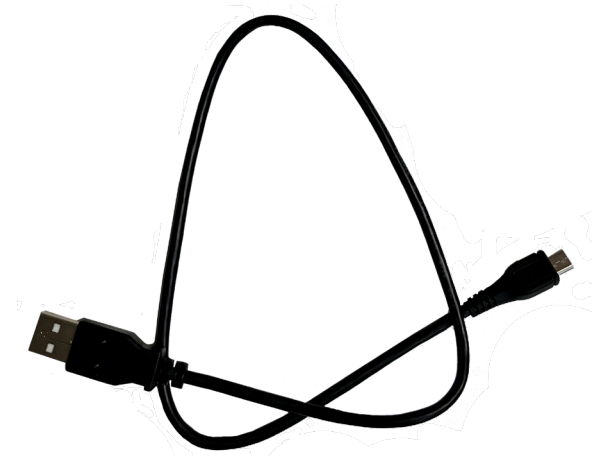
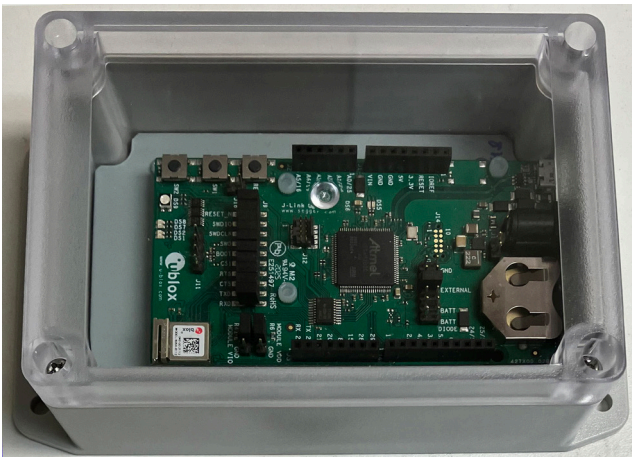


# Dongle Kit for BMID III-B (BatteryRx™) User Guide ProCore™ Edge



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**A NOTE ABOUT CUSTOMER SUPPORT**

Please write down the unit serial number in the Owner’s Record below to ensure superior service, and have it available when contacting Ampure Customer Service. The serial number can be found on the nameplate rating label on the left side of the unit.

Owner’s Record

Model:

ProCore™ Edge

Serial Number (SN):

Purchase date:

Output power:

**Customer Support:** IPCService@webasto.com  
1-866-767-4242

**Parts:** WCSIParts@webasto.com

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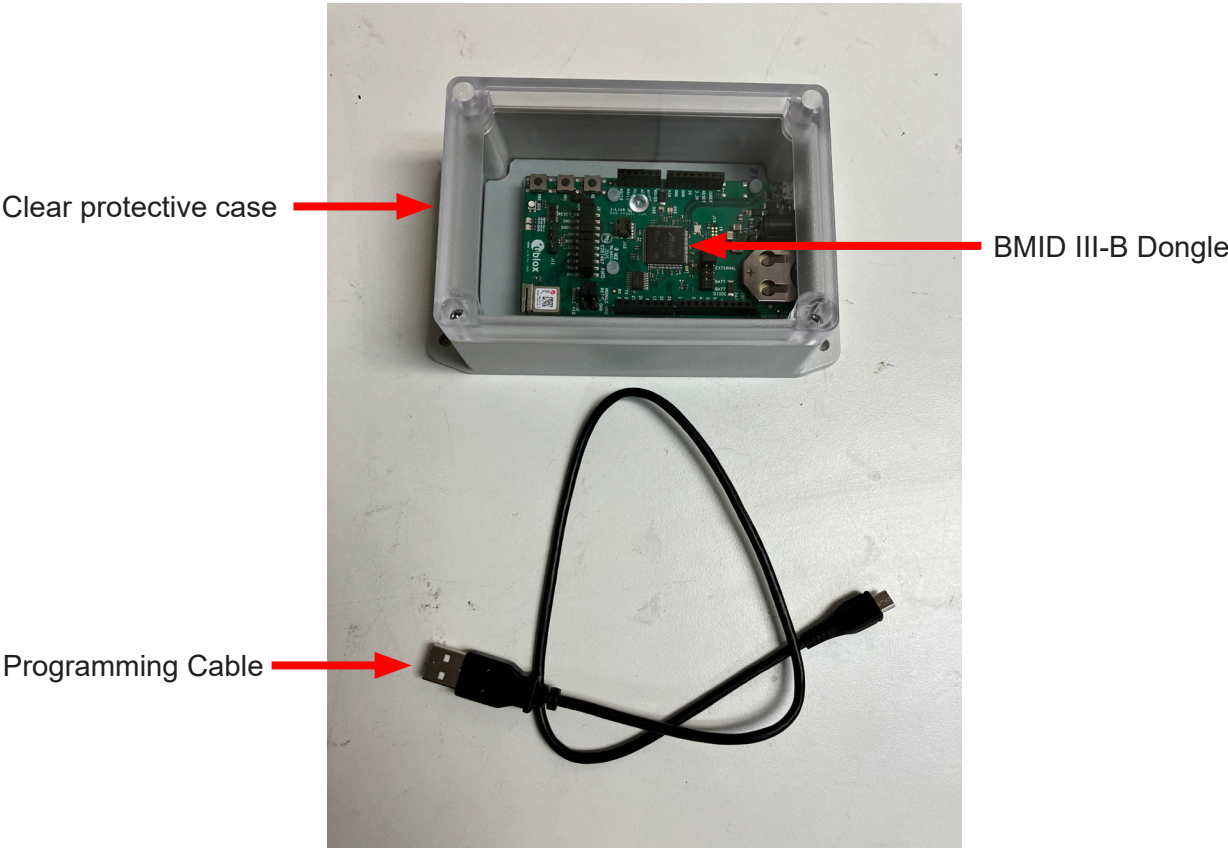
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Parts and Software Applications Needed for this Procedure:

Parts & Applications	Part Number	Notes
Kit Dongle BMID III-B USB CBL	5912660	<b>Includes:</b> <ul style="list-style-type: none"><li>• BMID III-B Dongle</li><li>• Programming Cable</li><li>• Instructions</li></ul>
PC with Windows Operating System		
BatteryRx Version 5.000 or later		



## Connecting the Dongle:

1. Connect the cable to the port of the dongle box, then connect the USB cable end to the PC.
2. Open the BatteryRx application (Version 5.000 or later) on the PC.
3. When the application opens, select the **Wireless** box on the upper left corner of the screen.

**NOTE:** Several other messages may appear temporarily before the screen below opens for you.

4. Next, select the refresh icon to scan the PC for existing COM ports, then select the COM Port **Connect** button.

BMID III Utility

Configuration Charge Log Fault Log Battery History Daily Performance Log Alert Log Alert Settings Firmware Load Zero Current Cal Current Gain Cal Volt Cal Advanced

☒ Wireless COM Port COM16

Serial Number  SIM Card Number  Current SW Version

Log  of  Start Curr Limit  A/100Ah

Configuration date  SOC Limit  %

Version when configured  EQ Start Day/Time  :  :  EQ End Day/Time  :  :

Vehicle ID  Max Ah Btw EQ  Ah

Battery ID  Max days Btw EQ  Days

Battery Type  Time zone  ☒ Auto adjust for DST

Num Of Cells  Daily Call time (24 hr):  :

Battery Capacity  Ah

Read Active Config Write To BatteryRx Write Config to file Load Config

Read #1 Prev Next Save Config

BatteryRx Clock  :  :  PC Clock Friday, 21 January 2022 09:59:37 Set BatteryRx Clock

Info  Version 5.000

Target V limit  mV/cell

Temp Foldback  A/°C/100Ah

Internal Resist  mOhm/CI/Ah

Parasitic Curr  mA

Key On Detect

Key On Logic

Key On Curr  mA

Run Curr Thshld  mA

SOC

Pack Current (positive = charging)

Pack Voltage

Mid-pack Voltage

5. Once connected, the button will change to “Disconnect,” and several messages will appear in the Info box below. **Wait until you see “Select Wireless BMID and Connect” in the info box at the bottom, then go to Step 6.**

BMID III Utility

Configuration Charge Log Fault Log Battery History Daily Performance Log Alert Log Alert Settings Firmware Load Zero Current Cal Current Gain Cal Volt Cal Advanced

☒ Wireless COM Port COM16

Serial Number  SIM Card Number  Current SW Version

Log  of  Start Curr Limit  A/100Ah

Configuration date  SOC Limit  %

Version when configured  EQ Start Day/Time  :  :  EQ End Day/Time  :  :

