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2007 FORD Ka OEM Service and Repair Workshop Manual

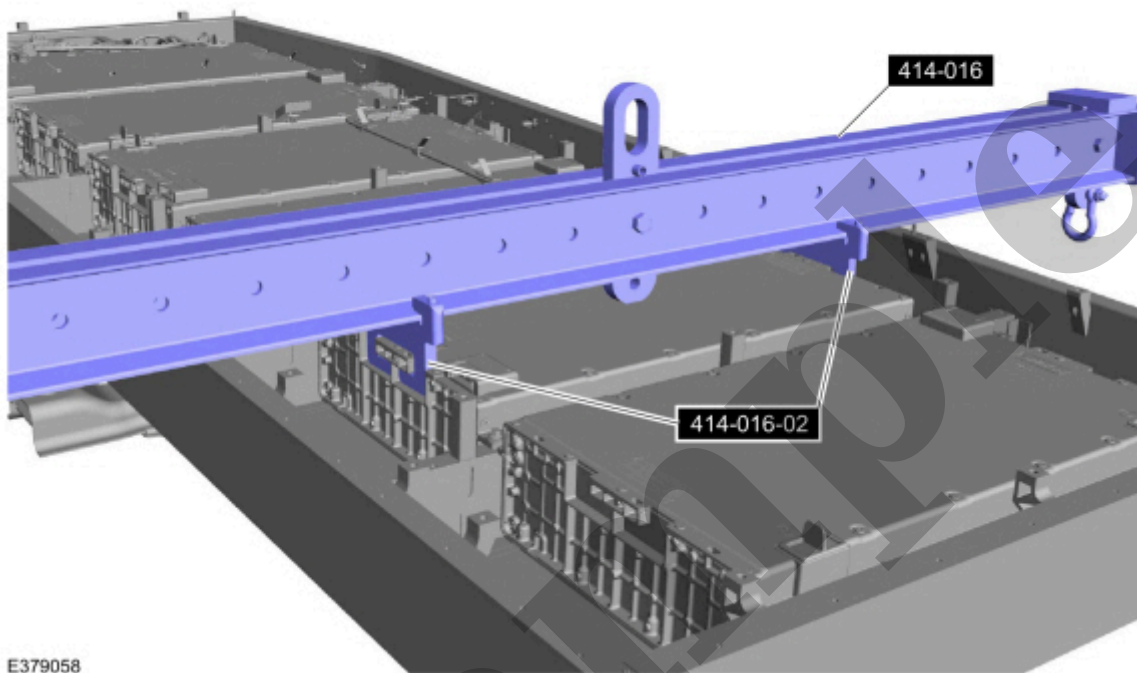
[Go to manual page](#)

27. 1. Install the battery array lift adaptors.

Use Special Service Tool : 414-016-02 Adapter for 414-016

2. Install the battery lift fixture and position the battery array lift adaptors to the lift fixture and secure.

Use Special Service Tool : 414-016 Battery Lift Fixture



E379058

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28. • Remove the cold plate nuts.
- Using a floor crane. Remove the bolts, battery array and cold plate.

Use the General Equipment: Floor Crane

Torque : 133 lb.in (15 Nm)



E376959

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4. NOTICE

Do not lift the cold plate by the coolant pipes or allow the cold plate to bend or component damage may occur.

