

TANK

Owner's Manual



About Manual

This manual contains details of the product, information on its operation and maintenance, and other helpful tips for owners. Read it carefully and familiarize yourself with the E-Bikes before using it to ensure safe use, reduce risk of damage and premature wear, and prevent accidents. Be sure to retain this manual as your convenient E-Bikes information source.

This manual contains many Warnings and Cautions concerning safe operation, and consequences if proper setup, operation and maintenance guidelines are not followed. All information in this manual should be carefully reviewed.



The safety grade color of Caution is orange, and if not avoided, may result in moderate or serious injury.



Users should also pay special attention to information marked in this manual beginning with **NOTICE**



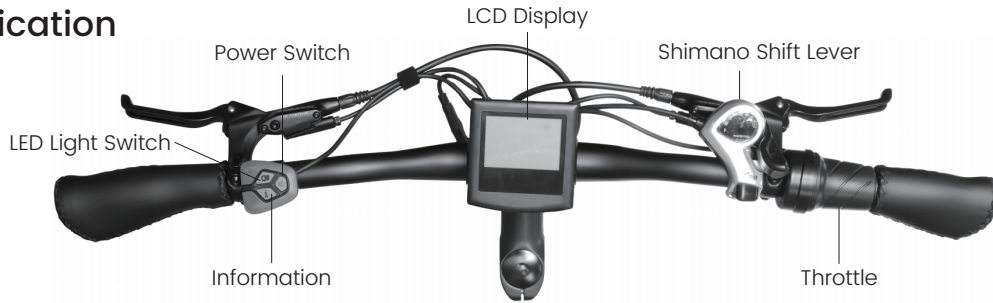
The safety grade color of Warning is red, and if not avoided will likely result in serious injury or death.

Because it is impossible to anticipate every situation or condition which can occur while riding, this manual makes no representations about the safe use of our bicycles under all conditions. There are risks associated with the use of any bicycle which cannot be predicted or avoided, and which are the sole responsibility of the rider. You should keep this manual, along with any other documents that were included with your bicycle, for future reference, however all content in this manual is subject to change or withdrawal without notice. Assembly and first adjustment of your E-Bikes requires special tools and skills, and it is recommended that this be performed by a trained bicycle mechanic if possible.

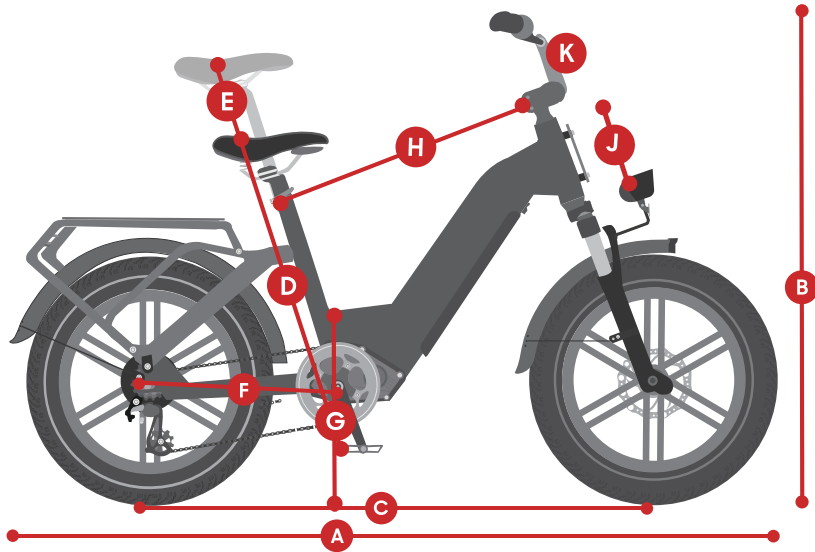
Contents

Bike Specification	3
Bike Assembly Guide	6
• Preparation Checklist	6
• Recommended Torque Values	7
• Assembly Instructions	8
• Safety Check	19
• Safety Precautions	20
E-Bike Use and Care	21
• Basic Display Settings	21
• Battery Charging	29
• Riding Modes	36
• Riding Limitations	37
• Parking & Transport	38
• Carrying Loads & Cargo	38
• Safety and Care Instructions	39
Maintenance	39
• Battery Maintenance	39
• Motor Maintenance	40
• Chain Maintenance	40
• Front Fork Maintenance	40

Bike Specification



*Larger rack available



A - Total Length	70 Inch
B - Handlebar Height	43 Inch
C - Wheelbase	46.4 Inch
D - Min Seat Height	27.6 Inch
E - Max Seat Height	35.4 Inch
F - Chain Stay Length	17.5 Inch
G - Standover Height	16.5 Inch
H - Top Tube Length	25.2 Inch
I - Wheel Diameter	23.2 Inch
J - Head Tube Length	8.3 Inch
K - Handlebar Length	27.6 Inch

