

EggRider User Manual

For EggRider V2 ebike display and mobile apps

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1. EggRider user manual

1.1 Personalise your eBike ride

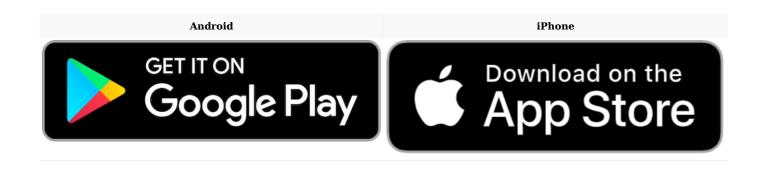
EggRider is the fusion of an eBike display with a mobile app, allowing you to enhance the performance of your eBike ride.

EggRider now presents two distinct display options: EggRider V2 and EggRider C1. While V2 boasts a compact design, the C1 stands out with its vibrant color and larger screen.



1.2 Why choose EggRider?

- Intelligient design with premium feel
- Customise your settings on the go
- Road/Offroad profiles
- Ride statistics
- Continously improving
- Mobile app integrated with EggRider displays



Last update: August 6, 2024

2. EggRider displays setup

Please carefully follow the instructions below for a successful setup.

2.1 Install display on your handlebar

Find the spot on the handlebar, open the hinge, make sure no other components are pushing the display.



EggRider V2 is designed for handlebars with a diameter of 22.2mm, and it should be mounted on a straight section of the handlebar.

EggRider C1 display can be adjusted to fit handlebars with diameters of 31.8mm and 22.2mm. It includes a remote designed for a 22.2mm diameter handlebar. Ensure both the display and remote are properly installed on your bike for optimal compatibility.



Adjust display to a position easy to operate, using M3*10 hex set to screw and tighten. Recommended tightening torque: 0.8 newton-meters. Damage caused by excessive torque is not covered by the warranty.

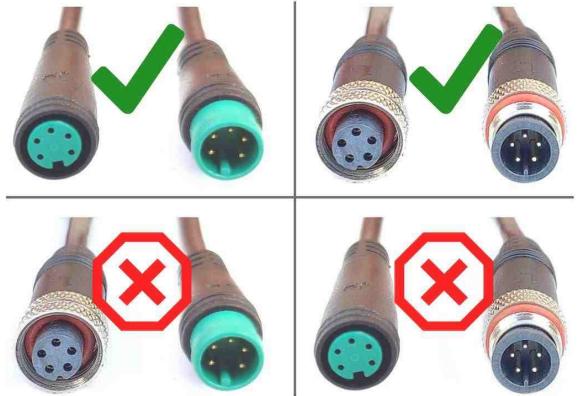
2.2 Plug in the connector to your bike



Ensure that connectors are matched by type.

Make connection only with same type of connectors. If not done so, it voids warranty.

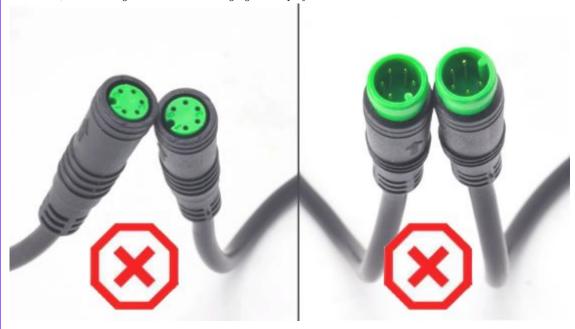
Make connection only with same type of connectors



Connecting different types of connectors voids your WARRANTY!

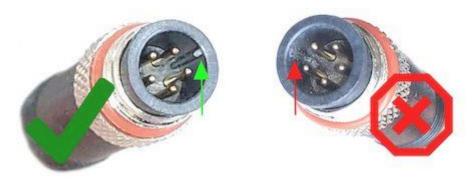
■ Use only authorized adapters such as female to male and male to female adapters.

Otherwise, there's a high likelihood of damaging the display and controller.



Ensure connectors are gently connected using the connector guide.

Incorrectly applying force or twisting the connectors can result in damage to the connector guide, leading to warranty voidance.



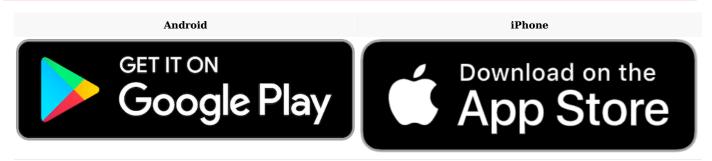
For **RadBikes connection guide**, please see "Rad settings" or "Radv2 Settings" depending on your bike model.

2.3 Protocol detection

When you first connect the display it is important to check that speed shows **00.0** as shown in the picture bellow. This means the EggRider display is able to communicate correctly with your bike. If instead you see speed --.- or **error FF (EFF)** please follow Protocol not correctly setup in troubleshooting. Once the working protocol is found you should **NOT change** it from Display Settings page.

Display Model **Communication OK Communication NOT OK** EggRider V2 EggRider C1 12:37 POWER POWER ED

2.4 Connect with the mobile app



Download the mobile app from the store by clicking on one of the images above.

2.5 Finding your device

At startup, an **automatic scan** for nearby devices is triggered. If the scan finishes and the device does not appear in the list, restart display and pull down on the page to manually trigger a re-scan. Once the device shows in the list, tap on it to initiate the connection.

Do not pair from the Bluetooth menu. Connect only from the app. (see Connection troubleshooting)

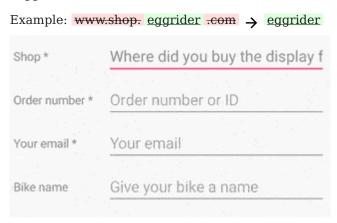
2.6 Activation

Tap on the device in the search list. When the popup shows, choose option **Activate now**.

Inserting correct information gives you instant activation.

The following information is required:

• **Shop name** - Insert the shop where you bought EggRider display from. Start typing and chose from the suggestions.



- **Order ID** it is usually a number and you can find it on your order email or invoice. If you bought the EggRider from a reseller, please ask your reseller for activation details.
- · Your email



Attention

Inserting wrong information will lead to activation delays.

2.7 Important configuration

2.7.1 Wheel size

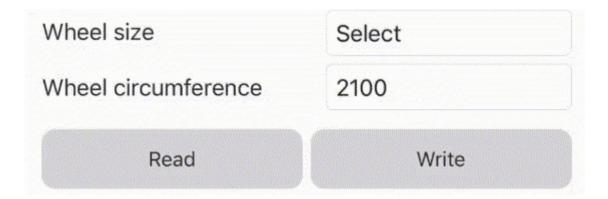
To calculate the **speed** we use **Wheel circumference (millimeters)** value from **Display settings** page. You can use the **Wheel size** drop down helper with some predefined wheel circumferences.

The following links provide comprehensive resources for determining the wheel circumference Wheel size math or Cyclecomputer calibration



Info

The Wheel size drop down is just a helper with predefined values for Wheel circumference. It is normal to go back to Select.



2.7.2 Battery

To have a good battery percentage, you have to set the Voltage 0% V, 100% V and capacity (Ah) in the **Display settings** page.

Use the **Battery Voltage** drop down helper with predefined values for Voltage 0% and Voltage 100%. You can also manually adjust the values to your specific requirements.

These settings are used for **battery measurements only**, they don't influence the voltage cutoffs for example. Use the controller specific settings for protection.



0

Warning

EggRider doesn't work with voltage over 60V (max 52V batteries) or with **dual battery** systems based on diodes. If you see the Display **Over Volt** message please **Stop** using the display and **Contact us via email**.



2.7.3 Saving settings



Warning

The information on EggRider display it is only saved permanently when the display it is powered off from it's own power button. This also includes the trip data.

2.7.4 Configure e-bike specific settings

One more step before you're set to go!

On specific models you need to configure the e-bike/controller specific settings to have full functionality. Please open the navigation menu and go to **E-bike settings** group and select the page relative to your e-bike/controller model.

- · Bafang mid drives
- Rad Power Bikes Rad
- Rad Power Bikes Radv2
- Mate X
- ASI
- Kunteng



Tip

If you encounter any issues please keep in mind our ${\bf Trouble shooting\ page}$



i Tip

 $At the bottom of each page you can also find {\bf Next} \ {\bf and} \ {\bf Previous} \ buttons \ to \ go \ through \ the \ user \ manual \ in \ sequence.$

Last update: August 29, 2025

3. Displays

3.1 EggRider V2

3.1.1 EggRider V2 Display

Buttons



Button Functions

Buttons functionality is determined by the duration of the press:

- Short press less than 1.5 seconds
- Medium press between 1.5 and 3 seconds
- Long press more than 3 seconds

POWER ON/OFF

Power short press

INCREASE ASSIST LEVEL

Up short press

DECREASE ASSIST LEVEL

Down short press

M BUTTON FUNCTIONS

The M button behavior depends on your screen layout option and current screen:

Layout v1/v2:

- On Main screen: M short press Toggle Road/OffRoad modes
- On Main screen: M long press View stats screen (trip data)
- On Stats screen: M short press Returns to main screen

Layout v3:

- On Main screen: M short press Cycle through dynamic values options
- On Main screen: M medium press View stats screen (trip data)
- On Main screen: M long press Toggle Road/OffRoad modes (cycles through stats screen back to main)
- On Stats screen: M short press Cycle through stats pages

ACTIVATE HEADLIGHT

Down long press - Togle headlight, keep holding to toggle display brightness

ADJUST BRIGHTNESS

Down continuously - Cycles through display brithtness Auto, High, Low

WALK ASSIST

Up continuously - Helps the motor push the bike while walking

UPDATE FIRMWARE MODE

When the display is OFF press and hold Up + Power until display turns ON

RESET DISPLAY TO FACTORY SETTINGS

Resets only the display settings. Bafang also stores settings in the controller and they will not be affected.

When display is OFF press and hold M + Power until the display turns ON

RESET TRIP

Available from firmware version v2.6.49

Down long press with stats screen on

CHANGE SELECTED BATTERY

Available from firmware version v2.6.49

Up long press with **stats screen** on

A

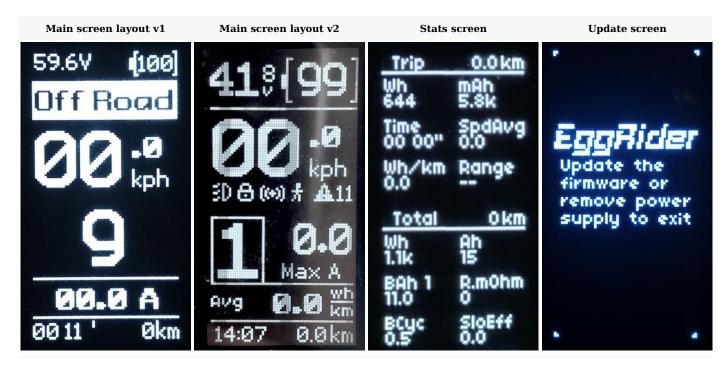
Save settings

Settings, mode, levels, odometer and trip data are saved when the system is shut down from Power button. If the power supply is cut before pressing the Power button, the data is not saved into the permanent memory.

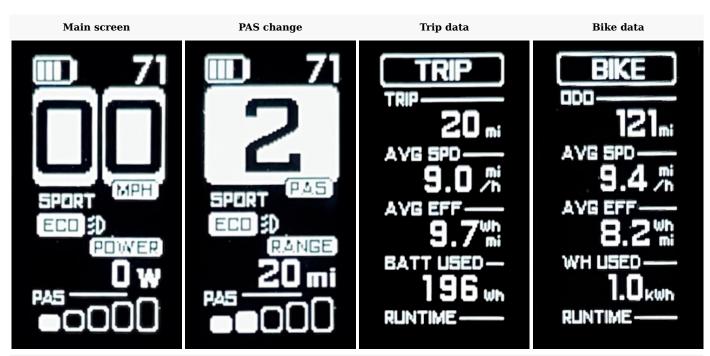
EggRider V2 display screens

EggRider display offers different screen layouts: v1, v2, or v3. See display settings how to change the layout.

SCREENS LAYOUT V1/V2

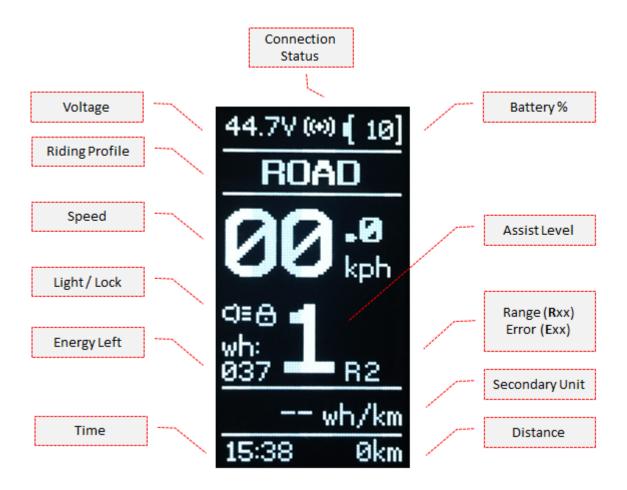


SCREENS LAYOUT V3



Main screen content

The layout v1 is used as an example to showcase all possible icons on the screen. Although the information is positioned differently, the basic icons remain consistent across layouts. See the descriptions below for more.



- Battery % Battery percentage
- Voltage The battery voltage
- Connection status The mobile app is connected
- Riding profile It can be Road/OffRoad or Eco/Sport based on the labels selected
- **Speed** Speed in miles per hour (mph) or kilometers per hour (kph)
- Error (Exx) Shows when an error is detected (example E03 brake on)
- Range (Rxx) Indicates the remaining range in km/miles, where XX represents the distance. If there is an error, the range is not shown
- Light The headlight is switched on
- Lock The bike is locked. In layout v3, the screen displays "Locked" at the top & bottom
- Assist Level The assist level the motor provides
- Secondary Unit It can be Power (W), Current(A), or Efficiency (watt per distance unit)
- **Time** Time of the day
- Distance Current trip distance

Stats Screen Content

LAYOUT V1 & V2

Trip

Shows trip data accumulated since the last reset. The trip can be reset manually or automatically at startup, a setting adjustable through display settings.



Note

If the **Reset trip** -> **At start-up**, trip data will be reset only after the bike starts moving. This is to allow downloading the past trip data via the mobile app.

- Wh Energy used
- mAh Capacity used
- Wh/distance(km/mi) Efficiency since the last restart, lower value gives longer range
- SpdAvg Average speed
- Km/mi Travelled distance
- **Time** Moving time, when speed > 0 value in hours, minutes, seconds
- BmAh Full battery capacity estimation (dependent heavily on the current accuracy), shows only after certain time/distance
- SloEff Efficiency of the last 30 minutes of travel

Total

Lifetime stats

- Total Total traveled distance in kilometers or miles
- Wh Total energy used by the bike, measured in watt-hours
- mAh Total capacity used from the battery, measured in milliampere-hours
- BmAh Estimated full battery capacity based on the last 10 trips or so
- **R.mOhm** Battery series resistance (calculated in the last hour or so). Lower values indicate a healthier battery with better performance, while higher values may suggest wear or inefficiency
- **BCyc** Battery cycles, estimating how many times the battery has been fully charged, based on its declared capacity
- Range Estimated distance remaining until the battery runs out

LAYOUT V3

The layout V3 is available with firmware and app version v2.7 and above. It provides more detailed data compared to the layouts V1 and V2.

Trip

Shows trip data accumulated since the last reset. The trip can be reset manually or automatically at startup, a setting adjustable through display settings.

Note

If the **Reset trip** -> **At start-up**, trip data will be reset only after the bike starts moving. This is to allow downloading the past trip data via the mobile app.

