



PRE-REQUIREMENTS

To perform this procedure, you will need the following:

1. Windows Laptop Computer
2. USB CANtool
 - a. You may request this tool by submitting a ticket on the support section at www.fortresspower.com/support



3. Download the firmware and instructions before arriving to the site. You may download these files at www.fortresspower.com/firmware. Try to consolidate your files under one folder for ease of access. **Extract all files.**

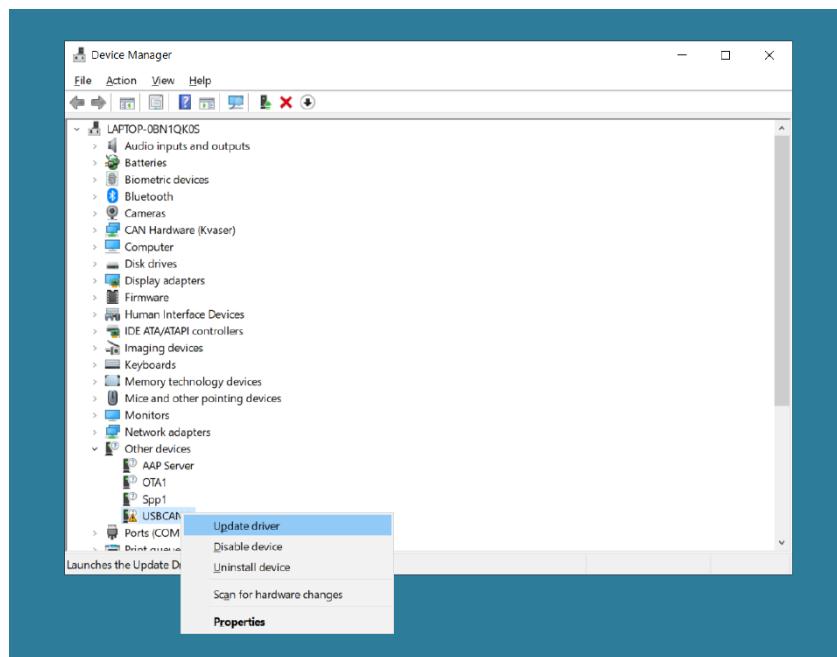
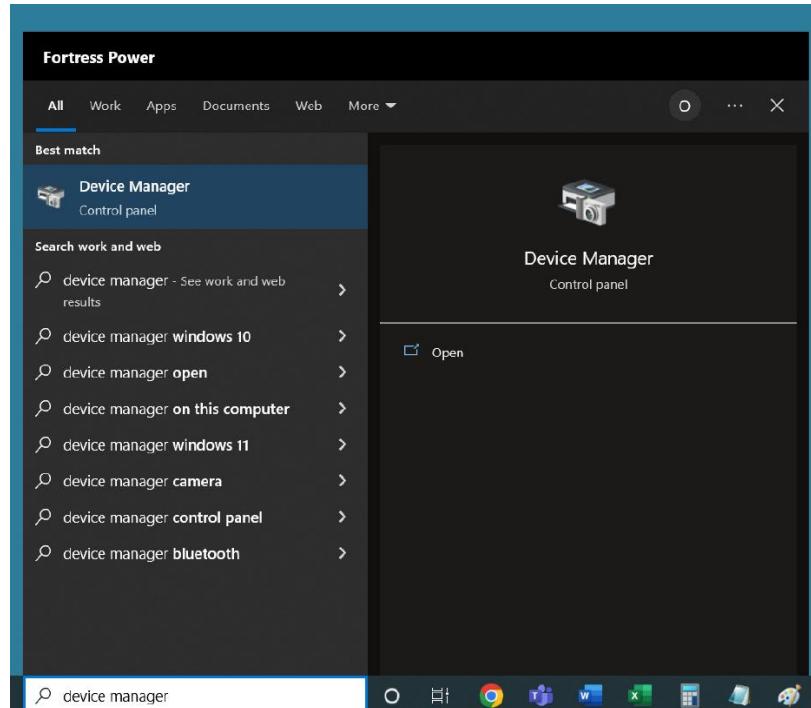
The screenshot shows the Fortress Power website with a dark background featuring a residential street scene. At the top, there is a navigation bar with links for Product Information, Dealer Application, Where to Buy, Contact Technical Support, a search bar, and a language selector (English). Below the navigation is a secondary menu with links for PRODUCTS, SOLUTIONS, INSTALLERS, TRAINING, SUPPORT, and ABOUT. A prominent green banner at the top of the main content area states 'NEW: 30 Year Extended Warranty for Residential Customers! Click for Details!'. On the right side of the main content area, there is a 'Select Product' dropdown menu set to 'eForce' with a 'Go!' button. Below this, there is a table of download links:

Type	Version	Product	Last modified	Download
Software	BMS Software Update	eForce	18-11-2025	Download
PDF	BMS Firmware Release Notes	eForce	02-06-2025	Download
Driver	CANtool Drivers	eForce	18-02-2025	Download
Firmware	Firmware Update	eForce	02-06-2025	Download
PDF	README Disclaimer	eForce	18-02-2025	Download



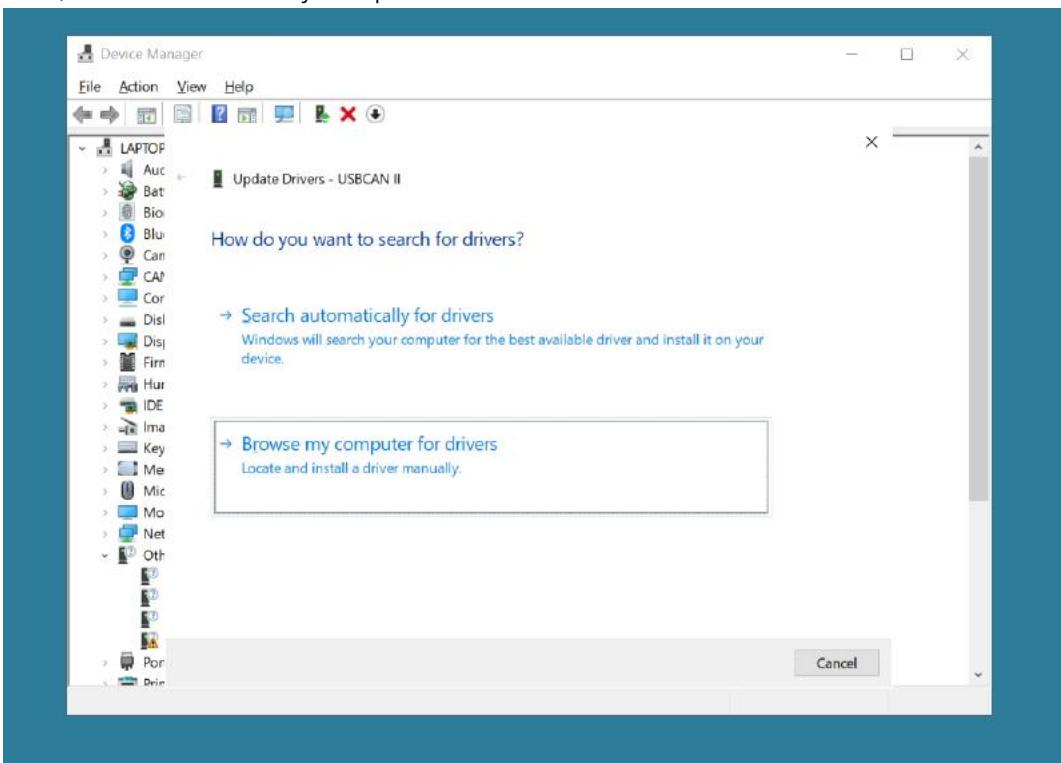
INSTALLING THE DRIVERS FOR THE CANTOOL (USBCAN)