Battery	48V 20Ah Samsung/LG lithium battery	Charger	US standard 3.0 A smart charger
Range	60-80 miles	Controller	48V/22A
Motor	750W brushless gear motor	Display	LCD display with USB charging
Total Payload Capacity	400 lbs	Weight	79 lbs
Recommended Rider Heights	5'3" ~ 6'4"	Pedal Assist Intelligent	0-5 level pedal assist
Tires	26" x 4" Kenda fat tires	Throttle	Half twist throttle
Brake lever	Aluminum alloy comfort grip levers with motor cutoff switch	Front Fork	Alloy front suspension fork with lockout and adjustment
Taillight	Integrated Taillight	Pedal	Alloy pedal with reflectors
Freewheel	Shimano 7-speed gear shift system	Bike Frame	6061 Aluminum frame
Brake	180mm Mechanical Disc Brakes	Headlight	48V LED light
Chain	KMC chain	Saddle	SR saddle
Stem	Promax MA-400 SSABK	Seatpost	30.9 x 300 mm Alloy Seatpost
Crankset	170mm forged alloy	Kickstand	Heavy-duty aluminum
Gearing	Shimano- 14-28T BROWN/BK	Spokes	One wheel

Bike Assembly Guide

◆ Preparation Checklist



Headlight



Brake disc guard



Power cable



Transformer



Front wheel hub axle



Pedals




Hex wrench

Extra tools needed: (1)10mm Wrench (2)15mm Wrench

NOTICE: Before assembling your bike, it's recommended to remove the battery for the reasons outlined below:

1. Determine if there's battery drain or damage during shipping.
2. Reduce the weight of the ebike to make it easier to maneuver the bike while assembling.
3. Avoid battery damage during the assembly process.

 Go to page [29](#) to learn about removing and charging the battery.

Recommended Torque Values

Hardware Location	Recommended Torque(NM)
Handlebar	12-18
Stem	12-18
Saddle	12-18
Front Wheel(For bikes with bolts on front wheel)	15-22
Rear wheel	30-38
Bottom Bracket Parts	30-50
Pedals	28-33
Disk Mounting Bolts	3-5
Disk Caliper Mount	6-8
Crank Bolts	32-36
Rear Derailleur Cable Pinch	3-5
Front Derailleur Clamp	3-6
Saddle Post Clamp	3-6

NOTICE: Using an impact driver to achieve the required torque is not recommended as it might cause damage. We suggest you use the wrench set we provided and extra tools to manually adjust nuts and bolts.

Assembly Instructions

◆ Handlebar Installation (4mm Hex Wrench)

Step 1: Loosen the bolts on your bike stem.

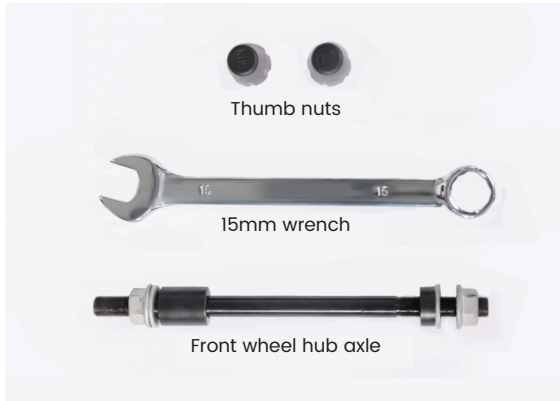
Step 2: Center your handlebars and rotate them to align to the marking pointed to in the below image.



Step 3: Tighten bolts to handlebar stem, but don't tighten completely as you may want to further adjust the angle later to align more precisely. After determining the best position, completely tighten all the bolts on the stem.



◆ Front wheel (15mm Wrench)



(Tools needed)

Step 1: Remove the plastic axle guards from the front wheel and the front fork protection bar by manually pulling it straight down, being careful to avoid contact with the brake rotor set.



Step 2: Insert the front wheel hub axle through the hub starting from the brake rotor side of the wheel. Pay attention to the position of the black spacer on each side.



Step 3: Roll the wheel in between the front fork, as shown in the image below. Align the fork dropouts with the axle of the wheel hub. Ensure the black spacer is close to the wheel hub and the washer is in contact with the nut. Verify also that the dropouts are fully seated on the axle and the brake rotor is properly inserted into the caliper.



Step 4: Use a 15mm wrench to tighten the bolts on both sides of the axle, and install the two thumb nuts by pressing them tightly.



Step 5: Inflate the tires and make sure they have sufficient pressure for riding comfort and safety, not exceeding the limit specified on the sidewall.

Step 6: After the front wheel installation, rotate the front wheel to make sure the bolts are fully tightened on the axle and check the wheel balance in Pedal Only Mode. If you notice the riding is imbalanced or the rotation of the front wheel makes noise, it means the bolts were not completely tightened or not aligned horizontally.



◆ Headlight & Front Fender (5mm Hex Wrench & 10mm Wrench)

The headlight and front fender are both secured by a single bolt, so the front fender must be installed together with the headlight. If you prefer not to have a front fender, you may install the headlight by itself.

