

**CYC**

CYC Motor  
DS103  
DISPLAY  
Controller  
Upgrade Kit



# CYC Motor DS103 DISPLAY Controller Upgrade Kit User Guide

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**CYC**

**CYC Motor DS103 DISPLAY Controller Upgrade Kit**



### Specifications:

- Brand: CYC MOTOR LTD
- Model: DS103
- Display: Intelligent LCD
- Website: [www.cycmotor.com](http://www.cycmotor.com)

### Product Usage Instructions

#### 1. Powering On/Off:

To power on the device, press and hold the power button for 3 seconds. To power off, repeat the same process.

#### 2. Navigating the LCD Display:

Use the navigation buttons to scroll through different display screens and access various settings and information.

#### 3. Firmware Updates:

Visit the CYC MOTOR LTD website to download any firmware updates available for your model. Follow the instructions provided to update the firmware.

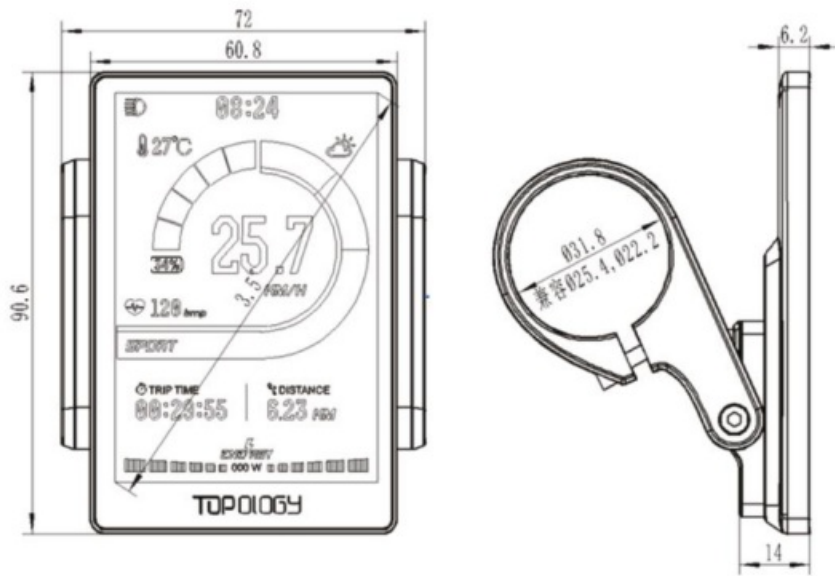
### Product Details

- Intelligent LCD display, model: DS103
- Firmware: CYC MOTOR LTD specific firmware

### Features

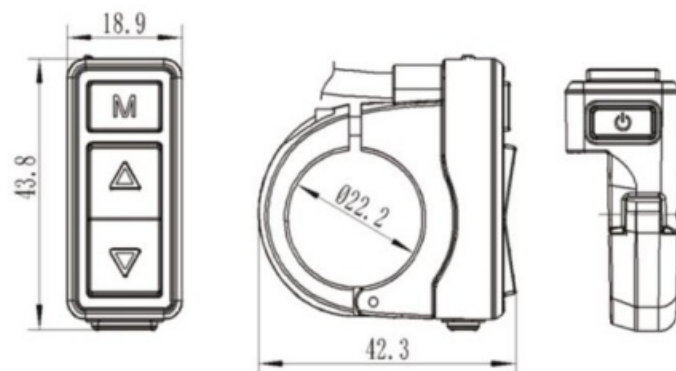
- Simple and lightweight, separate installation bracket design
- High brightness, high contrast 3.5 coloured TFT screen
- Clock function (clock is on when the display shutdown)
- Excellent outdoor design with IP65 level waterproof
- Micro USB serial communication port, convenient maintenance services

