

PUBLISHED: 25-JUN-2019
2020.0 DEFENDER (LE), 303-07C

ENGINE IGNITION - INGENIUM I6 3.0L PETROL

SPARK PLUGS (G2344517)

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SPECIAL TOOL(S)



E115268

303-1450

Spark Plug Remover/Installer

REMOVAL



NOTE:

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

1. Disconnect the startup battery ground cable.

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

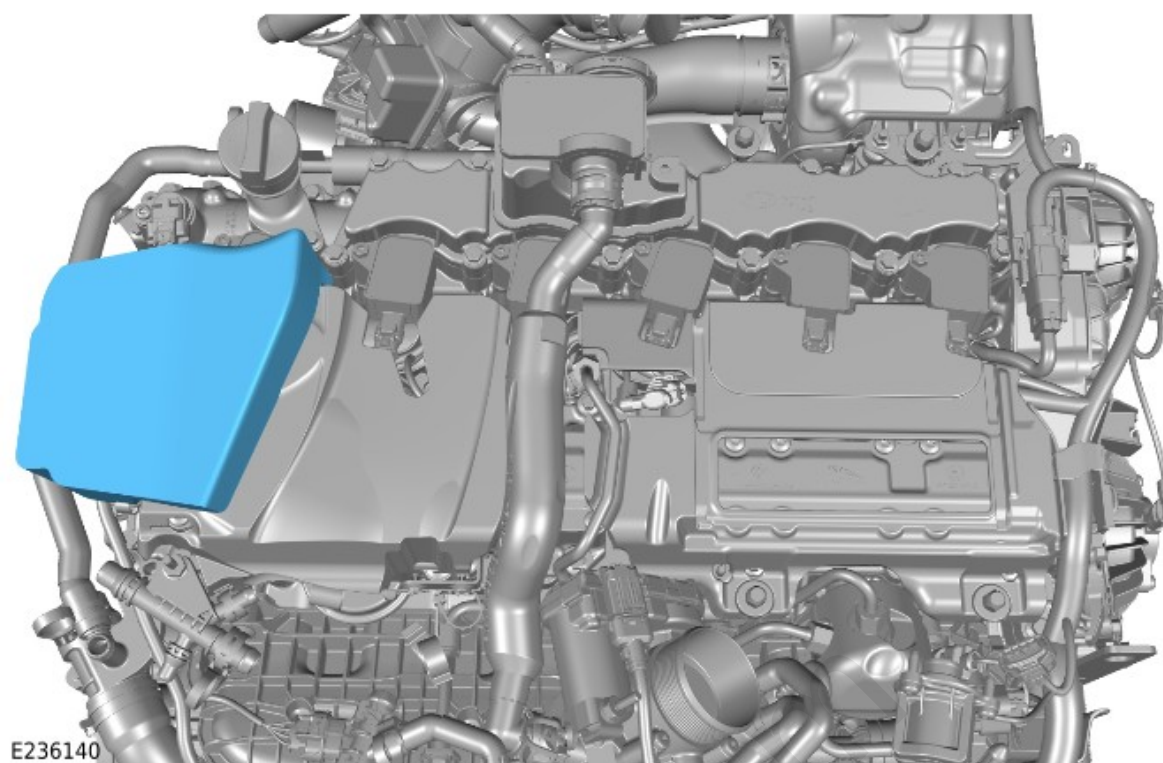
2. Position the charge air cooler in the service position.

Refer to: [Charge Air Cooler Service Position](#) (303-12C Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol, General Procedures).

