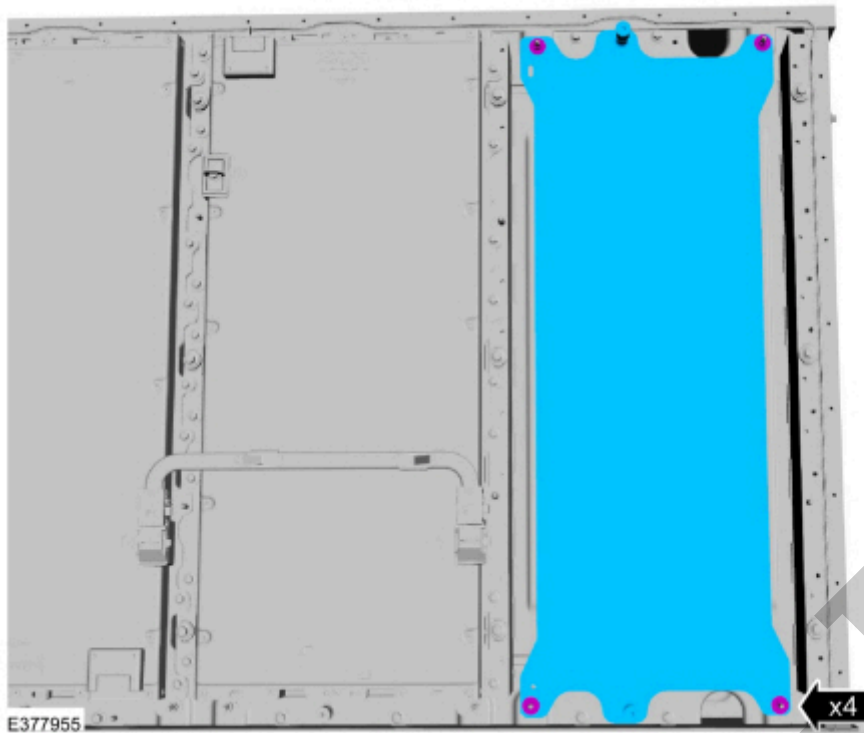


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## 2004 FORD Fusion European OEM Service and Repair Workshop Manual

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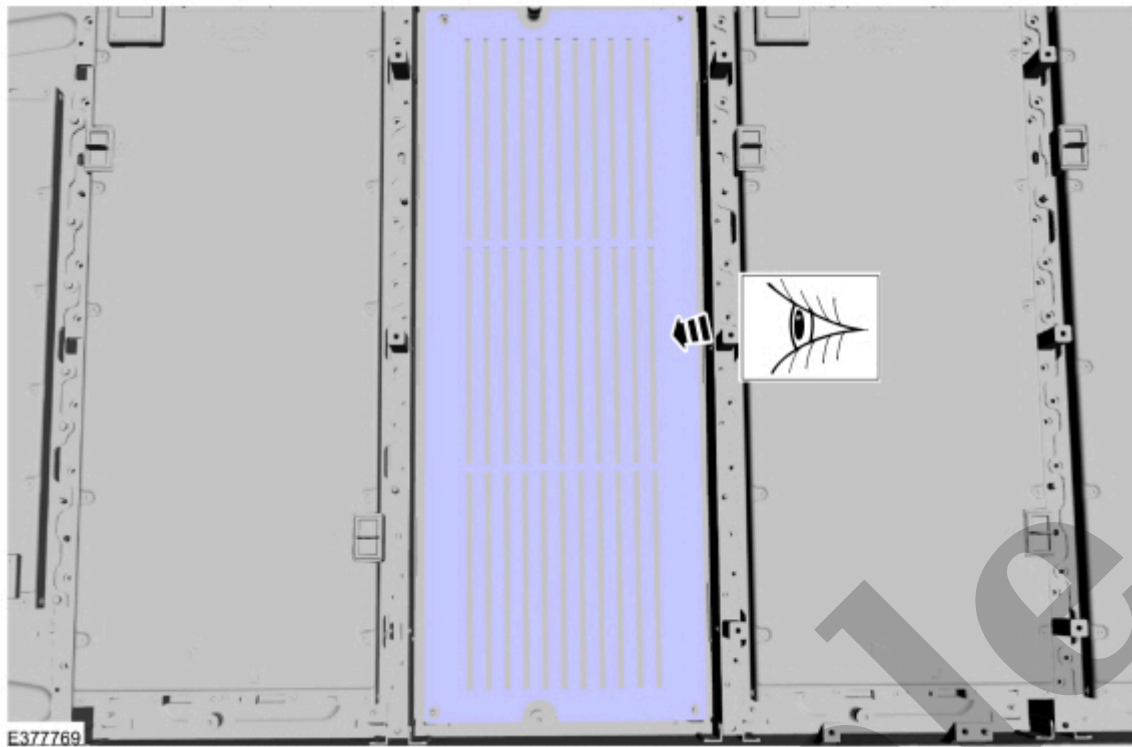


