



# Technical Service Bulletin

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| Technical Service Bulletin: TSB210259                            | Released Date: 29-Nov-2021 |
| High Voltage Junction Box Coolant Intrusion from Coolant Heaters |                            |

## High Voltage Junction Box Coolant Intrusion from Coolant Heaters

### 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

##### Symptoms:

- A fault code is active or inactive with more than one count within the last 25 engine operating hours from the following list: 42, 49, 54, 55 (BES CM0904 EV104B)
- A fault code is active or inactive with more than one count within the last 25 engine operating hours from the following list: 12144, 12146, 12148, 12161, 12163, 12165 (BES CM2450 EV105B)
- Vehicle electrification system will **not** enable
- Coolant smell
- External coolant leak

##### Root Cause:

Coolant heater malfunction causing coolant to travel into the high voltage junction box via the wiring harness connections.

#### Verification

- De-energize equipment. See Corresponding Service Manual. Reference lock out tag out procedure.
- Disconnect the high voltage connectors from the coolant heaters.
- Disconnect the high voltage connectors from the high voltage junction box.

- Remove the high voltage junction box cover and visually inspect the high voltage junction box, coolant heater, and wiring harness connections for coolant.

## Resolution

If coolant is found in the high voltage circuit:

- Replace the high voltage cable.
- Replace the malfunctioning coolant heater.
- Replace the high voltage junction box and other affected parts.

## Document History

| Date       | Details        |
|------------|----------------|
| 2021-11-19 | Module Created |

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**Last Modified: 29-Nov-2021**

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