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2020.0 DEFENDER (LE), 414-01B

BATTERY, MOUNTING AND CABLES – VEHICLES WITH: MHEV

ELECTRIC SUPERCHARGER TO FRONT JUNCTION BOX CABLES [G2422533]

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GENERAL EQUIPMENT

EQUIPMENT NAME
Cable ties
Transmission jack

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.
- Note the position of the cables to aid installation.

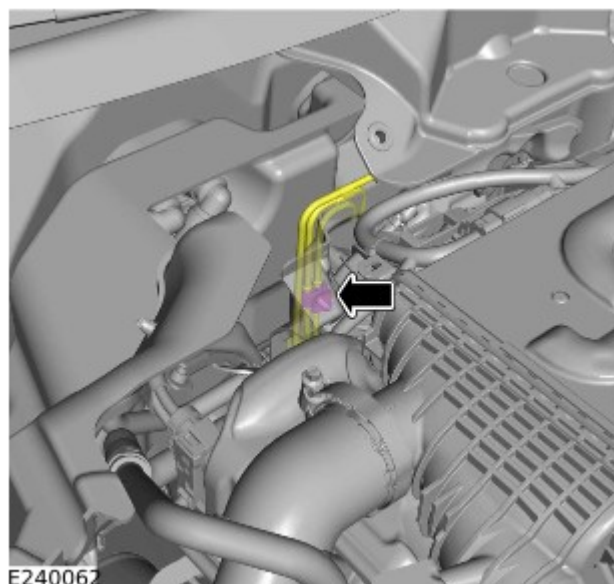
1. Raise and support the vehicle on a suitable 2 post lift.
Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).

2. Power down the Mild Hybrid Electric Vehicle (MHEV) system.
Refer to: MHEV Power Down/Up (414-01, General Procedures).

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

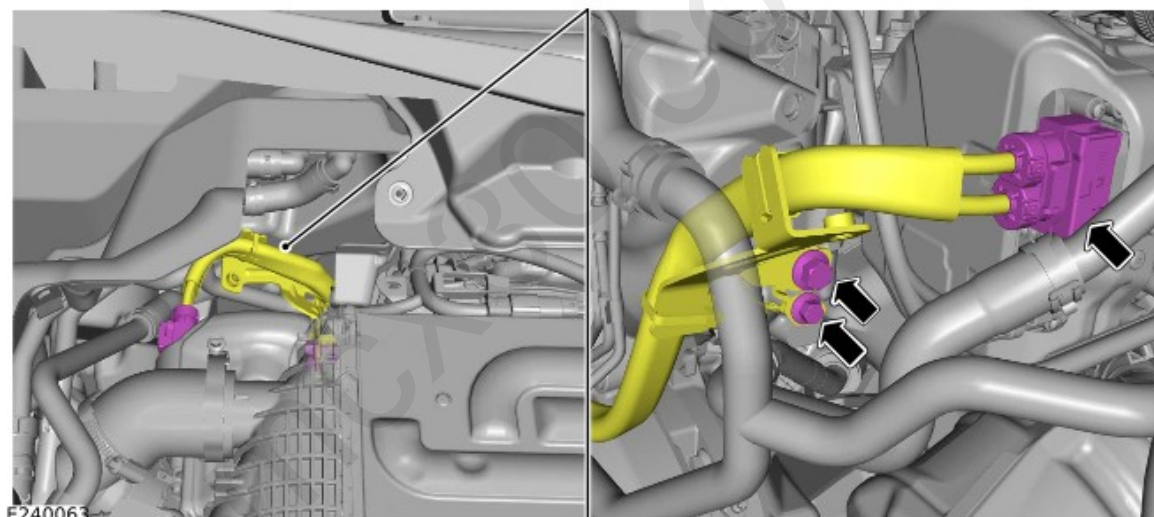
4. Remove the secondary bulkhead center panel.
Refer to: Secondary Bulkhead Center Panel (501-02, Removal and Installation).

5.



Release the 2 breather pipes from the clip.

6.

