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## 2010 FORD Ka OEM Service and Repair Workshop Manual

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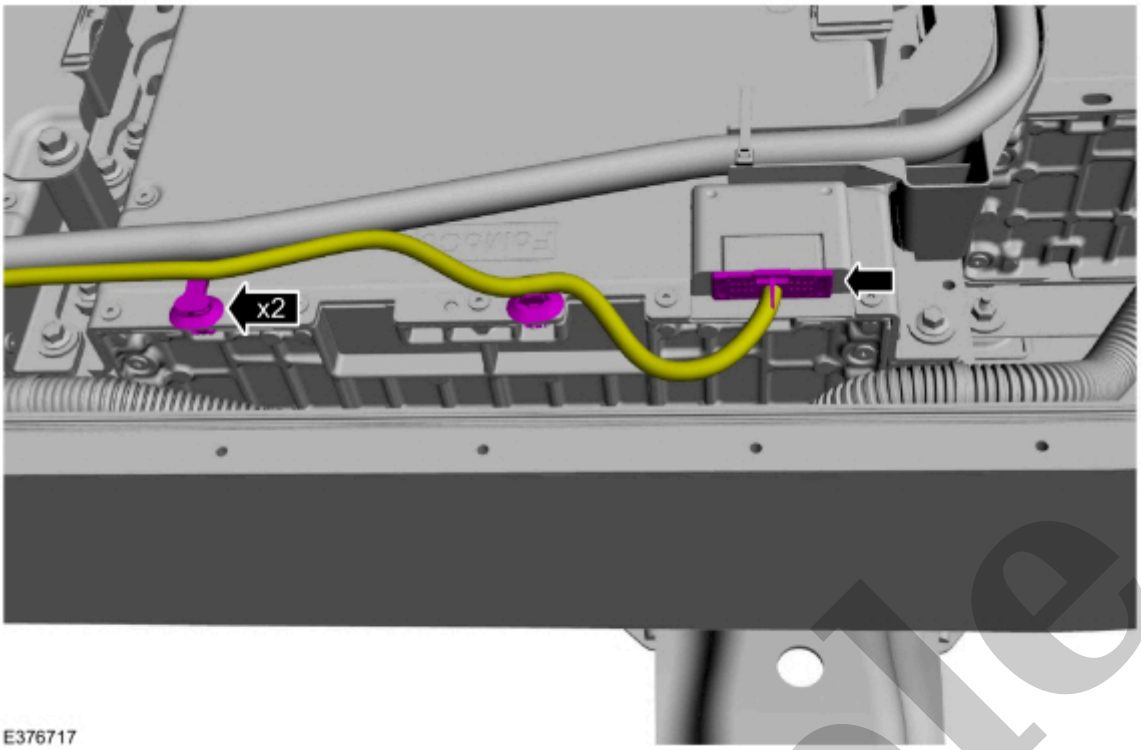
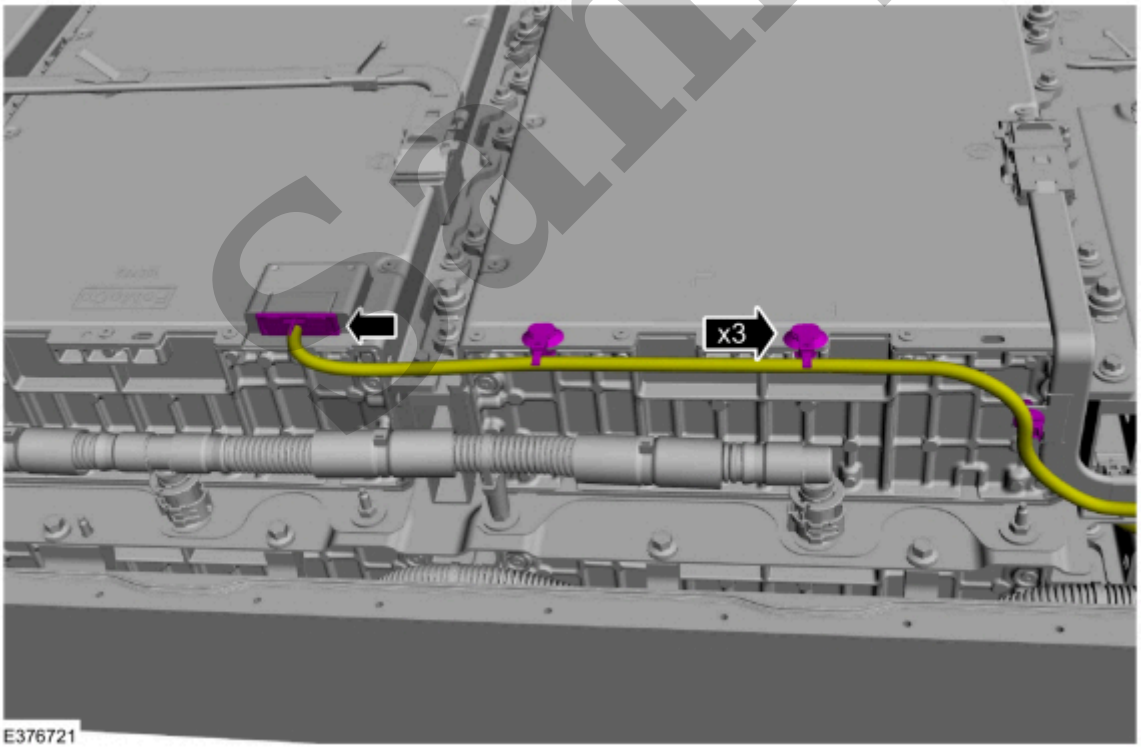



