Eco Battery

CONTROLLER INTEGRATION GUIDE

EB Power App

User Guide

BEFORE YOU BEGIN



CONSUMER ALERT: Your AC Powertrain **must be registered within 60 days of purchase** to activate the full duration of the warranty. Products not registered within 60 days of purchase will be covered by a 1-year limited warranty.

TIP: The serial numbers on components are easier to read when not installed.

www.ecobattery.com/register

CONTENTS

Warning 4

Downloading The App 5

Updating The App 6

Connecting To An EB Power Controller 7

Connecting w/ The Tech Tool 8

Local Wi-Fi Connection 9

Setting Up The App 10

Selecting Your Cart 13

Calibration 19

Monitoring 23

Need More Help? 25

WARNING



Working with batteries can be dangerous. Safety gear such as protective eyewear, insulated gloves, and insulated tools are required for safe installation.

We recommend using glasses and other personal protective equipment during the install. When working with lead-acid batteries, it is highly recommended to use rubber gloves to prevent contact with acid and other harmful chemicals.

This guide is not meant to give an untrained person enough knowledge to competently work with lithium batteries or electric vehicle systems. If you do not fully understand this guide, please stop and seek professional installation.

Damage to the battery, system components, or property due to incorrect or improper installation is not covered by the warranty. Do not short circuit or connect with reverse polarity, damage from improper connections is not covered by warranty.

When working with electrical components take extra care to avoid contact between tools, battery terminals and other electrical components that would lead to damage or injury.

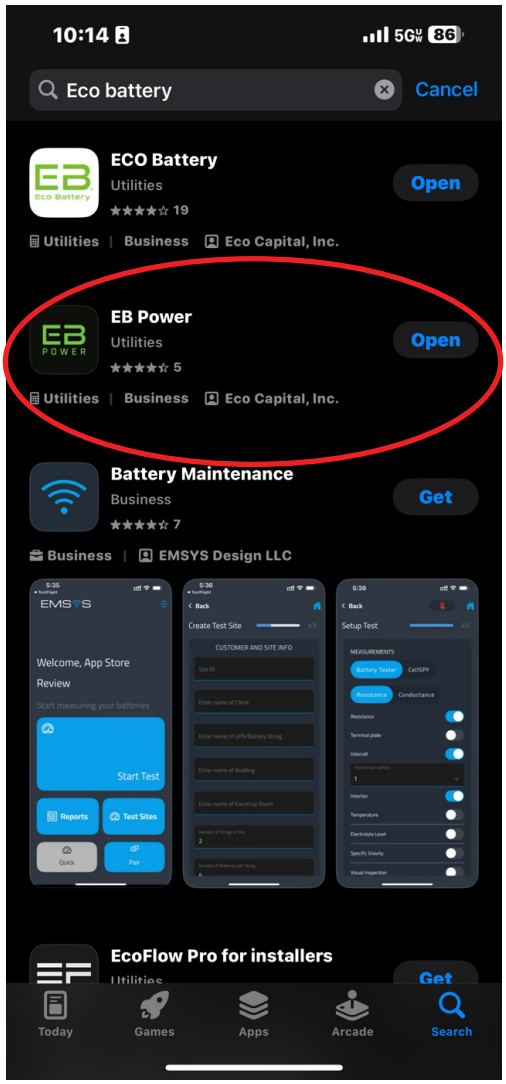
IMPORTANT: Inspect your new products for any damage that may have occurred during shipping. If there are any visible signs of damage, **DO NOT CONTINUE!**
Contact your dealer or Eco Battery.

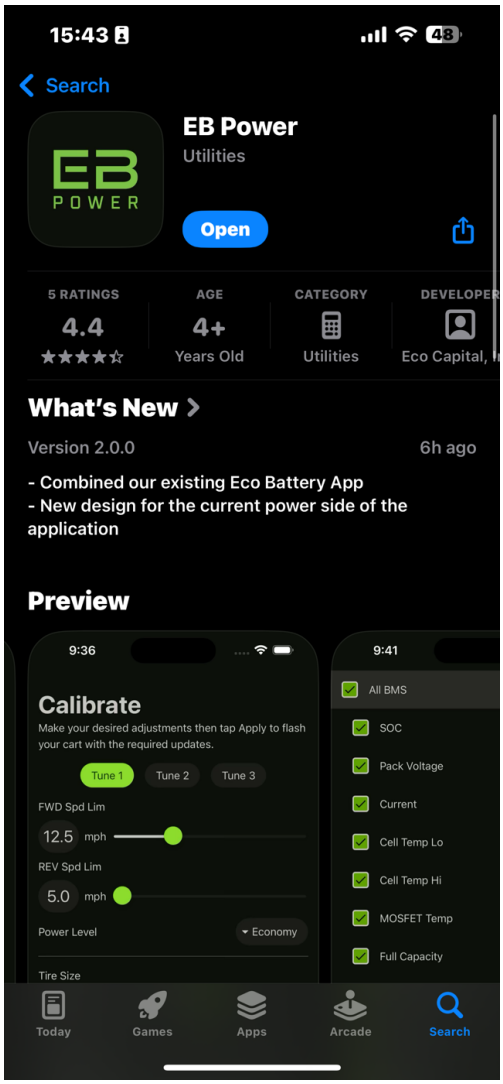
DOWNLOADING THE APP

Download the EB Power App from the App Store. Make sure you select the Green logo/Black background version.

This multifunction app lets you control your EB Power AC Controller, monitor and manage your Eco Battery as well as connect to the EB Power Tech Tool (if applicable).

Once downloaded, open the app on your smart device, and you will be guided to the App Hub.





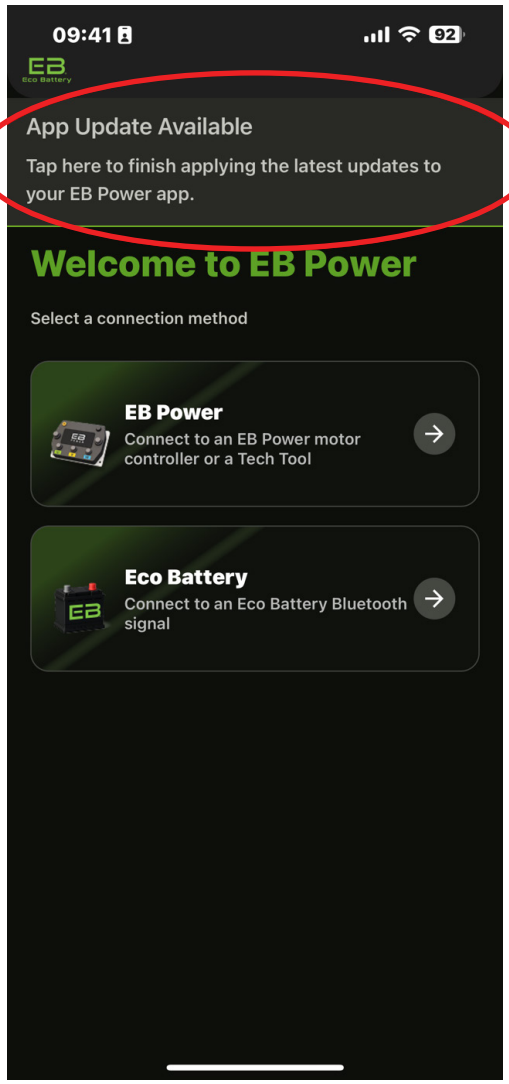
UPDATING THE APP

To set up and manage your EB Power Controller, select the EB Power option on the App Hub page. (If using a Tech Tool, select the EB Power option as well)

To manage your Eco Battery, select the Eco Battery option on the App Hub page.

If an App update is available, you will receive a banner at the top of the Hub page. Simply tap on the banner to start the update process. These updates improve functionality and fix potential issues.

IMPORTANT: Your new Eco Battery AC Controller uses Wi-Fi for communication. Accepting Wi-Fi and location services will allow the user to see their controller in future steps.