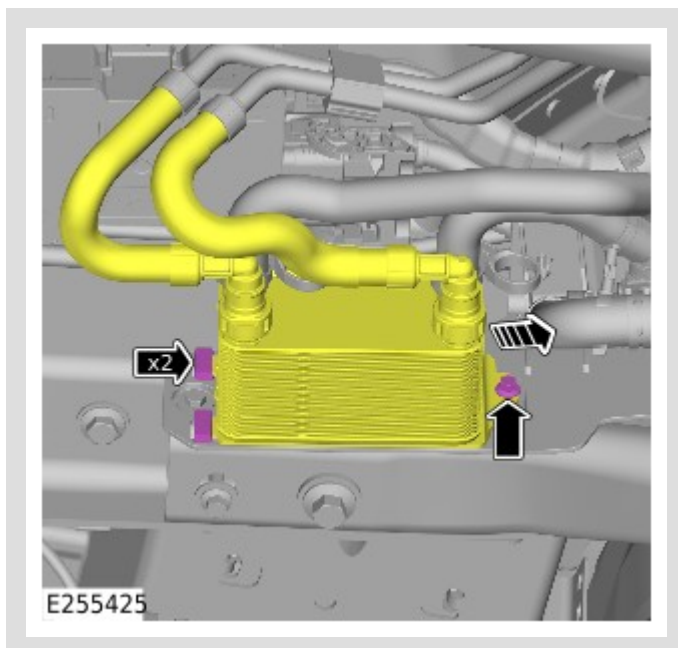


- Disconnect the electrical connector from the electric supercharger.
- Remove the bracket bolt.
- Remove the ground bolt.

7.

ⓘ CAUTION:

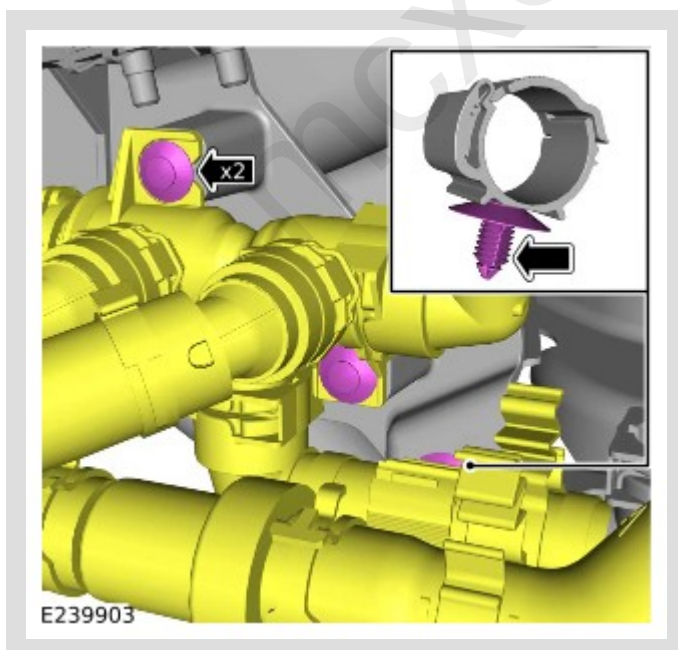
Make sure there is no tension on the coolant hoses when the oil cooler is removed. Use suitable equipment to support the oil cooler.



- Remove the bolt.
- Release the oil cooler and tie aside.

