

Electric Tricycle User Manual



Read Carefully Before Use
Keep for Future Reference

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Safety Information

Warning!

- Install and adjust this tricycle **ONLY** in accordance with these instructions. Read them completely prior to assembly and use. Contact customer service if any point is unclear. Provide this manual to anyone who will use this tricycle and provide it with this tricycle (whether already assembled or not) 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.
- **ALWAYS** obey all applicable local and national laws and regulations while riding. Do not ride this tricycle in any area prohibited to electric bicycles or tricycles. Always wear your helmet and other required protective gear. Always maintain your reflectors and other required safety equipment.
- **ALWAYS** check whether the brakes function well using the brake levers **BEFORE** riding. Even when power is cut to the motor, the inertia of the tricycle 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 tricycle 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 nonidentical ones.
- Pay attention to the 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.
- **DO NOT** allow use by children or persons unfamiliar with this tricycle or these instructions. Do not ride this tricycle while you are tired or under the influence of drugs or medication.
- **DO NOT** wear loose footwear or clothing that may become caught in the wheels or any other moving parts.
- It is recommended that you not ride your tricycle fast until you are fully familiar with your new electric tricycle and its controls.
- **ALWAYS** be alert for people, animals, or any obstacles that may appear in front of you while riding your tricycle. Be aware that pedestrians and drivers may not expect the speed or responsiveness of your tricycle. 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 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 tricycle 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 (PAS) in any situation, road condition, or terrain where doing so might impair your control of your tricycle.
- **DO NOT** load this tricycle with more than 265 pounds (120 kilograms).
- **NEVER** adjust Parameter 03, 08, 09, 15, 16, 17, 19, 31, 33, 34, 35, 36, or 37 in the display menus. Adjustment of these parameters should only be made when using the display panel with other motorized wheels of differing voltage, diameter, magnetic arrangement, or signal components. In any other case, any adjustment of these parameters should be undone **IMMEDIATELY**. Restore the original settings before any further use of this tricycle.
- **ALWAYS** avoid direct pressurized spray that might allow the interior of the battery, display panel, front light, and other electronic components to become wet. If the interior of the battery accidentally becomes wet, replace it with a new identical one. For the other electronic parts, wait for them to completely dry before any further use.
- **ALWAYS** turn the battery off between uses. For best results, also disconnect the plug from the battery socket. Always fully remove the battery from this tricycle before performing any cleaning, servicing, and storage.
- **NEVER** place the battery near heat sources or explosive or flammable gases. Never expose it to radiation or excessive pressure. Only charge the battery in locations with an ambient temperature between 32° and 104°F (0–40°C).
- **NEVER** modify the battery or power cord. Only use the provided charger with this tricycle. Never get the charger or power cord wet or operate them with wet hands.
- If the 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		350 W	
Wheel	Diameter	24 or 26 in. ("08"=24.0 or 26.0)	61 or 66 cm
	Tire Type	24"×1.75" or 26"×1.75" Tire	
Magnet Arrangement	Speed Sensor	6 Alnico Magnets ("09"=006)	
	Pedal Assist Sensor	12 Alnico Magnets ("15"=12)	
Battery	Type	36V Lithium ("03"=36)	
	Weatherproofing	IP65	
	Operational Temp. Range	-4 to 122°F	-20 to 50°C
	Charging Temp. Range	32 to 104°F	0 to 40°C
	Optimal Storage Temp. Range	50 to 86°F	10 to 30°C
Display Panel	Weatherproofing	IPX5	
Front Light	Weatherproofing	IPX4	
Control Hardware	Current Limit	12 A ("16"=012)	
	Undervoltage Lockout	31 V ("17"=31.0)	
Est. Operational Range	Throttle Control	19 mi.*	30 km*
	PAS Control	31 mi.*	50 km*
Max. Speed		15.5 mph**	25 km/h**
Weight Capacity		265 lb.	120 kg

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

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

Parts Diagram



Item	Name	Qty.
1	Handlebars	1
2	Main Frame with 84-Link Chain	1
3	Battery with Keys	1
4	Rear Frame	1
5	Rear Fenders	2
6	Front Fender	1
7	Rear Fender Supports	2
8	Chain Guard	1
9	Rear Wheels	2
10	Motorized Front Wheel	1
11	Rear Fender Stays	2
12	Front Fender Stay	1
13	Saddle	1
14	Basket	1
15	48-Link Chain	1
16	Zip Ties	2
17	Long Bolts	2
18	Rear Reflectors	2
19	Front Light	1
20	Front Brake Caliper	1
21	Pedals	2

Item	Name	Qty.
22	Front Wheel Cap	1
23	Charger	1
24	Power Cord	1
25	Locking Pins	2
26	Hex Bolts	6
27	Phillips Bolts	6
28	Front Brake Disc	1
29	Rear Wheel Caps	2
30	Headset Spacer	1
31	Bottom Connecting Plates	3
32	Top Connecting Plates	3
33	Slats	2
34	Saddle Suspension	1
35	Reversible Screwdriver	1
36	Multifunctional Wrench	1
37	18 mm Wrench	1
38	22 mm Wrench	1
39	4 mm Hex Wrench	1
40	5 mm Hex Wrench	1
41	6 mm Hex Wrench	1