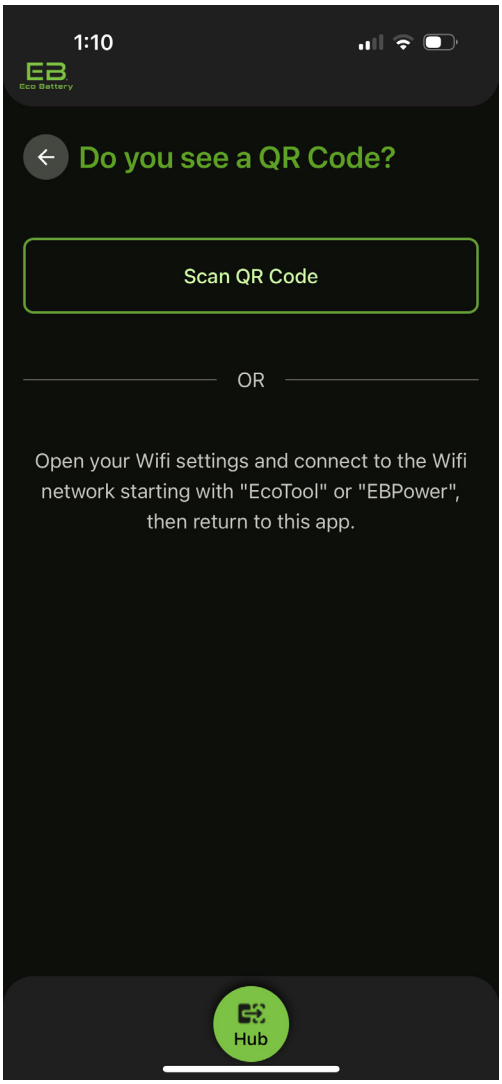
CONNECTING TO AN EB POWER CONTROLLER

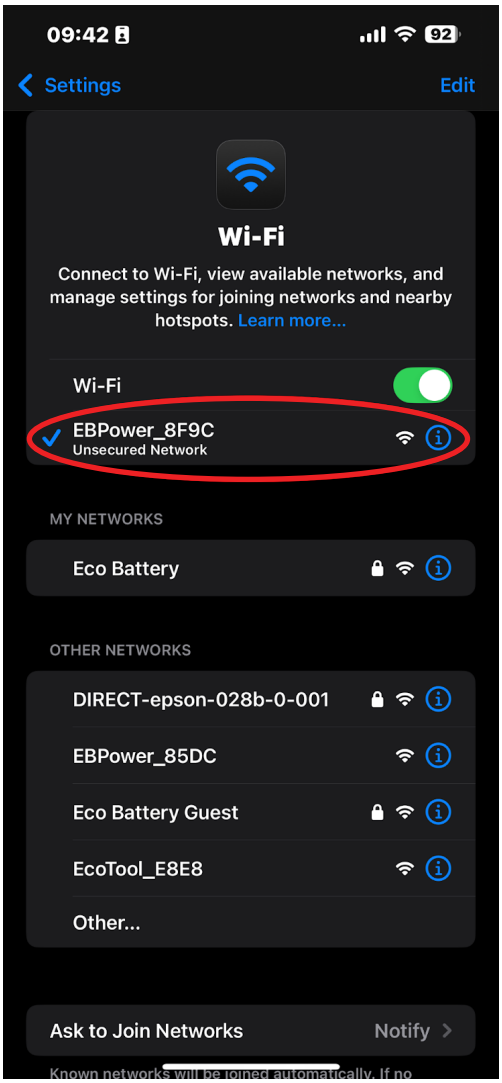
To connect to the EB Power controller there are two options:

1. **Wi-Fi (Recommended):** Open general Wi-Fi settings on your smart device. Find the Wi-Fi network named “EBPower_xxxx”. Connect to that network and go back to the EB Power App.

2. **QR Code:** Code is located on the controller.

NOTE: This page is for those connecting to an EB Power Controller. If you are using a Tech Tool to connect to another controller, skip to page 8.





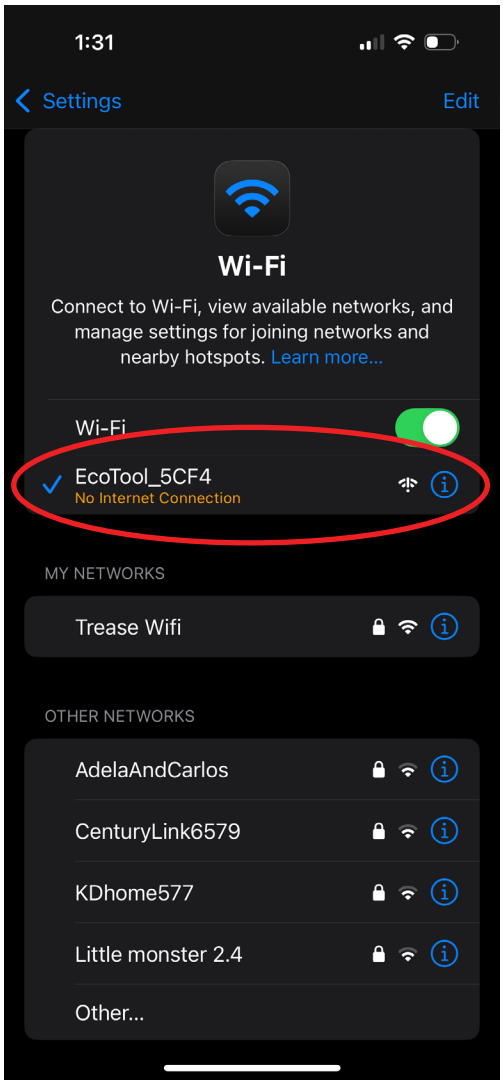
CONNECTING W/ THE TECH TOOL

If the cart does not have an EB Power Controller and you are installing an Eco Battery into a factory cart with another controller, you will need an EB Power Tech Tool to physically connect to your non-EB Power controller. (Follow the EB Power Tech Tool Guide in the Tech Tool case)

To connect to the EB Power Tech tool there are two options:

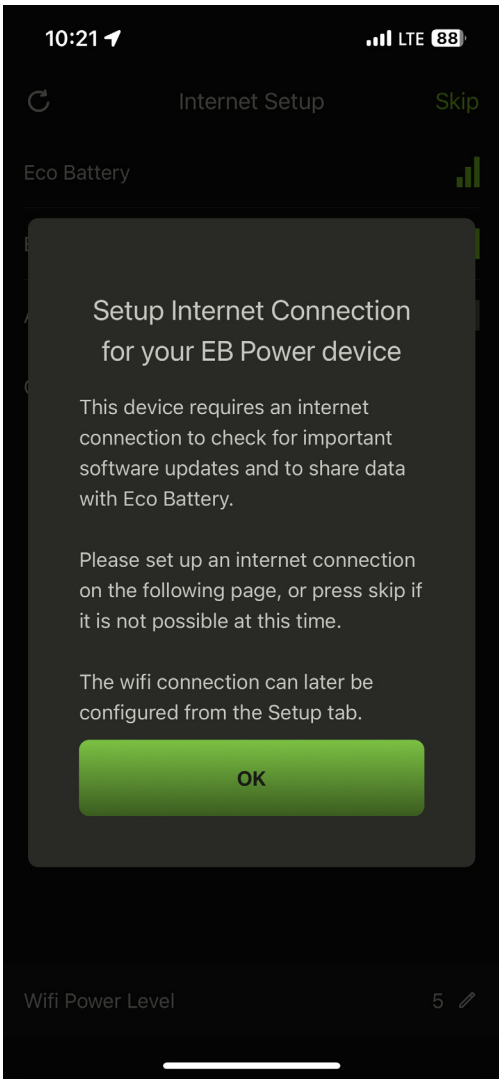
1. **Wi-Fi (recommended):** Open your device's Wi-Fi settings and find the Wi-Fi Network with an "EBTool_xxxx" option. Connect to that network and go back to the EB Power App.

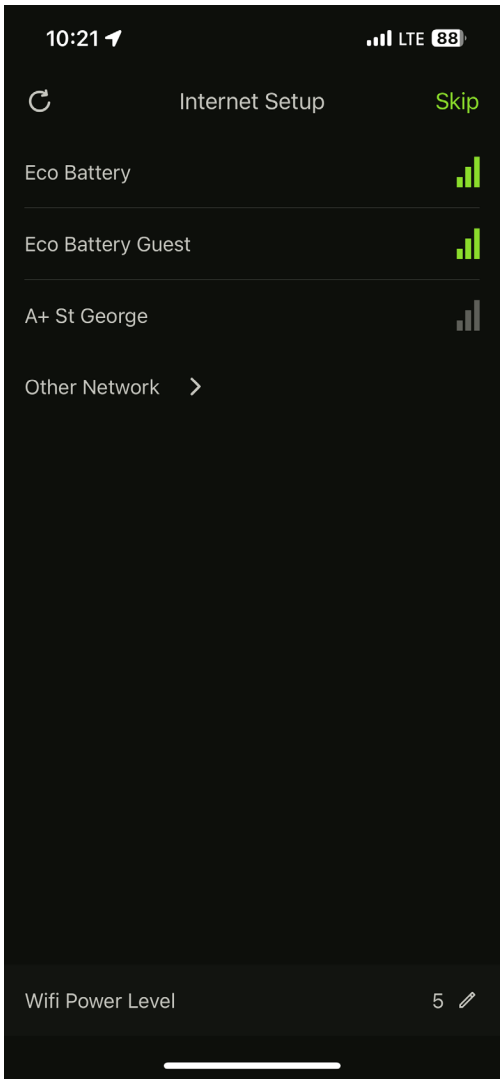
2. **QR code:** Code is located on the back of the Tech Tool.

