

#### **FIND YOUR LANGUAGE**

Scan the QR code to access the user manuals in German / Dutch / French / Italian / Spanish

User manuals in English / German / Dutch / French / Italian / Spanish are also available inside the TENWAYS App.



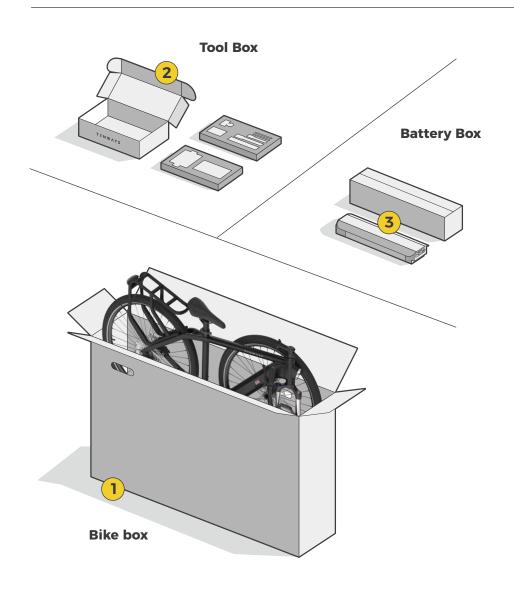
**QR Code** 

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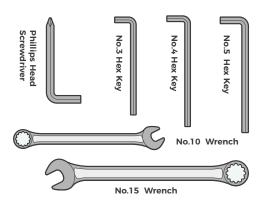
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#### **TOOLBOX CHECKLIST**



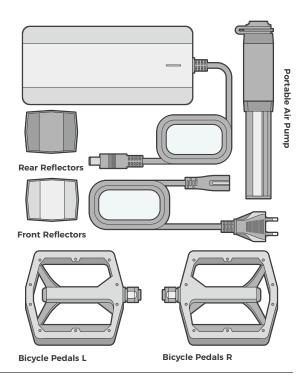
#### **Tools**

No.3 Hex Key No.4 Hex Key No.5 Hex Key No.10 Wrench No.15 Wrench Phillips Head Screwdriver



#### Accessories

Charger and adapter Bicycle Pedals L Bicycle Pedals R Portable Air Pump Front & Rear Reflectors



#### **BICYCLE - STRUCTURE AND COMPONENTS**



# ASSEMBLE YOUR TENWAYS E-BIKE

01. INSTALL THE HANDLEBAR

O2.

DETACH THE FRONT WHEEL

03.
INSTALL THE KICKSTAND

O4.
REMOVE THE QUICK RELEASE FROM THE FRONT FORK AND PRE-INSTALL IT ON THE FRONT WHEEL

05.
INSTALL THE FRONT WHEEL

06.
INSTALL THE FRONT MUDGUARD

07.
INSTALL THE BATTERY

08.
INSTALL THE PEDALS

09. ADJUST THE HEIGHT OF THE SADDLE

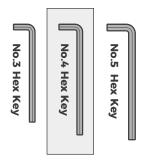
10.
INSTALL THE REFLECTORS

O ] . INSTALL THE HANDLEBAR

#### **Tools needed: No.4 Hex Key**

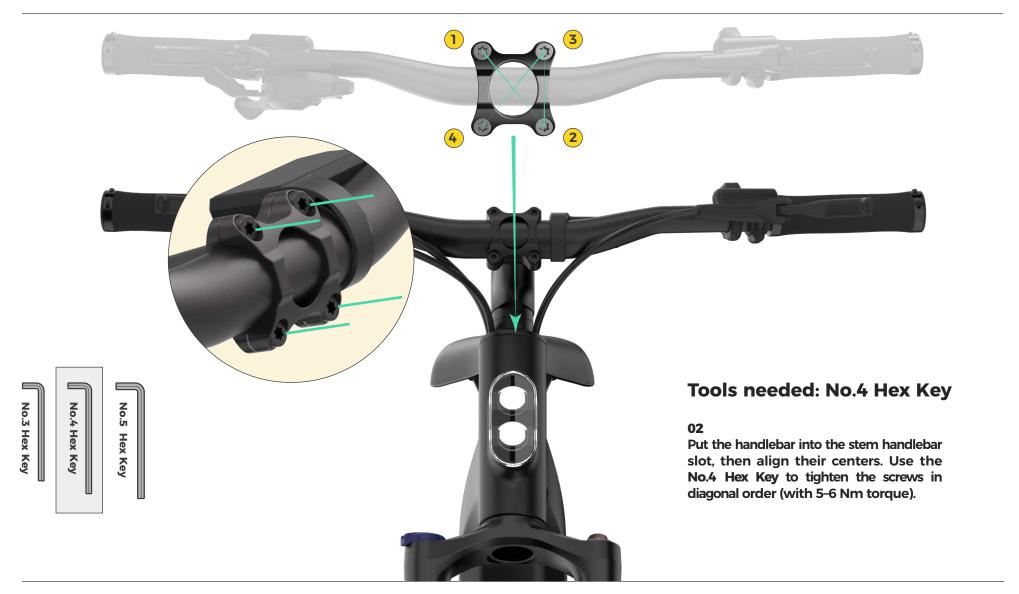
01

Hold down the front fork with one hand and turn the stem to the fron, then remove its front attachment with No.4 Hex Key.





