

ELECTRIC BICYCLE USER MANUAL



Read Carefully Before Use
Keep for Future Reference

SAFETY INFORMATION

Warning!

- Install and adjust this bicycle **ONLY** in accordance with these instructions. Read them completely prior to installation and use. Contact customer service if any point is unclear. Provide this manual to anyone who will use this bicycle and provide it with this bicycle if it is ever given or sold to a third party. Failure to do so may lead to serious property damage and severe personal injury, possibly including death.
- **ALWAYS** obey all applicable local and national laws and regulations while riding. Do not ride this bicycle in any area or at any speed prohibited to electric bicycles. Always wear your helmet and other required protective gear. Always maintain your reflectors and other required safety equipment. Note that any illegal delimiting voids all warranties stated or implied.
- **ALWAYS** check whether the brakes function well **BEFORE** riding. Even when power is cut to the motor, the inertia of the bike will often require active braking power.
- **ALWAYS** ensure all fasteners and components are intact and securely tightened before and after every use.
- **DO NOT** ride this bicycle if any part is damaged or shows any sign of malfunction. Repair or replace worn and broken components before further use. Never replace any parts with non-identical ones.
- **DO NOT** allow children or persons unfamiliar with this bicycle or these instructions to operate it. Do not ride it while you are tired or under the influence of medication.
- **DO NOT** wear loose footwear or clothing that may become caught in the wheels or any other moving parts.
- Pay attention to your remaining power before setting out and during use. Recharge your battery as needed to ensure it never runs out of power at a moment where you are taken by surprise.
- It is recommended that you not ride your bike fast when getting started. This can be ensured by setting the bike's maximum speed limit low until you are fully familiar with your new electric bike and its controls.
- **ALWAYS** be alert for people, animals, or any obstacles that may appear in front of you while riding your bicycle. Be aware that pedestrians and drivers may not expect the speed or responsiveness of your bike. Adjust your behavior accordingly. It is advisable to install warning devices to draw their attention, but always be ready to turn safely out of their way if needed. Do not focus on the LCD display panel for extended periods of time while riding.
- **NEVER** ride at a speed where your stopping distance exceeds your visibility. We do not recommend that you ride your bicycle at night or in an environment with poor visibility. If you have an emergency that makes it necessary to do so, keep your light on and limit your speed appropriately.
- **NEVER** use the throttle or pedal assist system in any situation, road condition, or terrain where doing so might impair your control of your bicycle.
- **NEVER** adjust the 03, 06, 07, 13, 14, or 15 parameters in the display menus. Adjustment of these parameters should only be made when using your display panel with other motorized wheels of differing voltage, diameter, or magnetic arrangement. In any other case, any adjustment of these parameters should be undone **IMMEDIATELY**. Restore the original settings before any further use of the bicycle.
- **DO NOT** get the batteries, the charger, or its power cord wet or operate them with wet hands or in highly humid environments. If they accidentally become damp or wet, wait for them to completely dry before any further use. If the interior of any battery becomes wet, replace it.
- Disconnect the 36V battery from this bicycle before any cleaning, servicing, and storage.
- **NEVER** place any battery near heat sources or explosive or flammable gases. Never expose them to radiation or excessive pressure. Only charge the 36V battery in locations with an ambient temperature between 32° and 110°F (0–45°C).
- **NEVER** modify any battery or power cord. Only use the provided charger with this bicycle.
- If any battery is ever damaged, avoid all contact with it or any leaking fluid. Remove contaminated clothing and flush with copious amounts of water if contact accidentally occurs with the skin. If contact accidentally occurs with the eyes, **IMMEDIATELY** flush them with copious amounts of water for at least 15 minutes while seeking medical attention.

