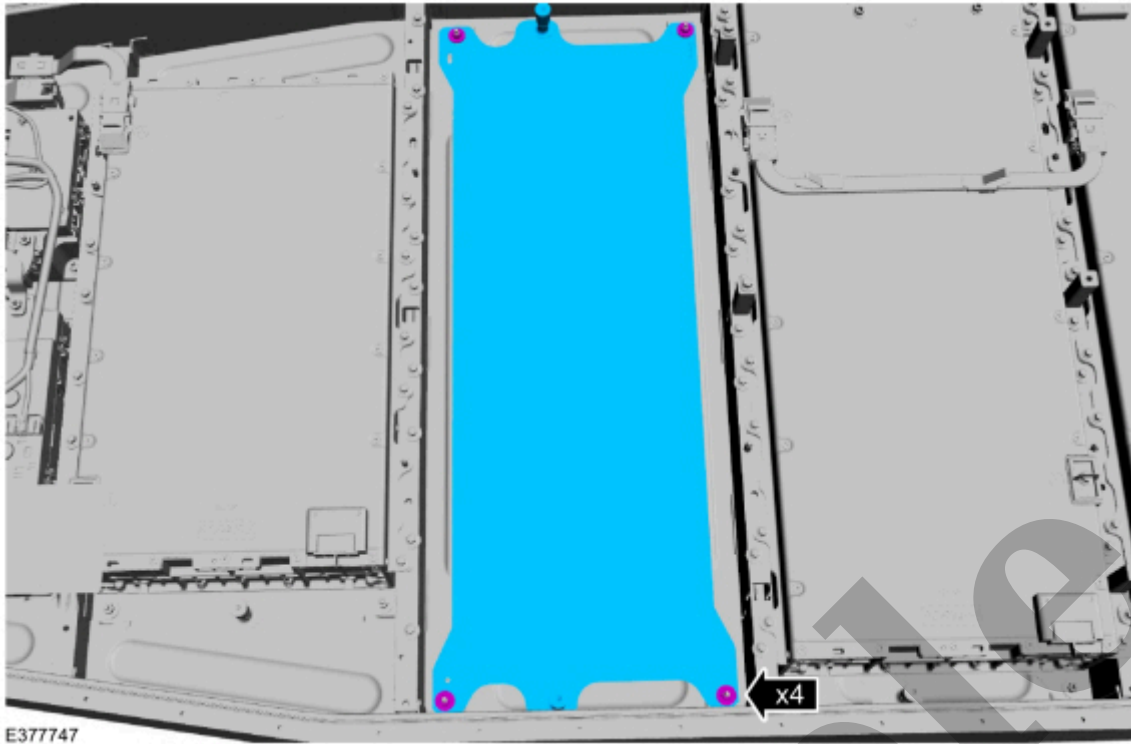


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## 2015 FORD Grand C-Max OEM Service and Repair Workshop Manual