Vehicle ID  Max Ah Btw EQ  Ah

Battery ID  Max days Btw EQ  Days

Battery Type  Time zone  ☒ Auto adjust for DST

Num Of Cells  Daily Call time (24 hr):  :

Battery Capacity  Ah

Read Active Config Write To BatteryRx Write Config to file Load Config

Read #1 Prev Next Save Config

BatteryRx Clock  :  :  PC Clock Friday, 21 January 2022 10:09:11 Set BatteryRx Clock

Info  Version 5.000

Target V limit  mV/cell

Temp Foldback  A/°C/100Ah

Internal Resist  mOhm/CI/Ah

Parasitic Curr  mA

Key On Detect

Key On Logic

Key On Curr  mA

Run Curr Thshld  mA

SOC

Pack Current (positive = charging)

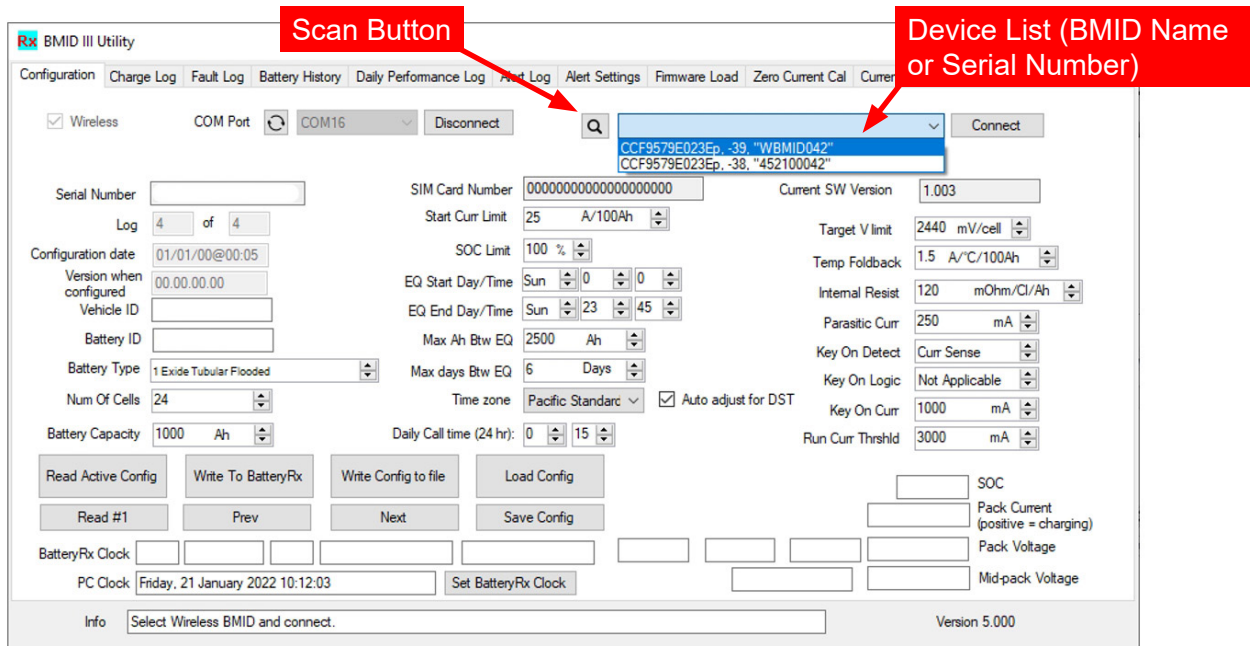
Pack Voltage

Mid-pack Voltage

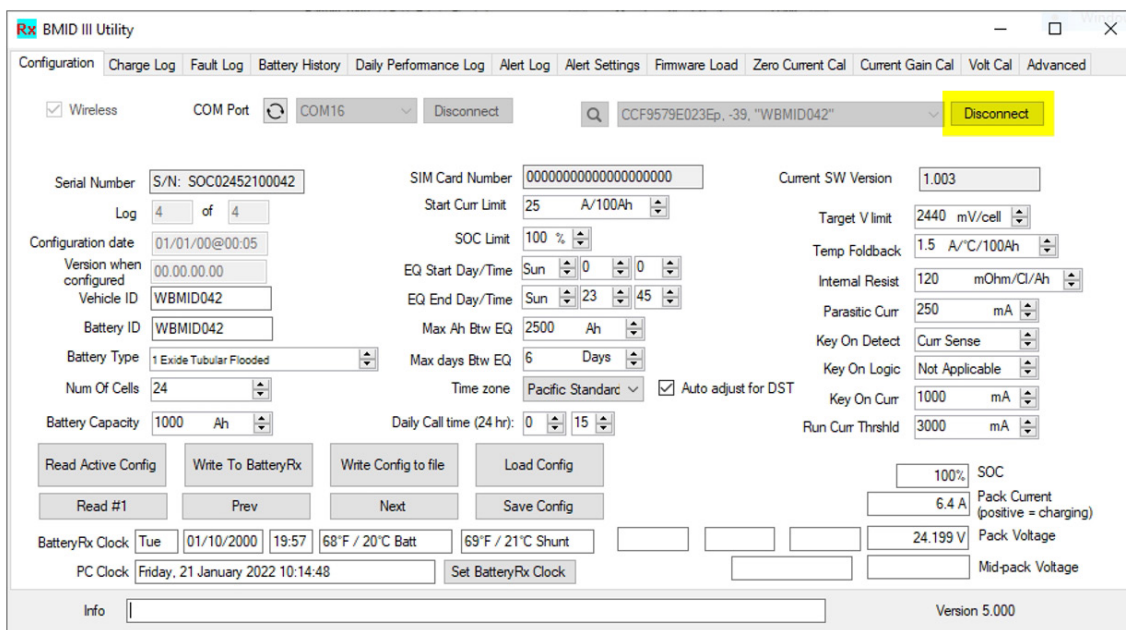
6. The fields shown below will not be filled in, so you will need to know the assigned name of the BMID or the serial number printed on the side of the BMID.

Once you confirm the assigned name or serial number, select that specific BMID from the drop-down menu as shown below.

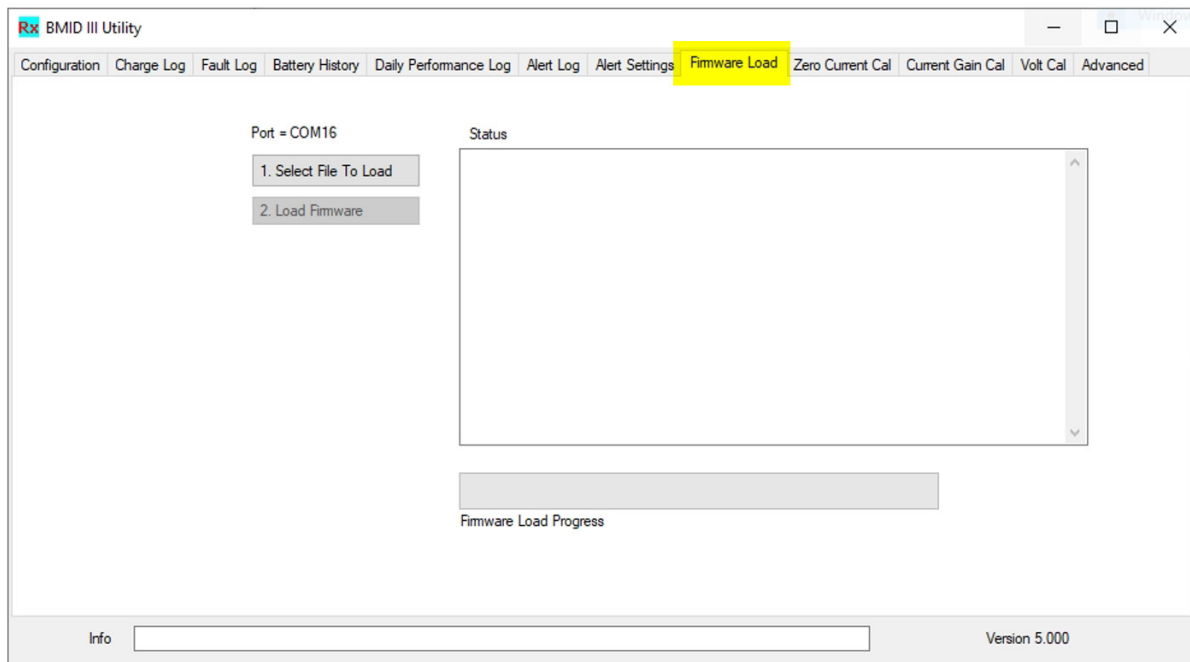
If the BMID you want is not listed, select the **Scan** button to re-scan for nearby BMID devices. Then select the **Connect** button.



