

# Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

## 1998 FORD Maverick SWB OEM Service and Repair Workshop Manual

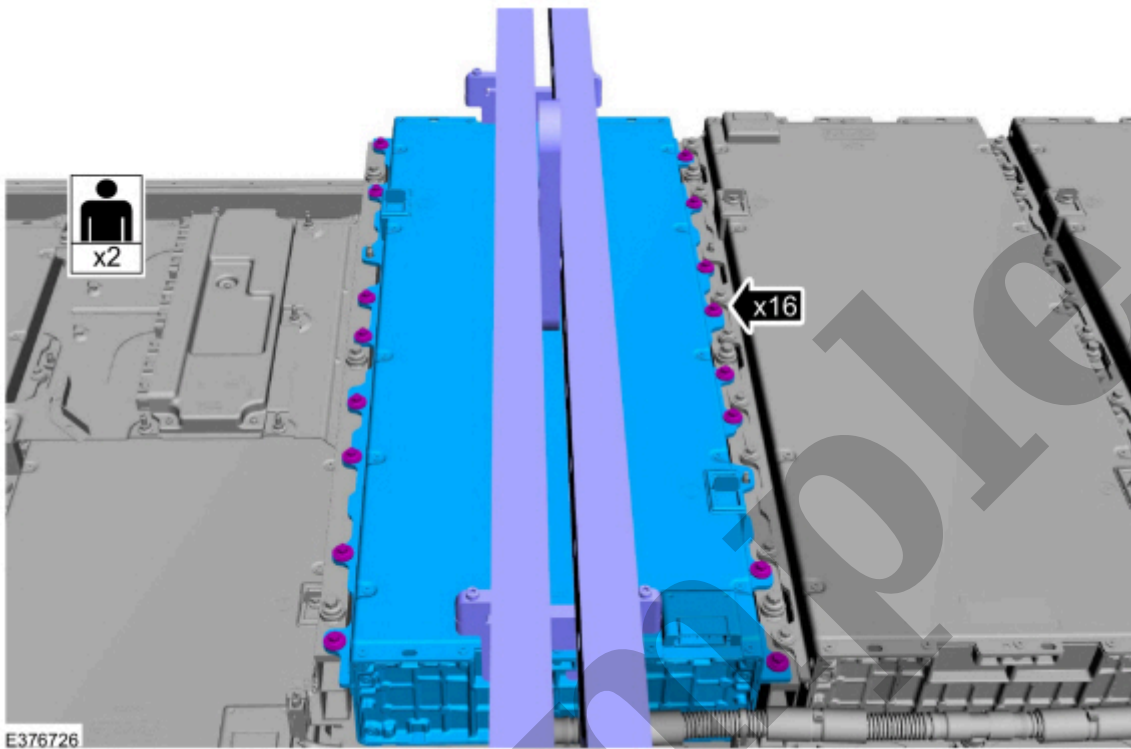
[Go to manual page](#)