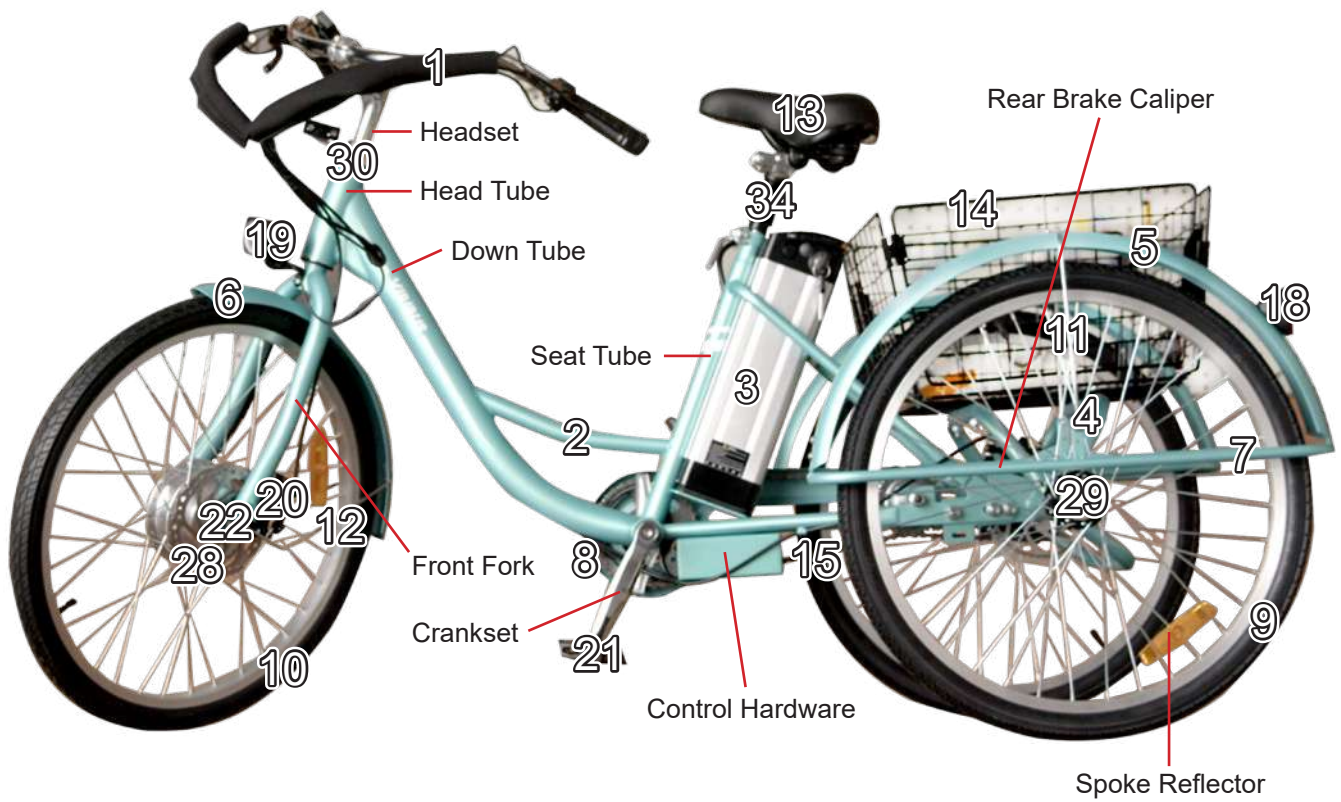
Not Included but Helpful

- Pliers

When you first get your new electric tricycle, carefully unpack all of the above-mentioned components and accessories. 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.

For your convenience, all bolts, nuts, and washers except those for the front brake disc and some for the basket are preinstalled where they will be needed. During assembly, simply remove the fasteners as needed and keep them nearby. Reinstall them to connect each part as you go and tighten them securely for safe and satisfactory experience.

Product Diagram



Handlebars



Control Buttons

+ Increases the pedal assist level or toggles values up when pressed. Turns the front light on and off when held

M Toggles the variable display when pressed. Turns the display panel on and off when held

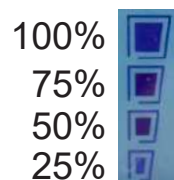
- Decreases the pedal assist level, turns off the motor, or toggles values down when pressed. Turns cruise or push assist control on and off when held



Digital Display




The battery display shows your remaining battery power level.



The number in the top area is the current speed in mph or km/h or an error code.

The number in the middle area is a variable display that may show your total distance traveled (ODO), your current trip distance (TRIP), your battery's voltage, and the value of the pulse width modulation (PWM).

The bottom area displays the current PAS level, i.e., low (ECO), medium (MID), and high (HIGH).

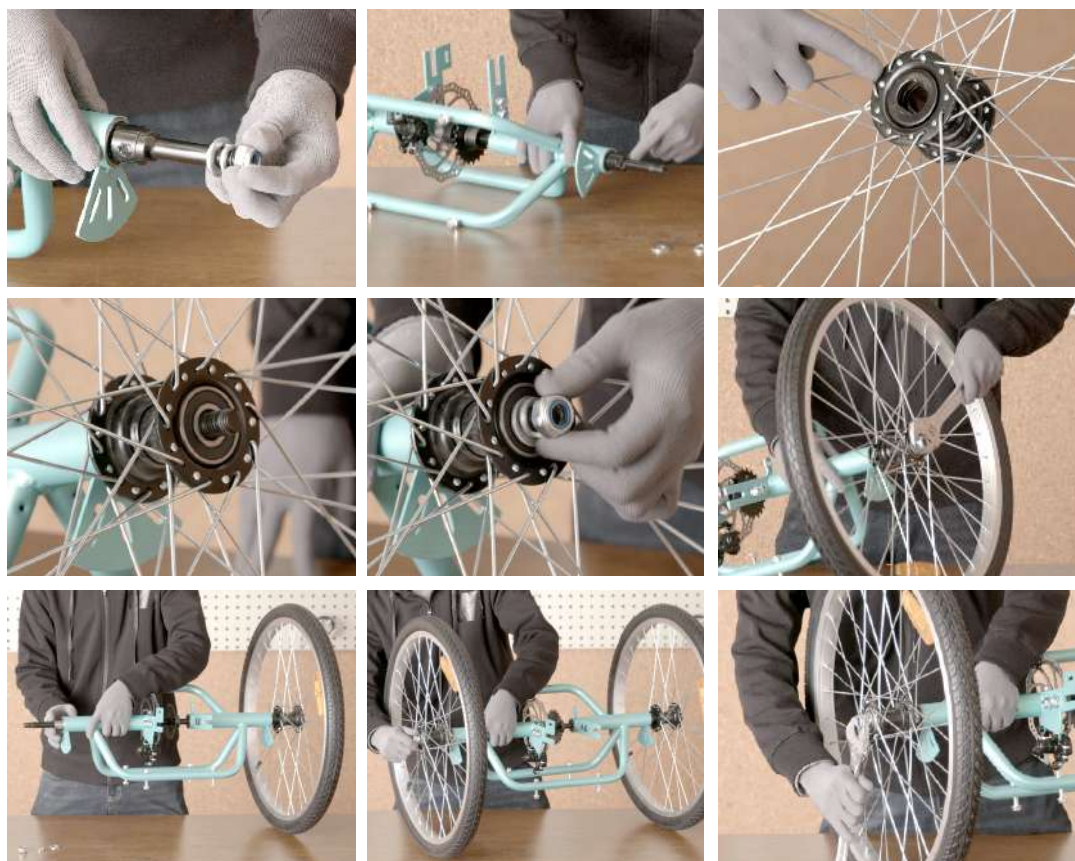
 is displayed when the front light is on after such display is enabled. (See Parameter 32 in the Adjustment section below.)