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5. **NOTE**

Make sure the correct application template is used and is properly orientated.

Extended range high voltage battery



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7. **NOTE**

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

**NOTE**

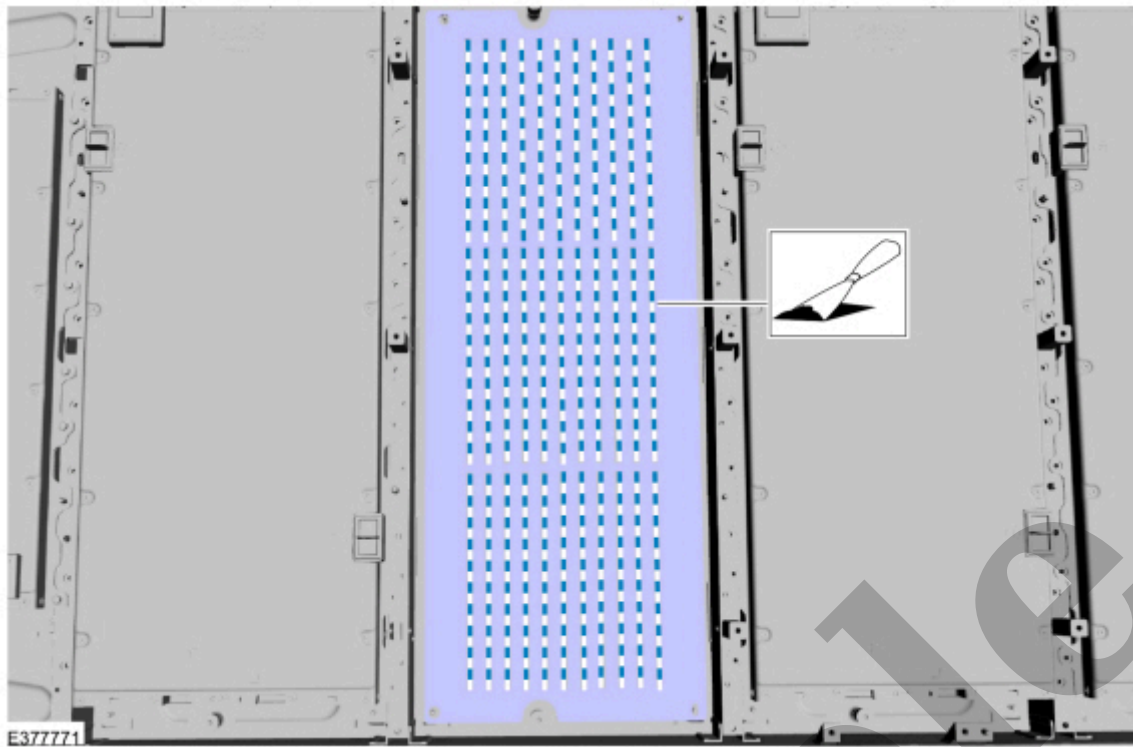
The use of two 200 mL (6.7 oz) of Thermal Interface Material (TIM) cartridges are necessary when replacing a single high voltage battery module.