58. Follow steps 72 through 75 for Thermal Interface Material (TIM) application to the cold plate.

59. Using a floor crane, install the battery array number eight and bolts.

Use the General Equipment: Floor Crane

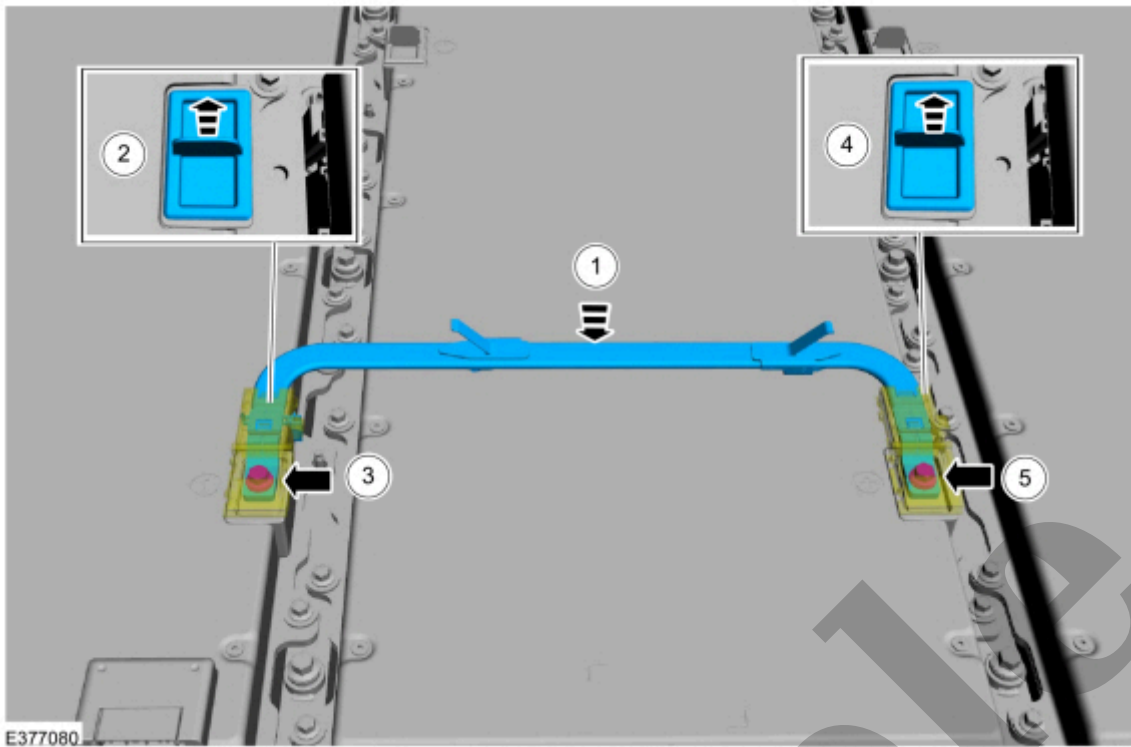
**Torque** : 133 lb.in (15 Nm)



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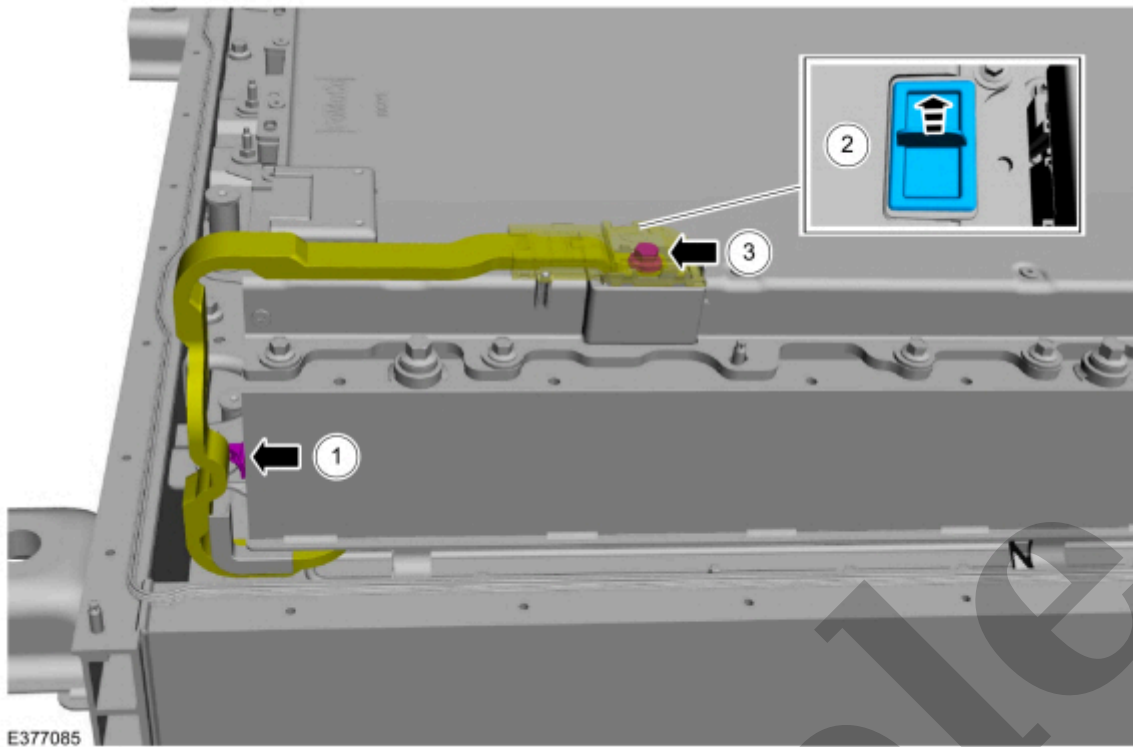
60. 1. Remove the battery array lift adaptors and the battery lift fixture.