- Avg Spd Average speed
- Avg Eff Average efficiency since the last restart, lower value gives longer range
- Battery used Estimation of the full battery capacity, which depends heavily on current accuracy. Shown
 after a certain time or distance has been traveled
- **Run Time** The total duration of the current trip during which the bike was moving (speed > 0) displayed in hours, minutes, and seconds

Motor

- Current The electric current being used by the motor, measured in amperes (A)
- Power The power output of the motor, measured in watts (W)

Battery

You can set up 3 battery profiles. The current profile is indicated at the top, and the data below corresponds to that profile.

- Voltage Voltage
- SOC The percentage of battery capacity that is currently available
- **Remaining** The remaining energy in the battery, measured in ampere-hours (Ah).
- Cycles The number of battery cycles, estimating how many times the battery has been fully charged.

 This calculation is based on the declared capacity of the battery
- **R.mOhm** Battery series resistance, measured in milliohms ($m\Omega$), calculated over the past hour or so. Lower values indicate a healthier battery with better performance, while higher values may suggest wear or inefficiency

Bike

- ODO Odometer, life time trip data
- Avg Speed Average speed calculated based on the accumulated trip data so far
- Avg Eff Average efficiency calculated based on the accumulated trip data so far
- Wh used Estimated energy consumption, calculated based on data from 10 or more trips. This reflects the full battery capacity utilization over time
- Run Time The total duration during which the bike was moving (speed > 0), displayed in hours, minutes, and seconds

Display

- Version Firmware version of the display
- Build Firmware build number
- MAC EggRider device ID
- Disp Temp Temperature of the display in degrees Celsius

 $\bullet \ \, \textbf{Disp Vol} \ \cdot \ \, \textbf{The electrical voltage powering the display}. \ If the voltage is too low or fluctuates significantly, it may indicate issues with the power supply or the display's performance$

Last update: November 1, 2025

3.1.2 EggRider V2 display specifications

Size

75mm x 47mm x 35mm

Weight

31g

Cable length

50cm

Handlebar mounting bracket

Standard 22.2mm diameter

Clamp screw

Hex bolt M3x10mm

Mounting clamp pin

2.0mm diameter and around 15mm length

Physical buttons

Power On/Off, Level Up/Down and popular Road/OffRoad mode switch

Connector

- Higo/Julet waterproof 5 pin male/female (see image)
- KM 5p screw male

Connectivity

Bluetooth low energy (BLE)

Protection

Dust and water-resistant - IP65 protection

Voltage

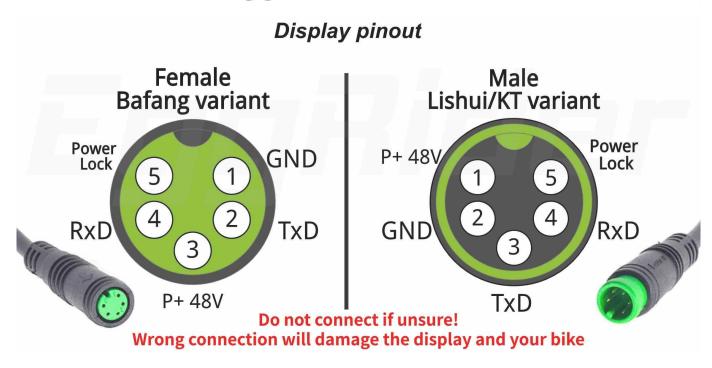
Supports direct voltage up to 60V (maximum 52v nominal voltage batteries). We can support systems with higher voltages only with specific controllers and with special connections to 12V output.

CURRENT CONSUMPTION

- High brightness ~ 17 mA
- Low brightness ~ 9 mA

^{*}values are measured at 12v

EggRider V2 & C1



Last update: September 9, 2024

3.1.4 EggRider V2 display features

Compatible with range of controllers/motor from Bafang to RadPower bikes.

Elegant design with premium feel.

Small enough to avoid unwanted attention.

Lightweight and compact design keeping your handlebar clean.

Compatibility with range of controllers/motor including but not limited to bafang, lishui and RadPower bikes.

Voltage reading from 20V up to 60V.

OLED screen, displaying the most important information while riding without the need of your phone.

Get essential and accurate data including battery percentage, speed, power, and distance.

Access advanced statistics such as energy efficiency, range estimation, voltage, and battery cycles.

Detects real battery capacity and tracking stats of up to 3 batteries.

EggRider mobile app is available for Android and iOS, allowing easy configuration from the app.

Ability to use the EggRider app as a larger display.

In-depth charts capability for your rides.

One button switch between Offroad and Onroad.

Ability to configure several settings for two different profiles:

- Throttle yes/no switching
- Pedal assist yes/no
- Power level

Last update: August 6, 2024

3.2 EggRider C1

3.2.1 EggRider C1 Colour Display

Buttons



Button Functions

Buttons functionality is determined by the duration of the press:

- **Short press** less than 1.5 seconds
- Medium press between 1.5 and 3 seconds
- ullet Long press more than 3 seconds

POWER ON/OFF

Power short press

INCREASE ASSIST LEVEL

Up short press on main screen

DECREASE ASSIST LEVEL

Down short press on main screen

DYNAMIC MENU

M short press - Cycle through dynamic values options: current max, power max, range, average efficiency, battery, trip and rider max (if available)

WALK ASSIST

Walk Assist continuously - Helps the motor push the bike while walking

M BUTTON FUNCTIONS

On Main screen:

- M short press Cycle through dynamic menu options
- M medium press View stats screen (trip data)
- M long press Toggle Road/OffRoad modes (cycles through stats screen back to main)

On Stats screen:

- M short press Cycle through stats pages (Trip, ODO, Motor, Battery, Rider, Software)
- M long press Returns to main screen

ACTIVATE HEADLIGHT

Down long press - Activate headlight, keep holding to toggle display brightness

ADJUST BRIGHTNESS

Down continuously - Cycles through display brithtness Auto, High, Low

TOGGLE ARC GRAPH PARAMETER

Up long press - Toggle parameter shown in the arc graph. Keep holding to cycle through available parameters: power, voltage, battery, speed and rider (if available)

UPDATE FIRMWARE MODE

When the display is OFF press and hold Up + Power until display turns ON

RESET DISPLAY TO FACTORY SETTINGS

Resets only the display settings. Bafang also stores settings in the controller and they will not be affected.

When display is OFF press and hold M + Power until the display turns ON

RESET TRIP

Down long press with stats screen on

CHANGE SELECTED BATTERY

Up long press with stats screen on - Keep repeating until the desired battery profile is shown

Save settings

Changes made to the dynamic menu and selected parameters in the arc graph on the main menu are not saved. Consequently, upon powering off your Eggrider, these settings will revert to default values

However, adjustments to the battery profile, mode selection, assist levels, odometer, and trip data are retained. To save it, please shut down the EggRider from Power button. If the power supply is cut before pressing the Power button, the data is not saved into the permanent memory.

EggRider C1 display screens

The EggRider C1 display offers a streamlined, one-screen solution, allowing you to seamlessly navigate between different pieces of information on the same screen with just one click of [M] button.



Note

With EggRider C1, only the mainscreen layout V3 is available; other layouts are not supported.

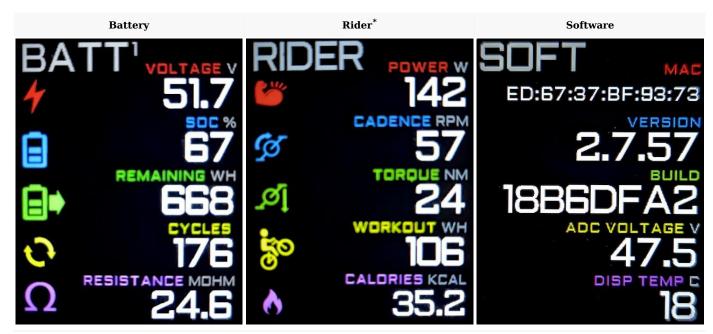
MAIN SCREEN CONTENT



- Battery % Battery percentage
- Time Showing time of the day
- **Dynamic menu** Shows different parameters by pressing M (in the example "current" chosen)
- Connection status The mobile app is connected
- **Riding profile** Chosen riding profile is indicated by colour theme. Blue colour theme indicates Road/ Eco where as red indicates OffRoad/Sport
- Light The headlight is switched on
- Lock The bike is locked
- Assist Level The assist level that the motor provides
- **Distance graph** Travel distance from the ride starts to EggRider is shut. By default, the animation will be displayed (because we are fun!). Values are shown after riding your bike 1km (equivalent of 0.6mi)

STATS SCREEN LAYOUTS





STATS SCREEN CONTENT

Trip

Shows trip data accumulated since the last reset. The trip can be reset manually or automatically at startup, a setting adjustable through display settings.

0

Note

If the Reset trip -> At start-up, trip data will be reset only after the bike starts moving. This is to allow downloading the past trip data via the mobile app.

- **Moving time** The time when speed > 0 value in hours, minutes, seconds
- Distance Travelled distance for the current trip
- Efficiency Efficiency since the last restart, lower value gives longer range
- Avg Speed Average speed
- **Battery used** Estimation of the full battery capacity, which depends heavily on current accuracy. Shown after a certain time or distance has been traveled.

ODO

It shows life time trip data. It can be treated as the accumulated trip data.

- **Moving time** The total duration during which the bike was moving (speed > 0), displayed in hours, minutes, and seconds
- Distance Total travelled distance
- Efficiency Average efficiency calculated based on the accumulated trip data so far
- Avg Speed Average speed calculated based on the accumulated values so far
- Battery used Full battery capacity estimation, takes 10+ trips into an account

Motor

- Current The electric current being used by the motor, measured in amperes (A)
- Power The power output of the motor, measured in watts (W)
- RPM Pedaling cadence or the motor's RPM if available
- Temp Cont Controller temperature if available
- Temp Mot Motor temperature if available



i Note

Temperature values will only be displayed if the motor or controller provides this information. If the information is unavailable, the values will be shown as 'Zero'.

Battery

With EggRider displays, you can set up 3 different battery profiles. The superscripted number displayed indicates which profile you are currently using, and the data shown below is related to that profile.

- Voltage Voltage
- SOC% The percentage of battery capacity that is currently available
- Remaining The remaining energy in the battery, measured in ampere-hours (Ah)
- **Cycles** The number of battery cycles, estimating how many times the battery has been fully charged. This calculation is based on the declared capacity of the battery.
- Resistance Battery series resistance, measured in milliohms (mΩ), calculated over the past hour or so.
 Lower values indicate a healthier battery with better performance, while higher values may suggest wear or inefficiency

Rider

- * This screen is only visible if bike has a torque.
 - Power Human power being applied to the bike's pedals or crankset
 - Cadence The speed at which a cyclist is pedaling
 - Torque The rotational force applied to the pedals by the rider
 - **Workout** The cumulative or total energy expended over a period of time, calculated by summing up all the instantaneous powers
 - Calories Calories spent so far

Soft

- MAC EggRider device ID
- Version Firmware version
- Build Firmware build number
- **ADC Voltage** Display voltage, the electrical voltage powering the display. If the voltage is too low or fluctuates significantly, it may indicate issues with the power supply or the display's performance
- Disp Temp Display temperature

Last update: November 1, 2025

3.2.2 EggRider C1 specifications

The EggRider C1 comes with a remote, enabling easy navigation and freeing up space on your main display for essential riding statistics.

C1 display

Size

47.4mm x 64.2mm x 29.7mm

Weight

100g (including 2 mounts)

Cable length

50cm

Handlebar mounting bracket

31.8mm diameter provided with a rubber spacer that adapts to 22.2mm diameter

Clamp screw

Hex bolt M3x10mm

Mounting clamp pin

2.0mm diameter and around 15mm length

Physical buttons

Power On/Off

Connector

- Higo/Julet waterproof 5 pin male/female (see image)
- KM 5p screw male

Connectivity

Bluetooth low energy (BLE)

Protection

Dust and water-resistant - IP65 protection

Voltage

Supports direct voltage up to 60V (maximum 52v nominal voltage batteries). We can support systems with higher voltages only with specific controllers and with special connections to 12V output.

Current consumption

- High brightness ~ 94 mA
- Low brightness ~ 36 mA

*values are measured at 12v

C1 remote (RM 01)

Size

17mm x43.7mm X 44.2mm

Weight

20g

Cable length (from the display)

24cm

Handlebar mounting bracket

22.2mm diameter

Clamp screw

Hex bolt M3x10mm

Physical buttons

Power On/Off, Level Up/Down, Walk-Assist and popular Road/OffRoad mode switch

Protection

Dust and water-resistant - IP65 protection

Last update: September 9, 2024

3.2.3 EggRider C1 colour display features

A 2-inch display with large fonts, high-contrast visuals, and vibrant colors for easy readability in any weather.

Compatible with range of controllers/motor from Bafang to RadPower bikes.

Includes a remote, essential for navigating information/settings on the larger display.

Voltage readings range from 20V up to 60V.

With just a simple click, switch between different information displayed on the screen.

Get essential and accurate data including battery percentage, speed, power, and distance.

Access advanced statistics such as energy efficiency, range estimation, voltage, battery cycles, rider data and more.

Detects real battery capacity and tracking stats of up to 3 battery profiles.

EggRider mobile app is available for Android and iOS, allowing easy configuration from the app.

In-depth charts capability for your rides.

Ability to configure several settings for two different profiles:

- Throttle yes/no switching
- Pedal assist yes/no
- Power level

Last update: September 3, 2024

4. Firmware Update

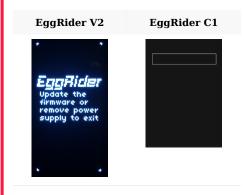
4.1 EggRider Display Firmware Update



Attention

It is highly recommended to ensure you update your firmware to the latest available when you receive your EggRider.

Please make sure to put EggRider display in update mode when doing the update procedure! With EggRider Display off, press (Up)+ Power until it shows EggRider Updater screen



4.1.1 Update instructions for versions V2.5.xx +

Attention

Due to significant changes in core functionalities, we recommend following the steps below for a smooth transition. We have tested the update from firmware version v2.4.11 and above. While it should also work on older firmware versions, we recommend resetting to default settings afterward for optimal performance.

To access all features, please ensure you are using the update alongside app version v2.5.03 or later.

Backup your settings and ODO stats (in rare cases they can be lost).
 To access the second screen (stat page), press the M button for more than 3 seconds.



- Check if any of the ODO Total KM, Wh or Ah are different than before, as highlighted in the picture above. If so we recommend to reset ODO from the Display Advanced settings.
- To use new features, such as changing the Display Main Screen layout (available with app version v2.5.03 or later), ensure to rescan for the device after updating. If already connected, disconnect and reconnect. Then, verify that the version shown is correctly (e.g. v2.5.17) as shown in the picture below.



- If you need to reset the ODO, you can use the ODO offset feature in the Display Advanced Settings by entering the previous ODO distance.
- We recommend verifying your battery specifications. In the Battery Voltage 100% setting, you now need to enter the full charge voltage for better battery estimation. For example, a 48V battery should be set to 54.6V. If you're unsure, you can use the predefined selections for guidance. See Battery Settings for more info.

For Capacity (Ah), you may find that a slightly lower value than the manufacturer's stated capacity provides more accurate results. This is because battery performance degrades over time, and in some cases, the voltage cutoff is set higher.

4.1.2 How to update EggRider display?

- Using EggRider mobile app
- Using Google Chrome browser (Deprecated)

- Using iPhone or iPad (Deprecated)
- Using Android or Tablet (Deprecated)

Last update: February 27, 2025

4.2 EggRider display firmware update from EggRider mobile app



Attention

It is highly recommended to ensure you have the latest firmware available on your EggRider display.