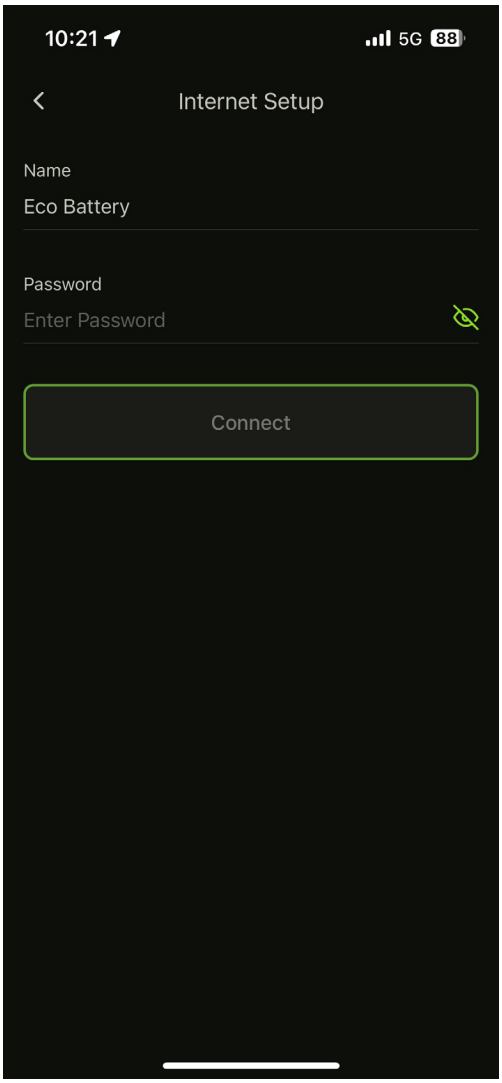


LOCAL WI-FI CONNECTION

Connect your EB Controller to your local WiFi to have the ability to find the latest Firmware updates.





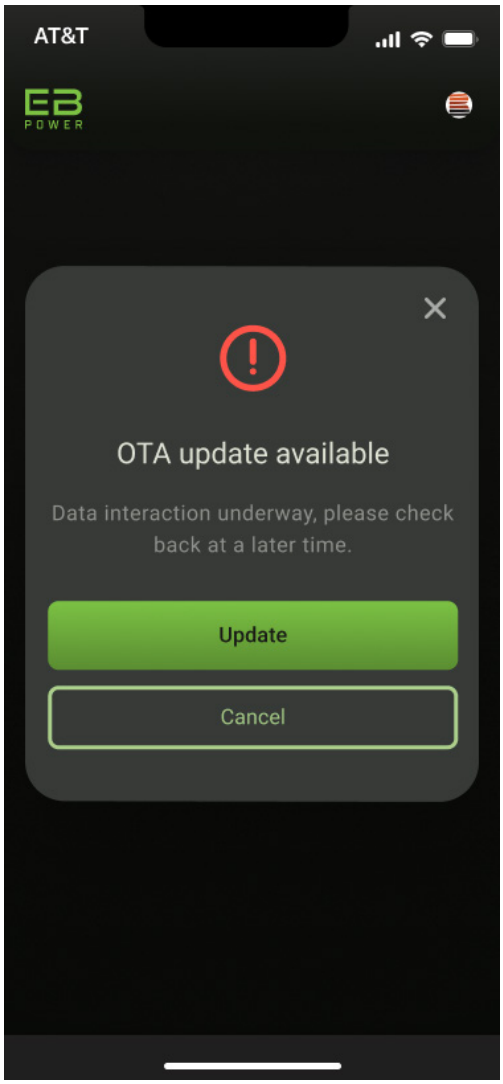


SETTING UP THE APP

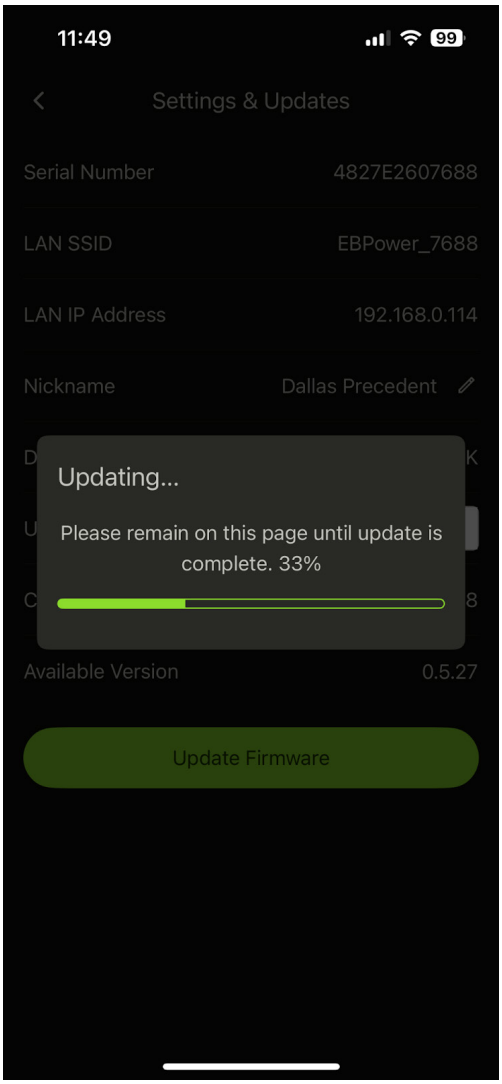
Once the controller or Tech Tool has been successfully connected, go to the EB Power Setup page. If a firmware update is available for your hardware, a Modal will appear on your screen. Simply tap the 'Update' button to begin the firmware update.

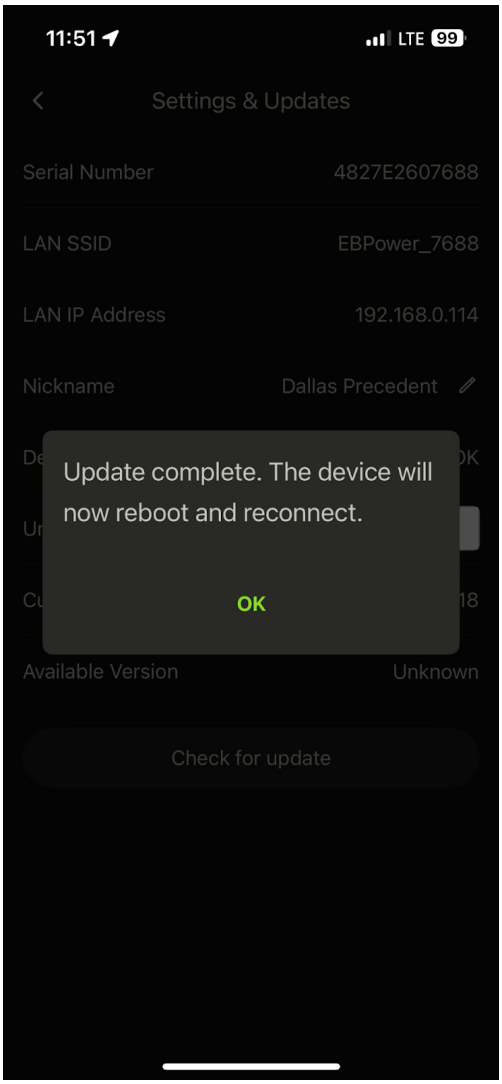
Please note that this updates the firmware on your hardware, which is different from the update you did previously on the Hub page (which was a mobile app update). Failure to complete updates available may result in less than optimal performance.

IMPORTANT: Controller updates are critical during initial setup.

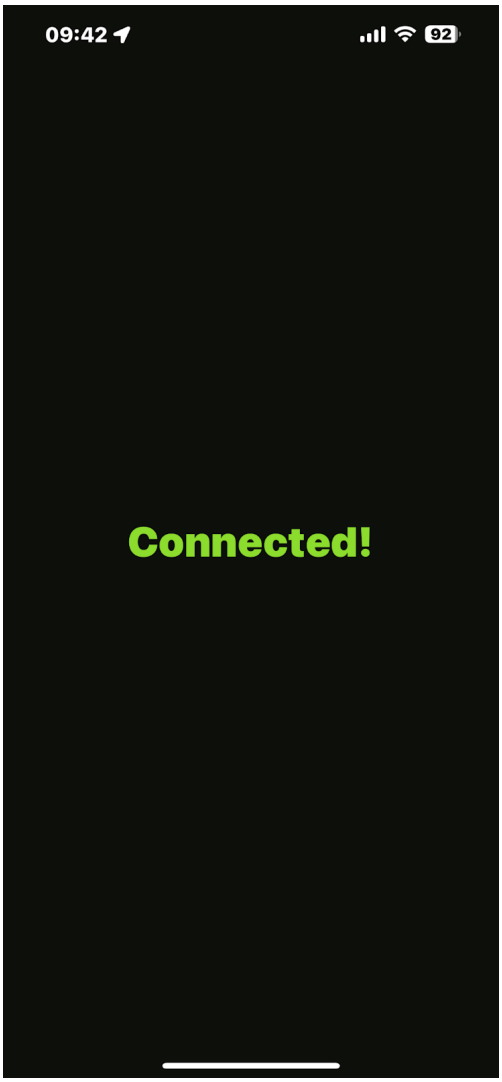


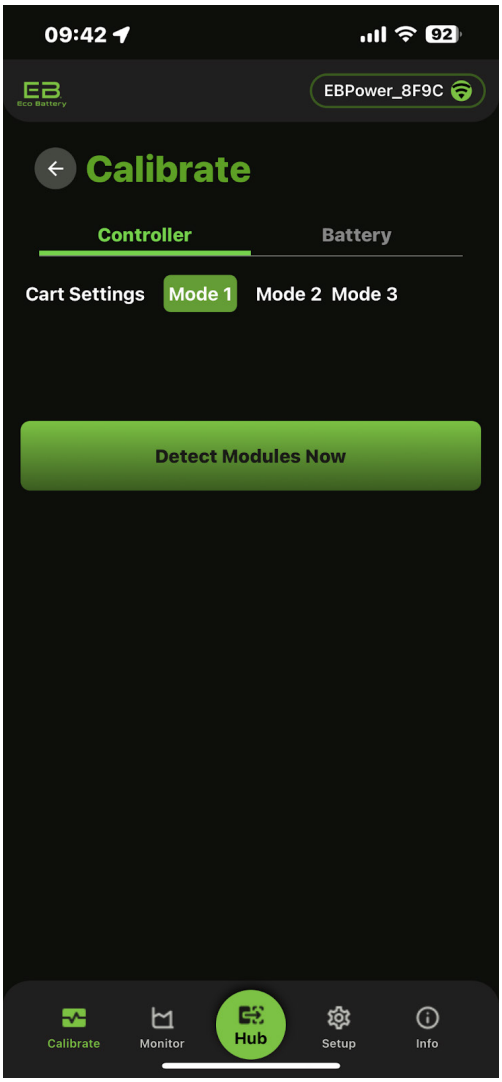
Once completed, select ok. **Your update is now complete.**