### Dimensions & Materials



## Materials

- Product shell – ABS + PC plastic
- Transparent window – Tempered glass



## Dimensions

L 72mm x W 14mm x H 90.6mm

## Electrical Specifications

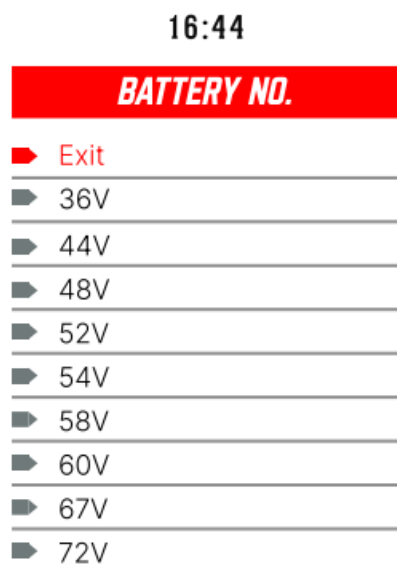
- Power supply: DC 36V/ 48V/ 52V/ 72V
- Rated current: 30ma/36V
- Shutdown leakage current: <1uA
- Screen specification: 3.5" coloured TFT (480\*320 pixels)
- Communication method: UART (default)
- Operating temperature: -20°C ~ 60°C
- Storage temperature: -30°C~80°C
- Waterproof level: IP65

## Quick Start Guide

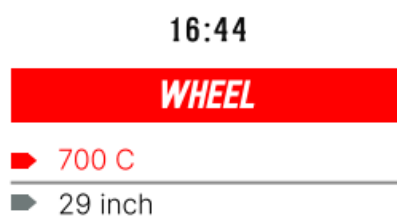
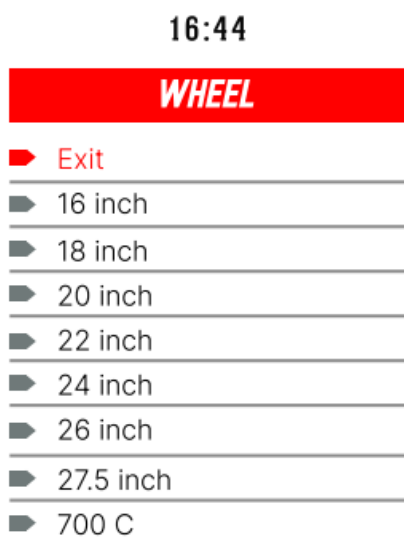
After unboxing and installing your CYC motor system, there are two main things you need to set up.

1. Change your Battery No. settings according to your rated voltage.

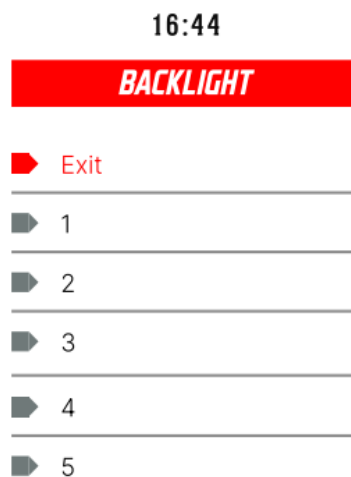
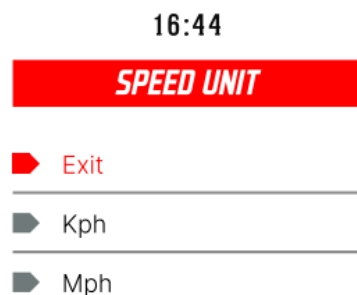
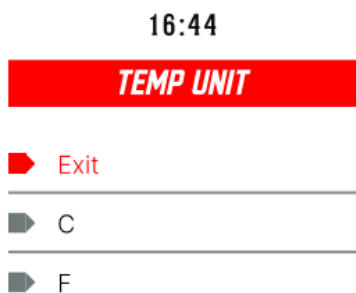
Upon startup, long press the MENU button within 15 seconds to access the SETTINGS page. Press UP/DOWN to navigate the settings page & MENU to select.



2. Change your Wheel settings according to your bike's wheel size.



3. You can now set up parameters like temperature and the speed unit as well as the backlight!



## Functionalities

Press and hold the POWER button for 3 seconds to turn the display on/ off.