SPECIFICATIONS

Motor Power		500W	
Wheel	Diameter	26 in. ("06"=26)	66 cm
	Width	4 in.	10 cm
Magnet Arrangement	Speed Sensor	1 Alnico Magnet ("07"=1)	
	Pedal Assist	5 Alnico Magnets ("13"=5)	
Battery	Type	36V Rechargeable Lithium ("03"=36)	
	Waterproof Rating	IPX4	
Control Hardware	Current Limit	12A ("14"=12)	
	Undervoltage Lockout Threshold	29V ("15"=29)	
Max. Speed		20 mph*	32 km/h*
Est. Operational Range		20 mi.*	32 km*
Operational Temp. Range		-4 to 145°F	-20 to 65°C
Charging Temp. Range		32 to 110°F	0 to 45°C

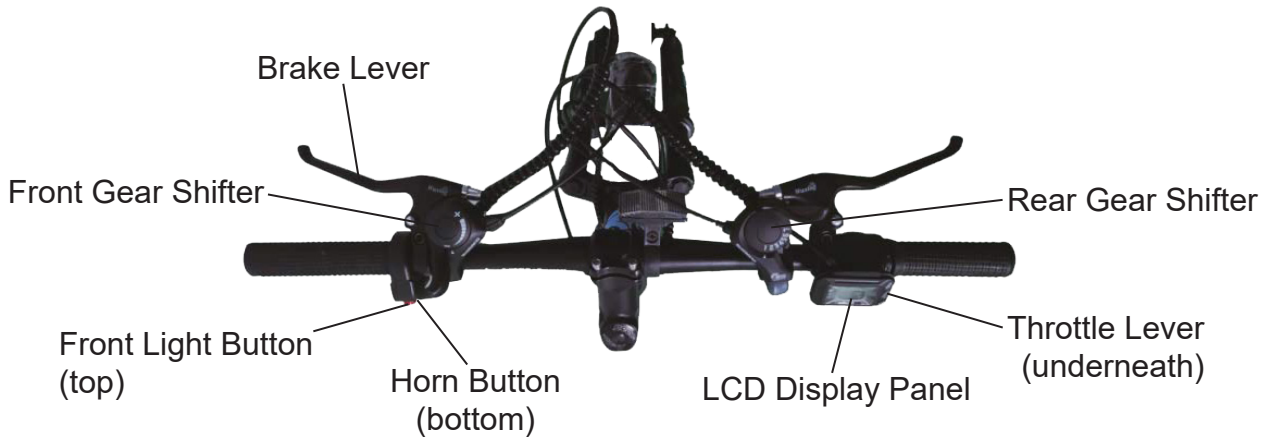
* Based on unloaded wheel rotation at full power without friction with software limitations. True speed will vary according to variables such as battery strength and load but should remain within ± 1 mph of the displayed speed.

* Based on a 165 lb. or 75 kg load at full power and at full legal speed on actual roads.

PRODUCT DIAGRAM



Handlebars



LCD Display Panel



Buttons

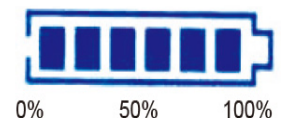
- ▲: Increases the motor speed level or toggles values up when pressed.
- ⏻: Toggles the variable display when pressed. Turns the display panel on and off when held.
- ▼: Decreases the motor speed level, turns off the motor, or toggles values down when pressed.

Display

The top left corner displays when backend settings are being adjusted (SET), when the front light is on (💡), or when various errors occur: motor errors (⚙️), brake errors (⚠️), throttle errors (🛞), and control hardware errors (🔧). Icons are also displayed when the backend settings have been adjusted to use a pedal start for throttle control (👣) or to change the wheel diameter size (🛞).

The battery display shows your remaining battery power level.

The number on the top right is the current speed in mph or km/h.



The number on the bottom left is the current throttle or pedal assist level.

The number on the bottom right is a variable display that may show your battery's voltage (VOL), your current trip distance (DIS), your total distance traveled (ODO), the current motor speed (RPM), or the various parameter menus and settings.