Click here to learn about symbols, color coding, and icons used in this manual.

11. Disconnect the electrical connector, detach the retainers and position the wire harness aside.

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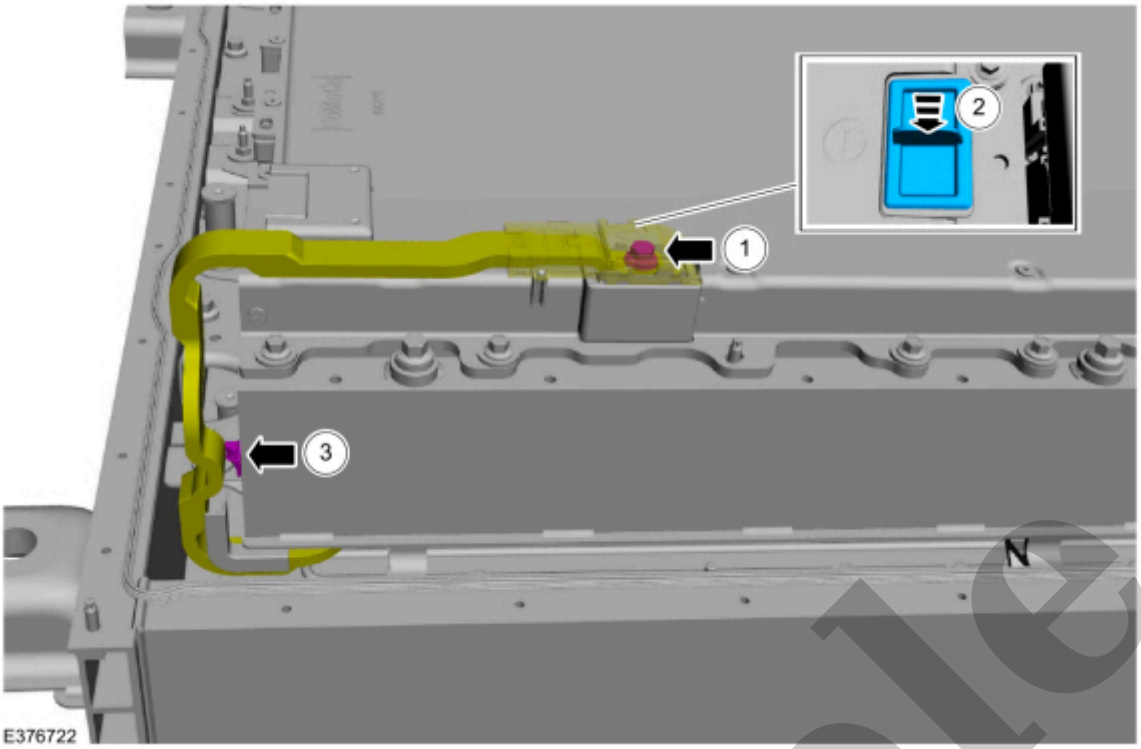


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14. 1. Open the terminal cover and remove the bus bar bolt.