## Navigation

The MENU button is used to go into your main settings page & your clear data page. It is also used to enter and select a setting or function.



## Settings

Upon startup, long press the MENU button within 15 seconds to enter the SETTINGS page. Note that once the system is activated for longer than 15 seconds, the motor system will require a restart to enter the settings menu.

16:44		
SETTINGS		
Exit		
Trip Mode		Race
Battery No.		72V
Wheel		27.5 inch
Start-up Theme		Light
Backlight		5
Temp Unit		C
Speed Unit		Kph
... ..		

16:44		
SETTINGS		
Exit		
... ..		
Speed Unit		Kph
Auto Off		5 min
Assist Levels Select		>
Clock		>
Startup Password		>
System Info		>
Reset		>

## Clean Trip Data

Wait 15 seconds after starting up the motor system to enter the "Clean Data" menu. Long press the MODE button

to clear previous trip data. Please note that trip data does not automatically clear once the motor system is restarted. It is a manual process.

16:44

CLEAN DATA

Clear the following data?

DISTANCE: 0.0 KM

TRIP TIME: 00: 00

AVG SPEED: 0.0 KM/H

MAX SPEED: 0.0 KM/H

➡ YES

➡ NO

**Trip Mode**

Upon startup, long press the MENU button within 15 seconds to access the SETTINGS page, then select TRIP MODE to swap between STREET and RACE mode.

