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Current Language: English
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Coding Information

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Title: EV High Voltage HVAC Diagnostic Looper Plugs

Applies To: eMV EV Bus

CHANGE LOG

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

10/02/2023 - Initial Article Release

DESCRIPTION

HV HVAC Diagnostic Looper Plugs are available to use for diagnostics on specific HVAC Circuits at the HVDM.

SPECIAL TOOLS

Order through PDC ONLY

Tool Description	Tool Number	Comments	Instructions
Looper Plug HVAC	4214748C91	Order Through PDC	Qty 2 needed



Figure 1: Looper Plugs 4214748C91

DIAGNOSTICS

WARNING! To prevent personal injury and / or death, or damage to property, park vehicle on hard flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in both directions.

WARNING! To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

WARNING! To prevent personal injury and / or death, or damage to property, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

WARNING! To prevent personal injury and / 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.

WARNING! To prevent personal injury and / 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 highvoltage PPE.

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

WARNING! To prevent personal injury and / or death, or damage to property, remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last.

Looper Plugs are available through the PDCs for diagnostics of the EV Bus HVAC systems. HV Looper Plugs allow a technician to disconnect the HVAC Front and HVAC Rear high voltage (HV) connections at the HVDM (Figure 2) and also maintain the High Voltage Interlock Circuit (HVIL) Figure 3.

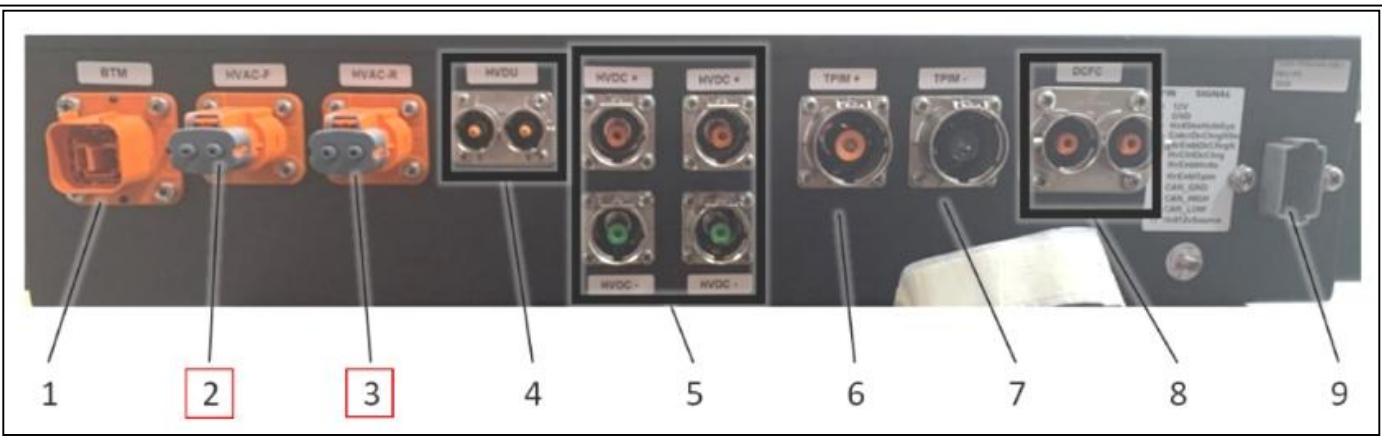


Figure 2: HVDM

- Item 2: HVAC Front Looper Installed
- Item 3: HVAC Rear Looper Installed

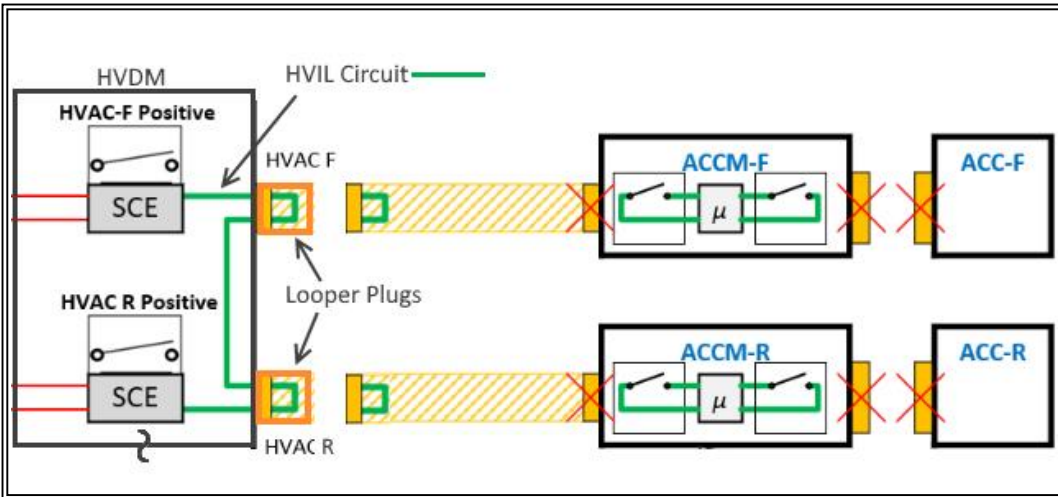


Figure 3: HVIL Circuit

OTHER RESOURCES

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