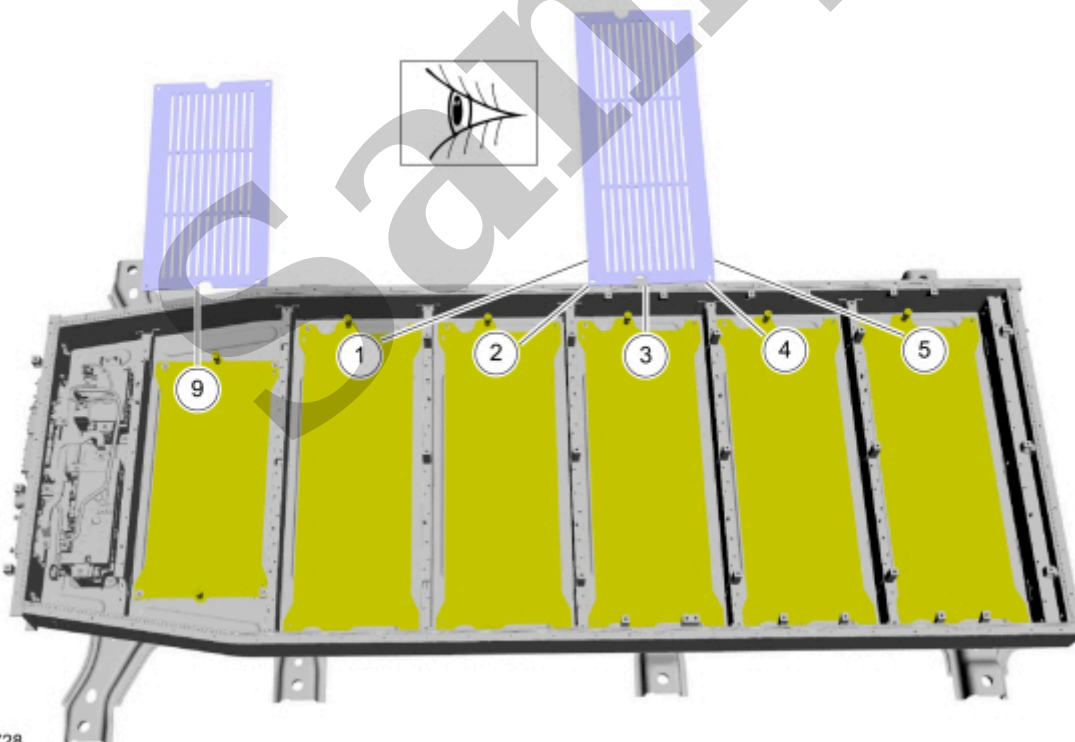
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5. Use the correct Thermal Interface Material (TIM) application template for the cold plate.



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Use a power caulk gun that applies the Thermal Interface Material (TIM) with less effort and a continuous bead.