    ***Torque*** : 115 lb.in (13 Nm)

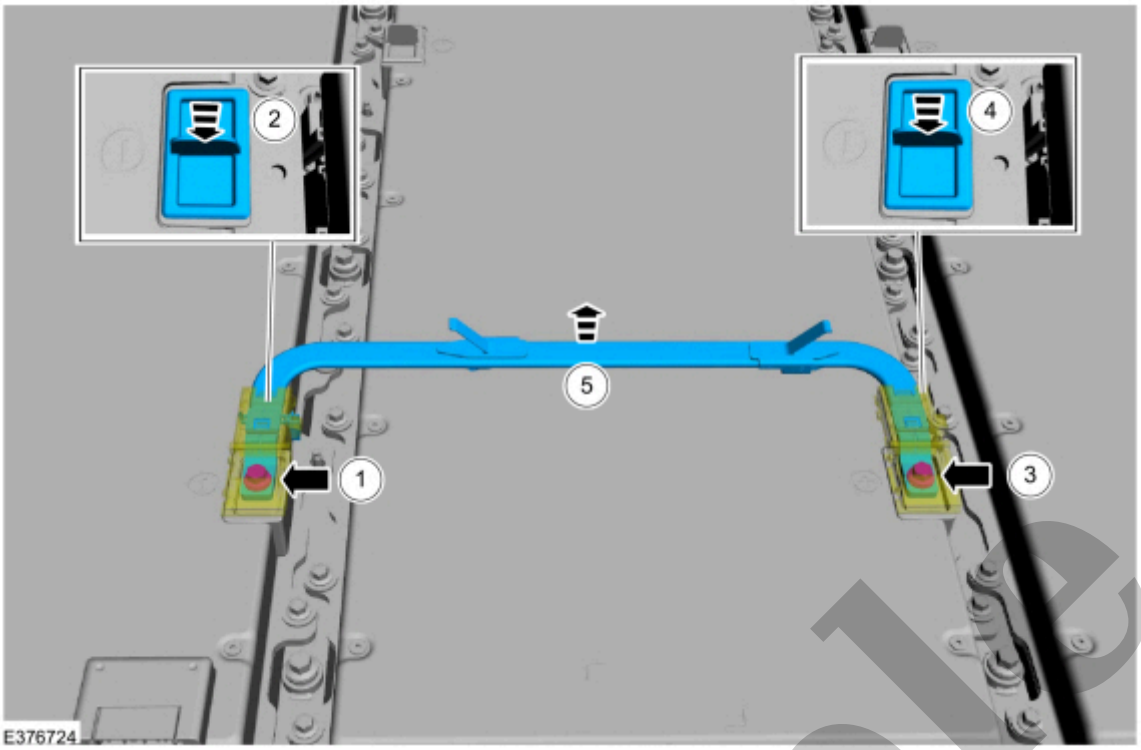
    2. Install the battery module terminal cover.