**Use Special Service Tool** : 414-016-02 Adapter for 414-016 , 414-016 Battery Lift Fixture



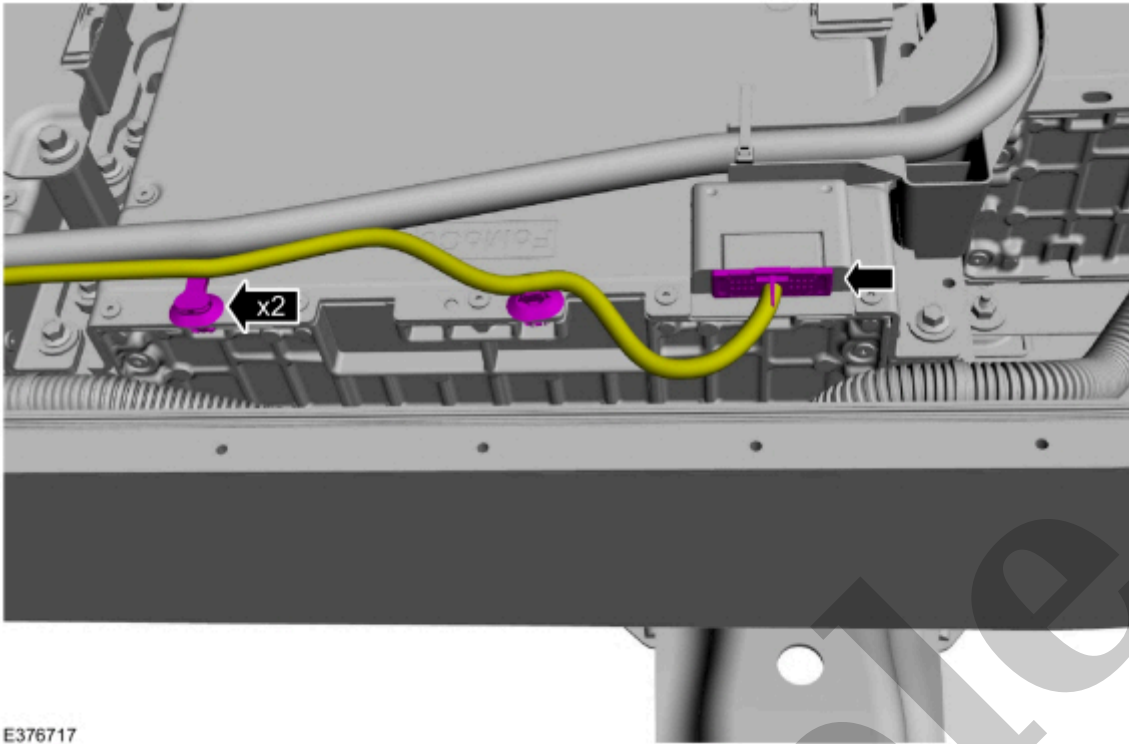
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62. 1. Install the bus bar.
2. Remove the battery module terminal cover.
3. Connect the bus bar and install the bolt, close the terminal cover.  
**Torque** : 119 lb.in (13.5 Nm)
4. Remove the battery module terminal cover.
5. Connect the bus bar and install the bolt, close the terminal cover.  
**Torque** : 119 lb.in (13.5 Nm)



