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CYC Gen 3 Upgrade Feature Summary User Manual

CYC RIDE CONTROL
App User Guide
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Introduction

CYC RIDE CONTROL
Monitor & customize your e-bike riding experience for all CYCMOTOR mid-drive systems. Use it as a secondary dashboard, settings set-up, or both. Unleash all the possibilities of e-bike customization at your fingertips.
The mobile app is not the only way to customize your system. The controller is also programmable via the included display- integrated for your convenience.
This platform is your go-to-station for your CYCMOTOR kit and X-Series controllers.

FEATURES

- Bluetooth connectivity
- Complete with torque sensor configuration
- Compatible with X6 &X12 controllers
- Real-time dashboard for all your motor & riding information
- Fully customizable parameters for pedal assist, throttle & gear preferences

Dashboard

Brake sensor indicator **COMING SOON**

Warning icon to check error codes & clear faults

Bluetooth icon to connect to your device

Instantly change between **STREET** & **RACE** mode

Change between your **DASHBOARD** & **SETTINGS** page

Serial number connected to controller

CONNECTING A DEVICE

STEP #1:
Open the app and tap the Search button at the bottom of the screen. Kindly ensure your phone's Bluetooth is enabled. (Please keep close to the motor while connecting)

STEP #2:
Available devices will then be listed, select your kit and it will begin connecting to the controller. (Please note signal strength)

STEP #3:
Once connected, the CONNECT icon will change stating you are connected & can select again to disconnect.
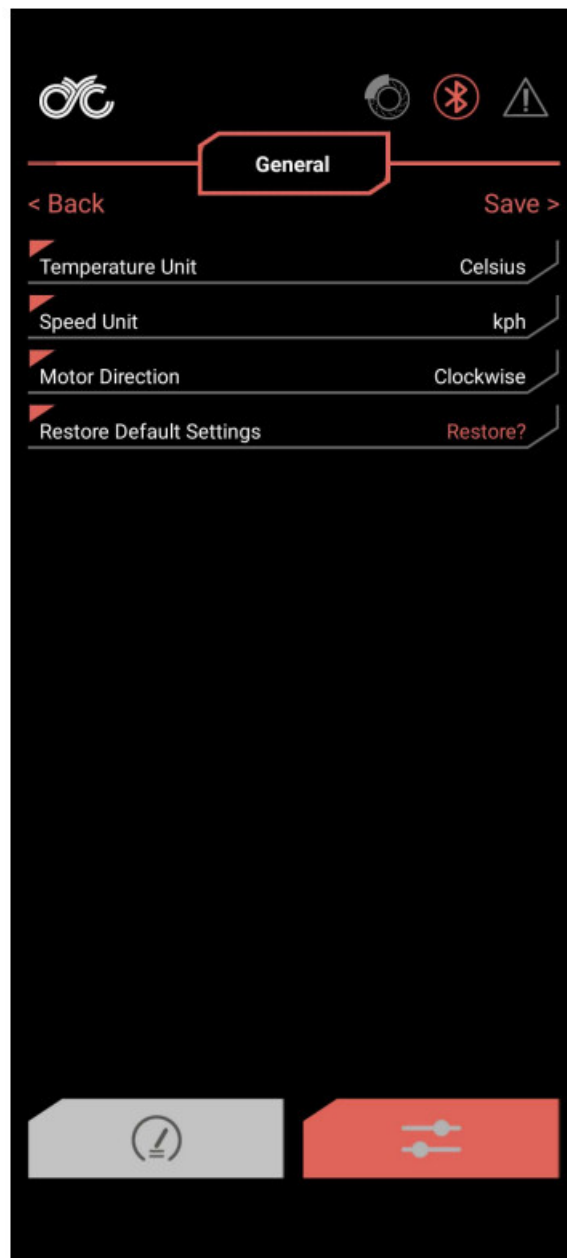
MAIN SETTINGS

The settings page allows you to navigate through different parameter categories. There are six different categories with each providing a set of adjustable parameters or readings from your ebike system.

IMPORTANT

Save all new changes in parameters to flash or risk losing progress. Any changes made that were not saved will be lost after a restart. Note to save after every change in value.