1. Connect the USB cable of the CANtool (USBCAN) to your computer and the CANtool by itself.
2. Click on the "Start" icon (looks like a Windows logo) and type in "device manager". Above the search-bar, click on "Device Manager".
3. A window similar to the one shown below will open and one of the items of the list will be "USBCAN II" with an indent on the left. Right-click on this "USBCAN II" and from the drop-down click on "Update driver".

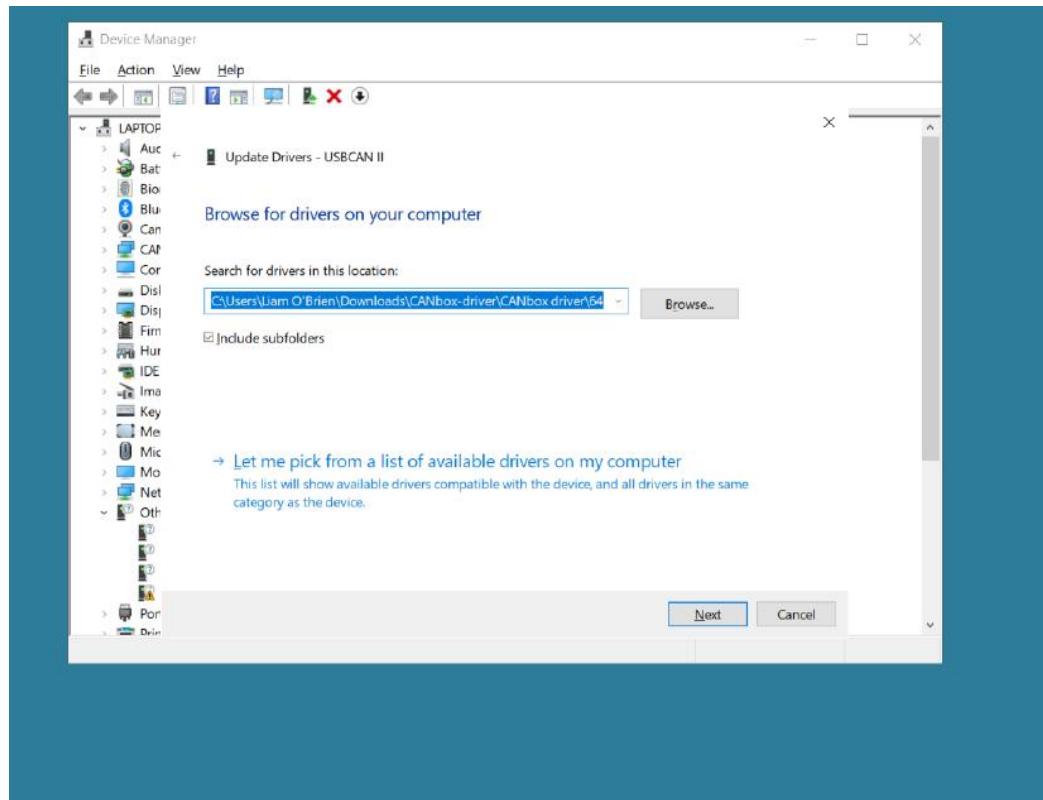




4. Next, click on "Browse my computer for drivers".

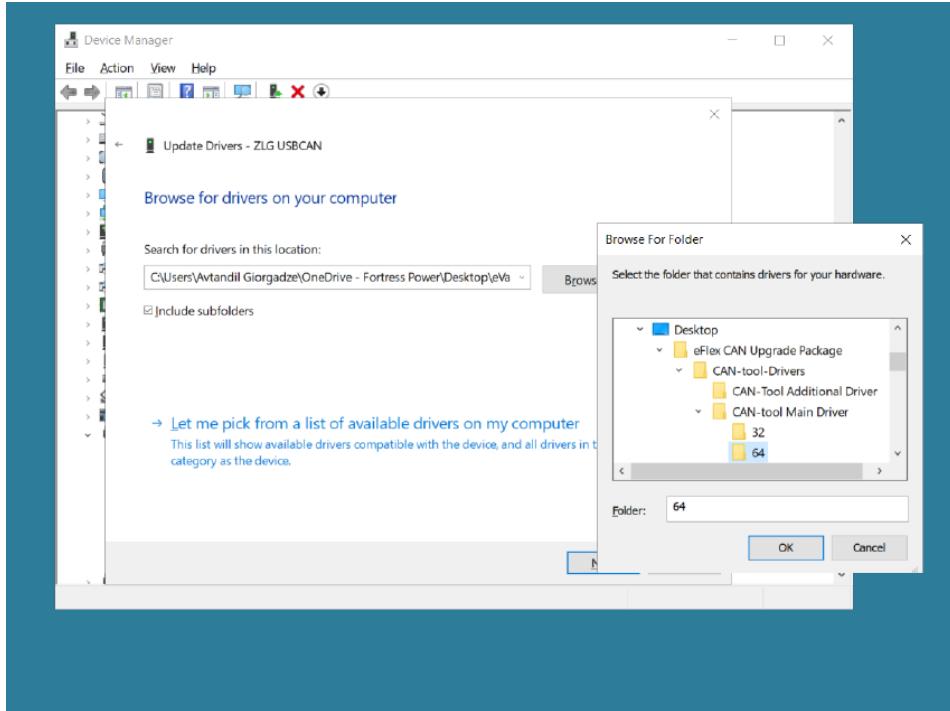


5. Now, click on "Browse..."

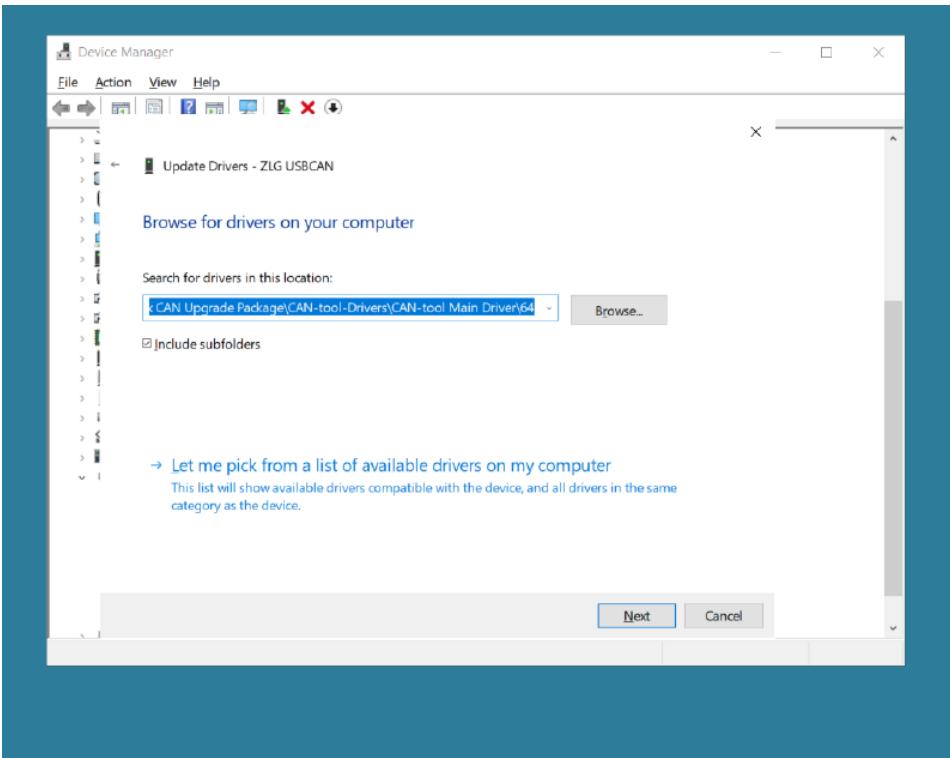