### O ] . INSTALL THE HANDLEBAR



### O 7. INSTALL THE HANDLEBAR



#### **Tools needed: No.4 Hex Key**

#### 03

Adjust the direction of the headset, and use the No.4 Hex Key to tighten the screws at the stem and front fork (with 5-6 Nm torque).

#### 04

Match the colors of the cable connectors. and connect the display cables.

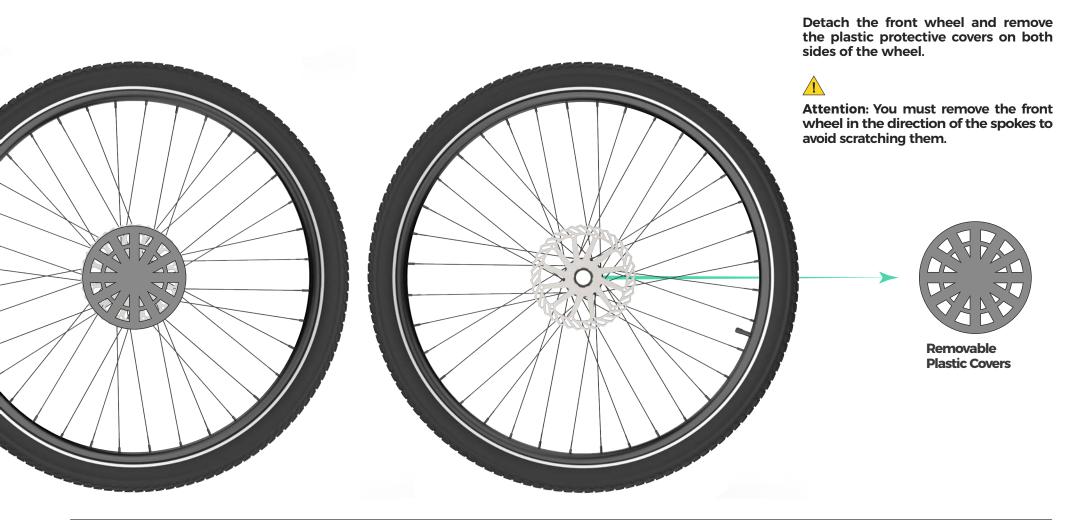






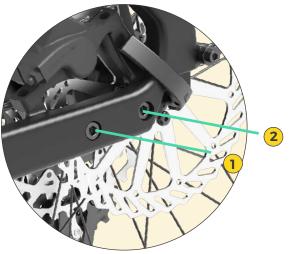
**Attention:** Only connect cable connectors of the same color. Connection between cable connectors of different colors could potentially damage the bike.

### 02. DETACH THE FRONT WHEEL



### 03. INSTALL THE KICKSTAND





### Tools needed: No.5 and No.4 Hex Keys

#### 01

Fix the kickstand to the frame with the No.5 Hex Key; the torque should be 9-12Nm.

#### **02**

Adjust the length of the kickstand with the No.4 Hex Key (it is recommended to adjust the length of the kickstand to the maximum); the torque should be 5-7Nm.



### O4. REMOVE THE QUICK RELEASE FROM THE FRONT HERONT WHEEL

#### 01

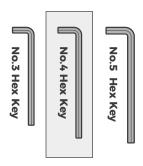
Loosen the nut and detach the quick release.

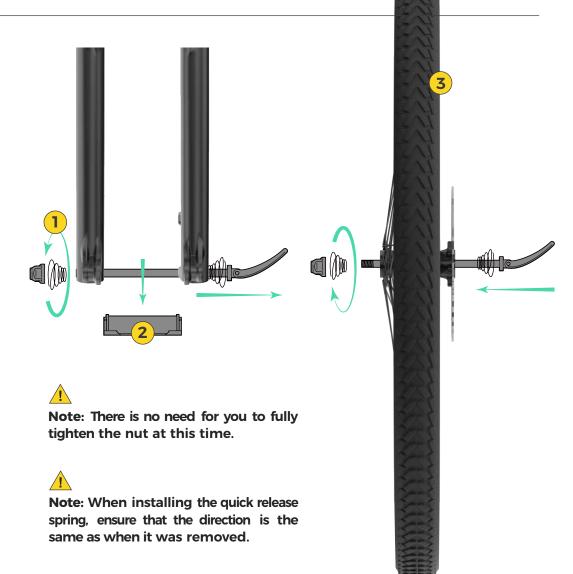
#### 02

Remove all wrapping material from the quick release.

#### 03

Install the quick release on the front wheel in the direction shown in the figure, and then tighten the nut.





