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Coding Information

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**Title:** EV TIPM HV DC Cable Installation Instructions

**Applies To:** 2022 - Present eMV and eCE Bus

## CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

08/09/2024 - Initial Article Release

## DESCRIPTION

This document will guide the user through the TIPM HV ( High Voltage ) DC Cable installation with proper shielding position.

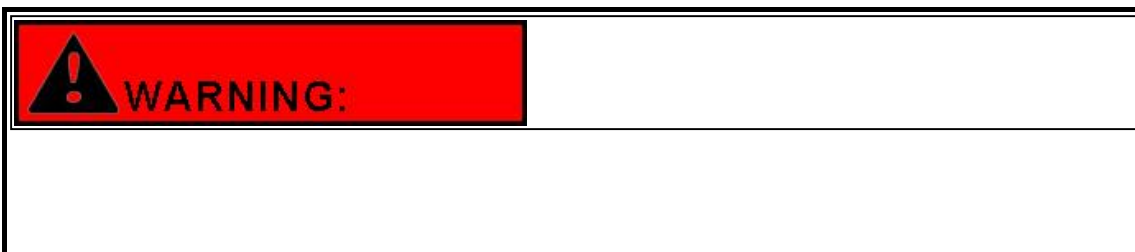
## SYMPTOMS

Possible fault codes if the shielding is not properly positioned during the intallation of the 2 DC HV cables into the TIPM.

### Diagnostic Trouble Codes

DTC/Light	Description
90 SPN 523644 FMI 5	<a href="#">TPIM/Drive Motor High Voltage Interlock : Current Below Normal Or Open Circuit</a>

## REPAIR STEPS



To prevent personal injury or death, NEVER service a high-voltage vehicle without completing high-voltage safety training. Before working on vehicle, read and obey all High-Voltage Safety and Lock-Out Tag-Out procedures and information.



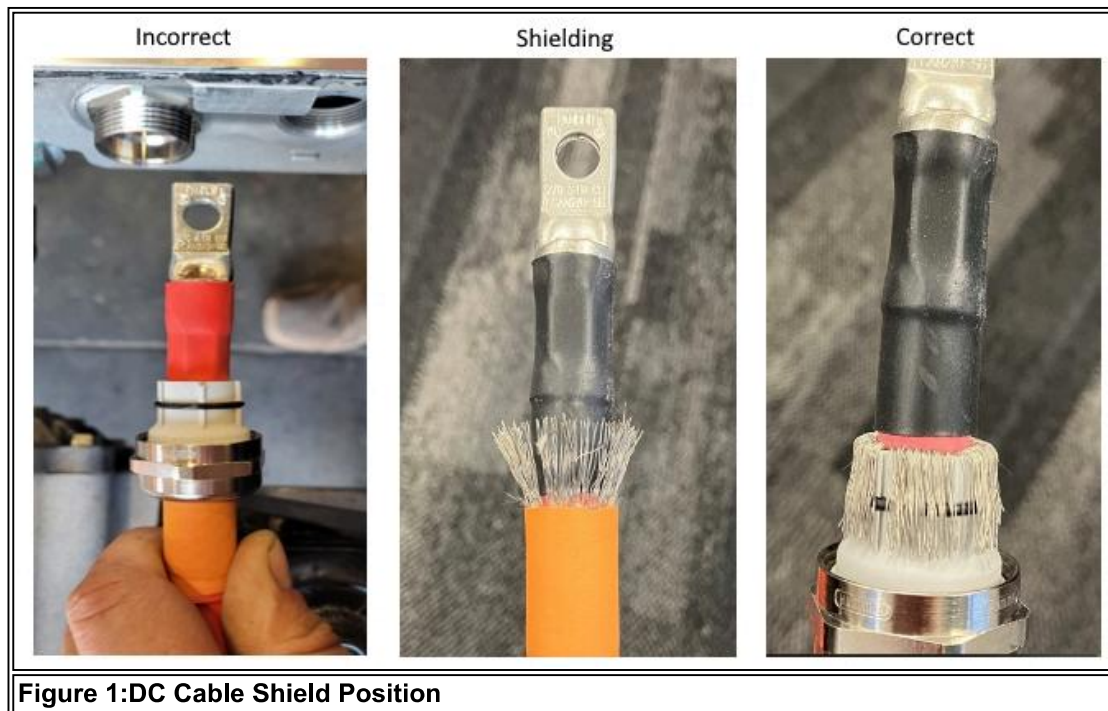
To prevent personal injury or death, wear and use approved high-voltage Personal Protective Equipment (PPE) when near a high-voltage electric vehicle. Inspect PPE before use. Do not use gloves or other PPE with expired dates, holes, cracks or damage. NEVER touch energized orange high-voltage cables or high-voltage components without wearing approved high-voltage PPE.