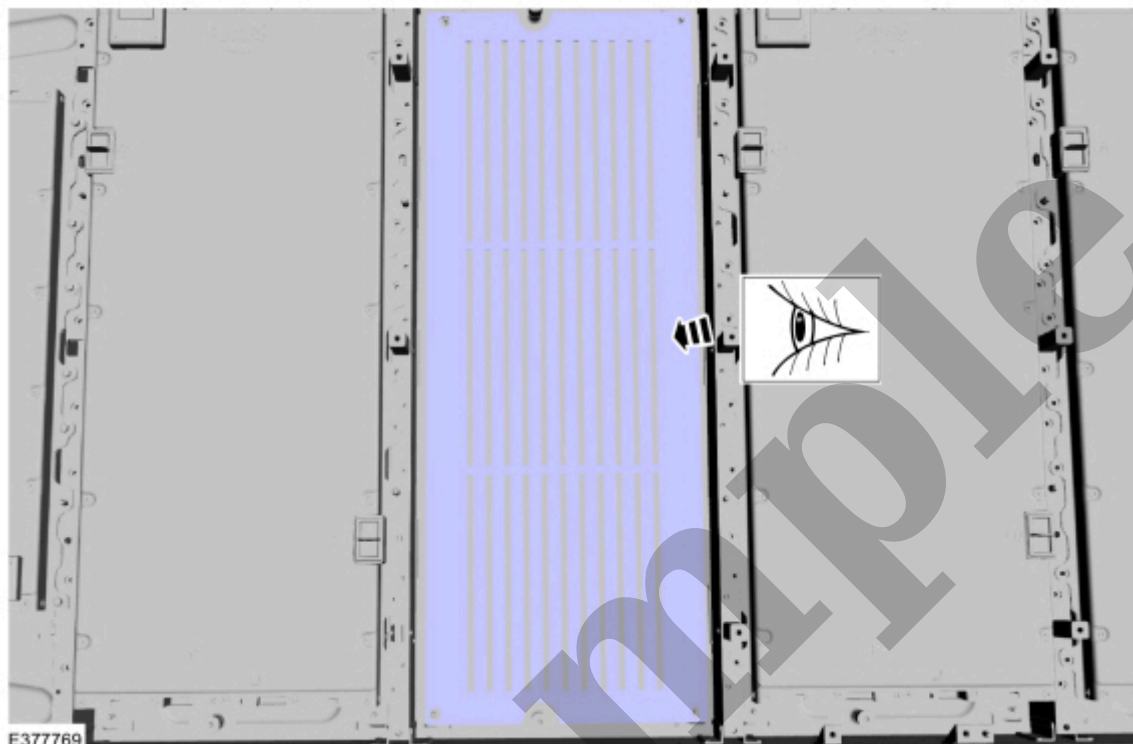
Install the cooling plate and nuts.

Torque : 80 lb.in (9 Nm)

6. **NOTE**

Make sure the correct application template is used and is properly orientated. The template must be fully seated.

Install the Thermal Interface Material (TIM) application template to the cold plate.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

