



**TEVERUN**

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**TEVERUN SCOOTER**

**U S E R / M A N U A L**



# CONTENTS

|  |     |
|--|-----|
| Safety guidelines and restrictions ..... | P2  |
| Product structure .....                  | P4  |
| Name of parts .....                      | P5  |
| What in box .....                        | P6  |
| How to use product .....                 | P7  |
| How to fold .....                        | P8  |
| How to use the instrument panel .....    | P9  |
| How to use build in TFT .....            | P12 |
| How to use charger correctly .....       | P18 |
| Safety guidelines before driving .....   | P20 |
| Check and maintenance .....              | P21 |

## Before Reading the Manual

This manual contains important information to help you to use your product more safely. For your safety, there are warnings of 'Danger', 'Warning', and 'Caution' depending on the degree of danger and the meanings are below.

**⚠ DANGER** Indicates a hazardous situation that will result in serious injury.

**⚠ WARNING** Indicates a hazardous situation that could result in serious injury.

**⚠ CAUTION** Indicates a hazardous situation that could result in minor or moderate injury.

## Before Reading Manual **⚠ CAUTION**

✓ Please read this manual carefully Before using this product

### 1 General safety guidelines and restrictions

Even if the it is within the warranty period,you maybe liable for any accident caused by any of the following causes.

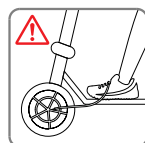


#### 1.Be careful of water!

This product and components are not waterproof. Don't let the water get into the product and components.

\*Never use it, if the road is wet due to the rain, snow, hailstone.

\*If you wash or spread water to electric devices, it can result in malfunction or fire.



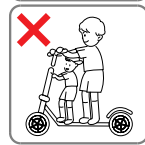
#### 2.Beware of folding and spinning parts!

If parts of the body, as a finger or hair, get caught in the spinning or folding parts of the product, this may lead to severe injuries. Please be careful.



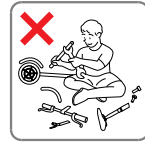
#### 3.No acrobatics

Stunts and jumps such as jumping and dropping are prohibited as they can cause a great impact on the product and can cause of malfunction and accidents.



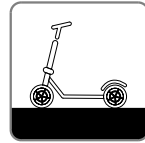
#### 4.No companion boarding

This product is intended for one adult only, so children,infants, or two people are prohibited from boarding.



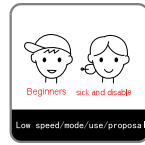
#### 5.Don't tune by yourself

Do not open or tune the electric parts (battery, controller or motor system).



#### 6. No companion boarding

Unlicensed, driving after drinking, loading cargo on the scooter is prohibited. (More than bike or bicycle license is required) Please comply with the Road Traffic.Act and related laws and regulations according to the place of use.



#### 7. Beginners and seniors are encouraged to use at low speed

Beginners who are not accustomed to use the product, seniors and others should avoid high speed mode driving and recommend low speed driving. In addition, please use after practice how to ride safely in a wide place.



#### 8.Do not sudden brake with front brake

If there is a risk of overturning, sudden deceleration should be done safely. Do not apply any unusual behaviors or artificial forces, such as stopping with your feet.



### 9. Do not drive on steep slopes

Acceptable gradeability is different for each product. Excessive hill roads exceeding the specification may cause damage to the product (parts) due to temperature cut, overcurrent, or low voltage cut, which may cause the product to malfunction.



### 10. Safety warning when lifting the product

Please always lift the product with at least one other person. When lifting the product, please be careful not to damage your back or knees.

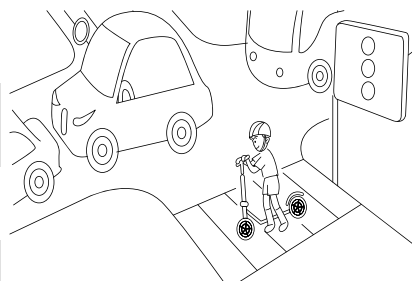


### 11. Safety warning when lifting the product

For the safety of passengers, be sure to wear a full face helmet and the other protective gear (for knees, elbows, hands, upper body) and do not wear shoes such as slippers or high heels that can interfere with driving.

