

# Product Specification

08/2019

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**Product** TFT Display

**Mode** TFT [750C-RisunMotor](#)

**Abbreviation** [750C](#)

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**Client**

**Customer**

**audit**

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**Supplier** Risun Intelligent Technology Co., Ltd.

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**Email** [sales@RisunMotor.com](mailto:sales@RisunMotor.com)

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## 1. Product Name

- ✧ TFT display
- ✧ Model : TFT 750C

## 2. Suppliers

- ✧ Risun Intelligent Technology Co., Ltd.
- ✧ Email : [sales@risunmotor.com](mailto:sales@risunmotor.com)

## 3. Electrical Parameters

- ✧ 3.2inch IPS screen
- ✧ 36V/48V/52V/60V/72V battery supply
- ✧ Rated operating current : 40mA
- ✧ Off leakage current < 1uA
- ✧ Max output current to controller : 100mA
- ✧ Operating temperature : -20~70°C , Storage temperature : -30~80°C

## 4. Dimensions & Material

- ✧ Product shell is ABS, transparent window is made with high strength Acrylic.
- ✧ Dimensions : host/L110mm\*W68.2mm\*H68mm

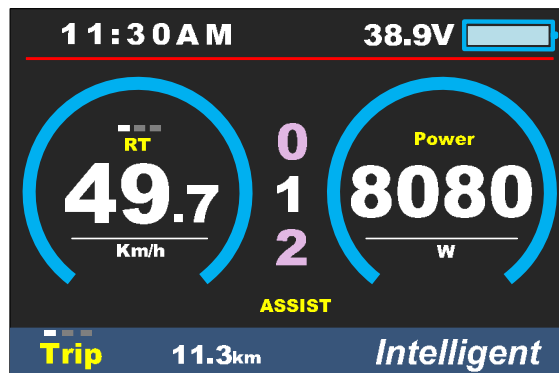


## 5. Features

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- ◇ Suitable for low temperature, Max -20°C.
- ◇ High-contrast 3.2inch IPS colorful matrix screen.
- ◇ Ergonomic external button design, easy to operate.
- ◇ **Speed display:** AVG SPEED, MAX SPEED, SPEED (Real-time).
- ◇ **Kilometer / Mile:** Can be set according to customers' habits.
- ◇ **Smart battery indicator:** Provide a reliable battery indicator.
- ◇ **5-level Assist**
- ◇ **Mileage indicator:** Odometer/ Trip distance/ Clock/ Riding time.
- ◇ **Power indicator:** real time power indicator, digital or analog.
- ◇ **Error code indicator.**
- ◇ **Software upgraded:** Software can be upgraded through UART.

## 6. TFT screen instructions



## 7. Functional Description



### 7.1 Power On/Off

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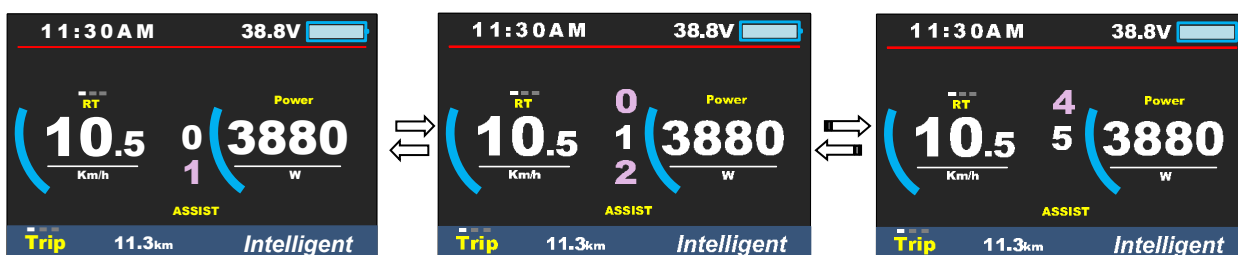
# Risun Intelligent Technology Co., Ltd.

Press and hold **Power** button for 1 second can turn on/off the display. The Display can automatically shut down when there is no operate & ride for X minutes (X could be 0~9) .