Assembly

 Wear hand and eye protection during assembly.

To see these instructions in video form, go to our YouTube channel **Viribus Bikes** and search for “Viribus 350W Electric Tricycle Assembly Video”.

1. Installing the Rear Wheels



 The two rear wheels (9) **ARE** different and should **NOT** be mixed up. The wheel with the D-shaped slot goes with the D-shaped hub on the right side of the rear axle while the wheel with the O-shaped slot goes with the O-shaped hub on the left side.

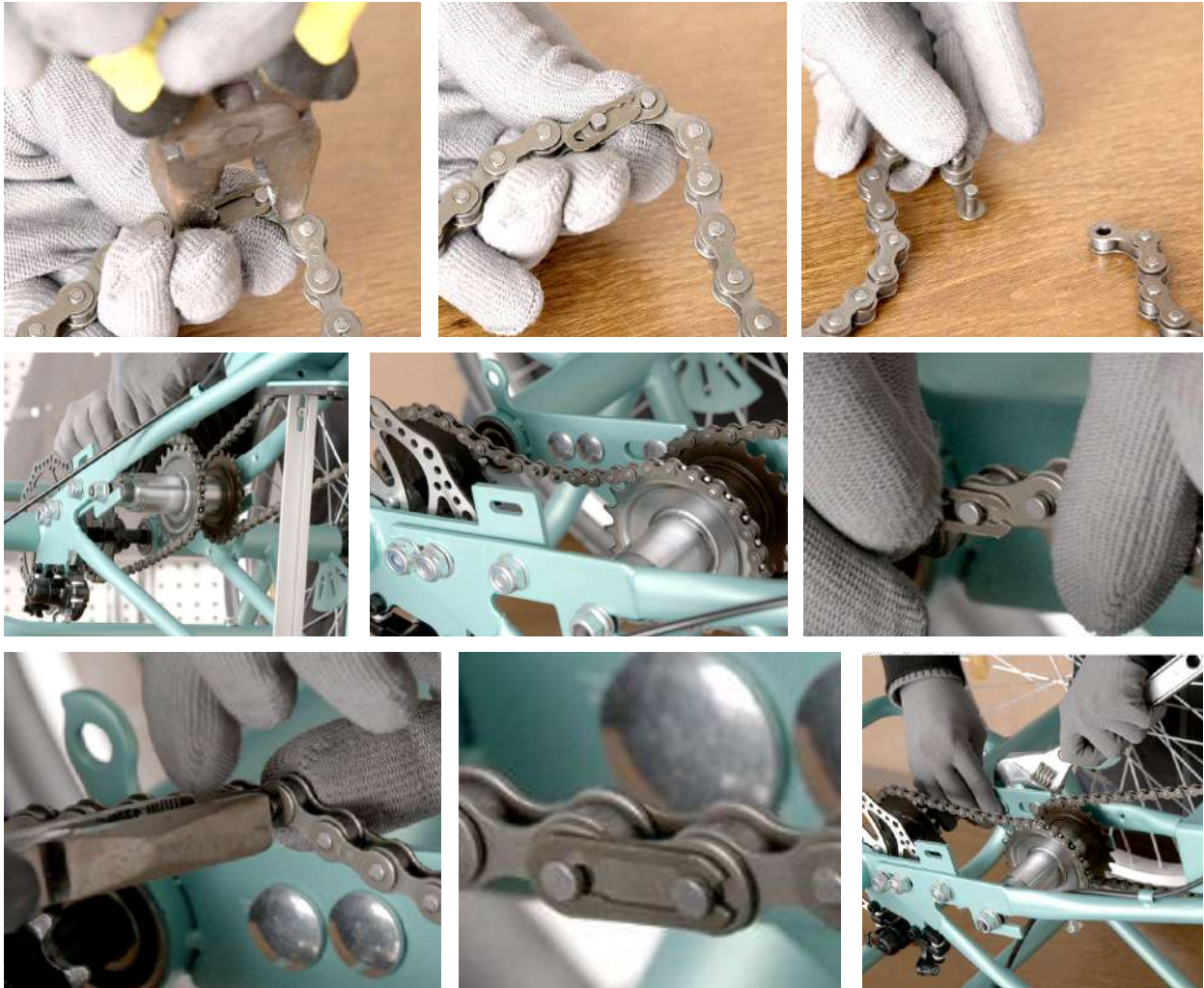
1. Place the rear frame (4) vertically on a firm level surface.
2. Remove the nut and 2 washers from the D-shaped hub on the right side by hand. Place them nearby.
3. Insert the wheel with the D-shaped slot onto the D-shaped hub.
4. Replace the washers and nut, tightening the nut with the 22 mm wrench (38).
5. Remove the nut and 2 washers from the O-shaped hub on the left side. Place them nearby.
6. Insert the wheel with the O-shaped slot onto the O-shaped hub.
7. Replace the washers and nut, tightening the nut in the same fashion.

2. Connecting the Rear and Main Frames



1. Remove the 4 sets of nuts and washers from both sides of the rear frame by hand. Place them nearby.
2. Unlock the battery (3) by turning its key to “Unlock” and raise the battery away from the main frame (2) as shown. Place the battery nearby.
3. Turn the main frame upside down and loosen the nuts on both sides of its tail. Align its slots and bolts with the bolts and slots on the rear frame, sliding it onto the rear frame as shown. For best results, start with either side and repeat for the other side.
4. Replace the removed washers and nuts onto the frames.
5. Partially tighten all these nuts with the multifunctional wrench (36) or your 17 mm wrench. (Fully tighten them later after chain installation.)

3. Installing the 48-Link Chain



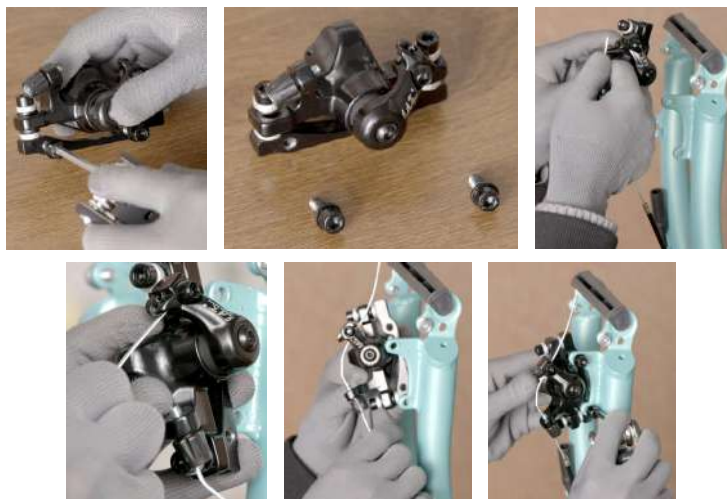
1. Slide the clip away from the 48-link chain (15) using pliers (not included). Remove the inner plate from the master link and disconnect the chain.
2. Fit the chain around the two sprockets as shown.
3. Joint both ends of the chain, jamming the pin into the slot and replacing the inner plate and clip into place. Ensure that the chain moves freely by rotating the adjacent crank arm.
4. Tighten all the nuts connecting the two frames completely with the multifunctional wrench or your 17 mm wrench.