16:44

TRIP MODE

➡ Exit

➡ Street

➡ Race

➡

16:44

M 105°F

B 82°F

STREET

00.0

KM H

LV1

VOLTAGE

40.5 v

EFFICIENCY

0 WH/KM

MOTOR POWER

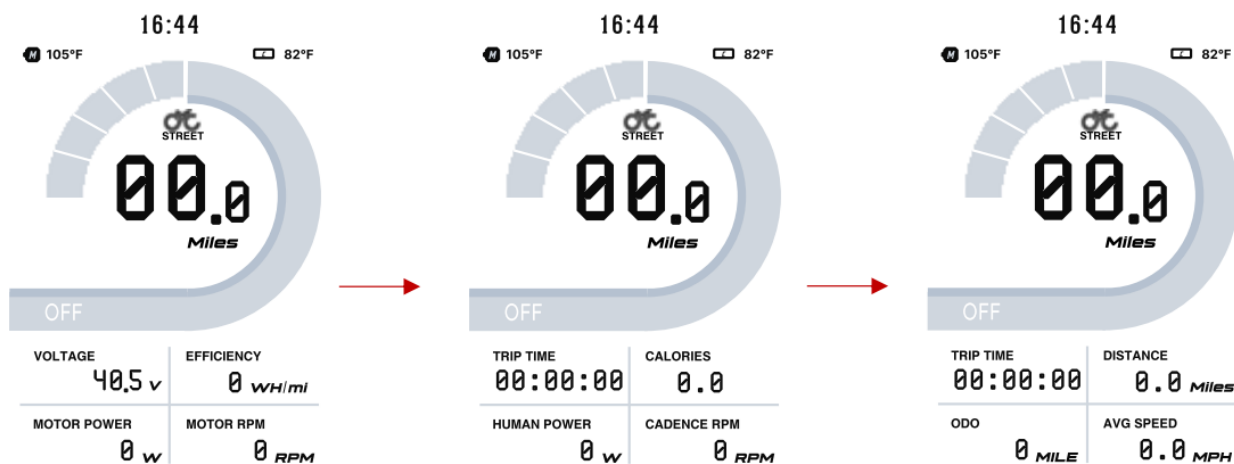
0 W

MOTOR RPM

0 RPM

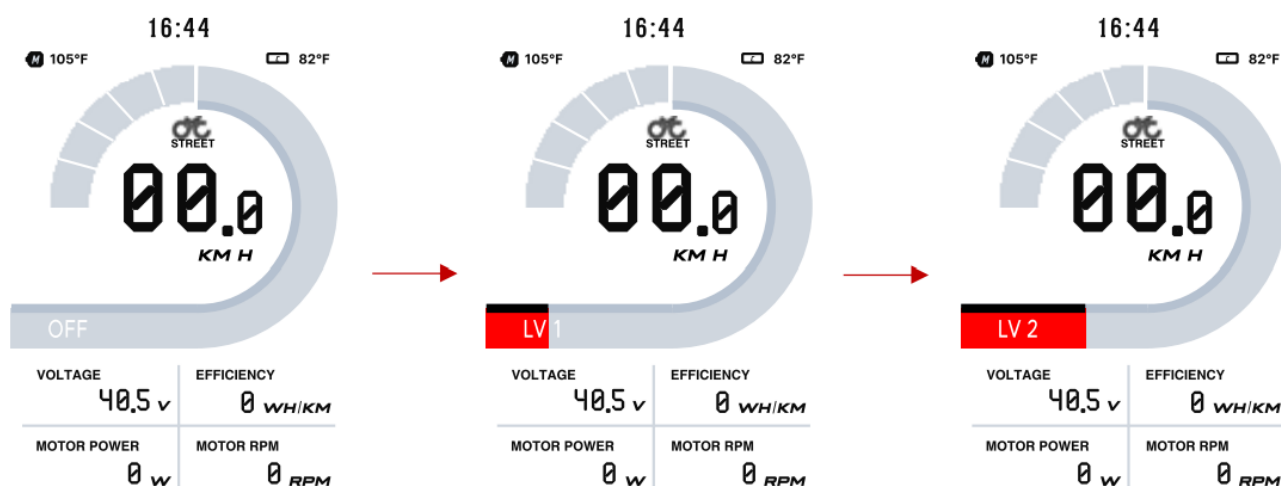
**Switch Dashboard**

Switch the main dashboard to display different information by pressing the MENU button.