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

    ***Torque*** : 115 lb.in (13 Nm)

    4. Install the battery module terminal cover.

    5. Remove the bus bar.

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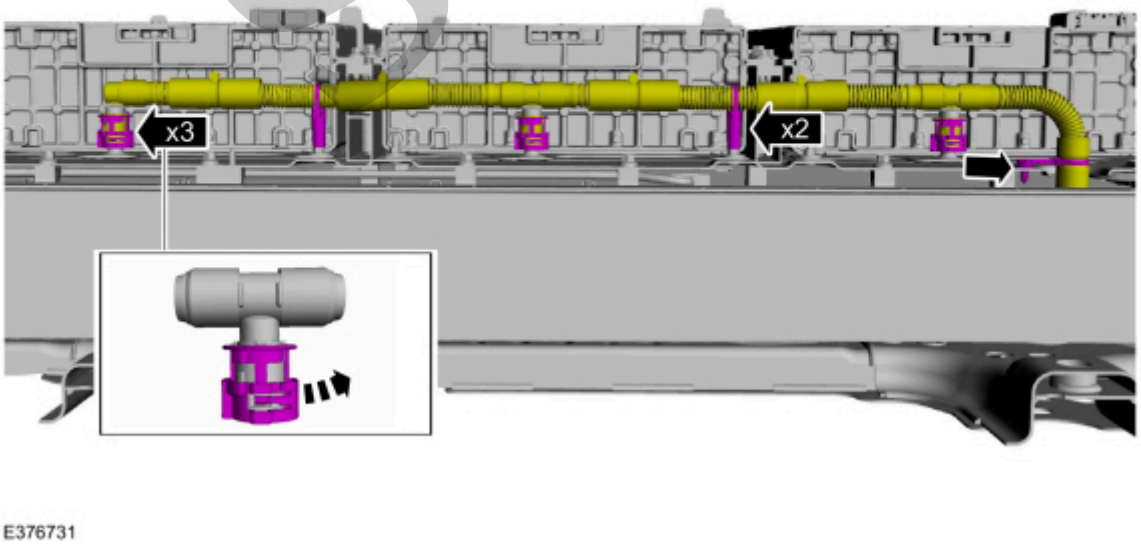
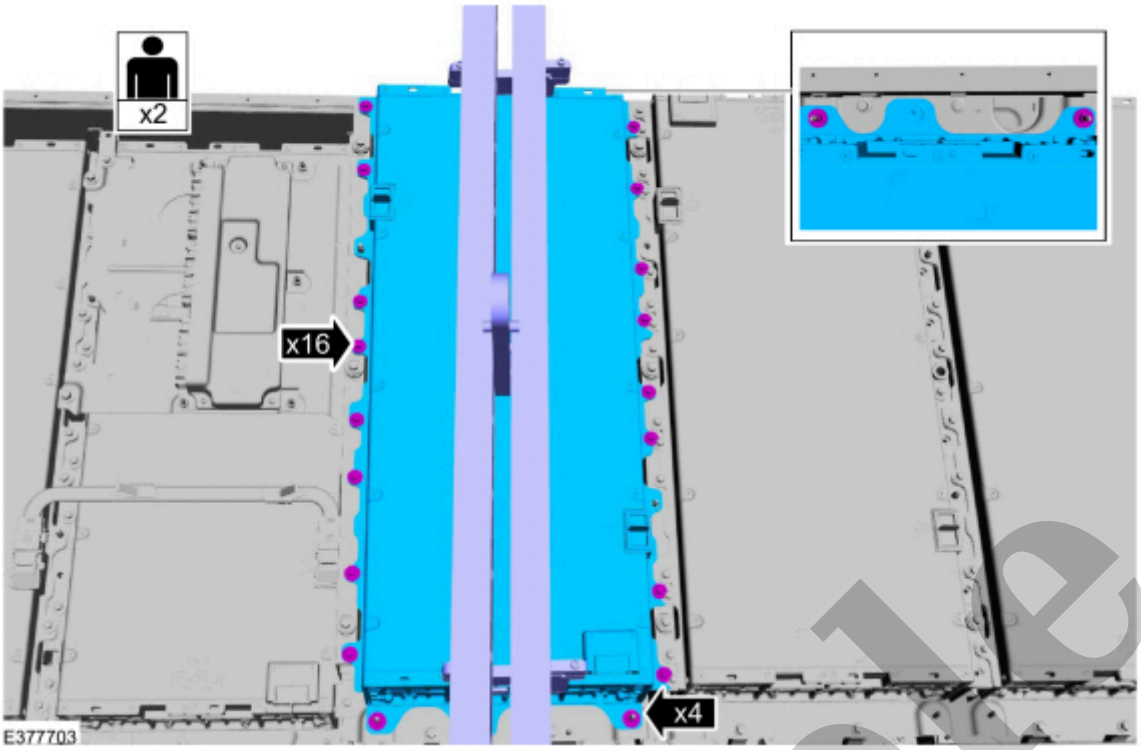
16. On both sides.

