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2020.0 DEFENDER (LE), 414-01B

BATTERY, MOUNTING AND CABLES – VEHICLES WITH: MHEV

MHEV BATTERY (G2422562)

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GENERAL EQUIPMENT

EQUIPMENT NAME
Digital multimeter

REMOVAL

 CAUTION:

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

 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).

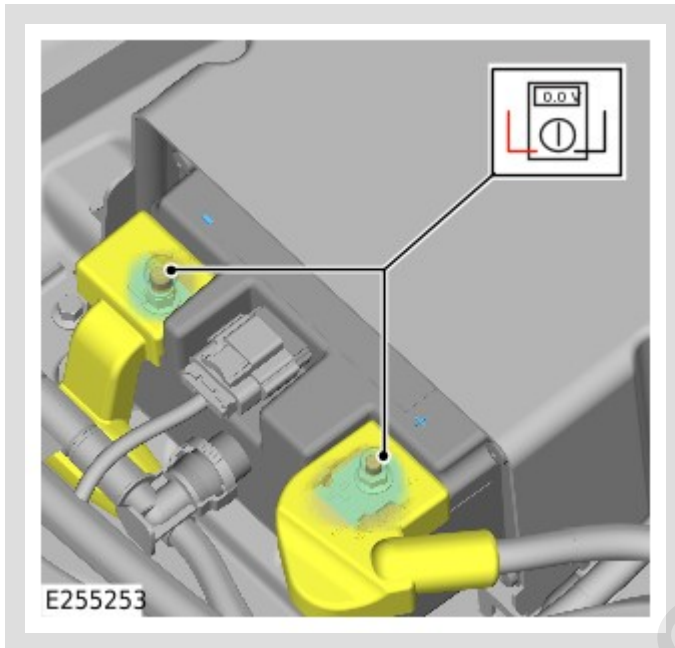
2. Remove the Mild Hybrid Electric Vehicle (MHEV) battery air duct.

Refer to: MHEV Battery Housing Air Duct (414-01, Removal and Installation).

3.

⚠ WARNING:

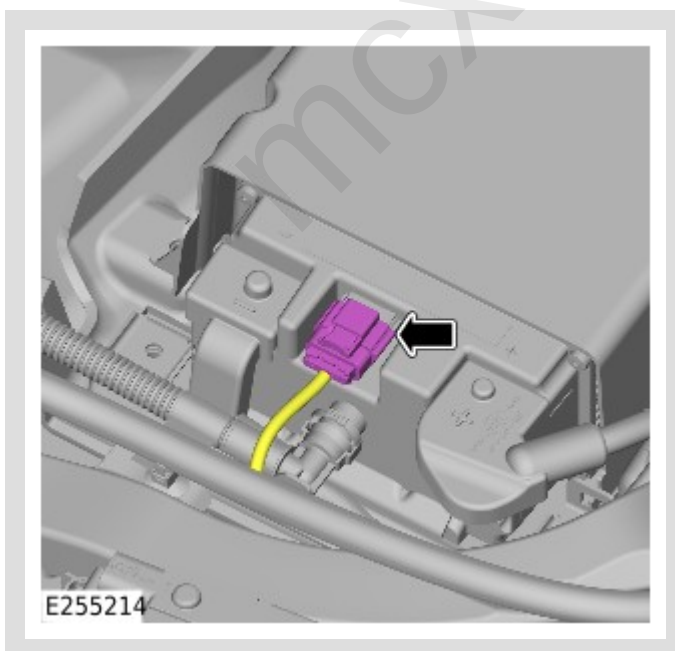
If the measured voltage exceeds 0 Volts +/- 1 Volt a fault may be present with the MHEV battery. The normal MHEV battery disconnect/connect procedure should be followed and the fault investigated.



Reposition the 2 covers and use suitable equipment to check the voltage at the MHEV battery negative and positive terminals.