4. Installing the Chain Guard



1. Remove the 3 Phillips bolts from the guard supports near the crankset and rear sprocket with the provided screwdriver (35). Place them nearby.
2. Place the chain guard (8) onto its supports and over the chain as shown.
3. Replace and tighten the removed bolts.
4. Rotate the right crank arm to confirm the chain does not rub against the guard. If it does, readjust the guard so that the chain can move freely.

5. Installing the Front Brake Caliper



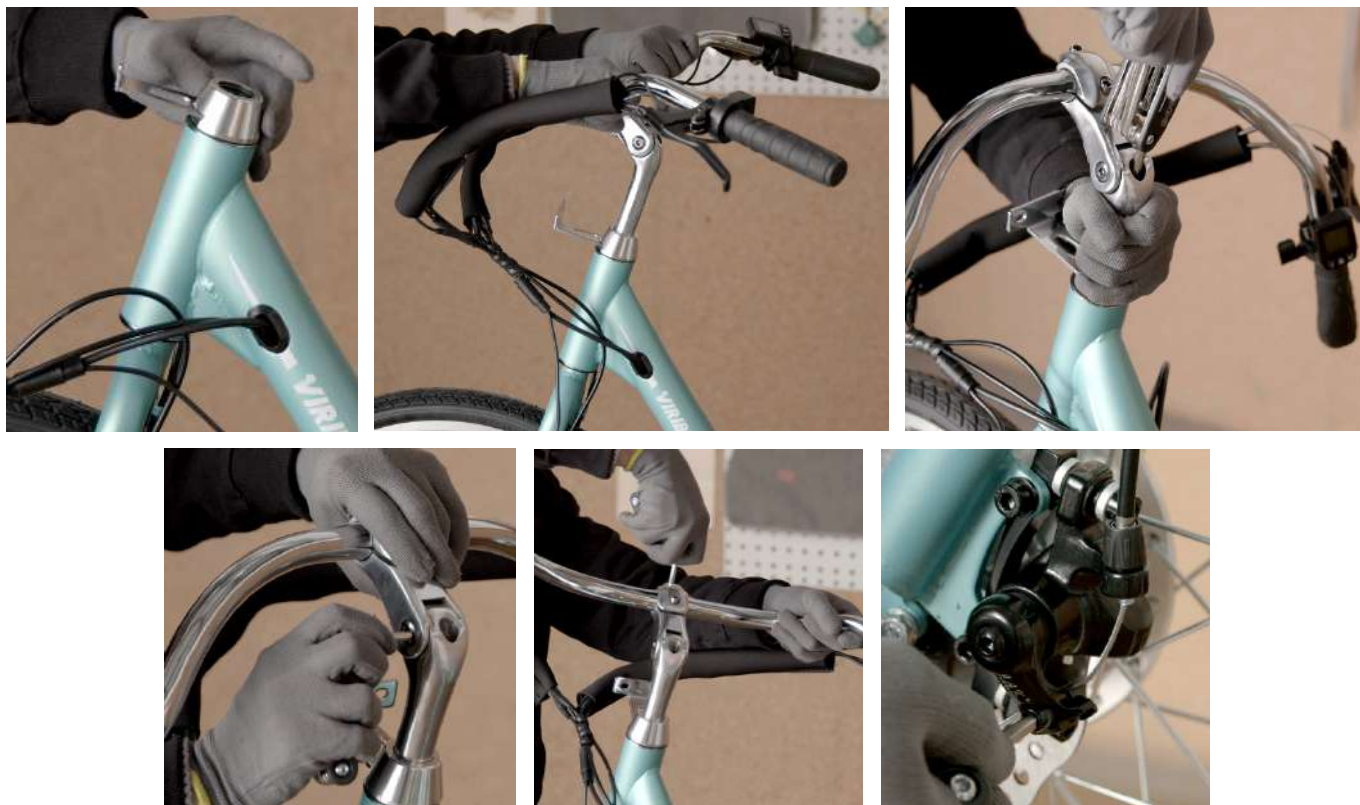
1. Remove the hex bolts from the front brake caliper (20) with the 5 mm hex wrench (40). Place them nearby.
2. Pass the front brake cable from the left brake lever through the slots on the brake caliper as shown.
3. Replace and partially tighten the bolts. (Fully tighten them later after handlebars installation.)

6. Installing the Front Brake Disc and Wheel



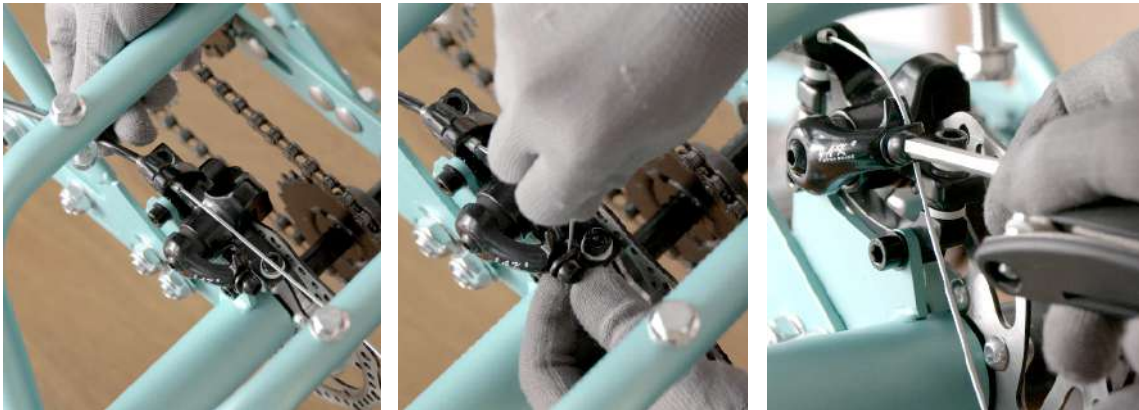
1. Fit the front brake disc (28) onto the left side of the hub on the motorized front wheel (10) and secure it into place by attaching the provided hex bolts (26) and tightening them with the 4 mm hex wrench (39).
2. Remove the protective bar from the front fork as shown.
3. Fit the front wheel into the front fork, keeping the motor cable on the right and allowing the fork to catch the wheel's axle snugly.
4. Remove the front wheel cap preinstalled on the right side of the wheel, tighten the nut with the 18 mm wrench (37), and replace the cap.
5. Tighten the nut on the left side of the wheel with your 18 mm wrench.