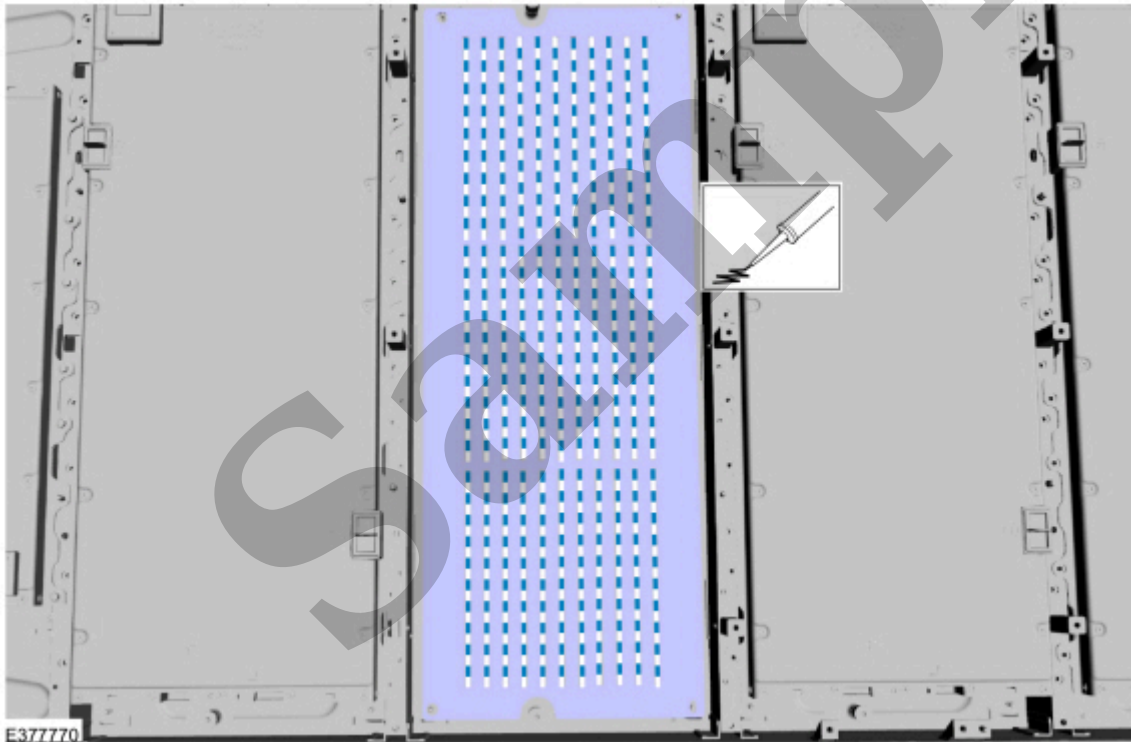
## NOTE

Prior to applying the mixing tip, activate the power caulk gun until both parts of the Thermal Interface Material (TIM) come out of the end and is evenly mixed. Discard the premix TIM. Install the mixing tip 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)



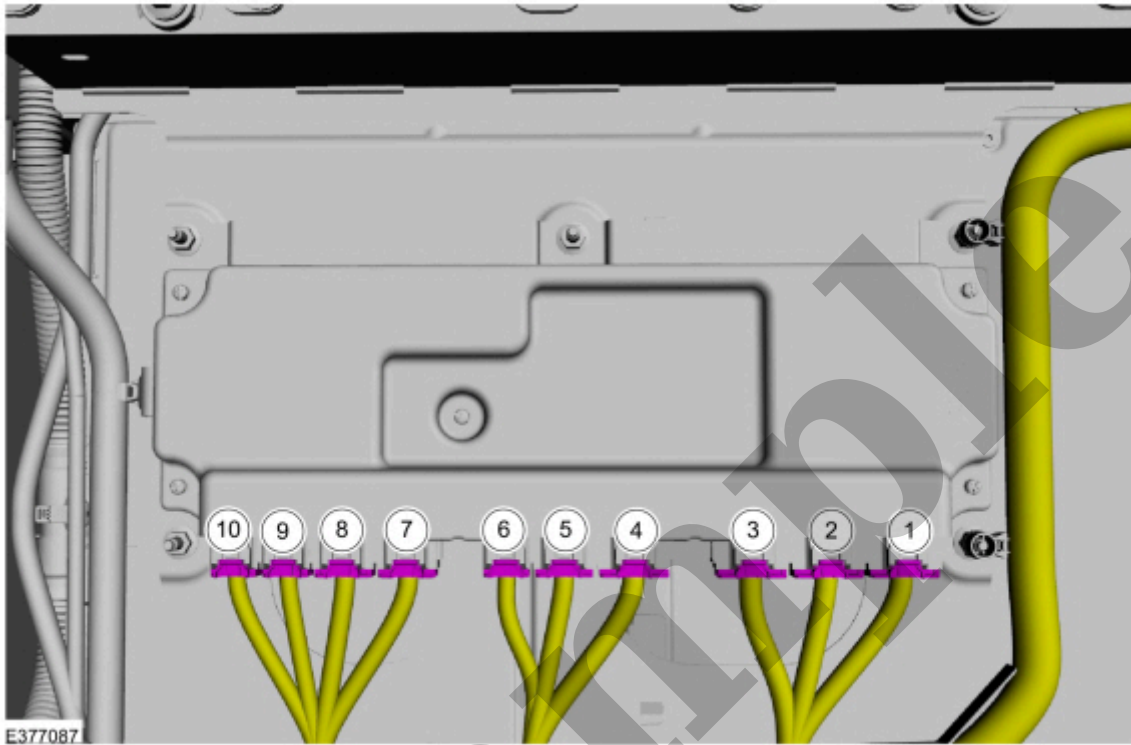
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8. Remove the excessive Thermal Interface Material (TIM) from the top of the template.

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.



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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).