\*If the display has been set password power on, you need to input the right password before start.

## 7.2 Assist level operating

Short press **UP/DOWN** button can change the assist level. Top assist level is 5, 0 for neutral.



## 7.3 Speed mode switch

Short press **MENU** button can change the speed mode, **Speed**->**AVG Speed**->**MAX Speed**.

\*If there is no operation for 5 seconds, display will return Speed (Real-Time) display automatically.

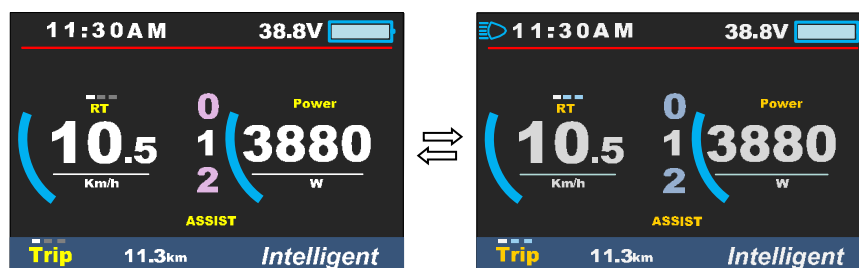
## 7.4 Mileage mode switch

Short press **POWER** button can change the mileage mode, Trip->ODO-> Time.

## 7.5 Headlight/backlight On/Off

Press and hold **UP** button for 1 second can turn on/off the headlight, and the scree will switch to the corresponding mode.

\*The motor does not work when the battery voltage is low, Display still can keep the headlight on for a while when E-bike is in riding.

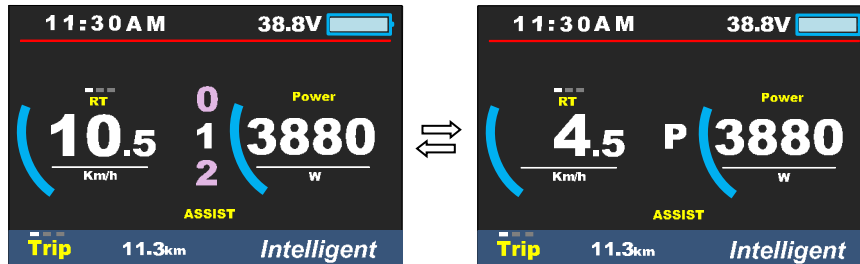


Daytime mode

night mode

## 7.6 Walking mode (6km)

Press and hold **DOWN** button for 2 second can get into walking mode, out of the mode when release the button.



\* This feature needs to be supported by controller.

## 7.7 Data cleanup

Press and hold **UP** & **DOWN** buttons together for 1 second can reset several temporary data, temporary data include **AVG Speed / MAX Speed / Trip / Time**.

\* These temporary data can't be erased by power off.

## 8. Parameter setting

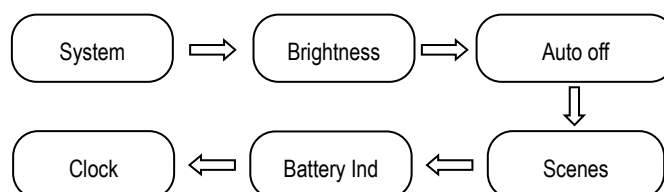
Double press **MENU** button (press interval less than 0.3 second) can get into setting menus, press **POWER** button to change **Display Setting / Basic setting**, press **UP/DOWN** buttons to change the parameter setting, press **MENU** button can switch to next item. Double press **MENU** button will exit from menu.

\* Display will automatically quit menu when there is no operation for 30 seconds.

\* For safety reasons, display can't get into MENU when riding.