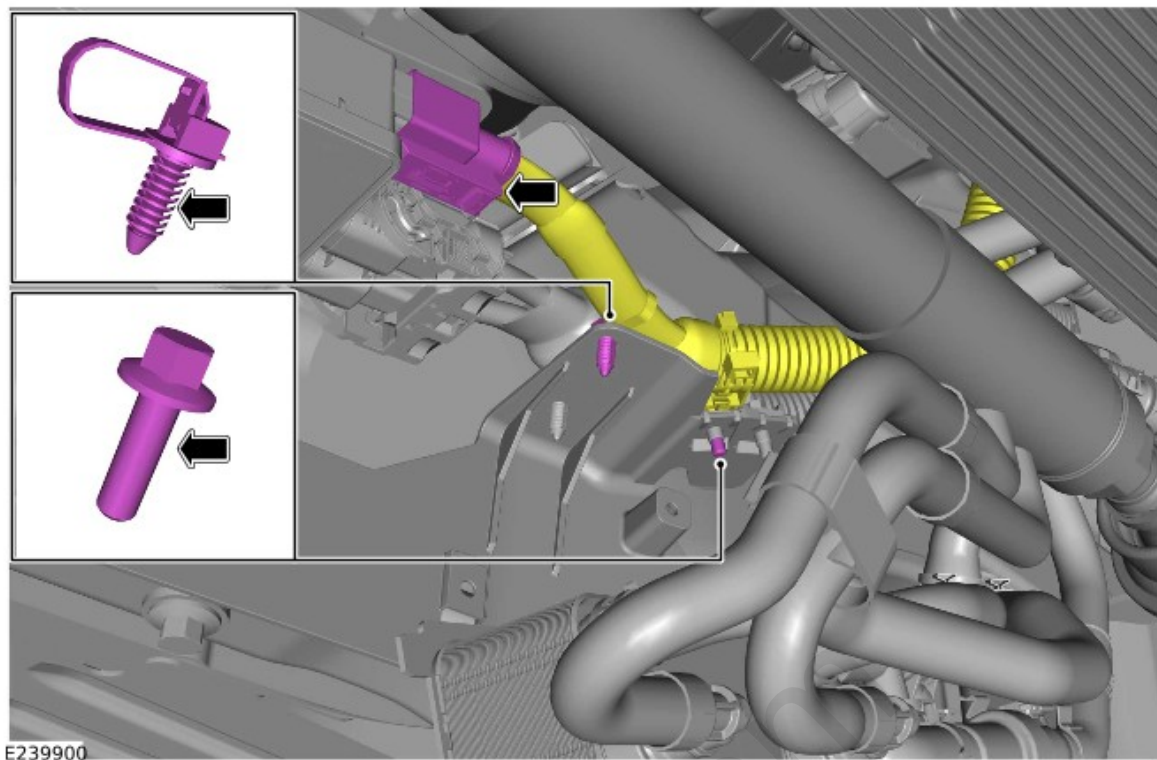
General Equipment: [Cable ties](#)

8.



- Remove the 2 fasteners.
- Release the clip.
- Release the coolant hoses from the bracket.

9.



- Disconnect the electrical connector from the MHEV battery junction box.
- Release the wiring harness clip.
- Remove the bolt.

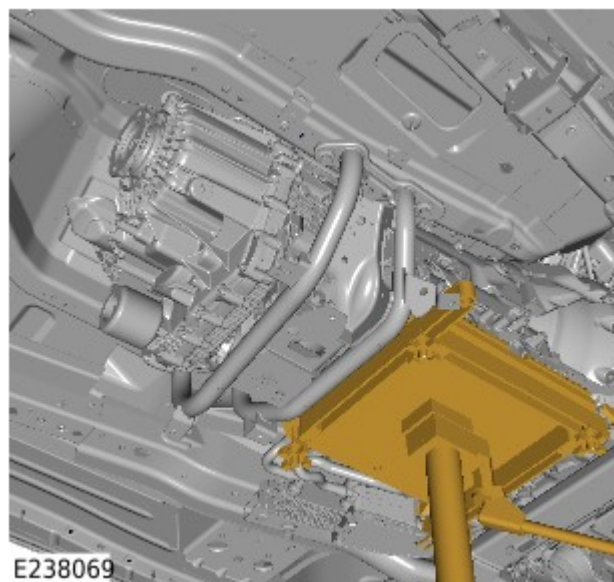
10. Remove the rear driveshaft.

Refer to: [Rear Driveshaft](#) (205-01 Driveshaft, Removal and Installation).

11. Remove the front driveshaft.

Refer to: [Front Driveshaft](#) (205-01 Driveshaft, Removal and Installation).

