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2006 FORD Ka OEM Service and Repair Workshop Manual

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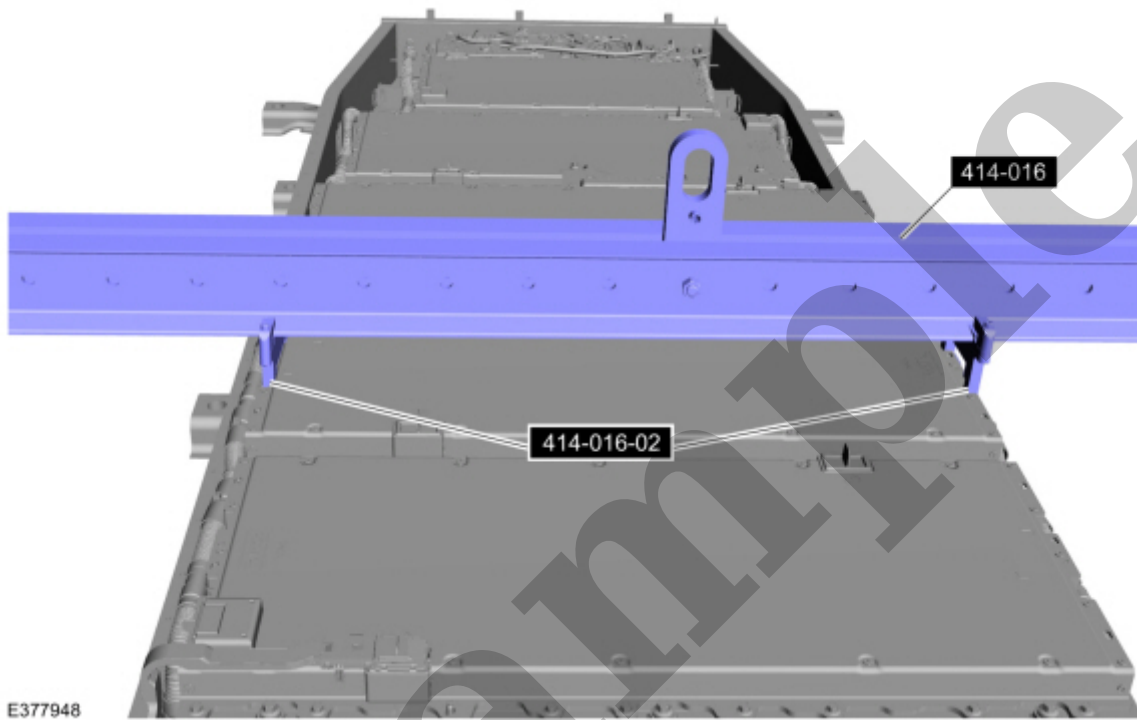
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13. 1. Install the battery array lift adaptors.

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



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14. • 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

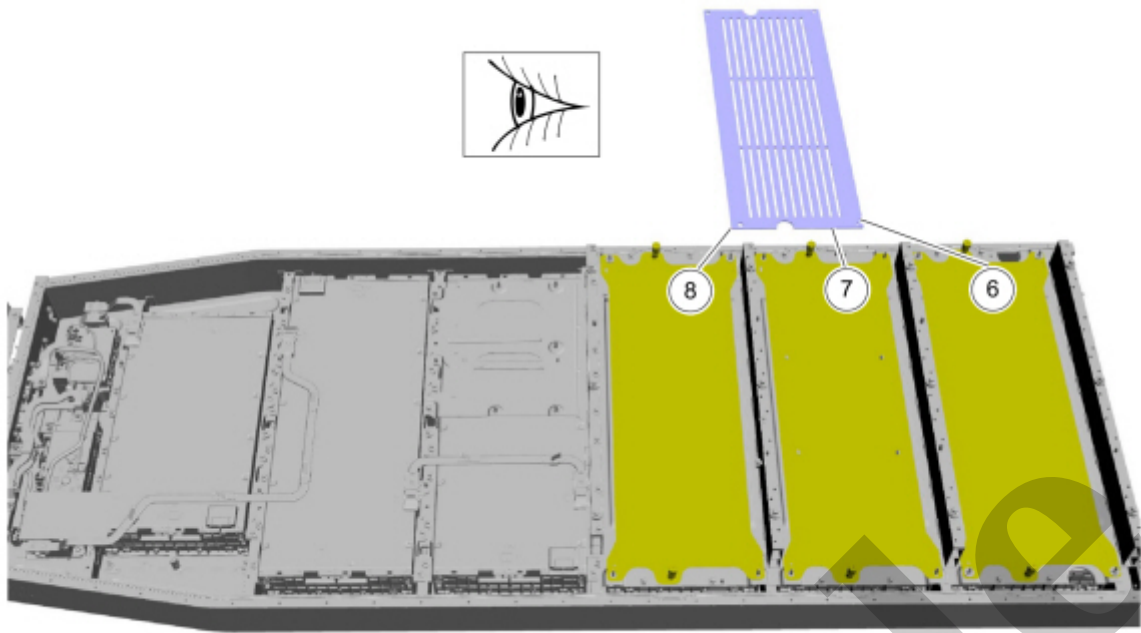
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4. NOTICE