To save to flash, tap the 'Save' button in the upper righthand corner, 'Save successful' message will appear upon completion.

GENERAL

TEMPERATURE UNIT
Set your units to display in degrees Celsius (°C) or Fahrenheit (°F)
SPEED UNIT
Set the speed unit to miles or kilometers.
MOTOR DIRECTION
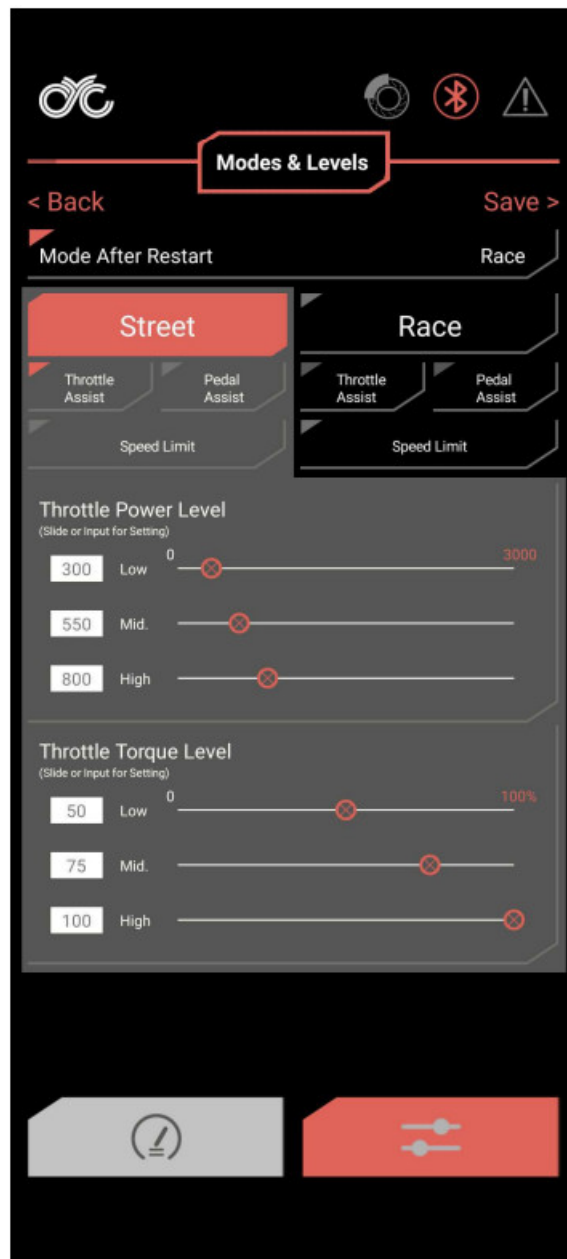This setting is for users who'd want to switch the direction to where the motor is facing.
Note that this is reserved for specific uses only.
WARNING: Do not change this setting if using the motor in its default position. Contact CYC for assistance.
RESTORE DEFAULT SETTINGS
Restore to factory/default settings.