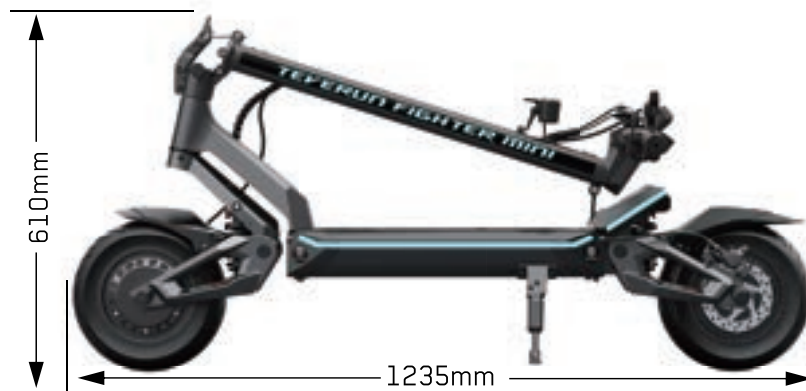
## 2 Precaution before driving

- 1 Night driving should be avoided at all times. Always wear helmets and other body guards and drive safely.
- 2 Select the mode that suits you and drive. In order to cope with sudden situations, be prepared to slow down by holding the brake at all times.
- 3 When turning left / right, slow down to avoid the danger of overturning or slipping, then slowly turn safely.
- 4 To go backwards safely, get off the product only after coming to a complete stop.
- 5 It is prohibited to use in any places that are slippery, crowded, have a steep slope, or are uneven.
- 6 When crossing a pedestrian crossing, get off from the product for pedestrian safety.
- 7 Do not drive in a way that threatens any other means of transport, such as animals, pedestrians, bicycles, motorcycles, cars, etc. turn safely.
- 8 When passing speed bumps and road obstacles, be sure to slow down. be sure to slow down.
- 9 When decelerating or braking, do not stop with your foot, but by using the brake appropriately.
- 10 Be careful as there is a risk of burns due to heat from the motor and brake (especially disk rotor) after driving.
- 11 It is prohibited to drive by holding the handle with one hand; please use both hands at all times.
- 12 Do not ride or drive when the kick stand is down.



## Product structure

### Scooter size



## Name of Parts



## What's in the Box:



## How to use products



Lift the handle post into a vertical position. And fasten handle.