Step 1: Loosen the bolt on the fork brace. Align the bolt holes of both your headlight and the front fender together with the hole on the fork brace, then reinsert the bolt through all holes and tighten the bolt with a 10mm wrench and a hex wrench.



Step 2: Connect the light wire connectors together. Pay careful attention to the arrows on the wire connectors, making sure the arrows align with each other to avoid damaging the interior circuitry.

Step 3: Loosen the bolts on the two brackets on either side of the front fork, as shown in the image. Then pull one end of the fender brace until the loop at the end is centered in the bracket, reinsert the bolt through the loop at the end of the brace, and tighten completely. Repeat on the other side.



◆ Pedals Installation

Make sure your pedals are installed on the correct side, as installing on the wrong side will damage the threads. Indicators for the right pedal (R) and the left pedal (L) can be found in two places: the stickers on the plastic cover, and the bottom of the pedal threads.



Before you install the pedals, apply a small amount of waterproof grease onto the spindle. Start threading the pedal on by hand to ensure the pedal is going in perfectly straight, rotating in the direction of the pointer shown on the crank. If it is not spinning smoothly, make doubly sure that you have the correct left or right pedal. After initial hand-tightening, finish tightening the pedals with a standard 15mm wrench.



◆ U Shape Disc Brake Guard Installation (4mm Hex Wrench)



Brake disc guard

Step 1: Remove the bolts on the chainstay.

Step 2: Put the bolts through the disc brake guard, then replace bolts as shown in the picture below.



◆ Taillight & Rear Rack Installation

Please go to our Youtube channel to learn about taillight and rear rack installation!

◆ Seat Adjustment

Adjust the Seat Height:

Open the seatpost quick release lever. Adjust the seatpost height by sliding the seatpost up or down to a height appropriate for your leg length and preferred riding position. Do not extend the seatpost beyond the minimum insertion marking etched onto the seatpost.



WARNING: Overextending the seatpost can cause it to break or come off your bike, putting you at very high risk of serious injury or death. Avoid this danger by inserting your seatpost into the seat tube far enough that the minimum insertion point is no longer visible.



Adjust the Seat Angle:

Step 1: Loosen the seat adjustment bolt beneath the seat. Move the seat backward or forward and tilt to adjust the angle within the limit markings etched on the seat rail. Do not exceed the limit markings, to ensure the safety of yourself and the bike.

Step 2: Tighten the seat adjustment bolt. Ensure the top and bottom of the seat rail clamp are aligned, so that the seat adjustment bolt will clamp the seat rails together properly.



◆ After Bike Assembly

Please write down the serial numbers found on the head tube, battery and motor on the inside front cover of this manual to facilitate failure reporting. Make sure each letter and number is correct.



Make sure you take down the Capital Letters here!

Bike frame number



Battery serial number



Make sure you take down the "hyphen" here!

Motor serial number

Safety Checklist

Safety Check	Basic Steps
Brakes	<ul style="list-style-type: none"> o Test front and rear brakes for proper function. o Ensure brake pads are not worn and are correctly positioned in relation to rims. o Make sure brake control cables are lubricated, correctly adjusted and display no obvious wear. o Check that brake control levers are lubricated and tightly secured to handlebars.
Wheels and Tires	<ul style="list-style-type: none"> o Inflate tires to within recommended limits displayed on sidewalls. o Check for bulges or signs of excessive wear. o Clean tires to ensure tread is exposed. o Ensure rims run true and have no obvious wobbles or kinks. o Check that all wheel spokes are tight and not broken. o Check the wheel balance in Pedal Only Mode. If you notice the riding is imbalanced or the rotation of the front wheel makes noise, it means the bolts were not completely tightened or not aligned horizontally.
Chain	<ul style="list-style-type: none"> o Check that chain is oiled, clean and runs smoothly. o Use extra care in wet or dusty conditions.
Crank and Pedals	<ul style="list-style-type: none"> o Securely tighten pedals to cranks. o Ensure cranks are securely tightened and are not bent.
Derailleurs	<ul style="list-style-type: none"> o Check that derailleur(s) are adjusted and functioning properly. o Ensure shift and brake levers are attached to handlebar securely. o Check all brake and shift cables for proper lubrication.
Motor Drive Assembly and Throttle	<ul style="list-style-type: none"> o Ensure hub motor is spinning smoothly and motor bearings are in good working order. o Check that all power cables running to hub motor are secured and undamaged. o Make sure hub motor axle bolts are secured and all torque arms and torque washers are in place.
Battery Pack	<ul style="list-style-type: none"> o Ensure battery is charged before use. o Check for any visible damage to battery pack. o Lock battery securely to frame.

Safety Precautions

The following safety notes provide additional information on the safe operation of your E-bike and should be closely reviewed. Improper operation, or failure to confirm correct installation, compatibility, and maintenance of any component or accessory may result in serious injury or death.