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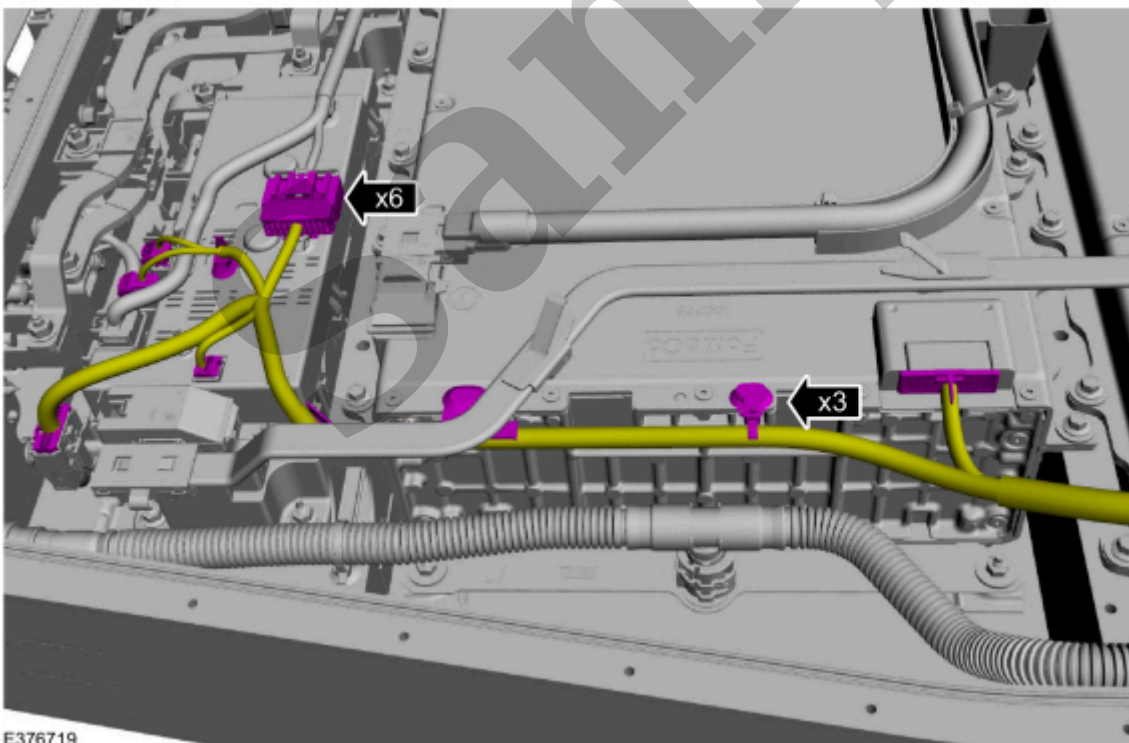
64. 1. Install the bus bar attach the retainers and channel.
2. Remove the battery module terminal cover.
3. Connect the bus bar and install the bolt, close the terminal cover.  
***Torque*** : 119 lb.in (13.5 Nm)
4. Remove the battery module terminal cover.
5. Connect the bus bar and install the bolt, close the terminal cover.  
***Torque*** : 119 lb.in (13.5 Nm)



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67. Position back the wire harness, connect the electrical connectors and pin-type retainers.



