



## Technical Service Bulletin (“TSB”)

**Release Date:** 04/02/2025

**Bulletin Title:** Vehicle Control Unit (**VCU**), Thermal Control Unit (**TCU**), and Telematics Module Unit (**TMU**) Software Update

**Bulletin Number:**  
TSB-0425-01

**Subject:** Vehicle Control Unit (**VCU**), Thermal Control Unit (**TCU**), Telematics Module Unit (**TMU**), and Direct Current / Direct / Current (**DC/DC**) software update.

### Affected Vehicle & Model Information

**Make:** Bollinger

**Model:** B4

**Year:** 2025

**Production Date Range:** 09/27/2024 to 11/21/2024

**VIN(s):**

7WE45CN57SL000038	7WE45CN52SL000027	7WE45CN55SL000040
7WE45CN52SL000058	7WE45CN5XSL000034	7WE45CN55SL000023
7WE45CN52SL000044	7WE45CN58SL000033	7WE45CN55SL000054
7WE45CN51SL000052	7WE45CN50SL000060	7WE45CN57SL000069
7WE45CN59SL000025	7WE45CN53SL000022	7WE45CN55SL000071
7WE45CN50SL000057	7WE45CN50SL000043	7WE45CN59SL000073
7WE45CN59SL000056	7WE45CN59SL000039	7WE45CN57SL000055
7WE45CN58SL000047	7WE45CN53SL000053	7WE45CN56SL000046
7WE45CN54SL000045	7WE45CN53SL000070	7WE45CN59SL000042
7WE45CN57SL000041	7WE45CN57SL000024	7WE45CN57SL000072
7WE45CN54SL000062	7WE45CN54SL000029	

**Bulletin Description:** Update the Vehicle Control Unit (**VCU**), Thermal Control Unit (**TCU**), and Telematics Module Unit (**TMU**) software to the latest version.

**Symptom:** The existing **VCU** and **TCU** software may cause various fault codes to be stored in the vehicle's fault memory. The **TMU** does not currently support WiFi connection capability.

**Discussion:** If equipped, the updated VCU software adds ePTO enhancements, improvements to 12V and high-voltage battery conditioning, and eliminates erroneously stored faults. The **TCU** software improves the thermal management system and eliminates erroneously stored faults. The **TMU** software adds WiFi connection capability to the vehicle.

#### Disclaimer and Confidentiality Notice

These bulletins are intended solely for use by professional technicians with the appropriate training, tools, and safety knowledge to perform service and maintenance accurately and safely. They provide essential information on potential conditions that may affect specific vehicles or offer guidance for correct service procedures.

If a condition is described, please do not assume it applies to all vehicles. To determine whether a specific vehicle may benefit from this information, consult your authorized Bollinger Motors dealer.

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**Labor Operation:** 1015.1060 General Purpose Labor Time  
**Labor Time Allocation:** 1.0 hour

**Parts Required:**

Quantity	Part Number	Part Group	Description
1	S102793D	Electrical Controls	<u>VCU Software Update:</u> Primary from Software Ver: 8.2.0.0.0 to <b>8.6.0.0.0</b> Secondary from Software Ver: 2.0.0.0.0 to <b>2.1.2.0.0</b>

Quantity	Part Number	Part Group	Description
1	S0102807B	Electrical Controls	<u>TCU Software Update:</u> From Software Ver: 9.2.0.1.0 to <b>9.6.0.0.0</b>

Quantity	Part Number	Part Group	Description
1	S069119D	Electrical Controls	<u>TMU Software Update:</u> From Software Ver: 24.42.6.0 to <b>25.7.6.0</b>

Quantity	Part Number	Part Group	Description
1	S051955C	Electrical Controls	<u>DC/DC Software Update:</u> <u>Check and update the following</u> <ul style="list-style-type: none"> <li>• BM: 3.6.0.1</li> <li>• FBL: 3.6.2.1</li> <li>• APP: 3.6.7.1</li> <li>• CFG: 3.6.3.1</li> </ul>

## Bulletin Repair Procedure Details

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1. Verify the low voltage battery state of the charge is 12 volts or higher with the main battery switched off.
2. Verify the vehicle voltage before starting the update process and monitor it throughout.
3. Update the Software Version for VCU TCU, check the software, and update the DC-DC converter as outlined in this technical bulletin

The update sequence includes the following steps:

- a. Connect the breakout OBD cable to the OBD port in the vehicle.
  - b. Ensure the breakout OBD harness is connected to the Vector CAN Case.
  - c. Connect the Vector CAN Case to the USB port on the laptop. Ensure the Bollinger Motors laptop is connected to a power supply
  - d. Connect the laptop to the internet using either a Wi-Fi connection
  - e. Start a Microsoft Teams connection on the laptop with the Bollinger Motors Software personnel
  - f. Allow Remote Control access to the laptop.
  - g. Power up the vehicle (Key in --> ACC --> RUN).
  - h. Wait for directions from the Bollinger Motors Software personnel to cycle the vehicle (Turn ignition OFF, wait 60 seconds, and Turn ignition ON).
4. Update the Software Version for TCU as outlined in this technical bulletin.

The update sequence includes the following steps:

- a. Connect the breakout OBD cable to the OBD port in the vehicle.
  - b. Make sure the breakout OBD harness is connected to the KVaser tool.
  - c. Connect the KVaser tool to the USB port on the laptop. Ensure the Bollinger Motors laptop is connected to a power supply
  - d. Connect the laptop to the internet using either a WiFi connection
  - e. Start a Microsoft Teams connection on the laptop with the Bollinger Motors Software personnel
  - f. Allow Remote Control access to the laptop.
  - g. If not powered, power up the vehicle (Key in--> ACC--> RUN).
  - h. Wait for directions from the Bollinger Motors Software personnel to cycle the vehicle (Turn OFF, wait 60 seconds, and Turn ignition ON).
5. Over the Air, update the Software Version for TMU as outlined in this technical bulletin.

The update sequence includes the following steps:

- a. If not powered, power up the vehicle (Key in--> ACC--> RUN).
- b. Wait for directions from the Bollinger Motors Software personnel to cycle the vehicle (Turn OFF, wait 60 seconds, and Turn ignition ON).

## Post-Repair Actions

1. **Verification:** Check if warning telltales are illuminated in the cluster. Verify that the vehicle can charge (slow/fast). Ensure that the vehicle can start in Ready mode.
2. **Documentation:** Refer to TSB

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3. **Warranty Submission:** To submit the warranty, claim for this technical service bulletin, select Dealer Stock Unit (not PDI) as the Service Type on the claim. Select Complaint, Cause, Corrective Action, and add descriptions. Attach a copy of the TSB and the repair order to the claim.
4. Please use labor operation -General Purpose Labor Time-1015.1060. Labor Time-1.0.

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