6. Then, navigate to the "eForce CAN Upgrade Package"(where you consolidated and from there navigate as follows: "eForce CAN Upgrade Package" >>> "CAN-tool Drivers" >>> "CAN-tool Main Driver" >>> "64". Once "64" is selected, click "OK".

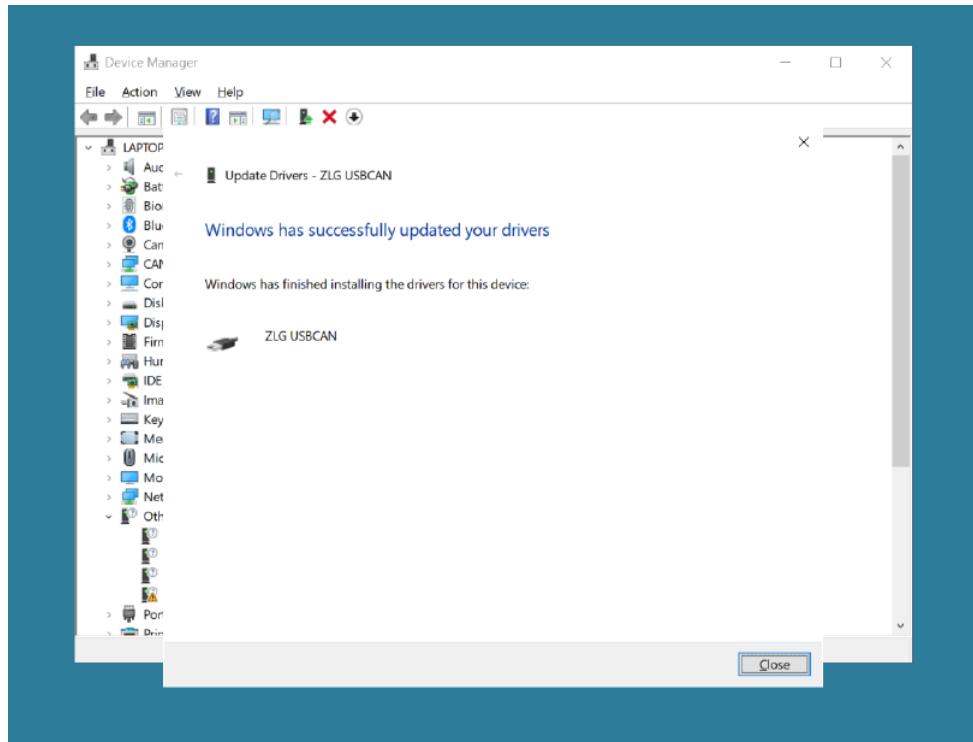


7. Then, click "Next".

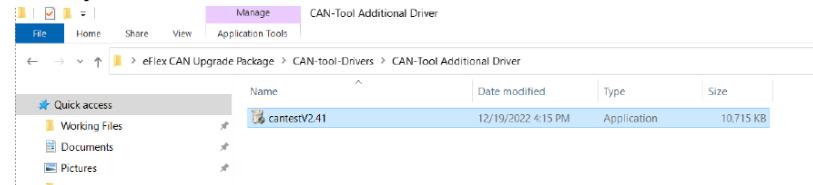




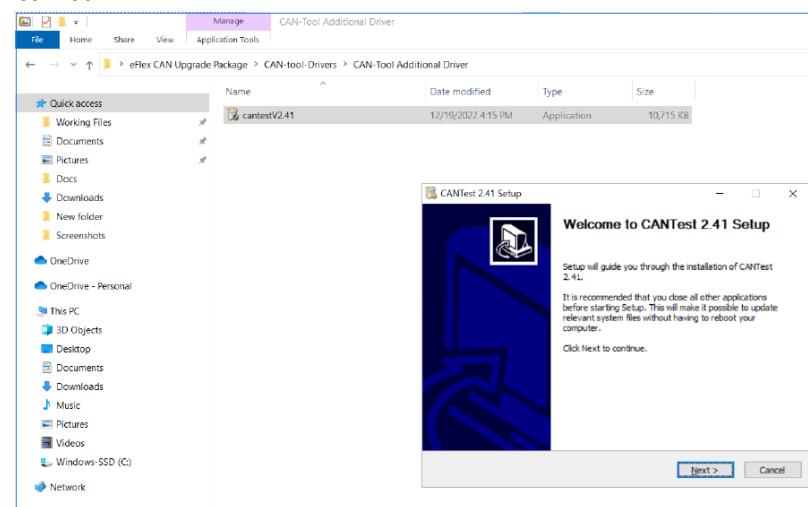
8. You will see the success message as shown below. Click "Close" and close the "Device Manager" window.



9. It's time to install an additional document. To do so, first open "eForce CAN Upgrade Package" folder. Then, open the "CAN-tool Drivers" folder and afterwards open the "CAN-tool Additional Driver" folder. Now you can see a file titled "cantestV2.41".