3. Remove the air filter outlet pipe.

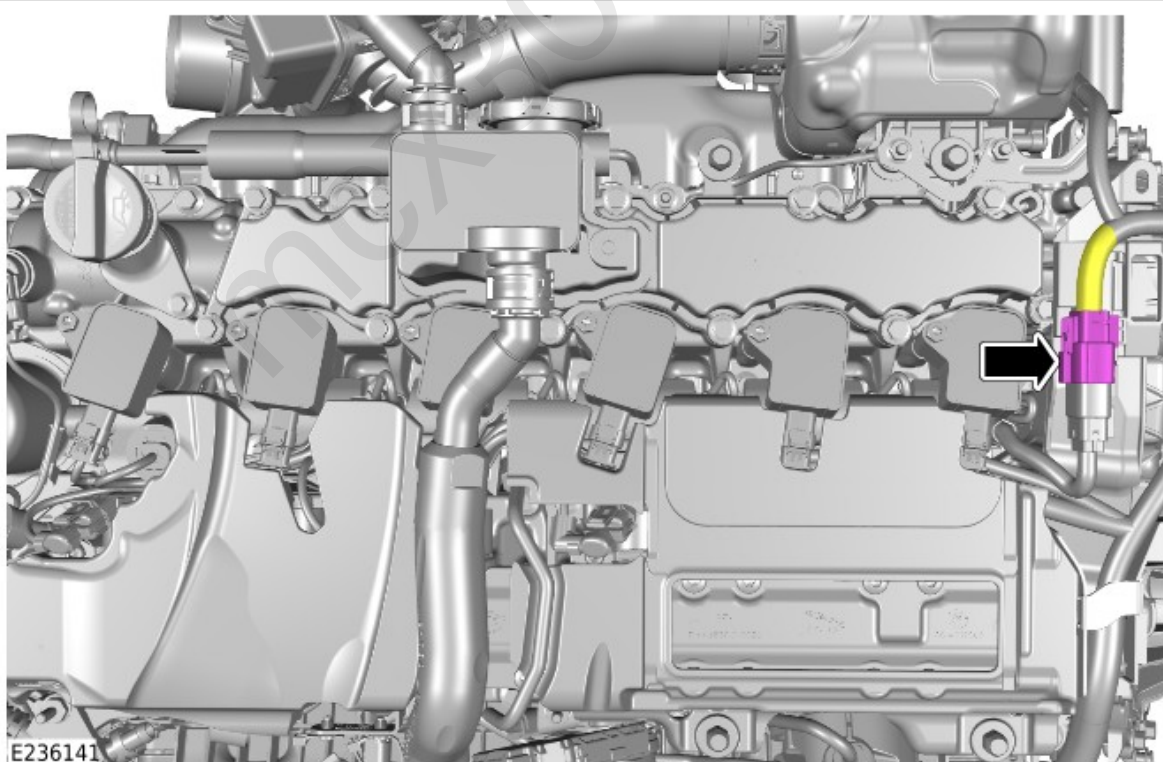
Refer to: [Air Filter Outlet Pipe](#) (303-12C Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol, Removal and Installation).

4.

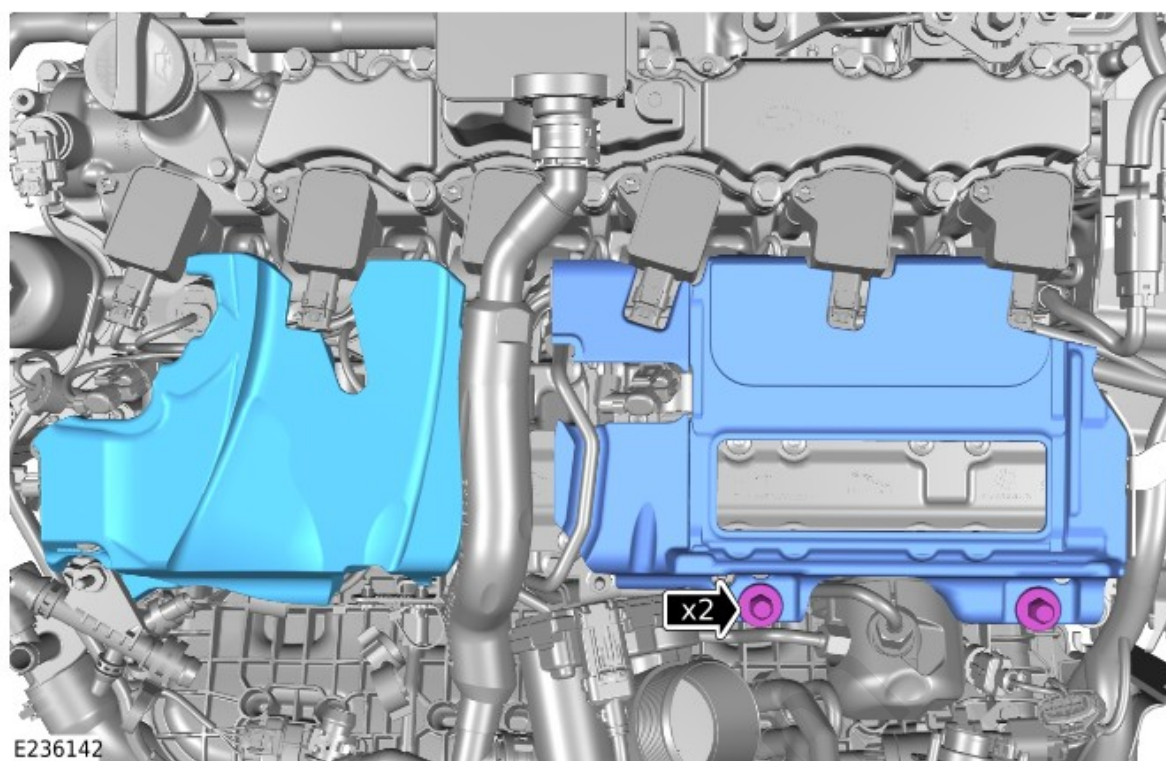


Remove the Noise, Vibration and Harshness (NVH) material.