**NOTE**

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

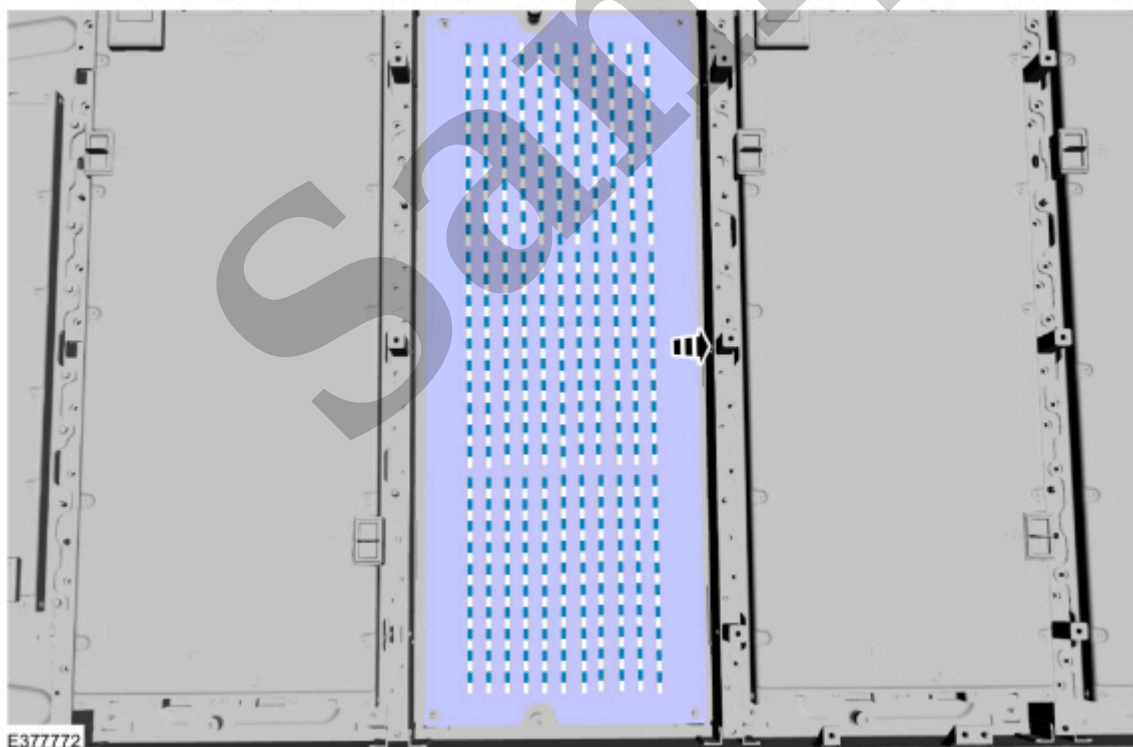
**NOTE**

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



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



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## Sixth Row Upper High Voltage Battery Module - Electric, Vehicles With: Standard Range Battery

<i>414-03A High Voltage Battery, Mounting and Cables</i>	<i>2022 F-150</i>
<i>Removal and Installation</i>	<i>Procedure revision date: 04/23/2022</i>

### Sixth Row Upper High Voltage Battery Module - Electric, Vehicles With: Standard Range Battery

#### Removal

##### WARNING

To prevent the risk of high-voltage shock, always follow precisely all warnings and service instructions including instructions to depower the system. The high-voltage system utilizes high-voltage cables to its components and modules. The high-voltage cables and wiring are identified by orange harness tape or orange wire covering. All high-voltage components are marked with high-voltage warning labels with a high-voltage symbol. Failure to follow these instructions may result in serious personal injury or death.