Lock the handle bar



## How to fold



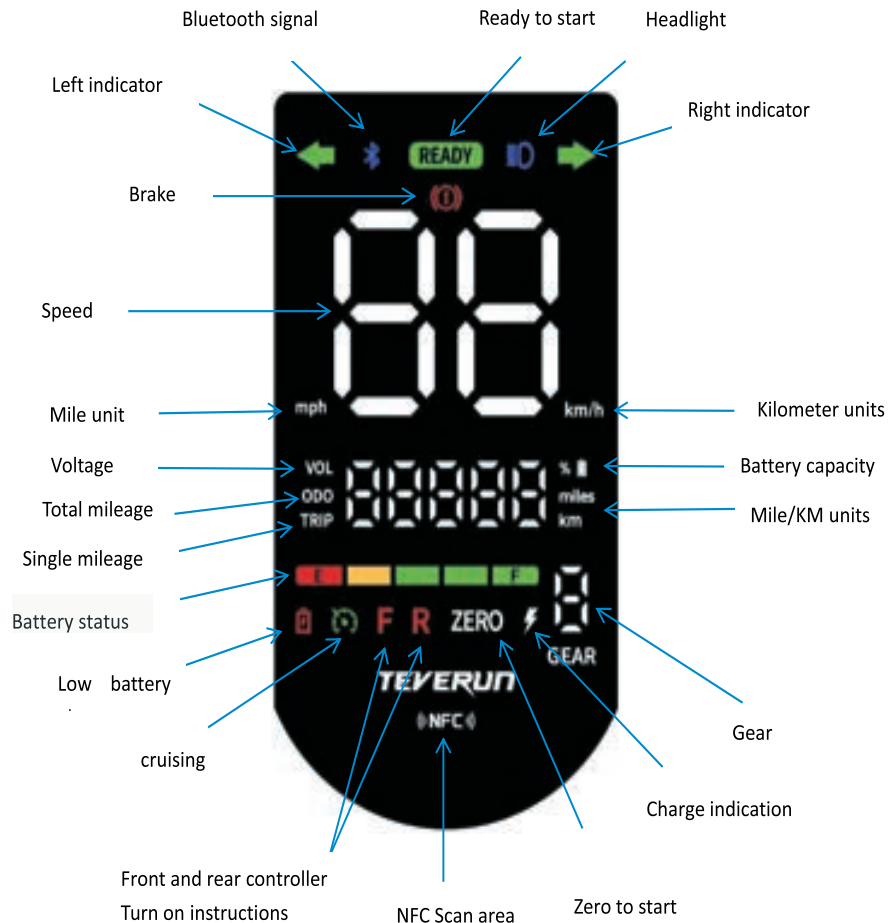
Pull the lock pin

Pull out the folding level



Done

## LED display instruction



## Operation method introduction

### Main interface

Short press twice the "M" key to enter the setting interface.

Px appears in the speed display to indicate the setting option, and the corresponding setting content appears in the mileage display

### Setting interface

Tap "+" and "-" to switch Settings.

Hold down "M" to enter the setting option, and the corresponding setting content starts to blink.

Short press twice "M" to exit the setting screen and return to the normal screen.

### Setting options

Tap "+" and "-" to change the Settings.

Hold down "M" to save the built-in content and exit the Settings option;

### Setting instructions

P1: Unit, 0 km, 1 mile (default 0)

P2: Voltage level 24/36/48/52/60/72

P3: Sleep duration 1-60 minutes. 0 does not sleep (default: 5)

P4: Wheel diameter 8-12inch, accuracy 0.1

P5: Number of velocity measurement magnets 0-100 (default: 30)

P6: Speed limit 0-100% (default 100%)

# Build-In TFT

P7:0 Zero start, 1 non-zero start (default 0)

P8:0 Off cruise, 1 automatic cruise, 2 manual cruise (default 0)

P9: Automatic P time 10-300 seconds, 0 off (default 30)

PA: SMART switch (default 0)

## Card copy

The main card placed in the card swiping area for 10 seconds to learn 1 sub-card, up to 6 sub-cards can be learned.

## Fault code

E1 Front or rear motor phase fault

E2 Front or rear motor Hall fault

E3 Battery Fault

E4 Throttle Fault

E5 Low voltage protection

E6 Front or rear E6 controller fault

E7 Display fault

E8 Controller high temperature alarm

E9 Battery high temperature alarm

## 1. Overview

This instrument mainly made for the display of the vehicle status (speed, mileage, power, etc.), different parameter setting;  
Anti-theft password management;  
Communication with the vehicle and other functions;  
To provide users with a more intuitive and beautiful user display interface, real-time vehicle status monitoring and friendly human-computer interaction, to escort the user's travel.

## 2. Statement

This document describes the functions, parameters and related precautions of the product. Users should read this document in detail and comply with the relevant industry specifications before operating the product. We are not be responsible for the product damage caused by improper operation or exceeding the use conditions specified in this manual.

Due to the update of the product, this document may modify the content without notifying the customer. If you want to know the latest product information or technical parameters, please contact your sales.

## 3. Product function

### ⚠ CAUTION

- Display the main data: the percentage of power supply, the current speed, maximum speed, average speed, single trip distance, total mileage, etc;
- Various function indications: Bluetooth connection, left and right side lights, drive, automatic cruise, zero start, etc;
- Real-time alarm prompt to display the current fault status;
- User custom Settings: display brightness, unit, etc;
- Multiple color themes can be adjusted;