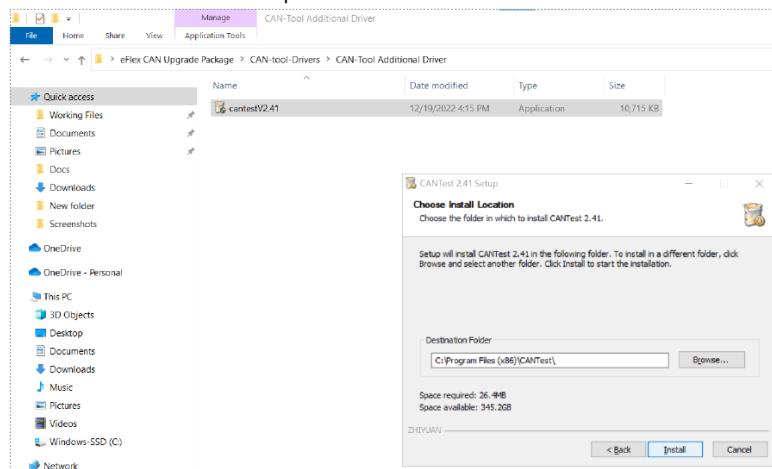


10. Double-click "cantestV2.41"

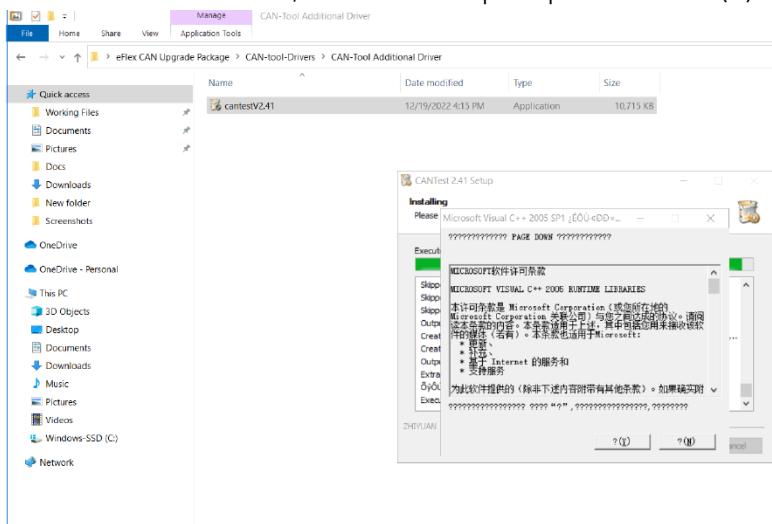




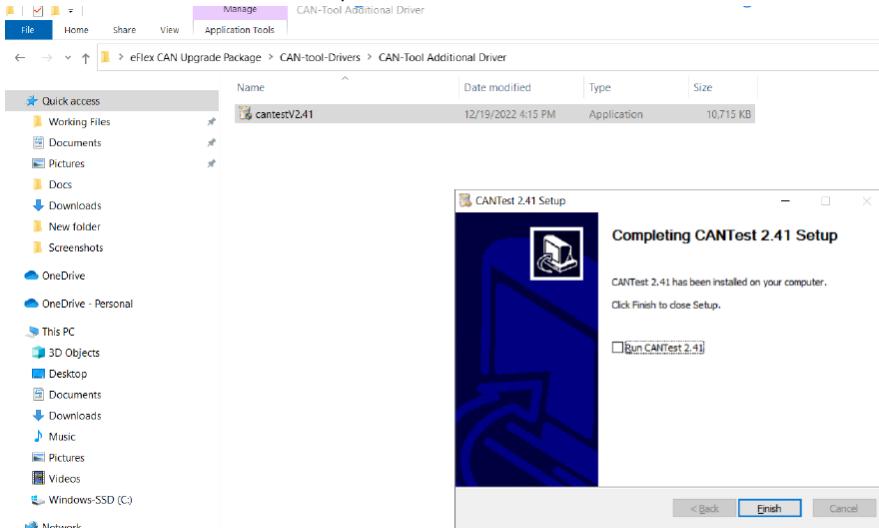
11. Then click "Install" and the installation process will start.



12. Almost at the end of the installation, there will be a prompt. Click on "? (Y)".



13. Once the installation is completed, uncheck "Run CANTest 2.41" and click "Finish".



14. Go back to folder "eFlex CAN Upgrade Package".

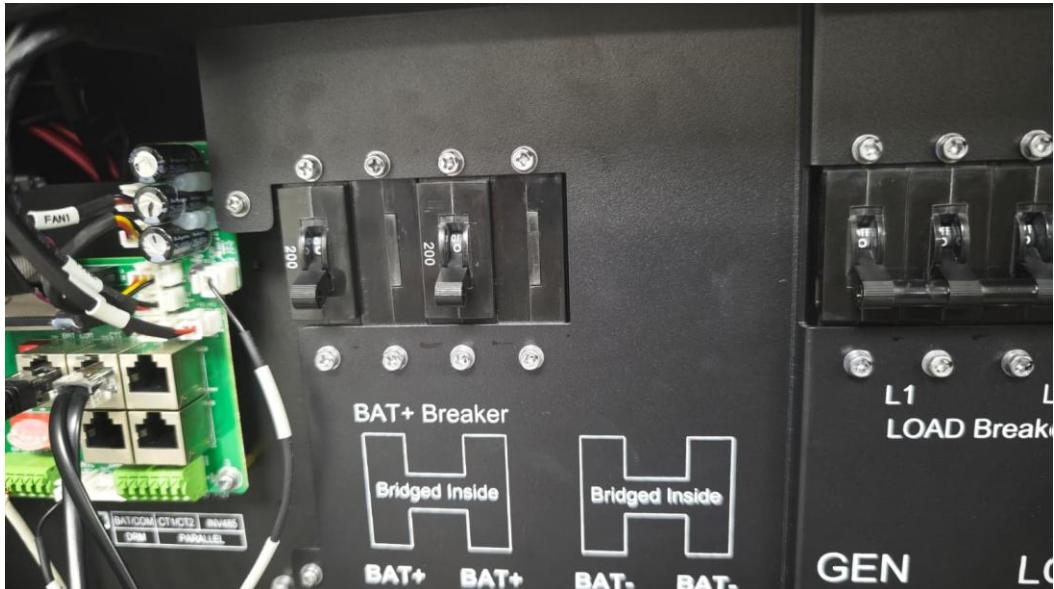


PROCEDURE

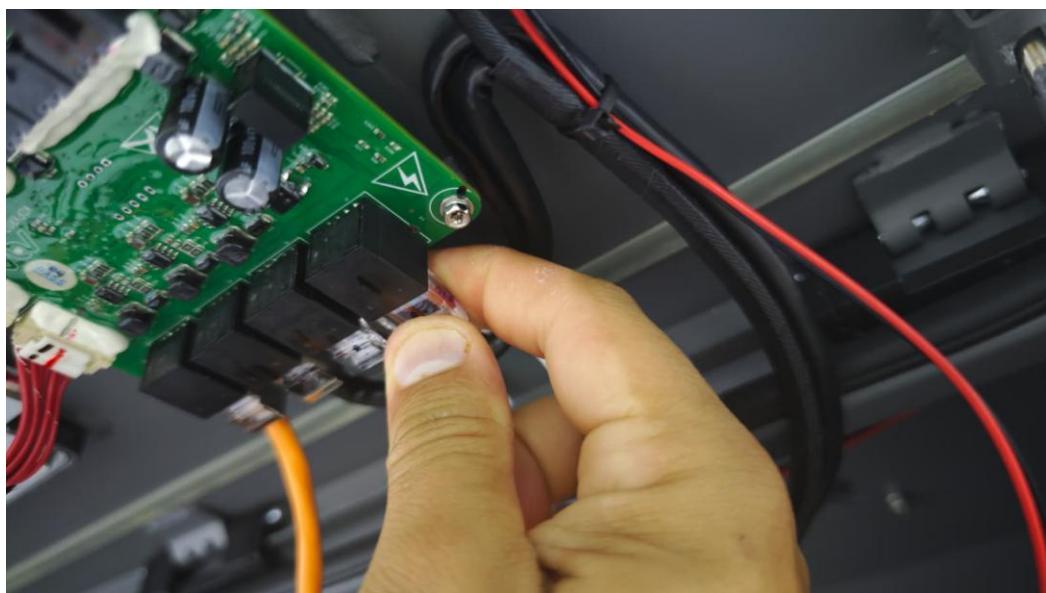
There must be no current flow to or from any battery in the system during the firmware update process. It is a good idea to have battery breakers on all inverters in the system in the 'OFF' position.