5.

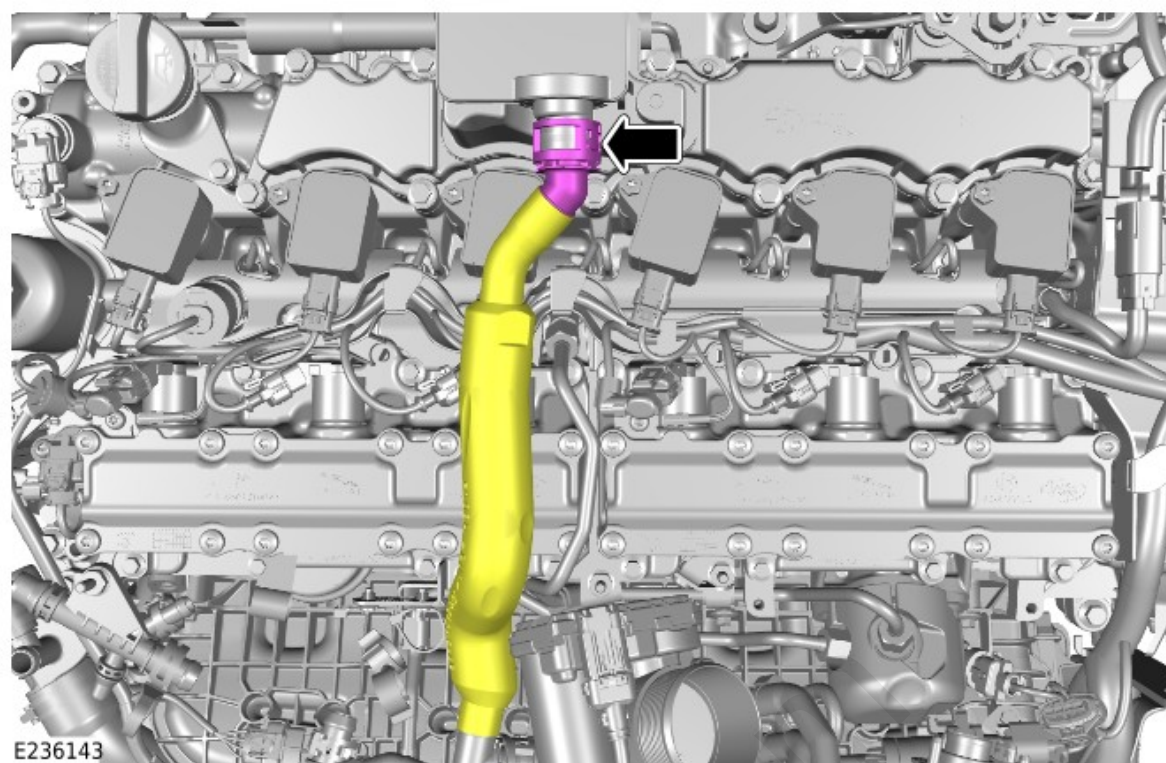


Disconnect the fuel injector wiring harness electrical connector.