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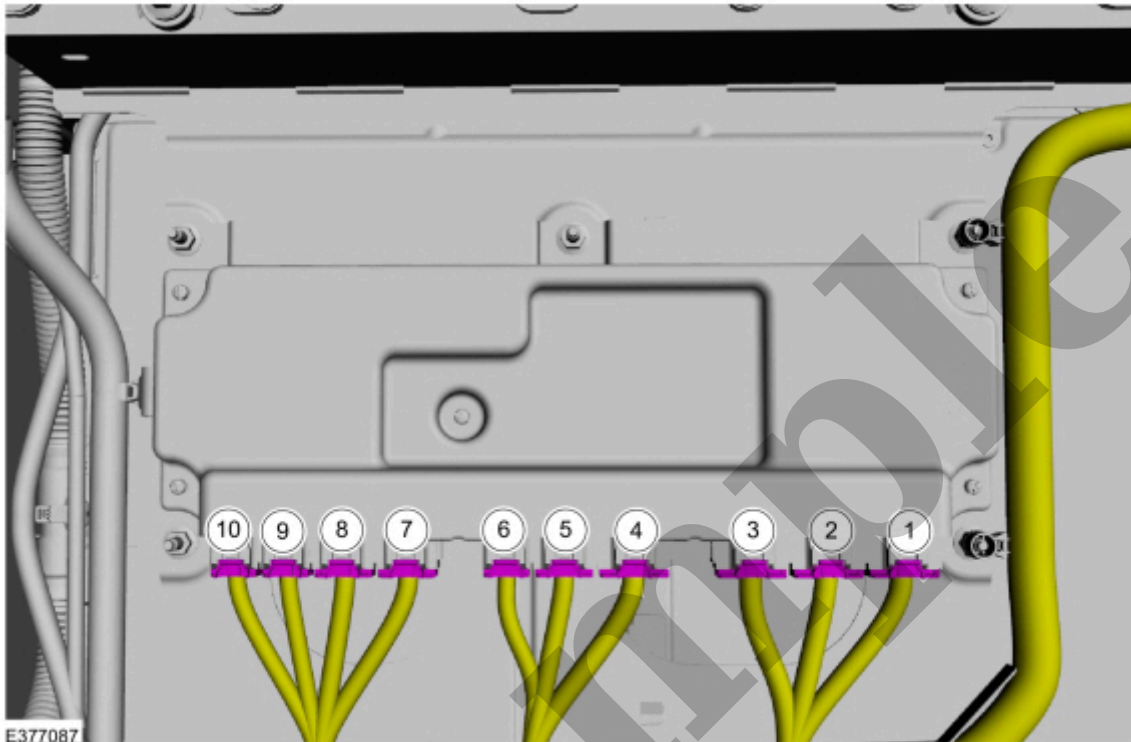
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68. Position back the wire harness, connect the electrical connectors and pin-type retainers.

70. **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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71. **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).

High voltage traction battery packs are typically discharged from an internal combustion engine crank no start symptom or long-term vehicle storage procedures were not followed.

## NOTE

The high voltage rescue charger will NOT charge the high voltage battery if the following BECM (battery energy control module) PID (parameter identification) are not within the specified range.

- HEV\_BAT\_VAR\_V PID (parameter identification) is less than 2.5V
- HEVBAT\_MIN\_V PID (parameter identification) is greater than 1.45V
- HVBAT\_V PID (parameter identification) is between 114V and 210V
- H\_BATT\_TEMP PID (parameter identification) is between 0°C and 40°C

### 1. Depower the high voltage battery.

Refer to: [High Voltage System De-energizing - Full Hybrid Electric Vehicle \(FHEV\)](#)(414-03A High Voltage Battery, Mounting and Cables, General Procedures).

### 2. Raise the vehicle on a hoist.

Refer to: [Jacking and Lifting - Overview](#)(100-02 Jacking and Lifting, Description and Operation).

### 3. If necessary, remove components to access the high voltage battery electrical connectors.

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

### 4. Connect high voltage battery charger into an appropriate wall outlet and turn on the high voltage battery rescue charger.

### 5. NOTE

The high voltage battery rescue charger connects directly to the low voltage connector C4238 and high voltage connector C4236D located on the high voltage battery.