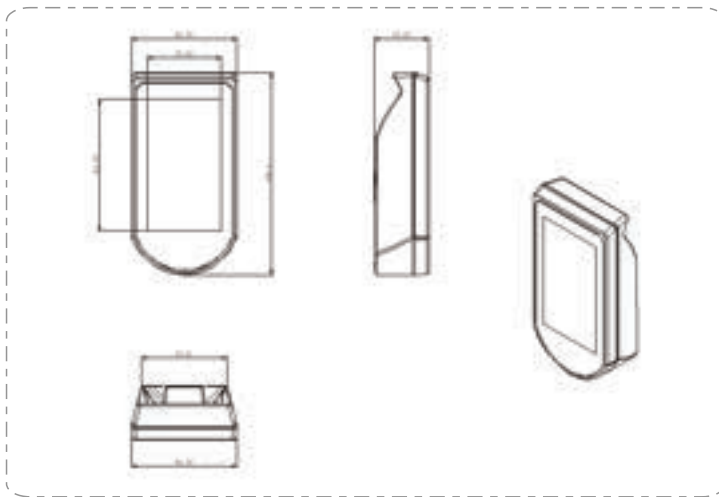
## 4. Basic Information

### 4.1 Material and color

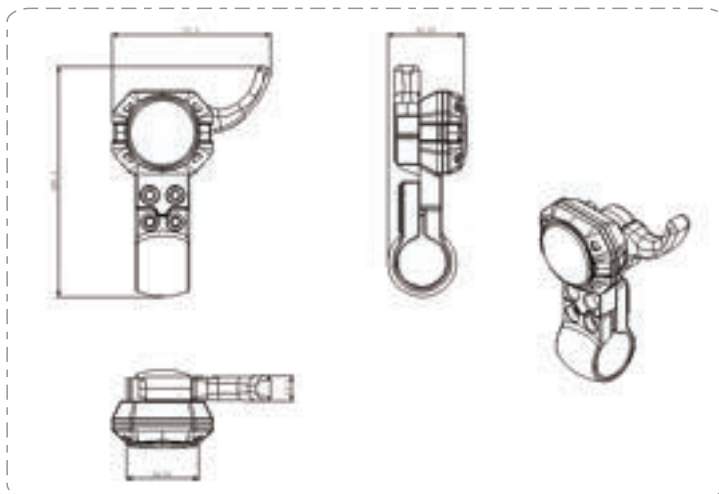
3inchTFT The overall instrument shell is black, made of PC material, waterproof grade IP67, can ensure good mechanical performance, waterproof performance, have excellent use performance.

### 4.2 size

(1) TFT instrument dimensions

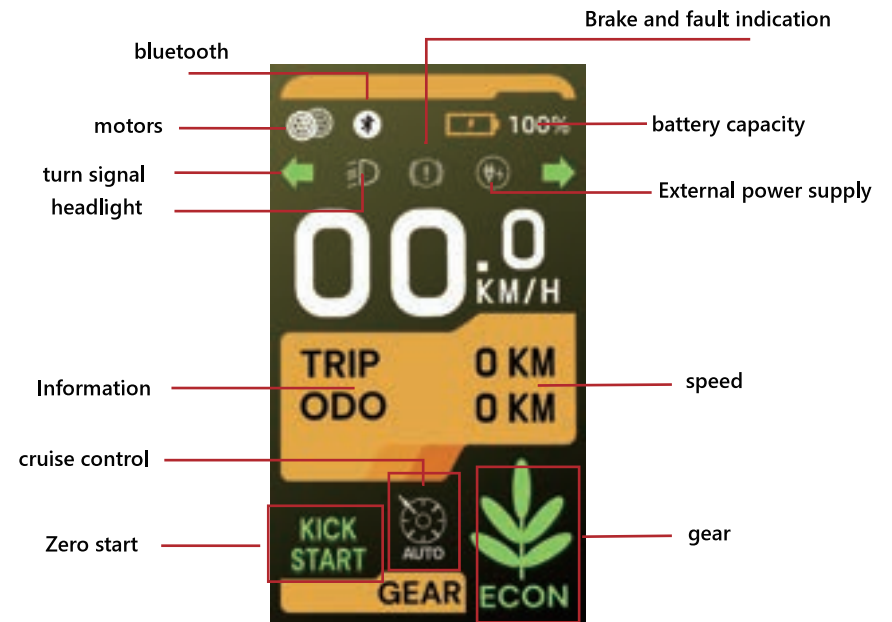


(2) Accelerator size



### 4.3 Interface content interpretation

**CAUTION**



\* by click 'M' button , The information bar could show the single mileage, the total mileage, the motor current, the front and rear motor temperature, the front and rear motor, the average speed and the maximum speed .











