

Technical Bulletin

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| Date Released: | 9/26/22 | Tracking Number: | TB-VBSD32-001 |
| Document Revision: | A | | |
| Date Revised: | | Written By: | Johnny Yoder |
| Model/Part No.: | VBSD32 | | |

Re: Electrical shorts will result in damaging of VBSD32 modules

Detail:

For systems with a damaged control module, you must eliminate the short within the system before replacing the control module. Failure to do so will result in damage to the new control module.

You will need an inline fuse holder and a 2A fuse (do not exceed 2A).

To safely determine where the short is without damaging the replacement control module, the following steps should be performed:

- Turn off power. Remove damaged module.
- Disconnect all accessories from the main harness (L & R Side Body Sensors; L & R LED indicators; GPS antenna; Buzzer).
- Add a 2A fuse inline to the +12V IGN/ACC wire (RED) on the main harness.
- Connect the main harness to the replacement (good) module. Do not connect any accessories yet.
 - Apply power and check the 2A fuse.
 - If the 2A fuse is blown, the short is on the main harness.
 - Further diagnostics will need to be performed to identify the cause and location of the short. Repair or replacement of main harness will be needed to resolve issue. Dealer technician should consult with OEM for guidance, if needed.
 - If the 2A fuse is good, then the short is not on the main harness. Turn off power.
 - Connect **LEFT SIDE BODY SENSOR**. Apply power and check 2A fuse.
 - If 2A fuse is blown, the short is from the **LEFT SIDE BODY SENSOR**. Turn off power.
 - Replace sensor.
 - Connect **RIGHT SIDE BODY SENSOR**. Apply power and check 2A fuse.
 - If 2A fuse is blown, the short is from the **RIGHT SIDE BODY SENSOR**. Turn off power.
 - Replace sensor.
 - Connect **GPS ANTENNA**. Apply power and check 2A fuse.
 - If 2A fuse is blown, the short is from the GPS antenna. Turn off power.
 - Replace **GPS ANTENNA**.

NOTE 1: The Side Body Sensors are not interchangeable. The replacement sensor must match the side that is being replaced (LEFT or RIGHT). Be sure to orient the sensor so the TOP indicator is up.

NOTE 2: The L/R LED Indicators and the Buzzer are low current devices and should not damage the module, if shorted. However, their functionality would be compromised while shorted.