    Release the cooling hose connectors from the cooling plates, detach the retainers and position the hose aside.



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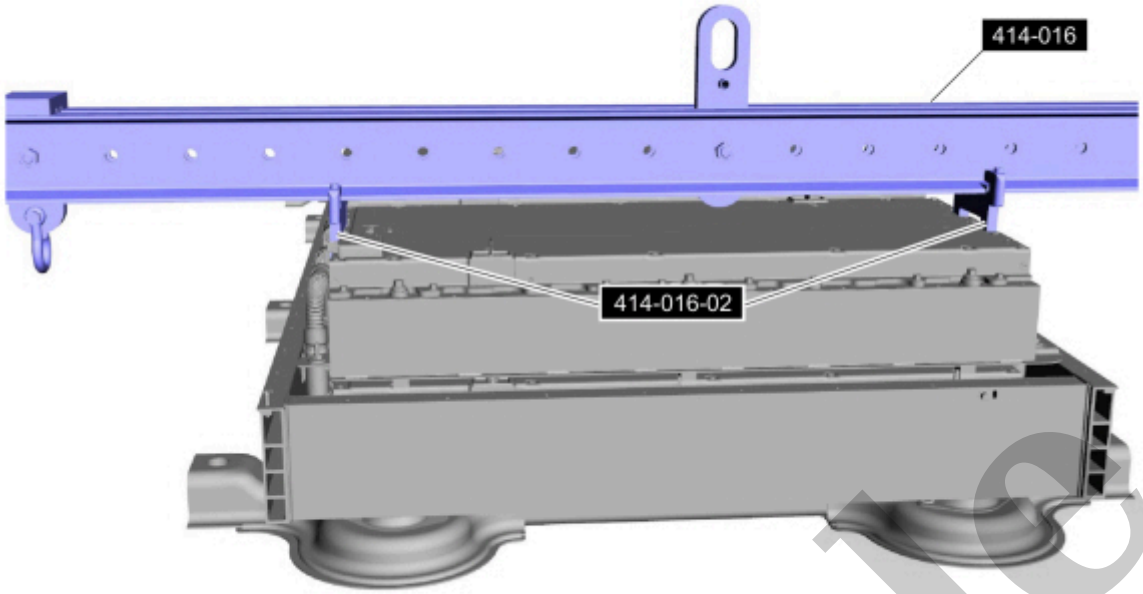
19. Mark the battery location for installation if not being replaced.

    1. Remove the cold plate nuts.

       ***Torque*** : 80 lb.in (9 Nm)

    2. Using a floor crane, remove the bolts and the battery array number seven assembly.

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

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21. Mark the battery location for installation if not being replaced.