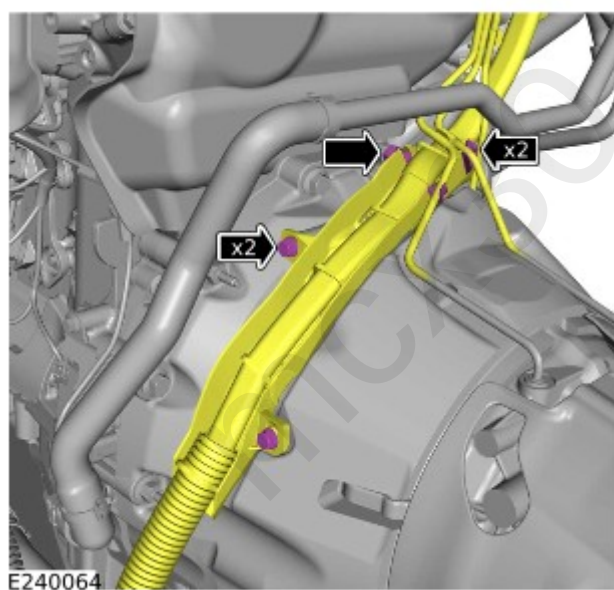
12.



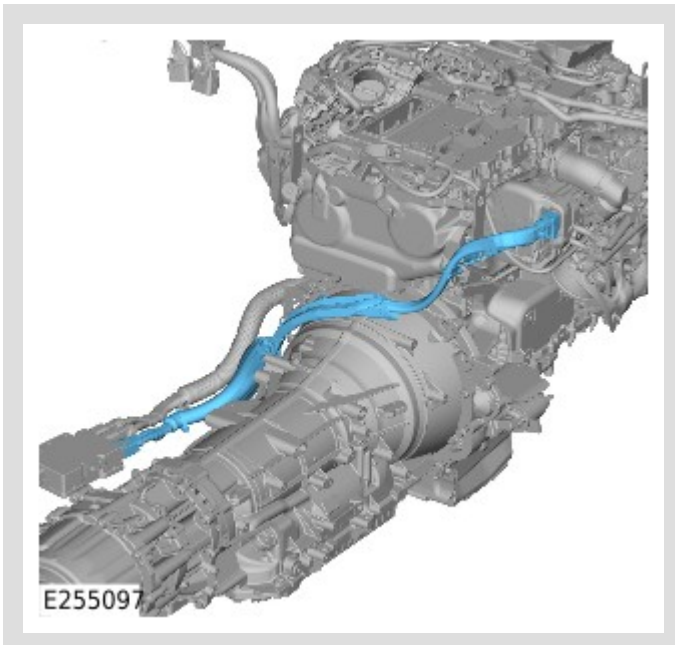
Lower the height of the transmission jack by 20 mm.

General Equipment: [Transmission jack](#)

13.



- Release the 2 breather pipes from the 2 clips.
- Remove the 2 bolts.
- Release the wiring harness bracket.



Remove the MHEV battery junction box to electric supercharger cables.

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INSTALLATION

1. Install the MHEV battery junction box to electric supercharger cables.

- 2.
- Install the wiring harness bracket.
 - Install and tighten the 2 bolts.
Torque: 10Nm
 - Install the 2 breather pipes to the 2 clips.

3. Raise the transmission jack.

4. Install the front driveshaft.
Refer to: [Front Driveshaft](#) (205-01 Driveshaft, Removal and Installation).

5. Install the rear driveshaft.
Refer to: [Rear Driveshaft](#) (205-01 Driveshaft, Removal and Installation).

- 6.
- Connect the electrical connector to the MHEV battery junction box.
 - Install the wiring harness clip.
 - Install and tighten the bolt.
Torque: 10Nm

- 7.
- Install the coolant hoses to the bracket.
 - Install the clip.
 - Install the 2 fasteners.

- 8.
- Install the oil cooler.
 - Install and tighten the bolt.
Torque: 10Nm

- 9.
- Install and tighten the ground bolt.
Torque: 12Nm
 - Install and tighten the bracket bolt.
Torque: 48Nm
 - Connect the electrical connector to the electric supercharger.

10. Install the 2 breather pipes to the clip.

11. Install the secondary bulkhead center panel.

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

12. Install the engine cover.

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

13. Power up the Mild Hybrid Electric Vehicle (MHEV) system.

Refer to: MHEV Power Down/Up (414-01, General Procedures).

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