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)



E377733

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6. **NOTE**

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

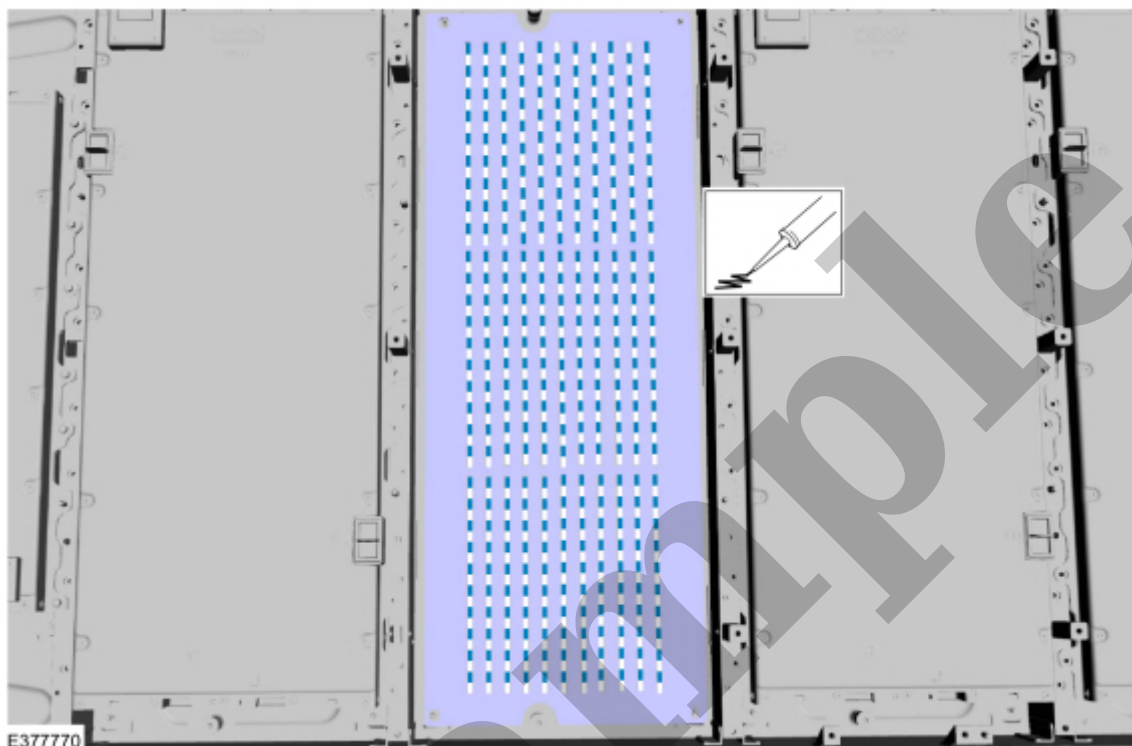
Install the Thermal Interface Material (TIM) application template to the cold plate.

and activate the power caulk gun until both parts of the TIM come out of the end of the mixing tip and is evenly mixed. Discard the premix TIM.

Using a power caulk gun, apply the Thermal Interface Material (TIM) between the template and the cold plate, slightly overfill the template spaces evenly.

Use the General Equipment: Power Caulk Gun

Material : Motorcraft® EV Battery Array Thermal Interface Material II / TA-38-B (WSS-M4G372-A1)



