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2020.0 DEFENDER (LE), 412-01

CLIMATE CONTROL

AIR CONDITIONING COMPRESSOR – INGENIUM I6 3.0L PETROL (G2415395)

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REMOVAL AND INSTALLATION

PART(S)

STEP	PART NAME	QUANTITY
Installation Step 2	Air conditioning pipe to compressor O-ring seal(s)	4

REMOVAL

ⓘ CAUTION:

Before disconnecting any components, make sure the area is clean and free from foreign material. When disconnected all components must be sealed.

△ NOTES:

- 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. 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. Evacuate the Air Conditioning (A/C) system.

Refer to: [Air Conditioning System Recovery, Evacuation and Charging](#) (412-00 Climate Control System - General Information, General Procedures).

4. Remove the clean air duct.

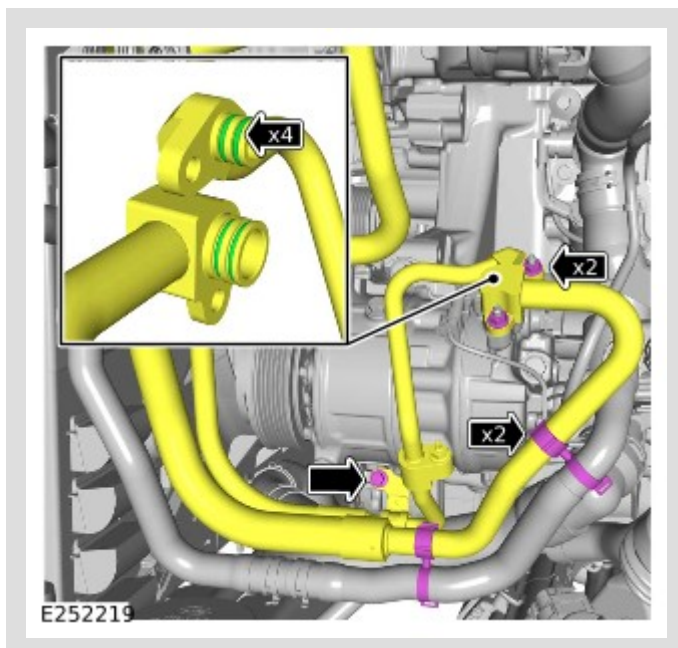
Refer to: [Air Filter Outlet Pipe](#) (303-12C Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol, Removal and Installation).

5. Remove the Belt Integrated Starter Generator (BISG).

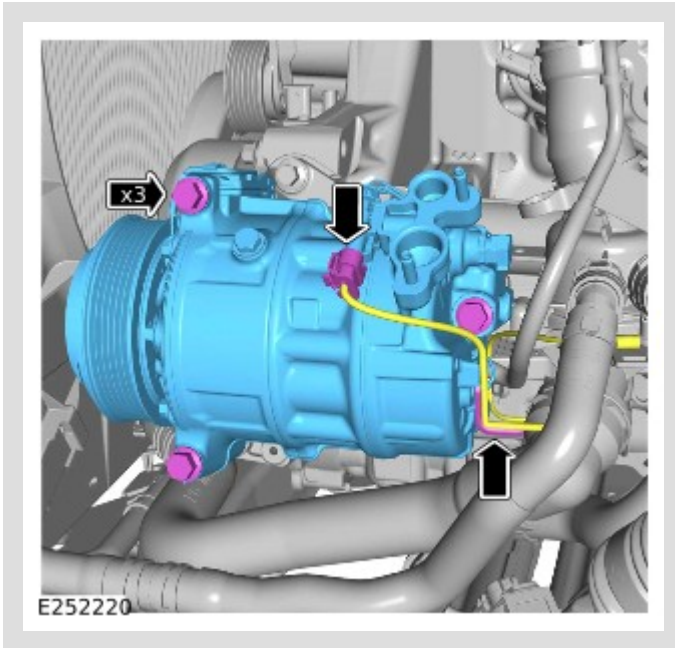
Refer to: [Belt Integrated Starter Generator](#) (414-02C Generator and Regulator - INGENIUM I6 3.0L Petrol, Removal and Installation).

ⓘ CAUTION:

Make sure the 4 O-ring seals are discarded.



- Release the 2 clips from the A/C pipes.
- Remove the 2 nuts.
- Remove the A/C pipe bracket bolt.
- Release and reposition the 2 A/C pipes.
- Remove and discard the 4 O-ring seals.



- Disconnect the electrical connector from the A/C compressor.
- Release the wiring harness clip from the A/C compressor.
- Remove the 3 bolts.
- Remove the A/C compressor.

INSTALLATION

1.

- Install the Air Conditioning (A/C) compressor.
- Install and tighten the 3 bolts.
Torque: 25Nm
- Install the wiring harness clip to the A/C compressor.
- Connect the electrical connector to the A/C compressor.

2.

CAUTION:

Make sure the 4 new O-ring seals are installed.

NOTE:

Lubricate the O-ring seals with clean refrigerant oil.

- Install the 4 new O-ring seals to the 2 A/C pipes.
Renew Part: [Air conditioning pipe to compressor O-ring seal\(s\)](#) Quantity: 4.
- Connect the 2 A/C pipes to the A/C compressor.
- Install and tighten the 2 nuts.
Torque: 9Nm
- Install and tighten the A/C pipe bracket bolt.
Torque: 9Nm
- Install the 2 clips to the A/C pipes.

3.

Install the Belt Integrated Starter Generator (BISG).

Refer to: [Belt Integrated Starter Generator](#) (414-02C Generator and Regulator - INGENIUM I6 3.0L Petrol, Removal and Installation).

4.

Install the clean air duct.

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

5.

Connect the startup battery ground cable.

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

6.

Recharge the A/C system to the correct specification.

Refer to: [Air Conditioning System Recovery, Evacuation and Charging](#) (412-00 Climate Control System - General Information, General Procedures).

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