Select the appropriate user Log-in and follow On-Screen prompts to identify vehicle, make cable connections and rescue charge the high voltage battery.

### 6. NOTE

## High Voltage Battery Handling - Electric

<b>414-03A High Voltage Battery, Mounting and Cables</b>	<b>2022 F-150</b>
<b>General Procedures</b>	<b>Procedure revision date: 07/28/2022</b>

### High Voltage Battery Handling - Electric

#### Configuration

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

#### 2. General Equipment

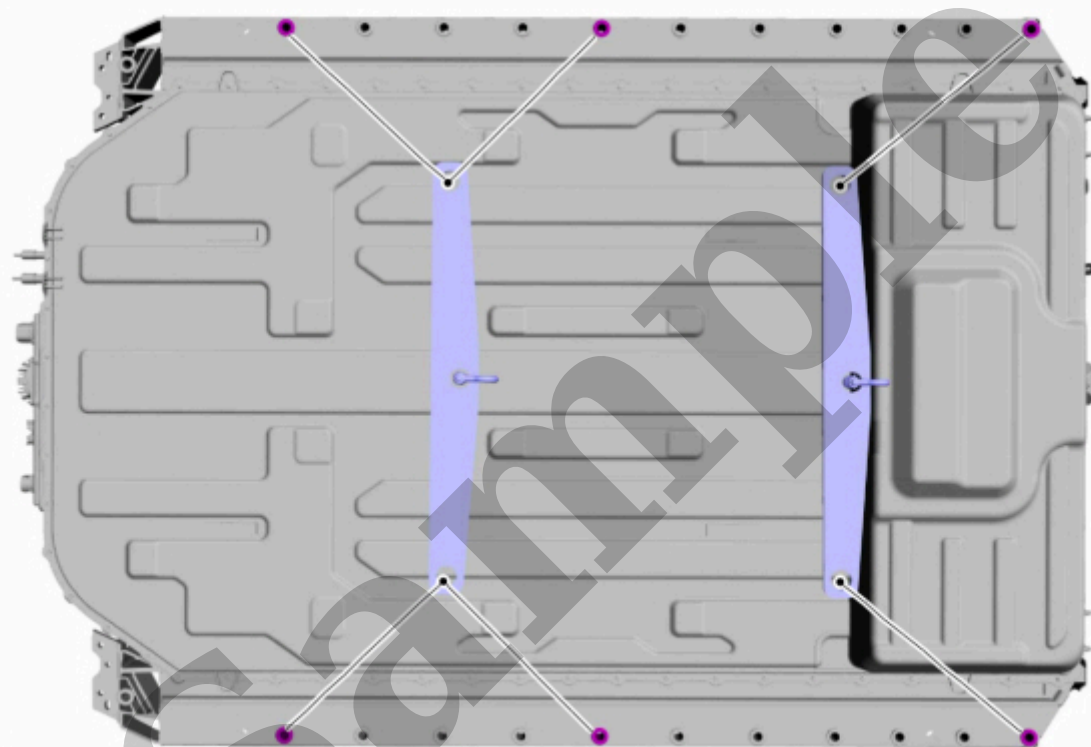
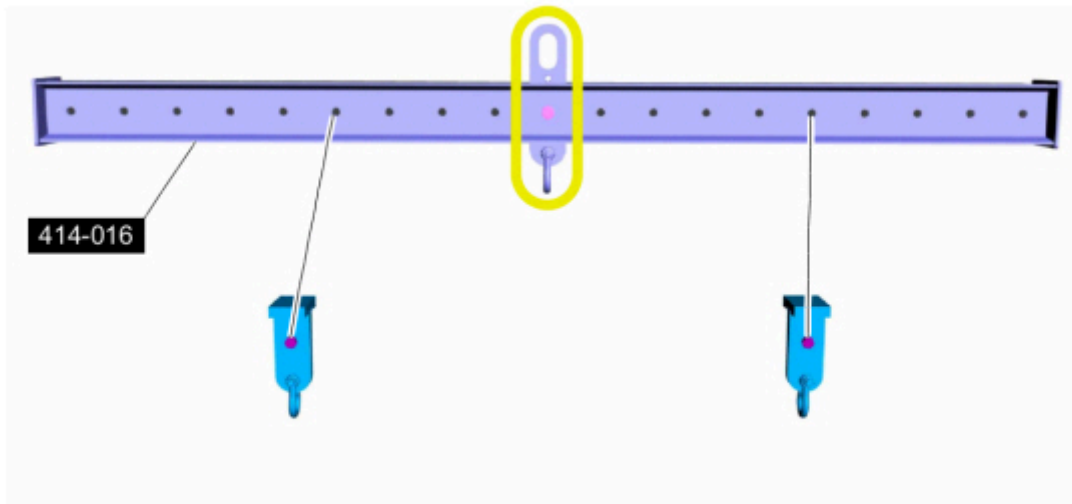
- 2,000 lb. Capacity floor crane