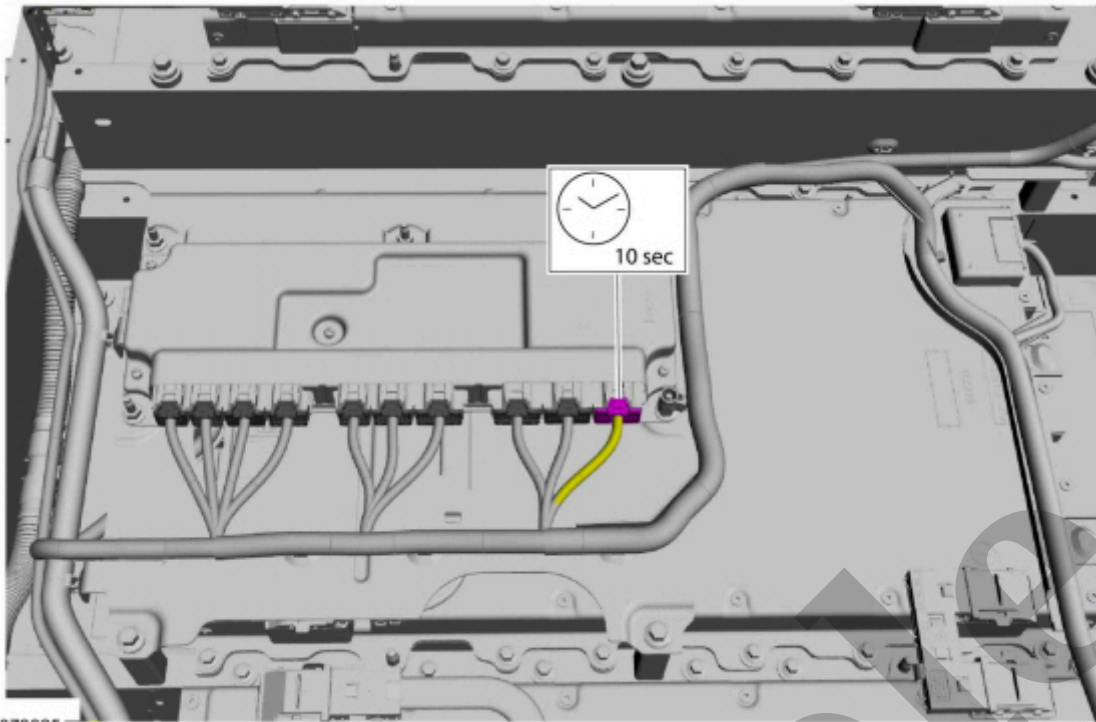
3. Remove the high voltage battery cover.

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.