    1. Remove the cold plate nuts.

       ***Torque*** : 80 lb.in (9 Nm)

    2. Using a floor crane, remove the bolts and the battery array number seven assembly.

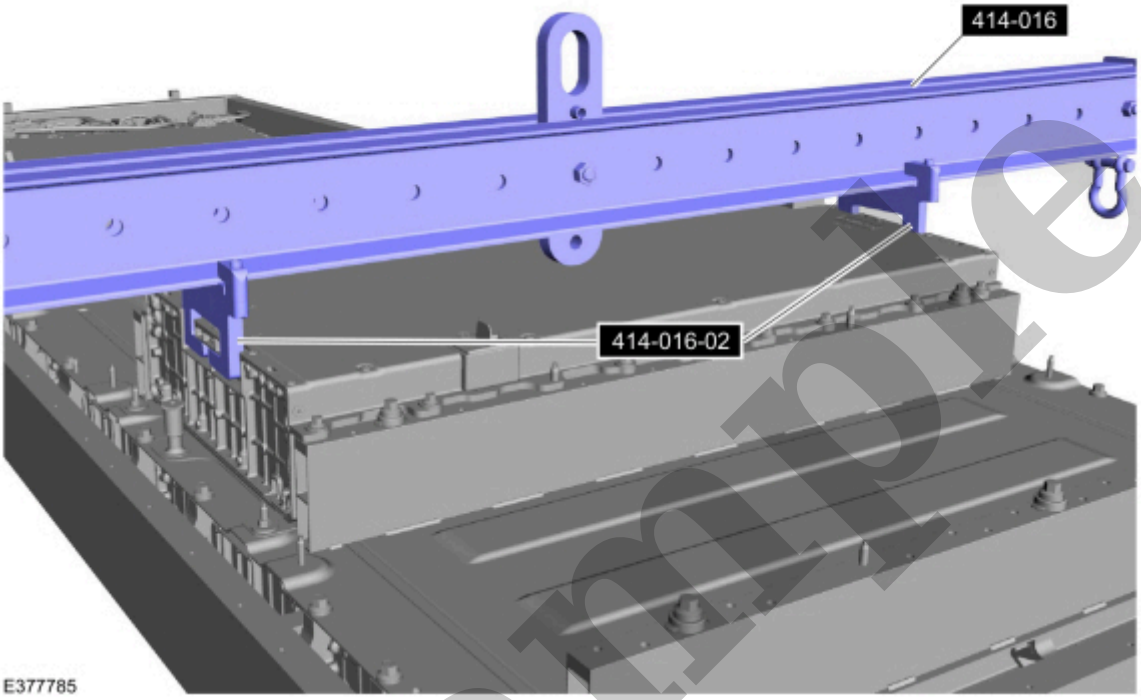
       ***Torque*** : 133 lb.in (15 Nm)