## 5. Icons and key button definition

### 5.1 Button definition

| Key icon | Key name             | Description of key (check operation description and user setting for specific key function) |
|----------|----------------------|---|
|          | "+" key              | Switch up the gears or options  |
|          | "-" key              | Switch down the gears or options  |
|          | Open / shut down key | Turn on or off  |
|          | "M" key              | Mode key, enter the mode settings or determine the options                                  |












## 5.2 Main interface icon definition

| Function icon   | Function name         | function declaration  |
|---|-----------------------|---|
|  | Left signal           | The icon lights up when the left light is turned on   |
|  | Right signal          | icon lights up when the right light is turned on  |
|  | headlight             | The icon lights up when the headlights are on   |
|  | PDA                   | When Bluetooth is not connected, the icon flashes;<br>When Bluetooth is connected, the icon is on   |
|   | motors                | Long press "M" key to switch single motor / dual motors   |
|  | External power supply | Long press the "+" key to turn on / off the external power supply<br>The icon lights when turned on |
|  | gear                  | Press + or- to adjust gears (1-5, ECON)   |
|  | Zero start            | The icon lights when zero start mode is on  |
|  | Automatic cruise      | The icon appears when the automatic cruise mode is turned on  |
|  | brake                 | he icon lights when braking   |

\* Automatic cruise and zero start function must be turned on in the APP (in Settings)

## 5.2 Main interface icon definition

| Fault icon  | Fault name                 | Troubleshooting                                      |
|---|----------------------------|--|
|    | Front controller failure   | The icon lights when the front controller fails      |
|   | Rear Controller Fault      | The icon lights when the rear controller fails       |
|  | FM hitch                   | Icon is lit up when the front motor hall is faulty   |
|  | RM hitch                   | Icon is lit up when the rear motor hall is faulty    |
|  | Battery failure            | Icon lights when battery fails                       |
|  | Accelerator fault          | Light the icon during the fault                      |
|  | System low voltage failure | Icon is lit up during the system low-voltage failure |
|  | display failure            | The icon is turned on during an display failure      |
|  | The system is too warm     | The icon rises when the system is over warm          |

## 6. Installation instructions

### 6.1 Install the dashboard

After the scooter is power off, insert the corresponding connecting line, adjust the display screen to a convenient use Angle, and check whether the instrument panel can be used normally after power-on.

### 6.2 Install accelerator


After the scooter power off, insert the corresponding connecting line, adjust the accelerator to the convenient use, and check whether the accelerator can start the scooter normally after the power.

## 7. Operating instructions

### 7.1 Turn on / off

Long press the Open / shut down key to turn on , entering the password for startup; long press the Open / shut down key to shut down.

### 7.2 gear

There are 6 gears in total, and the speed of 1~5 gears increases successively, in which 1 gear is pedestrian gear and "ECON" is low speed gear 

Click "+" to increase from "ECON" to 5, and click "-" to decrease from 5 to "ECON";  
The speed limit of 5 gears except "ECON" can be freely adjusted within the APP.

### 7.3 Password setting and input

When setting the input password: you can click the "+" key to add one value of the current password bit, reduce the current password bit by clicking the "-" key, jump to the next bit by clicking the "M" key, after setting, you can click the switch key to confirm the password;

With wrong password, the password will be automatically empty and return to the first place, you can re-enter the correct password.

### 7.4 Accelerator usage method

Push the accelerator down, and drive the scooter.

### 7.5 Theme color

Press the switch button for two times to set the four theme colors.



## 8. User settings

### 8.1 mode of entrance

Press the "M" mode key twice to enter the setting password interface, enter the password to confirm and enter the setting page.

### 8.2 Brightness

Press the "M" key, and when the word "Brightness" is beating, it is selected; You can adjust the display brightness through the "+" button up or "-" button down, a total of 10 gears; After adjusting to the appropriate gear, press the "M" key to confirm .then word "Brightness" is no longer beating.

(The following specific selection, switching, and determination options are the same as 8.2)

### 8.3 Unit System

Press "+" key or "-" key to switch up or down to "Unit" option and press "M" key; switch up or down, and the main interface will switch to Km/h or MPH.(You can also switch in the APP)

### 8.4 Automatic Shutdown

Switch to Auto off , select automatic shutdown (can be adjusted between 1-10 minutes) or OFF (no automatic shutdown).

### 8.5 System voltage

Display the system voltage, and the parameters can be set through the APP.

### 8.6 Wheel diameter

Displays the wheel diameter of the product, and the parameters can be set through the APP.

### 8.7 PACK Voltage

Displays the current battery voltage.

### 8.8 PACK temperature

Displays the current battery temperature.