#### High Voltage Battery Lift Bar Adjustment and High Voltage Battery Lift Points - BEV A - Battery Pack

3. Attached the eyelet bolts through the HVB (High Voltage Battery) tray openings.

**Use Special Service Tool** : 414-016 Battery Lift Fixture





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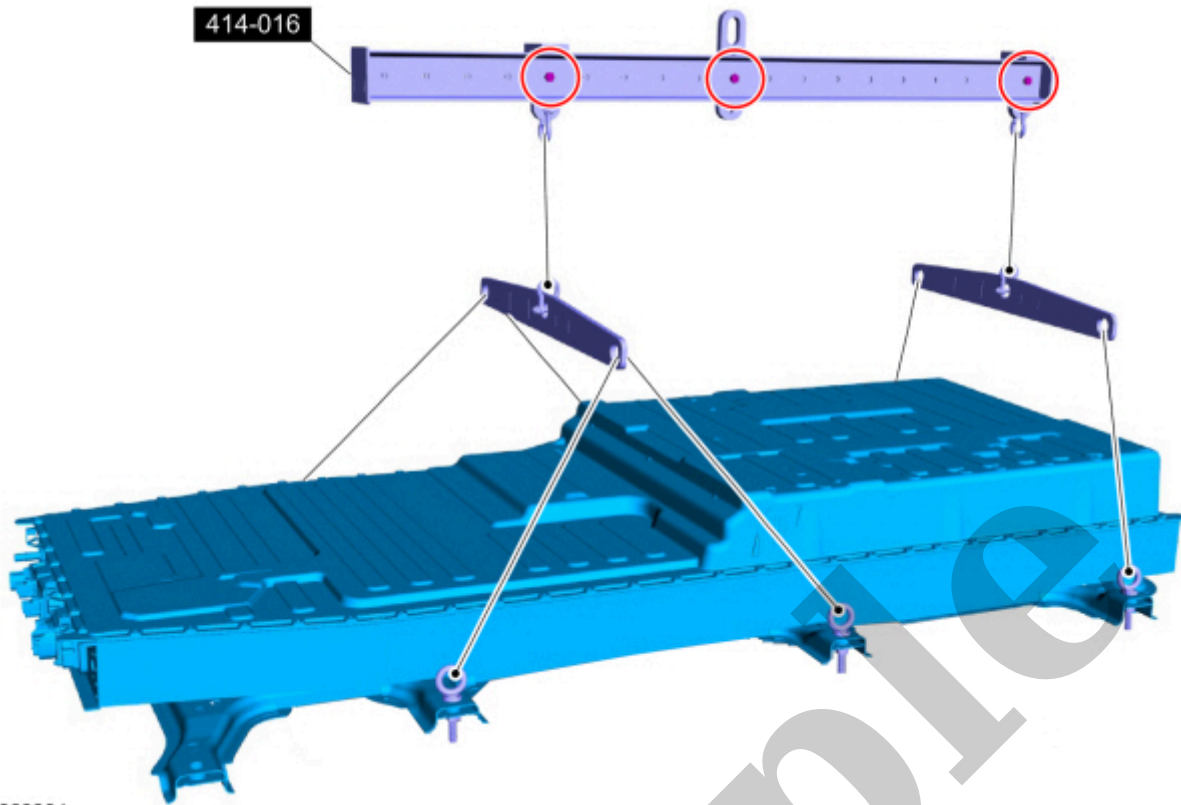
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### High Voltage Battery Lift Bar Adjustment and High Voltage Battery Lift Points - BEV G - Battery Pack