### 05. INSTALL THE FRONT WHEEL

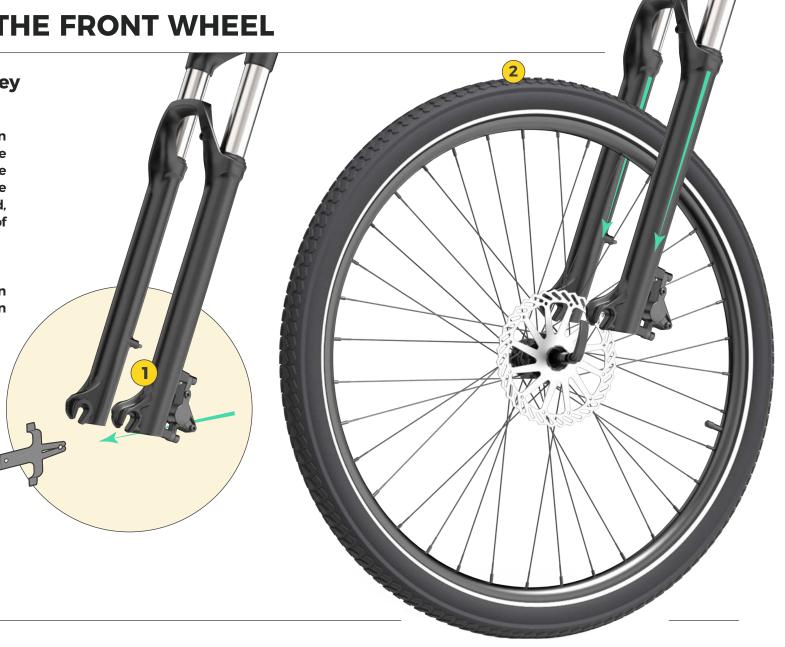
#### **Tools needed: No.5 Hex Key**

#### 01

Set the quick release lever to the open position, and remove the protective sheets from the brake clamps. Guide the front fork to the front wheel: make sure that the front wheel is centered. and the brake disc is in the middle of the brake clamps.

#### 02

Tighten the quick release nut, and then turn it to the closed position as shown in the figure.





**Tools needed: No.5 Hex Key** 

03

Push the bike back and forth and press the brake to check if the front wheel wobbles. If so, please repeat step 2 until you feel enough resistance when closing the quick release lever.

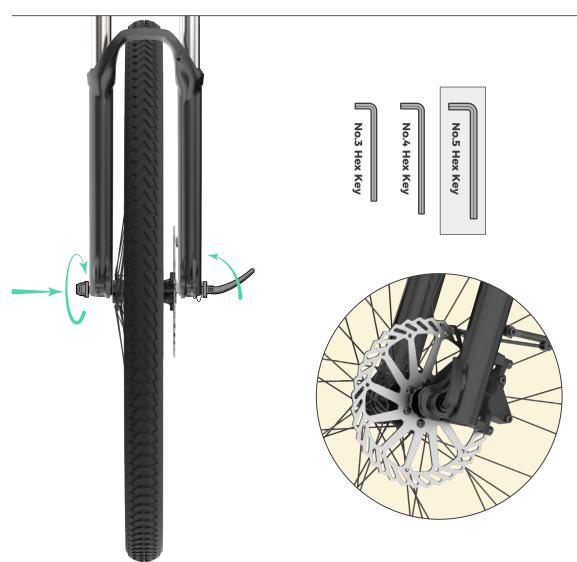
#### 04

Turn the front wheel by hand and check if there are any signs of scraping.

No.4 Hex Key Нех Кеу



### 05. INSTALL THE FRONT WHEEL



#### **Tools needed: No.5 Hex Key**

#### 05

If yes, please follow the steps below to make adjustments:

- Use the No.5 Hex Key to slightly loosen the mounting screws of the brake clamps so that they can move slightly.
- Press the front brake 3 to 5 times.
- Hold the front brake lever and tighten the mounting screws of the brake clamps.
- Turn the front wheel by hand and check for the friction sound.
- If the friction source can be heard, loosen the mounting screws of the brake clamps.
- Manually adjust the position of the brake clamps to center the disc, and tighten the screws again.

# 06. INSTALL THE FRONT MUDGUARD **Front View Side View**

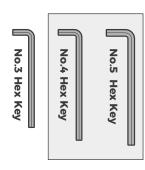
#### Tools needed: No.4 and **No.5 Hex Keys**

#### 01

Adjust the distance between the mudguard and the tire, then use the No.5 Hex Key to fix the mudguard lug to the front fork. The torque should be 8-10 Nm.

#### 02

Use the No.4 Hex Key to fix the mudguard supports. The torque should be 3-4 Nm.