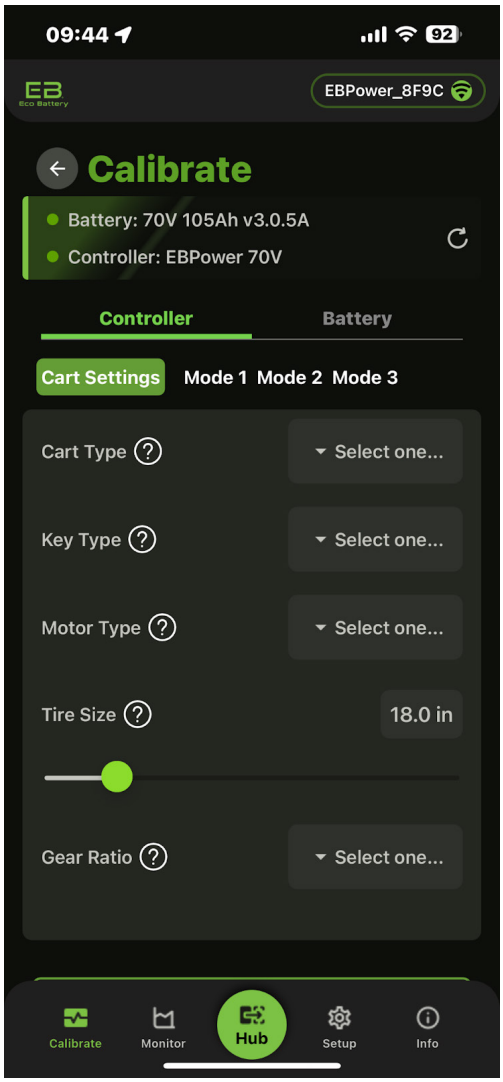
After successfully updating your device firmware, select **“Detect Modules Now.”**





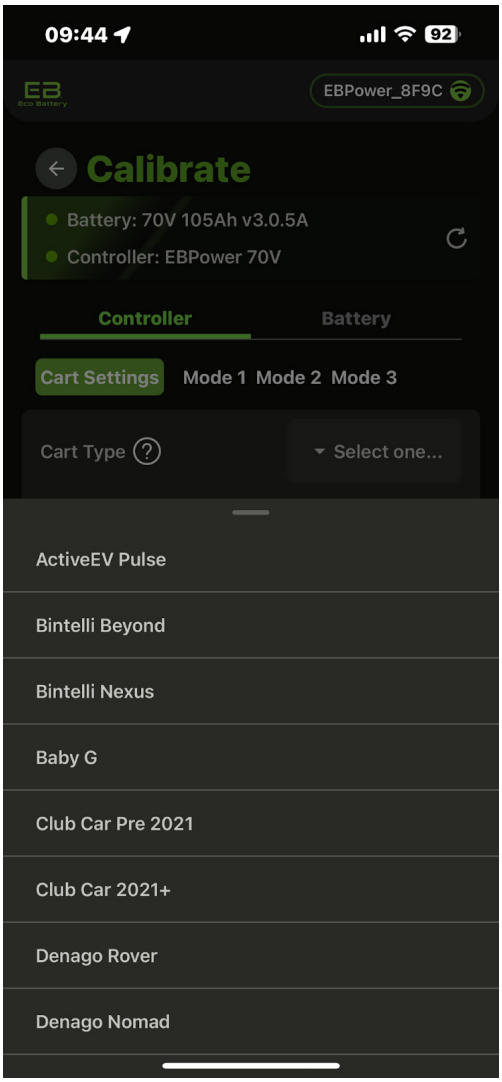
SELECTING YOUR CART

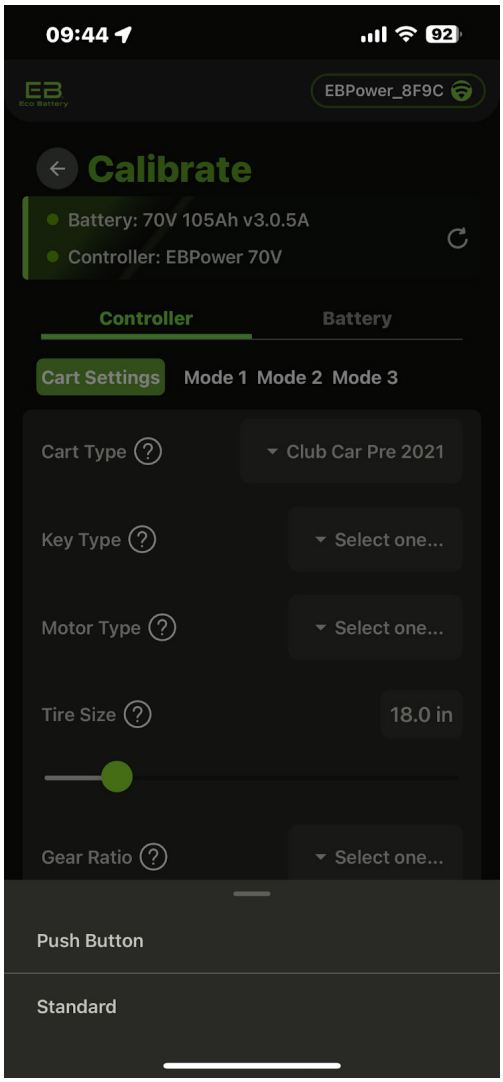
Select your cart settings on initial setup. If you do not know the details of each dropdown, you can find additional information on each cart setting tab by tapping the ⓘ icon next to each label.

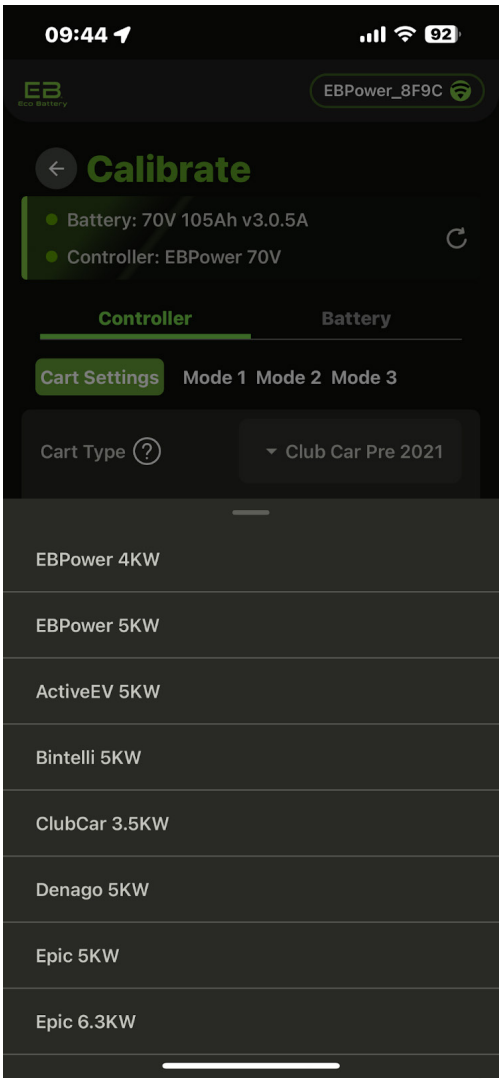


SELECTING YOUR CART

Begin by selecting your cart, then your key type, then your motor.