Firmware must be updated on one battery at a time. It is not necessary to disconnect battery to inverter cable.

1. Make sure that both cables that came with the CANtool (USBCAN) are connected to the CANtool. Then, make sure that the USB cable is connected to the computer and that the ethernet cable is connected to either of the two ethernet ports.
2. Turn off the inverter battery breakers. In off-grid applications, this will shut down the loads.

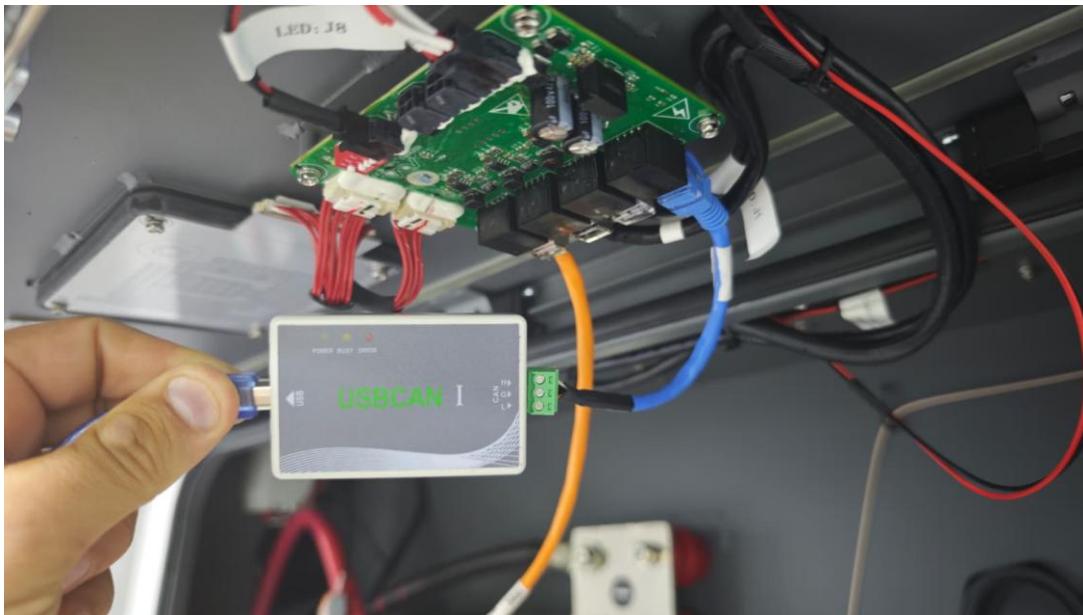


3. Remove the terminator on the eWay,





4. Plug the CAN tool. Do this while the battery is On.



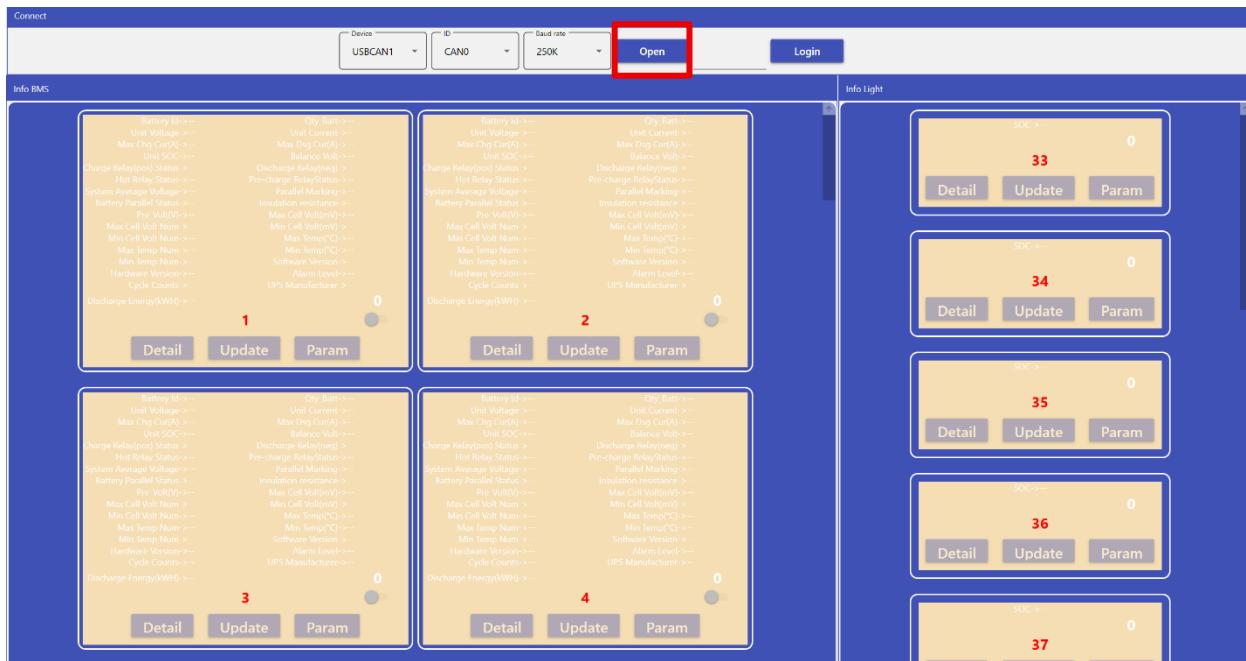
EFORCE BMS FIRMWARE UPDATE

1. Open the Upper Computer Software named **BMS_Monitor_SP_KR**

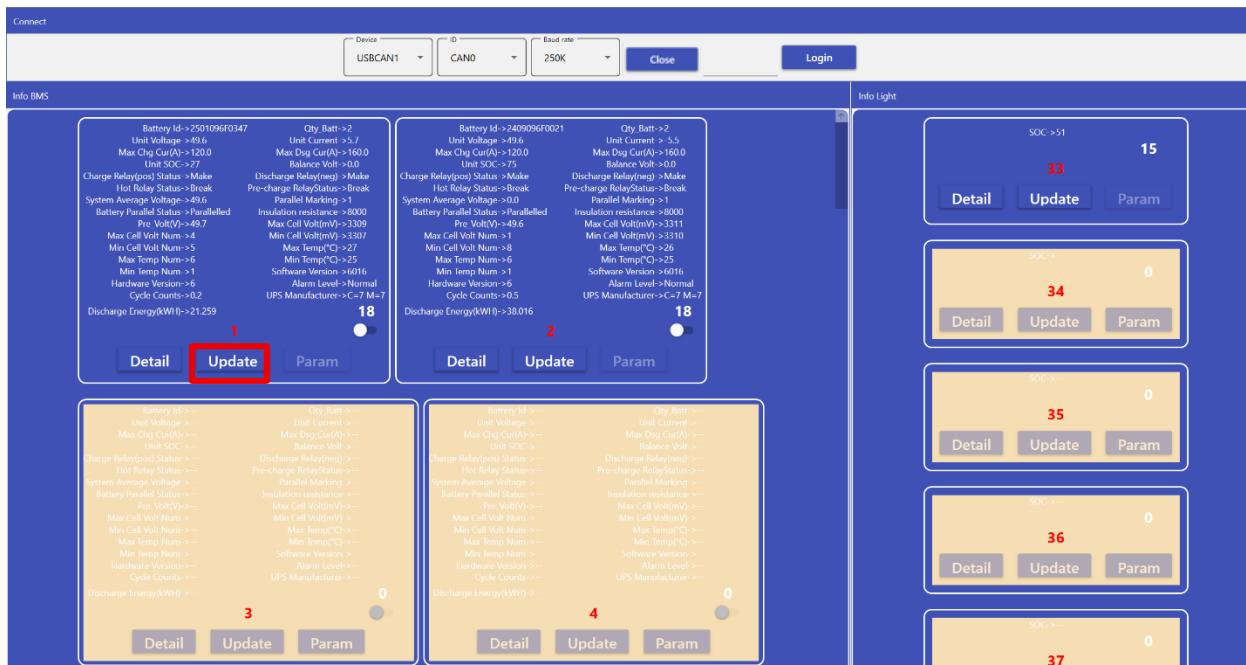
Name	Date modified	Type	Size
A long time ago			
printer.sdk.dll	4/21/2025 5:15 AM	Application extension	292 KB
System.IO.Ports.dll	4/21/2025 5:15 AM	Application extension	38 KB
Prism.dll	4/21/2025 5:15 AM	Application extension	90 KB
Prism.Dryloc.Wpf.dll	4/21/2025 5:15 AM	Application extension	27 KB
Prism.Wpf.dll	4/21/2025 5:15 AM	Application extension	133 KB
Microsoft.Extensions.DependencyInjection.dll	4/21/2025 5:15 AM	Application extension	93 KB
Microsoft.Xaml.Behaviors.dll	4/21/2025 5:15 AM	Application extension	142 KB
MaterialDesignThemes.Wpf.dll	4/21/2025 5:15 AM	Application extension	9,687 KB
Microsoft.Extensions.DependencyInjection.Abst...	4/21/2025 5:15 AM	Application extension	62 KB
MaterialDesignColors.dll	4/21/2025 5:15 AM	Application extension	310 KB
ControlCAN.dll	4/21/2025 5:15 AM	Application extension	52 KB
Dryloc.dll	4/21/2025 5:15 AM	Application extension	556 KB
BMS_Monitor_SP_KR.pdb	4/21/2025 5:15 AM	PDB File	54 KB
BMS_Monitor_SP_KR.runtimeconfig.json	4/21/2025 5:15 AM	JSON File	1 KB
Configuration	4/21/2025 5:15 AM	Microsoft Edge HTM...	1 KB
BMS_Monitor_SP_KR.deps.json	4/21/2025 5:15 AM	JSON File	17 KB
BMS_Monitor_SP_KR.dll	4/21/2025 5:15 AM	Application extension	175 KB
BMS_Monitor_SP_KR	4/21/2025 5:15 AM	Application	115 KB
record	7/10/2025 2:31 AM	File folder	
runtimes	4/21/2025 5:16 AM	File folder	