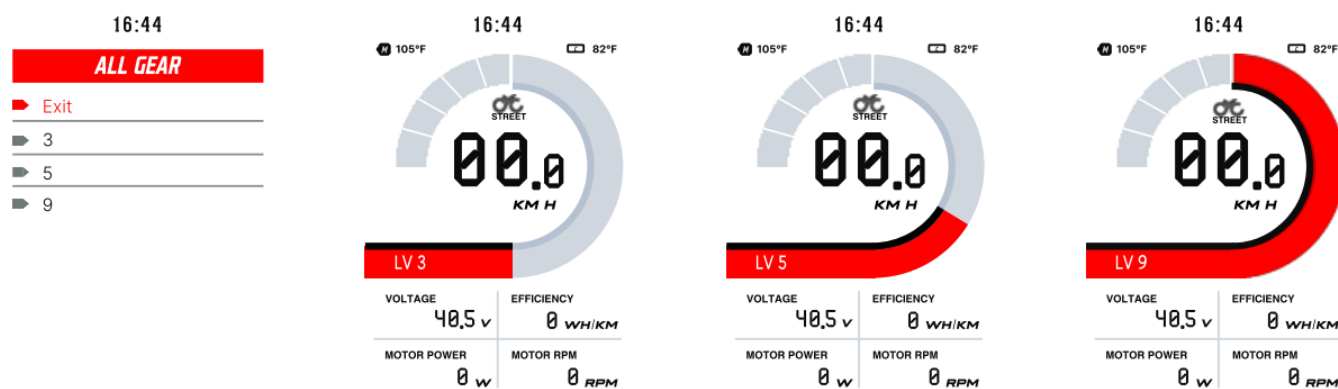


## Assist Levels Select

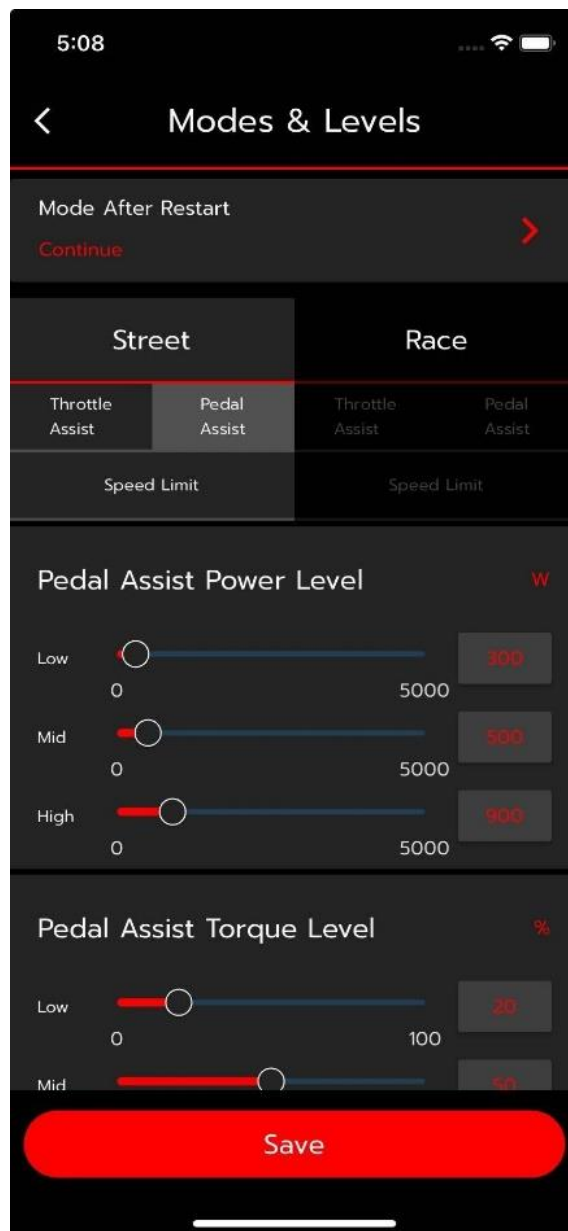
Press the UP/DOWN button to change between assist levels while riding. Note that “OFF” means no motor assistance will be given.



There are 3 sets of assist levels; 3, 5 & 9. To change the assist levels set, long press the MENU button upon within 15 seconds upon startup and access ALL GEAR in the main settings page.



The power output will be distributed evenly across the chosen number of assist levels (or gears) according to the Assist Level Configuration and Speed Limit Assist settings on your Modes & Levels Page on the CYC Ride Control App.