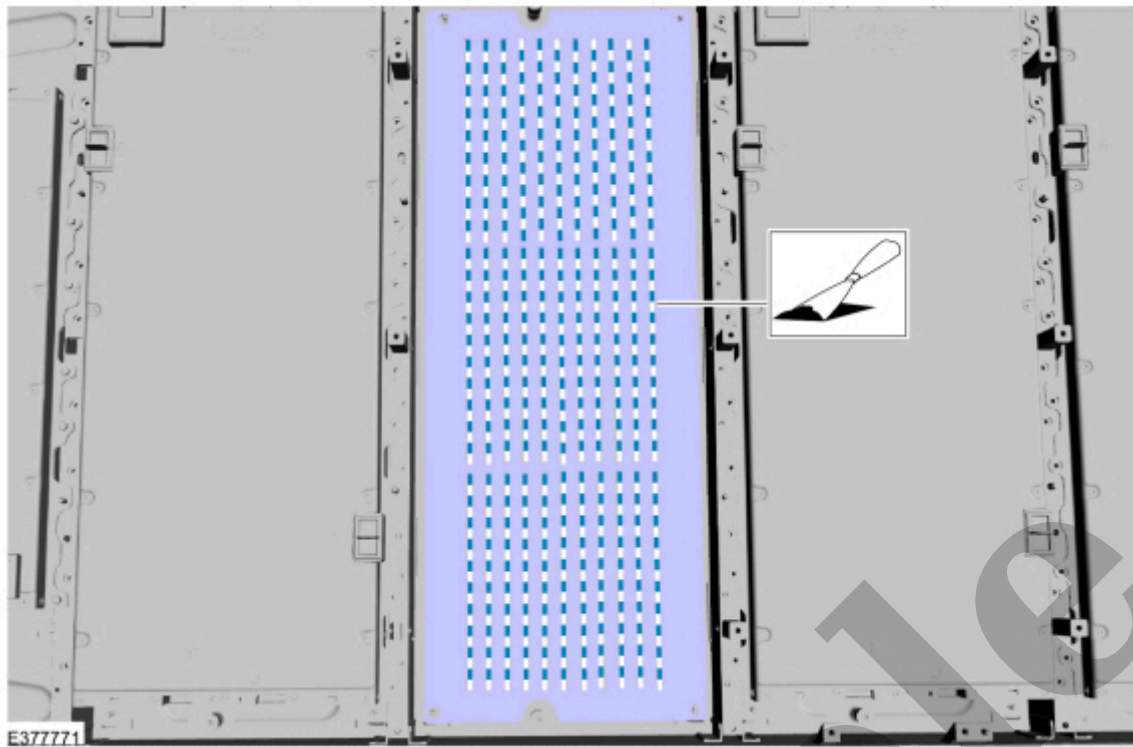
7. **NOTE**

The high voltage battery modules must be installed within 2 hours of applying the Thermal Interface Material (TIM).

NOTE

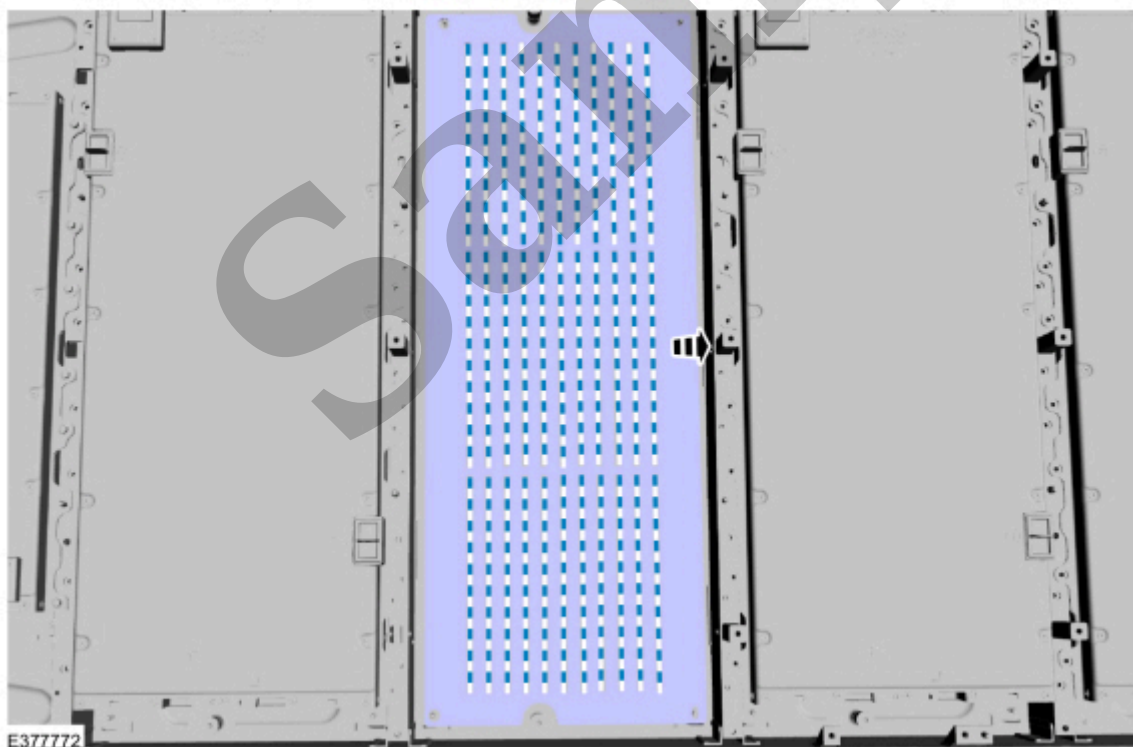
The use of two 200 mL (6.7 oz) of Thermal Interface Material (TIM) cartridges are necessary when replacing a single high voltage battery module.