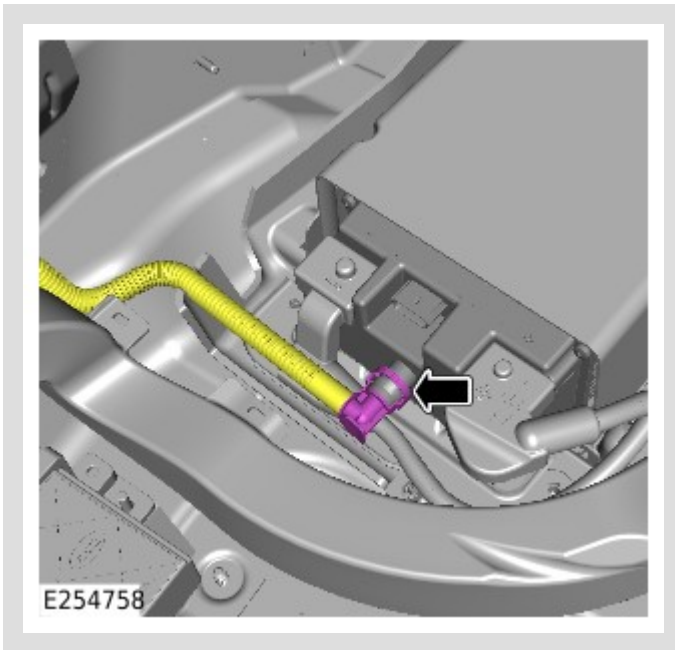
General Equipment: [Digital multimeter](#)

4.



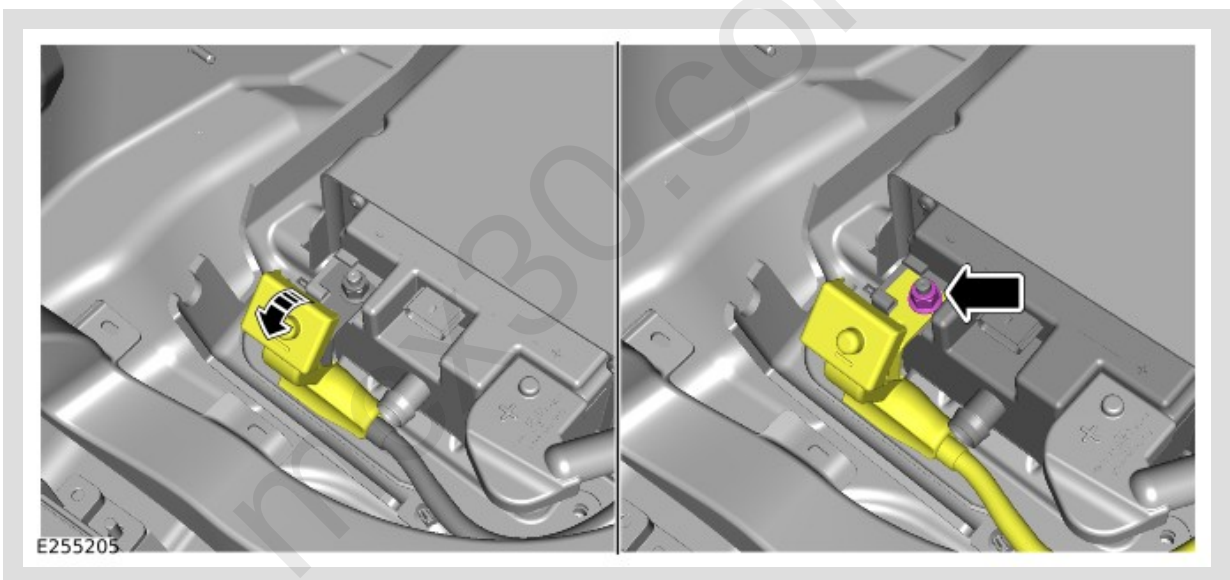
Disconnect the electrical connector from the MHEV battery.

5.