MODES & LEVELS

RACE & STREET MODE

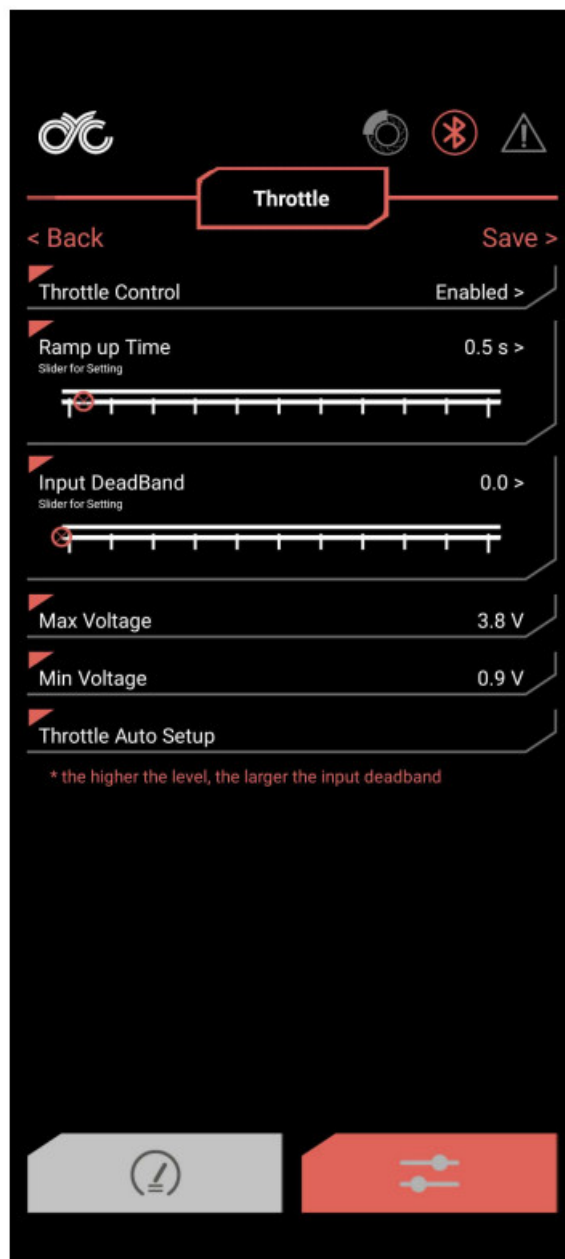You can set the throttle & PAS output independently for both modes.

RACE MODE THROTTLE &PAS

Race Mode is your"boost" or"full power" mode and has parameters set for reaching closer to the system's full capabilities. You can adjust these to your own preference within the capabilities of your controller. The default setting in Race Mode is 3000W & 100 km/hr.

STREET MODE THROTTLE & PAS

Street Mode is intended to be set to your region's legal limits. You can adjust these to your own preference or to your region's legal limits. You can adjust these to your own preference or to your region's legal limits. The default setting in Street Mode is 750W & 25Km/hr.

THROTTLE

RAMPING TIME

This is the time it takes for the motor to achieve the required input. For example, if you open the throttle fully, it will take 250ms (by default) before the motor gives you full power.

It will gradually ramp up to full power within the set time. We recommend not to set this below 1 SOms.

INPUT DEADBAND

This value pertains to opening the throttle when it's completely closed. This is the amount of throttle can be moved from the zero position without generating a response from the motor.

If this value is set lower, your throttle will engage quicker and vice versa.

MAX VOLTAGE

This value should be the same as the Throttle Voltage Reading when the throttle is closed and sets the output when it is not active.
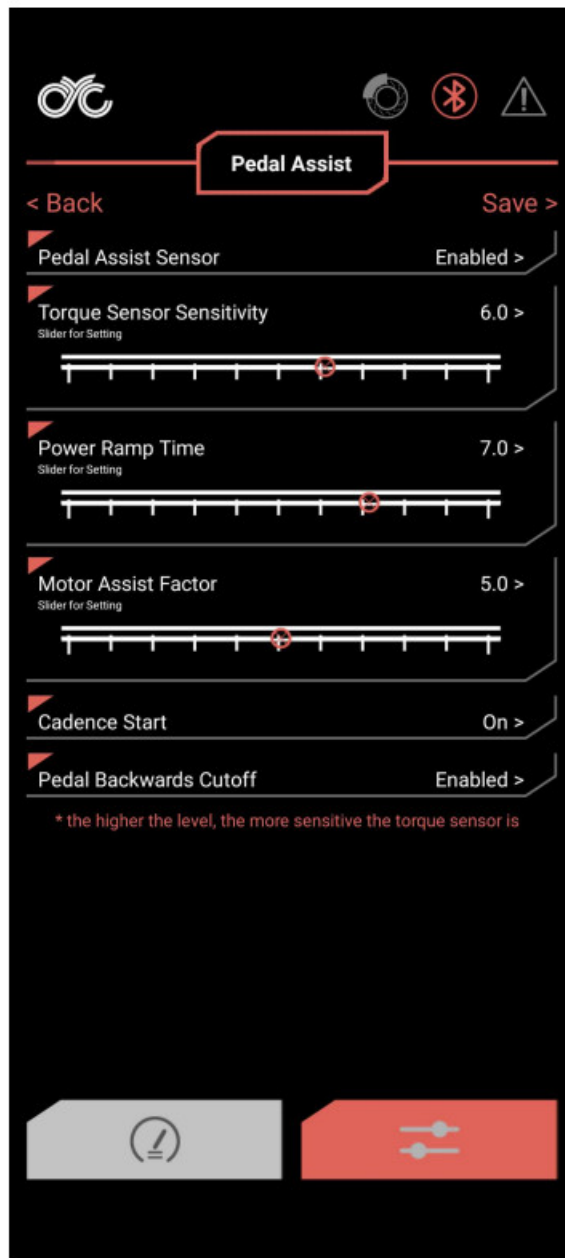
MIN VOLTAGE