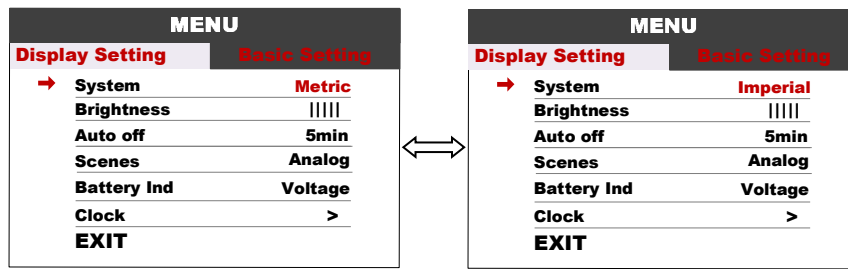
\* Display will quit MENU when start riding.

The order of parameters are as follow.

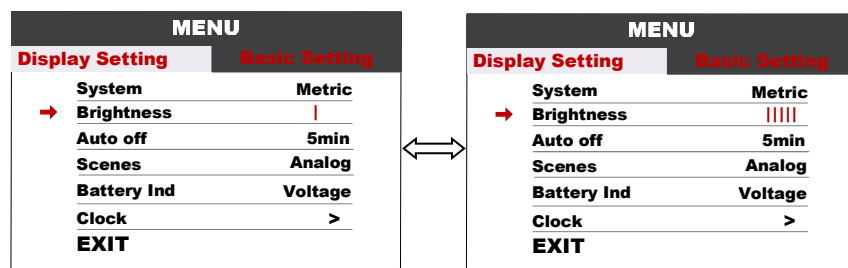


**8.1 System:** Press Up / Down button to switch between Metric / Imperial.

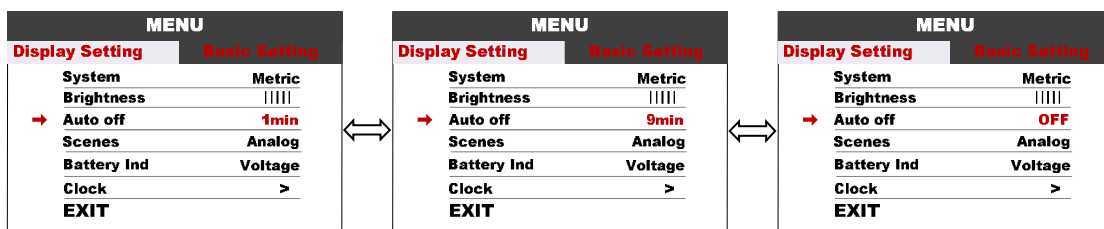
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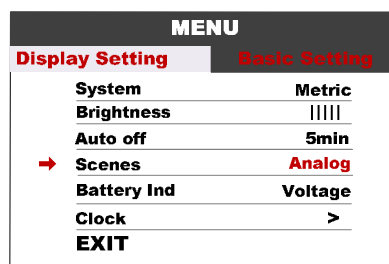
**8.2 Brightness** : Press Up / Down button to change the brightness of the backlight, I is darkness, IIIII is brightness. The daytime mode defaults to IIIII, and the night mode defaults to II.



**8.3 Auto off** : Press UP/DOWN button to change the auto power off time, from 1 to 9 or OFF, the number represent time (minutes) to shutdown, default value is 5 minutes.

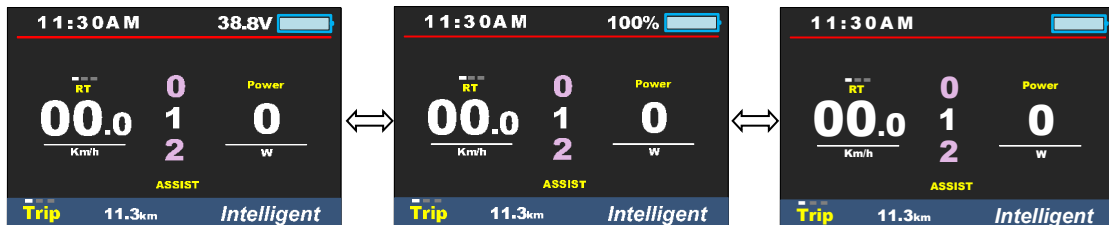
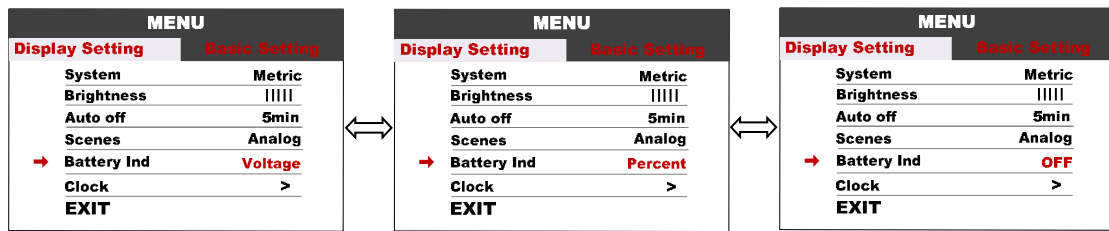