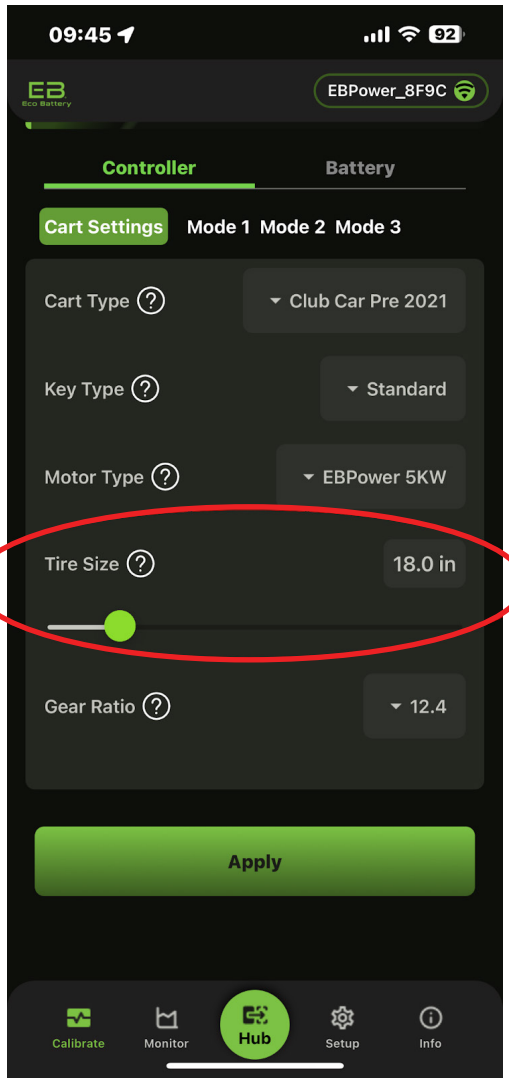




SELECTING YOUR CART

Adjust tire size using the slider - physically measuring tire height in inches provides best accuracy.

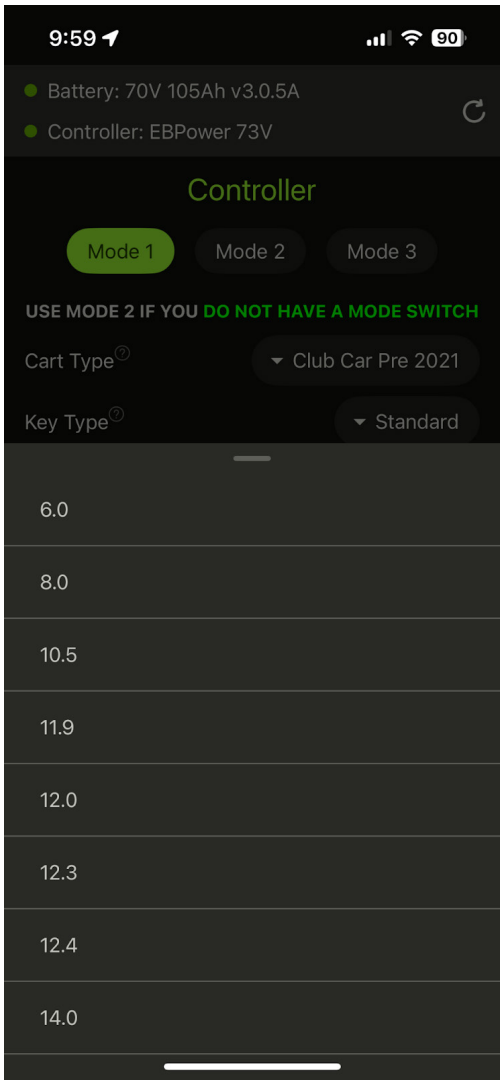
When configuring your golf cart's performance, proper measurement is essential for optimal results. The tire height directly affects vehicle speed and torque, while the correct gear ratio ensures efficient power transfer.



SELECTING YOUR CART

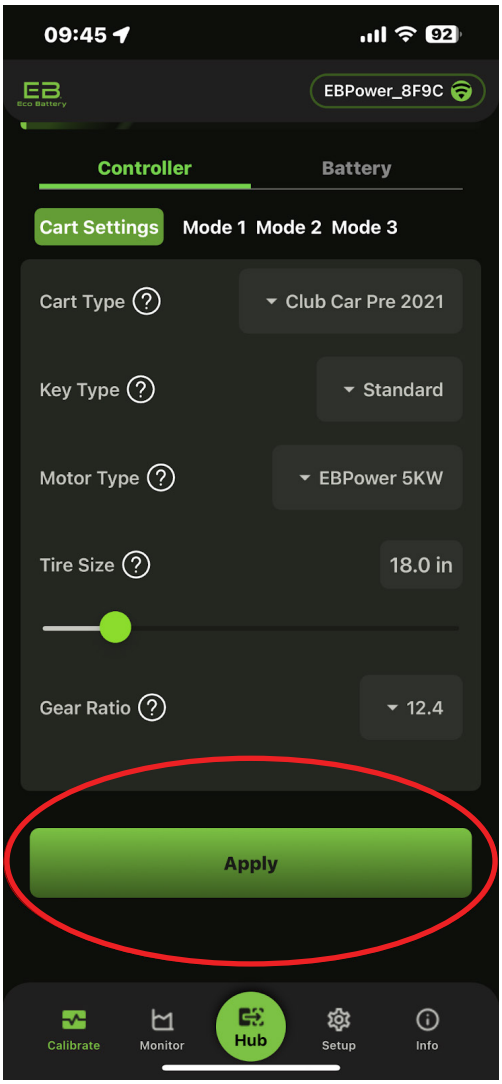
Select your gear ratio. The gear ratio can often be found on a sticker on the axle.

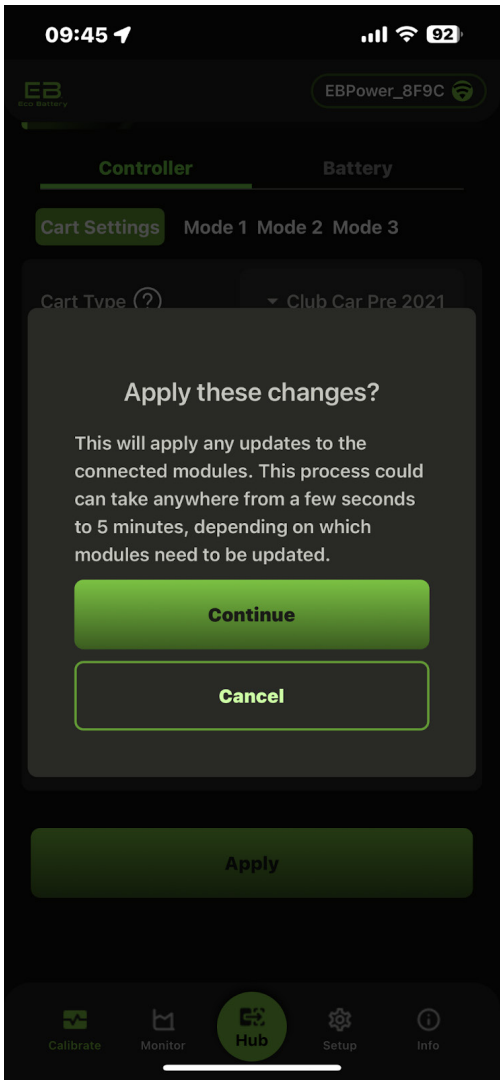
Most stock Club Car, EZGO, and Yamaha axles have a 12.3-12.5 to 1 ratio. Consult your vehicle's documentation if unsure about the exact specifications of your axle.



SELECTING YOUR CART

At this point, if all information is correct, select “Apply.”