7. When the BMID is successfully connected, the Connect button will change to "Disconnect," and the configuration data will be retrieved from the BMID and be added to the data fields.

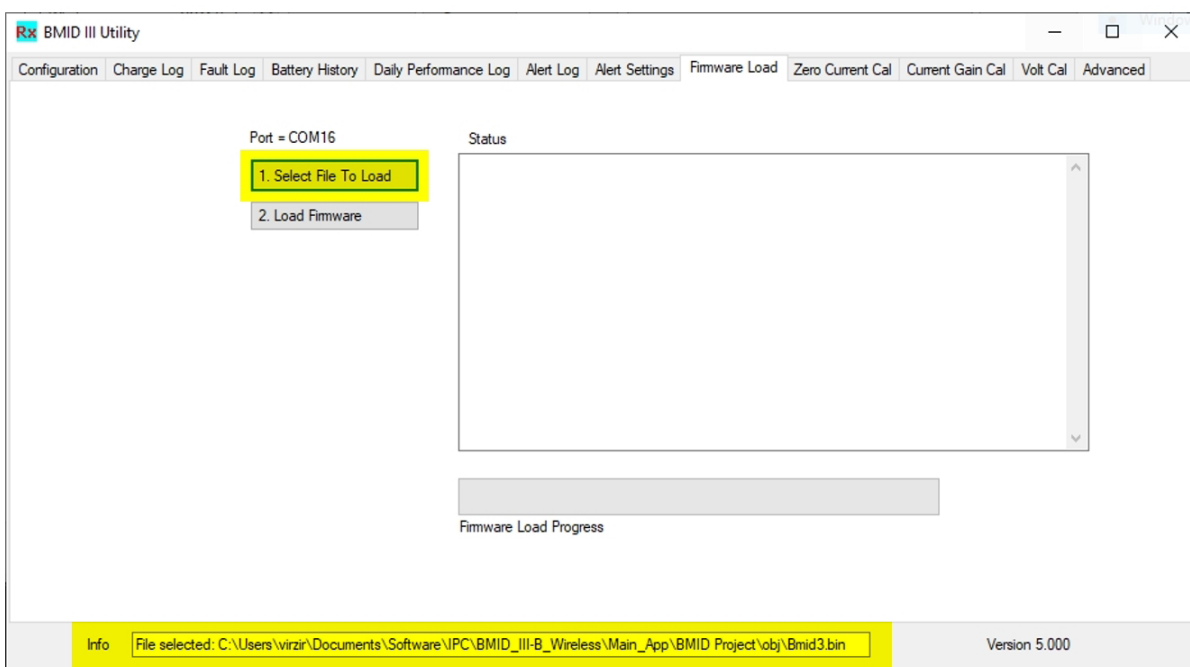


8. Select the **Firmware Load** tab.



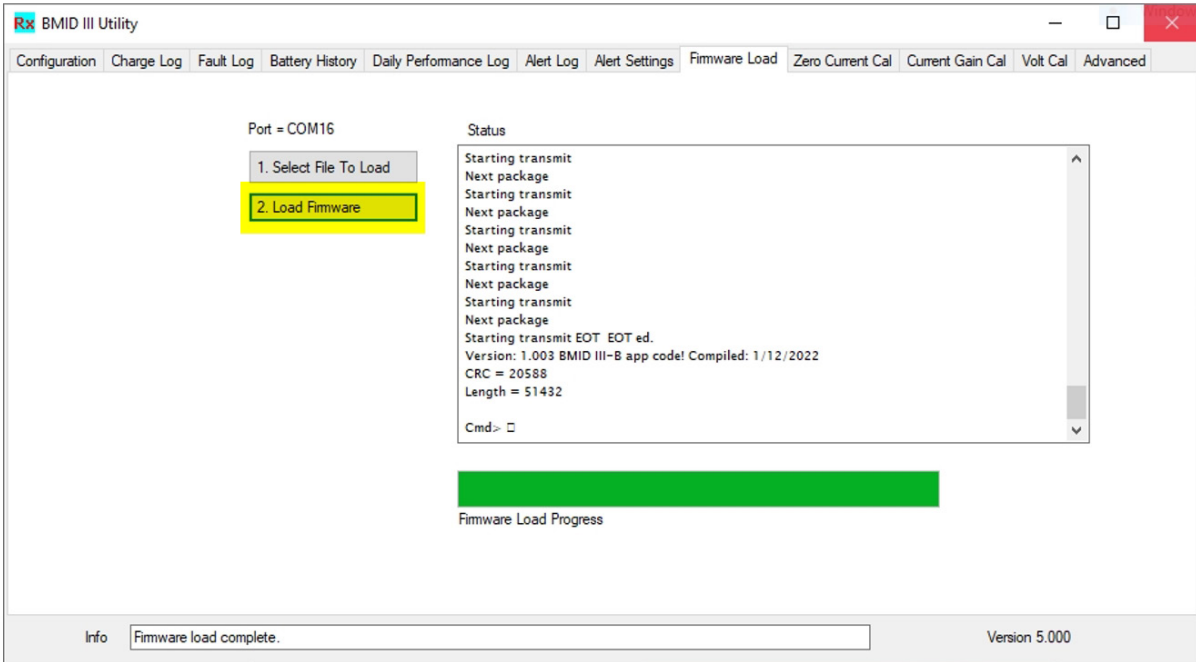
9. Next, click on **Select file to load**.

10. Select the bin file for the firmware – the file path will appear in the Info box.