**8.4 Scenes**: Only support Analog scenes.



**8.5 Battery Ind**: Press UP/DOWN button to change the battery indicator, Voltage / Percentage / OFF.

\*Accurate percentage needs communication with battery.

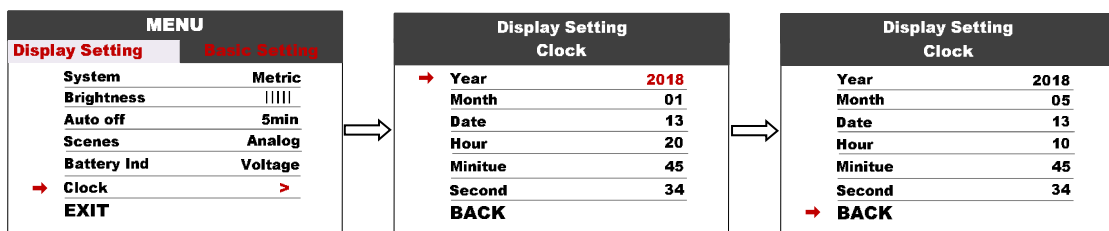


Voltage

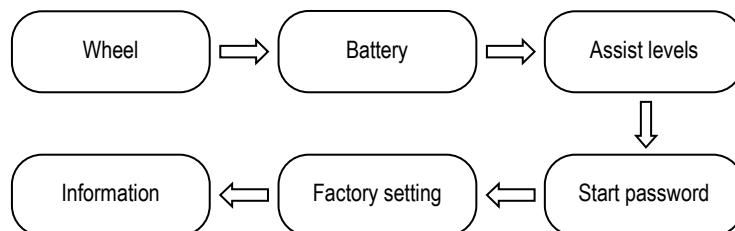
Percentage

OFF

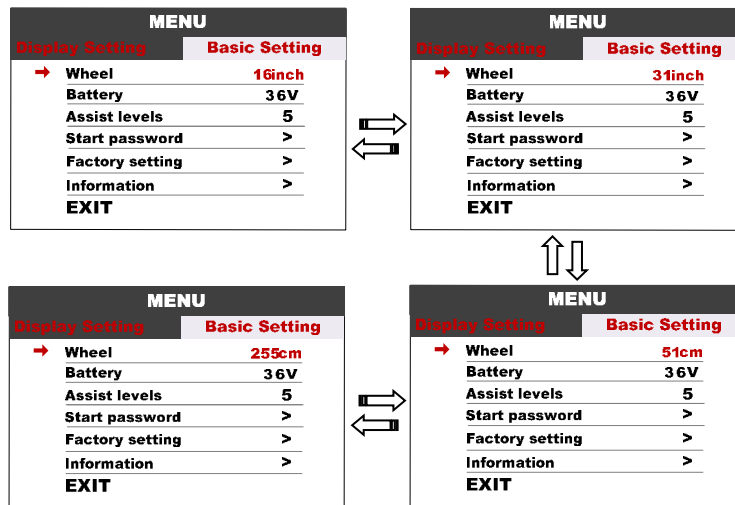
**8.6 Clock:** Clock setting, press **MENU** button get into the clock setting menu, press UP/DOWN button to set Year/Month/Day/Hour/Min/Sec.