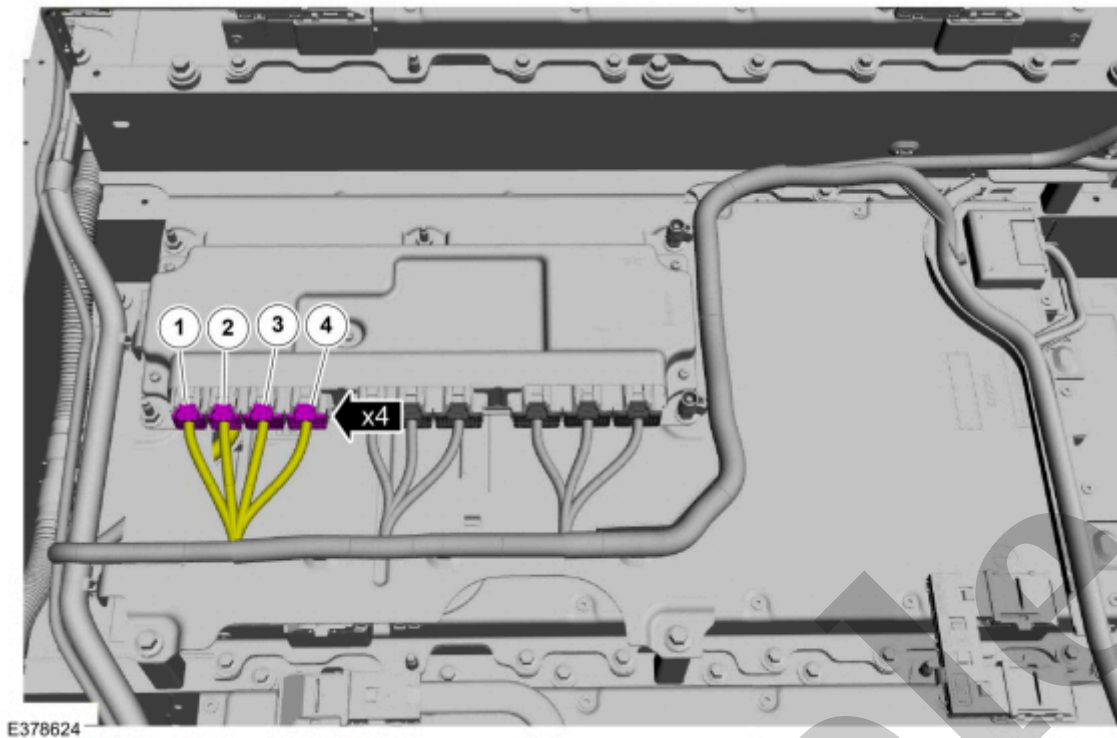
##### WARNING

The following step prescribes critical instructions. Perform the protective cap opening and closing sequence exactly as directed. Failure to follow these instructions may result in serious personal injury or death.

##### NOTICE

The high voltage battery module must be placed on a smooth, flat, padded surface, except when installing on the cold plate or component damage may occur.