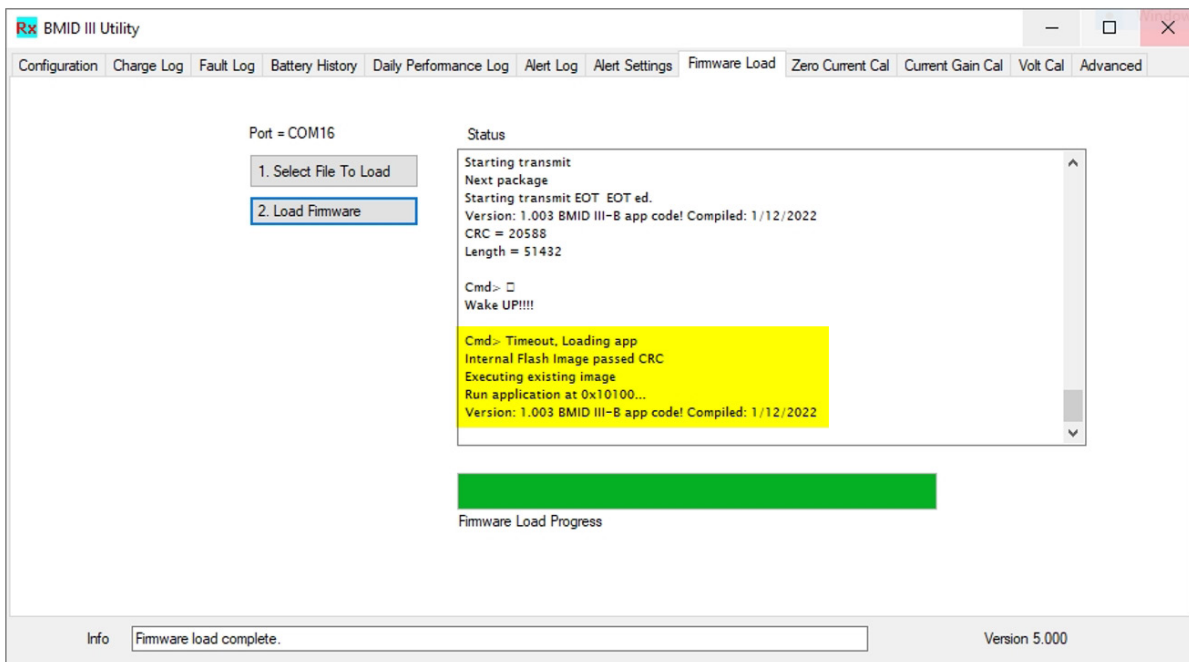




11. Select **Load Firmware**, and wait for “Firmware load complete” in the Info box.



12. Wait another 10 or more seconds for the BMID application to begin running automatically – the BMID connection should still be active.



13. Select the **Configuration** tab and confirm the software version matches what was just loaded. The installation process for the dongle is now complete.