### 08. INSTALL THE PEDALS

#### **Tools needed: 15mm Wrench**

#### 01

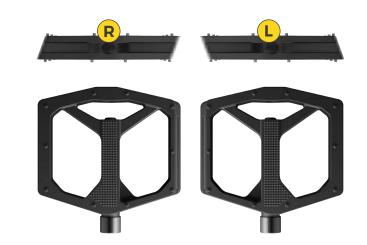
Distinguish between the left and right pedals. The right and left pedals are marked by an R and an L respectively. The right pedal is used for the side with the crankset, while the left one is used for the other side.

#### 02

Tighten the right pedal clockwise and the left pedal counterclockwise.

#### 03

If you feel great resistance, stop tightening the pedals. Then, realign and install the pedals again.





**Note:** Do not install the pedals forcibly if you feel great resistance.



15mm Wrench



### 09. ADJUST THE HEIGHT OF THE SADDLE

Open the seat post clamp, adjust the saddle to a suitable height, and lock the clamp.





#### Note:

a. The height of the seat post should not exceed the marked safety line.

b. The height of the seat post is set to the minimum when fully inserted.

TENWAYS

### 09. INSTALL THE REFLECTORS

#### **Tools needed: Phillips head screwdriver.**

#### 01

Distinguish between the front reflector and the rear one. The rear reflector is red. while the front one is white.

#### 02

Use the Phillips Head Screwdriver to install the rear reflector to the seat post and the front one to the handlebar.





# DISPLAY OPERATIONS

O1.
DISPLAY SIZE

02. FEATURES AND PARAMETERS

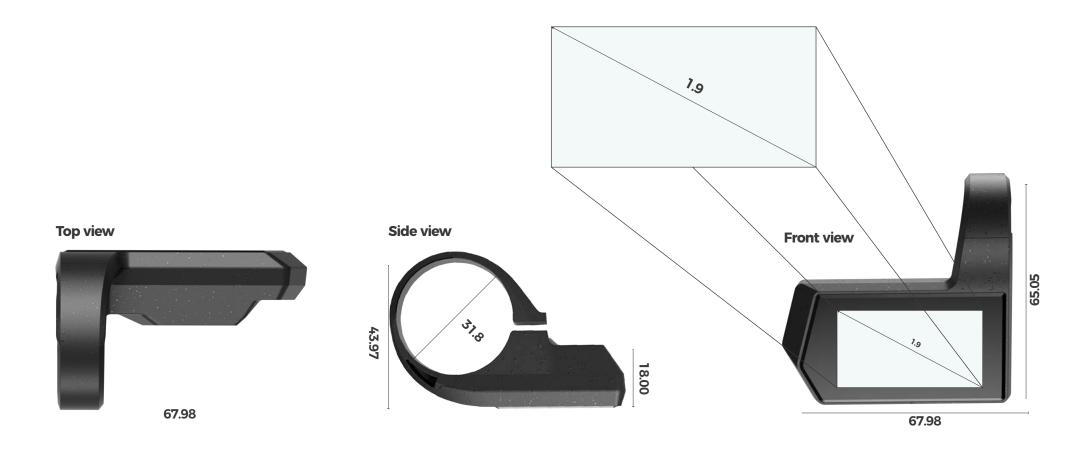
03. BUTTONS

04. OPERATION METHODS

05. USER MENU



### O1. DISPLAY SIZE



### 02. FEATURES AND PARAMETERS

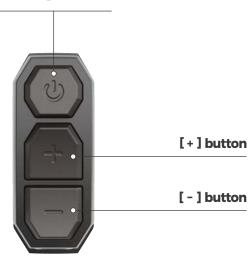
The display shows common riding data and statistical results and provides the following features:

- Real-time speed, maximum speed, and average speed
- Battery power
- Assistance mode
- ODO and TRIP
- Trip time
- Calories burned
- Light indications
- Metric / imperial unit switching
- Error code
- Backlight adjusting
- Auto power-off time
- Type-C USB port (5V/1000 mA)
- App connection and data synchronization

### 03.8

Button	Name	Functions
Ф	[ Power ] button	Turn the display on/off.     Confirm the function.
+	[+] button	Adjust parameters.     Turn the light on/off     Menu operations
_	[ - ] button	Adjust parameters.     Enable/disable the assistance function.     Menu operations

#### [ Power ] button







Note: Please only take the display operations mentioned in this manual as a reference, as the actual interface may be slightly different if the software gets updated later. If you have any questions, please email support@tenways.com.

#### 4.1 Turn the display on/off

If the display has been configured witha passcode, press and hold the [Power] button and enter the correct passcode to access the logo interface; the riding interface will appear after 2 seconds.

If the display has not been configured with a passcode, press and hold the [ Power ] button to access the logo interface; the riding interface will appear after 2 seconds.

In power-on state, press and hold the [Power] button to turn off the display.