To prevent personal injury or death, read all information in the Safety Information and High-Voltage Safety sections of the service manual.

During the installation of the two HV DC cables at the TIPM the shielding at the TIPM side must be properly positioned as outline below.

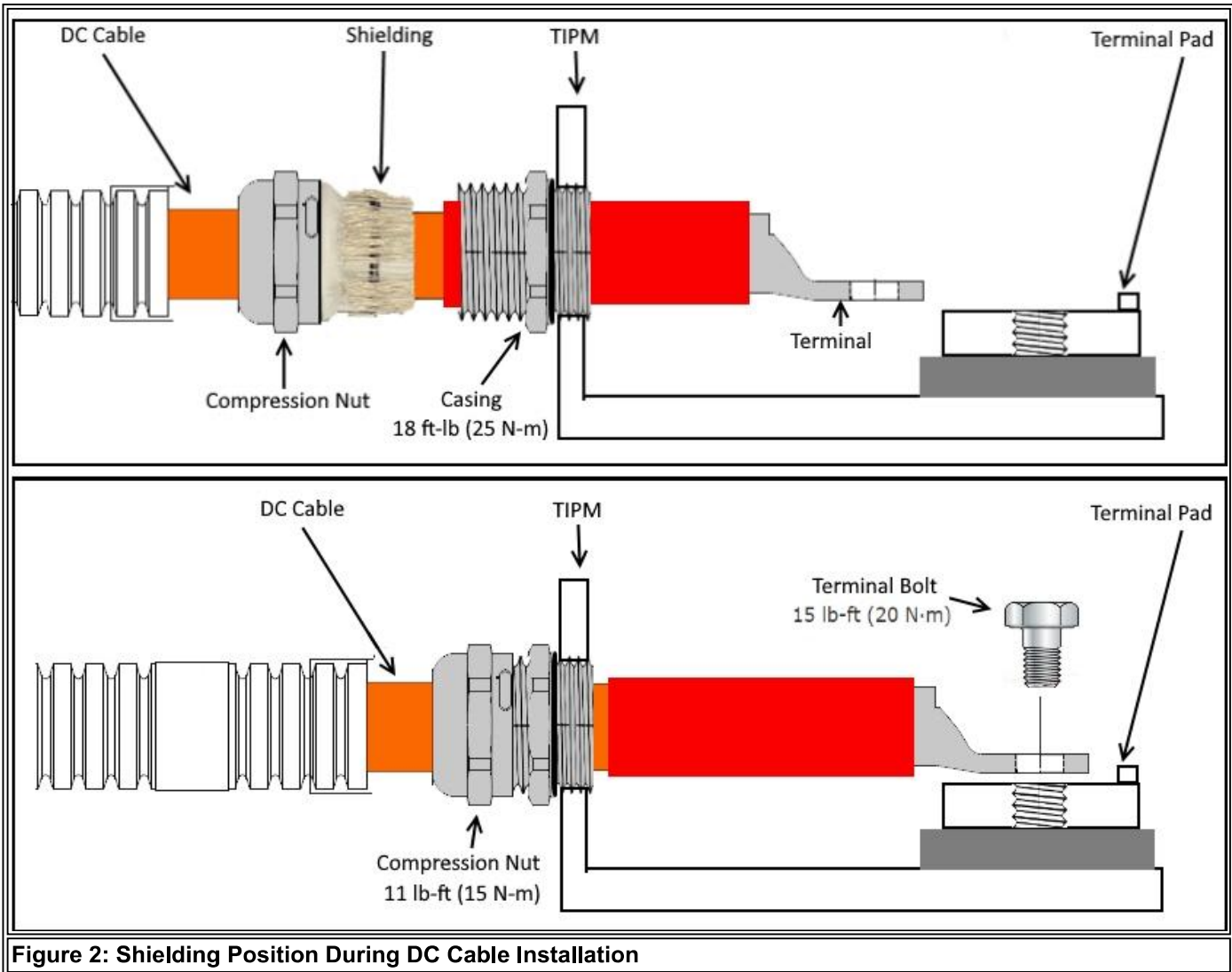
1. Figure 1 shows the incorrect and the correct positioning of the DC cable shielding at the TIPM



#### INSTALLATION PROCEDURE:

1. Install the cable through the compression nut and sleeve as shown in Figure 2
2. Fold back the cable shielding back over the compression sleeve as shown.
3. Insert the cable into the TIPM while threading the compression nut as you insert the cable until the cable terminal is in position to install the terminal bolt.
4. Do not tighten the compression nut.
5. Insert the M8 terminal bolt and torque to 15 lb-ft (20 N-m).

6. Tighten the compression nut and torque to 11 lb-ft (15 N-m).



## **WARRANTY INFORMATION**

### **Warranty Claim Coding:**

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

## **OTHER RESOURCES**

[Master Service Information Site](#)

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