This procedure is available mobile app version >= 2.6.03

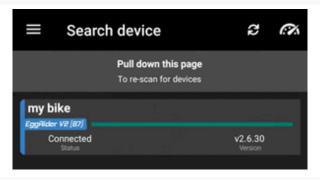
4.2.1 Steps to update

- 1. Back up your settings and ODO (odometer) stats with a screenshot.
- 2. Connect to EggRider display

If you are unable to connect: turn the display off, then press Up + Power until you see **Update firmware** screen. Skip to step 5

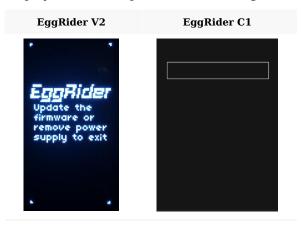
3. Go to Search page and **slide right** on EggRider in the list

Firmware update option in Search list by sliding right



4. Tap Update

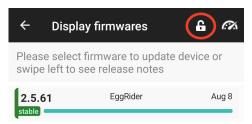
5. Display restarts in update mode showing the following screen



6. Display firmware page will open

If not, go to $\bf Search$ page and slide down to scan for devices. Tap on $\bf EggRiderBL$ or $\bf DispUpdV2$

Optional - slide left on one of the firmwares in the list to see release notes



- 7. Tap on the latest sable version
- 8. Update procedure will start
- 9. When update is completed the EggRider display will start in normal running mode and the app will connect to the display automatically.

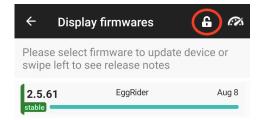


If the update hangs, power off from the battery or unplug the cable, then restart the procedure.

4.2.2 Update with code

Use this procedure if you have a specific firmware code you need to install.

- 1. Follow the Steps to update from 1 to 6 until you get to the Firmware update page
- 2. Tap on the **lock icon** in the top right corner



3. Insert the **specific firmware code** you were provided. The code usually looks like this:

c7b8e192-3a56-4b21-8f9d-123456789abc

4. Tap on the unlocked firmware in the list to begin the update



If the update hangs, power off from the battery or unplug the cable, then restart the procedure.

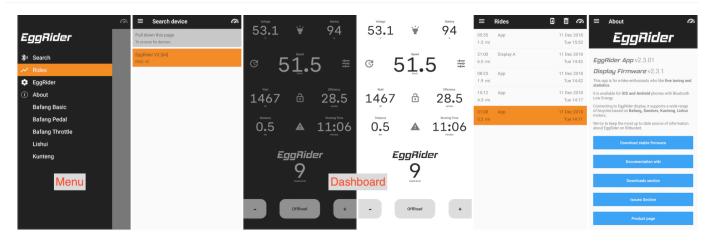
Last update: September 15, 2025

5. Mobile App

5.1 EggRider mobile apps

Both Android and iOS apps have the same functionalities, except for short periods of time between version releases. Although generally similar in appearance, there are some visual differences due to platform-specific components.

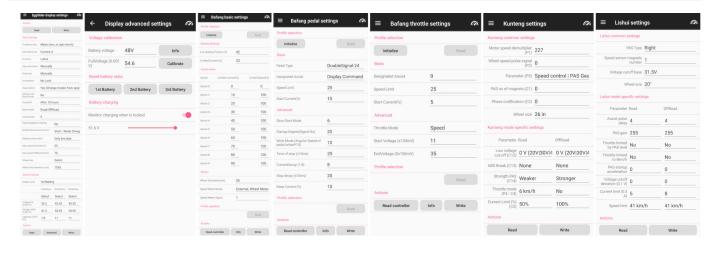
5.1.1 App overview main pages



5.1.2 App overview stats pages



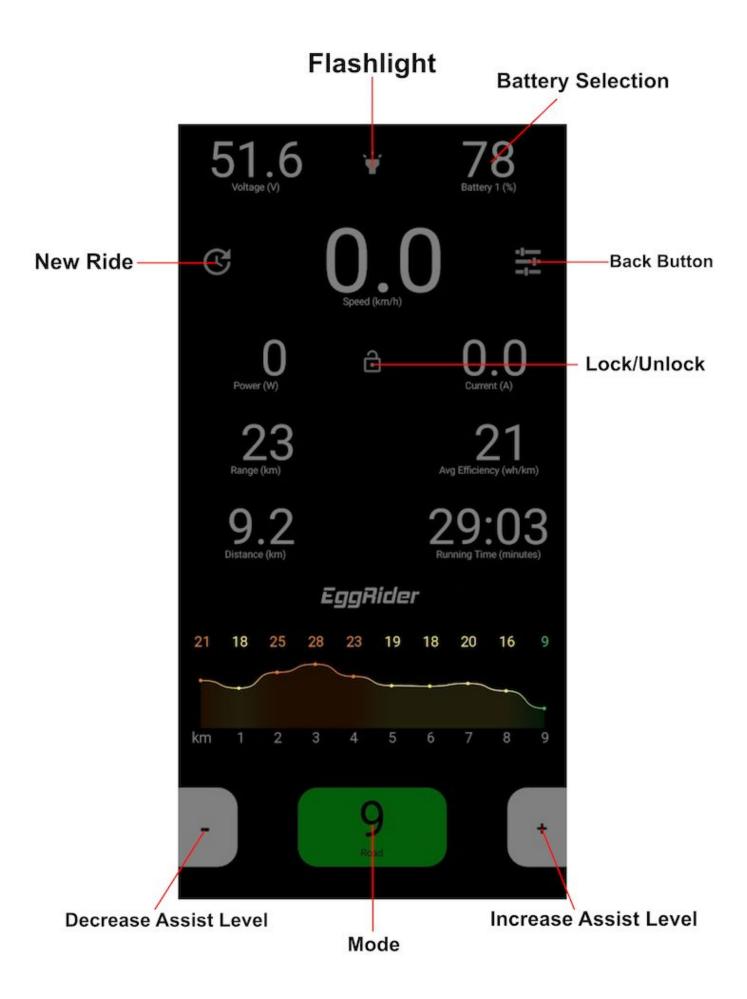
5.1.3 App overview settings pages



Last update: February 7, 2023

5.2 Dashboard page





Shows real-time information about your riding.

- Voltage = Battery Voltage
- Flashlight = Turning on / off your headlight
- Battery Selection = Battery percentage | If you press on it you can change the battery
- New Ride = A new Ride will start and the current ride will stop
- Speed (km/h) = Your current speed
- Power (W) = Engine power
- Lock/Unlock = Lock/Unlock screen
- Current (A) = Battery current
- Range (km) = Distance until battery will drain
- Avg Efficiency(wh/km) = Efficiency on watt-hours per km
- distance (km) = Distance that you rode on the current ride
- **Running Time (minutes)** = Total time on the current ride
- **Decrease Assist Level** = Assist level will decrease when pressed
- Increase Assist level = Assist level will increase when pressed
- **Mode** = Change the current mode

Dashed values displayed can be caused by the following; a communication issue, or not connected to EggRider display.

5.2.1 Record your ride

Real-time information is recorded by the app only when this page is visible and connected.

Make sure you send the app in the background from this page (press the Home button on your phone) if you want to record in your statistics while using other apps.

In order to save the stats of your ride you will need to do the following:

- 1. After you finish the ride press on "New Ride"
- 2. Next, go in the "Rides" page
- 3. Press on your last Ride
- 4. Press on "share" icon
- 5. Save your file on your phone or share it with your friends!

Remember that some operating systems can still kill the app running in the background. If this is the case, go into your system settings and disable any optimization or similar settings. Also on Android, you might have the option to lock the app which will prevent it from being killed by the operating system.

To return to the settings pages, press the settings icon on the right (on android it can also be achieved using the $\lceil Back \rceil$ button)

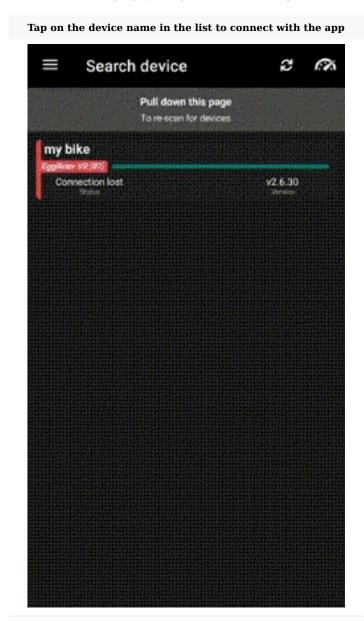
Last update: February 22, 2023

5.3 Search page

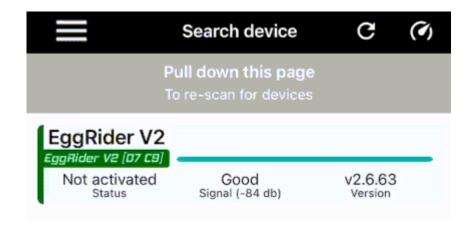
Accessible from menu **Search**

It shows the list of EggRider displays in range.

When the app starts, it scans for EggRider devices nearby and displays them in the list. You can also trigger the scan manually by pulling down on the page.



You can also slide from left to right or from right to left in order to check the other options.



- Rename -> You can rename your EggRider display
- Update -> Enter in Update mode (you need to be connected first)
- Connect -> You can connect to the EggRider display
- Disconnect -> Disconnect from EggRider display

5.3.1 Troubleshooting

If your device is not showing up in the list

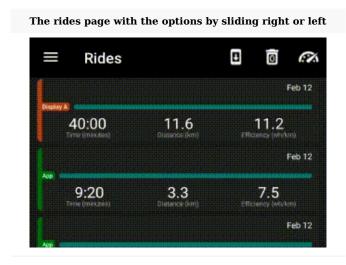
- Make sure the app has access to bluetooth under your phone's settings
- Make sure the EggRider display is plugged in and turned on
- Restart the EggRider display
- Pull down the page to refresh the scan

Last update: February 20, 2023

5.4 Rides

Accessible from menu **Rides**

Shows a list of rides recorded from the app or the display. Each ride shows its source label, running time, distance, and date it was recorded in the app:



In the Rides page, on the top bar you have the following extra actions:

• Delete Rides - It deletes all Rides with distance < 0.1 km

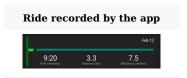


• Get Display stats - Display Last Ride Stats



Rides are differentiated by the source labels.

• **App** - Real-time information recorded by app when connected to EggRider display. (Tapping shows **Ride** summary).



• **Display A (Auto)** - At every connection the app collects automatically the last ride data recorded by display (Tapping shows **Display stats**).

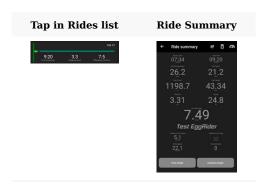


• Display M (Manual) - Manually collected ride data recorded by display (tapping shows Display stats).



5.4.1 Ride Summary

Accessible from the **Rides list** page by tapping on a ride labelled with **App**.



In the Ride Summary page, on the top bar you have the following extra actions:

• **Delete Graph** - deletes all the data points related to the trip but keeps the summary stats. You might consider this for saving memory.



• Export trip - generates a .csv file of the trip available for viewing and sharing outside the app.



5.4.2 Ride Graph

Accessible in the **Ride Summary** page by tapping **Distance Graph** or **Time Graph** buttons.

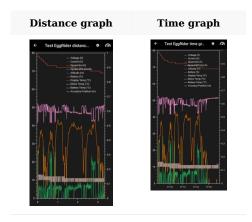


Distance Graph - Shows the ride real-time information distance based (having the distance on the x (horizontal) axis).

Time Graph - Shows the ride real-time information time based (having the time on the x (horizontal) axis).

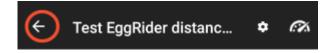
Y (vertical) axis are as follows:

- right side axis it is plotted only altitude
- left side axis are plotted all the other values



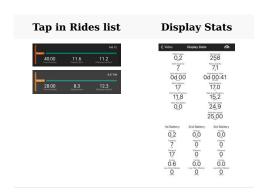
These graphs also support two fingers pinch for zoom in/out.

To go back to **Ride summary**, press the arrow in the left top corner (or Back button on android).



5.4.3 Display Stats

Accessible from the Rides list page by tapping on a ride labelled with Display A or Display M.



ODO labels - These represent the cumulative or lifetime data values tracked by the display. ODO, short for "odometer," records information that accumulates over the entire lifespan of the device. For instance, this could include total distance traveled, overall usage time, or other similar statistics.

Ride labels - These pertain to specific data values related to individual display trips. Unlike ODO labels, which cover overall data, ride labels focus on metrics that are relevant to each separate trip. These metrics might encompass information such as distance, duration, speed, energy consumption, and more, providing insights into each ride taken using the EggRider display.

Battery labels - This section displays a trio of distinct columns, each dedicated to presenting detailed statistics specific to an individual battery. This arrangement ensures a comprehensive view of the performance metrics for each battery.

To go back to **Rides list** select **Rides** on the top right corner of the screen.

Last update: October 14, 2023

5.5 Profiles Page

Accessible from menu **Profiles**

5.5.1 Overview

Profiles allow you to save and manage different configurations for your eBike settings. This feature enables you to quickly switch between different riding setups without manually adjusting individual parameters each time.

With profiles, you can:

- Save complete eBike configuration settings
- · Create multiple profiles for different riding scenarios (e.g., commuting, off-road, eco mode)
- Share profiles with other EggRider users
- View and check profile compatibility before applying
- Apply saved profiles to quickly change your eBike settings

5.5.2 Profile Functionality

What's Included in a Profile

A profile stores comprehensive eBike settings including:

- Display Settings Screen layout and preferences
- Assist Levels Power distribution across different assist levels (supported protocols)
- Controller Settings Motor parameters, current limits, and power configurations
- Protocol-Specific Settings Settings for Bafang, Lishui, ASI, and other supported protocols

Profile Types

Profiles can contain settings for various controller protocols:

- Bafang Basic, pedal, throttle, and torque settings
- CAN Bafang Settings for CAN bus Bafang controllers
- Lishui Lishui controller configurations
- Kunteng Kunteng controller parameters
- ASI ASI controller settings and XML configurations

5.5.3 Applying a Profile

A I

Important

- Ensure your EggRider display is connected before applying a profile
- $\bullet \ \ Check \ profile \ is \ compatible \ with \ your \ bike/motor/controller/battery$
- Applying a profile will overwrite your current eBike settings
- Some settings may require a controller restart to take effect

We created some example profiles and made them publicly available, mainly to be used as a starting point.

To apply a profile to your eBike:

- 1. Open the **Profiles** page
- 2. Browse available profiles
- 3. Select the profile you want to apply
- 4. Review the profile settings to ensure they match your bike components and your needs
- 5. Tap **Apply Profile**
- 6. Wait for the settings to be written to your controller
- 7. Confirm the settings have been applied successfully

5.5.4 Creating a New Profile

Profile creation functionality was added in EggRider App V2.8.34 (Beta) and requires permissions



Known Limitations

Currently it is not possible to edit or delete a profile

To create a new profile:

- 1. Configure your desired settings in the display and controller specific pages
- 2. Navigate to the **Profiles** page from the main menu
- 3. Tap the + button
- 4. Enter a descriptive name for your profile (e.g., "Mountain Mode", "City Commute", "Eco Riding")
- 5. Enter a description including bike, motor, controller, battery model and any other meaningful information to help others assess compatibility
- 6. Tap **Save** to store the profile



Naming Profiles

Use descriptive names that clearly indicate the profile's purpose. This makes it easier to identify and select the right profile when switching between configurations.

5.5.5 Sharing Profiles

Profile sharing was added in EggRider App V2.8.34

You can share your profiles with other EggRider users:

- 1. Open the **Profiles** page
- 2. Open the profile you want to share
- 3. Tap the < button
- 4. The profile code will be copied to clipboard

Importing Shared Profiles

To import a profile shared by another user:

- 1. Open the **Profiles** page
- 2. Tap the a unlock/import button
- 3. Paste the **code** received in the field

5.5.6 Best Practices

- Create Backup Profiles Save your current settings as a profile before experimenting with new configurations
- Test Carefully When applying a new profile, test it in a safe environment before regular use
- Use Descriptive Names Use clear names and detailed descriptions to remember what makes each profile unique
- **Share Wisely** When sharing profiles, include detailed information about your eBike setup so others can assess compatibility

5.5.7 Troubleshooting

Profile Won't Apply

If a profile fails to apply:

- Check that your EggRider display is connected
- Verify the profile is compatible with your controller type
- Ensure your firmware is up to date
- Try restarting the app and reconnecting to the display

Settings Don't Match After Applying

- Some settings may require a controller power cycle
- Verify that all parameters were written successfully

- Check for any error messages during the apply process
- Re-read the settings from the controller to confirm

Profile Verification Errors

- Update your app to the latest version
- Check that your controller firmware supports the profile features
- Review individual settings for out-of-range values
- Contact support if persistent issues occur

Last update: November 1, 2025

5.6 Display settings

Accessible from menu **Display Settings**

5.6.1 Preferred units

It allows you to select units for measurement to specify various distance, speed and altitude. You could see this in the mobile app and your display.