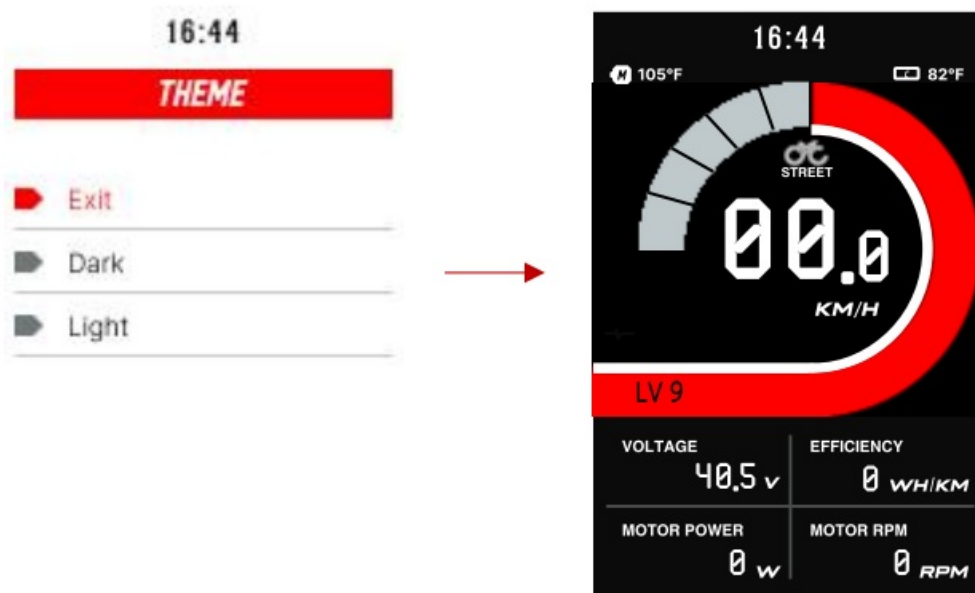


APP ASSIST LEVEL	3 ASSIST LEVELS	5 ASSIST LEVELS	9 ASSIST LEVELS
	0 (Neutral)	0 (Neutral)	0 (Neutral)
1 – 0.3 (30% BYDEFAULT )	1	1	1
			2
		2	3
			4
2 – 0.6 (60% BY DEFAULT )	2	3	5
			6
		4	7
			8
3 – 1 (100% BY DEFAULT )	3	5	9



## Dark & Light Theme

Upon startup, long press the MENU button within 15 seconds to access the SETTINGS page, then select THEME to change between light and dark themed dashboards.



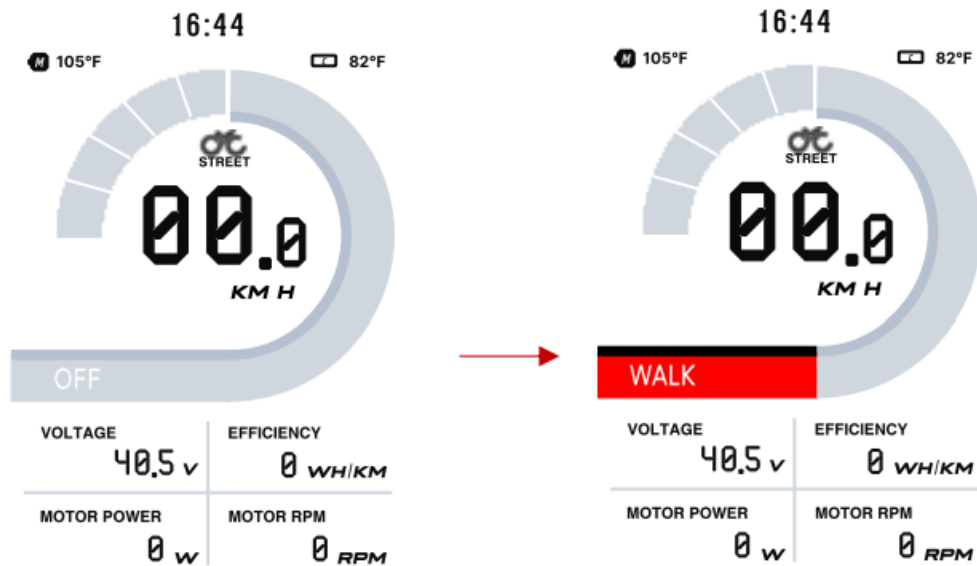
## Wheel Size

The following table lists the wheel circumference measurements in millimetres (mm). Learn how to measure your bike tire & wheel circumference with this guide.

Wheel Size (In)	Rim (ISO)	Circumference (mm)
27 x 13/8	35 – 630	2169
27 x 11/4	32 – 630	2161
27 x 11/8	28 – 630	2155
27 x 1	25 – 630	2145
26 x 1.25	32 – 559	1953
26 x 1.5	38 – 559	1953
26 x 1.9	47 – 559	2055
26 x 2.125	54 – 559	2070
29 x 2.1	54 – 622	2288
29 x 2.2	56 – 622	2298
29 x 2.3	60 – 622	2326

## Walk Assist

Hold in the DOWN button to activate walk assist. Please note it takes 3 seconds to activate & will deactivate immediately when the button is released.



## Error Codes

In certain circumstances, an error code may appear on your display. Contact us for assistance.