NOTE

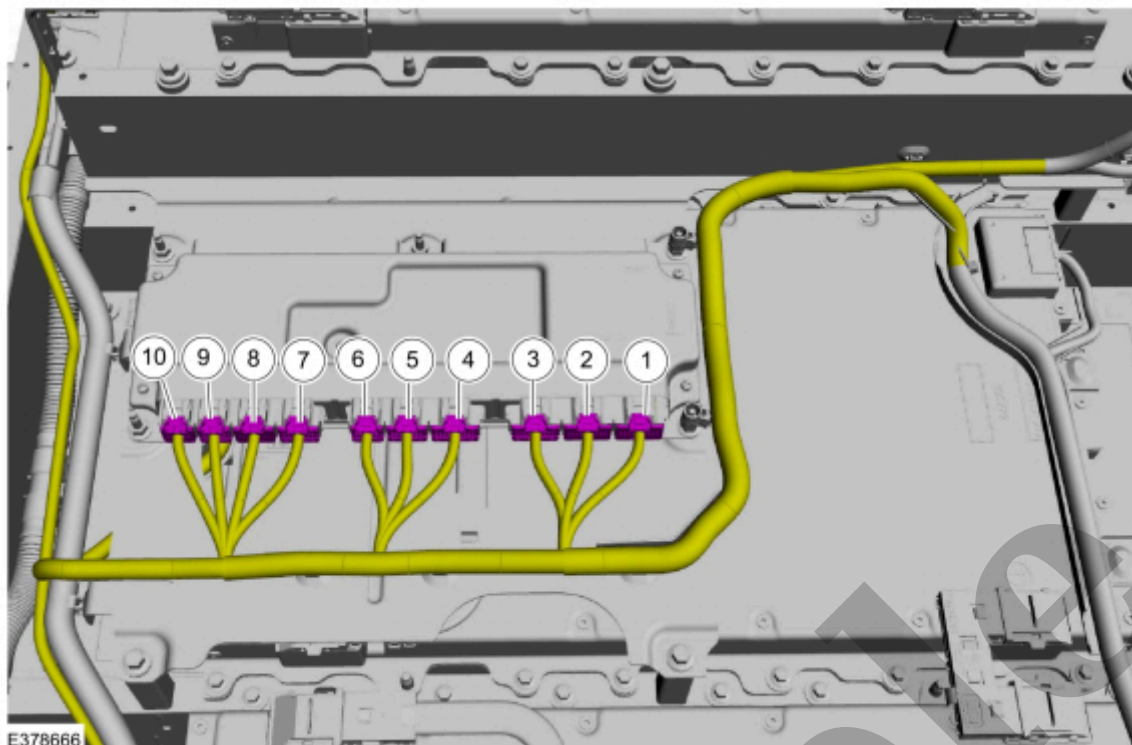


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9. Remove the Thermal Interface Material (TIM) application template from the cold plate.



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12. **NOTE**

The high voltage battery must be checked for coolant leaks before the high voltage battery cover is installed.

Check the high voltage battery for coolant leaks.

Refer to: High Voltage Battery Coolant Leak Check (302-03A Electrified Drivetrain Cooling, General Procedures).

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If the components are to be reinstalled, they must be installed in their original locations. Mark the components for installation into their original locations.

NOTE

Removal steps in this procedure may contain installation details.

1. Refer to: High Voltage System Health and Safety Precautions (100-00 General Information, Description and Operation).

2. Remove the high voltage battery.

Refer to: [High Voltage Battery - Electric](#)(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