##### NOTE

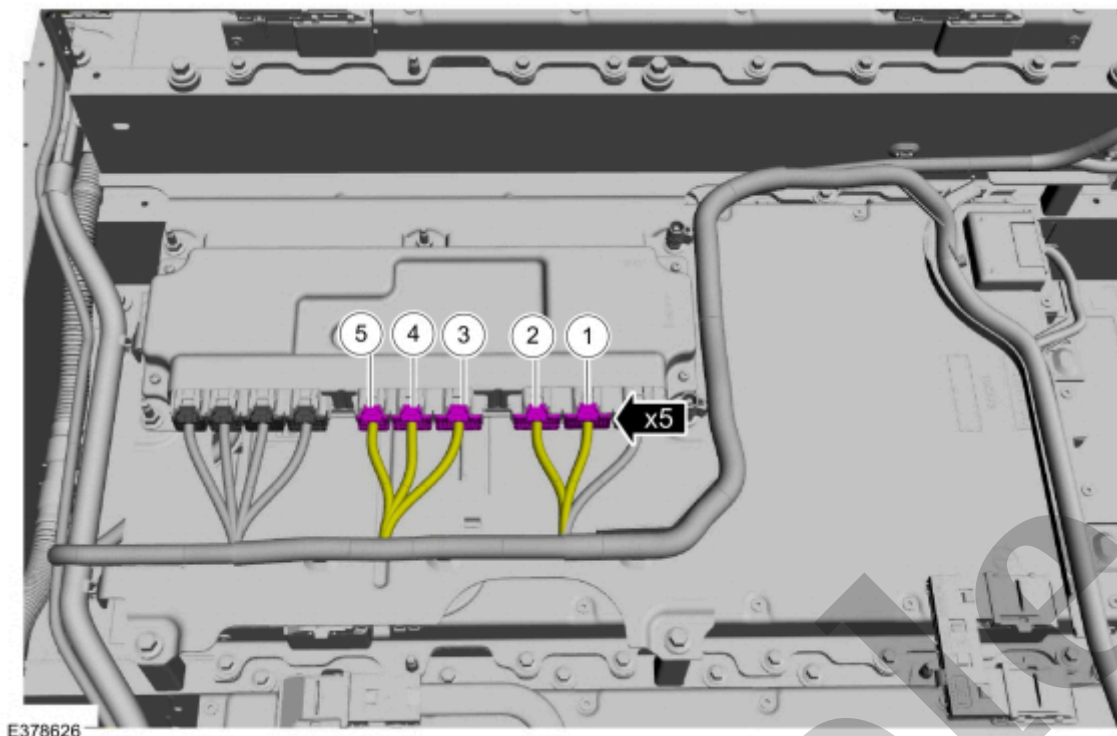


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#### 5. NOTICE

Wait 10 seconds after disconnecting the BECM electrical connector shown, before disconnecting the remaining electrical connectors or component damage may occur.

Disconnect the BECM (battery energy control module) electrical connector.



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7. 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.

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

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

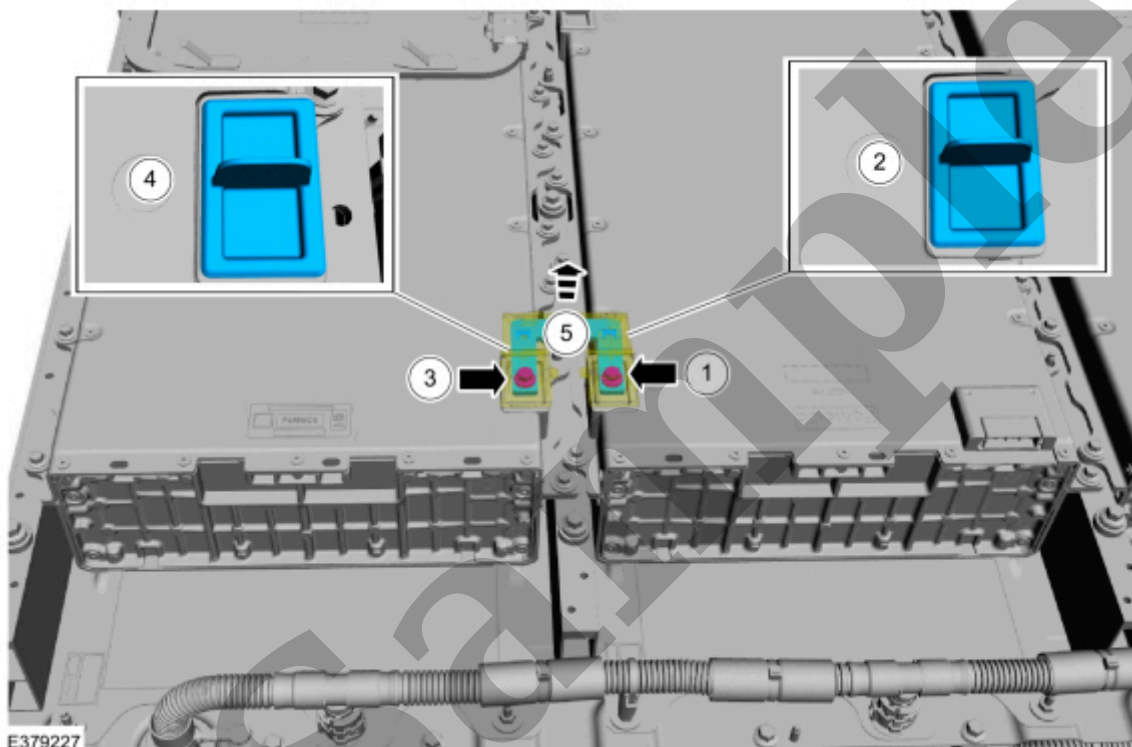
2. Install the battery module terminal cover.