Error Code on App & DS103 Display
Controller Over Voltage
Controller Under Voltage
Controller Over Temperature
Hall Sensor Error
Throttle Error
Speed Sensor Error
Controller Internal Error 1
Controller Internal Error 2
Controller Internal Error 3
Controller Internal Error 4
Controller Internal Error 5
Controller Internal Error 6
Controller Internal Error 7
Controller Internal Error 8
Controller Internal Error 9
Controller Internal Error 10

## Installation

1. Determine if you need to select the corresponding mounting clamp and rubber clip ring according to the diameter of your handlebar (Applicable handlebar specifications:  $\Phi 22.2$ ;  $\Phi 25.4$ ;  $\Phi 31.8$ ).
2. Open the display lock clamp and insert the rubber clip (if applicable) into the correct position of the lock clamp.
3. Set the rubber ring in the bracket (if applicable) then assemble on the middle of the handlebar. You can adjust the angle of the display to make the display screen more visible when riding. After fixing the angle, tighten the screws. The tightening torque is 1N.m.
4. Open lock ring of the switch and set in the appropriate position on the left side of the handlebar. Adjust the angle and position of the switch as needed in order to ensure the switch can be operated easily.
5. Fix and tighten the handlebar fixing screw with the M3 Hex wrench (locking torque is 0.8N.m.)

**Note:** Damage caused by excessive torque is not covered by warranty.

## Compatibility

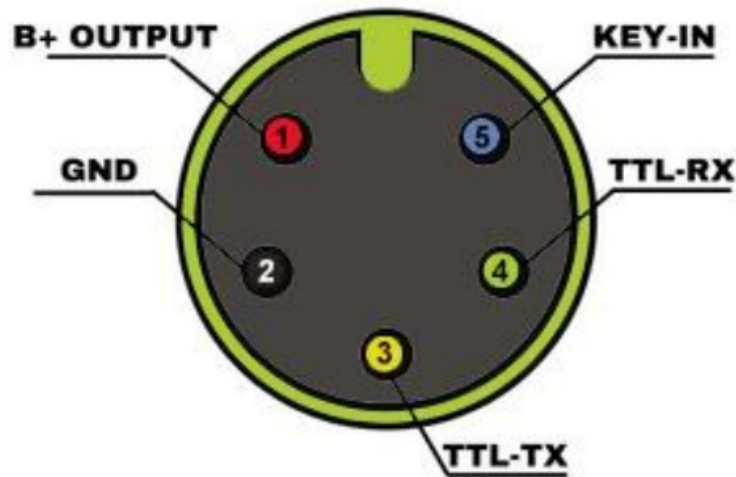
The clamps are suitable for 3x different handlebar sizes: 31.8mm, 25.4mm & 22.2mm.



## Pin Layout

### Male 5-Pin Connector

1. Red Wire: Anode (36V to 72V)
2. Black Wire: GND
3. Yellow Wire: TxD (display -> controller)
4. Green Wire: RxD (controller -> display)
5. Blue wire: Power cord to the controller



## Certification

- CE / IP65 (waterproof) / ROHS
- Be sure to contact us if further assistance is needed. Thank you!

## Frequently Asked Questions (FAQ):

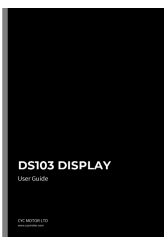
### • Q: How do I reset the device to factory settings?

A: To reset the device, navigate to the settings menu on the LCD display, find the 'Reset to Factory Settings' option, and confirm the reset.



### • Q: Can I customize the display settings?

A: Yes, you can customize certain display settings such as brightness and units of measurement. Refer to the user manual for detailed instructions on how to do this.

## Documents / Resources

	<p><a href="#">CYC Motor DS103 DISPLAY Controller Upgrade Kit</a> [pdf] User Guide  DS103 DISPLAY Controller Upgrade Kit, DS103 DISPLAY, Controller Upgrade Kit, Upgrade Kit</p>
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## References

-  [Mid Drive eBike Conversion Kits | CYCMOTOR](#)
-  [How to Measure Bike Tire & Wheel Circumference | Quick Steps](#)
- [User Manual](#)

## **Manuals+. Privacy Policy**

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