◆ Before Riding

- All users must read and understand this manual before first use. Additional manuals for components used on your bicycle may be provided and should also be read before use.
- Ensure you understand all instructions and safety notes/warnings.
- Follow the safety checklist on page 19 before first use and at regular intervals to ensure correct tightening and setup on your bicycle.
- Ensure the bike fits you properly before first use. Check local rules and regulations before riding.
- It is your responsibility to familiarize yourself with the laws and requirements of operation of this product in the area(s) where you ride.

◆ While Riding

- Always wear an approved bicycle helmet whenever using this product and ensure that all helmet manufacturer instructions are used for fit and care of your helmet. Failure to wear a helmet when riding may result in serious injury or death.
- Acceleration can be unexpectedly strong in pedal assist mode (Pedal Assist level 1-5), as when you pedal the motor assist will suddenly engage. Therefore, please pay careful attention when riding. We suggest you use Pedal Only Mode (Pedal Assist level 0) when you need to ride at a slow speed to cross roads, at intersections, or when pedestrian traffic is present, in order to avoid accidents caused by sudden acceleration.
- Make sure you securely close the quick-release lever of the front wheel, checking the wheel balance in Pedal Only Mode. If you notice the riding feels imbalanced, or the rotation of the front wheel makes noise, it likely means the bolts were not completely tightened or didn't align horizontally in the center.
- Off-road riding requires close attention and specific skills, and presents variable conditions and hazards which accompany the conditions.
- Wear appropriate safety gear and do not ride alone in remote areas.

E-Bike Use and Care

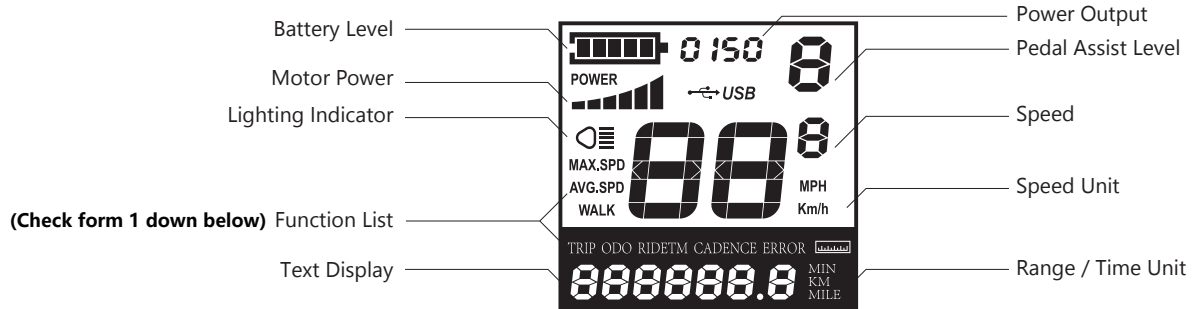
The following table of contents provides general guidance on e-bike variable power assist settings and their effects on both range and performance. This content will apply broadly to most riders, but multiple factors will affect individual results including rider fitness, terrain, proper maintenance, etc. While We hopes and believes you will thoroughly enjoy your e-bike, no guarantees of universal performance characteristics for all owners can be given.

Basic Display Settings

◆ Control Panel



◆ Display Screen

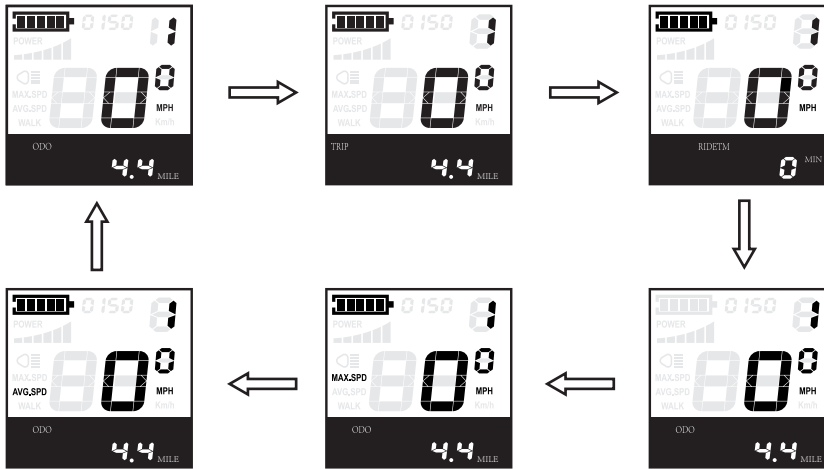


TRIP	Single mileage (km)	ERROR 21	Abnormal Current
ODO	Total mileage (km)	ERROR 22	Throttle Fault
RIDETM	Trip time indication	ERROR 23	Motor Phase Problem
ERROR	Error code indication	ERROR 24	Motor Hall Defect
MAX.SPD	Maximum speed (km/h)	ERROR 25	Brake Failed or Brake Applied While Turning ON
AVG.SPD	Average speed	ERROR 30	Abnormal Communication
WALK	Walk Mode		

Form 1

◆ Start-up Procedure

1. Press and hold the power button "⏻" on the control panel for two seconds until the display comes on.
2. Press the information button "i" on the control panel to cycle through the display settings: odometer, trip meter, max speed, and average speed.