Options

- Metric (km, m, kph=km/h)
- Imperial (mi, ft, mi/h)

Secondary unit

It controls which value to show on the display main screen for the secondary unit.

- Power, W
- · Current, A
- Efficiency, wh/distance

Protocol

For each protocol type there are two options, one normal and one Rx/Tx Swap. The last one is to help when the communications wires are inverted.



Info

When set to **Auto** the display will try to autodetect the protocol at the next startup.

Options

- Auto
- Bafang
- Lishui
- Kunteng
- Tonseng
- ASI
- Bafang Rx/Tx Swap
- Lishui Rx/Tx Swap
- Kunteng Rx/Tx Swap
- Tonseng Rx/Tx Swap
- ASI Rx/Tx Swap

Reset Trip

This setting controls when the current trip data is reset on the display. There are two options:

- 1. **Manually**: The trip will only reset when manually requested from the **Dashboard** page or from display second screen see EggRider v2 button combinations or EggRider c1 button combinations.
- 2. **At Start-up**: The trip will reset after every power cycle. However, the old trip information is retained and can be downloaded by the app until the bike starts to move.

Immobilizer

NO LOCK

Default behavior, no action taken.

LOCKED LEVEL 0 (CONNECT WITH APP TO UNLOCK)

Display will always start locked in assist level 0. You have to connect with the mobile app to unlock to be able to change the assist level or mode profile.

This is intended to cut-off the motor until connected with the mobile app. This setting will also be set if display is locked from dashboard and then power off but it has to be expressly disabled from settings (on dashboard can be disabled only temporary).

Road restrict

Option to inhibit changing profile from Road to OffRoad with the M button on the display.

If set to **Yes** you can only change profile from OffRoad to Road and based on the option use the mobile app for both ways or also the display when the app is connected.

Options are:

- No
- Yes (Change modes only from app)
- Yes (Change modes from the display when the app is connected)

Startup with road

Decides if the display should always start with the Road profile.

Options are No or Yes.

PowerOff

The time after which the display should power off.

Options

- Never
- After 5 minutes
- · After 2 hours
- · After 10 hours

Mode labels

The labels used on the display to identify the current profile settings.

Options

- · Road/OffRoad
- Eco/Support

Assist levels

The number of assist levels to be used when using Up and Down buttons. Each option also includes assist level 0.



Attention

Keep in mind that when you select lower than 9 assist levels, EggRider uses internally the levels beween () for pages like power levels or for the bafang basic assist levels. This is to allow changing the number of assist levels witouth altering the power levels.

- 3 [0, 1(1), 2(5), 3(9)]
- 5 [0, 1(1), 2(3), 3(5), 4(7), 5(9)]

Options are 9, 3 and 5

Display main screen layout

Select from 3 main display screen layouts:

- Main screen v1 clearly shows Offroad/Road labels at the top of the screen.
- Main screen v2 uses the assist level background color to differentiate modes dark for Road and white for OffRoad.
- Main screen v3 display OffRoad/Road labels and features a dynamic menu to toggle various parameters, such as power and range. Note that the EggRider v2 button combinations & EggRider V2 second screen content differ from layouts v1 and v2. This layout is available from apps and firmwares v2.7



Info

With EggRider C1, only the mainscreen layout V3 is available; other layouts are not supported. See for more: EggRider c1 button combinations & screens

Keep headlight at startup

This is a convenient feature to keep the headlight as it was before shutting down.

Options are No or Yes.



Info

This option is deprecated with firmware and app version v2.7 and above.

Mode button press function

Option to change the short and long press functionality of the M button.

Options

- Short Mode Change / Long Stats
- Short Stats / Long Mode Change

Bafang switch mode

The Road/OffRoad mode switch behavior for bafang controllers.

ONLY LIVE DATA

Consists in switching only between **Max speed Road** and **Max speed OffRoad** settings from the **Display Settings** page

LIVE DATA AND SETTINGS

Consists of switching between the **Max speed Road** and **Max speed OffRoad** setting from the **Display settings** page plus the relative **Road/OffRoad** mode for the **Bafang Basic**, **Bafang Pedal**, **Bafang Throttle** profile settings.

A

Warning

If you are an unexperienced user we highly recommend using **Only live data** setting until you get familiarised with the bafang settings.

Max speed (km/h)

Determines the speed limits for Road and OffRoad. This values can be overwritten by the specific bike/controller settings.

Wheel size

Offers some predefined **Rim + Tire** options to populate **Wheel circumference** with the right value.



Info

The **Wheel size** drop down is just a helper with predefined values for **Wheel circumference**. It is normal to go back to **Select** after the app is restarted.

Wheel circumference (mm)

This value is used to calculate the speed. Please use rim + tire value for this setting.

The following links provide comprehensive resources for determining the wheel circumference **Wheel size** math or Cyclecomputer calibration



Tip

If you think the speed measurement is not precise, you can use this field as a factor to increase or decrease your speed measurement.

5.6.2 Battery Settings

EggRider has up to 3 battery profiles. You can use these profiles to track stats independently if you have more than one battery.

Please be sure you are setting at least the battery selected profile correctly. You can leave the other battery profiles as they are by default if not used.

To maximize the **battery percentage precision**, please set the following fields correctly.

Battery used

Represents the battery profile to be used.

Options are 1st, 2nd and 3rd

Battery voltage

Offers some predefined values to populate the Voltage 0% and 100%.

Options are 24V, 36V, 48V, 52V, 72V.

4 Attention

Never connect EggRider to a battery bigger than 52V nominal. EggRider display works up to 60V when directly connected. With certain controllers we can overcome this limit by connecting to a 12V output.



Info

Battery voltage drop down is just a helper with predefined values for Voltage 0% and Voltage 100%. It is normal to go back to Select.

Voltage 0%

The empty battery voltage.

This field has a resolution of 0.01 V.

Voltage 100%

The full battery voltage.

This field has a resolution of 0.01 V.

Capacity

The capacity of the battery measured in ampere hour (Ah).

This field has a resolution of 0.01 Ah.

Last update: August 6, 2024

5.7 Display advanced settings

5.7.1 Voltage calibration

Available with firmware and mobile apps version > v2.1.0

This should be done only if the voltage displayed is not accurate or the battery percentage is not 100% after you just fully charged your battery.

The calibration is maintained once the operation is successful, so it is not necessary to repeat.



Essential

Full battery (preferably just after disconnected from the plug) or a multimeter.



Attention

Please ensure that you have the right Voltage 0% and 100% relative to your battery which can be found in EggRider settings page. You can select from the drop down Select to auto-fill these values.

Full battery method

With full battery select your battery voltage and then press Calibrate

Multimeter method

If you have a **multimeter** at hand, insert the battery voltage read with your multimeter under **FullVoltage** and then press **Calibrate**



Attention

If your voltage difference is greater than 2.5V you will receive a popup alert. If you are sure about your voltage then follow the steps used for the following example (adapt accordingly):

Voltage calibration for more than 2.5V example

EggRider voltage read is 38V and you know that the voltage should be 41.6V. (41.6V - 38V = 3.6V > 2.5V)

Steps

- 1. Write into FullVoltage 40V (38V + 2V), press Calibrate
- 2. Check that the new voltage shown on the dashboard is 40V and get back to display advanced settings
- 3. Repeat step 1, 2 until the voltage difference is lower than 2.5V
- 4. Write into FullVoltage 41.6 (40 V + 1.6 V), press Calibrate
- 5. Check that the new voltage shown on the dashboard is is 41.6V.

5.7.2 RESET BATTERY STATS

Option to reset battery statistics.

Options

- 1st Battery
- · 2nd Battery
- 3rd Battery

5.7.3 BATTERY CHARGING

This function allows you to set an alarm when the battery reaches a specific voltage. Steps to setup:

- 1. Enable Monitor charging when is locked
- 2. Select the your desired voltage
- 3. Open **Dashboard** page and press **Lock** icon
- 4. Start charging your battery
- 5. When the voltage on the dashboard will reach the voltage you set at step 2, a sound alarm and a popup will be triggered
- 6. Please see Notes below

Notes

Make sure your phone is on loud.

When you start charging the voltage should be at least 1 volt lower than your desired voltage.

This does not stop your charging, it is just an allert.

Your phone has to be connected at all time, connection loss might disable the functionality.

5.7.4 CURRENT CALIBRATION

Option to calibrate current if you know that the controller provides the current with an offset.

5.7.5 ODO Reset

Function used to permanently reset the ODO stats

5.7.6 ODO Offset

Function used to set an offset to the ODO distance in case you want to have your old display distance in the odo total distance

5.7.7 ASI password

In case you have an ASI controller that has been locked with a password, you can insert the password here so that EggRider can still change the settings

Last update: March 3, 2023

5.8 App settings

Accessible from menu **App Settings**

5.8.1 CONNECTION

Startup connection

With auto, when the app is started, it tries to connect to the latest connected display.

- Manually
- Auto at startup

Background re-connection

- No
- Retry 30 seconds
- Retry 1 minute
- Retry 5 minutes
- Retry 10 minutes
- Retry 15 minutes

5.8.2 LOCATION

Use GPS data

Enabling this functionality offers altitude measurements in the ride stats.

5.8.3 SHOW GRAPH LINES

Options

- Dark Theme (Enables dark theme for graphs pages)
- Volts (V)
- Current (A
- Speed (km/h)
- Speed GPS (km/h)
- Altitude
- Battery (%)
- Display Temp (C)
- Motor Temp (c)
- Accuracy Position (m)
- Altitude accuracy threshold the threshold for position accuracy under which it will show the altitude in the graphs

5.8.4 Others

Dashboard version

- Dashboard v1
- Dashboard v2 as Dashboard v1 plus live efficiency graphs, range and current values

Range adaptability factor

This value decides how fast the mobile app range estimation changes. A higher value will give more steadier estimation behavior while lower values will give range estimation values closer to the actual type of riding

Last update: May 26, 2022

5.9 Power levels

From app \geq = v2.5.03 and firmware \geq = v2.5.17

This page offers the possibility to adjust individually each assist level power and speed limit.

It is used for ASI and Lishui controllers. Please see the e-bike specific pages for more information.

Last update: May 26, 2022

6. eBike Settings

6.1 Ebike settings overview

The settings specific to the controller/ebike are visible after the first successful connection to the display and they show based on the protocol detection.

Settings in these pages are used for controller configuration and for profile switching between Road/OffRoad modes.

After a successful write, the settings are stored in the display memory as well as in the app's memory. Doing this successfully, settings will be visible even when the app is not connected.

Last update: May 26, 2022

6.2 Bafang

6.2.1 Bafang settings

This settings are relative only to the Bafang controllers integrated in their mid-drive units (such as the BBSxx series). Most of the times the **Bafang hub motors don't have** these settings available, since they use different controllers (such as Lishui, Kunteng, etc.)

Bafang switch mode setup

Instructions on configuring Road and OffRoad mode with different settings

If you are not familiar with the Bafang settings we recommend using **Only live data** for **Bafang switch mode** in **Display settings** page until you understand their functionality. For more information on how to proceed visit the **Mobile App/Display settings page** section.

FIRST CONFIGURATION

Do not change profile by pressing $\begin{tabular}{|c|c|c|c|c|c|}\hline M & on display during this procedure. \end{tabular}$

- 1. Make sure display is set to Road mode
- 2. Select **Live data and settings** for **Bafang switch mode** in the Display settings page, press Write then Read to check its saved.
- 3. After first connection, an automatic read for Bafang Basic, Pedal and Throttle pages will be executed. At the end of this procedure both profiles Road and OffRoad would be identical. In case of failure this action can be triggered manually from Initialize from one of the pages
- 4. Make sure to save the initial configuration from every page before modifying. (Take screenshots of all the pages).
- 5. Modify settings as desired
- 6. You have to Write successfully to be able to use switch mode from display or mobile app
- 7. Switch profile settings by pressing Road or OffRoad from any page.

SUCCESSIVE CONFIGURATIONS

- 1. Make sure display and mobile app are showing the same Road or OffRoad mode.
- 2. Follow steps 5, 6, 7 from First Configuration

A

Attention

If the app and display are out of sync, use Read controller to see the last settings written to controller by either the app/display or your own tool.

If you experience intermittent power cuts, it is most probably because you reach a speed limit or voltage cutoff. It can also be due to wrong configuration on the Pedal advanced settings.

By using a low gear, your motor may not reach its full potential.

BAFANG ERROR CODES

- E03 Brake ON (03H)
- E04 Throttle doesn't go back (in the furthest position) (04H)
- E05 Throttle fault (05H)
- E06 Low voltage protection (06H)
- E07 Over voltage protection (07H)
- E08 Hall signal wires fault on the motor (08H)
- E09 Phase wire fault on the motor (09H)
- E10 Controller temperature is too high, and reaches the protection point (10H)
- E11 Temperature sensor inside controller fault (11H)
- E12 Current sensor fault (12H)
- E13 Temperature sensor inside battery fault (13H)
- E14 Temperature sensor inside the motor fault (14H)
- E21 Speed sensor fault (21H)
- E22 BMS communication fault (22H)
- E23 Light fault (23H)
- E24 Light sensor fault (24H)
- E25 Torque sensor torque signal fault (25H)
- E26 Torque sensor speed signal fault (26H)
- E30 Communication fault (30H)

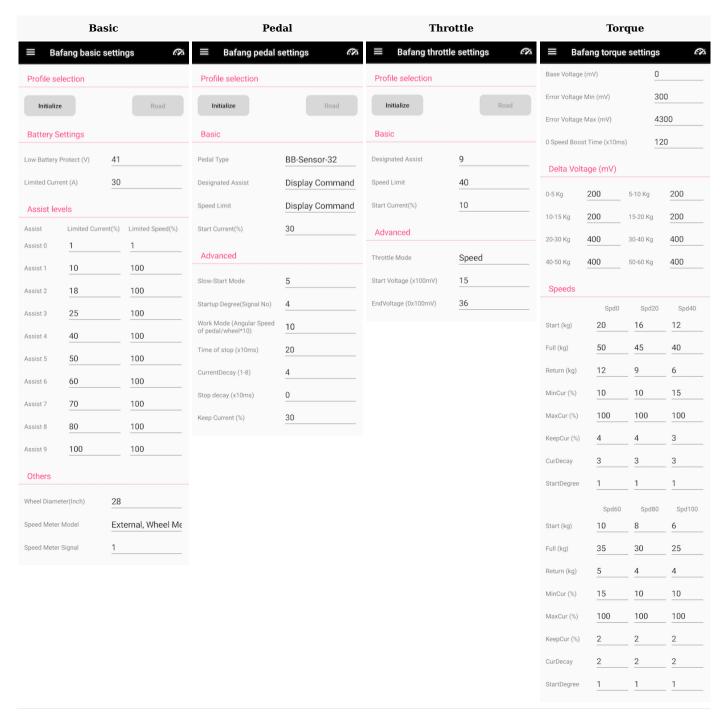
BAFANG BBS01 250W DEFAULT SETTINGS

Basic			Pedal		Throttle	
■ Bafang basic settings			≡ Bafang pedal settings		■ Bafang throttle settings	
Profile se	election		Profile selection		Profile selection	
Initializ	е	Road	Initialize	Road	Initialize	Road
Battery S	Settings		Basic		Basic	
Low Battery	Protect (V) 31		Pedal Type	DoubleSignal-24	Designated Assist	Display Command
Limited Curr	rent (A) 15		Designated Assist	Display Command	Speed Limit	40
Assist le	vels		Speed Limit	Display Command	Start Current(%)	10
Assist	Limited Current(%)	Limited Speed(%)	Start Current(%)	20	Advanced	
Assist 0	0	0	Advanced		Throttle Mode	Speed
Assist 1	28	44	Slow-Start Mode	4	Start Voltage (x100mV)	11
Assist 2	37	51	Startup Degree(Signal No)	4	EndVoltage (0x100mV)	35
Assist 3	46	65	Work Mode (Angular Speed of pedal/wheel*10)	10		
Assist 4 Assist 5	55 64	72	Time of stop (x10ms)	25		
Assist 6	73	79	CurrentDecay (1-8)	4		
Assist 7	82	86	Stop decay (x10ms)	0		
Assist 8	91	93	Keep Current (%)	20		
Assist 9	100	100				
Others						
Wheel Diame	eter(Inch) 26					
Speed Meter	Model Ext	ernal, Wheel Me				
Speed Meter	r Signal 1					