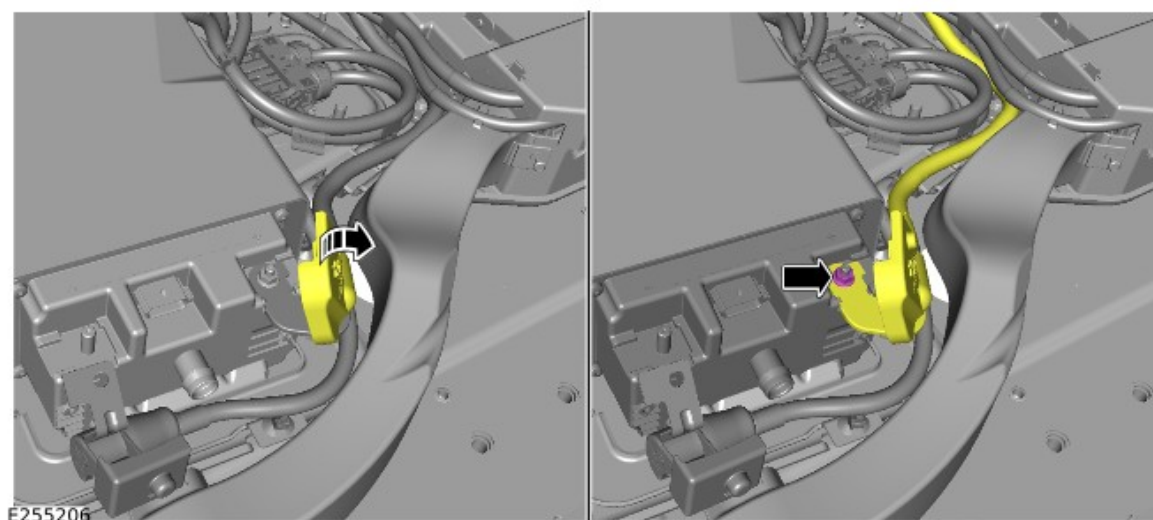
Disconnect the MHEV battery breather hose from the MHEV battery.

6.



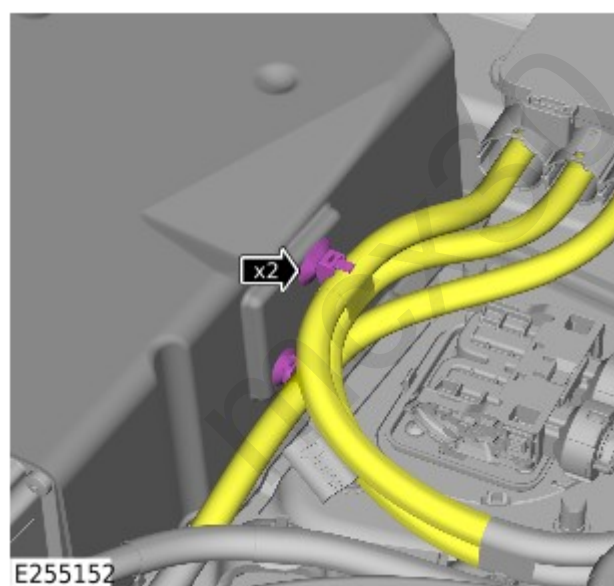
- Reposition the cover to get access to the nut.
- Remove the nut.
- Disconnect the MHEV battery ground cable.

7.



