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2020.0 DEFENDER (LE), 309-00C

EXHAUST SYSTEM - INGENIUM I6 3.0L PETROL

CATALYTIC CONVERTER (G2344555)

mcx30.com

REMOVAL AND INSTALLATION

SPECIAL TOOL(S)



E240978

JLR-309-004

Remover/Installer Heated Oxygen Sensor

PART(S)

STEP	PART NAME	QUANTITY
Installation Step 2	Catalytic converter to turbocharger gasket	1
Installation Step 3	Catalytic converter to turbocharger clamp	1

REMOVAL



WARNING:

Observe due care when working near a hot exhaust system.



NOTE:

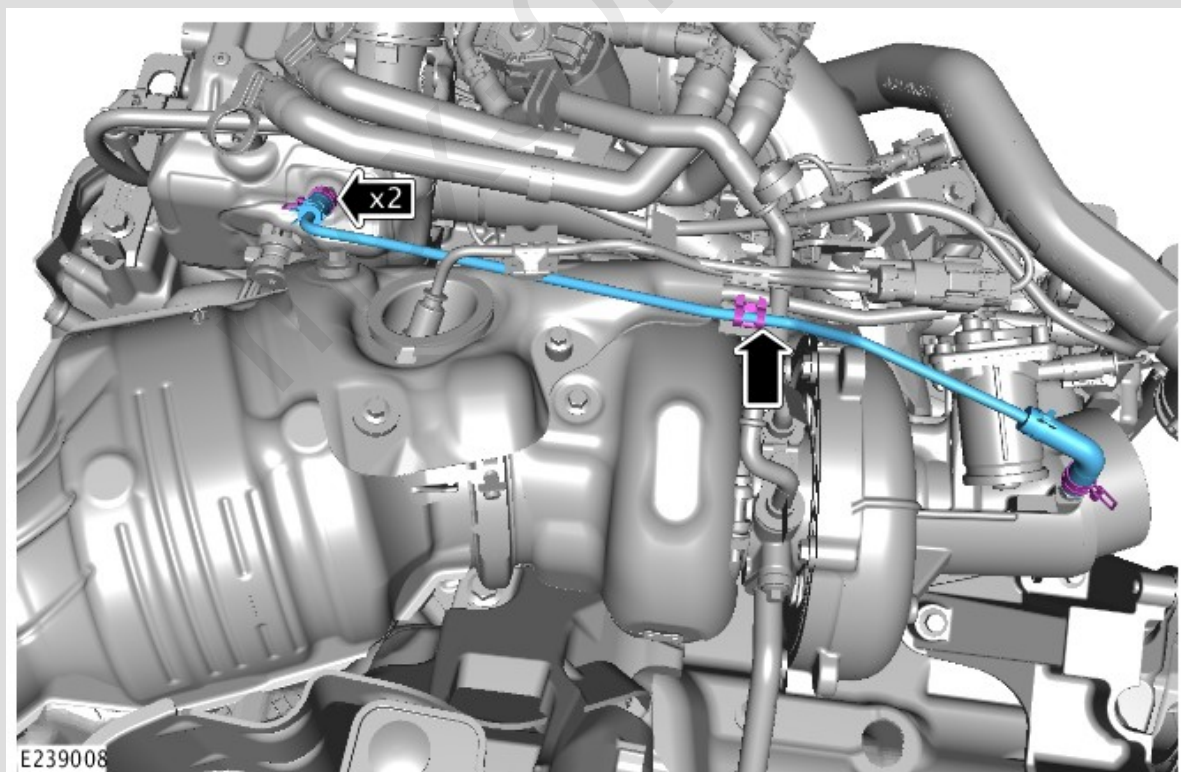
- This procedure contains illustrations showing certain components removed to provide extra clarity.
- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.

1. Disconnect the startup battery ground cable.

Refer to: [Startup Battery Disconnect and Connect](#) (414-00 Battery and Charging System - General Information, General Procedures).