3. Press the light button "☾" to turn both the headlight and taillight on/off. When powered on, the light icon will display on-screen.
4. Press "+" or "-" to increase the Pedal Assist level up or down respectively. [See page [36](#) to learn about 3 different modes]
5. Monitor the power consumption meter, higher levels mean faster battery drain.

NOTICE: If the motor power ever becomes too strong for riders' preference or sense of safety, simply apply the handbrake to cut off motor power completely. If the throttle assist seems accidentally engaged too easily, causing unwanted acceleration, simply apply the handbrake or lower the Pedal Assist level to 0 to disengage the throttle.

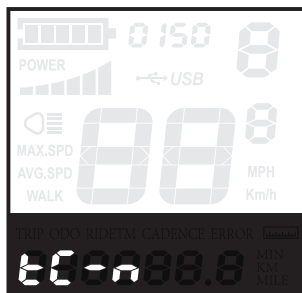
◆ Reset Trip Meter

Hold both the "+" and "-" keys together for two seconds.

Display will show a flashing "tC-n" (no), press "+" key to change it to "tC-y" (yes).

Confirm by holding "i" for two seconds. Display will then show odometer (total miles).

Press "i" to switch to trip meter, which will now read zero.



◆ Pedal – Assist Adjustment

The e-bike ships with standard Pedal Assist settings ranging from 0 (no assist) to 5 (maximum assist).

To adjust, hold both “+” and “-” together for two seconds, bringing you to the trip meter reset screen described above.

Then, hold both “+” and “-” together again for two seconds, bringing you to the Passcode screen (“P”). Here you can enter a 4-digit passcode, which is 0510.

- Press “+” and “-” to adjust numbers up/down.
- Press “i” to confirm.

To change the level range of power assist, press “+” key to arrive at Pedal Assist adjustment screen (“SC”), then press “i” to enter.

You may now select preferred range with the “+” and “-” keys: 0-5, 1-5, 0-7, 1-7, 0-9, 1-9

To optionally change the percentage of power assist for each level of range, press “i” once again. The percentage will flash next to the level.

- Press “+” and “-” to adjust percentage up/down.
- Press “i” to confirm.

◆ Walk Mode:

To receive mild power assist when walking the bike long distances, or up minor hills, press and hold “-” key to slowly power the bike forward at walking speed.

The e-bike ships with the throttle set to accelerate the e-bike to a maximum speed of 25 mph. This can be adjusted higher, BUT please be mindful of local laws and regulations regarding maximum throttle speeds permitted. The brand is not liable for any consequences of rider misuse of maximum throttle speed adjustments.

To adjust maximum throttle speed, hold "**+**" and "**-**" keys for two seconds, first bringing you to the trip meter reset screen described above. Then, hold "**-**" and "**i**" keys together for two seconds, bringing you to the passcode screen ("**P**"). Here you can enter the 4-digit passcode, which again is 0510.

- Press "**+**" and "**-**" to adjust numbers up/down.
- Press "**i**" to confirm.

You will then arrive at the Wheel Size ("**Ld**") screen, showing the diameter of your wheels.

Press "**i**" again to arrive at Speed Limiter ("**LS**") screen, displaying kilometers per hour (**kph**).

- Press "**+**" and "**-**" to adjust maximum throttle speed up/down.
- Press "**i**" to confirm and return to Wheel Size screen.

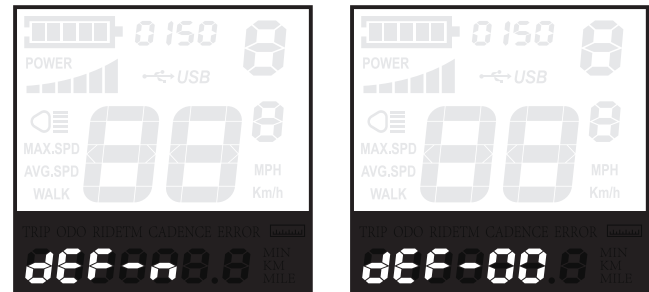
Hold "**i**" down for two seconds to return to main screen.

◆ Reset to Factory Defaults

To restore bike settings back to original default levels, hold "**-**" and "**i**" keys for two seconds.

Display will show "**dEF-n**" (no), press "**+**" key to change it to "**dEF-y**" (yes).

Hold "**i**" key for two seconds to reset all settings, display will then show "**dEF-00**" and settings are now reverted to default levels.



Recover Default Settings Interface

◆ Security Passcode

To prevent theft or unauthorized use of your e-bike, you may set a security passcode to prevent use of the motor/electronics (though still permitting manual pedalling).