7. Installing the Handlebars



1. Carefully turn the tricycle frames right side up.
2. Mount the headset spacer (30) onto the top of the head tube.
3. Remove the protective cover underneath the headset of the handlebars (1). Slide the handset into the head tube until your desired height is reached and secure it in place by tightening its locking bolt with the 6 mm hex wrench (41).
4. Adjust the position of the stem as needed and secure it in place by tightening its locking bolts on the left and top sides with the 6 mm hex wrench.
5. Tighten the bolts on the front brake caliper completely with the 5 mm hex wrench.
6. Test the front brake by pressing the left brake lever.

8. Installing the Rear Brake



1. Feed the rear brake cable from the right brake lever through the slots on the rear brake caliper as shown.
2. Pull the cable taut, tightening the locking bolt with the 6 mm hex wrench.
3. Test the rear brake by pressing the right brake lever.

9. Installing the Rear Reflectors




The two rear wheels (9) **ARE** different and should **NOT** be mixed up. The wheel with the D-shaped slot goes with the D-shaped hub on the right side of the rear axle while the wheel with the O-shaped slot goes with the O-shaped hub on the left side.

1. Remove the nut from the bolt on one rear reflector by hand. Place it nearby.
2. Attach the rear reflector to a rear fender.
3. Replace and tighten the nut. For best results, use your pliers.
4. Install the other rear reflector following the same steps.

10. Installing the Rear Fenders, Supports, and Stays



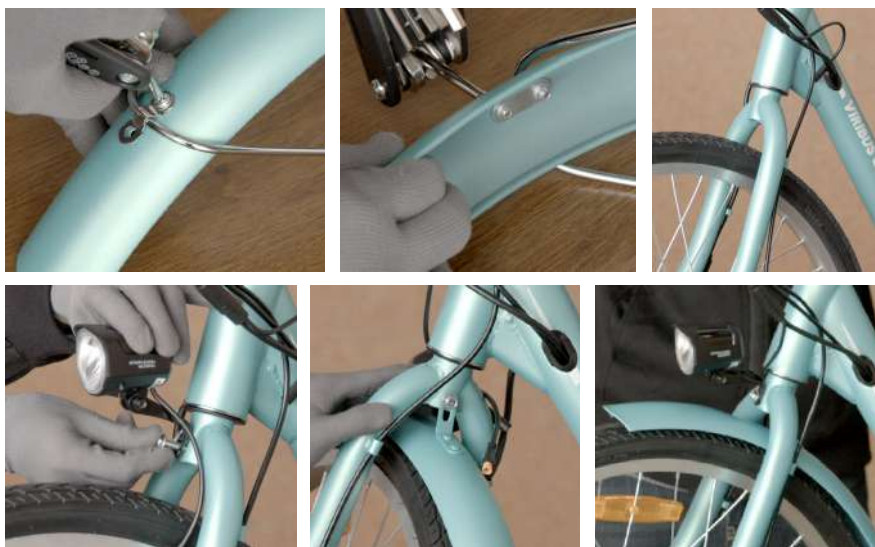
 The rear fenders, supports, and stays can be used on either side.

1. Remove the Phillips bolts from the fender mounts on one rear fender support (7) by hand. Place them nearby.
2. Fit one rear fender onto the mounts and secure it into place using the removed bolts.
3. Remove the Phillips bolts from the fender stay mounts on the fender support. Place them nearby.
4. Place one rear fender stay (11) between the holes on the top of the fender, aligning its slots with the holes on the mounts.
5. Replace and tighten the removed bolts to secure the fender stay to the mounts.
6. Lock the fender stay onto the fender using one set of connecting plates (31 & 32) and two of the provided Phillips bolts (27) as shown.



7. Remove the 4 sets of nuts, Phillips bolts, and washers from the bottom of the fender support by hand. Place them nearby.
8. Fit the rear fender over a rear wheel, aligning the fender support's bottom holes with the slots on either side of the rear frame and leaving extra space between the fender and wheel.
9. Replace the washers, bolts, and nuts. While holding the bolts with the screwdriver, tighten the nuts completely with the multifunctional wrench or your 8 mm wrench.
10. Install the other rear fender, support, and stay following the same steps.

11. Installing the Front Fender, Stay, and Light

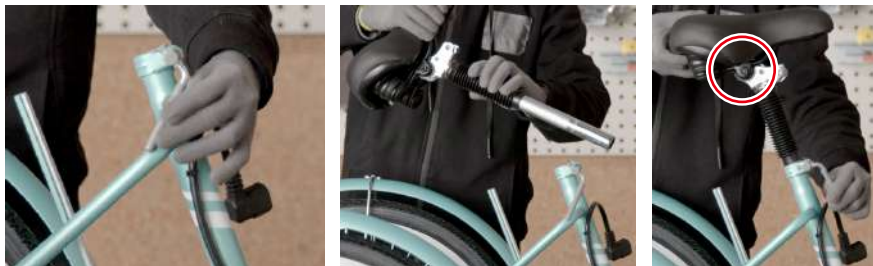


1. Fit the front fender stay (12) into place on the front fender (6).
2. Secure the fender stay using the rest of the provided connecting plates and Phillips bolts as described above.
3. Remove the nut and locking bolt from the top of the front fork by hand. Place them nearby.
4. Attach the mount of the front light (19) to the top of the front fork by replacing the bolt.
5. While holding the light firmly, place the front fender over the front wheel and allow the bolt to pass through its mount as shown.
6. Replace the nut, tightening it completely with the multifunctional wrench or your 10 mm wrench.



7. Remove the Phillips bolts from both sides of the front fork's tips with the screwdriver. Place them nearby.
8. Turn the front fender stay, aligning its slots with the holes on the front fork and adjusting its shape if needed.
9. Replace and tighten the removed bolts.
10. Connect the yellow banded cable to the front light and arrange the cable into place along the front fork.