BAFANG BBSHD 1000W DEFAULT SETTINGS

Basic			Pedal		Throttle	
≡ Ba	fang basic settir	ngs 🐼	\equiv Bafang pedal settings \mathscr{C}_{λ}		\equiv Bafang throttle settings \sim	
Profile se	lection		Profile selection		Profile selection	
Initialize	e	Road	Initialize	Road	Initialize	Road
Battery se	ettings		Basic		Basic	
Low Battery P	Protect (V) 40		Designated Assist	Display Command	Designated Assist	9
Limited Curre	ent (A) <u>28</u>		Speed Limit	Display Command	Speed Limit	40
Assist lev	rels		Start Current (%)	50	Start Current (%)	10
Assist	Limited Current (%)	Limited Speed (%)	Keep Current (%)	60	Advanced	
Assist 0	0	0	Advanced		Throttle Mode	Speed
Assist 1	20	44	Pedal Type	DoubleSignal-24	Start Voltage (x100mV)	11
Assist 2	20	51	Slow-Start Mode	4	End Voltage (x100mV)	35
Assist 3	30	58	Startup Degree (Signal No)	4		
Assist 4	40	65	Work Mode (Angular Speed of pedal/wheel*10)	Undetermined		
Assist 5	50	72	Time of stop (x10ms)	25		
Assist 6	60	79	CurrentDecay (1-8)	8		
Assist 7	70	86	Stop decay (x10ms)	0		
Assist 8	80	93				
Assist 9	100	100				
Others						
Wheel Diamet	ter (inches) 26					
Speed Meter Model External, Wheel Met						
Speed Meter S	Signal <u>1</u>					

BAFANG ULTRA M620 DEFAULT SETTINGS



BAFANG BBSHD 1000W CONFIGURATION EXAMPLES



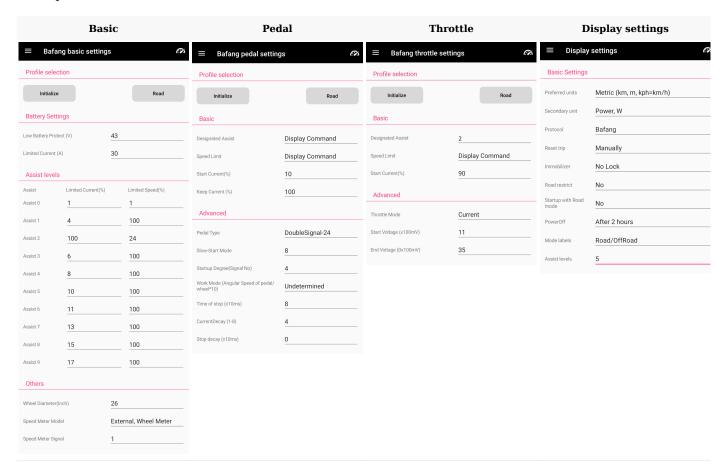
Disclaimer

The following examples are for demonstration purpose only. The EggRider V2 & C1 displays do not ensure legal compliance. Please check your local laws before riding to make sure you are riding legally and safely.

Example 1

Features

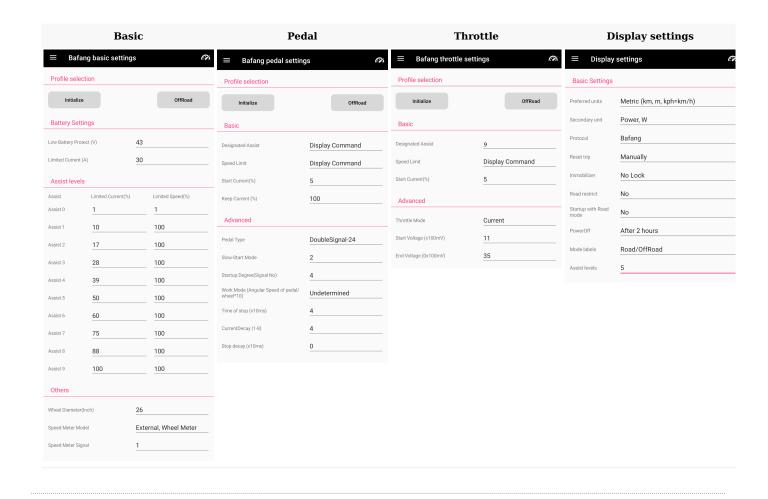
- power limited to 250w
- speed limited to 25 km/h
- throttle limited to 6 km/h (by forcing it to the specially configured **assist 2**. To disable the throttle set **designated assist** to **0** and make sure that **Assist 0** has **limited current** and **limited speed** set to **1**)
- 5 pedal assist levels



Example 2

Features

- · speed not limited
- peak power up to 1500w (not recommended to hold the throttle at 30A current draw for more than a few seconds)
- 5 assist levels (can be set to 9 in the **display settings**)
- throttle always full power (not based on the assist level selected on the display)



Last update: September 10, 2025

6.2.2 Bafang basic settings

Accessible from menu **Bafang Basic**.

Buttons

Initialize - Reads all Bafang Basic/Pedal/Throttle settings at once. After this procedure both Road/OffRoad would have identical settings.

Road or OffRoad - switch between profiles.

Read controller - reads Bafang Basic settings.

Info - provides information for the Bafang switch mode.

Write - writes the Basic settings to controller. If the operation is successful it updates the settings on the display as well.

BATTERY SETTINGS

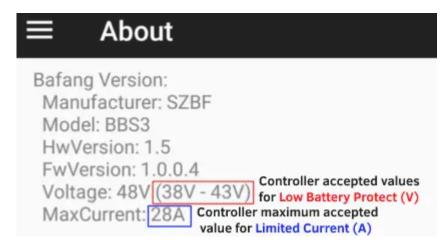


Attention

Please use settings in the range for your motor for **Low Battery Protect** and **Limited Current**. Each controller has its own harware limitations which cannot be bypassed. The controller will reject values outside its capabilities.

Example of Bafang controller limits

This can be found in the EggRider app About page.



LOW BATTERY PROTECT (V)

Value to prevent battery voltage cutoff (most likely your battery will have a BMS that will shut off power when the voltage gets too low). If your battery shuts down before reaching this value you should increase it.

If you get **Low Battery Protect (V)** error, it means means you are outside your controller accepted limits. Following the example picture above you can set values between 38V and 43V.

LIMITED CURRENT (A)

Represents the global current limit in ampere (A). This sets the power level that the drive unit will pull from the battery pack.

Current limit affects your bike power, as the following formula shows:

Battery voltage (V) * Currrent limit (A) = Power (W) (For example: 48V * 20A = 960W)

If you get **Limited Current (A)** error, it means you are outside your controller accepted limits. Following the example picture above you can set a value of maximum to 28A.



Attention

For certain types of electric bike systems, to avoid unexpected behavior, there's a requirement to set the 'Low Battery Protection' and 'Limited Current' values to be identical for both on-road and off-road modes. This change is necessary because the system controller only recognizes these settings after you've restarted it.

To achieve this same effect in a more straightforward way, you can use the 'Assist Limited Current' and 'Limited Speed' settings, adjusting them as needed in both modes.

Assist levels mapping

Each row, defines for each assist level the relative limited current and limited speed.



Tip

To have no power on Level 0, set both Current and Speed Limit to 0. In some cases it is required a value of 1.

ASSIST

Identifies the assist level

LIMITED CURRENT(%)

The percentage of the current from the Limited current (A).

For example if your bike has 250W and you set this setting to 50% you will have 125W. If you set it to 100% you will have 250W.

LIMITED SPEED(%)

The percentage of the speed limit.

Cases

- If **Speed Limit** is set to a value on **Bafang Pedal** or **Bafang Throttle** pages, then the percentage is from that value.
- If **Speed Limit** is set to **Display command**, then the percentage is from the **Max Speed Road** or **Max Speed OffRoad**.

OTHERS

WHEEL DIAMETER (INCH)

SPEED METER MODEL

Options

- External, Wheel Meter
- Internal, Motor Meter
- By Motor Meter

SPEED METER SIGNAL

The number of magnets per one wheel revolution, default ${\bf 1}$.

Last update: August 29, 2025

6.2.3 Bafang pedal settings

Accessible from menu Bafang Pedal

Buttons

Initialize - Reads all Bafang Basic/Pedal/Throttle settings at once. After this procedure both Road/OffRoad would have identical settings.

Road or OffRoad - switch between profiles.

Read controller - reads controller Pedal settings.

Info] - provides information for the Bafang switch mode.

Write - writes the Pedal settings to controller. If the operation is successful it updates the settings on the display as well.

BASIC

DESIGNATED ASSIST

The value of the assist power level.

If set to **Display command** the assist level shown on the display would be considered.

Disable pedal assist

- 1. Set **Designated Assist** to **0**
- 2. Configure Assist Levels in Bafang basic settings page
- 3. For Assist $\mathbf{0}$ set Limited Current(%) = $\mathbf{0}$ and Limited Speed = $\mathbf{0}$. In some cases value $\mathbf{1}$ should be set
- 4. Your **Pedal assist** should no longer work

Enable pedal assist - PAS dependent

- 1. Set Designated assist to Display Command
- 2. Configure Assist Levels in Bafang basic settings page
- 3. Set desired values for Limited Current(%) and Limited Speed for Assist 1 9
- 4. Your **Pedal assist** should be limited based on the PAS level you see on display

Enable pedal assist - always max power

- 1. Set **Designated assist** to **9**
- 2. Configure Assist Levels in Bafang basic settings page
- 3. For Assist 0 set Limited Current(%) = 100 and Limited Speed = 100
- 4. Your **Pedal assist** should work the same (speed and current limit) no matter what PAS level you see on display

SPEED LIMIT

The value of the speed limit.

If set to **Display command** the value from **Max Speed Road** or **Max Speed OffRoad** from **Display settings** page will be used.

START CURRENT(%)

The initial percentage of current delivered. This variable is vital for not killing the controller. The lower the Start Current is set the less power is directed to the PAS system upon startup, this will create less strain on the controller and on your bike's drivetrain when starting from a standstill, especially if you are in a gear that is too high. 100% **Start Current** will peak at well over 1000w draw. A lower value will give you a smoother acceleration.

KEEP CURRENT(%)

The percentage of current that is maintained at a certain rate of pedaling (cadence). It is the percentage of the current limit set per each level of PAS.

E.g.: For 50% current limit set for level 5, if the **keep current** is set to 70%, the keep the current limit will drop to 35% while pedaling faster(at a higher cadence), but once the cadence drops the current will increase back to the current limit set for the certain level. The pedaling cadence value can be modified by changing the value of **current decay**.

ADVANCED

PEDAL TYPE

Options

- None
- DH-Sensor-12
- BB-Sensor-32
- DoubleSignal-24

SLOW-START MODE

Controls how quickly the power ramps up.

STARTUP DEGREE (SIGNAL NO)

The number of sensor steps before the start up commences. The maximum accepted is 20. 24 is a full pedal revolution. Too few makes start-up occur with too slight a pedal movement. Lower number is less pedal movement to start the motor. Does not work properly with 1 or 0.

WORK MODE (ANGULAR SPEED OF PEDAL/WHEEL *10)

Adjusts the amount of power that can be applied to each pedal rotation. The higher the number the greater the power applied to each rotation. This might affect at what rpm peak power sits in PAS operation, changing it doesn't seem to be noticeable so we advise to leave it alone.

TIME OF STOP (X10MS)

This affects how quickly the drive stops after you stop pedaling. If you set it to 0 the PAS system ceases to work. 25 is probably too high. This setting disables the PAS if it is set less than 5. I strongly recommend setting this to 5, especially if you want to use the PAS system without using e-brakes.



Tips

Some people report that setting this lower (as low as 5) may affect the startup delay on the throttle If you set this less than 10 on the v2 of the BBS02 controllers then your PAS will not work properly at all. On the older BBS02v1 controllers and the BBSHD controllers you can set this as low as 5 before you start having issues with the PAS

CURRENT DECAY(1-8)

Determines how high up the pedal cadence rpm range it starts to reduce power, 8 being the highest. There is no detail on actual rpm speeds for the **Current Decay** setting. The lower this setting is the sooner the drive unit will start cutting back on the power as you pedal faster.

STOP DECAY (X10MS)

The amount of time the decay system takes to cut after pedaling stops.

Last update: July 19, 2024

6.2.4 Bafang throttle settings

Accessible from menu Bafang Throttle

Buttons

Initialize - Reads all Bafang Basic/Pedal/Throttle settings at once. After this procedure both Road/OffRoad would have identical settings.

Road or OffRoad - switch between profiles.

Read controller - reads controller Throttle settings.

Info] - provides information for the Bafang switch mode.

Write - writes the Throttle settings to controller. If the operation is successful it updates the settings on the display as well.

BASIC

DESIGNATED ASSIST

The value of the assist power level.

If set to **Display command** the assist level shown on the display would be considered.

Disable throttle assist

- 1. Set **Designated Assist** to **0**
- 2. Configure Assist Levels in Bafang basic settings page
- 3. For Assist $\mathbf{0}$ set Limited Current(%) = $\mathbf{0}$ and Limited Speed = $\mathbf{0}$. In some cases value $\mathbf{1}$ should be set
- 4. Your Throttle assist should no longer work

Enable throttle assist - PAS dependent

- 1. Set Designated assist to Display Command
- 2. Configure Assist Levels in Bafang basic settings page
- 3. Set desired values for Limited Current(%) and Limited Speed for Assist 1 9
- 4. Your Throttle assist should be limited based on the PAS level you see on display

Enable throttle assist - always max power

- 1. Set **Designated assist** to **9**
- 2. Configure Assist Levels in Bafang basic settings page
- 3. For Assist 0 set Limited Current(%) = 100 and Limited Speed = 100
- 4. Your **Throttle assist** should work the same (speed and current limit) no matter what PAS level you see on display

SPEED LIMIT

The value of the speed limit.

If set to **Display command** the value from **Max Speed Road** or **Max Speed OffRoad** from **Display settings** page will be used.

START CURRENT (%)

Percentage of available current when throttle initially applied.Lower values for smoother startup: 5 or 10 gives a much smoother startup. This can be set all the way down to 1.

ADVANCED

THROTTLE MODE

Options

- Speeed
- Current



Switching this to Current Mode (instead of Speed mode) has an improvement in the throttle response smoothness.

START VOLTAGE (X100MV)



Do not change this value unless you really know what you are doing.

This is the throttle input starting voltage. The point at which the controller responds to input is at 1.1 volts, so set value to 11 which = 1.1 volts. As you begin to roll on the throttle the voltage moves up from zero and when it reaches 1.1v the motor begins to turn. Best to leave between 10 and 15. Too low and the display will throw an error as the motor will want to run continuously. If you change the throttle you will need to find the new lowest setting.