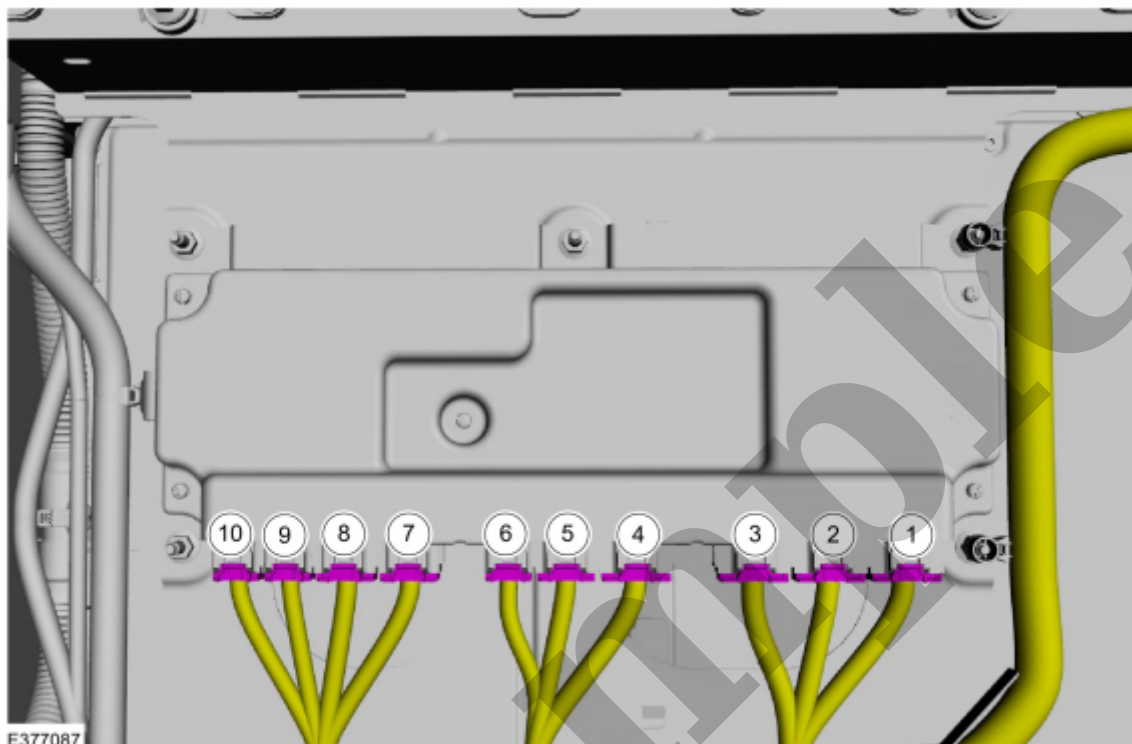
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8. Remove the excessive Thermal Interface Material (TIM) from the top of the template.

10. **NOTICE**

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

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



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

11. **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).

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).

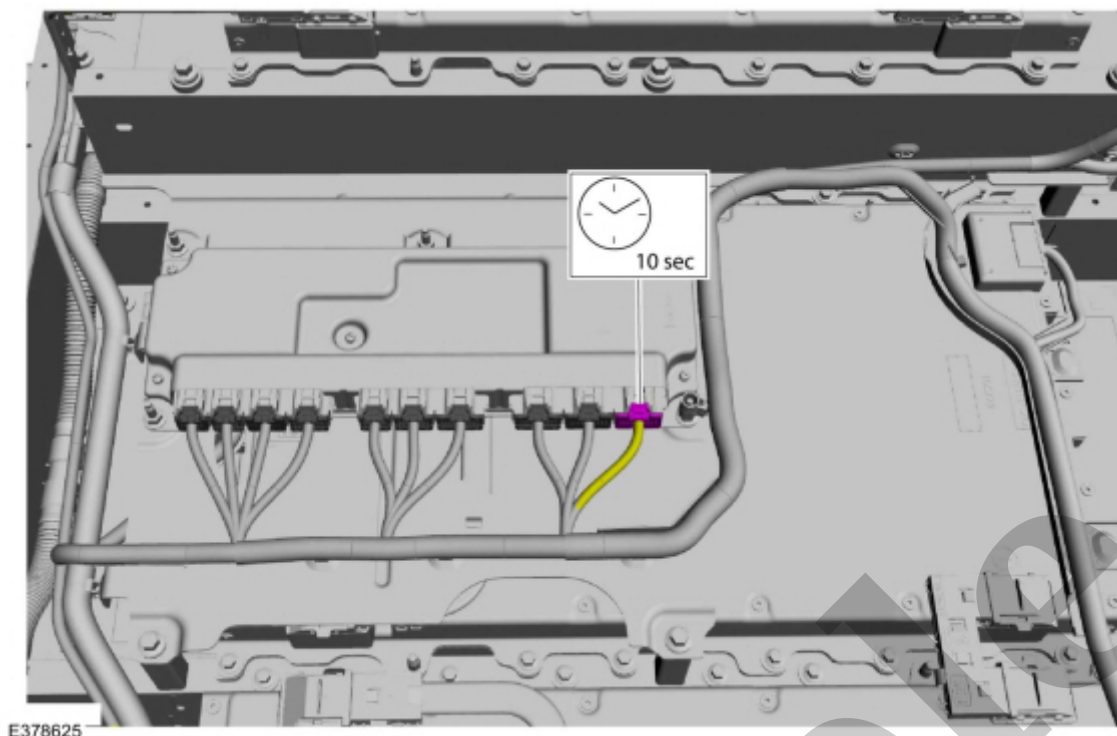
3. Remove the high voltage battery cover.