23. 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

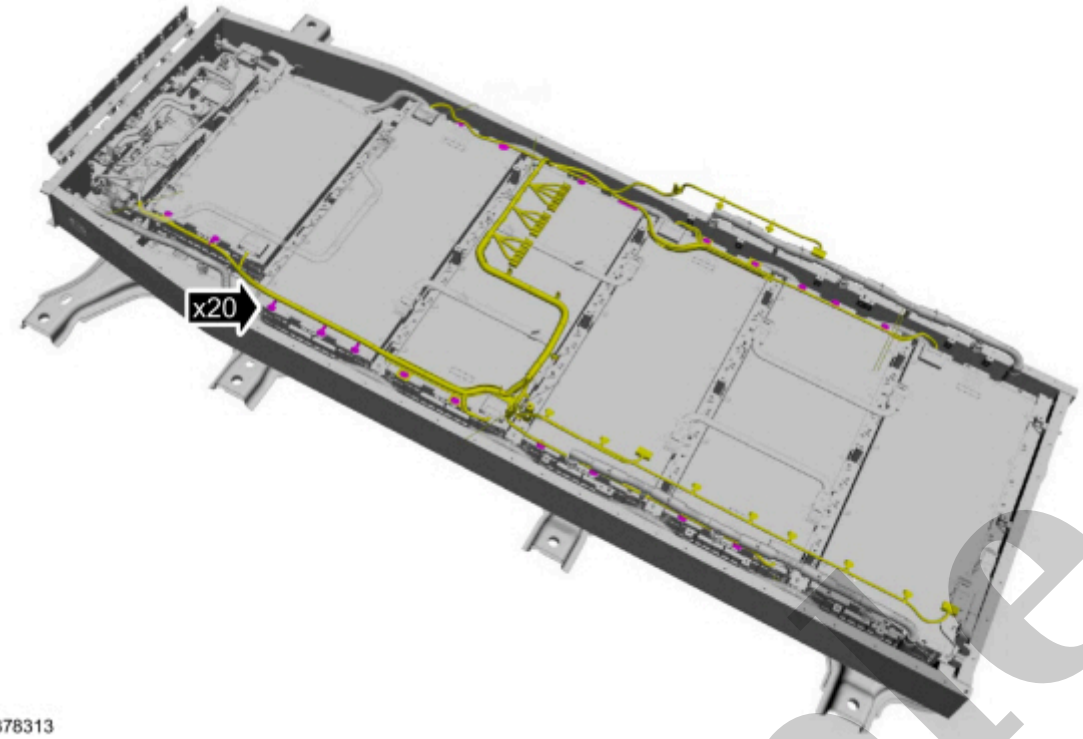





24. Remove the bolts, the mid plate tray and battery.

Use the General Equipment: Floor Crane

***Torque*** : 150 lb.in (17 Nm)

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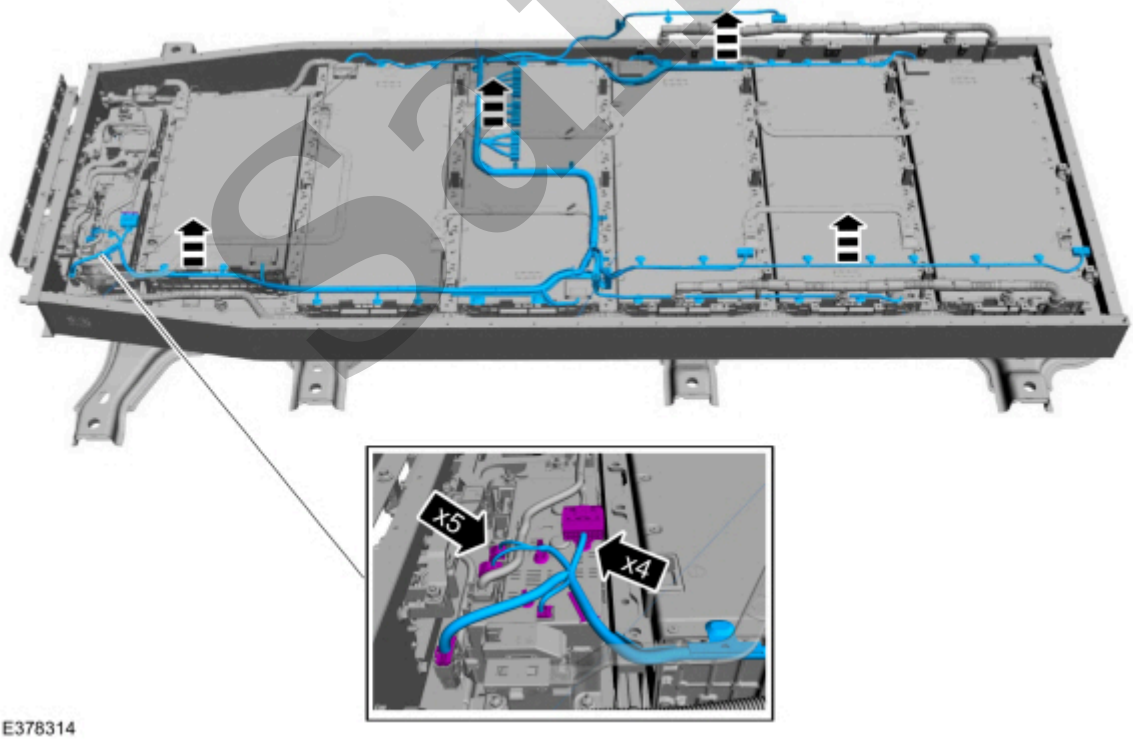
27. Disconnect the electrical connectors and detach the wire harness retainers. Remove the HVB (High Voltage Battery) wiring harness.

