

CLS-M Series Power/Communication Assembly

BT122 WPAN Firmware Update

This document contains instructions for updating the BT122 WPAN Module (PN 167232) for the CLS-M Series Power/Communication Box Assembly (PN 153616).

Required Tools

- Phillips Screwdriver
- USB Cable with Type-B Connector
- Jumper Shunts ("Jumpers")
- Windows 10 or Windows 11 Computer

Required Downloads

- Firmware (PN 222904)
- Firmware Update Tool for 167232 WPAN Board

Prerequisite Installed Software

- CLS-M USB Driver
- Virtui3 Software



NOTE: To download the 222904 Firmware, visit www.RiceLake.com/resources/firmware. For the Firmware Update Tool and CLS-M USB driver, visit www.RiceLake.com/resources/software.

Virtui3 Software must be installed to run the Firmware Update Tool.

Firmware Update Tool Installation



NOTE: This tool is only compatible with Windows 10 and Windows 11 operating systems. The following instructions show how to install and run the tool on Windows 11. If using Windows 10, the procedure will vary.

1. Download the Firmware Update Tool from the Rice Lake website (see [Required Downloads on page 1](#)).
2. Right-click the zip file: **167232_Firmware_Update_Tool** and select **Extract All**.

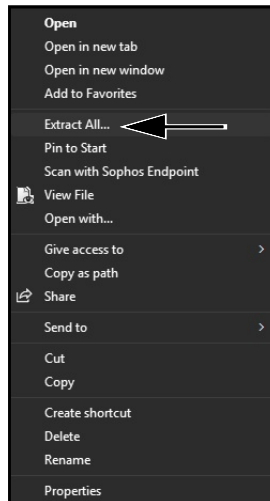


Figure 1. Extract Zip File

3. Launch the **setup.exe** file located among the extracted files.

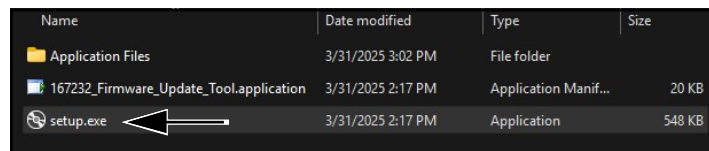


Figure 2. Launch Setup File

4. The installer launches and a security prompt displays.
5. Select **Install** to begin the installation.

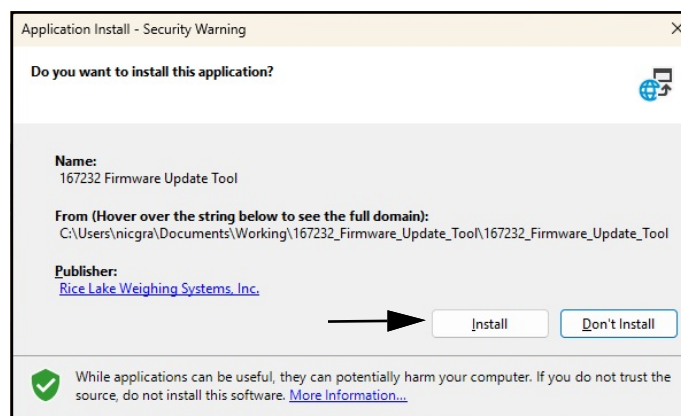


Figure 3. Installation Prompt

6. An installation progress windows briefly displays.

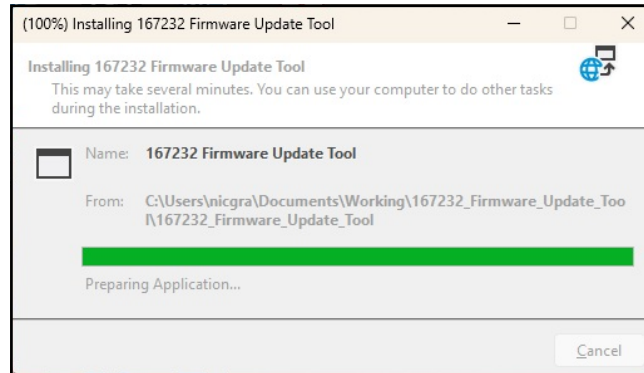


Figure 4. Installation Progress Window

7. The Firmware Update Tool launches and displays.

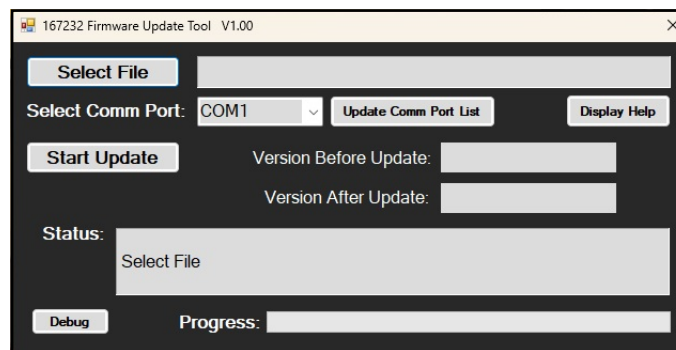


Figure 5. Firmware Update Tool



NOTE: After initial setup, the firmware update tool can be launched from the Windows Start Menu within the “Rice Lake Weighing Systems” folder.

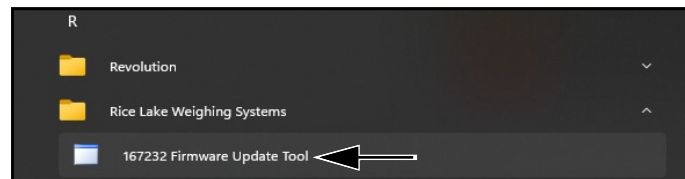


Figure 6. Update Tool in Start Menu

Firmware Installation

1. Disconnect the power cable from the enclosure.
2. Use a Phillips screwdriver to remove the four screws and washers from the assembly cover. Keep screws and washers for reassembly.
3. Remove and set aside the cover.