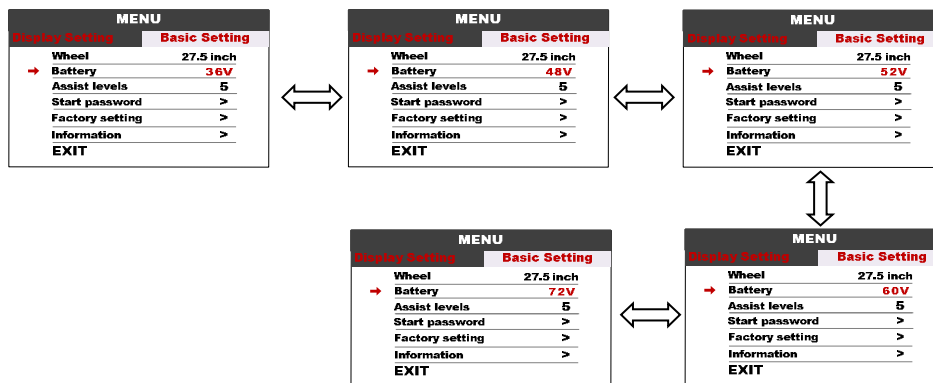
### Basic Setting



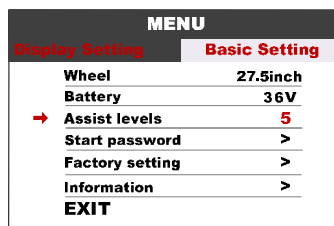
**8.7 Wheel:** Press UP/DOWN can change the wheel setting, optional wheel diameter is 16/18/20/22/24/26/27/27.5/28/29/30/31 inch, 51cm~255cm represent wheel circumference (this needs controller support).



**8.8 Battery:** Press UP/DOWN will change battery voltage setting, optional value is 36V/48V/52V/60V/72V.

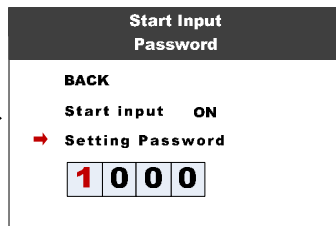
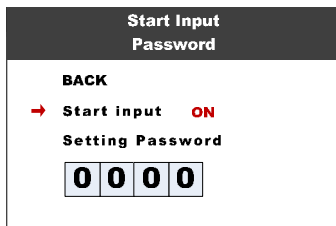
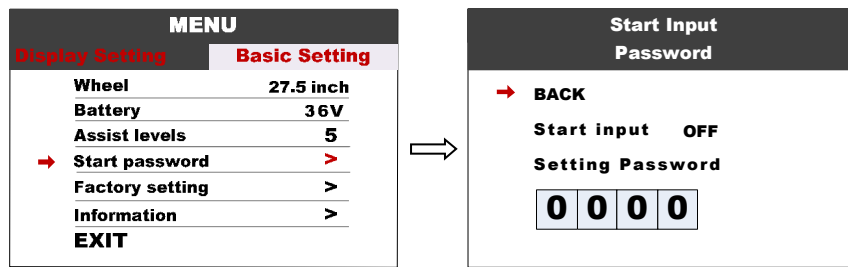


**8.9 Assist levels:** Only support 5-level.

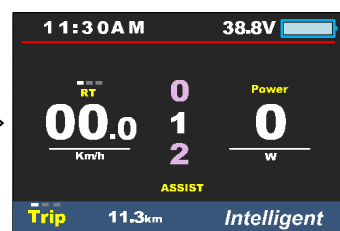
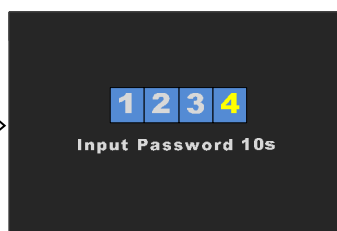
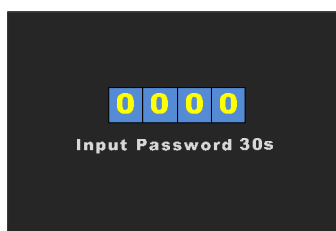


**8.10 Start password:** Press **MENU** button get into the password setting menu. If you had set Start input **ON**, you must input right password before power on, password is accorded to your setting.