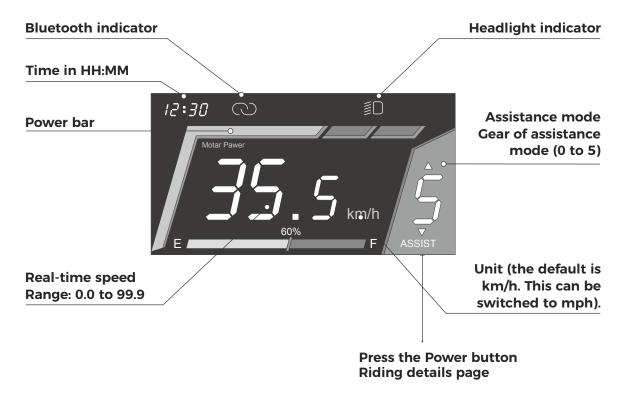
**INPUT PASSWORD** 



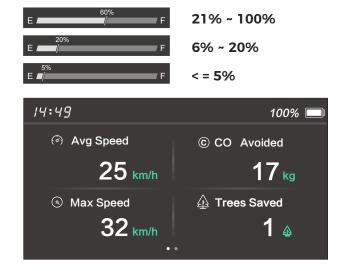


#### 4.2 Riding interface

Riding parameters are displayed on this interface:



#### **Battery power**





#### 4.3 Changing the PAS levels

Click the [+] or [-] button to change between PAS levels.

Press and hold the [ - ] button to enter the 6km/h walking mode, and release this button to exit the mode.

#### 4.4 Turn the lights ON/OFF

Press and hold the [+] button for 2 seconds to turn the lights ON/OFF.

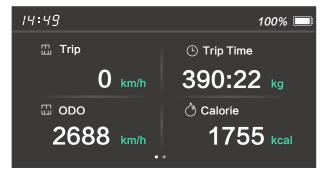
#### 4.5 Reset the trip mileage

Press and hold the [Power] button and the [+] button simultaneously to reset the trip mileage.

The maximum speed, average speed, total trip time, and total calories will also be reset when the trip mileage is reset.







#### 4.6 Error codes

Common error codes (The following information is only for reference. If you see an error code, please contact TENWAYS at support@tenways.com ):

Description	Error code
The current is abnormal or the MOS tube is damaged	Overcurrent Error
Handlebar abnormalities	Throttle Hall Error
Motor phase loss	Motor Phase Error
Abnormal hall signals of the motor	Motor Hall Error
Brake abnormalities	Brake Error
Undervoltage	Undervoltage Warning
Communication errors	Communication Error

Press and hold the [+] and [-] buttons simultaneously for 1s to enter the user menu interface. You can set the speed limit, data units, auto power-off time, and backlight brightness on this interface.

The system returns to the riding interface automatically if no operation is performed on the user menu interface for more than 60s.





#### 5.1 Clear the trip mileage

After entering the menu preview interface, press the [Power] button to confirm clearing the trip data.

#### **5.2 Unit settings**

After entering the menu preview interface, press the [Power] button to enter this menu item, and then click the [+] or [-] button to switch between km/h and mph.

Press the [Power] button to confirm and save the setting, and switch to the next menu interface.

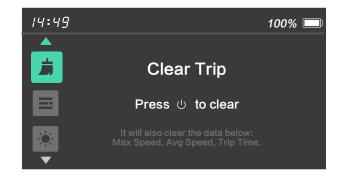


### **5.3 Display backlight brightness settings**

After entering the menu preview interface, press the [Power] button to enter this menu item, and then click the [+] or [-] button to set the brightness to AUTO, 1, 2, 3, 4, or 5. AUTO means automatic backlight.

Press the [Power] button to confirm and save the setting, and switch to the next menu interface.







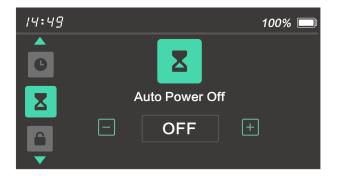


#### 5.4 Set the auto power-off time

After entering the menu preview interface, press the [Power] button to enter this menu item, and then click the [+] or [-] button to set the auto power-off time to a value ranging from 0 minute to 99 minutes. OFF means the auto power-off function is disabled.

Press the [Power] button to confirm and save the setting, and switch to the next menu interface.



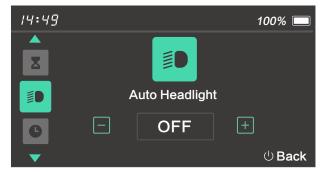


#### **5.5 Auto headlight settings**

After entering the menu preview interface, press the [ Power ] button to enter this menu item, and then click the [ + ] or [ - ] button to select from ON / OFF.

Press the [Power] button to confirm and save the setting, and switch to the next menu interface.



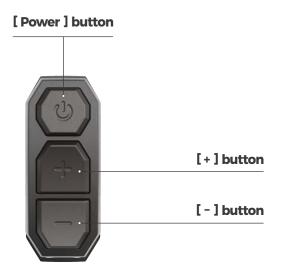


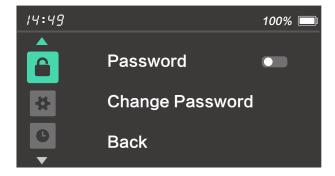
#### **5.6.User password settings (configurable)**

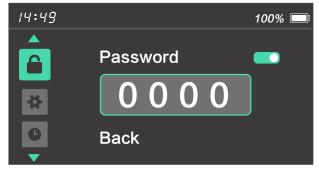
After entering the menu preview interface, press the [Power] button to enter this menu item, click the [+] or [-] button to select the Password option, and press the [Power] button to enter the Password item and select ON or OFF. Press the [Power] button to confirm the adjustment and exit.