### 8.9 Charging cycles

Displays the number of battery charging cycles.

| SETTING     |        |
|-------------|--------|
| >Brightness | 10     |
| Unit        | Metric |
| Auto off    | 10Min  |
| SysVol      | 48 V   |
| Diameter    | 11inch |
| PackVol     | 50.0V  |
| PackTmp     | 24deg  |
| Chargecnt   | 2      |
| SetSyspwd   | >      |
| SysPwdEn    | ON     |
| Exit        |        |

### 8.10 Set the system password

After selecting "SetSyspwd", you will jump to the password modification interface. You can change the system password according to the password setting and the input operation mode. You can use the new password after entering the next time.

### 8.11 System password switch

After selecting "SyspwdEn", you can set the system password switch. After opening, the password can enter the system, and it can enter without the password.

### 8.12 Exit method

You can select Exit down or press M twice in a row to exit the Settings page directly.

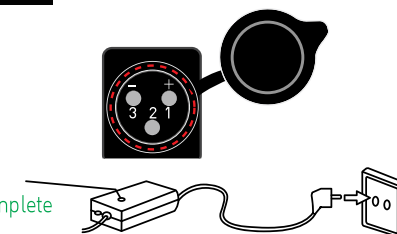
## How to use the charger correctly

3P charger connector

### 1) Basic charging method






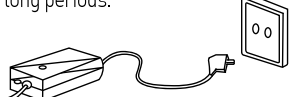
1. Open the charger port cap and connect it to the connector of the charger and connect it to the household outlet.

2. Charging status indicator
  - (Red) Charging
  - (Green) Charging complete



3. Be sure to close the charger port cap when driving or storing except when charging.
4. When connecting the connector to the charger port, there may be metallic sparks due to voltage difference, but this is normal.

### 2) Basic charging method \* Failure of the charger and abnormal conditions can cause electric shock and fire. Learn the correct usage and prevent safety accidents in advance.

|  |   |
|--|---|
| 1. Manufacturers and sellers are not responsible for any problems arising from any disassembly, modification, or mixing with other chargers.    | 2. The charger is forbidden to be used in places subject to high humidity, heat, flammable materials, confined spaces, or where there is no ventilation such as in a car.  |
| 3. The charger is not waterproof. It is thoroughly controlled to prevent moisture from entering the charger.    | 4. Children and pets should not be allowed to approach the charger when they come into contact with them, as they may cause an electric shock.                             |
| 5. If the charger lamp does not light, charger fall down, strong external shock, long time charge, or cable cover damage, discontinue use immediately and contact the service center  | 6. Unplug the charger when you are away from the home for long periods.   |

7. Use only genuine charger.
8. Do not insert conductors into the charging port.
9. Do not touch the plug for about 10 seconds after unplugging the charger. There is a risk of electric shock from instantaneous discharge.
10. Do not remove the terminal during charging. Otherwise you may charge the internal circuit of the charger and cause malfunction.
11. Do not operate the product during charging.
12. Charging terminals should be firmly contacted during charging and should not be used if terminals are corroded or damaged.
13. When disconnecting the charger from the product, it is safe to hold the terminal without holding the wire.
14. Be sure to keep the charger disconnected from the product after the charging is complete. The charger must be disconnected if it is not used for longer than a few days, as there is a risk of overcharging when charging more than the time indicated on the product specifications.