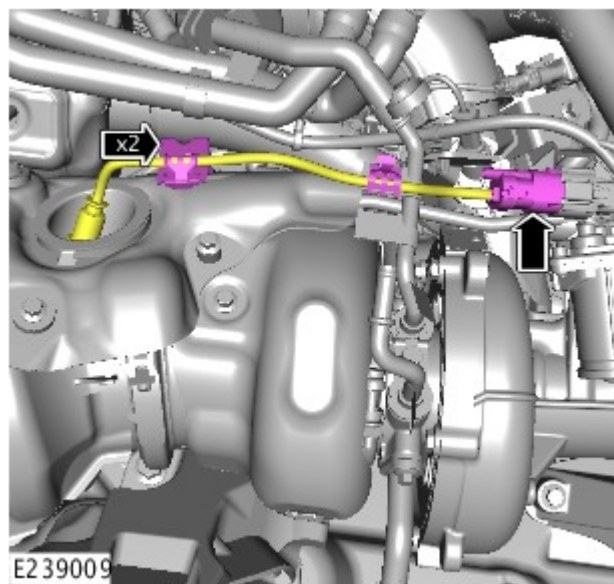
2. Raise and support the vehicle on a suitable 2 post lift.
Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).
3. Remove the right air filter housing.
Refer to: [Air Filter Housing](#) (303-12C Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol, Removal and Installation).
4. Remove the right air filter outlet pipe.
Refer to: [Air Filter Outlet Pipe](#) (303-12C Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol, Removal and Installation).
5. Remove the secondary bulkhead center panel.
Refer to: Secondary Bulkhead Center Panel (501-02, Removal and Installation).
6. Remove the exhaust system.
Refer to: [Exhaust System](#) (309-00C Exhaust System - INGENIUM I6 3.0L Petrol, Removal and Installation).
7. Remove the starter motor.
Refer to: [Starter Motor](#) (303-06C Starting System - INGENIUM I6 3.0L Petrol, Removal and Installation).

8.



- Release the 2 clips.
- Remove the pipe assembly.
- Release the clip.

9.

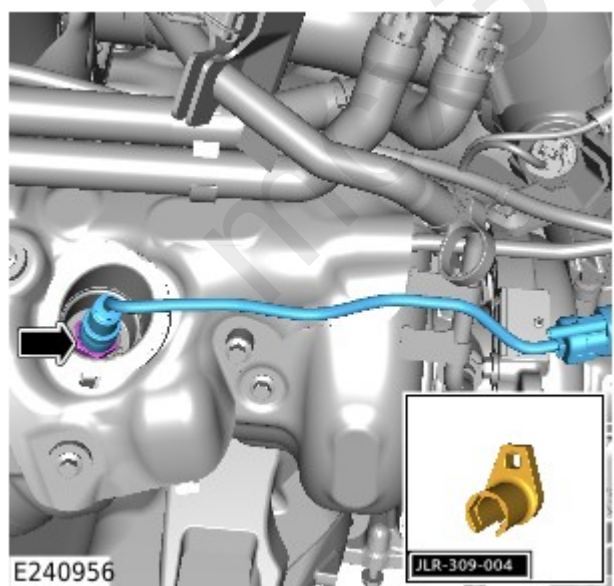


- Disconnect the electrical connector.
- Release the wiring harness from the 2 clips.

10.

⚠ CAUTION:

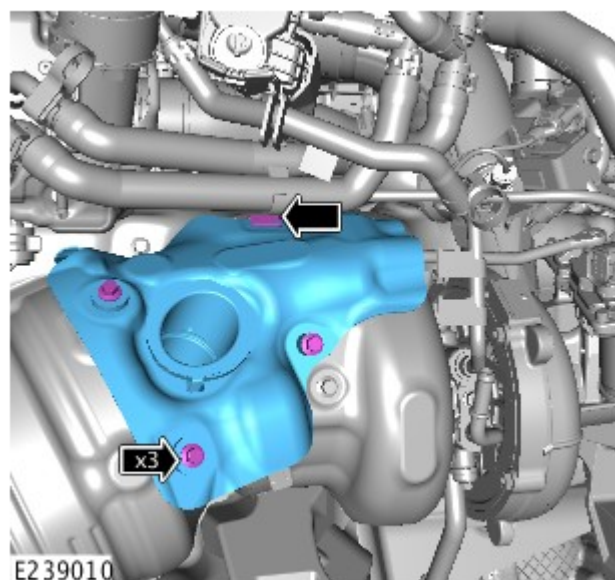
If accidentally dropped or knocked install a new sensor.



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

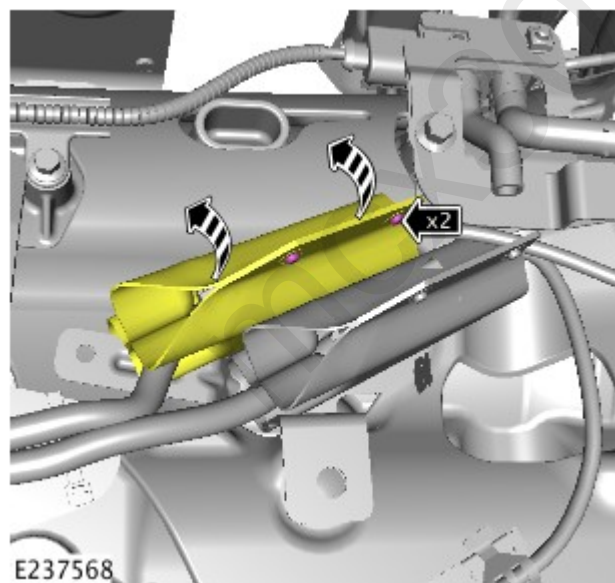
Special Tool(s): [JLR-309-004](#)

11.