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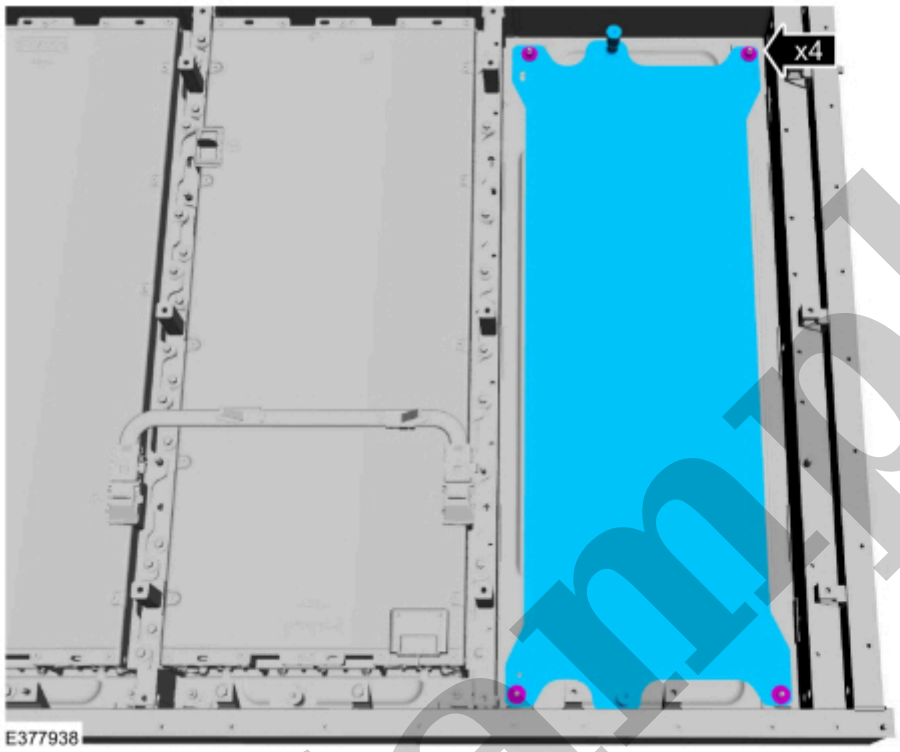
4. **NOTICE**

   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)

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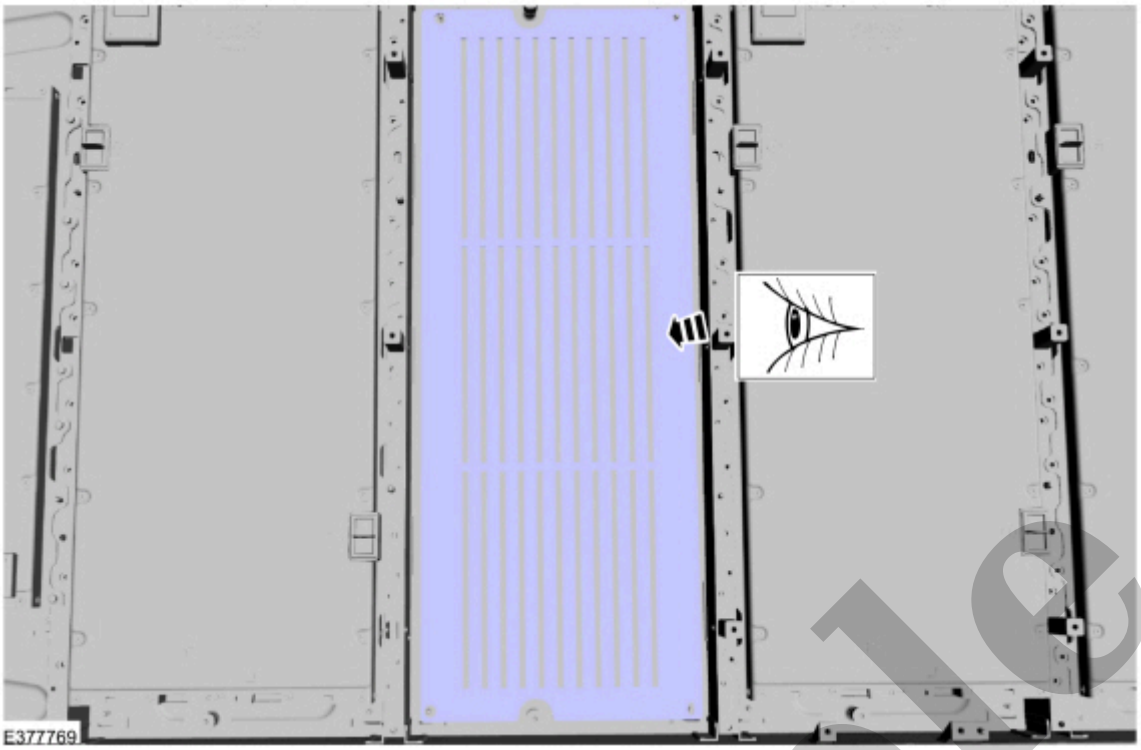
5. Use the correct Thermal Interface Material (TIM) application template for the cold plate.

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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 pair of high voltage battery modules.

   **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