**BMID III Utility**

Configuration | Charge Log | Fault Log | Battery History | Daily Performance Log | Alert Log | Alert Settings | Firmware Load | Zero Current Cal | **Current Gain Cal** | Volt Cal | Advanced

☒ Wireless COM Port COM16 Disconnect CCF9579E023Ep, -39, "WBMD042" Disconnect

Serial Number S/N: SOC02452100042 SIM Card Number 00000000000000000000000000000000

Log 4 of 4 Start Curr Limit 25 A/100Ah

Configuration date 01/01/00@00:05 SOC Limit 100 %

Version when configured 00.00.00.00 EQ Start Day/Time Sun 0 0

Vehicle ID WBMD042 EQ End Day/Time Sun 23 45

Battery ID WBMD042 Max Ah Btw EQ 2500 Ah

Battery Type 1 Exide Tubular Flooded Max days Btw EQ 6 Days

Num Of Cells 24 Time zone Pacific Standard ☒ Auto adjust for DST

Battery Capacity 1000 Ah Daily Call time (24 hr): 0 15

Target V/limit 2440 mV/cell

Temp Foldback 1.5 A/C/100Ah

Internal Resist 120 mOhm/Cl/Ah

Parasitic Curr 250 mA

Key On Detect Curr Sense

Key On Logic Not Applicable

Key On Curr 1000 mA

Run Curr Threshld 3000 mA

Read Active Config Write To BatteryRx Write Config to file Load Config

Read #1 Prev Next Save Config

BatteryRx Clock Tue 01/10/2000 20:11 69°F / 21°C Batt 69°F / 21°C Shunt

PC Clock Friday, 21 January 2022 10:28:43 Set BatteryRx Clock

Info Version 5.000

100% SOC

6.5 A Pack Current (positive = charging)

24.195 V Pack Voltage

Mid-pack Voltage



## Summary of Battery Rx Utility Features

The screenshot shows the 'BMID III Utility' software window. At the top, there is a menu bar with tabs: Configuration, Charge Log, Fault Log, Battery History, Daily Performance Log, Alert Log, Alert Settings, Firmware Load, Zero Current Cal, Current Gain Cal, Volt Cal, and Advanced. Below the menu bar, there are various configuration fields and buttons. The 'Configuration' tab is active. The fields include: Serial Number (S/N: SOC02452100042), Log (4 of 4), Configuration date (01/01/00@00:05), Version when configured (00.00.00.00), Vehicle ID (WBMD042), Battery ID (WBMD042), Battery Type (1 Exide Tubular Flooded), Num Of Cells (24), Battery Capacity (1000 Ah), SIM Card Number (00000000000000000000), Start Curr Limit (25 A/100Ah), SOC Limit (100 %), EQ Start Day/Time (Sun 0 0), EQ End Day/Time (Sun 23 45), Max Ah Btw EQ (2500 Ah), Max days Btw EQ (6 Days), Time zone (Pacific Standard), Auto adjust for DST (checked), Current SW Version (1.003), Target V limit (2440 mV/cell), Temp Foldback (1.5 A/°C/100Ah), Internal Resist (120 mOhm/Cl/Ah), Parasitic Curr (250 mA), Key On Detect (Curr Sense), Key On Logic (Not Applicable), Key On Curr (1000 mA), Run Curr Thrshld (3000 mA). There are buttons for Read Active Config, Write To BatteryRx, Write Config to file, Load Config, Read #1, Prev, Next, and Save Config. At the bottom, there is a status bar showing 'Info: BMID-III Configuration read completed' and 'Version 5.000'.

Battery Utility Interface

Battery Rx Utility tool has features that program, collect information and load firmware to the unit.

1. Configuration - Set the Rx parameters
2. Charge Logs - Download and view the Charge Logs
3. Fault Logs - Download and view charger Fault Logs
4. Battery History - Download and view the History Logs
5. Daily Performance Logs - Download and view the Daily Logs
6. Alert Logs - Download and view the BatteryRx Alert Logs
7. Alert Settings - Set the Rx Alerts thresholds
8. Firmware Load – Load new Firmware
9. Set zero current calibration
10. Calibrate current sensor
11. Calibrate pack and mid-pack voltage sensors
12. Advanced features
  - a. BatteryRx Cloning
  - b. BatteryRx Clear logs
  - c. Generate BRAT data file

## Rx Configuration Programming Instructions Using the Utility

On the Configuration Tab, set the following parameters:

The screenshot shows the 'Configuration' tab of the 'BMID III Utility' software. The interface includes a top menu bar with tabs: Configuration, Charge Log, Fault Log, Battery History, Daily Performance Log, Alert Log, Alert Settings, Firmware Load, Zero Current Cal, Current Gain Cal, Volt Cal, and Advanced. The 'Configuration' tab is active.