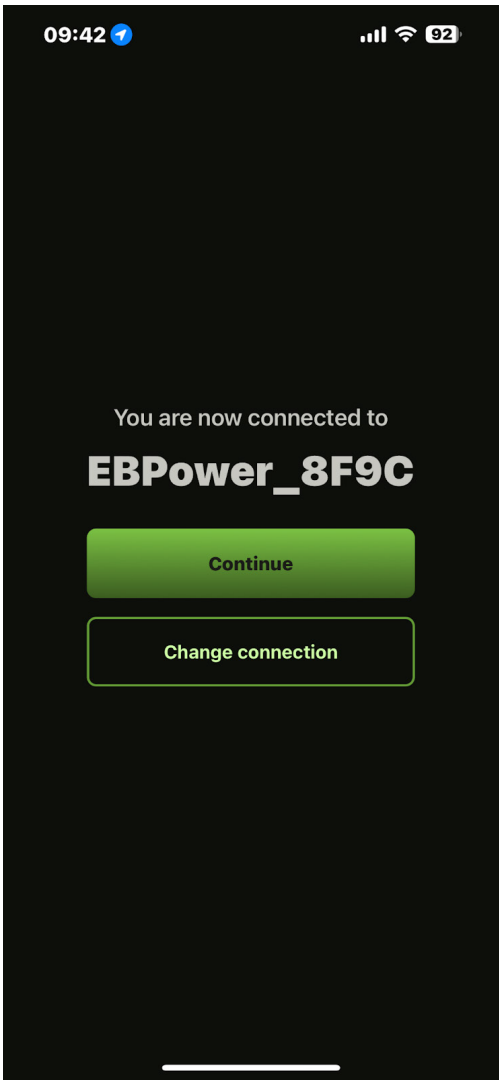


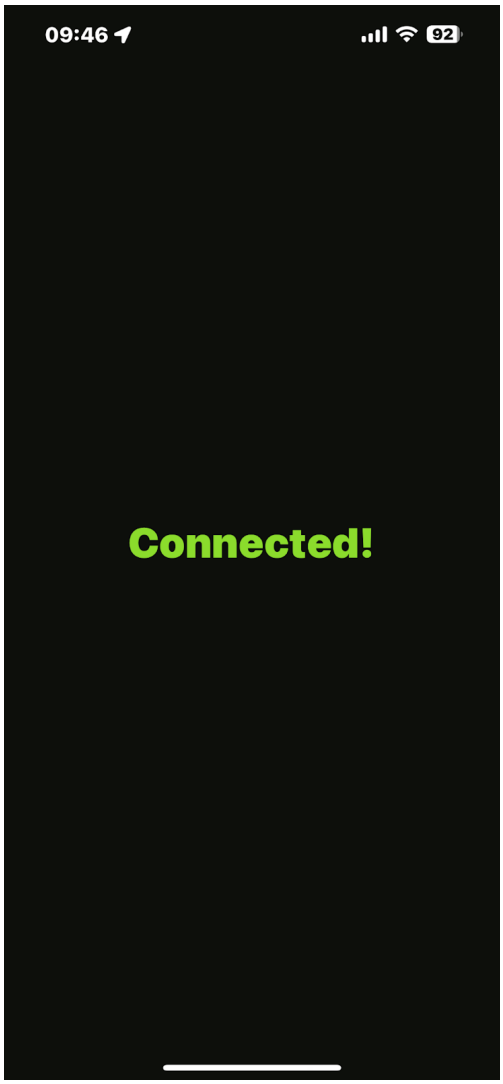


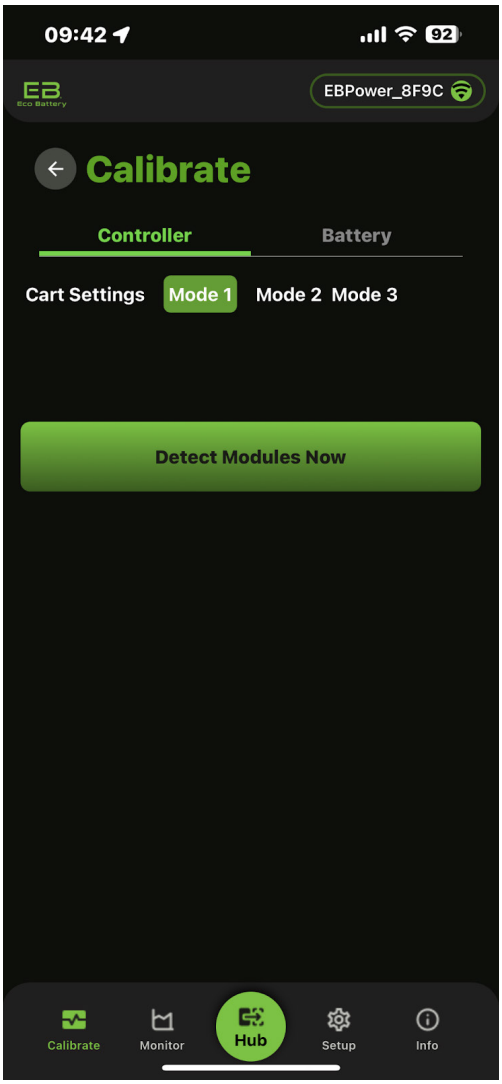


SELECTING YOUR CART

After flash completion, reconnect to controller and detect modules. Ensure proper connection and configuration before proceeding with additional settings.



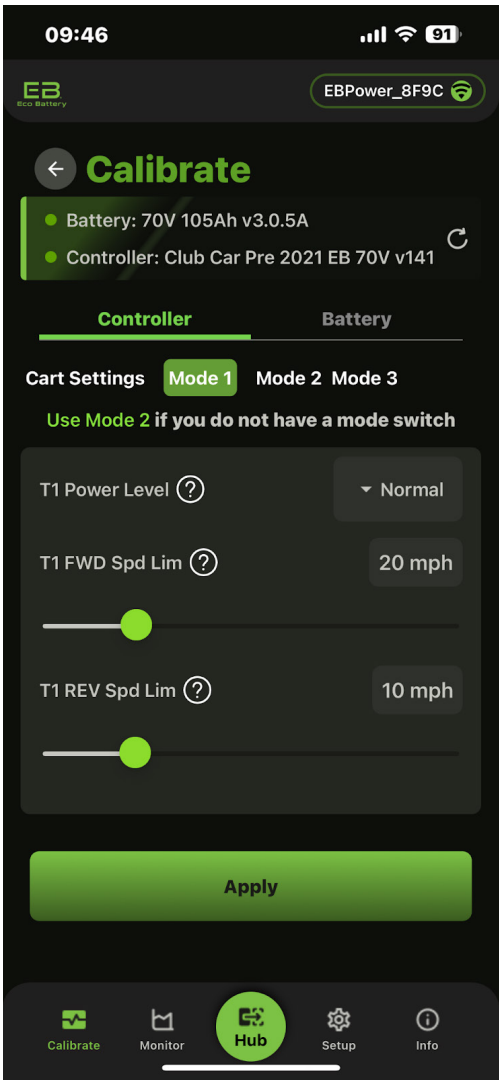


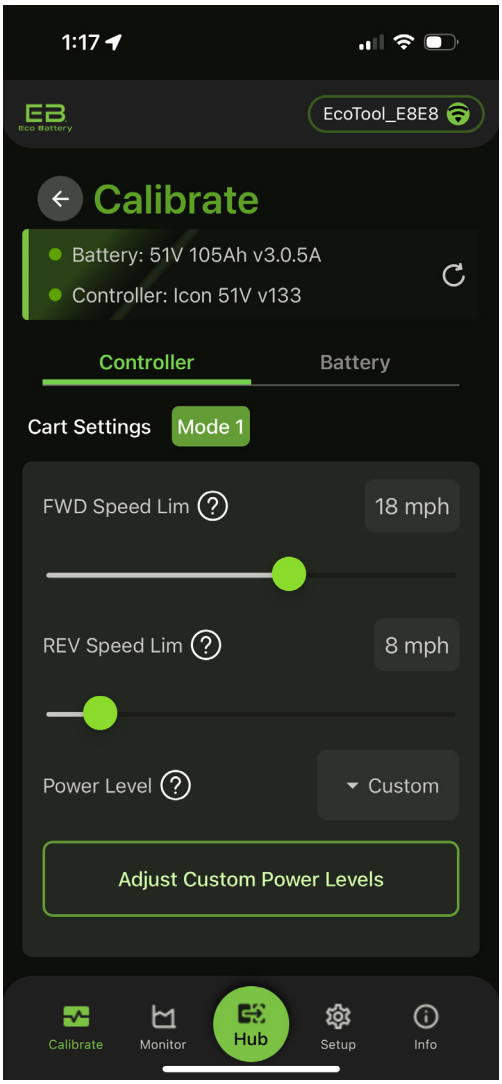


CALIBRATION

There are three “Mode” buttons at the top of the Calibration page. If you have installed an EB Power Mode Switch in your cart (as part of your EB Power Controller install), you will have the ability to individually tune and select each of the three modes.

NOTE: If you do not have an EB Power Controller, only Mode 1 option will appear.

