



Technical Service Bulletin

Technical Service Bulletin: TSB220173**Released Date: 12-Aug-2022****High Voltage DC/DC Converter Programmed Incorrectly**

High Voltage DC/DC Converter Programmed Incorrectly

Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

- BES CM0904 EV104B
- BES CM2450 EV105B

Issue Summary

- Some high voltage DC/DC converters (1 and 2) were programmed opposite of the Cummins Inc. part number label. See Table 1 for correct part information.

Table 1, Correct High Voltage DC/DC Converter Programming Information

Cummins Inc. Part Number	Part Description
300108	High Voltage DC/DC Converter 1
300109	High Voltage DC/DC Converter 2

- Cummins Inc. part number labels on the High Voltage DC/DC converters in the field can indicate incorrect component, which can cause confusion when replacing components.
- If published troubleshooting directs replacement of a high voltage DC/DC converter, verify which high voltage DC/DC converter needs to be installed.



Figure 1, Example of High Voltage DC/DC Converter Cummins Inc. Part Number Label.

Verification

Verify the correct high voltage DC/DC converter Cummins Inc. part number label.

1. Unplug low voltage connector from high voltage DC/DC converter with suspected issue.
2. Connect the recommended Cummins® electronic service tool or equivalent.
3. Turn keyswitch ON.
4. Monitor high voltage DC/DC converter output voltage to determine which high voltage DC/DC converter was unplugged. The unplugged high voltage DC/DC converter will have an output voltage of 0.

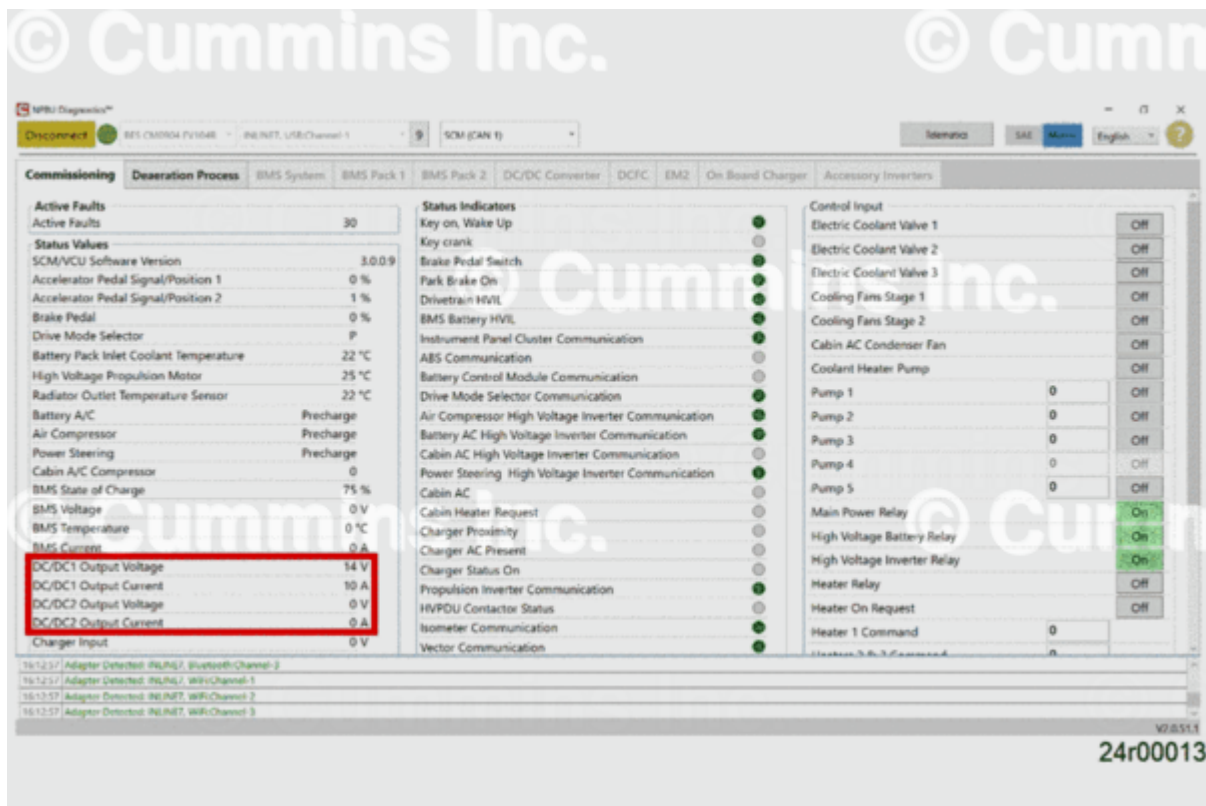


Figure 2, Example Of NPB Diagnostic Tool with High Voltage DC/DC Converter 2 Unplugged.

Resolution

- Order part number for the required high voltage DC/DC converter based on verification steps.
- If the remaining high voltage DC/DC converter is mislabeled, label high voltage DC/DC converter with the correct Cummins Inc. part number.



Figure 3, Example of Corrected Cummins Inc. Part Number Label.

Document History

Date	Details
2022-8-10	Module Created

Last Modified: 12-Aug-2022

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