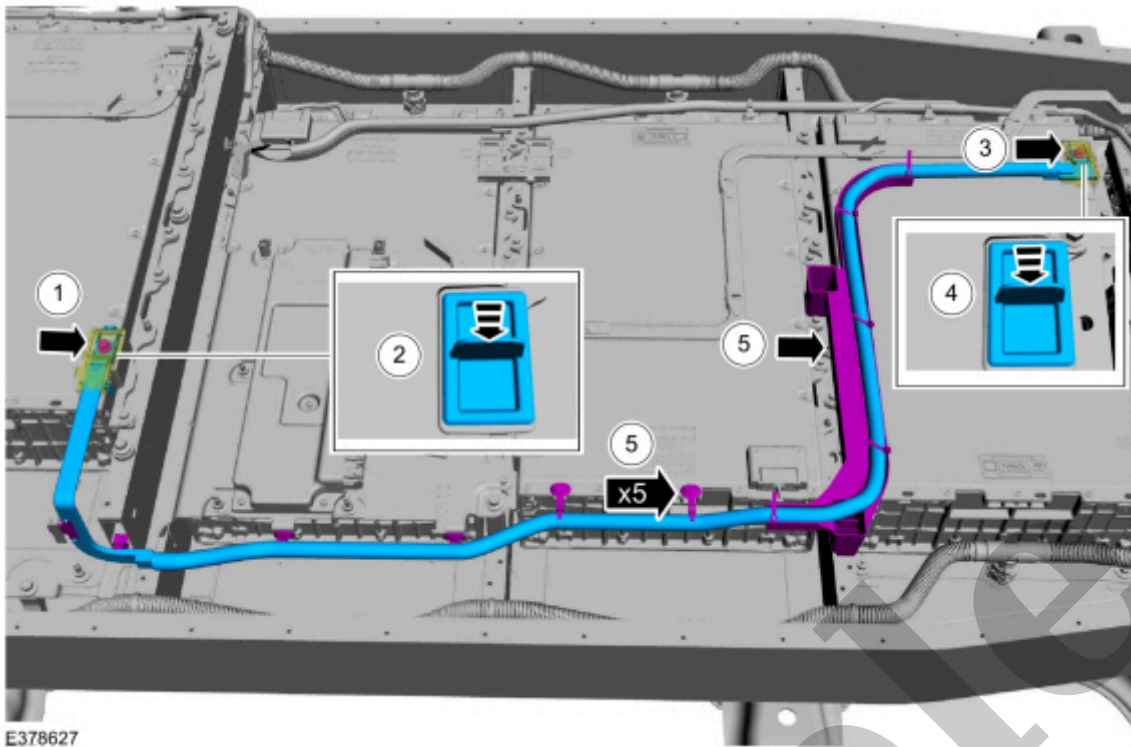


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#### 6. NOTICE

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. 1. Open the terminal cover and remove the bus bar nut.

**Torque** : 106 lb.in (12 Nm)

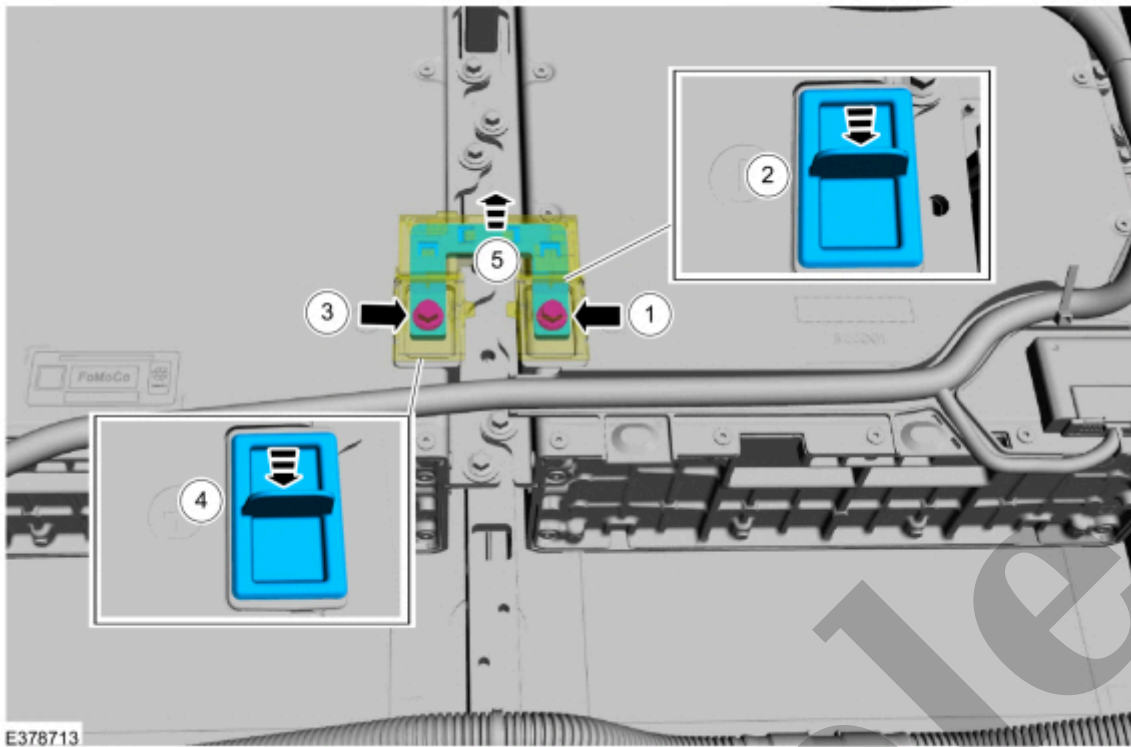
2. Open the terminal cover and remove the bus bar bolt.

