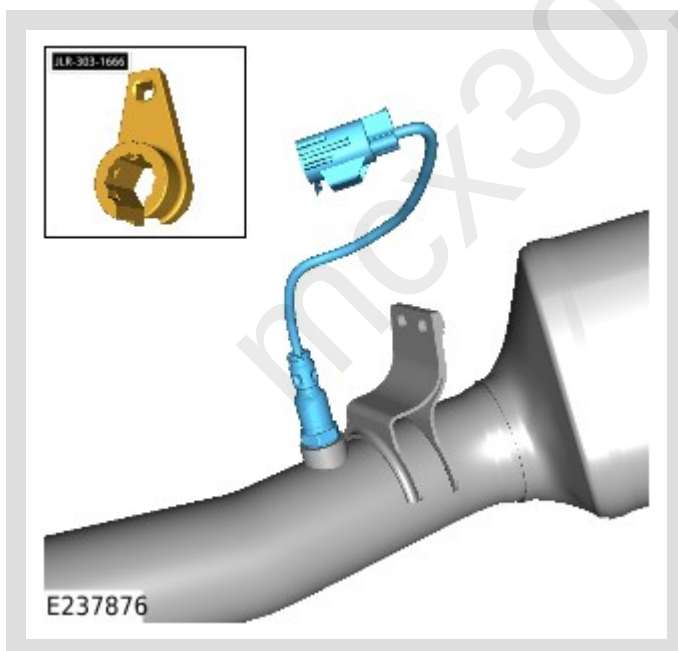
NOTE:

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



Remove the 2 exhaust hanger mounting brackets from the exhaust system.

15.



Use the special tool to remove the post catalyst heated oxygen sensor.

Special Tool(s): [JLR-309-004](#)

INSTALLATION

1.

CAUTION:

- If accidentally dropped or knocked install a new sensor.
- Make sure that the mating faces are clean and free of foreign material.

NOTE:

Steps 1-2 are only required if previously removed.

Use the special tool to install and tighten the post catalyst heated oxygen sensor.

Special Tool(s): [JLR-309-004](#)

Torque: **48Nm**

2.

Install the 2 exhaust hanger mounting brackets to the exhaust system.

3.

WARNING:

This step requires the aid of another technician.

- Install the new gasket.
Renew Part: [Catalytic converter to gasoline particulate filter \(GPF\) gasket](#) Quantity: 1.
- With the aid of another technician, install the exhaust system.
- Install and tighten the 4 exhaust hanger mounting bracket bolts.
Torque: **27.5Nm**
- Install the rear silencer into the 2 exhaust hanger bracket mounting rubbers.

4.

Install and tighten the 2 gasoline particulate filter bracket bolts.

Torque: **25Nm**

5.

- Connect the electrical connector.
- Install the wiring harness into the clip.

6.

Install the noise, vibration and harshness material into the correct location.

7.

Install and tighten the 3 nuts.

Renew Part: [Catalytic converter to Gasoline Particulate Filter \(GPF\) nuts](#) Quantity: 1.

Torque: **25Nm**

8.

- Install the hose.
- Install the clip.

9.

- Install the transmission undershield.
- Install and tighten the 8 bolts.

Torque: 60Nm

10.

- Install the transmission undershield cover.
- Install and tighten the 20 bolts.

Torque: 10Nm

11.

Install the engine undershield.

Refer to: [Engine Undershield](#) (501-02 Front End Body Panels, Removal and Installation).

12.

- Install the hose.
- Install the 2 clips.

13.

Install the secondary bulkhead center panel.

Refer to: Secondary Bulkhead Center Panel - INGENIUM I6 3.0L Petrol (501-02 Front End Body Panels, Removal and Installation).

14.

Install the engine cover.

Refer to: [Engine Cover - INGENIUM I6 3.0L Petrol](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).