**WARNING**

## Safety precautions for Lithium battery

- 1) Care** Lithium batteries should be protected from direct exposure to children and pets.
- 2) Performance**
  1. Lithium battery is affected by external temperature. In the winter, when the temperatures are low, the performance of the battery may be temporarily deteriorated and the mileage and power output is reduced.
  2. Lithium battery has a characteristic that discharge performance is reduced by more than 15% when charging / discharging 300 times or more. If usage time is shortened due to long usage, it should be replaced with a genuine one through the nearest point.
- 3) Charging**
  1. Lithium battery should be used only with genuine battery and charger supplied from the manufacturer. Any problems caused by use of battery made by the manufacturer, mixed use, or using the charger are not covered by the manufacturer.
  2. Charging the lithium battery with a non-genuine charger may cause malfunction or fire.
  3. The lithium battery should be charged in a well-ventilated, dry place and around the charger in a place where there is no flammable material.
  4. Lithium battery should be charged at 0 ~ 45°C and discharged within -10 ~ 60°C .  
The sub-battery must be charged at 0 to 50°C and discharged within -20 to 75°C.  
Charging or discharging at a temperature outside this range may cause malfunction, fire or explosion.
  5. In case of moving from cold outside to warm indoor, please charge it after 1 ~ 2 hours.  
This is to prevent condensation from occurring inside the product due to the temperature difference.
- 4) Storage**
  1. Lithium batteries should be kept away from snow, rain and direct sunlight.  
Do not store or charge them in a trunk or hot room.  
Select a dry place and store at room temperature (10 ~ 20 °C).
  2. When storing for more than 3 months, charge the remaining battery level to 70 ~ 80% (do not store full charge).
- 5) Trouble symptom, safety**
  1. Lithium battery should be discontinued immediately if it is damaged or there is leakage of battery, sour odor, appearance deformation, etc. Please contact the place of purchase to get technical support and service.
  2. If overheat, smoke, or ignition is detected in a product with lithium battery, immediately stop charging and use, move the product outdoors as soon as possible, and then use a fire extinguisher to extinguish flames. Do not spray water or immerse the product in any situation, which can lead to more danger.
  3. Lithium battery pack has very high energy density, so if you charge the battery for a long time and there is a case of short-circuit, leakage, bad battery, etc., it can lead to ignition.  
Therefore, you should avoid charging for a long time without a person being present to avoid the risk of unexpected fire.
- 6) Misuse** If the lithium battery is short-circuited, the polarity is changed, or if the battery is impacted, malfunction or fire may result.  
If you think that the battery has been impacted, you should stop charging and using it and visit the nearest service center for inspection.
- 7) Water inflow** It should be controlled to prevent water inflow into the lithium battery.  
There is a risk of fire or electric shock if the charger is connected while moisture is present.
- 8) Caution** Disconnect the battery from the main unit except when recharging and reinstalling.  
Do not use for any other purpose.
- 9) Disposal** When disposing of the lithium battery, the battery should be separated from the product at the point of purchase or near the service center and the charge and discharge terminals are not short-circuited. Dispose of it as industrial waste.



### Battery disassembly prohibited

Battery disassembly, modification, and repair are not covered under warranty.

## Safety guidelines before driving

### 1) Required checking before use

#### 1. Check throttle and handle

- Operate the accelerator throttle lever about 2 ~ 3 times to check whether it returns to the home position.
- Be careful that excessive throttle leaning and manipulation of the throttle can cause malfunction due to internal parts damage.
- Check for free gap in the handlebars before using.



#### 2. Check brake and cable

- The brake braking force is sufficient to check the operating condition.  
If the braking force is significantly lowered, use it immediately after inspection and action.
- Check that the brake pad is not worn, that the cable is not loose, that the cable is not damaged, and that there is no leakage in the case of hydraulic brakes
- If there is an unusual feeling or noise during operation, check for breakage, wear, and deformation of the inner wire of the brake cable.
- Check that the bolts and nuts of the brake fixing parts are not loose and that the disc is not deformed or damaged.



#### 3. Check tire pressure and abnormal tread wear

- Check the front and rear tires for wear and punctures and check the value marked on the surface of the tire.  
When the air pressure is shortened, the possibility of puncture increases, so check always.
- It is necessary to judge the replacement time by observing the appearance of the tire such as tire damage, uneven wear.



#### 4. Tightening check such as folding part and handle part

- Make sure that the bolts and nuts of all parts of the product are tight and safe from loosening. Check the fastening condition and clearance of the folding and fixing parts of the handle (folding knob, swing arm, etc. folding related parts, suspension arm bolt, swing arm bolt).



#### \* In these cases, stop driving immediately.

If you encounter any of the following situations while driving, stop driving immediately and contact your nearest branch or service center for proper measures.



If you provide pictures and videos to get an accurate diagnosis, professional counseling is available.

- Unusual heating of the motor
- Brake braking status error
- Error messages on the instrument panel
- When the throttle is not returned to its original position
- When the battery doesn't fully charge and shorter riding distance after a full charge (Battery explosion may cause due to faulty battery cell or battery cell breakdown)
- Abnormal noise is generated
- Product smoke, ignition, sour odor
- When rain or wet with water or in a similar situation
- When other driving is judged to be unreasonable

## Check and Maintenance

### Maintenance and self-maintenance

Electric products can be damaged by various factors. The life span of each part varies depending on driving habits and driving environment.