PACKAGE LIST

When you first get your new electric bike, carefully unpack all of the following components. Check that nothing is missing or has been damaged in transit. Keep children away from the packaging or provide constant supervision. Storing your original packaging through the warranty period will speed returns if any are needed.

No.	Name	Qty.
A	Main Frame with Motorized Rear Wheel, Control Hardware, & Chain	1
B	Handlebars with LCD Display Panel, Throttle, & Gear Shifters	1
C	Front Wheel with Brake Disc	1
D	Front Brake Caliper	1
E	Quick Release Lever Axle	1
F	Seat	1
G	Rear Light with 2 AAA Batteries	1
H	Front Light	1
I	Front Fender	1
J	Rear Fender	1
K	Pedals	2
L	36V Battery	1
M	Charger	1
N	Power Cord	1
O	Keys	2
P	4 mm Hex Wrench	1
Q	5 mm Hex Wrench	1
R	8×10 mm Wrench	1
S	13×15 mm Wrench	1
T	Phillips Screwdriver	1

Not Included but Recommended

1 × Bike Stand

ASSEMBLY



Front Wheel Installation

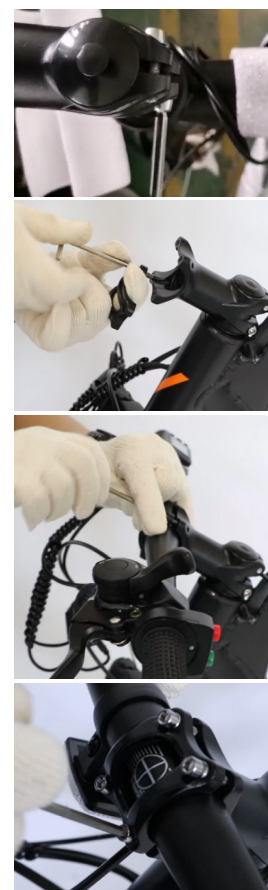
1. Remove the protective cover and bar from the front fork with the 13×15 mm wrench (S).
2. Remove the locking nut and spring from the front axle (E).
3. Pass the axle through the hub of the front wheel (C).
4. Replace the spring, being sure its smaller side faces towards the disc brake.
5. Replace the locking nut, tightening it partially by hand.
6. Fit the front wheel into the bike's front fork, positioning the ends of the fork to hold both sides of the axle.
7. Rotate the axle's lever until the right side of the hub becomes secure.
8. Close the lever and tighten the locking nut completely using the 13×15 mm wrench.
9. Test that the wheel is held securely but spins freely.

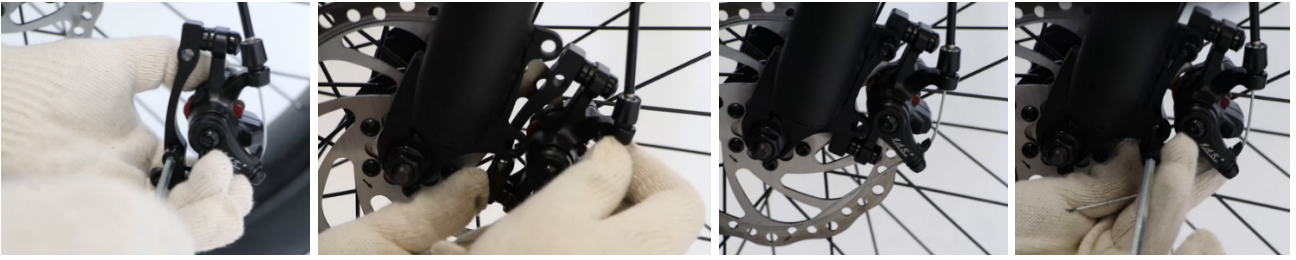


Wearing protective gloves during assembly is recommended.