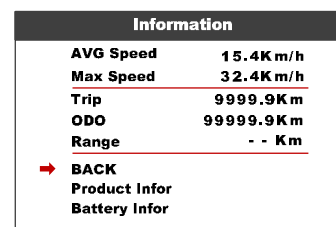
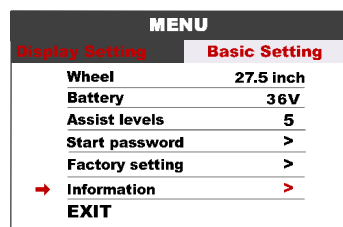
You need to input the right password before start with 30 seconds, display will power off automatically if the password was wrong three times.



**8.11 Factory setting:** Press **MENU** button enter Restore Factory Settings item, set YES will restore all parameter to factory settings.



**8.12 Information:** Show information of the E-bike.



**8.13 Product info:** Get into this item can show hardware version software version...

Information	
AVG Speed	15.4 K m/h
Max Speed	32.4 K m/h
Trip	9999.9K m
ODO	99999.9K m
Range	- - Km
BACK	
→ Product Infor	
Battery Infor	

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Product Information	
<b>Version</b>	
Hardware Ver.	H3.0
Software Ver.	1.0B-H1
<b>Product Information</b>	
Date	
Serial No	
→ EXIT	

**8.14 Battery info** : Get into this item can show all information of battery, including Voltage, Capacity, Cycle times, Health, Temperature of battery, Remaining Capacity, Full Charge Capacity.


\*These information needs to be supported by battery communication.

Information	
AVG Speed	15.4 K m/h
Max Speed	32.4 K m/h
Trip	9999.9K m
ODO	99999.9K m
Range	- - Km
BACK	
→ Product Infor	
Battery Infor	

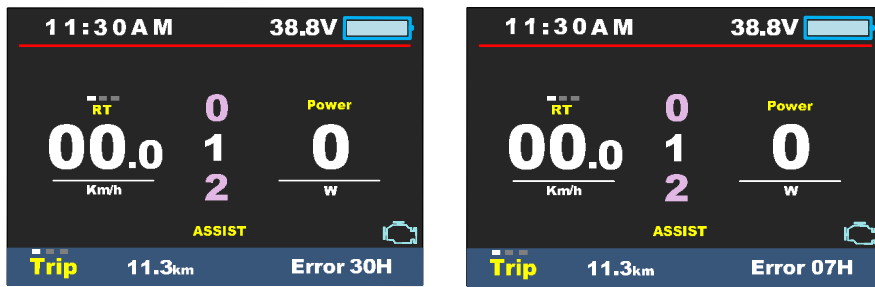
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Battery Information	
Voltage	38.9V
Capacity	90%
Cycle Times	278
Health	100%
Temperature	35.5℃
Remaining Capacity	8192 mAh
Full Charge Capacity	8192 mAh
→ EXIT	

## 9. Error Code define

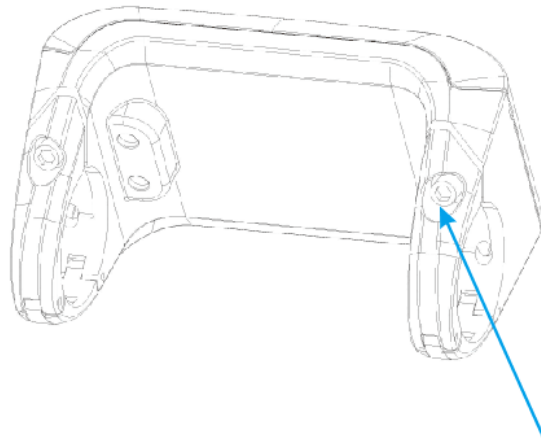
750C can show warning message,  icon shows on the screen, and show error code at the bottom of the screen, error code from 01~30, definition see the table below.