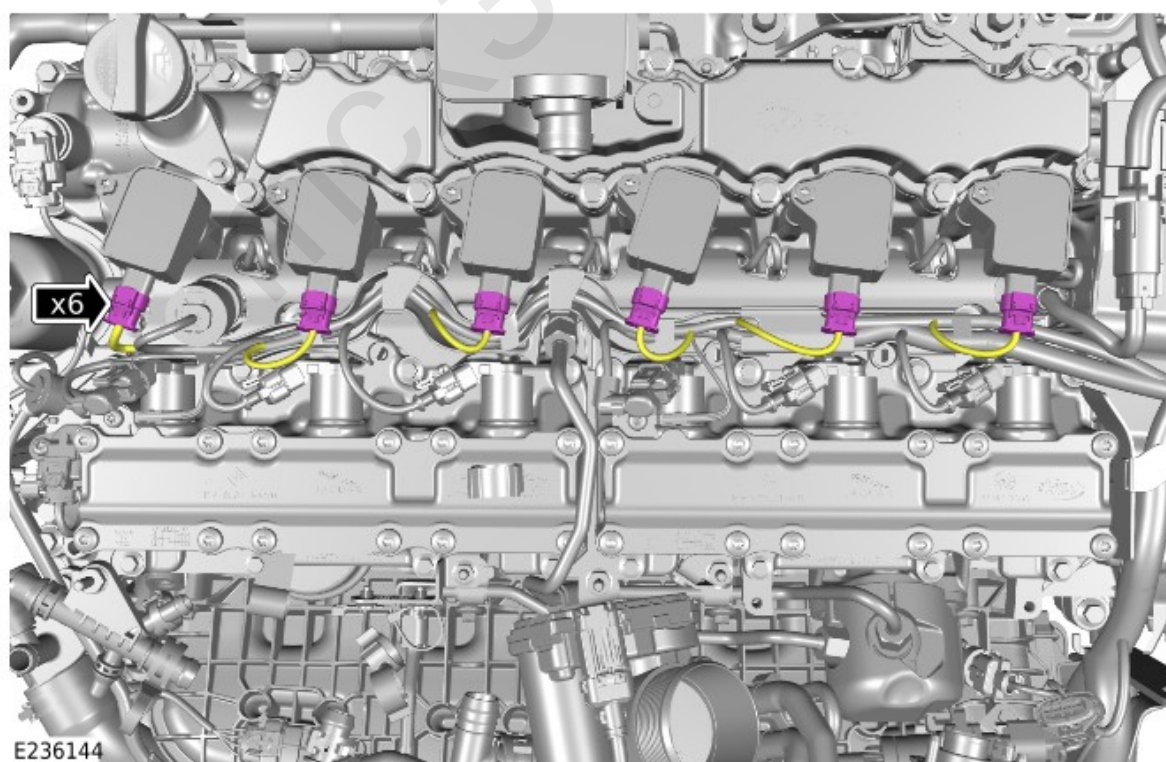
- Remove the NVH material.
- Remove the 2 bolts.
- Remove the cover.

7.



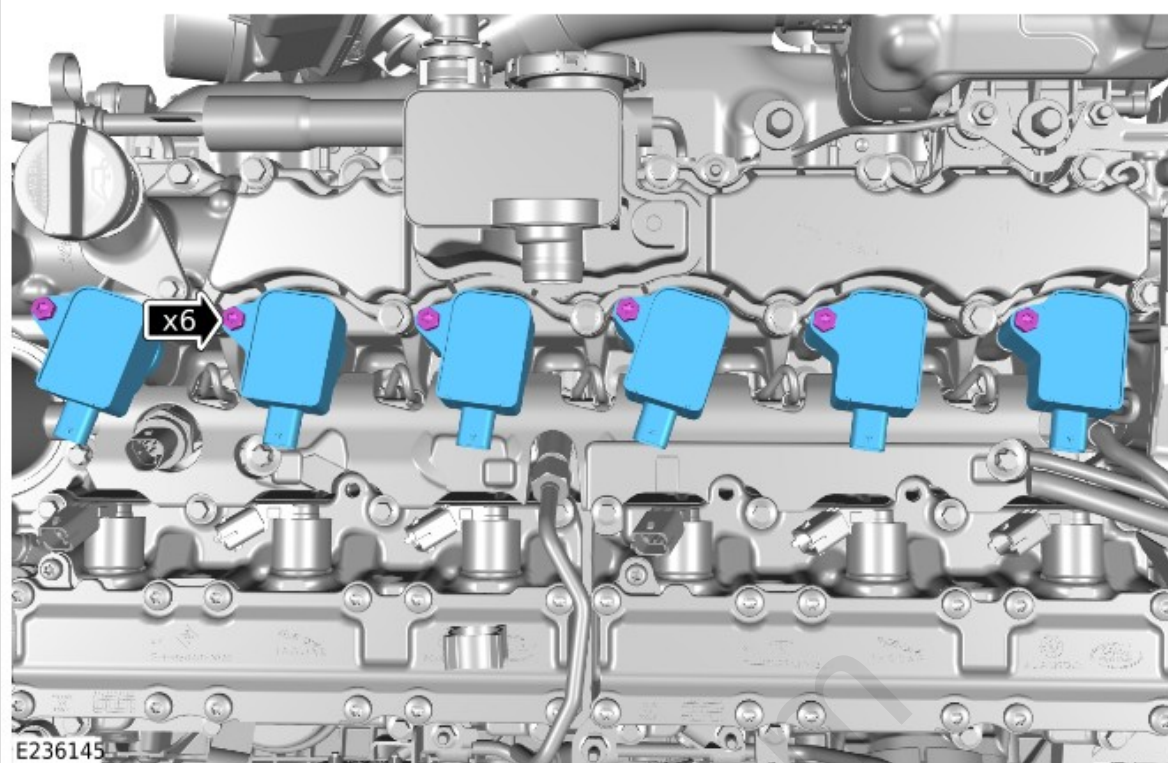
- Disconnect the breather pipe.
- Reposition the breather pipe away from the ignition coils.