Handlebar Installation

1. For best results, secure your bicycle with a bike stand or similar device (not included).
2. Move the front wheel so that it is aligned with the top tube of the main frame (A).
3. While firmly holding the front wheel in place, rotate the handlebars until they are completely perpendicular to the top tube and front wheel.
4. Completely tighten the bolts shown with the 5 mm hex wrench (Q).
5. Remove the bolts from the connecting plate on the main frame's head tube using the 4 mm hex wrench (P) and remove the connecting plate.
6. Fit the handlebars (B) onto the head tube as shown.
7. Replace the connecting plate and partially retighten its bolts.
8. Adjust the handlebars and the control panel as needed.
9. Completely tighten the connecting plate bolts to lock everything in place.
10. Test the handlebars' connection and movement.





Front Caliper Installation

1. Remove the two bolts from the front brake caliper (D) using the 5 mm hex wrench.
2. Fit the caliper onto its holder on the left side of the front fork as shown.
3. Replace the bolts, tightening them with the hex wrench.
4. Test that the brake levers and brakes work smoothly and firmly before continuing.



Pedal Installation

1. Identify the separate pedals (K). The two pedals **ARE** different and should **NOT** be mixed up. The left pedal is marked with an **L** and the right with an **R**.
2. Attach each pedal to the appropriate crank arm, screwing each into place.
3. Tighten the pedals' locking nuts with the 13×15 mm wrench.
4. Test that the pedals are securely fastened and rotate freely.



Seat and Rear Fender Installation

1. Confirm that the rear light (G) has its two AAA batteries installed. Test their power by turning it on.
2. Attach the rear light to its clamp, slide it into position on the post of the seat (F), and tighten it with the Phillips screwdriver (T).
3. Attach the rear fender (J) to the seat post, slide it into position, and tighten it with the screwdriver.
4. Release the locking lever on the seat tube.
5. Insert the seat post into the seat tube, adjusting it and its attachments to your preferred height.
6. Close the lever to lock the seat in place.



Front Light and Fender Intallation

1. Remove the locking nut, bolt, and washer from the front fender support above the front wheel.
2. Fit the front light (H) and front fender (I) onto the support as shown.
3. Replace the washer, bolt, and nut, tightening them with the 5 mm hex wrench and the 8×10 mm wrench (R) simultaneously.

Battery Installation

1. The 36V battery (L) is fully charged before it leaves the factory but may have run down during shipping. Press its power display button to check the current charge. If less than 3 lights come on, use the charger (M) and power cord (N) to recharge it.
2. Fit the battery onto its mount on the down tube, sliding it down until it clicks into place.
3. Take the keys (O) from the handlebars and use one to lock the battery in place.
4. Flip the power switch on the right side of the battery and confirm that the battery, wiring, and control panel are all working correctly.



OPERATION

Manual Control

You can leave the display panel or battery turned off to ride your bike normally with 21-speed gearing. You can also ride normally with the electronic display turned on by pressing ▼ until the motor is put into neutral ("0").

The Shimano SL-TX30-7R thumb shifters use levers and buttons to control the 3 front rings on the left in combination with the 7 rear cogs on the right. On the left side, the larger bars closer to + represent the largest ring and the smaller bars closer to – the smallest ring. Push the friction shift lever away with your thumb to downshift sharply and pull it towards you with your finger(s) to upshift sharply. On the right side, the larger numbers represent the smallest sprockets. Press the + button at the base of the shifter to upshift and push the lever beside the shifter away to downshift.



Be sure your bicycle's crank is turning while using either shifter to adjust the chain.

If you press ▲ while the display panel is on, the bike will activate PAS control at Level 1. If you press the throttle lever while the display panel is on, the bike will activate throttle control and accelerate to its top speed.

Pedal Assist Control

The pedal assist system (PAS) requires you to continue using the pedals to keep the motor active but provides additional speed and strength as you ride. By default, the PAS has three levels and a 20 mph or 32 km/h top speed. This top speed can be adjusted. If it is, the lower levels will run at 60% and 80% of the new top speed.