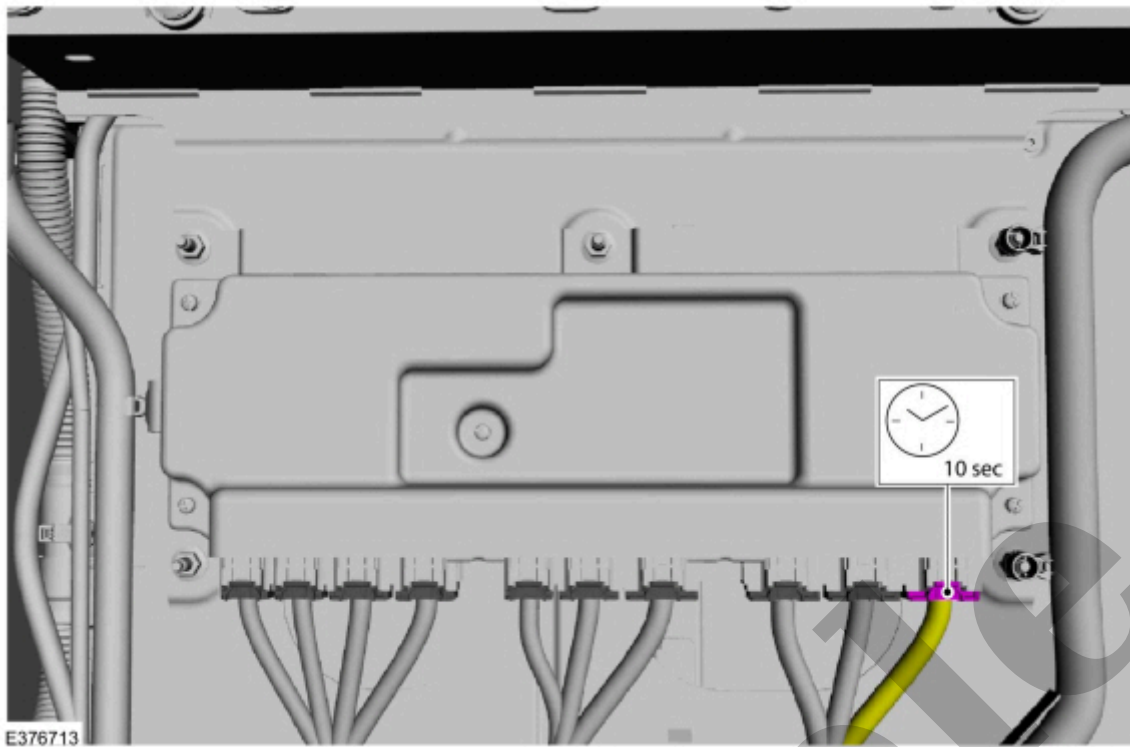
3. Remove the high voltage battery cover.

Refer to: [High Voltage Battery Cover - Electric](#)(414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).

4. **NOTICE**

The BECM electrical connectors must be disconnected in the sequence shown or component damage may occur.

Disconnect the BECM (battery energy control module) electrical connectors in the sequence shown.