1. Hold "+" and "-" together for two seconds, first bringing you to the trip meter reset screen described above.
2. Then, hold "-" and "i" keys together for two seconds, bringing you to the passcode screen ("P"). Here you can enter the 4-digit passcode, which again is 0510.
 - Press "+" and "-" to adjust numbers up/down.
 - Press "i" to confirm.
3. Press "+" several times to arrive at display #8 (number shown at top right). Display will then show the passcode Input screen ("PS").
4. Press "i" to arrive at the Second passcode screen ("P2"), and enter the 4-digit second passcode of **1212**.
 - Press "+" and "-" to adjust numbers up/down.
 - Press "i" to confirm.



NOTICE: It is not recommended to change the default power-on passcodes of the display (1212) or change the passcodes of the system (0510). We suggest you take down the passcodes on the inside front cover of this manual.

Display will then show " **PSd-n** " (no), press " **+** " to change it to " **PSd-y** " (yes) to turn the security passcode on. Press " **i** " to confirm.

Then, choose a 4-digit passcode of your preference.

- Press " **+** " and " **-** " to adjust numbers up/down.
- Press " **i** " to confirm.

Hold " **i** " for two seconds to return to the " **PSd-y** " screen.

Hold " **i** " again for two seconds to return to the "PS" screen.

Hold " **i** " one last time to return to the main screen.



Now, when powering the e-bike on, the bike will prompt you for the passcode you set above.

- Press " **+** " and " **-** " to adjust numbers up/down.
- Press " **i** " to confirm.

If the passcode was entered correctly, the e-bike will power on and display the main screen.

NOTICE: if the e-bike is reset to factory defaults as described above, the security passcode will be lost and will need to be reentered.

Battery Charging

◆ Charging Procedure for On-bike Charging

Step 1: Check the battery power indicator on your display.

Step 2: Assemble the charger as shown in Figure 1 by inserting the plug (Plug 1) into the transformer.

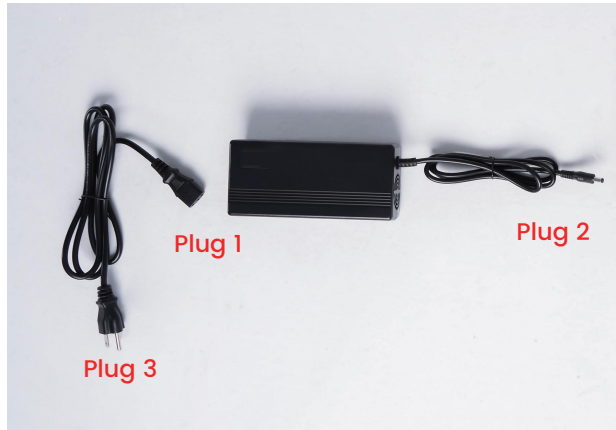


Figure 1



Figure 2

Step 3: Remove the rubber cover on the charging socket and insert the DC plug (Plug 2) of the charger into the battery charging socket (fig. 2).

Step 4: Connect the power plug (110/220 volt plug) to the power socket.

NOTICE: This order helps extend the battery life and effectively reduces battery damage caused by improper charging.

◆ Charging Procedure for Off-bike Charging

Step 1: Find the keys located on the handlebar (fig. 3) and remove them. If you cut them from the handlebars, be careful not to damage any of the wires.



Figure 3



Figure 4

NOTICE: Please keep your key and its spare in a safe place. Once lost, they are difficult to copy. The key number correlates to the number on the keyhole (fig. 4).

Step 2: Use the key to unlock the battery (fig. 5). While holding the battery with one hand, detach the battery by turning the release switch located on the underside of the frame (fig. 6).



Figure 5



Figure 6

Step 3: Check the battery status (fig. 8):

Light Status	Charging Status
Red (on charger)	Charging
Green (on charger)	Fully charged
Yellow (on battery)	40%-60% power
Red (on battery)	40% < power



Figure 7



Figure 8

NOTICE: Please write down the serial number found on the battery beneath the barcode (fig. 7) on the inside front cover of this manual to facilitate failure reporting. Products that have the serial number and/or barcode removed, defaced, damaged, altered, or made illegible will not be covered by the warranty.

Step 4: Safest way to charge your battery-

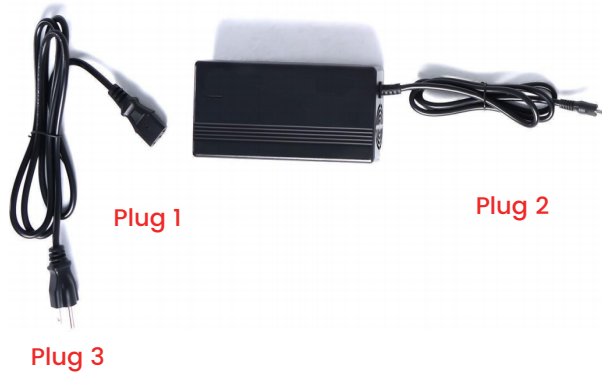
First, assemble the charger as shown in Figure 1 inserting the plug (Plug 1) into the transformer.

Then insert the DC plug (Plug 2) into the battery charging socket.