When the Password option is ON, press the [Power] button to enter the Change Password item and change the current password by starting from the first digit. When the first digit "1" starts to flash, click the [+] or [-] button to select a number from 0 to 9. Press the [Power] button to confirm the setting and go to the second digit. Repeat the operation to change the entire password.

Select Exit to exit the user password setting interface.









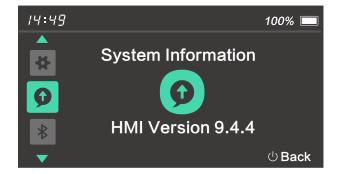
Note: The Password option is displayed on the user menu interface only when the password is configured in the advanced menu.

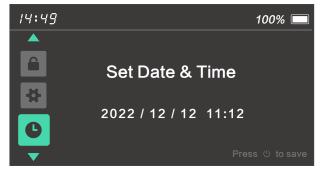
#### **5.7 System information**

The system information such as the software version will be displayed after you enter the menu preview interface.

#### **5.8 Time settings**

After entering the menu preview interface, press the [ Power ] button to enter this menu item. Click the [+] or [-] button to select a value ranging from 00 to 23 after the hour flashes. Press the [ Power ] button to confirm the setting and go to the minute, and click the [+] or [-] button to select a value ranging from 00 to 59. Press the [ Power ] button to confirm and save the setting, and switch to the next menu interface.





### **BIKE USAGE**

O1.
CONNECT TO THE TENWAYS APP

O2.
BEFORE YOUR FIRST RIDE

O3. ROUTINE MAINTENANCE

O4. FRAME CODE

### O 1. CONNECT TO THE TENWAYS APP

- 1. Turn on the Bluetooth feature of your phone.
- 2. Open the TENWAYS app.
- 3. Click "Register", and then scan the QR code on the frame. The QR code can be found near the bottom bracket at the bottom of the frame down tube.
- 4. Fill in the color and seat post height of your e-bike, and give your e-bike a name.
- 5. Turn on the display of your e-bike and enter the passcode.
- 6. Your e-bike is connected to the TENWAYS app automatically 10s later.

#### Charge the battery to 100% before your first ride.

- When charging your e-bike:
- 1. Charge the bike indoors and keep it away from direct sunlight, ain, or snow.
- 2. Use only the TENWAYS charger to charge the bike.
- 3. Ensure a proper ambient temperature. The best ambient temperature for the charger is between 20°C and 25°C. A lower temperature may lead to insufficient charging, while a higher temperature may lead to overcharging.
- 4. It is recommended to remove the charger immediately after the bike is fully charged to avoid overcharging the battery.
- 5. When using the charger to charge the battery, connect the charger to the battery charging port, and then connect the charger to the power socket. When removing the charger, disconnect the charger from the power socket, and then disconnect the charger from the battery charging port.
- Check the tire pressure by hand or with a gauge and ensure the pressure is within the range of 40 - 65 PSI or 2.8 - 4.5 bar.
- Check that the transmission chain is correctly hung on the chainring and freewheel (the chain may drop outwards during transportation due to the existence of a rear derailleur). Before riding your e-bike on roads, ensure compliance withlocal riding regulations, for example those governing riding equipment, control lights, and reflectors. Make sure that you wear the correct protective equipment. Always wear a helmet and ensure that your vision is clear.

- When properly adjusted, the saddle should be at hip height.
- Check and ensure that the front wheel quick release, handlebar, brakes, pedals, and other related parts of the e-bike are properly fastened before you start to ride.
- The brake settings vary by country / region. Check which brake lever acts on which brake first, and if it does not comply with your habits, we recommend that you ask an expert to change the settings so that you can accurately brake the front and rear wheels if an emergency occurs while you're riding. If you encounter any problems while riding, please brake first ( please brake both wheels at the same time to stop within the shortest possible distance ).
- Check the steering; the steering has a crucial impact on braking and riding safety.
- We recommend that you purchase relevant insurance for bikes or e-bike riding in your area. This way you can contact your insurance company or agency promptly to get adequate protection in the event of an accident.

#### **Daily inspection**

Before riding, check that screws in the following key parts are properly tightened:

- 1. Screws between the stem and the front fork
- 2. Screws between the handlebar and the stem
- 3. Screws between the brake lever and the handlebar
- 4. Screws between the brake clamps and frame or front fork
- 5. Screws between the discs and bottom brackets

Use the tools provided to tighten any loose screws.

After all screws are properly tightened before the first ride, check that they have maintained the same fastening performance after 200 km of riding. Following the initial 200 km, check the screws after every 1000 km of riding.