END VOLTAGE (0X100MV)



Do not change this value unless you really know what you are doing.

You can set the max range to 42 which is the max input the controller accepts from throttle input 4.2v. If you set lower than this value your throttle response is not as linear or smooth as it could be.

Last update: July 19, 2024

6.2.5 Bafang torque settings

Accessible from menu **Bafang Torque Settings**.

This page can be used only with Bafang mid-drive motors with torque sensors. The fact that the page is available in the app doesn't mean your motor has torque sensor.

These settings don't change when switching modes Road/OffRoad. They are changed only when programming from the app.

Basic Settings

BASE VOLTAGE

ERROR VOLTAGE MIN (MV)

ERROR VOLTAGE MAX (MV

0 SPEED BOOST TIME (X10MS)

Delta Voltage (MV)

Speeds

Last update: July 19, 2024

6.3 Lishui settings (LSW)

Accessible from menu **Lishui**

Consists of common settings section shared by both profiles Road and OffRoad and profile independent settings.

Read - reads the settings stored on the display

Write - writes the modified settings to the display.



Attention

After writing settings, turn off your display from the Power button in order to save the settings permanently. Some settings take effect only after a power on/off cycle.

Lishui controllers do not broadcast factory setting values, so in particular cases you have to find the right settings for your controller by trying different combinations.

6.3.1 Settings explanation

PAS type

Side on which the PAS sensor is mounted. However there are many cases where the bike manufacturer modifies the sensor slightly, so please use the other way around if the assist doesn't work correctly.

Options

- Left
- Right

Speed sensor magnets number

Represents the number of magnets used for speed measurement. Most hub motors have an additional hall switch on the shaft for speed measuring purposes. In this case please set it to 1. Some other might have the speed sensor on the motor before the reduction, if that is the case please set it to 5.

Voltage cutoff base

The base under-voltage protection at controller.

Options are

- 21V for 24V batteries
- 31.5V for 36v batteries
- 42V for 48v batteries

Wheel size

Internal controller wheel size in inches. This is used for internal controller speed limit purposes and it does not affect the speed measurements of the display.

Options are 16", 18", 20", 22", 24", 26", 700C, 28"

Assist pulse delay

This settings determines how fast the motor assist starts when using the pedals. Lower values will make the motor assist quicker.



Attention

To avoid accidental power on we recommend using a value that starts the motor assist after at least half turn of the pedals

PAS gain

Can be a value between 0 and 255 and is correlated to the PAS number of magnets. Example of values:

- 128 for PAS with 6 magnets
- 64 for PAS with 12 magnets

This field can have different behavior but mainly is the pedal assist power

Throttle limited by PAS level

Options

- Yes Throttle power is limited by the assist level
- No Throttle has maximum power all the time regardless of the assist level

Throttle limited to 6 Km/h

Options

- Yes Throttle works only up to 6 kph.
- No Throttle is available at any speed

PAS startup acceleration

The power ramp for assist. Lower value means softer start.

Options are 0, 1, 2, 3.

Voltage cutoff deviation (0.1 V)

Value to fine tune the battery voltage cutoff. If your battery shuts down before reaching 0% this should be increased.

You have to sum this value to the base cutoff voltage to get the actual voltage cutoff the motor will impose.

For example if voltage cutoff base is 31.5V and voltage cutoff deviation is -2.5V then your actual voltage cutoff will be 29V.

This field accepts values between -12.6 and 12.7v with increments of 0.1 volts.

Current limit (0.5 A)



Attention

Please do not exceed the maximum current you can find on your controller label. Also keep in mind that some controllers are not accepting values lower than a threshold resulting in defaulting to a specific value.

Value to set main power of the bike. Lower value means lower power.

This field accepts values between 0A to 31.5A with increments of 0.5 ampere.

Speed limit

Internal controller speed limit at which assistance is stopped.

Running strategy

These are different algorithms strategies to try to overcome some of the Lishui protocol limitations.

NORMAL

When using **Normal strategy**, only the speed % values from the power levels are utilized, while the power % values are ignored.

This can have a different result based on the controller configuration. Some Lishui controller are limited in speed, so this option will change the speed limit of each assist level. Other Lishui controllers are limited in current so this option will change the current limitation of each assist level.

CURRENT SIMULATION

When using Current simulation strategy, both values power % and speed % are utilised.

Power % is used to change the current limit and speed % is used to limit the assistance based on the display settings speed limits.

In this mode throttle will be limited by pass level even if the option is set to No in the settings.



Attention

Please keep in mind that if **Power** % * **Current limit** is lower than the controller accepted threshold then it will default to a defined value which will be higher which will result in an undesired assist level behavior.

RAD

Rad strategy mimics the original RadPower display running mode. When this option is used, you should set to 5 assist levels from display settings.

For more settings on RAD bikes, please see Rad

Power levels maps are ignored when using this option.

Last update: July 23, 2024

6.4 EggRider V2 Mate X settings

Accessible from menu **Lishui**

All mate X version have Lishui controllers. For information about each setting option please consult the Lishui settings page



Attention

If speed shows --.- km/h on EggRider display, please reset to default factory settings with the following procedure When the display is off, press M+ Power until display turns on. (You should see **Load default settings**)

0

Important

If you received your display with an adapter please make sure it is connected correctly. Wrong connection can damage the display and the bike.



Please check:

- Current Limit
- · Running strategy

6.4.1 Settings example



Attention

 $Make \ sure \ to \ change \ \textbf{Current limit} \ according \ to \ your \ controller \ parameters. \ Usually \ they \ can \ be \ found \ on \ the \ controller \ label.$

If you want to increase the speed limit above 41 km/h, you can change wheel size to 16" on the **Lishui settings** page. This change will affect all speed limits.

If speed measurements don't seem to be correct, please use **wheel circumference** from **Display settings** page to adjust.

Mate X 750W Taiwan version

	Power	Levels		Display				Lishui		
≡ P	ower levels		(4)	■ Displ	■ Display settings			≡ Lishui settings		
Power le	Power levels mode specific			Basic Settings				Lishui common settings		
F	Paran	neter OffR	oad	Preferred units	Metric (km, m, kph=km/h)		km/h)	PAS Type	Left	
Power %	Speed %	Power %	Speed %	Secondary unit	Power, W	1		Speed sensor magnets number	1	
20	Power	level 1 20	100	Protocol	Lishui O	Lishui Rx/	Tx Swap	Voltage cutoff base	42V	
	Power			Reset trip	Manually	,		Wheel size	22"	
30	100	30	100	Immobilizer	No Lock			Lishui mode specific settings		
	Power			Road restrict	No				Parameter	
40	100	40	100	Startup with Road mode	No			Road	OffRoad sist pulse delay	
50	Power l	level 4 50	100	PowerOff	After 5 m	ninutes		1	1	
	Power	level 5		Mode labels	Road/Of	fRoad		255	PAS gain 255	
60	100	60	100	Assist levels	5				limited by PAS level	
70	Power l	level 6	100	Display main scr	een layout	Main Sc	reen V2	Yes	No No	
70	100	70	100	Keep headlight a	t startup	No		Throttl	e limited to 6km/h	
80	100 Power	80 80	100	Mode button pre	ss function	Short - N	Mode Chang		artup acceleration	
	Power	level 8		Max speed Road	(km/h)	25		1	3	
90	100	90	100	Max speed OffRo	oad (km/h)	45		Voltage co	utoff deviation (0.1 V)	
100	Power I	level 9 100	100	Wheel size		Select			rent limit (0.5 A)	
				Wheel circumfere	ence (mm)	1780		15	20	
				Battery Setti	ings			25 km/h	Speed limit 41 km/h	
				Battery used	1st Batte	ry		20 ((1))	TI MILITI	
					1st	2nd	3rd			
				Battery voltage	48V	Select	Select			
				Voltage 0% (0.01 V)	43.55	41.5	41.5			
				Voltage 100% (0.01 V)	54.6	54.6	54.6			
				(0.01 Ah)	14	10.4	10.4			

Last update: August 29, 2025

6.5 Rad Power Bikes

6.5.1 Rad settings

Accesible from menu **Lishui**. The display protocol used should be Lishui or Lishui Rx/Tx. For more details, please see Lishui settings page.

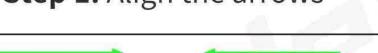
For model compatibility, please see rad compatibility list.

The EggRider Rad version can have green or black connector but it is important to be a screw connector as shown in the pictures below.



How to connect EggRider to Rad bikes







Step 2: Gently push the connectors together

DO NOT TWIST THE CONNECTORS!



If you twist the connectors you will permanently damage your **EggRider** and this is NOT covered under WARRANTY



Step 3: Gently secure the silver screw





A

Attention

If speed shows --.- km/h on EggRider display, please see section protocol detection.

Example Settings

EggRider offers different type of strategies depending on your needs:

- Current Limit
- Running strategy



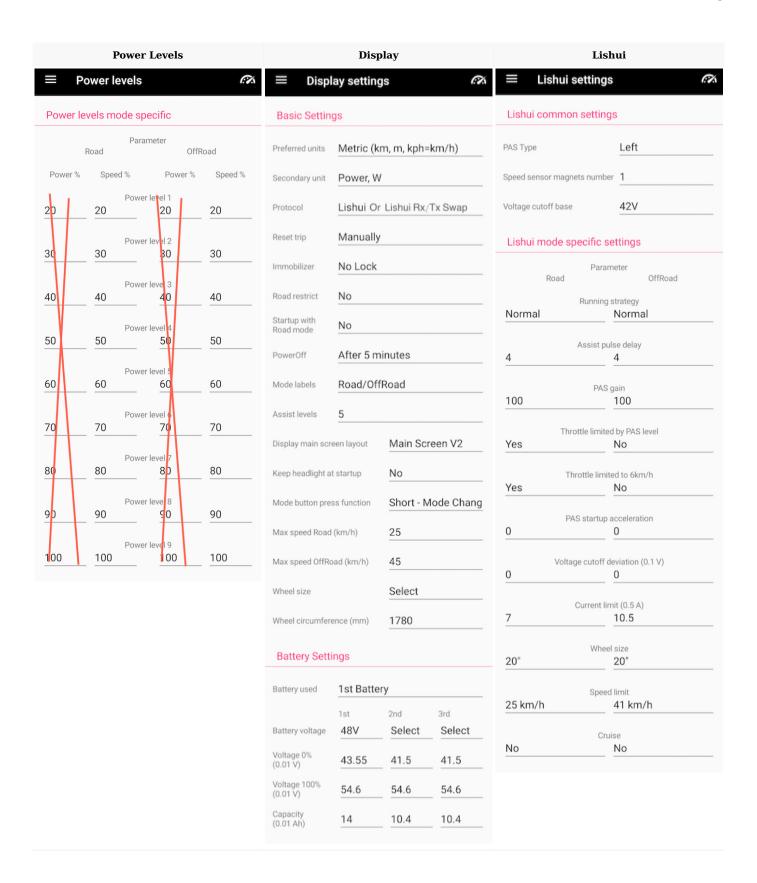
Attention

Ensure you adjust the Current limit to match your controller's specifications, which are usually listed on the controller label.

- If you want to increase the speed limit above 41 km/h, you can change wheel size to 16" on the **Lishui settings** page. This change will affect all speed limits.
- If speed measurements don't seem to be correct please use **wheel circumference** from **Display settings** page to adjust.

RAD RUNNER CONFIGURATION EXAMPLE

Please keep in mind that when $Running\ strategy$ is set as $Normal\$ only the $Speed\ \%$ values are used.



RAD WAGON CONFIGURATION EXAMPLE

- If Power % and Current limit are set too low, the controller might use a higher default value than the calculated value (Power % / 100 * Current limit).
- \bullet If set too high, the controller might use a lower default value.
- The limits can vary from controller to controller so you might have to find the limits that work for you.
- Speed limits for "Power levels" are taken from the EggRider display settings.

	Power Levels	Display				Lis	shui	
≡ Po	ower levels	C.	■ Displ	ay settin	gs	es.	■ Lishui settings	
Power le	vels mode specific		Basic Settin	gs			Lishui common settir	ngs
	Parameter Road	OffRoad	Preferred units	Metric (k	m, m, kph=	km/h)	PAS Type	Left
Power %	Speed % Power	er % Speed %	Secondary unit	Current,	A		Speed sensor magnets numb	per 1
35	Power level 1 50	100	Protocol	Lishui O	r Lishui Rx/	Tx Swap	Voltage cutoff base	42V
38	Power level 2 100 55	100	Reset trip	Manually	/		Lishui mode specific	settings
30	Power level 3		Immobilizer	No Lock			Para Road	ameter OffRoad
41	100 60	100	Road restrict	No				g strategy
44	Power level 4 100 65	100	Startup with Road mode	No			Current simulation	Current simulation
	Power level 5		PowerOff	After 5 m	ninutes		Assist p	oulse delay 4
47	100 70	100	Mode labels	Road/Of	fRoad			S gain
50	Power level 6 100 75	100	Assist levels	5			100	100
	Power level 7		Display main scr	een layout	Main Sc	reen V2	Yes	ted by PAS level
53	100 80	100	Keep headlight a	t startup	No		Throttle lim	nited to 6km/h
56	Power level 8 90	100	Mode button pre	ss function	Short - M	1ode Chang		p acceleration
50	Power level 9	100	Max speed Road	(km/h)	25		0	0
59	100 100	100	Max speed OffRo	oad (km/h)	45		Voltage cutoff	deviation (0.1 V)
			Wheel size		Select		Current	limit (0.5 A)
			Wheel circumfer	ence (mm)	2400		19.5	19.5
			Battery Sett	ings			28"	eel size 28"
			Battery used	1st Batte	ery			ed limit
			P-ttlt	1st	2nd	3rd	25 km/h	41 km/h
			Battery voltage Voltage 0%	48V 43.55	Select 41.5	Select 41.5	No	ruise No
			(0.01 V) Voltage 100%	54.6	54.6	54.6		
			(0.01 V) Capacity	14	10.4	10.4		
			(0.01 Ah)		10.7	10.7		

Last update: July 23, 2024

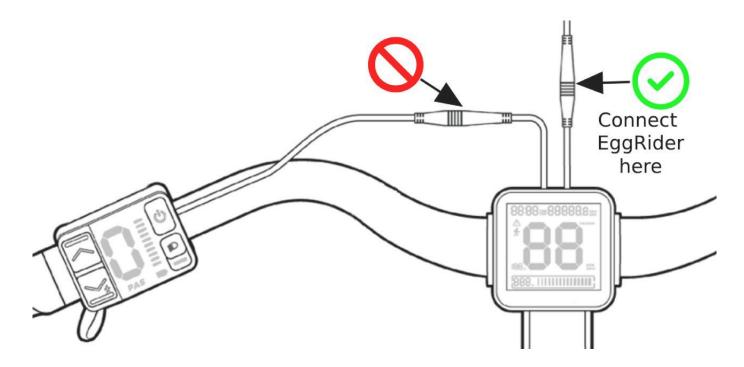
6.5.2 Radv2 settings

Accesible from menu **ASI**.

For model compatibility, please see radv2 compatibility list.

How to connect EggRider display to Rad bikes

Disconnect the connector that links the Rad LCD display to your bike (not the remote). Then, connect the EggRider display to the connector that was originally attached to the Rad LCD. For a visual reference, please see the picture below:



Attention

Reset your display to initial settings

RadV2 comes with pre-configured settings. To get back to the initial settings, please reset to default factory settings with the following procedure: when the display is off, press \bigcirc + \bigcirc -Power until display turns on. (You should see **Load default settings**). For more, see EggRider v2 button combinations or EggRider c1 button combinations.

Important ASI settings



Attention

Please use your judgment when adjusting values. Exceeding manufacturer specifications can shorten your bike's lifespan. Before increasing any parameters in ASI settings, test for short periods and monitor performance and temperature in different scenarios like flat ground and uphill.