**Torque** : 119 lb.in (13.5 Nm)

3. Install the battery module terminal cover.

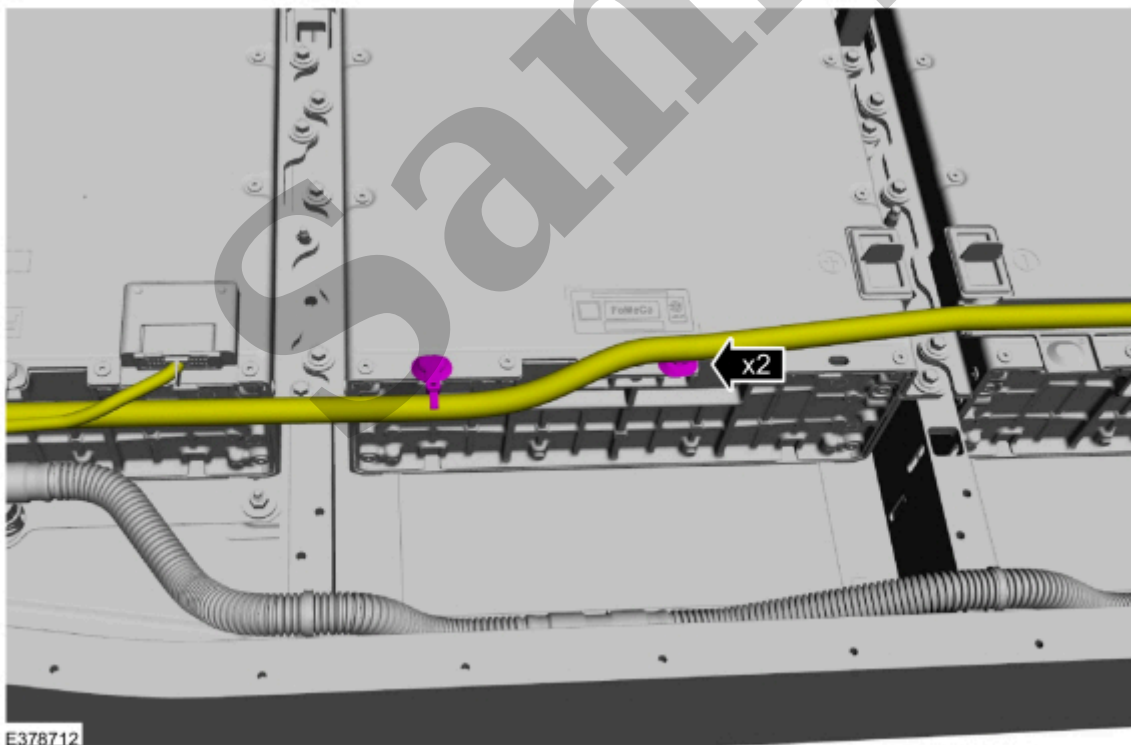
4. Remove the bus bar.





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10. Detach the retainers and position the wire harness aside.



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11. Disconnect the electrical connector and position the wire harness aside.