8.



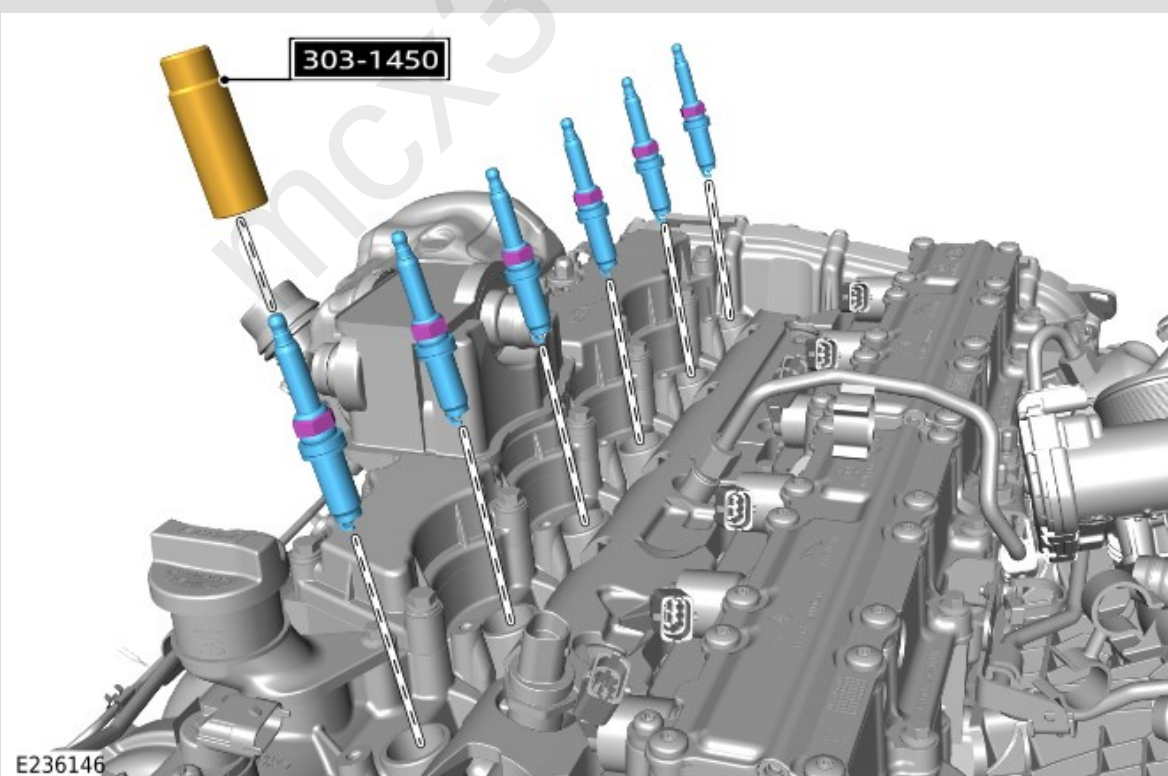
Disconnect the 6 electrical connectors.

9.



- Remove the 6 bolts.
- Remove the 6 ignition coils.

10.



Use the special tool to remove the 6 spark plugs.

Special Tool(s): [303-1450](#)

INSTALLATION

1. Check the spark plug gap.

Refer to: [Specifications](#) (303-07C Engine Ignition - INGENIUM I6 3.0L Petrol, Specifications).

2.



NOTE:

Make sure the mating surfaces are clean and free of foreign material.

Use the special tool to install and tighten the 6 spark plugs.

Special Tool(s): [303-1450](#)

Torque: **23Nm**

3.

- Install the 6 ignition coils.
- Install and tighten the 6 bolts.

Torque: **8Nm**

4.

Connect the 6 electrical connectors to the ignition coils.

5.

- Reposition the breather pipe in the correct location.
- Connect the breather pipe.

6.

- Install the Noise, Vibration and Harshness (NVH) material.
- Install the cover.
- Install and tighten the 2 bolts.

Torque: **10Nm**

7.

Connect the fuel injector harness electrical connector.

8.

Install the NVH material.

9.

Install the 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).

10.

Reposition the charge air cooler in the correct location.

Refer to: [Charge Air Cooler Service Position](#) (303-12C Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol, General Procedures).

11. Connect the startup battery ground cable.

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

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