It is recommended to check the fastening performance of screws at every 600 km if you usually ride under complex road conditions.

#### **Daily cleaning**

- Use a rag or large brush to clean off dust when there is not much mud on your e-bike.
- When there is a lot of mud on your e-bike, use a brush dipped into soapy water to wash it off, rinse it with a little clean water, then dry it with a soft cloth.
- Apply 2 to 3 drops of lubricant at each link turning point after the chain is cleaned and dried.
- Check the wear degree of the brake blocks after you have cleaned them to see if they can ensure normal braking. Replace them promptly if they are seriously worn.
- It is recommended to clean the e-bike after you ride it for about 200 km. You
  need to clean the bike first before you put it into storage if you plan to not ride
  for a long period of time.

#### How to maintain the battery

Operating and storage temperatures of the battery.

The working temperature of the lithium battery is 0°C to 30°C. It is recommended that the lithium battery be stored in an environment where the temperature is 0°C to 25°C with 65±20% RH.The performance of lithium batteries is affected by the ambient temperature. Don't worry if the performance of your battery degrades in cold weather.

The battery performance will resume when the temperature rises.

If possible, the battery should not be charged above 95% or discharged below 10%, as this may decrease battery life. A reasonable charging and discharging scheme can mitigate accelerated battery deterioration or damage.

If you are not using your e-bike for an extended time, keep the power at 50% to 70%, check the battery condition every 2 months to avoid damage caused by over-discharging, charge and discharge the battery every 3 months.

#### How to maintain the brakes

The new brake blocks and discs feature relatively smooth surfaces, so the braking effect will improve after you ride 100 km or brake on long downhills 3 to 5 times, when such surfaces become roughened.

Check screws between the brake lever and the handlebar, as well as screws between the brake clamps and frame or front fork:

- 1. Check if these screws maintain the same fastening performance when your e-bike reaches a 200 km riding distance.
- 2. Check the fastening performance at every 1,000 km after the initial 200 km.
- 3. It is recommended to check the fastening performance of screws after every 600 km if you often ride under complex road conditions.

The wear degree of brake blocks should be checked after you've ridden on normal roads for 1,000 km, or 600 km if the road conditions are complex. The blocks should be replaced promptly when they are two-thirds or more worn.

If you feel the brakes obviously loose but the wear degree of brake blocks is still acceptable, and there is no sign of oil leakage on the brakes, contact a professional bike store and ask technicians to replenish the lubricant.

Contact a professional bike store and ask technicians to diagnose and fix the cause of any abnormal noise during riding which persists after you have cleaned any oil from the brake blocks and discs.

#### **Professional store maintenance**

It is recommended to go to a professional bike store for maintenance 2-3 times a quarter, or after every 1,000 km of riding. The following items should be checked / performed during such maintenance:

- Performance of the hydraulic brakes.
- The fastening performance of screws, especially those between the discs and bottom brackets, in key parts.
- The wear degree of the front fork parts.
- The wear degree of the chain wheel, freewheel, and chain.
- The wear degree of the front hub bearings.
- The wear degree of the pedal pivots.
- Lubrication of internal pivots to ensure the smoothness of pivots in chain wheel, freewheel, front fork parts, front hub bearings, bottom bracket, pedals, and other parts.
- The wear degree of the tires.
- The fastening condition of the battery, controller, motor, odometer, and other electronic control parts.

### 04. FRAME CODE

The frame code, which is in the form of a QR code, can be found near the bottom bracket at the bottom of the frame down tube.

You can scan the QR code with your phone to see the 16-18-digit frame code. You can use the frame code to purchase insurance.

Please provide your frame code information when contacting us for consultation.

### IMPORTANT REMINDERS

O1. WARRANTY

02. FAQ

03. WARNINGS

### O1. WARRANTY

This product has passed the relevant certification of EN15194-2017 electrically powered assisted cycles regulations.

Starting from the date of delivery, the warranty period for all original components is stipulated in TENWAYS' warranty terms.

Claims within the warranty must be made directly to TENWAYS and a proof of purchase is required.

The warranty applies to original owners and is transferable to further owners.

The warranty does not cover the following circumstances:

- An incorrect assembly or installation of the product by the user.
- An improper or negligent use, operation or transformation of the product.
- A maintenance contrary to the maintenance instructions of the product (e.g., lack of maintenance of the brakes).
- Normal wear and tear.
- Defects inherent to the normal useful life or service life of the product.
- Damages or defects due to accidents.