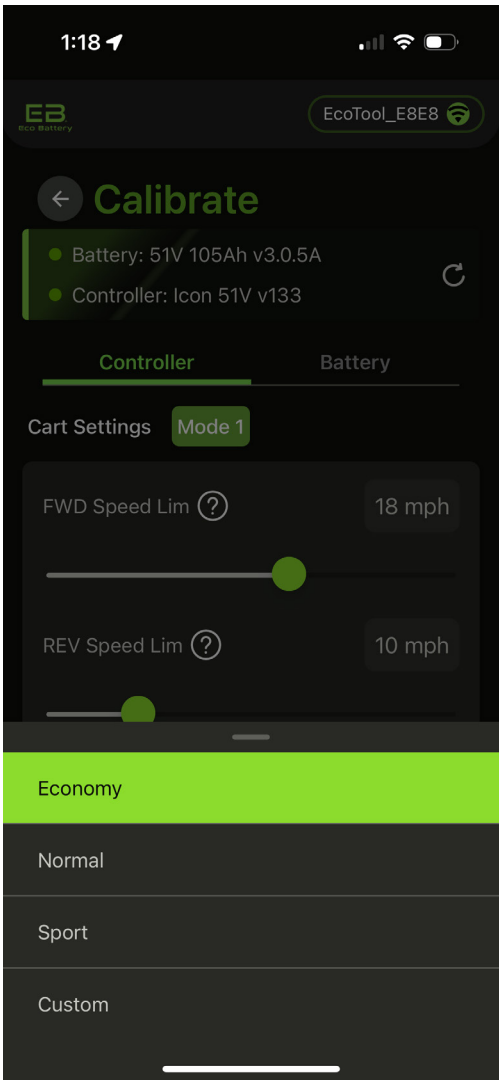


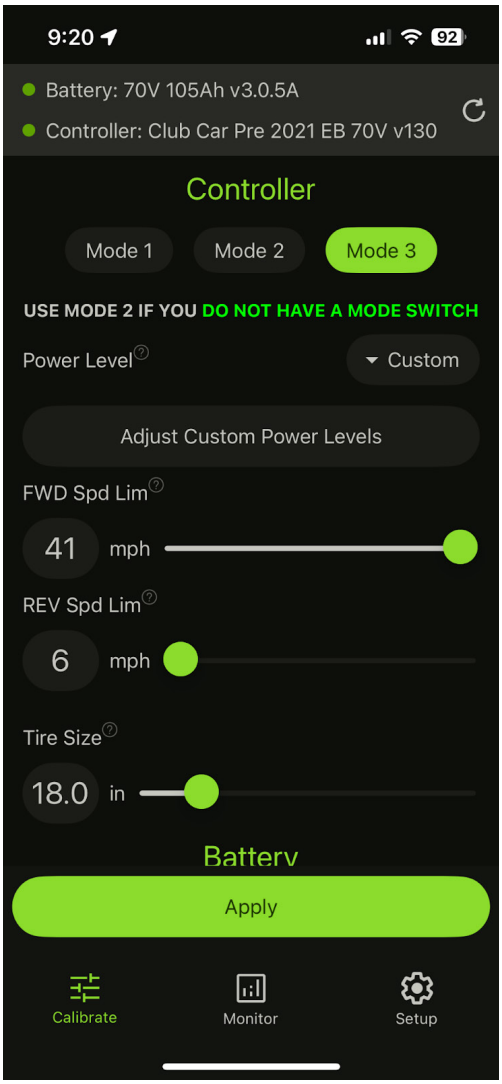


CALIBRATION

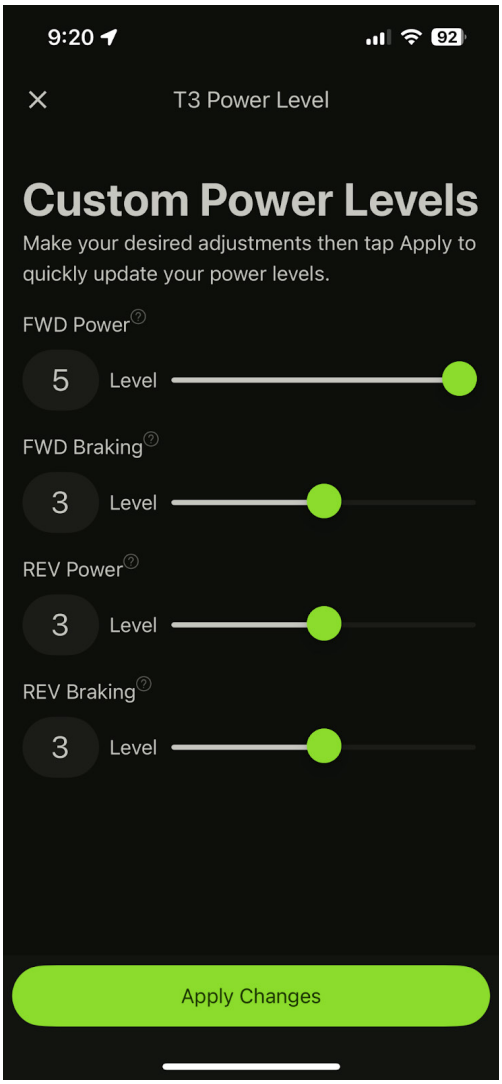
For each of the three modes, you will be able to individually select a Power Level. There are three preset tunes you can select. These Power Levels incrementally increase in performance from Economy, Normal, and Sport.

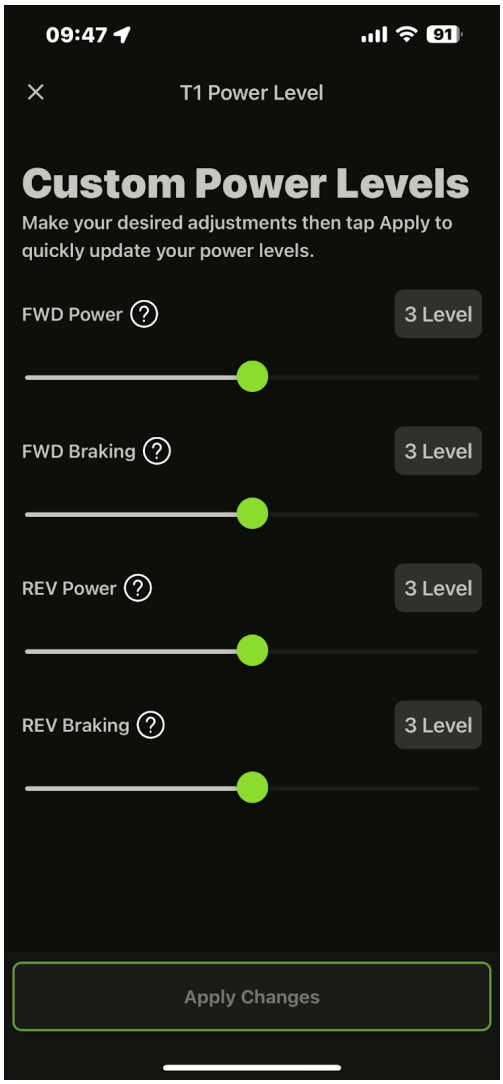
NOTE: the three preset options have predefined acceleration and regenerative braking but the Forward and Reverse speed limits can be adjusted by the user.

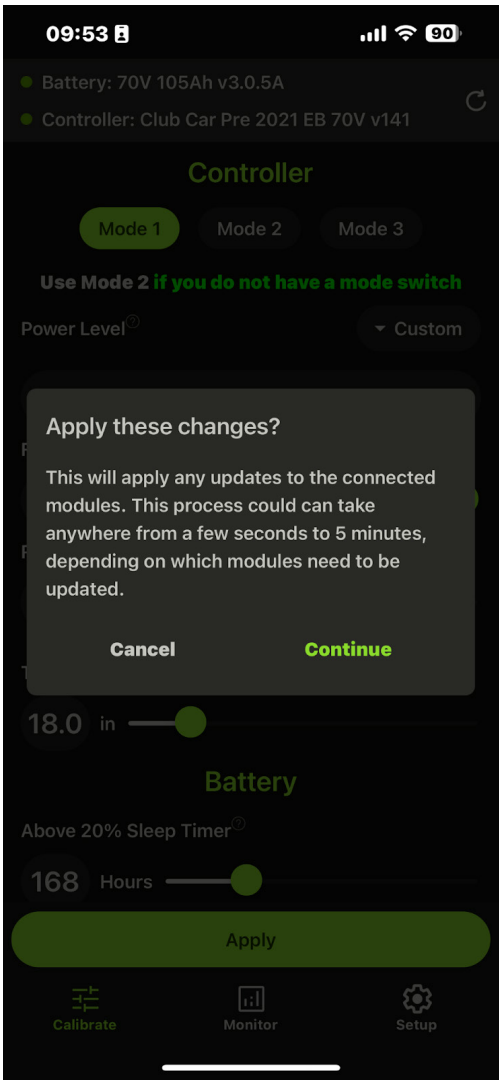




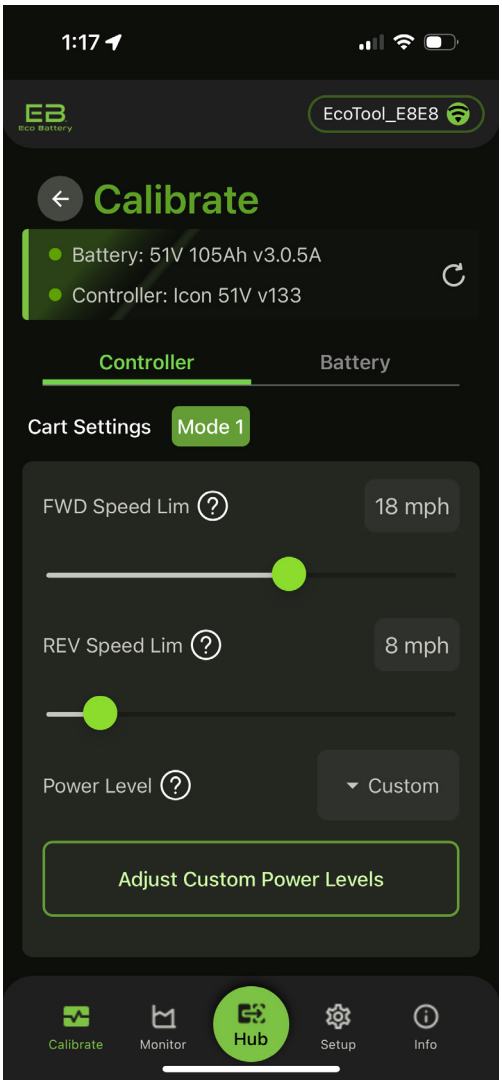
The fourth Custom option allows you to adjust Forward and Reverse Power and Forward and Reverse Braking (regenerative braking) individually. Once you have made your selections, select “Apply Changes” and exit the Custom Power Levels window.