kerneldlls	4/21/2025 5:15 AM	File folder	
XML	4/21/2025 5:15 AM	File folder	
Image	4/21/2025 5:15 AM	File folder	



2. Once the software is opened, click the **Open** button.



3. Make sure the battery data populates as shown in the image below. If it does not, double-check that the cables are properly connected to the CANtool. **Pin Orange** goes to port **L**, **Pin Orange white** goes to **H**. Next Click on the **Update** button



4. Click **SelectFile** and choose the downloaded BMS firmware file.



Qty_Batt->2
Unit Current->5.7
Max Dsg Cur(A)->160.0
Balance Volt->0.0
Charge Relay(neg)->Make
Charge RelayStatus->Break
Parallel Marking->1
atation resistance->
ax Cell Volt(mV)->
in Cell Volt(mV)->
Max Temp(°C)->
Min Temp(°C)->
oftware Version->
Alarm Level->
PS Manufacturer->

Battery Id->2409096F0021
Unit Voltage->49.6
Max Chg Cur(A)->120.0
Unit SOC->75
Charge Relay(pos) Status->Make
Hot Relay Status->Break
System Average Voltage->0.0
Qty_Batt->2
Unit Current->5.5
Max Dsg Cur(A)->160.0
Balance Volt->0.0
Discharge Relay(neg)->Make
Pre-charge RelayStatus->Break
Parallel Marking->1
SOC->51
33
Detail Update

Param

Qty_Batt
Unit Current
Max Dsg Cur(A)
Balance Volt
charge Relay(neg)
charge RelayStatus
Parallel Marking
ulation resistance
Max Cell Volt(mV)
Min Cell Volt(mV)
Max Temp(°C)
Min Temp(°C)->--
oftware Version->--
Alarm Level->--
PS Manufacturer->--

File **SelectFile**

schedule 0

Device LECU1

Update

0 0 Discharge Energy(kWh)->--

Min Temp(°C)->--
Software Version->--
Alarm Level->--
UPS Manufacturer->--

SOC->--
34
Detail Update

SOC->--
35
Detail Update

SOC->--
36
Detail Update

Please select file

Downloads

Organize New folder

Name	Date modified	Type	Size
SW_KR02_15T06_V6016_20250224_1 (2).bin	1/12/2026 11:53 AM	BIN File	111 KB
SW_KR02_LED_20241111_V9.1.bin	1/12/2026 11:48 AM	BIN File	14 KB
SW_KR02_LED_20250523_V11 (1).bin	1/12/2026 11:47 AM	BIN File	18 KB
BMS_Software_V1.61-1 (3)	1/12/2026 12:21 PM	File folder	
BMS_Monitor_SP_KR V1.3 (6)	1/12/2026 12:18 PM	File folder	
BMS_Monitor_SP_KR V1.3 (5)	1/12/2026 12:16 PM	File folder	