This is the output of the throttle when opened fully and is pre-set when purchased. This does not need any change with CYC supplied throttles.

THROTTLE AUTO SETUP

If you'd like to use your own throttle, this will automatically setup the minimum and maximum voltage accordingly. Follow the steps as prompted on the screen.

PEDAL ASSIST

PEDAL ASSIST SENSOR

Enabling pedal assist.

TORQUE SENSOR SENSITIVITY

This value pertains to activating pedal assist when it's completely off. This is the amount of pedal force required to activate the pedal assist. If this value is set higher, your pedal assist will engage with less force and vice versa.

POWER RAMP TIME

The amount of time it takes to reach the desired input. This is the responsiveness of the motor.

MOTOR ASSIST FACTOR

This value pertains to how hard you need to pedal to get full power.
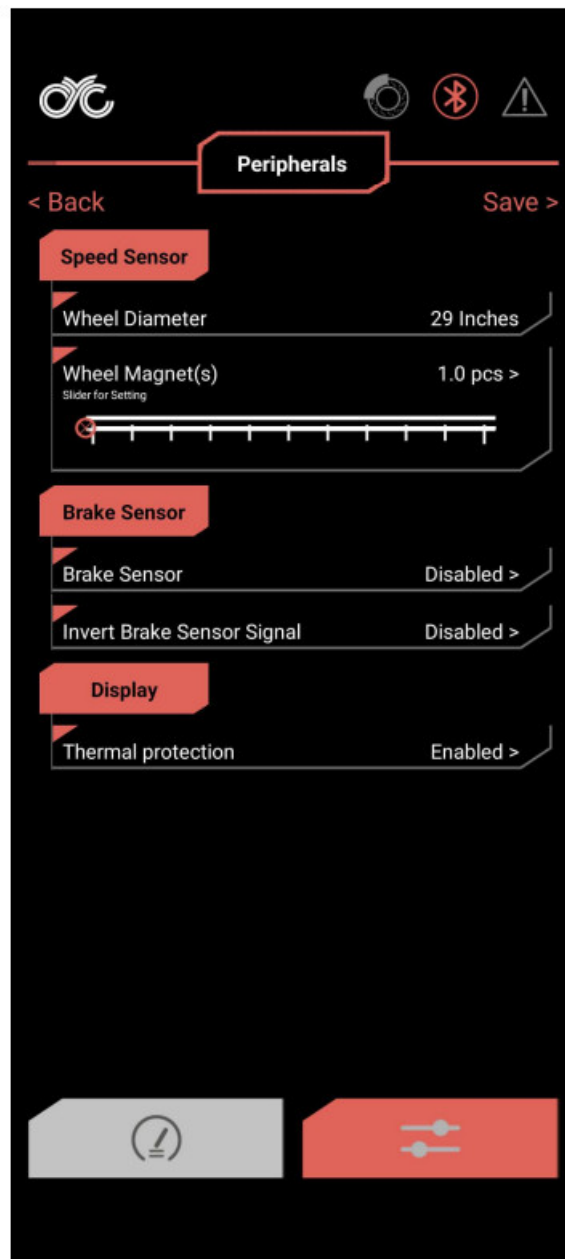
CADENCE START

This feature allows for a cadence-free pull away. i.e., only torque (40N.m.) is required to activate pedal assist.