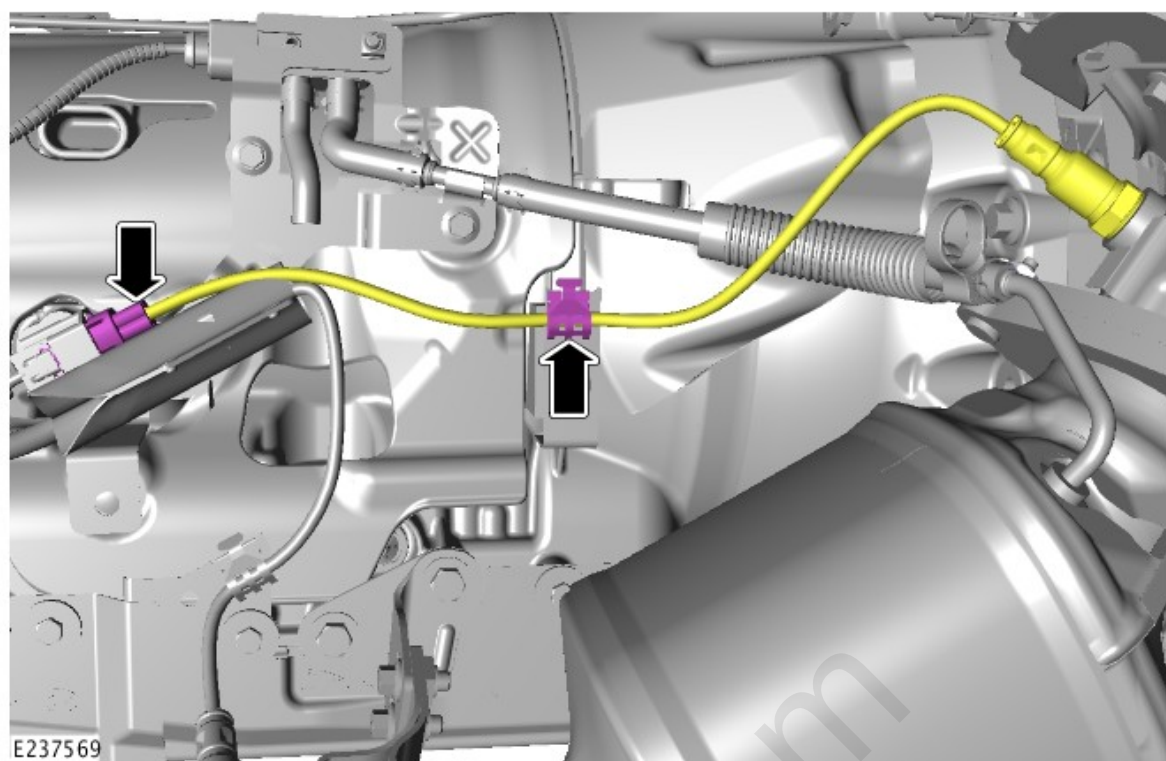
- Remove the 3 bolts.
- Release the heatshield from the bracket.
- Remove the heatshield.

12.



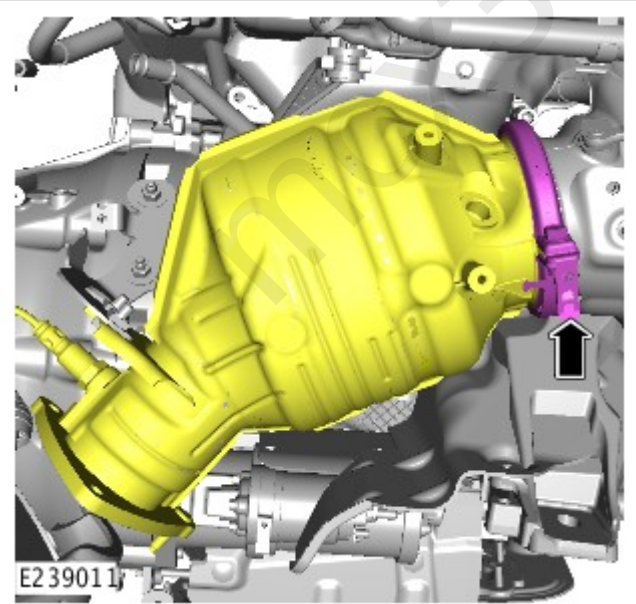
- Release the 2 fasteners.
- Release and reposition the noise, vibration and harshness material as illustrated.