Level	0	1	2	3
Speed	—	12 mph	16 mph	20 mph
	—	20 km/h	26 km/h	32 km/h
	0%	60%	80%	100%

The PAS can also be adjusted to use five levels instead, providing additional lower speeds.

Level	0	1	2	3	4	5
Speed	—	8 mph	11 mph	13 mph	16 mph	20 mph
	—	13 km/h	18 km/h	22 km/h	26 km/h	32 km/h
	0%	40%	55%	67%	80%	100%

By default, the PAS is activated at Level 1 as soon as the battery and display panel are on. The bike will accelerate to the speed of current level—8 mph or 13 km/h at Level 1—as soon as the pedals fully turn two times. Press ▲ to go up one level. Press ▼ to go down one level.

The PAS automatically pauses and the motor temporarily shifts to neutral

- If you stop pedaling,
- If you press either brake lever, or
- If your bike accelerates on a slope to a speed faster than your current power level.

The PAS reactivates at its current level once both brakes are released, your speed is at or below the current target, and you resume pedaling. Going from Level 1 to 0 also disables the PAS and puts the motor in neutral until ▲ is pressed, restarting PAS at Level 1.

If you press the throttle lever while PAS is active, the bike will activate throttle control and accelerate to its top speed. If you turn off the display or battery while PAS is active, the motor will stop and the bike will only operate manually.

Throttle Control

This electric bike can work as a single-speed scooter using the throttle lever on the right handlebar. By default, throttle control operates at the bike's top speed—20 mph or 32 km/h—and is available whenever the battery and display panel are on. Press the throttle lever, stop pedaling the bike, and your bike will continue along at the set speed. Note that some jurisdictions require throttle control to be disabled on electric bikes. (See Parameter 10 in the Adjustment section below.)



The bicycle will not exceed its set speed on flat pavement but may do so on slopes.

Throttle control automatically pauses and the motor temporarily shifts to neutral if you press either brake lever or accelerate beyond the current top speed. The motor will resume working once both brakes are released and your speed is at or below the top speed.

If you begin pedaling while throttle control is active, the bike will activate PAS control. If you turn off the display or battery while throttle control is active, the motor will stop and the bike will only operate manually.

ADJUSTMENT

To adjust the bike's parameters, turn on the display and hold ▲ and ▼ simultaneously to enter the adjustment menus. You will automatically start with parameter 01 (Display Brightness). For each parameter, use ▲ and ▼ to change the settings and ⏻ to save your changes and move to the next parameter. Wait for the display to automatically reset to leave the adjustment menus, saving all current changes.

Warning!

DO NOT adjust parameters 03, 06, 07, 13, 14, or 15 while using this display panel with this bike. Parameters 03, 14, and 15 concern details of the electricity coming from the main battery. Parameter 06 allows adjustment of the compatible wheel diameter. Parameters 07 and 13 concern the arrangement of magnets within your motorized wheel. These can be used to modify the display to work with other motorized bicycles but changing any of these values during use with this bicycle **WILL** cause it to perform abnormally, malfunction, and/or break. If such adjustment happens accidentally, stop the bike **IMMEDIATELY** and **IMMEDIATELY** correct the settings.

Parameter	Value	Parameter	Value
03	36	13	5
06	26	14	12
07	1	15	29

01 Display Brightness

Press ▲ and ▼ to adjust the brightness of the display panel. Using the minimum setting that is clearly visible affects your battery life a very little bit but more importantly allows your eyes to go between the road and the display with less readjustment in low light conditions. Setting 1 is dim, 2 is medium, and 3 is bright.

02 Measurement Units

By default, speeds and distances are displayed in US/English customary units (miles and mph). Press ▲ and ▼ to toggle between it and metric (km and km/h). Setting 0 is metric and 1 is US.

03 Battery Voltage

Never adjust this value. If it is ever changed by accident, stop the bike and reset it to 36 before continuing on your way.