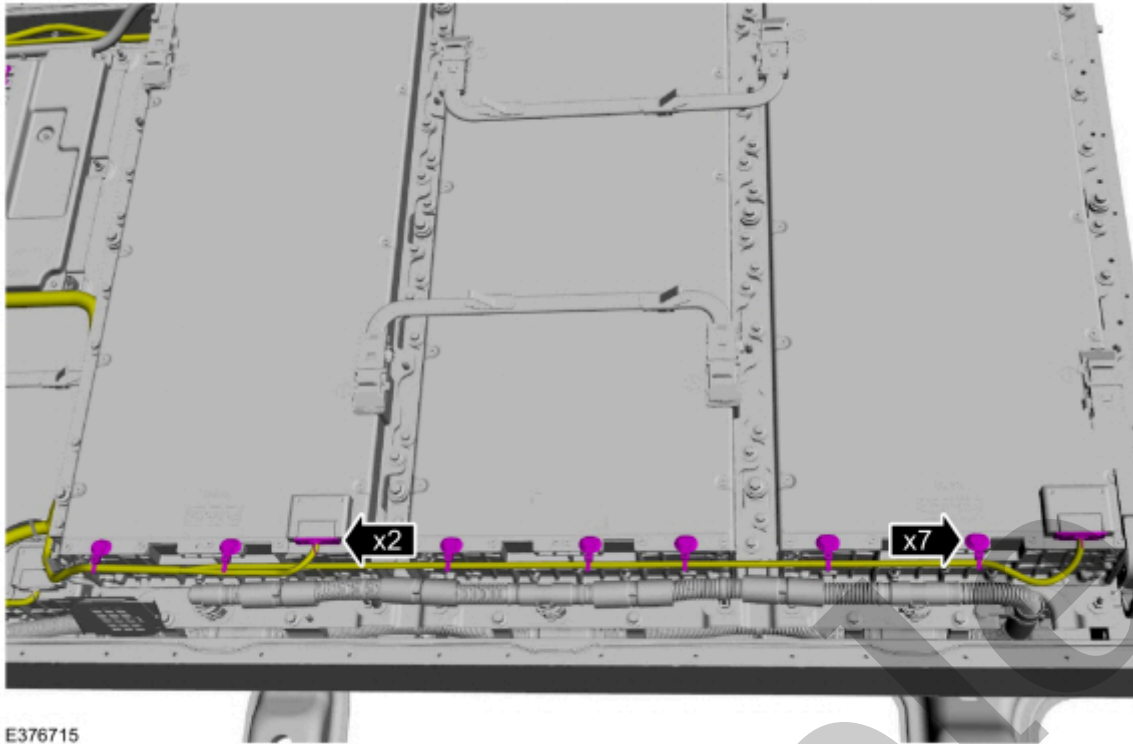


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6. NOTICE

The BECM electrical connectors must be disconnected in the sequence shown or component damage may occur.

Disconnect the BECM (battery energy control module) electrical connectors in the sequence shown.



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9. 1. Open the terminal cover and remove the bus bar bolt.

Torque : 119 lb.in (13.5 Nm)

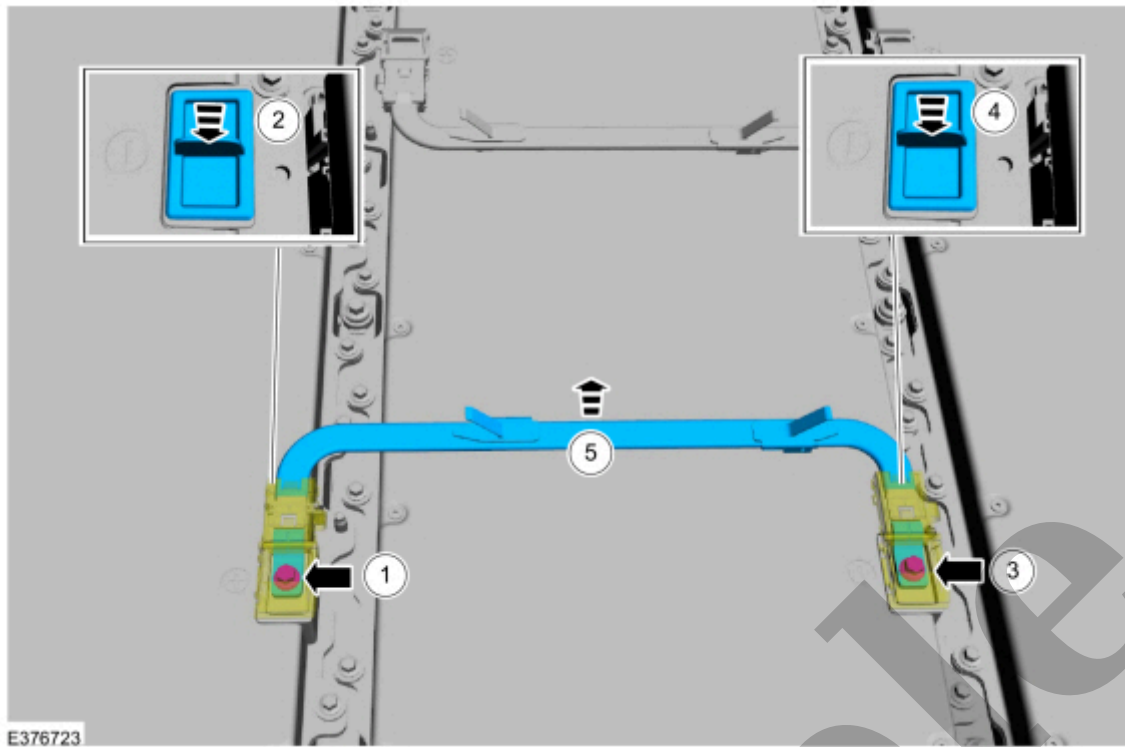
2. Install the battery module terminal cover.

3. Open the terminal cover and remove the bus bar bolt.

Torque : 119 lb.in (13.5 Nm)

4. Install the battery module terminal cover.

5. Detach the retainers and remove the bus bar.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

11. 1. Open the terminal cover and remove the bus bar bolt.
Torque : 119 lb.in (13.5 Nm)
2. Install the battery module terminal cover.
3. Open the terminal cover and remove the bus bar bolt.
Torque : 119 lb.in (13.5 Nm)
4. Install the battery module terminal cover.
5. Remove the bus bar.