At the top, there are fields for 'Wireless' (checked), 'COM Port' (COM16), and a search field containing 'CCF9579E023Ep, -39, "WB MID042"'. Below these are several configuration sections:

- Serial Number:** S/N: SOC02452100042
- Log:** 4 of 4
- Configuration date:** 01/01/00@00:05
- Version when configured:** 00.00.00.00
- Vehicle ID:** WB MID042
- Battery ID:** WB MID042
- Battery Type:** 1 Exide Tubular Flooded
- Num Of Cells:** 24
- Battery Capacity:** 1000 Ah
- SIM Card Number:** 00000000000000000000
- Start Curr Limit:** 25 A/100Ah
- SOC Limit:** 100 %
- EQ Start Day/Time:** Sun 0 0
- EQ End Day/Time:** Sun 23 45
- Max Ah Btw EQ:** 2500 Ah
- Max days Btw EQ:** 6 Days
- Time zone:** Pacific Standard
- Daily Call time (24 hr):** 0 15
- Auto adjust for DST:** checked
- Current SW Version:** 1.003
- Target V limit:** 2440 mV/cell
- Temp Foldback:** 1.5 A°/C/100Ah
- Internal Resist:** 120 mOhm/CI/Ah
- Parasitic Curr:** 250 mA
- Key On Detect:** Curr Sense
- Key On Logic:** Not Applicable
- Key On Curr:** 1000 mA
- Run Curr Thrshld:** 3000 mA

Below the configuration fields are several buttons: 'Read Active Config', 'Write To BatteryRx', 'Write Config to file', 'Load Config', 'Read #1', 'Prev', 'Next', and 'Save Config'.

At the bottom, there are fields for 'BatteryRx Clock' (Tue 01/10/2000 20:11 69°F / 21°C Batt 69°F / 21°C Shunt) and 'PC Clock' (Friday, 21 January 2022 10:28:43). A 'Set BatteryRx Clock' button is also present.

The status bar at the bottom shows 'Info: BMID-III Configuration read completed' and 'Version 5.000'.

BMID III Programming Utility

**See the next page for the parameters.**

ITEM	What to Enter
1. Vehicle ID:	Enter an 8-Character (Alphanumeric) Vehicle ID #.
2. Battery ID:	Enter an 8-Character (Alphanumeric) Battery ID #.
3. Battery Type:	Choose the battery type (2500 charger has 3 optional battery types).
4. Battery Number of Cells:	Enter the number of cells of the battery.
5. Battery Capacity:	Enter the battery capacity.
6. Start Current Limit:	Recommend leaving default value (40A/100Ahs).
7. SOC Limit:	Recommend leaving default value (100%).
8. EQ Start Day/Time:	Enter the Equalization Start Day and Time.
9. EQ End Day/Time:	Enter the Equalization End Day and Time.
10. Max Ah Btw EQ:	Enter dash lines (-) at EQ Start Day to activate this option.
11. Max days Btw EQ:	Enter dash lines (-) at EQ Start Day to activate this option.
12. Time Zone:	Choose the Time Zone.
13. Daily Call Time (24 hr):	Set the Call Time (Recommended 00:15).
14. Target V Limit:	Leave as default (3000 mv/cell).
15. Temperature Foldback:	Recommend leaving default value (1.5 A/C/100Ahs).
16. Internal Resist:	Leave as default (120 mOhm).
17. Parasitic Current:	Leave as default (250 mA).
18. Key on Detect:	Leave as default (Curr Sense).
19. Key on Logic:	Leave as default (Not Applicable).
20. Key On Curr:	Leave as default (500 mA).
21. Run Curr Thrshld:	Leave as default (2000 mA).
22. Set Clock:	Click "Set Clock" - Syncs the Rx Unit time to the PC Clock.
23. Select <b>Write to BatteryRx</b> to store the new configuration.	

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