12. Installing the Saddle



1. Loosen the locking bolt on the top of the seat tube by turning its handle counterclockwise.
2. Slide the saddle suspension (34) onto the post of the saddle (13) as shown.
3. Insert the saddle post into the seat tube until your preferred height is reached.
4. Retighten the locking bolt by turning its handle completely clockwise.
5. To adjust the saddle forward or backward, loosen the two nuts underneath the saddle using the multifunctional wrench or your 13 mm wrench, slide the saddle on its support frame until your desired position is reached, and retighten the nuts. Confirm they hold tight and the saddle does not show any wobble.

13. Installing the Pedals



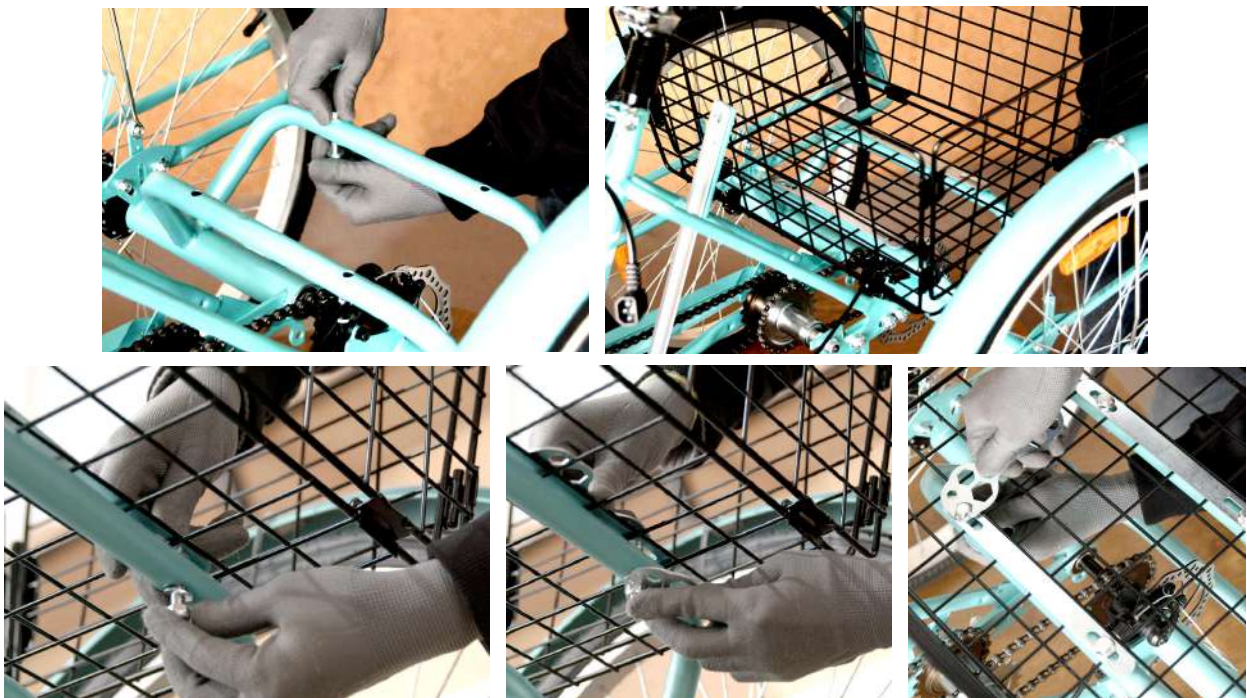
 The two pedals (21) **ARE** different and should **NOT** be mixed up. The right pedal is marked with an **R** and the left with an **L**.

1. Attach the pedals to the crank arms on the appropriate side, screwing them into place.
2. Tighten their locking nuts with the multifunctional wrench or your 15 mm wrench.
3. Test that the chain turns smoothly while using the pedals, adjusting as needed.

14. Installing the Basket



1. Unfold the basket (14) and align the slots on the edge of each side.
2. Connect the sides using the provided long bolts (17) and locking pins (25) as shown.



3. Remove the 4 sets of nuts, bolts, and washers from the rear frame by hand.
4. Fit the basket onto the rear frame, placing the slats (33) into the basket where their bolt holes are aligned with those on the rear frame.
5. Replace these fasteners, tightening the bolts and nuts with the multifunctional wrench or your 12 mm wrench.

15. Installing the Wheel Caps




1. Attach the front wheel cap (22) to the left side of the front wheel hub, pressing until it becomes secure.
2. Attach the rear wheel caps (29) to the rear wheel hubs, pressing until they are locked in place.

16. Reinstalling the Battery



1. Raise the rear of the saddle. Slide the removed battery back onto its mount until it clicks into place and lower the saddle as shown.
2. Insert the attached power plug into the socket on the right side of the battery.
3. To activate the battery, turn the key clockwise to "ON". To deactivate the battery, turn the key counterclockwise to "OFF".

 Always turn the battery off between uses and remove the key and plug to prevent unauthorized use.

Operation



Your battery was charged at the factory but may have run down during shipping. Check the battery's remaining power for the first use and refill it using the provided charger as described in the Charging section below.

Pedal Assist Control

When the pedal assist system (PAS) is active, you must use the pedals to keep the motor on but you will enjoy additional speed and strength as you ride. The PAS has three levels (ECO, MID, and HIGH) which can be adjusted separately using Parameters 05–07 in the adjustment menus or combined using Parameter 18. The overall top speed is set by Parameter 10, with a maximum possible of 15.5 mph (25 km/h). By default, the three modes use separate top speeds:

Level	ECO	MID	HIGH
Speed	7.5 mph	11.2 mph	15.5 mph
	12 km/h	18 km/h	25 km/h

The tricycle is in neutral when the display panel turns on and displays no PAS levels. Press **+** once to activate the PAS at ECO. The tricycle will accelerate to its ECO speed as soon as the pedals fully turn two times. Press **+** to upshift to MID and press **+** again to upshift to HIGH. Press **-** to downshift.

The PAS automatically pauses and the motor temporarily shifts to neutral in the following cases:

- You downshift from the ECO PAS level.
- You stop pedaling for too long.
- You press either brake lever.
- Your tricycle accelerates to a speed faster than the current level's top speed.
- You set all PAS levels to 00 (Parameters 05–07) or disable the PAS (Parameter 12).

When PAS control is available, the PAS reactivates at its previous level once both brakes are released, your speed is at or below the previous level's top speed, and you resume pedaling.

If you press the throttle lever while PAS is active, the tricycle will activate throttle control and accelerate to its overall top speed. If you turn off the display panel while PAS is active, the PAS will also turn off. The motor will stop and the tricycle will operate manually.