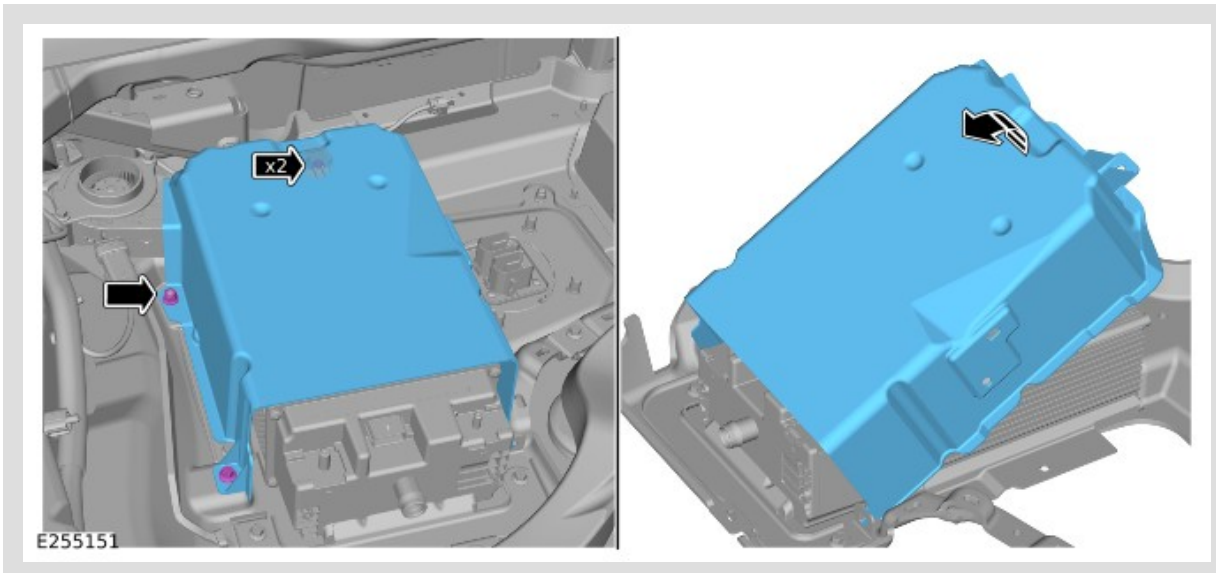
- Reposition the cover to get access to the nut.
- Remove the nut.
- Disconnect the MHEV battery positive cable.

8.



Release the 2 wiring harness clips from the MHEV battery cover.

9.

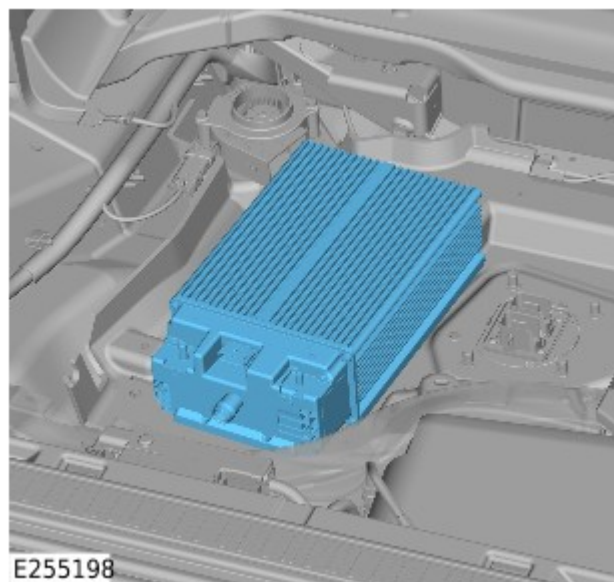


- Remove the 2 bolts.
- Remove the nut.
- Remove the MHEV battery cover.

10.



- Remove the 6 bolts.
- Remove the 3 brackets.



Remove the MHEV battery.

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INSTALLATION

1. Install the MHEV battery.

- 2.
- Install the 3 brackets.
 - Install and tighten the 6 bolts.
Torque: 10Nm

- 3.
- Install the MHEV battery cover.
 - Install and tighten the 2 bolts.
Torque: 6Nm
 - Install and tighten the nut.
Torque: 6Nm

4. Install the 2 wiring harness clips to the MHEV battery cover.

- 5.
- Connect the MHEV battery positive cable.
 - Install and tighten the nut.
Torque: 9Nm
 - Reposition the cover.

- 6.
- Connect the MHEV battery ground cable.
 - Install and tighten the nut.
Torque: 12Nm
 - Reposition the cover.

7. Connect the MHEV battery breather hose to the MHEV battery.

8. Connect the electrical connector to the MHEV battery.

9. Install the MHEV battery air duct.
Refer to: MHEV Battery Housing Air Duct (414-01, Removal and Installation).

10. 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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