### 02.faq

Q: What is the model of this e-bike? Which terrains is this e-bike targeted at?	A: This is the AGO X e-bike. It's an urban commuter intended for urban pavement or slightly potholed roads. Do not ride it on mountain roads. Otherwise, accidents may occur.
Q:	A:
What is the weight of the whole bike including the battery?	It's about 27 kg.
Q:	A:
What should I do if any parts are damaged or any abnormality	Please contact TENWAYS customer service immediately, or turn
occurs during use?	to bike-repair professionals for inspection and maintenance.
Q:	A:
How long would it take to fully charge the battery?	About 6 hours.
Q:	A:
What is the riding distance of one battery charge?	65 to 100 km.
Q:	A:
What are the tire pressure requirements?	Air pressure of the tires should be within the range of 40-65 PSI or 2.8-4.5
	bar.
Q:	A:
What is the overall noise level of this product while riding?	This product has passed the relevant certification of EN15194-2017, meaning the rider will not hear any sound higher than 70 dB from this e-bike during riding.

### 03. WARNINGS

- This bike is designed for urban riding. Do not use it for racing, mountain biking, or other non-urban usage scenarios. It is important to understandyour e-bike and its intended use, as personal safety incidents may occur when you use it in wrong usage scenarios.
- Inspection and maintenance are very important to the safety and service life of your e-bike. You should check the brakes, tires, handlebar, and rims regularly. Any unmaintained parts may break or perform poorly, possibly causing life-threatening accidents.
- If you choose to attach a spring-loaded child seat, please make sure it is installed and fitted correctly to avoid possible injury.
- Your bike must comply with legal regulations for riding on public roads in all conditions, including inclement weather, at night, early morning or dusk. It is your responsibility to familiarize yourself with and comply with all applicable laws in your country, including properly equipping you and your bikes as required by law.
- Improper fitting, installation, operation and maintenance of any accessories and parts may cause serious personal injuries or even death. Do not modify the frame or original components in any way. Modifications may cause damage to your e-bike and lead to life-threatening accidents. Mismatched accessories or incorrect installation can affect product performance and make riding unsafe.
- Like all mechanical parts, bikes are also subject to wear and stress. Different materials and components may react to wear or stress fatigue in different ways. Make sure you have spare parts ready for tires,

- brake blocks, and other wear-and-tear parts. If the design life of a component has been exceeded, it may suddenly fail, causing injuries to the rider. Any cracks, scratches or color changes indicate that the life of the component has been reached and it should be replaced.
- Extra caution should be exercised when you install any third-party accessories on your bike. Child seats and racks may increase the load and raise the overall center of gravity for the bike. If the bike gets out of control, you and the child passenger may be injured or even killed.
- Do not touch the brake discs while the front and rear wheels are still turning, or directly after you use the brakes. You may be injured or burned.
- If you have any questions related to the battery, contact TENWAYS' customer support team.
- A great deal of concentration is required when you're riding. Sudden braking or steering may result in an accident.
- Do not modify or tamper with the motor and built-in computer system of the bike. Modification or tampering of any kind will void your warranty and may cause a life-threatening accident.
- The brake settings vary by country/region. Check which brake lever acts on which brake first. If it does not comply with your habits, we recommend that you ask an expert to change the settings.

- Urban cycling can be dangerous. Riding without a helmet can result in serious injuries or even death.
- Do not use a headset or talk on the phone while riding.
- Do not ride when you don't have full control of the bike.
- Ride with extra caution on slippery surfaces or under humid weather.
   Ride slowly and brake lightly to allow for longer braking distances.
- Your riding speed should fit the road conditions, your capabilities, and local laws and regulations.
- Featuring better braking ability, our disc brakes may perform differently from other brake systems. Please familiarize yourself with their performance before you ride for the first time.
- Ensure that all lights function properly and are not blocked. We recommend the use of lights in all environments to ensure maximum visibility.
- Do not install a child seat in the AGO X. This may result in injury or death.
- Do not keep the motor running under high load for a long time.
- Do not charge the bike with any non-TENWAYS chargers.
- Do not place the bike in or near a strong magnetic field, or put any magnetic objects near the bottom bracket.
- The bike is designed to withstand a maximum weight of 120 kg; exceeding this weight may cause a life-threatening accident.
- Do not hang bags, umbrellas, and other overly large or heavy items on the handlebar.
- Do not wear overly long clothes while riding, as they may get entangled in the wheels or crankset.

- Do not attempt to open or touch the internal components of the e-bike, as this may cause permanent damage.
- Do not strike or damage the motor or its casing, or immerse the motor in water.
- Unless required for maintenance, do not attempt to remove the display.
- Do not use the components of other e-bike brands on TENWAYS e-bikes.
- This manual cannot cover the installation and maintenance methods for each e-bike part, and the technical details shown in texts and illustrations in the manual may also change. Please contact TENWAYS if you cannot find answers to your technical problems.



#### ATTENTION

- The battery pack MUST be locked onto the frame battery mount before use.
- Ensure the battery and charger are not damaged before charging.
- Don't connect the positive and negative terminal of the battery pack.
- Don't expose the battery to high temperatures.
- Ensure the battery charger is unplugged from the battery pack and put away before you ride.
- Always charge your battery in temperatures between 10 and 26 degrees Celsius.
- Do not subject the battery to salt water or leave the bike for extended periods in the rain.
- Only use original equipment for charging.