Last, insert the power plug (Plug 3: 110/220 volt plug) to the power socket. This order helps extend the battery life and effectively reduces battery damage caused by improper charging.

The charger works on 110/220 V 56/60 Hz standard home AC power outlets. Do not open the charger to select voltage input as the charger can automatically detect and account for incoming voltage.

Project	Unit	Minimum	Max
Battery Input Voltage	V	28	55
Standby current	mA		0.1



◆ After Charging

1. Please unplug the main power supply first by removing the plug from the power socket, then remove the DC port from the battery. You can then check the battery status on the display screen
2. Hold the battery with one hand and turn the release switch with the other hand to install the battery. Lock the battery when finished to prevent theft.

NOTICE: If your battery displays abnormal charging behavior, such as:

- Longer-than-expected charge time
- Strange smell, smoke, or liquid emanating from battery and/or charger
- Overheating battery and/or charger

Please stop charging and contact Bike seller immediately.

◆ Charging Tips

- The battery can be recharged on or off the bike.
- A new battery may take longer to be fully charged when depleted.
- The charger will automatically stop charging once the battery pack is fully charged.
- You can recharge the battery after short rides as it does not have a memory effect.

◆ Precautions

- While charging, please keep your battery away from direct sunlight, liquid, dirt or debris, and metal objects. Do not allow the battery to be charged in environments under 14° fahrenheit (-10° Celsius) and over 104° fahrenheit (40° Celsius).
- Do not cover the charger when charging.
- Keep the battery away from children while charging.
- Make sure to only use an approved E-Bike charger purchased directly from E-Bike business for your specific bike serial number.

◆ Before Riding

Ensure that the battery has been properly secured to the bike before each use by grasping the battery pack and pulling upwards, testing the security of the pack.

◆ Battery Maintenance (48V 20AH Samsung/LG Lithium-ion battery)

- Do not fully drain your battery. Turn off the power when the battery charge is low.
- Fully charge the battery after each use, no matter how much power is used. This will prolong the battery life. If battery power is not used for a long time, store the battery with a full charge and charge it once a month.
- The Bike can be safely ridden in light rain. However, riding through very heavy downpours or through flooded streets is not recommended, as the crank and/or motor can get wet, which may cause damage.
- Keep the battery away from open flame and other high-temperature heat sources. Do not expose the battery to direct sunlight or recharge immediately after use in high-temperature weather.

NOTICE: It is not recommended to make any modifications to the battery or the motor. If the battery is tampered with, and there are any problems with the altered battery or motor, it will not be covered under warranty.

◆ Charger Care information

Please refer to the instruction manual in the charger box.

Riding Modes

◆ PEDAL-ASSIST

Pedal-Assist is an operating mode on e-bikes designed to engage the motor to assist, but not replace, your own pedaling effort. When you are operating your bike in the pedal assist mode, you can adjust the setting according to your preference. The ebikes has five pedal assist settings - ranging from 1 to 5.

- Higher pedal settings (L4/5) would be most helpful for those who want to ride faster with minimum effort. These settings are perfect for people who want to arrive fresh and timely at work, without being sweaty and exhausted.
- Lower pedal settings (L1/2) are popular for riders to use after work, or when leisurely exercise is preferred. These are best to use on the way home from work, to refresh yourself and relieve stress accumulated throughout the entire workday. Moreover, lower settings can extend usable range for longer rides, maximizing enjoyment while minimizing physical stress and fatigue.

◆ THROTTLE-ONLY

The throttle mode is similar to how a motorcycle or scooter operates, alleviating the need to pedal or providing an additional boost simply by twisting the throttle.

Tank can reach speeds of up to 25 miles per hour with throttle mode, which not only allows you to travel faster, but also reassures riders with extra power whenever needed, depending on traffic conditions and rider energy levels. If you are an adventurer who chases after speed and distance without compromising comfort or safety, the throttle-assisted would be your perfect companion.

◆ PEDAL-ONLY

In this mode, the E-bikes will perform like a normal bike, as you'll be riding without any assistance from the motor. This mode is especially useful if you run out of battery, or are looking for more intensive resistance training.

We suggest that you select a lower assistance level when you first ride your Bike. After becoming more comfortable with the riding characteristics of our e-bike, and more familiar with the varying range requirements of your most common destinations and commuting routes, you can then make any needed adjustments to pedal assist settings, as well as throttle use frequency, riding position, etc.

Riding Limitations

Following are some limitations needing riders' careful attention to ensure the hub motor does not overheat or become damaged from excessive loading:

- Do not attempt to ride up hills steeper than 15% grade.
- Use the pedals to assist the motor when climbing hills and accelerating from a stop.
- Avoid sudden starts and stops.
- Generally accelerate at a moderate pace, rather than aggressively.