Yesterday

Last week

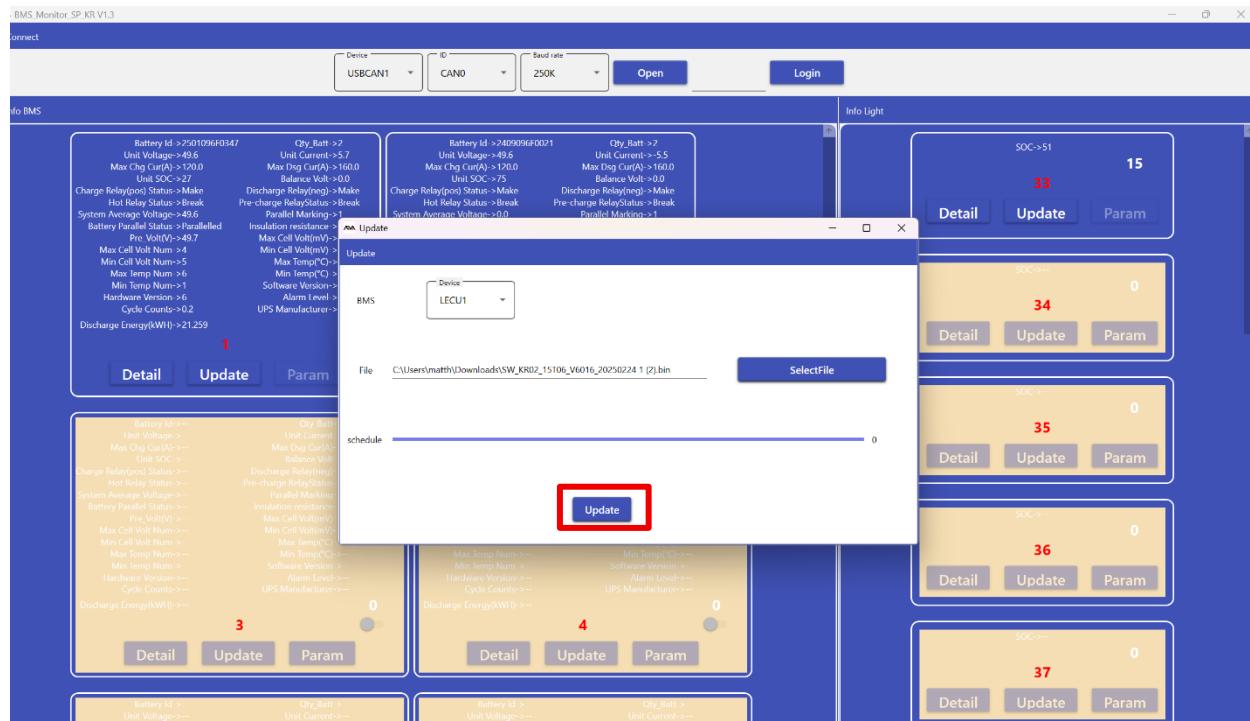
Earlier this month

Last month

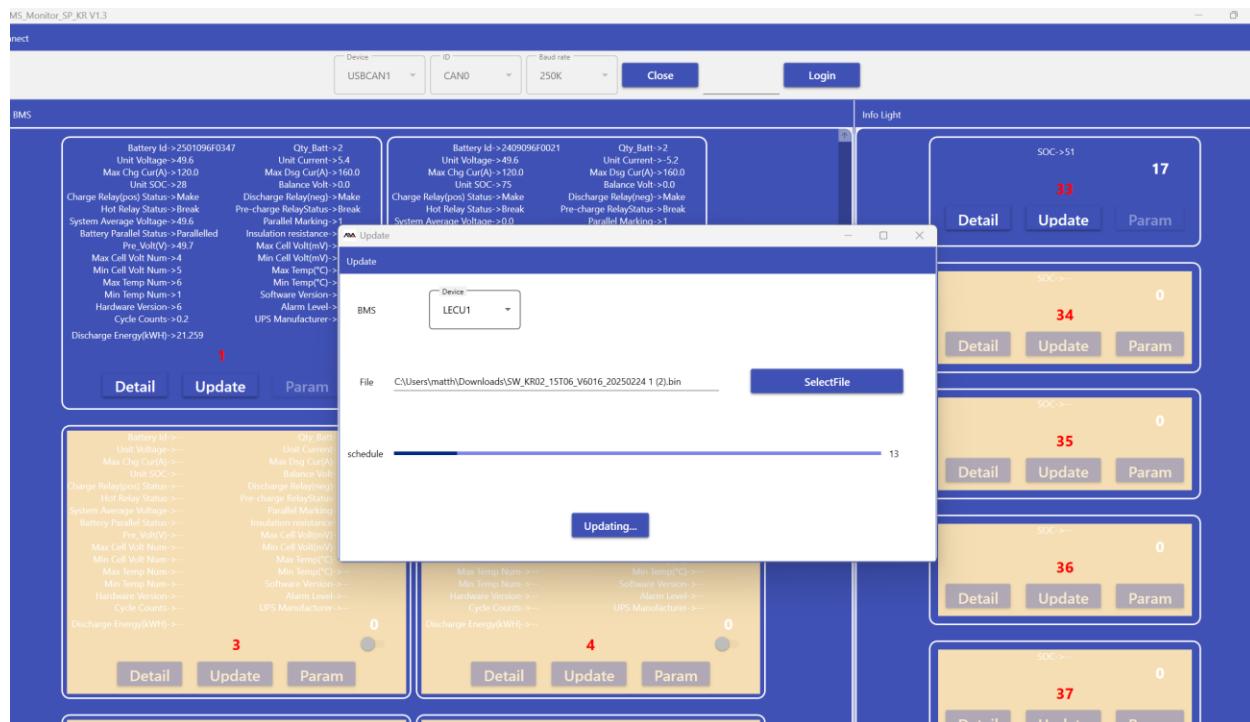
A long time ago

15
Param
0
Param
0
Param
0
Param

5. Click on **Update**



6. Make sure the update is progressing until a message "**download successfully**" reports once its finished.



7. Once the firmware has finished and displayed the download successfully message, remove the Can Tool and reboot the system.



1

2

3

4

17

33

34

35

36

37

LED FIRMWARE UPDATE

⚠ Before Proceeding with this procedure, you must update the BMS firmware first. Failure to do so may result in a bricked system.