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.

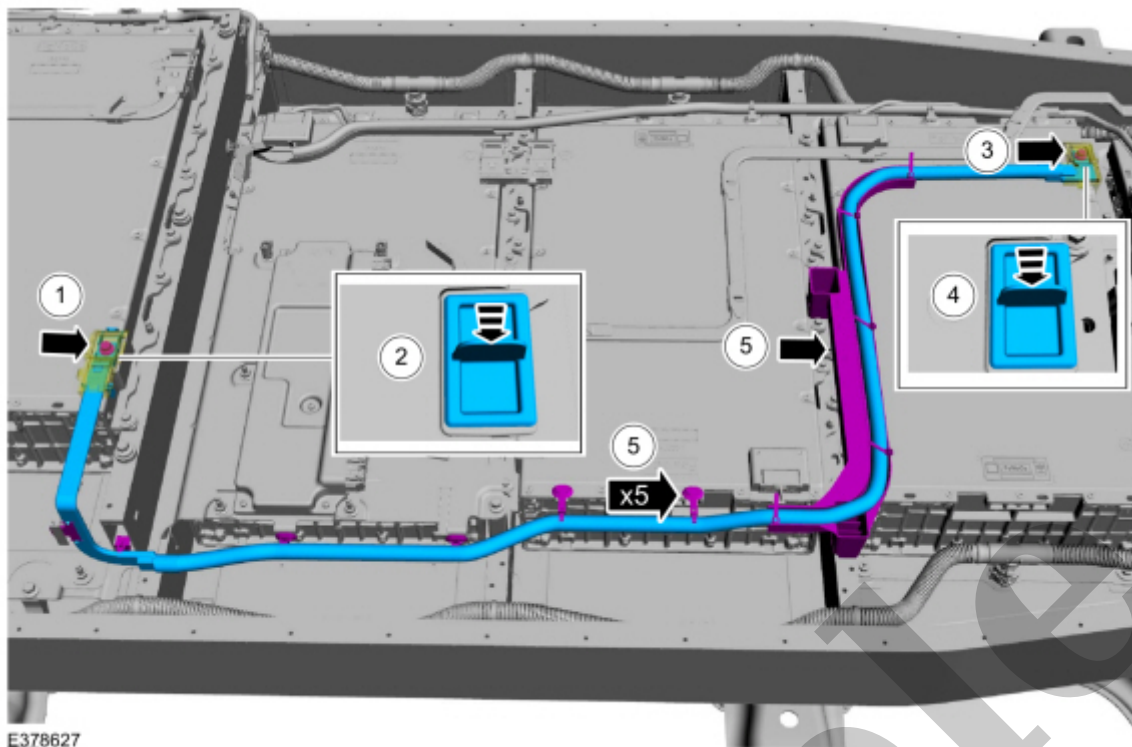


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6. NOTICE

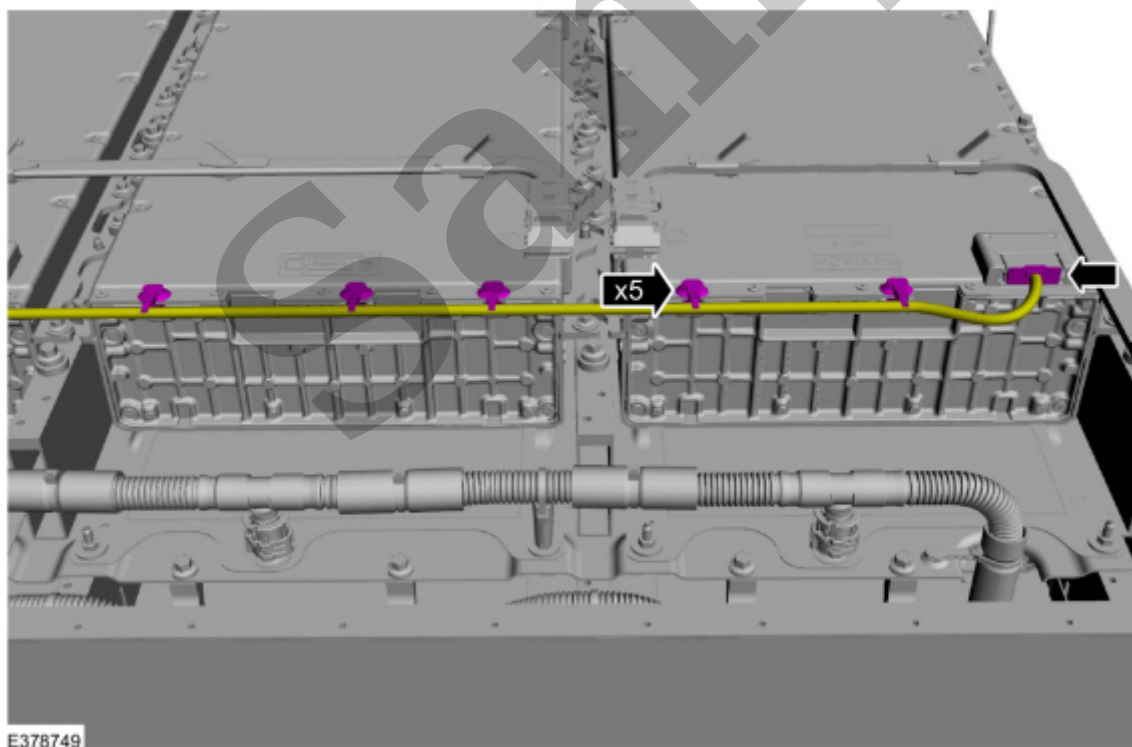
The BECM electrical connectors must be disconnected in the sequence shown or component damage may occur.

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