13.

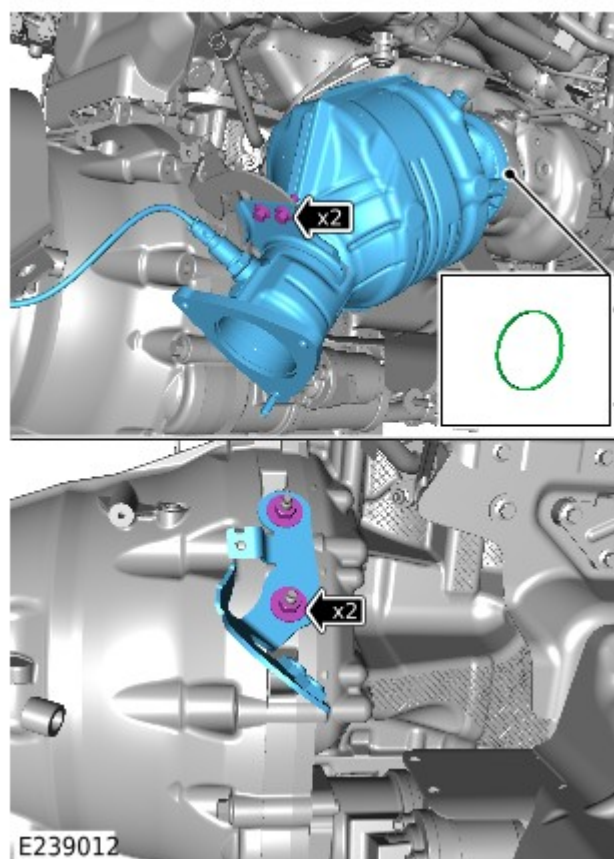


- Disconnect the electrical connector.
- Release the wiring harness from the clip.

14.



Remove and discard the clamp.



- Remove the 2 bolts and release the catalytic converter.
- Remove the 2 bolts and remove the bracket.
- Remove the catalytic converter.
- Remove and discard the gasket.

⚠ CAUTION:

If accidentally dropped or knocked install a new sensor.

△ NOTE:

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



- Use the special tool to remove the mid catalyst heated oxygen sensor.
Special Tool(s): [JLR-309-004](#)

INSTALLATION

1.

CAUTION:

If accidentally dropped or knocked install a new sensor.

NOTE:

This step is only required if previously removed.

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

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

Torque: **48Nm**

2.

- Install the gasket.

Renew Part: [Catalytic converter to turbocharger gasket](#) *Quantity:* **1**.

- Install the catalytic converter.

- Install the bracket.

- Install and tighten the 2 bolts.

Torque: **25Nm**

- Install the 2 catalytic converter bolts, but do not fully tighten at this stage.

3.

- Install and tighten the clamp.

Renew Part: [Catalytic converter to turbocharger clamp](#) *Quantity:* **1**.

Torque: **13Nm**

- Fully tighten the 2 catalytic converter bolts.

Torque: **25Nm**

4.

- Connect the electrical connector.

- Install the wiring harness into the clip.

5.

Install the noise, vibration and harshness material into its original position.

6.

- Install the heatshield.

- Install and tighten the 3 bolts.

Torque: **9Nm**

7.

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

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

Torque: **48Nm**

8.

- Connect the electrical connector.
- Install the wiring harness into the 2 clips.

9.

- Install the pipe assembly.
- Install the 3 clips.

10.

Install the starter motor.

Refer to: [Starter Motor](#) (303-06C Starting System - INGENIUM I6 3.0L Petrol, Removal and Installation).

11.

Install the exhaust system.

Refer to: [Exhaust System](#) (309-00C Exhaust System - INGENIUM I6 3.0L Petrol, Removal and Installation).

12.

Install the secondary bulkhead center panel.

Refer to: [Secondary Bulkhead Center Panel](#) (501-02, Removal and Installation).

13.

Install the right air filter outlet pipe.

Refer to: [Air Filter Outlet Pipe](#) (303-12C Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol, Removal and Installation).

14.

Install the right air filter housing.

Refer to: [Air Filter Housing](#) (303-12C Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol, Removal and Installation).

15.

Connect the startup battery ground cable.

Refer to: [Startup Battery Disconnect and Connect](#) (414-00 Battery and Charging System - General Information, General Procedures).