04 Timed Shutoff

By default, your display panel and motor remain in standby mode indefinitely when you park your bike (Setting 0). To activate an automatic shutoff once the bike has stopped moving for 1 minute, press ▲ to raise this parameter to 1. Press ▲ and ▼ to adjust the number of minutes before the display shuts down from 1 to 60 or return this setting to 0 to disable the shutoff altogether.

05 Power Levels

By default, your PAS operates with 3 power levels (60/80/100%). Press ▲ and ▼ to toggle between this and 5 levels (40/55/67/80/100%). Setting 0 activates 3 levels of operation and 1 activates 5 levels.

06 Wheel Diameter

Never adjust this value. If it is ever changed by accident, stop the bike and reset it to 26 before continuing on your way.

07 Speed Sensor(s)

Never adjust this value. If it is ever changed by accident, stop the bike and reset it to 1 before continuing on your way.

08 Top Speed

By default, your motor has a top speed of 20 mph or 32 km/h. While in 3-level mode (see “05” above), press ▲ and ▼ to adjust this value. While using US customary units (see “02” above), the speeds will vary as shown:

Value	≤14	15	16	17	18	19	≥20
Level 1	8 mph	9 mph	10 mph	10 mph	11 mph	11 mph	12 mph
Level 2	11 mph	12 mph	13 mph	14 mph	14 mph	15 mph	16 mph
Level 3	14 mph	15 mph	16 mph	17 mph	18 mph	19 mph	20 mph

While using metric units (see “02” above), the speeds will vary as shown:

Value	≤22	23	24	25	26	27	28	29	30	31	≥32
Level 1	13 km/h	14 km/h	14 km/h	15 km/h	16 km/h	16 km/h	17 km/h	17 km/h	18 km/h	19 km/h	20 km/h
Level 2	18 km/h	18 km/h	19 km/h	20 km/h	21 km/h	22 km/h	22 km/h	23 km/h	24 km/h	25 km/h	26 km/h
Level 3	22 km/h	23 km/h	24 km/h	25 km/h	26 km/h	27 km/h	28 km/h	29 km/h	30 km/h	31 km/h	32 km/h

09 Throttle Start

By default, the throttle lever instantly activates the bike's single-speed cruise control. Press ▲ and ▼ to toggle between this and requiring two full rotations of the pedal before throttle control activates. Setting 0 activates instant throttle response and 1 activates a two-rotation start.

10 PAS or Throttle Disablement

By default, your bike offers manual, the PAS, and throttle control as explained above. Press ▲ and ▼ to toggle among this, enabling the PAS only, and enabling throttle control only. Setting 0 disables throttle control. Setting 1 disables PAS control. Setting 2 reactivates both. (To disable both PAS and throttle control, simply leave your battery off or turn off the display panel while riding.)

11 PAS Sensitivity

By default, your bike activates its pedal assist system when you turn the pedals two full rotations while the battery and display panel are both on. Press ▲ and ▼ to adjust how quickly you need to turn the pedals to activate the PAS. Lower values require less pedaling and higher values more.

12 PAS Acceleration

By default, your bike ramps up the pedal assist speed for its current level smoothly and evenly. Press ▲ and ▼ to fine tune this acceleration to suit your riding style. Lower values accelerate more gradually and higher values more quickly.

13 Magnetic Arrangement

Never adjust this value. If it is ever changed by accident, stop the bike and reset it to 5 before continuing on your way.

14 Maximum Current

Never adjust this value. If it is ever changed by accident, stop the bike and reset it to 12 before continuing on your way.

15 Minimum Voltage

Never adjust this value. If it is ever changed by accident, stop the bike and reset it to before continuing on your way.

16 Odometer Reset

Hold ▲ while this parameter is active to reset your bike's total distance traveled to 0.