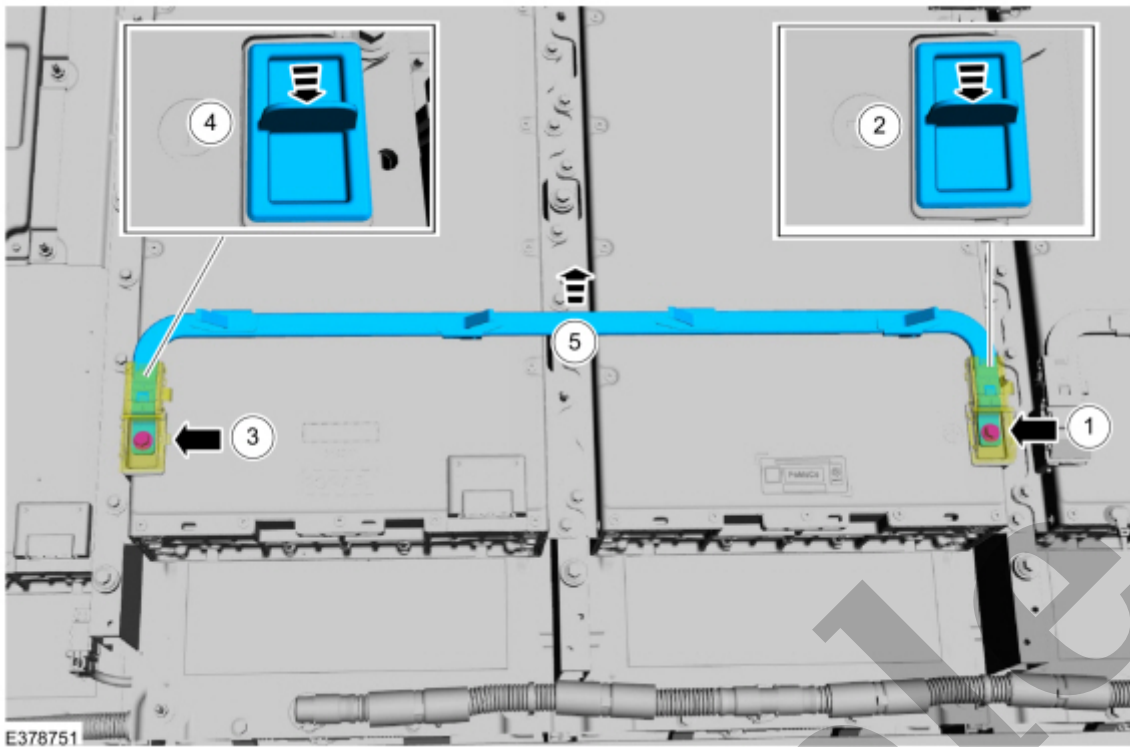
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8. Detach the retainers, disconnect the electrical connectors and position the wire harness aside.



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

9. Detach the retainers, disconnect the electrical connectors and position the wire harness aside.



[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.