PEDAL BACKWARDS CUTOFF

This features allows you to cut the motor power when you pedal backwards.

PERIPHERALS SETUP

SPEED SENSOR

Wheel Diameter

The wheel diameter can be measured or calculated. We advise that this number must be calibrated so that vehicle speed within the app matches display speed. This will give more accurate speed liming under different modes.

Remember to set the correct wheel size within the display as well (only applicable to 500c & 750c displays). Kindly refer to your user manual.

Wheel Magnet

This is the number of magnets in the wheel that is communicating with the speed sensor.

For more accurate vehicle speed limiting and measurement, we advise to add more magnets to the wheel.

BRAKE SENSOR

Enable/Disable brake sensors

INVERT BRAKE SENSOR SIGNAL

If you are using brake sensors from a different supplier, you can use this feature to set up your brake sensors as needed.

WARNING

Please contact your authorized dealer or CYC support if you're setting up third-party peripherals.
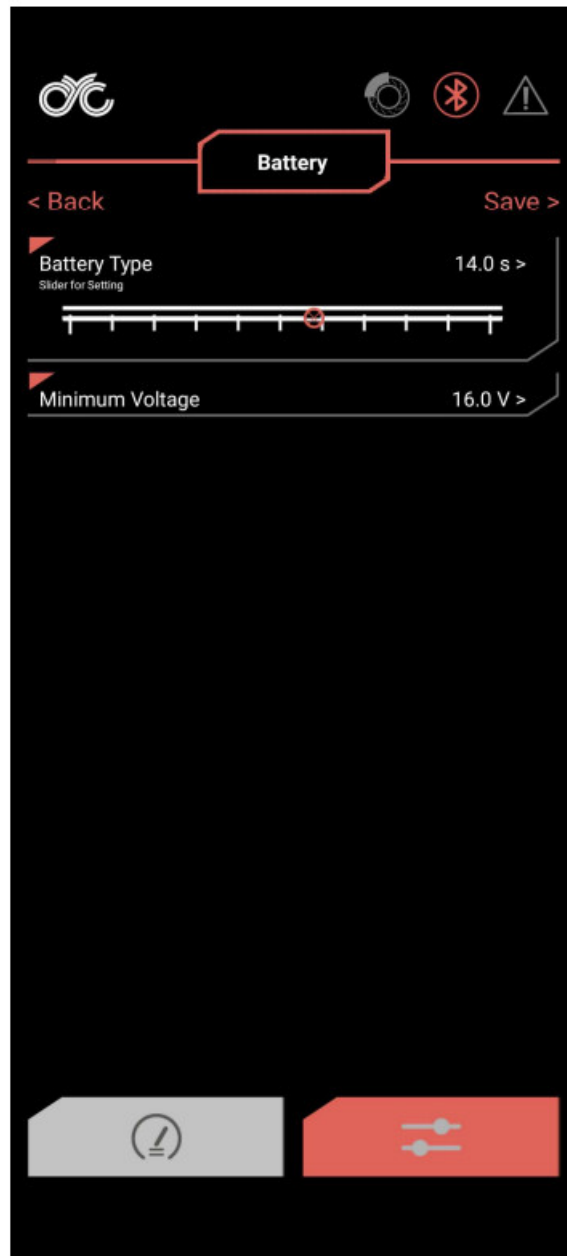
DISPLAY

THERMAL PROTECTION

This is an advanced feature and requires a password from CYC to change. This allows you to disable your motor temperature sensor.

Contact **technical_support@cycmotor.com** for more details and password for this feature.

BATTERY

BATTERY TYPE/ SERIES OF CELLS
1 Os = 36V, 14s = 52V, 20s = 72V
MINIMUM VOLTAGE
The value the controller will fault when connecting too low a voltage to the system.
This setting can be used to protect your battery if too much voltage sag is detected.

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Documents / Resources

	CYC Gen 3 Upgrade Feature Summary [pdf] User Manual Gen 3 Upgrade Feature Summary, Gen 3, Upgrade Feature Summary, Feature Summary

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