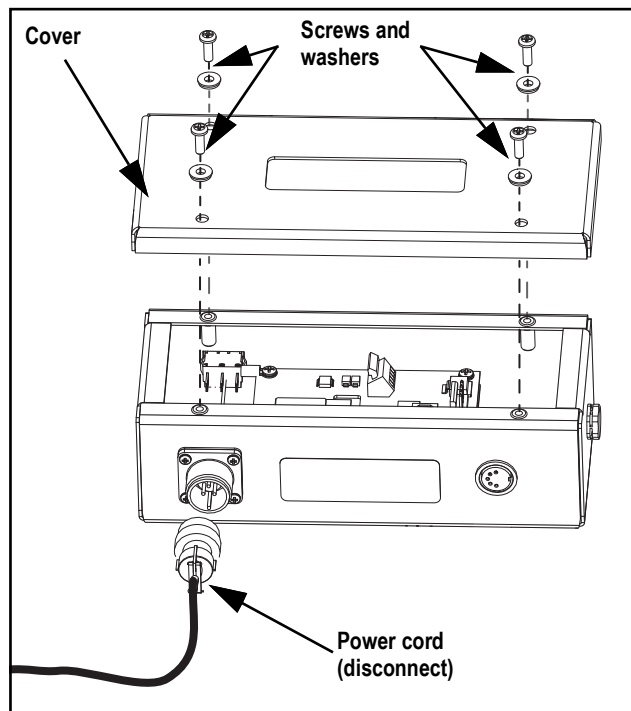


Figure 7. Remove Cover

4. Locate the JP1 and JP2 jumpers on the WPAN board.

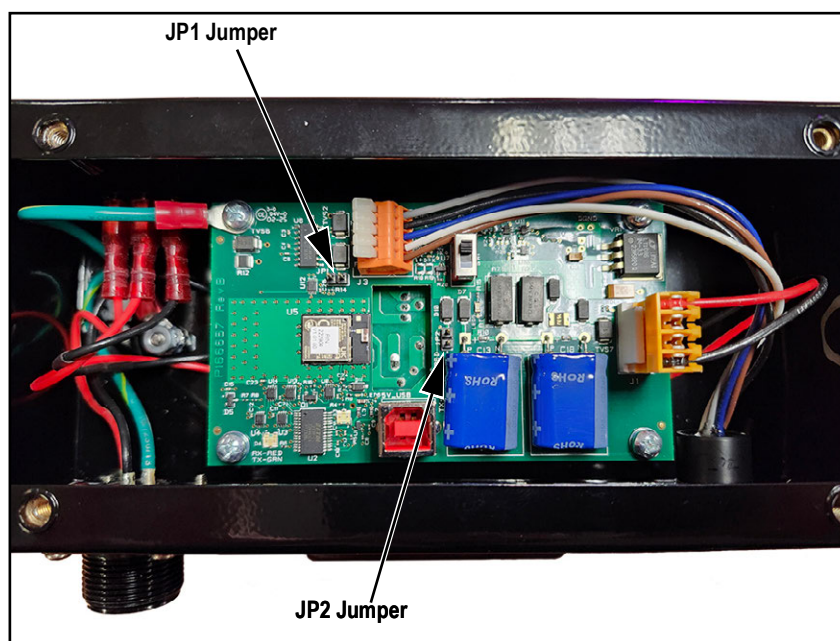


Figure 8. Compow Box BT Board

5. Use fingers to gently install jumper shunts across both pins in jumpers JP1 and JP2.

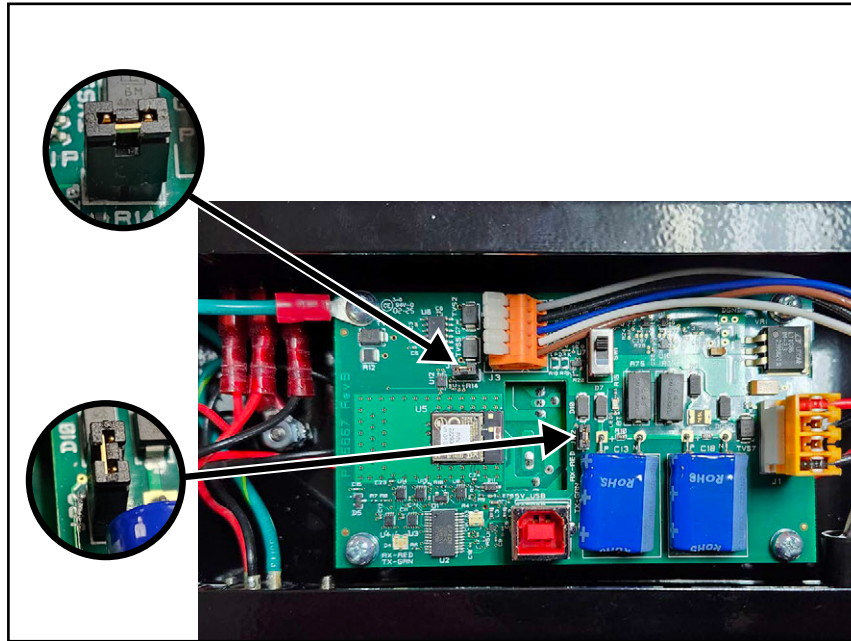


Figure 9. Compow Box BT Board w/ Shunts

6. Click **Select File** and choose the Firmware bin file: **RLWS_222904_Firmware_For_167232.bin**.
7. The status message *Ready...* displays.
8. Open the **Select Comm Port** drop-down menu and note the comm ports displayed. Do not select a comm port.

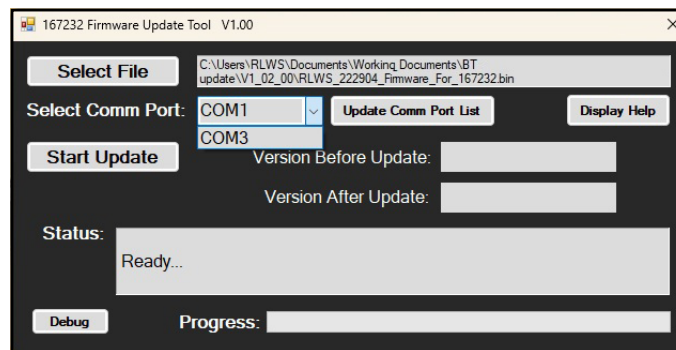


Figure 10. Available Comm Ports

9. Connect the computer to the BT122 board using a USB-B cable.



NOTE: If the connection is successful, the WPAN board LEDs illuminate and a new comm port populates in the Select Comm Port drop-down menu. If no additional comm port displays, select Update Comm Port List.