Throttle Control

When the display panel is on and the throttle lever on the right handlebar is activated, the tricycle acts as a single-speed scooter at its overall top speed (Parameter 10). Your tricycle will continue along at this speed while you hold the throttle and do not pedal. Note that some jurisdictions may require throttle control to be fully disabled (Parameter 12) on electric bicycles and tricycles that are not registered and licensed as scooters or motorcycles. Confirm that throttle control is legal in your area before use on public roads and bike paths.

Throttle control pauses and the motor temporarily shifts to neutral in the following cases:

- You release the throttle lever completely.
- You press either brake lever.
- Your tricycle accelerates to a speed faster than the overall top speed.
- You disable the throttle from the display panel.

When throttle control is available, the throttle control reactivates once both brake levers are released, your speed is at or below the overall top speed, and you activate the throttle lever.

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

Cruise Control

Cruise control allows you to ride the tricycle at a constant speed without turning the pedals or pressing throttle lever. When the display panel is on, use the pedal assist or throttle control to reach your ideal speed, hold **-**, and stop pedaling or release the throttle lever. Your tricycle should maintain its current speed without further adjustment. To deactivate cruise control, release **-** or press either brake lever, shifting the tricycle to neutral.

Push Assist Control

The push assist system helps a bit as you push the tricycle while walking or climbing. After the display panel turns on, hold **-** and push your tricycle forward. This will cause the motor to activate at a speed of 3.7 mph (6 km/h). Releasing **-** or pressing either brake lever will end this.

Manual Control

To ride your tricycle normally, leave the display panel turned off, leave the key at “OFF” on the battery, or remove the battery. (See the Assembly section above or the Charging section below for how to remove the battery.) You can also ride normally with the display panel turned on by pressing **-** until the motor is put to neutral or by deactivating all PAS levels (Parameters 05–07) and throttle control (Parameter 12).

If you have not disabled it and press **+** while the display panel is on, the tricycle will activate PAS control at ECO. If you have not disabled it and press the throttle lever while the display panel is on, the tricycle will activate throttle control and accelerate to its overall top speed.

Adjustment

To adjust the tricycle's parameters, turn on the display panel and hold + and – simultaneously to enter the adjustment menus. You will automatically start with Display Brightness (Parameter 01).

For each parameter, use + and – to change the settings and press **M** to save your changes and move to the next parameter. Hold + and – simultaneously again or wait for the display to automatically reset to leave the adjustment menus, saving all current changes.

Warning!

NEVER adjust Parameter 03, 08, 09, 15, 16, 17, 19, 31, 33, 34, 35, 36, or 37 using this display panel with this tricycle. Parameters 03, 16, and 17 concern details of the electricity coming from the battery. Parameter 08 allows adjustment of the compatible wheel diameter. Parameters 09 and 15 concern the arrangement of magnets within your motorized wheel and on your PAS sensor. Parameters 19, 31, 33, 34, 35, 36, and 37 concern signals between the components. These can be used to modify the display panel to work with other motorized tricycles but changing any of these values during use with this tricycle **WILL** cause it to perform abnormally, malfunction, and/or break. If such adjustment happens accidentally, stop the tricycle **IMMEDIATELY** and **IMMEDIATELY** correct the settings.

Parameter	Value
03	36
08	24.0 or 26.0
09	006
15	12
16	012
17	31.0
19	0
31	1
33	1
34	1
35	0300
36	0700
37	1000

01 Display Brightness

Press + and – to adjust the brightness of the display panel. Using the minimum setting that is clearly visible prolongs 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. Settings 0 is the dimmest and Setting 9 is the brightest.

02 Measurement Units

By default, speeds and distances are displayed in metric units (km and km/h). Press + and – to toggle between this and English customary units (miles and mph). Setting 0 is kilometers and Setting 1 is miles.

03 Battery Voltage

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

04 Timed Shutoff

By default, your display panel and motor will be in standby mode indefinitely when you park your tricycle (Setting 00). Press + once to toggle to Setting 01, automatically shutting off your tricycle once it has stopped moving for 1 minute. Press + and - to adjust the number of minutes before the display shuts down between 01 and 99.

05 Speed at ECO

By default, your PAS goes 7.5 mph or 12 km/h (Setting 05) at its ECO level. Press + and - to adjust this value between 00 and 15 as needed. Setting 00 disables ECO, meaning the motor will not activate until it is upshifted to MID.

06 Speed at MID

By default, your PAS goes 11.2 mph or 18 km/h (Setting 10) at its MID level. Press + and - to adjust this value between 00 and 15 as needed. Setting 00 disables MID, meaning the motor will not activate until it is downshifted to ECO or upshifted to HIGH.

07 Speed at HIGH

By default, your PAS goes 15.5 mph or 25 km/h (Setting 15) at its HIGH level. Press + and - to adjust this value between 00 and 15 as needed. Setting 00 disables HIGH, meaning the motor will not activate until it is downshifted to MID.

Setting	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Speed*	mph	—	4.5	5.2	6	6.7	7.5	8.2	8.9	9.7	10.4	11.2	11.8	12.7	13.5	14.3	15.5
	km/h	—	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6	16.8	18	19.2	20.4	21.8	23	25

* Based on unloaded wheel rotation at full power without friction. True speeds will vary according to variables such as battery strength and load but should remain within ±1 mph. The top speed of all PAS levels is also limited by Parameter 10.

08 Wheel Diameter

Never adjust this value. If it is ever changed by accident, stop the tricycle and reset it to 24.0 or 26.0 depending on the wheel size before continuing on your way.


09 Speed Sensor

Never adjust this value. If it is ever changed by accident, stop the tricycle and reset it to 006 before continuing on your way.

10 Top Speed

By default, your motor has an overall top speed of 15 mph (Setting 015 in the English unit display) or 25 km/h (Setting 025 in the metric unit display). This controls the throttle speed and the true top speeds of the three PAS levels. Press + and - to adjust the value as needed. When English units are active, Settings 001 to 015 control the maximum speed in miles per hour and settings above 015 are equal to 15 mph. When metric units are active, Settings 001 to 025

control the maximum speed in km/h and settings above 025 are equal to 25 km/h. Setting 000 is special: It disables this control entirely. PAS levels will operate according to the speeds set in Parameters 05–07 and the throttle will operate at 15.5 mph (25 km/h).

 Always observe the local and national laws and regulations on speed limit for electric bicycles and tricycles.