1. Insert the collars into the HVB (High Voltage Battery) subframe assembly openings.

***Use Special Service Tool*** : 414-016-03 Adapter for 414-016

2. Attached the eyelet bolts through the HVB (High Voltage Battery) subframe assembly collars.

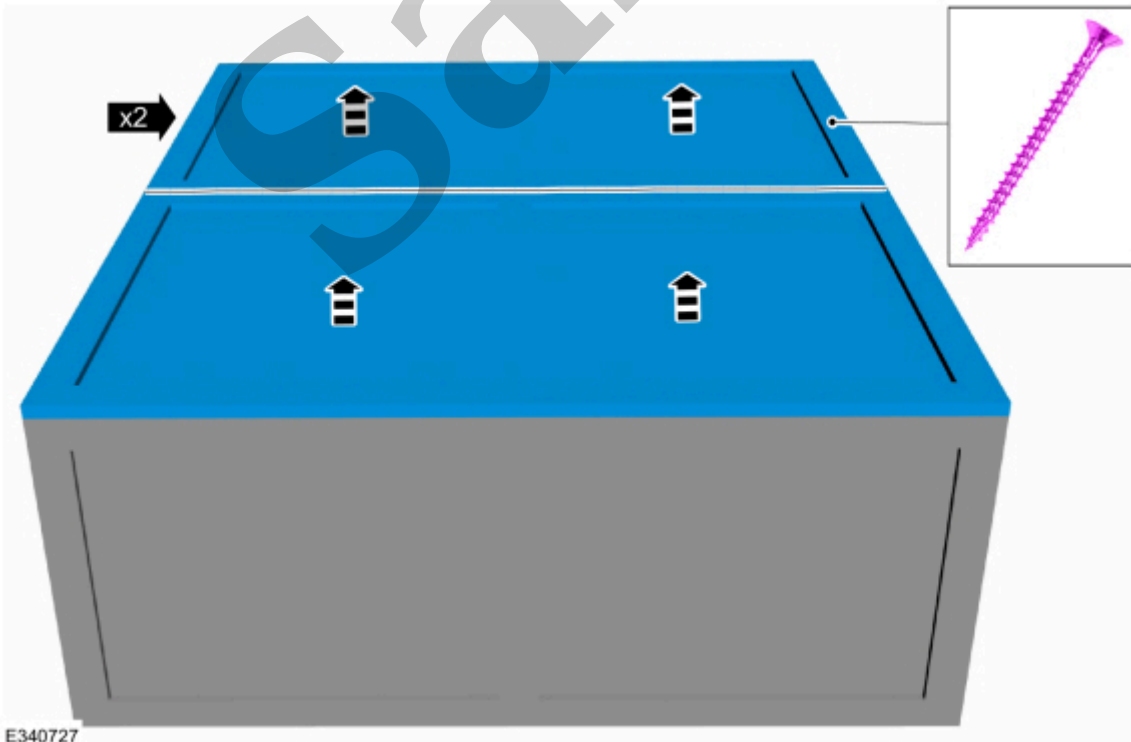


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### Unpacking the High Voltage Battery from the Shipping Crate - BEV A - Battery Pack

7. Remove the screws and the upper covers from the HVB (High Voltage Battery) shipping crate.



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