Error Code	Error description	Handle
01H	Communication checksum error	Check the cable connection
02H	Controller protection	Check three-phase power line.
03H	three-phase power error	Check three-phase power line connection
04H	Battery low	Charge the battery
05H	Brake error	Check the brake connection.
06H	Turn error	Check turn to connect.
07H	Hall error	Check the hall connection
08-FFH	Reserved	Please contact the manufacturer for error definitions
30H	Communication Error	Check the cable connection

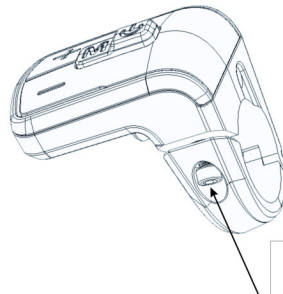


## 10. Assembly instructions

Please pay attention to the screw's torque value, damaged caused by excessive torque is not within the scope of the warranty.



M4\*10  
STD=0.1N.M  
MAX=0.2NM

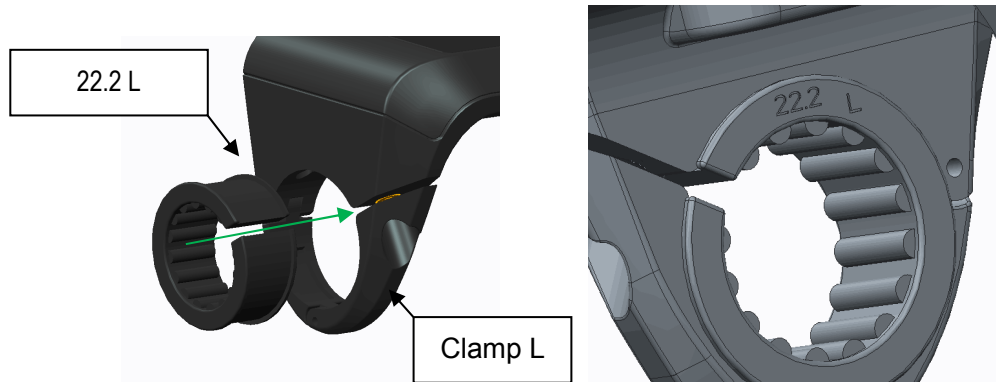


M3\*8  
STD=0.25N.M  
MAX=0.4N.M

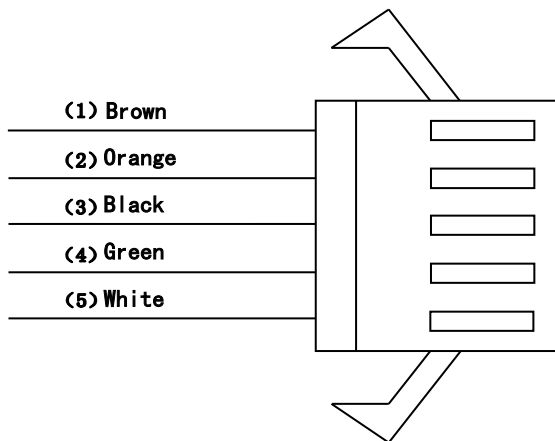
Clamps suit for 3 size of handlebar, 31.8mm, 25.4mm, 22.2mm, there are transfer rings for 25.4mm and 22.2mm (marked with L or R), transfer ring must be assembled with the special

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directions, pay attention to the green arrow below.



## 11. Connector descriptions



- 1、 Brown wire : Anode(36V/48V/60V/72V)
- 2、 Orange wire : Power cord to the controller
- 3、 Black wire : GND
- 4、 Green wire : RxD (controller -> display)
- 5、 White wire : TxD (display -> controller)

## 12. Certification

CE / IP65 (water proof) / ROHS.

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