Parts that exceed the service life may cause accidents. Let's manage various parts and prevent safety accidents in advance.

### Check the replacement timing of consumable parts

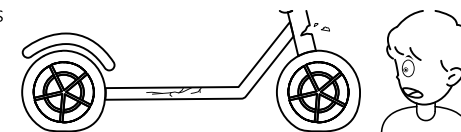
The components and suspension parts of the swing arm, tires, wheels, bearings, discs, brakepads, cables and folding parts, various brackets and other consumable parts require periodic inspection and must always be checked.



| Parameter       |                              |   |   |                              |   |
|-----------------|------------------------------|---|---|------------------------------|---|
|                 | TEVERUN FIGHTER<br>MINI ECO  | TEVERUN FIGHTER<br>MINI                   | TEVERUN FIGHTER<br>MINI PRO               | BLADE GT II                  | BLADE GT+ II                              |
| Tire size(inch) | 10X3.0                       | 10X3.0                                    | 10X3.0                                    | 90/85-6.5                    | 90/85-6.5                                 |
| max power       | 1000w                        | 1000w                                     | 1000w                                     | 1000w                        | 1000w                                     |
| Maximum speed   | 25km/h                       | 25km/h                                    | 25km/h                                    | 25km/h                       | 25km/h                                    |
| Display         | LED display                  | TFT display                               | TFT display                               | LED display                  | TFT display                               |
| Maximum range   | 50km                         | 70km                                      | 90km                                      | 80KM                         | 120KM                                     |
| Brake           | full hydraulic Disc<br>brake | full hydraulic Disc<br>brake              | full hydraulic Disc<br>brake              | full hydraulic disc<br>brake | full hydraulic disc<br>brake              |
| Suspension      | spring suspension            | KKE adjustable<br>hydraulic<br>suspension | KKE adjustable<br>hydraulic<br>suspension | spring suspension            | KKE adjustable<br>hydraulic<br>suspension |
| Battery         | 52V 15.6AH                   | 52V 20AH                                  | 60V 25AH                                  | 60V 26AH                     | 60V 30AH<br>SAMSUNG                       |
| Controller      | sine wave 25A X2             | sine wave 25A X2                          | sine wave 25A X2                          | Sine Wave 37 X2              | Sine Wave 37 X2                           |
| Charger         | 58.8V 2A                     | 58.8V 2A                                  | 67.2V 2A                                  | 67.2V 2A                     | 67.2V 5A                                  |

### External damage inspection by driving environment **⚠ CAUTION**

- ① Replace parts that may be damaged by the external driving environment, such as deformation of parts or tiny cracks due to pressure.
- ② If the product is exposed to strong sunlight for a long time, discoloration may occur.
- ③ In case of jumps, slight impacts such as turning, collision, etc., when driving frequently or for a long time in a poor road condition or driving for thousands of kilometers or more, fatigue breakdown phenomena may happen so please check the parts replacement schedule for each product and replace accordingly for safety.
- ④ Fatigue breakdown and maintenance parts may differ from the example conditions depending on the driving environment and the operating conditions. Also check parts other than the replacement cycle (maintenance parts) at all times to check for any signs of abnormality.



## Important check list

※ Metal vibration may occur due to motor vibration and the vibration of the brake disc and pad during the load section that accelerates during driving. (About 15 ~ 30Km, different for each product)

This is a phenomenon in which all rotations (fans, automobiles, ships, etc.) are vibrating at a specific rotational frequency (rpm) rather than the product. However, if the continuous noise or metal noise is large, there is a possibility that the disk will become bent and deformed.

※ Please note that after running, there is a risk of burns due to the heat on the motor and brake (especially disk rotor) side.

※ Be careful that the bolts of the motor, rim, and motor shaft may become loosened due to the ABS function.

※ For inspection and repair, remove the side cover, attach the power switch, and attach it with the product's standard bolt. When tightening, carefully remove the cover of the wiring.  
Bolts other than the rule bolts (long bolts) can cause serious damage to the battery casing (battery cells), which can cause fire or safety accidents.

※ Folding parts and joints where movement occurs due to product characteristics can naturally damage the surface or paint surface during use, especially when operating in incorrect operation and form.

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※ When inspecting the product, keep two wheels away from the ground and work on a safe workstation

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