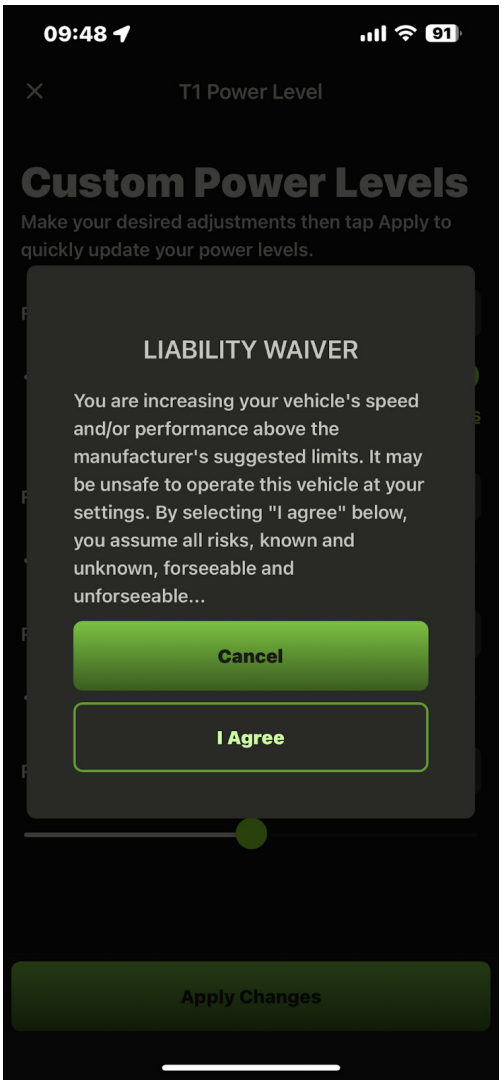






Forward and Reverse Speed Limits can be adjusted for each mode using the slider. The maximum default speed limit is 25 mph. If you wish to exceed this limit, you will need to slide the slider to the right beyond 25 mph, select “Unlock faster speed,” and agree to the liability waiver.

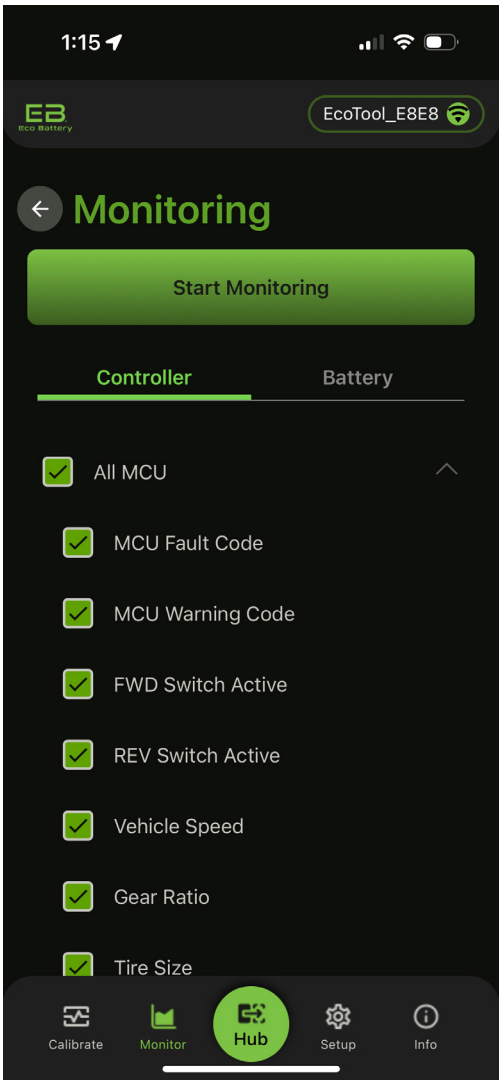


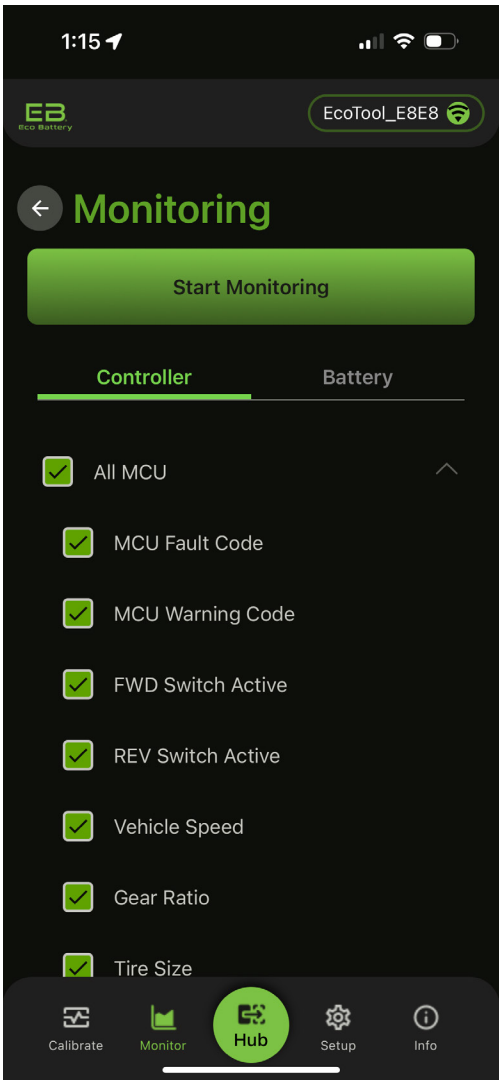


MONITORING

The monitor tab can be used to monitor controller information and battery information if you are using an Eco Battery lithium battery. You can monitor all available parameters by checking “All MCU” and “All BMS” or monitor individual parameters by selecting only the ones you want to view.

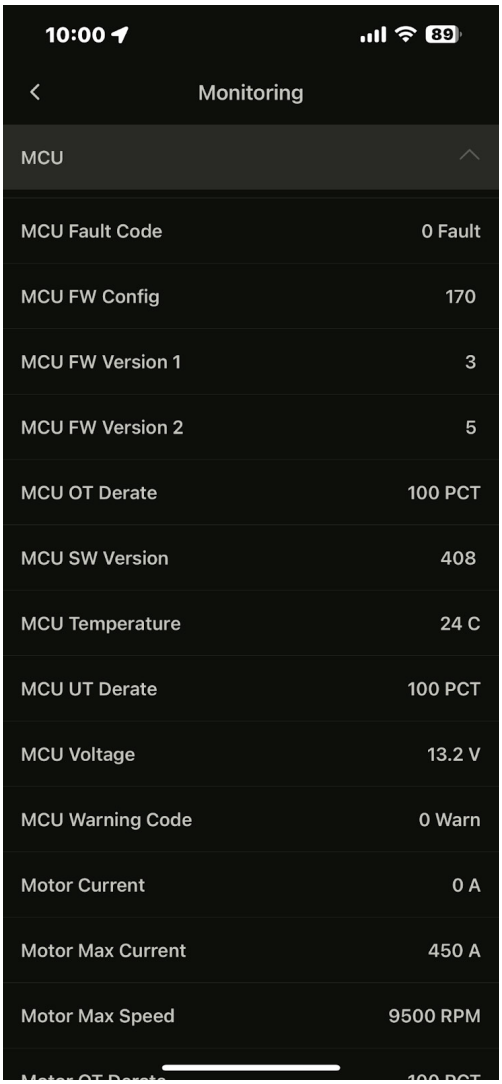
After making your selection, press “Start Monitoring.”

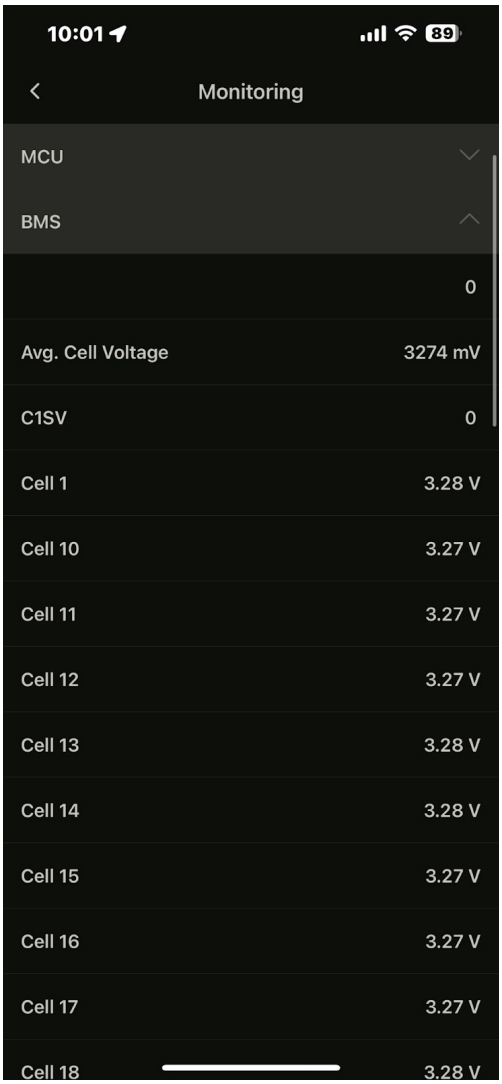




If you selected “MCU Fault Code” and/or “MCU Warning Code” in the parameter list, you will be able to see any codes that may be present.

Although there are LED status lights on the controller, we generally suggest using the monitor page to identify any faults as it is almost always easier to access than the controller.





NEED MORE HELP?

877-326-2288
support@ecobattery.com

For additional product info, user manuals, user guides, and warranty information visit https://ecobattery.com/quickstart