Parking & Transport

Follow these basic parking, storage, and transport tips to ensure your bike is well cared for, both on and off the road:

- When walking with the bike, turn off the power to avoid accidental acceleration, or use Walk Mode (page **25**).
- Though our bikes are water resistant (IPX4 Water Resistance), please do not park your bike outdoors in cold or inclement weather for extended periods.
- When parking, switch the power and any lights off to conserve battery, remove the key from the bike, and ensure the battery is secured and locked to the frame.
- In public places, help keep your Bike safe and secure from theft by always locking it up.
- Make sure to not park, store or transport your Bike on a rack that is not designed for the size and weight of the bike. When storing or carrying your bike on a rack for transport, remove the battery to reduce the weight and make lifting or loading easier.

Carrying Loads & Cargo

Total Payload Capacity of Tank: 400 lbs Weight: 79 lbs

◆ Cargo Safe Operation Tips:

The following list provides important tips for the safe operation of the Tank when used for carrying cargo:

1. Make sure to load the cargo as low as possible to lower the center of gravity and improve stability.
2. Ensure your loads are properly secured and periodically check that nothing has loosened.
3. Plan your route accordingly when cargo is loaded on the Tank, considering hill climbing ability, steering, and braking. Also account for moderately reduced range when carrying extra cargo weight (or an additional passenger).
4. Try to get a feel for the cargo load in a flat and open private area before riding on public roads.
5. Make sure to not use the front brake by itself, with or without cargo. Always apply the rear brake first followed by the front brake. Failure of the front fork or loss of control is possible when the front brake is operated independently, especially at higher speeds.
6. The kickstand is not designed to hold the bike upright with cargo by itself, always manually hold the bike upright when loading or carrying cargo.

Safety and Care Instructions

To ensure safe riding conditions and maximize e-bike longevity, you must follow the guidelines outlined below:

- To clean the e-bike, wipe the frame with a damp cloth soaked in a mild, non-abrasive, non-corrosive detergent mixture. Wipe or spray all unpainted parts with anti-rust treatment after being used in coastal areas or areas with salty air or water.
- Never immerse the bike or any components in water, as the electrical system may be damaged. If the hub and bottom bracket bearings have been submerged in water, they should be removed and re-greased (this will prevent accelerated bearing deterioration).
- Periodically check wiring and connectors to ensure there is no damage, and the connections are secure.
- Store under shelter, avoiding extended exposure to cold or inclement weather. If exposed to rain or excess moisture, dry your bicycle afterward and apply anti-rust treatment to the chain and any other unpainted steel surfaces.
- Regularly clean and lubricate all moving parts, tighten components and adjust as required.
- Your cables, spokes, and chain will stretch after an initial break in period of 80-160 km, and additionally bolted connections can loosen with time and usage. Therefore, we suggest you contact a certified bicycle mechanic every two months to ensure your bike is safe and problem-free for years of use.
- If the paint has become scratched, or the metal chipped, use touch-up paint to prevent rust (clear nail polish can also be used as a preventative measure).
- Damage from corrosion is not covered under warranty, therefore special care should be given to protect and extend the life of your bike.

Maintenance

◆ Battery Maintenance (48V 20AH Samsung/LG Lithium-ion battery)

1. Don't fully drain your battery. Turn off the power when the battery charge is low.
2. Fully charge the battery after each use, no matter how much power is used. This will prolong the battery life. If the battery is not used for a long time, store the battery with a full charge and charge it once a month.
3. The Bike can be safely ridden in light rain. However, riding through very heavy downpours or through flooded streets is not recommended, as the crank and/or motor can get wet, which may cause problems.
4. Keep the battery away from open flame or a high-temperature heat source. Do not expose the battery to direct sunlight or recharge immediately after use in high-temperature weather.

◆ Motor Maintenance (750W brushless gear hub motor with 86Nm of torque)

1. Please check your motor frequently and tighten any loose screws or nuts, to prevent the vehicle from breaking down due to disconnected wires.
2. The brushless motors are not waterproof, so avoid riding through water deeper than the lower edge of the electric wheel hub to avoid motor failure.

◆ Chain Maintenance

1. We recommend cleaning the chain after each ride, especially in rainy and humid environments. Use a dry cloth to wipe the chain and its accessories clean. Use a brush to remove sand and dirt stuck in the chain, along with use warm soapy water if needed. Do not use strong acidic or alkaline cleaning agents (such as rust remover), because these chemicals can damage the chain.
2. Apply lubricating oil after cleaning to avoid rust. First, make sure the chain is dry, and then apply the lubricating oil into the bearings.
3. To prevent unnecessary chain wear, try to maintain a vertical chain position when shifting gears (do not use the smallest gear with the smallest flywheel, or the largest gear with the largest flywheel, etc.).

◆ Front Fork Maintenance

1. Always use a clean, oil-free lint-free cloth with plain or soapy water to clean your bike. To prevent water from flowing into the front fork, you can turn the bike upside down. Dry with a lint-free towel after washing. Pay specific attention to the inner tube and the dust seal to reduce wear and prevent thinning of the inner tube, which can lead to significant damage if the aluminum is exposed to air.
2. We recommend using a front fork dust cover to protect the inner tube of your front fork. This prevents dust from entering as well as hard objects from hitting the inner tube.