1. Select **Update** on the **Info Light** section

1

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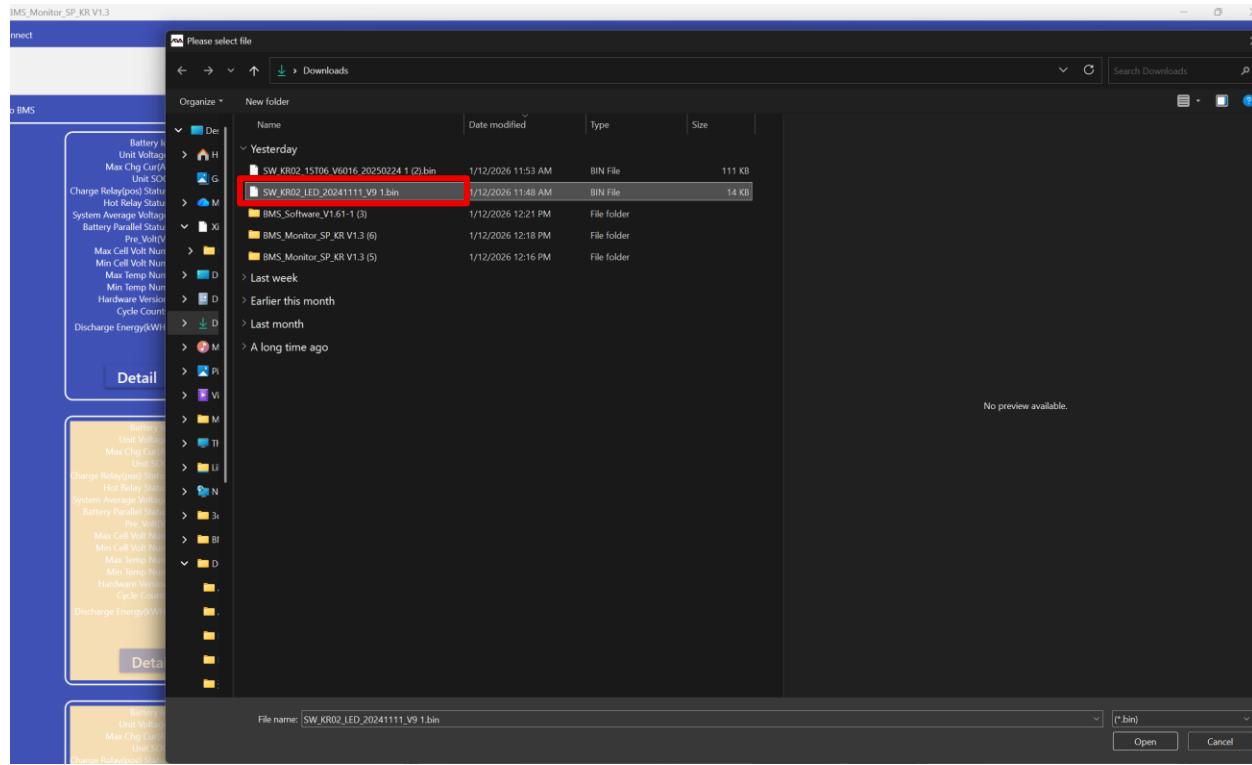
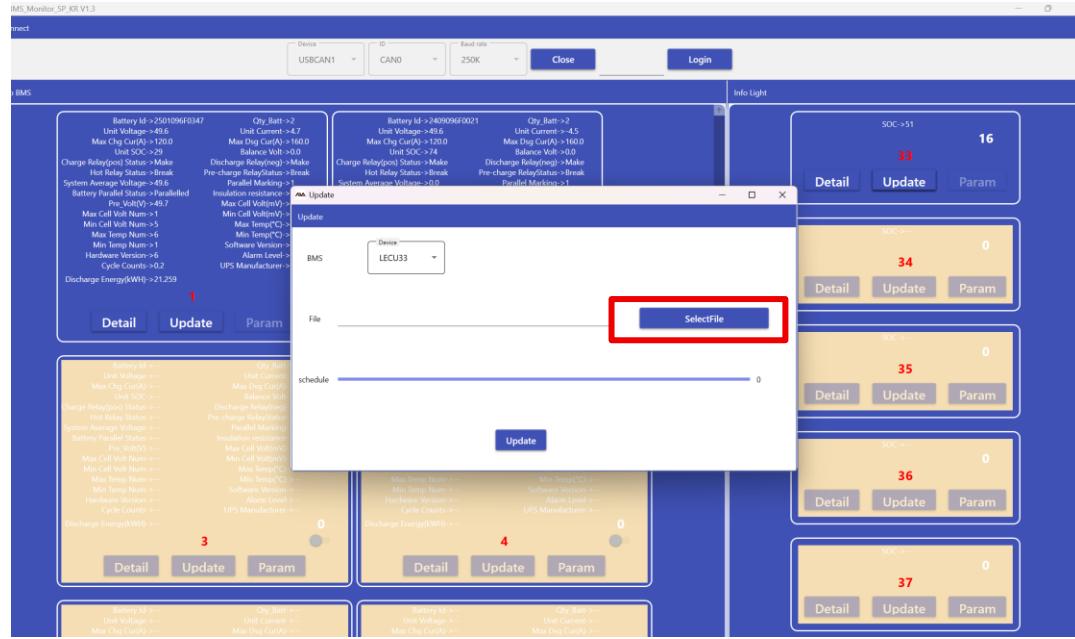
35

36

37

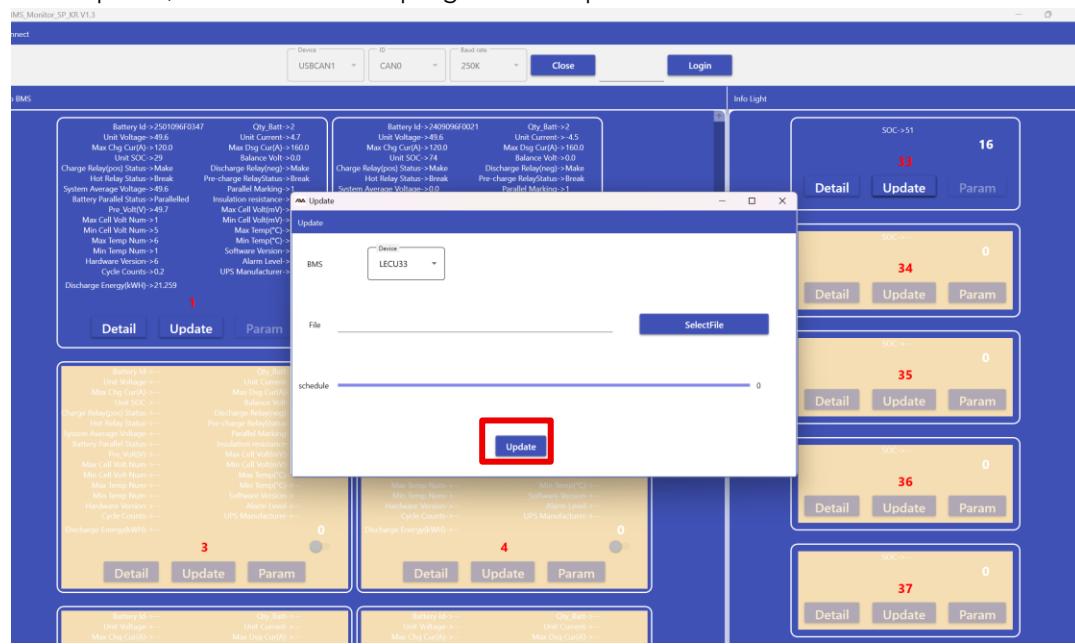


2. Next, click on SelectFile and select the LCD bin file. Do not Update using the BMS firmware as this will brick the system.





3. Click Update, there should be a progress bar. Update takes less than 5 seconds.



4. Once firmware has completed, remove the CANTool and reboot the battery.