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. Remove the bus bar.



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10. 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. Detach the retainer and position the bus bar aside.

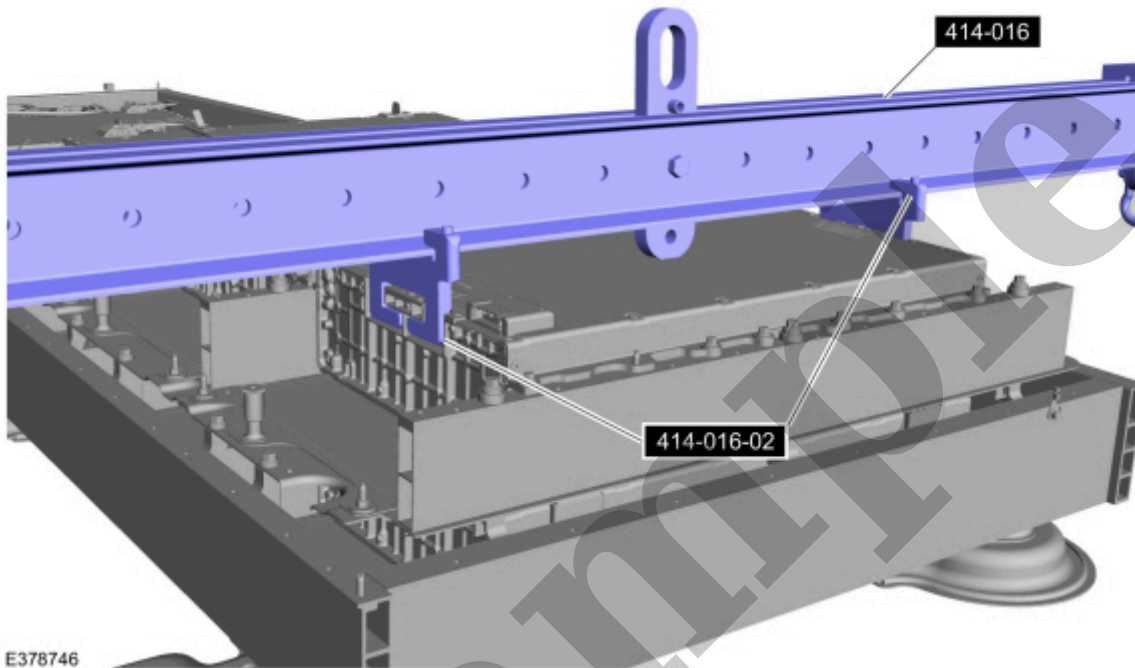


12. 1. Install the battery array lift adaptors.

**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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13. • Remove the cold plate nuts.
- Using a floor crane, remove the bolts and the battery array number six assembly.

**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)