THROTTLE MAX POWER (W)

Only applies to Rad bikes with throttle. This setting controls the motor's maximum power output (in watts) when the throttle is fully engaged. Higher values boost acceleration and top speed, while lower values enhance battery life and provide smoother power delivery.

PAS MAX POWER (W)

This setting controls the maximum power output (in watts) that the motor delivers when using the Pedal Assist System (PAS). Higher values provide stronger assistance while pedaling, enhancing acceleration and climbing ability. Lower values conserve battery and provide a more moderate assist.

MOTOR PHASE CURRENT (A)

This setting controls the current (measured in amps, A) supplied to the motor's phases. Adjusting this parameter can affect the motor's torque output and overall performance. Higher current settings typically increase torque but may also affect battery consumption and heat generation.

BATTERY CURRENT LIMIT (%)

The battery current limit determines the maximum current that can be drawn from the battery. However increasing the battery current limit may lead to faster and more robust torque assistance.

PAS MAX SPEED

This setting determines the maximum speed (in miles per hour, for example) that the Pedal Assist System (PAS) will provide. It sets an upper limit regardless of the PAS level selected.

More settings definitions can be found ASI settings.

Example Settings

RADV2 CONFIGURATION EXAMPLE

Power Levels				Display				ASI		
≡ Po	ower lev	els	(%)	■ Display settings				≡ As	i settings	
Power le	vels mod	e specific		Basic Settings				ASI mode	specific settings	
1	Road	Parameter	OffRoad	Preferred units	Metric (k	m, m, kph=	km/h)	R	Parameter Road OffRoad	
Power %	Speed 9	% Pow	er % Speed %	Secondary unit	Current,	A		250	Throttle Max Power (W) 800	
20	20	Power level 1	100	Protocol	ASI				PAS max power (W)	
		Power level 2	100	Reset trip	Manually	/		250	500	
30	30		100	Immobilizer	No Lock			50	Motor phase current (A) 50	
40	40	Power level 3	100	Road restrict	No				Regen ratio (%)	
50		Power level 4	100	Startup with Road mode	No			0	0	
50	50	50	100	PowerOff	After 10	hours		6	Throttle Max Speed 40	
60	60	Power level 5	100	Mode labels	Road/Of	fRoad			Pas Max Speed	
70	70	Power level 6	100	Assist levels	9			25	50	
, ,		Power level 7		Display main scr	een layout	Main Sc	reen V1	100	Battery Current Limit (%) 100	
80	80	80	100	Mode button pre	ss function	Short - N	Mode Chang	0	Field Weakening (Max 50%)	
90	90	Power level 8	100	Max speed Road	l (km/h)	25		<u> </u>		
		Power level 9		Max speed OffRo	oad (km/h)	70				
100	100		100	Wheel size		Select				
				Wheel circumfer	ence (mm)	2200				
				Battery sett	ings					
				Battery used	1st Batte	ery				
				Battery voltage	1st Select	^{2nd} Select	3rd Select			
				Voltage 0% (0.01 V)	43.55	43.55	43.55			
				Voltage 100% (0.01 V)	54.6	54.6	54.6			
				Capacity (0.01 Ah)	11	11	11			
				(0.01 All)						

Last update: August 29, 2025

6.6 Kunteng settings (KT)

Accessible from menu Kunteng



Attention

 $RadPower\ Bikes\ with\ a\ upgraded\ \textbf{Kunteng}\ controller\ are\ not\ compatible\ with\ EggRider\ display.$

Consists of one common settings section shared by both profiles Road and OffRoad and profile independent settings.

Speed limits are used from EggRider display settings page.

Read - reads the settings stored on the display

Write - writes the modified settings to the display.



Attention

After writing settings, turn off your display from the Power button in order to permanently save the settings.

6.6.1 Settings example

	Dis	play		Kunteng				
≡ Displ	ay setting	gs	æ.	≡ Kunteng settings ✓				
Basic Setting	gs			Kunteng common settings				
Preferred units	Metric (km, m, kph=km/h)		Motor speed demultiplier (P1)	100				
Secondary unit	Current, A		Wheel speed pulse signal (P2)	1				
Protocol	Kunteng Rx/Tx Swap			Assist mode (P3)	Torque Max Power			
Reset trip	Manually	,		PAS no of magnets (C1)	6			
Immobilizer	No Lock			Phase codification (C2)	0			
Road restrict	No			Wheel size	26 in			
Startup with Road mode	No			Kunteng mode specific	settings			
PowerOff	After 5 m	ninutes		Param Road	eter OffRoad			
Mode labels	Road/Of	fRoad		Low voltage c				
Assist levels	5				0 V (20V 30V 40V)			
Display main scr	een layout	Main Scr	een V2	None ABS Brea	None			
Keep headlight a	t startup	No		Strength P/	AS (C14) General			
Mode button pres	ss function	Short - M	lode Chang	Throttle mod				
Max speed Road	(km/h)	25			Yes			
Max speed OffRo	oad (km/h)	45		Current Limi	it (%) (C5) 100%			
Wheel size		Select						
Wheel circumfere	ence (mm)	2400						
Battery Setti	ings							
Battery used	1st Batte	ry						
D-11	1st	2nd	3rd					
Battery voltage Voltage 0%	48V	Select	Select					
(0.01 V) Voltage 100%	43.55	41.5	41.5					
(0.01 V) Capacity	54.6	54.6	54.6					
(0.01 Ah)	14	10.4	10.4					

6.6.2 Kunteng Common Settings

Motor speed demultiplier

Wheel speed pulse signal (P2)

Options are 0, 1, 2, 3, 4, 5, and 6.

Assist mode (P3)

Options

- Speed control / PAS Gear Ratio
- Torgue I Max Power

PAS no of magnets(C1)

Options are 0, 1, 2, 3, 4, 5, 6 and 7.

Phase codification

Options are 0, 1, 2, 3, 4, 5, 6 and 7.

Wheel Size

Options are 6 in, 8 in, 12 in, 14 in, 14 in, 16 in, 18 in, 20 in, 22 in, 24 in, 26 in, 700c and 28 in.

6.6.3 Kunteng Mode Specific Settings

Low voltage cut-off (C12)

OPTIONS

- -2V()
- -1.5V
- -1V
- -0.5V
- 0V
- +0.5V
- \bullet +1V
- +1.5V
- +2V

ABS brake (C13)

Options

- None
- Minimum Motor Brake
- Low Motor Brake
- Medium Motor Brake
- High Motor Brake
- Maximum Motor Brake

Strength PAS(C14)

Options

- Weaker
- General
- Stronger

Throttle mode(P4-C4)

Options

- Yes
- 6km/h
- 12km/h
- Assist
- No

Current limit (%) (C5)

Options are 50%, 67%, 75%, 80%, 83%, 87%, 91% and 100%.

Last update: July 19, 2024

6.7 ASI - Accelerated Systems Inc settings

Accessible from menu ASI settings

Read] - reads the settings stored on the display

Write - writes the modified settings to the display.

Requires EggRider display firmware >= v2.4.83 and ASI firmware controller version >= V5.921

For first time use please ensure to write ASI settings and power off display from Power button.

At each m press on EggRider display, the relative profile settings are written to the controller but they are not permanently saved on the controller.

Required Asi controller configuration

- Flash parameter read access code (address 62) 0
- Display Protocol (address 66) Disabled
- Assist Mode Source (address 210) Network Gains

Pinout setup for batteries bellow 60v fully charged

Do not confuse with nominal voltage. A 52v battery fully charged goes to 58.8v

ASI BAC500/800 pin #	ASI pin function	EggRider pin function
16	Gnd	GND
17	Display Rx	TxD
18	Display Tx	RxD
21	Key out	P+
22	Key in	Power Lock

Necessary pinout setup for batteries over 60V

Please do not connect EggRider to a power source over 60v as it will permanently damage the display.

With ASI controller to go above 60v you **MUST** connect the EggRider display to the 12v output. This configuration requires an external switch to power on/off the controller.

This setup will loose the functionality to power on/off the controller from EggRider display, but still requires to start the display after the main switch has been powered on.

Start sequence:

- 1. Main Switch/key turn/press ON (power the controller)
- 2. Press power button on the display (Turns ON EggRider)

Stop sequence:

- 1. Press power button on the display (Turns Off EggRider and also save settings/data)
- 2. Main Switch/key turn/press OFF (cuts power to controller)

CONNECTION FOR BAC500, BAC555, BAC800, BAC855

Mount a switch between ASI pins # 21 and # 22 or between your battery + pole and ASI pin # 22. Another option is to short circuit the ASI pin # 21 and 22 which will power on the controller automatically when the battery is on.

ASI pin #	ASI pin function	EggRider pin function	Notes
13	+12V (90mA max!)	P+	
16	Gnd	GND	
17	Display Rx	TxD	
18	Display Tx	RxD	
-	-	Power lock	Keep free
21	Key out	-	Connect to ext switch
22	Key in	-	Connect to ext switch

CONNECTION FOR BAC2000, BAC4000, BAC8000

Mount a switch between your battery + pole and ASI pin # 9

You should definitively secure this wire section with a 500mA fuse.

ASI pin #	ASI pin function	EggRider pin function	Notes
16	+12V (50mA max!)	P+	
14 or 15	Gnd	GND	
13	Display Rx	TxD	
3	Display Tx	RxD	
-	-	Power lock	Keep free
9	Key in	-	Connect to ext switch key from batt+

6.7.1 ASI settings definitions



Attention

Please use your judgment when adjusting values. Exceeding manufacturer specifications can shorten your bike's lifespan. Before increasing any parameters in ASI settings, test the system in short periods on flat ground to monitor performance and temperature.

Throttle max power (W)

Only applies to bikes with throttle. This setting defines the maximum power (in watts) that the motor can deliver when the throttle is fully engaged. It determines how much power the motor can output under full throttle, affecting acceleration and overall performance.

PAS max power (W)

This parameter specifies the maximum power (in watts) the motor will use during Pedal Assist System (PAS) operation. Higher values provide stronger assistance while pedaling, enhancing acceleration and climbing ability. Lower values conserve battery and provide a more moderate assist.

Motor phase current (A)

Motor Phase Current refers to the amount of current (in amps) flowing through each phase of the motor. This setting influences the motor's torque and efficiency. Higher current settings typically increase torque but may also affect battery consumption and heat generation.

Regen ratio (%)

The Regen Ratio represents the percentage of energy that is recovered and fed back into the battery during regenerative braking. A higher percentage means more energy is recuperated, improving overall efficiency.

Throttle max speed

Throttle Max Speed indicates the highest speed that the bike can reach when the throttle is fully applied. This setting limits the maximum speed achievable through throttle control.

Pas max speed

This setting determines the maximum speed (in miles per hour, for example) that the Pedal Assist System (PAS) will provide. It sets an upper limit regardless of the PAS level selected.

Battery current limit (%)

The battery current limit determines the maximum current that can be drawn from the battery. However increasing the battery current limit (e.g.100%-120%) may lead to faster and more robust torque assistance.

Field weakening (Max 50%)

Field Weakening is a technique used to extend the maximum speed of the motor beyond its normal limits. The "Max 50%" indicates the maximum allowable weakening of the magnetic field, which can increase the motor's speed but may reduce efficiency.

Last update: July 19, 2024

7. EggRider display compatibility

If you want to check compatibility with your bike please complete EggRider compatibility form.

There are two main things to consider for compatibility:

- Hardware voltage, connector and pinout compatibility
- Software communication protocol compatibility



Having the same connector/pinout or bike model doesn't guarantee a compatibility.

Don't make a connection if connectors are not the same type. Do not use unauthorized adapters such as female to female and male to male adapters because most likely they will burn the display and controller.



7.1 How to find out controller brand?



Attention

It is important to identify your controller brand, do not confuse this with the motor brand.

You can find the controller by following the display cable.

The hub motor ebikes mostly have the controller in an aluminum box attached to the frame or integrated in the battery mount or the bike frame.

If you have a **hub wheel motor**, most probably your controller is Kunteng or Lishui.

If you identified your controller as Kunteng(KT) or Lishui(LSW), keep in mind that there are more types of connectors, not only julet/higo 5 pin waterproof.

7.2 Compatibility list

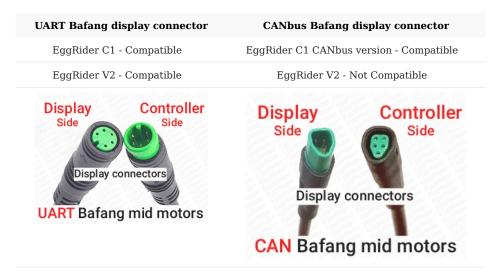
7.3 Bafang hub motors

Bafang hub motors are not neccesarly compatible. It is important to understand what controller brand you have. For more information, see the section above on How to find out the controller brand

7.4 Bafang mid drive motors

Bafang mid-drive motors have integrated controllers that are categorized into two types based on their communication protocol

- 1. UART communication Compatible
- 2. CANbus communication
 - EggRider C1 CANbus version Compatible
 - EggRider V2 Not Compatible



Bafang mid drive ebikes have the controller integrated into the motor and the type is written on the case.

7.4.1 UART Bafang mid motors

- Bafang BBS01 250W 350W 500W 750W
- Bafang BBS02 250W 350W 500W 750W
- Bafang BBS03 BBSHD LUNA 750W 1000W 1500W 2500W Ludacris
- Bafang Ultra M620
- Bafang Ultra 1000W
- Bafang MM G510 1000
- Bafang M600

- Bafang Max
- Bafang MM G320
- Bafang MM G330 250
- · Bafang MM G340
- Bafang M300
- Bafang M400

7.4.2 CANbus Bafang mid motors

Currently only EggRider C1 CANbus version is compatible with Bafang CAN motor systems

- Bafang BBS01 CAN
- Bafang BBS02 CAN
- Bafang BBSHD CAN
- Bafang M820
- Bafang M620
- Bafang M560
- Bafang M510
- Bafang M430
- Bafang M410
- Bafang M210
- Bafang M615 (BBSHD)
- Bafang M315 (BBS02)
- Bafang M215 (BBS01)

7.5 Bafang hub drive controllers

If your hub controller looks like the picture below, has the Bafang logo, and the connectors match, the EggRider display is most likely compatible. You will also have access to the standard Bafang mid-drive system settings.

To confirm, please fill out the EggRider compatibility form.





7.5.1 UART Bafang hub controllers:

- Bafang CRS107.1000.SN.U 3.0
- Bafang CRS1064820

7.6 Mate bikes

Compatible with all $\boldsymbol{Mate}~\boldsymbol{X}$ versions. Please select Mate X EggRider version.



Attention

Mate classic bikes are not compatible with EggRider display.

Bike compatibility list:

- MATE X 250
- MATE X 250+
- MATE X 750S
- MATE City 250

Controllers supported:

- Lishui LSW1545-5-2M
- Lishui LSW856-66M
- Lishui LSW856-66-1M



Attention

EggRider is not compatible with the following Mate X Controllers:

• YCSH-C

Motors supported:

- Bafang RM G060.750.DC 48V 750W SWX02
- Shengyi DGW25 SY25N4820TA 48V 250W
- Shengyi DGW25 SY254820SJ 48V 500W
- JiaBo CZJB JB-104C2 24V-60V 750W

Replaces the following displays:

- Key-Disp KD51C-D
- Bafang DPC-14 / 850C 3.2-inch MATE-customized TFT LCD color display
- Ukriver UKC1 / UK-CT-18 / UKCT-18 3.5-inch MATE-customized TFT LCD color display

7.7 RadPower bikes



Attention

 ${\tt EggRider}\ is\ not\ compatible\ with\ RadPower\ bikes\ with\ upgraded\ \textbf{Kunteng}\ (\textbf{KT})\ controllers.$

 ${\tt EggRider\ offers\ 2\ different\ versions\ for\ RadPower\ bikes.}$

If you are unable to find your specific bike model in the Rad and Radv2 lists below, please complete EggRider compatibility form.