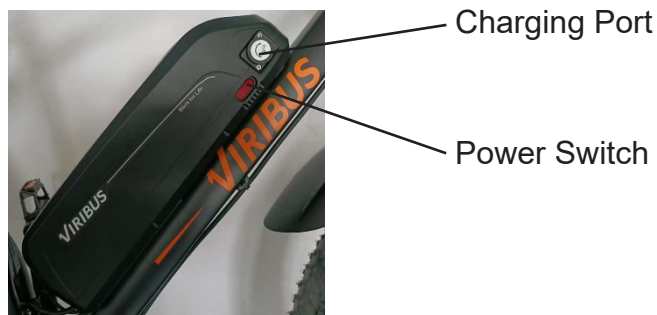
CHARGING

In addition to the battery gauge on the handlebar display, your bike's current power level can be checked on the battery itself. Press the power display button and see how many of the battery's indicator lights turn on. 4 lights indicates a full battery, while 1 light indicates a weak one.



When you find that recharging is necessary,

1. Unlock the 36V battery and remove it from the bicycle.
2. Remove the cover from the charging port beside the battery's power switch.
3. Connect the provided charger to its power cord and the charging port.
4. Connect the charger to a stable and compatible power supply.
5. Periodically check the state of the battery with the power display button. There is no need to fully recharge the battery. Either 3 or 4 lights should provide strong and responsive service. For best results, however, do not allow the battery to ever drain completely and avoid leaving it connected to power once it is already fully charged.



MAINTENANCE





- Always disconnect the main battery before undertaking any cleaning, maintenance, or repair. For the longest possible service life, disconnect the battery between uses.
- Check the parts of the bicycle for any looseness, stiffness, wear, or damage after each use. Tighten, lubricate, repair, or replace any problematic parts before further use. Only replace components of this bicycle and its accessories with identical parts.
- The exterior of the bicycle can be cleaned with a soft damp cloth. Do not use harsh abrasives or caustic chemicals. The display panel and rear light have IP67 and IP56 environmental protection respectively and the main battery has IPX4 waterproofing adequate for rain, but avoid direct pressurized spray that might allow the interior of electronic components to become wet, never charge the main battery while it or your hands are wet, and immediately replace any battery if it ever begins to swell or leak fluid.
- If your bicycle will not be used for an extended period of time, remove all the batteries and store everything in a cool dry place away from direct sunlight and inaccessible to children. Avoid storing electronics in plastic bags, which might allow humidity to build up over time. For best results, check the main battery every three months. If its power sinks below 75% (3 of the 4 indicator lights), recharge to at least that full before returning it to storage.

DISPOSAL



Electrical products should not be disposed of with household products. In the EU and UK, according to the European Directive 2012/19/EU for the disposal of electrical and electronic equipment and its implementation in national laws, used electrical products must be collected separately and disposed of at the collection points provided for this purpose. Locations in Australia, Canada, and the United States may have similar regulations. Contact your local authorities or dealer for disposal and recycling advice.

TROUBLESHOOTING

Icon	Problem	Usual Solutions
	Motor Failure	<ul style="list-style-type: none"> Retighten the appropriate wire connection(s). Replace the problematic part with a new identical one.
	Control Hardware Failure	
	Throttle Failure	<ul style="list-style-type: none"> This icon is displayed when throttle control is disabled. (See Parameter 10 in the Adjustment section above.) This is normal and indicates everything else is working correctly. If this icon is displayed when throttle control is not disabled, something has malfunctioned. Check the wiring and condition of the throttle and motor. Repair or replace any problematic parts.
	Brake Lever Failure	<ul style="list-style-type: none"> This icon is displayed every time the brake levers disconnect the motorized wheel from its power. This is normal and indicates everything is working correctly. If this icon is displayed when the brake levers are not engaged, something has malfunctioned. Check the wiring and condition of the brake levers, lines, and motorized wheel. Replace any problematic parts with a new identical one.

CONTACT US

Thank you for choosing our products! If you have any questions or comments, contact us at help@cs-supportpro.com and we'll resolve your issue ASAP!

For a .pdf copy of the latest version of these instructions, use the appropriate app on your smartphone to scan the QR code to the right.