11 Throttle Start

By default, the throttle lever instantly activates the tricycle's single-speed run. Press + and – to toggle between this and requiring two full rotations of the pedals before throttle control activates. Setting 0 activates instant throttle response and Setting 1 activates a two-rotation start.

12 PAS and Throttle Disabling

By default, your tricycle offers both PAS and throttle control. 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.)

13 PAS Sensitivity

By default, your tricycle activates its pedal assist system when you turn the pedals two full rotations while the display panel is 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.

14 PAS Acceleration

By default, your tricycle 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.

15 PAS Sensor

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

16 Maximum Current

Never adjust this value. If it is ever changed by accident, stop the tricycle and reset it to 012 before continuing on your way.

17 Minimum Voltage

Never adjust this value. If it is ever changed by accident, stop the tricycle and reset it to 31.0 before continuing on your way.

18 Speed Difference among PAS Levels

By default, different PAS levels have different speed settings provided by Parameters 05–07. Press + and – to toggle between this (Setting 1) and only using the overall top speed provided by Parameter 10 for all PAS levels (Setting 0).

19 Throttle-Controller Communication

Never adjust this value. If it is ever changed by accident, stop the tricycle and reset it to 0 before continuing on your way.

20 Cruise and Push Assist Control

By default, your tricycle allows you to ride with cruise control and walk with push assist control as mentioned above. Press + and – to toggle between this (Setting 1) and disabling both (Setting 0).


26 Odometer Reset

Hold M, +, or – while this parameter is active to reset your tricycle’s record of its total distance traveled to 000.0.

31 PWM Value Display

Never adjust this value. If it is ever changed by accident, reset it to 1.

32 Front Light Icon Display

By default,  is not displayed when the front light turns on. Press + and – to enable or re-disable this as needed. Setting 0 disables such display and Setting 1 enables it.

33 Automatic Testing Mode for the Throttle’s Hall Effect Sensor

Never adjust this value. If it is ever changed by accident, reset it to 1.

34 Locking the Display Panel to Test the Throttle’s Hall Effect Sensor

Never adjust this value. If it is ever changed by accident, reset it to 1.

35 PWM Value for ECO

Never adjust this value. If it is ever changed by accident, stop the tricycle and reset it to 0300 before continuing on your way.

36 PWM Value for MID

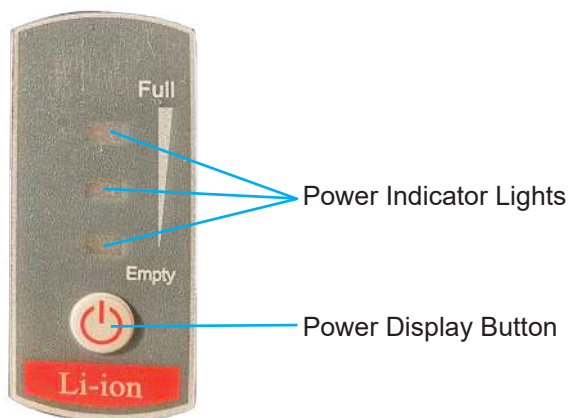
Never adjust this value. If it is ever changed by accident, stop the tricycle and reset it to 0700 before continuing on your way.

37 PWM Value for HIGH

Never adjust this value. If it is ever changed by accident, stop the tricycle and reset it to 1000 before continuing on your way.

Charging

In addition to the handlebar display, your tricycle'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. 3 lights indicate a full battery, while 1 light indicates a weak one.



When you find that recharging is necessary,

1. Unlock the battery by turning the key counterclockwise to "Unlock".
2. Remove the battery from the tricycle.
3. Connect the provided charger (23) to its power cord (24) and the charging port beside the battery's key hole.
4. Connect the charger to a stable and compatible power source. The charger's power indicator light should turn red and charging should begin.
5. Periodically check the state of the battery with the power display button. There is no need to fully recharge the battery. Either 2 or 3 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 charged.



Troubleshooting

Code	Problem	Usual Solution(s)
E001	Control Hardware to Display Panel Communication Error	Restart the display panel.
		Retighten the appropriate wire connection(s).
		Check the condition of the display panel and control hardware. Repair any problematic parts or replace them with new identical ones.
E002	Display Panel to Control Hardware Communication Error	Restart the display panel.
		Retighten the appropriate wire connection(s).
		Check the condition of the display panel and control hardware. Repair any problematic parts or replace them with new identical ones.
E003	Control Hardware Error	Retighten the appropriate wire connection(s).
		Check the condition of the control hardware. Repair any problematic parts or replace them with new identical ones.
E004	Hall Sensor Motor Error	Retighten the appropriate wire connection(s).
		Check the motor's hall effect sensor. Repair it or replace it or the motor with a new identical one.
		Check the condition of the control hardware. Repair any problematic parts or replace them with new identical ones.
E005	Phase Loss Motor Error	Retighten the appropriate wire connection(s).
		Check the condition of the motor's phase. Repair it or replace it or the motor with a new identical one.
		Check the condition of the control hardware. Repair any problematic parts or replace them with new identical ones.
E006	Throttle Error	Check the wiring and condition of the throttle and motor. Repair any problematic parts or replace them with new identical ones.
E007	Brake Lever Error	Check the wiring and condition of the brake levers, lines, calipers, and discs as well as the motorized wheel. Replace any problematic parts with new identical ones.
E008	PAS Sensor Error	Check the PAS sensor disc located on the crankset. Adjust it back into place or replace it with a new identical one.
E009	Undervoltage Error	Refill the battery.
		Replace the battery with a new identical one.

Maintenance

- Always disconnect the battery before undertaking any cleaning, maintenance, or repair. For the longest possible service life, disconnect the battery between uses.
- Check the parts of the tricycle 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 tricycle and its accessories with identical parts.
- The exterior of the tricycle can be cleaned with a soft damp cloth. Do not use harsh abrasives or caustic chemicals. All electronic components have waterproofing adequate for rain, but avoid direct pressurized spray that might allow the interior of electronic components to become wet, never charge the battery while it or your hands are wet, and immediately replace the battery if it ever begins to swell or leak fluid.
- If the tricycle will not be used for an extended period of time, remove the battery 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 battery every three months. If its power sinks below $\frac{2}{3}$ (2 of the 3 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.

Contact Us

Thank you for choosing our products! If you have any questions or comments, contact us at contact@b2ccsonline.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.



AAE-R1AB-AB AAE-R1AB-AG
AAE-R1AB-AN AAE-R1AB-AW
AAE-R2AB-AB AAE-R2AB-AG
AAE-R2AB-AN AAE-R2AB-AW
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