7.7.1 Rad

Compatible RadPower bikes feature a 5-pin screw connector for the display as shown below and use a Lishui controller;



EggRider Rad compatible with the following models:

- RadExpand 5
- RadCity 1/2/3/4
- RadMini 1/2/3/4
- RadMission 1
- RadRhino 1/5
- RadRover 1/2/3/4/5
- RadRunner 1/1 Plus/2
- RadWagon 1/2/3/4

7.7.2 Radv2

Compatible RadPower bikes that use ASI controller and feature 5-pin julet connector for display as shown below:



Compatibility Warning

Compatibility is only guaranteed for models equipped with the ASI controller. Certain models may now utilize incompatible thirdparty controllers; always confirm your specific controller type before attempting configuration.

EggRider Radv2 is compatible with the following models:

- RadCity 5 Plus
- RadRhino 6 Plus
- RadRover 6 Plus
- RadRunner 3 Plus
- RadTrike 1

7.8 Urban Drivestyle bikes



Attention

If you can't find your model in the list below or you want to be sure about compatibility, please provide the information required here

Compatible Urban Drivestyle bikes:

- Unimoke V4
- Unimoke V5
- Unimoke V6

7.9 CoastCycles bikes:

Compatible bikes:

- Buzzraw
- Buzzraw X

7.10 Lishui (LSW) controllers

Lishui has different models of controllers. Some of them are compatible, some are not. It is important to provide us with the code on the controller so we can make a list of compatible controllers.

 	list
Controller	Compatibility
Lishui LSW1599-4M	
Lishui LSW 1350	
Lishui LSW943-217-1M	
Lishui LSW686-21F	
Lishui LSW 947-54F	
Lishui LSW352-89F	
Lishui LSW1584-1M	
Lishui LSW1596-2F	
Lishui LSW765-28-48F	
Lishui LSW1332-47F	
Lishui LSW1545-5-2M	
Lishui LSW1545-5-2-1M	
Lishui LSW856-66M	
Lishui LSW856-66-1M	
Lishui LSW781-62-7	
Lishui LSW-1405-4-7F	
Lishui LSW352-89FA	
Lishui LSW1023-3-2	
Lishui LSW1350-11-1F	
Lishui LSW125-11-1M	
Lishui LSW1106-58-020F	
Lishui LSW1188-29-1F	
Lishui LSW1433-2F	
Lishui LSW1155-37M	
Lishui LSW1568-13-4M	
Lishui LSW1497-2-1f	
Lishui LSW1659-14F	
Lishui LSW1662-1F	

7.11 Accelerated Systems Controllers

ASI controllers are compatible with EggRider V2 and C1 displays if you have access to Bacdoor app. Please provide us picture with your display cable, battery voltage and controller model.

Please read our dedicated page for more information

- ASI BAC 300
- ASI BAC 500
- ASI BAC 800
- ASI BAC 355
- ASI BAC 555
- ASI BAC 855
- ASI BAC 4000
- ASI BAC 8000

7.12 CYC Motor

CYC motors that use ASI controllers are compatible.



Special connection is required if you have battery greater than 52V. Please read our dedicated ASI page for more information $\frac{1}{2}$

Compatible versions

- CYC motor X1 Pro Gen 2 with controller ASI BAC855 or BAC2000
- CYC motor X1 Stealth with controller ASI BAC855

7.13 Kunteng (KT) Controller



RadPower Bikes with a upgraded **Kunteng** controller are not compatible with EggRider display.

7.14 Ride1Up bikes

Bike compatibility list:

• Ride1UP Roadster v2

Controllers supported:

• LD-FZ-106

7.15 Other compatible bikes

• Aostirmotor S07-B

- Voltbike Yukon 750 Limited
- Mycle Cargo Electric Bike

7.16 Other systems

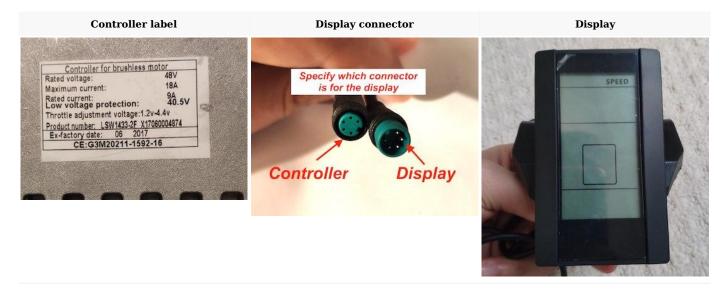
If you are still unsure and would like us to check compatibility, please complete EggRider compatibility form.

- bike brand
- · bike model
- year of manufacture
- picture of controller label
- picture of display connector display side
- picture of display connector controller side
- picture of display

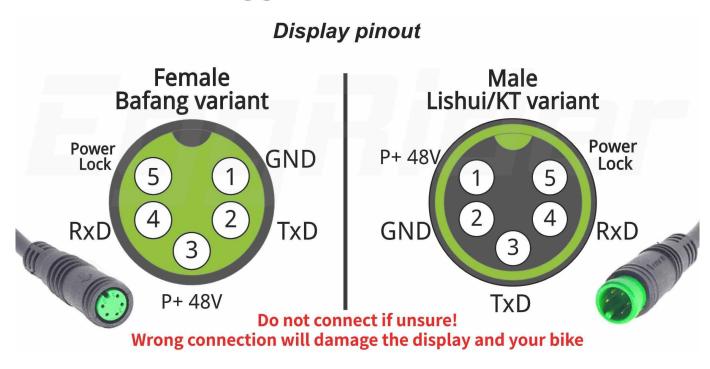


For display connector pictures please specify which connector goes to controller and which to display

See the example pictures below.



EggRider V2 & C1



Last update: November 22, 2025

8. Troubleshooting

8.1 Solve mobile app connection problems

8.1.1 My phone doesn't connect to EggRider display

If the display appears on the **Search Device** page but doesn't connect when tapping or doesn't appear at all please follow the instructions below:



Sometimes the mobile app fails to connect because of corrupted Bluetooth cache of the phone. The following procedure usually solves the problem.

- 1. Go to **App settings** page and set
- 2. Startup connection -> Manually
- 3. Background re-connection -> No
- 4. Close the app from memory.
- 5. Turn off Bluetooth.
- 6. Power off the phone
- 7. Power off display
- 8. Power on display and phone
- 9. Turn on Bluetooth (do not pair)
- 10. Turn on GPS
- 11. Open the app, give permissions and try to connect again

8.2 EggRider display speed shows --.- km/h

EggRider display showing speed as --.-km/h or error FF (EFF) can be caused by the following reasons:

- 1. Protocol is not correctly setup
- 2. Communication port issue
- 3. Controller is not compatible
- 4. Bafang error 30H

8.2.1 Protocol is not correctly setup

EggRider display supports multiple bike communication protocols, each controller brand has two possible options, for example Bafang and Bafang Rx/Tx Swap, but only one of them will work with your bike.

Most of the time the protocol is auto-detected when display is reset to factory settings. To reset, when display is OFF press M + Power buttons until display turns ON.

For more combinations, see EggRider v2 buttons or EggRider c1 buttons

Once identified the protocol that works with your bike please don't change it when taking settings examples from somewhere else.

After reset, if speed is not shown as **0.0 km/h**, please follow the steps below:

- 1. Connect to display with mobile app
- 2. Go to **Display settings** page, press Read, change **Protocol** type to your controller's brand name (example: Bafang) and press Write.
- 3. Restart the display
- 4. Check if speed shows 0.0km/h
- 5. If speed still shows --.-km/h, repeat from step 1 and change protocol to the Rx/Tx swap version. (example: Bafang Rx/Tx Swap)

Do not confuse controller brand with motor brand. For EggRider, it is important to identify the controller.

If none of the above works it is most likely because of the reasons 2) or 3). In this case please **Contact us via email**.

8.2.2 Communication port issue

This is usually the case if EggRider was previously showing the speed correctly. The issue can be either on EggRider display or on the controller side.

How to identify where the issue is?

- By connecting another compatible display to your bike or controller. If speed shows correctly then it is an issue on EggRider display. In this case please **Contact us via email**.
- By connecting EggRider to another bike or controller. If it works correctly then the issue is on controller side.

8.2.3 Controller is not compatible

If the issue is not resolved by following the above steps then it is most likely a software incompatibility, please **Contact us via email**.

8.2.4 Bafang error 30H

Some users have reported encountering error FF known on Bafang as **Error 30H** with specific Bafang controllers, particularly when trying to change controller settings with cable or EggRider app. This error might indicate that the controller has restricted the ability to modify settings.

A common sign of this issue is if the error occurs while adjusting Bafang controller settings.

Potential solution

Many users have resolved this issue by reinstalling the firmware on the controller. While we don't have direct experience with this process, the following resources may be useful:

- How to Reinstall Bafang Firmware YouTube
- Updating Bafang Firmware California E-bike

It appears that some versions of Bafang controller firmware may limit the number of times settings can be changed (e.g., up to 5 times), or in some cases, may not allow changes at all. Additionally, the error can occur when incompatible settings are written to the controller.

Based on customer feedback, using the above resources has successfully resolved the 30H error. However, we are unaware of whether the issue may reoccur in the future.

Preventing error 30H from recurring

Once the 30H error has been resolved, you can help prevent it from recurring by using the EggRider display without modifying the Bafang controller settings. Follow these steps to do so:

- 1. Open the EggRider App.
- 2. Navigate to the **Display settings** page.
- 3. Select Bafang switch mode.
- 4. Choose Only live data.

This setting ensures that the EggRider display shows real-time data without changing any Bafang controller settings, minimizing the chances of encountering error 30H again.

8.3 Settings Errors

8.3.1 No Lishui Settings

If you see on the EggRider display the following error No Lishui Settings please do the followings:

- 1. Connect to the EggRider display
- 2. Go to Lishui settings page
- 3. Configure the Lishui settings to match your bike (RadPower or Mate X Lishui settings examples)
- 4. Press Write
- 5. Restart the EggRider

8.3.2 No ASI Settings

If you see on the EggRider display the following error **No ASI Settings** please do the followings:

Attention

First, please make sure that you have the newest firmware version. You can update your EggRider display by doing the following

- 1. Connect to the EggRider display
- 2. Go to **ASI settings** page
- 3. Configure the settings to match your bike (ASI settings examples)
- 4. Press Write
- 5. Restart the EggRider

8.3.3 Switch failed B

If you see on the EggRider display the following error \mathbf{Switch} failed \mathbf{B} please do the followings:

- 1. Connect to the EggRider display
- 2. Follow carefully the steps from Bafang first configuration

Last update: August 29, 2025

9. Support

We are here to help.

For issue related enquiries (e.g. activation, EggRider stopped working) **contact us via email** . Please include your order number and description of the issue.

For general inquiries or configuration help, feel free to ask in **our EggRider Facebook group**. This way, everyone can see the response and benefit from it.

Additionally, we maintain a public enhancement/bug platform. Before raising new issues, please check out the **EggRider issues page**. If your issue is not listed, you can then **create a new issue** (requires login).

For troubleshooting, please check out our **Frequently Asked Questions** and **Troubleshooting** before contacting us.



Attention

Please avoid contacting us personally and use the dedicated channels mentioned above.

Last update: February 28, 2025

10. Road map

These functionalities are not to consider in specific order

- Login functionality with user profiles
- App notifications
- Improved app dashboard
- Improved display graphics
- Improving background stability
- Predefined settings and settings sharing
- Raising issues from the app
- App multilingual support
- Human power information for systems with torque sensor

Last update: May 26, 2022

11. EggRider Release Notes

Latest stable releases:

Please follow carefully the update instructions: Update instructions

- EggRider Firmware v2.7.45 -> Release notes
- EggRider App Android v2.8.25 -> Release notes
- EggRider App iOS v2.8.25 -> Release notes

Some known issues:

- Accelerating while display is powering on results in wrong battery measurement
- App Startup connection and Background re-connection can create unintended behavior

Last update: August 29, 2025

12. Disclaimer



Attention

Having the same connector/pinout, controller or bike model doesn't guarantee a compatibility.



Disclaimer

The EggRider V2 and C1 displays do not ensure legal compliance. It provides all the flexibility that the motor or controller can offer. The Road/Eco and OffRoad/Sport are merely 2 independently configured profiles. Please check your local laws before riding to make sure you are riding legally and safely.



Warranty

By changing specific settings, you can void the warranty of your motor/bike. You can also experience a significant loss of range due to the high speed and power output. Please use your own judgement.

The app and display interface might vary significantly from the shown screenshots. Please get in touch if you cannot see all the content.

The battery and range estimations need a couple of trips before providing reliable enough data.

The battery capacity estimation relies heavily on the current estimation. According to our experience, the estimated capacity is about 60% of the actual battery capacity. This might be due to a tolerance stack-up in the current measurement, battery voltage vs level non-linearity, etc. We are confident we can improve it over time, and we are open to suggestions.

Last update: August 23, 2024

13. Frequently asked questions

What is the difference between EggRider V2 and C1?

The main difference between the EggRider V2 and EggRider C1 lies in the display. The EggRider C1 features a larger color screen and includes a remote, which enhances data visualization like the arc and graphics on the main screen.

Both displays maintain the same level of compatibility with devices and use the same mobile app.

Am I required to have the phone connected to the display while riding?

No, EggRider display works without the need of the mobile app connection.

Can I connect with more than one phone?

Yes, you can use more phones to connect to EggRider display, you have to activate for every phone.

Why are my EggRider settings not saved?

When you write the EggRider settings from the app to the display, they are saved permanently only when you press the Power on the display.

What is the maximum power EggRider supports?

EggRider can support virtually any power. You have to keep in mind that the maximum power it is given by your motor controller and that it can't be bypassed.

What is the maximum voltage EggRider supports?

EggRider supports direct voltage up to 60V (maximum 52v nominal voltage batteries). We can support systems with higher voltages only with specific controllers and with special connections to 12V output.

Why do I get an alert even if I updated my EggRider: "Your EggRider display version (Unknown/v2.x.x) is lower than the supported version by the app (v2.x.x)?"

You have to connect with the app to the display to make the warning disappear after an update.

What does "R10", "R35"... means on the display?

The Rxx represents the range in km/mi. If there is an error it will be replaced with Exx representing the error code.

Why trip data is not registered when my phone is in the pocket?

You have to make sure the app is allowed to run in the background. Please search for "Lock App in background"

When does a trip stop recording?

At every connection a new trip is started and it ends on disconnection or by pressing "Restart" icon on the Dashboard page.

What happens if I connect my display wrongly?

If your display comes with adapters (Lishui/Mate X/Rad) Please make sure it is connected correctly.

Please do not use male-to-male or female-to-female adapters. Wrong connection can damage the display or the bike and void your warranty. **Contact us via email**

How can I configure different Road and OffRoad mode settings?

If you see Road or OffRoad button gray out please follow the initial Bafang setup

Speed is not accurate. How can I fix this?

In order to get an accurate speed on EggRider display, you will need to configure your wheel size.

Why my headlight is not turning on?

This usually happens when you did not set up your **protocol** correctly. If that is not the case it can be that EggRider doesn't support this functionality on your bike or there is a hardware problem with your system.

Why I can't see speed on my display (--.- km/h or error E FF)?

This usually happens when you did not set up your protocol correctly.

My EggRider turned off when I still had plenty of battery left. How can i fix this?

In order to fix this you will need to configure your **battery settings** .

Why do I get "No Lishui Settings / No ASI Settings" error on my display.

You get this notification if Lishui or ASI settings have not been configured yet. This is a common error that happens when you set up EggRider for the first time. In order to fix this please check our $\mathbf{Troubleshooting}$ \mathbf{Page} .

My connectors are both female?

Please do not use male-to-male adapters. Wrong connection can damage the display or the bike and void your warranty. **Contact us via email**

My connectors are both male?

Please do not use female-to-female adapters. Wrong connection can damage the display or the bike and void your warranty. **Contact us via email**

Last update: September 3, 2024