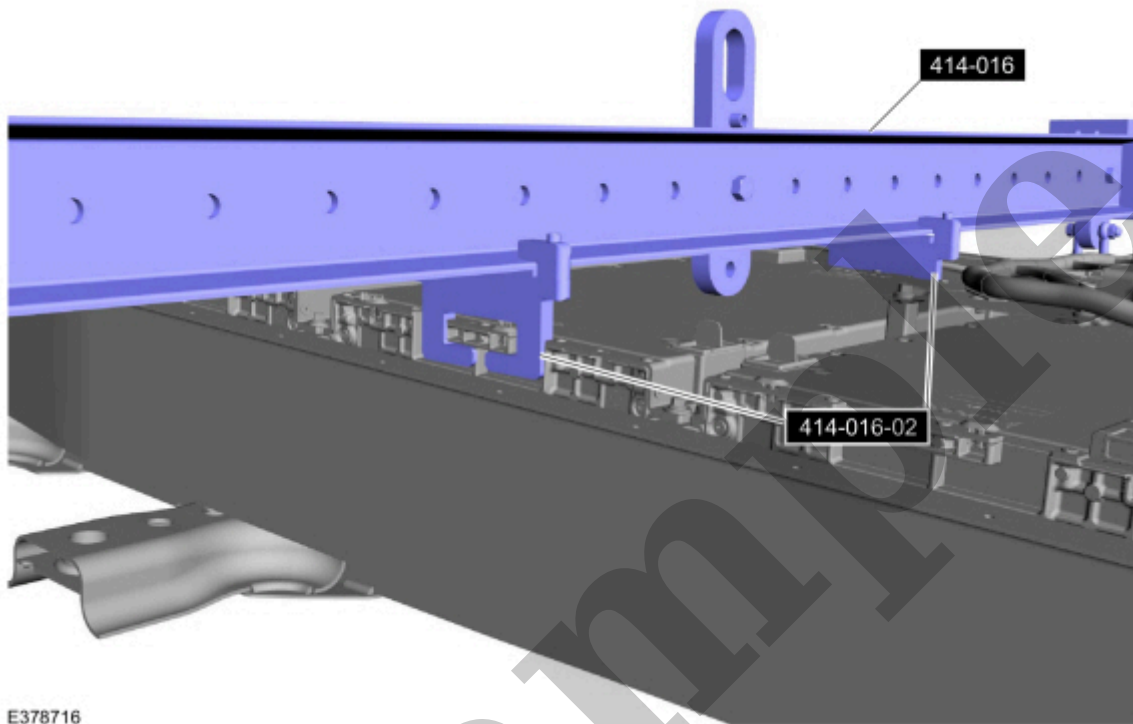


13. 1. Install the battery array lift adaptors.

**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

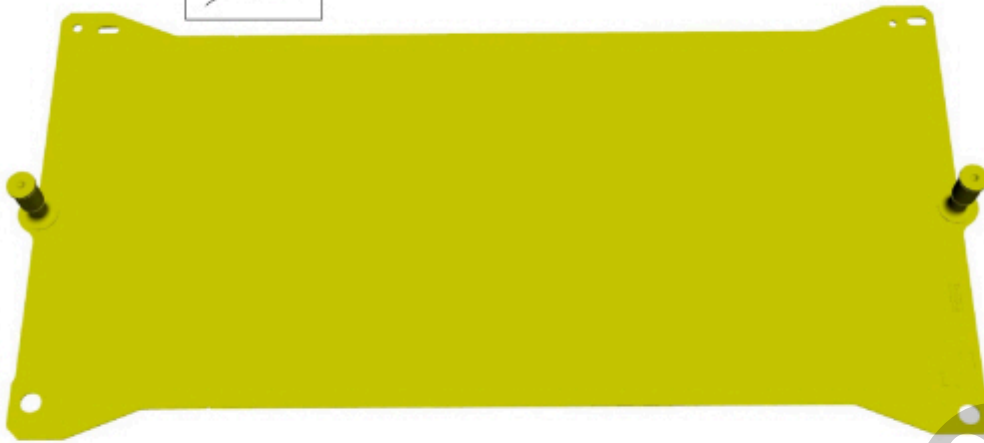


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14. • Remove the cold plate nuts.
- Using a floor crane. Remove the bolts, battery array and cold plate.

Use the General Equipment: Floor Crane

**Torque** : 133 lb.in (15 Nm)



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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)