Figure 11. Connected WPAN Board

10. Select the new Comm Port through the **Select Comm Port** drop-down menu.

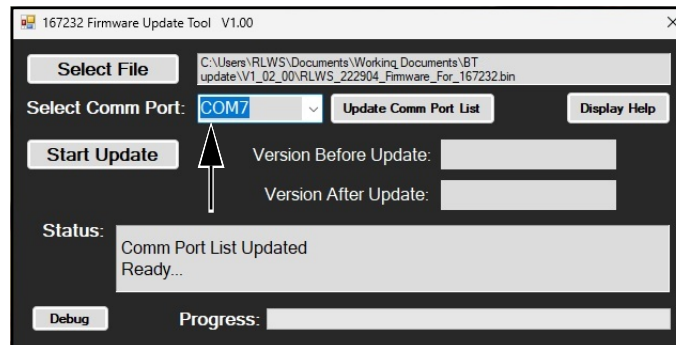


Figure 12. Select New Comm Port

11. Select **Start Update**.

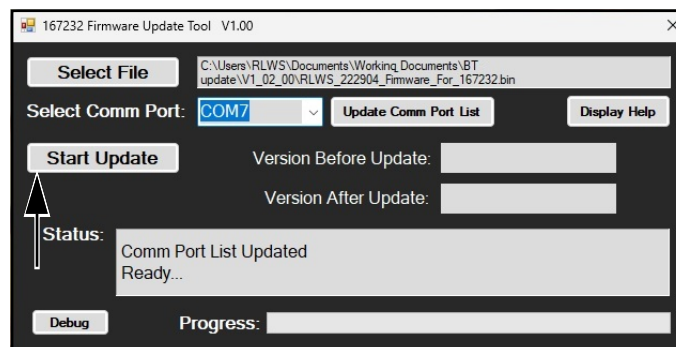


Figure 13. Begin Update

12. The firmware installation begins and a progress bar displays.

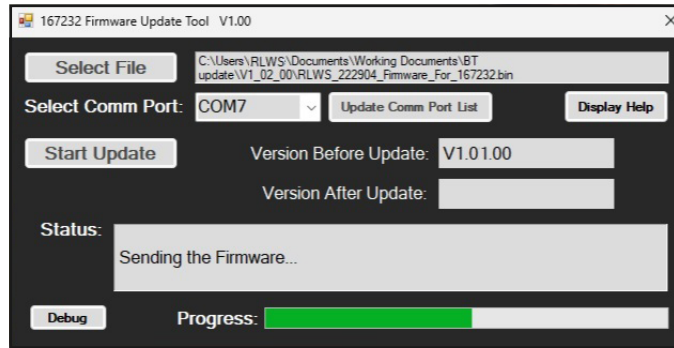


Figure 14. Firmware Installation

13. Allow the update tool to run until *Firmware Update Complete* displays.

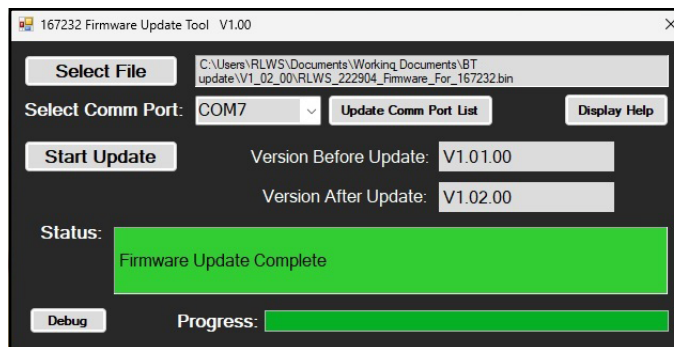


Figure 15. Installation Completes



NOTE: If the installation is unsuccessful, disconnect and reconnect the USB connector to the board to cycle power. Then, repeat [Step 10](#) to [Step 16](#).

14. Once the installation is complete, disconnect the USB cable from the board.
15. Remove the shunts and reinstall the cover to the assembly.
16. Reinstall the power cable into the power/communication assembly.

