

# Electric Tricycle

## User Manual



Read Carefully Before Assembly  
Keep for Future Reference

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# Safety Information

## Warning

### General Notice

- Read **ALL** these instructions 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.
- **ONLY** assemble and use this tricycle in accordance with these instructions. Failure to do so may lead to serious property damage and severe personal injury.

### Traffic Rules

- **ALWAYS** obey **ALL** applicable local and national laws and regulations while riding.
- **DO NOT** allow use by children, by persons unfamiliar with this tricycle or these instructions, or by anyone whose physical or mental impairment precludes safe use.
- **DO NOT** ride this tricycle while tired or under the influence of drugs or medication.
- **DO NOT** ride this tricycle in **ANY** area prohibited to electric tricycles.
- **ALWAYS** maintain your reflectors and other required safety equipment.
- It is advisable to equip your tricycle with a warning device such as a horn, bell, and light in case you are riding at times of poor visibility. This is **EVEN** required in some jurisdictions.

### Clothing

- **ALWAYS** wear appropriate hand protection during assembly, disassembly, adjustment, or repair of this tricycle.
- **DO NOT** wear loose footwear or clothing that may become caught in the wheels or any other moving parts while riding.
- **DO NOT** ride this tricycle with bare feet.  
**ALWAYS** wear closed-toe shoes with good traction to maintain grip on the pedals and provide protection for your feet.
- **ALWAYS** wear a helmet and other required protective gear that meet safety standards while riding.
- Gloves with grip padding are strongly recommended for riding, as they can strengthen your hold on the handlebars and protect your hands in case of a fall.
- If necessary, wear sunglasses or other clear protective eyewear to shield your eyes from dust, debris, and insects.
- In sunny conditions, it is advisable to apply sunscreen to exposed skin, especially for long rides.
- For best results, choose brightly colored or reflective clothing or attach reflective accessories or strips to your clothing to enhance visibility from all angles, especially during low-light conditions.

# Safety Information

## Safety Checks

- **ALWAYS** check that **BOTH** the front and rear brakes are positioned properly **BEFORE** riding. Even when power is cut to the motor, the inertia of the tricycle will often require active braking power.
- **ALWAYS** check that **ALL** components and fasteners are intact and securely tightened **BEFORE** and **AFTER** riding.
- Regularly check the reflectors to make sure that they are clean, straight, unbroken, and securely mounted. Also perform this check for the front light.  
Riding with low light or without lights or reflectors is **EXTREMELY** dangerous.
- **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, especially bent or broken spokes and wheel rims.
- **NEVER** replace any components or fasteners with nonidentical ones.

## Sensible Use

- **ONLY** allow one person to use this tricycle at a time.
- **DO NOT** carry children in the rear basket while riding.  
If carrying pets, ensure that this act is permitted in your jurisdiction and they are safely secured with comfort.
- **NEVER** ride at a speed where your stopping distance exceeds your visibility.
- For optimal safety, it is **NOT** recommended to ride your tricycle at night or in environments with poor visibility (e.g., foggy or snowy conditions).  
If you have an emergency that makes it necessary to do so, keep your light on and limit your speed appropriately.
- It is recommended that you **NOT** ride your tricycle fast **UNTIL** you are **FULLY** familiar with this new electric tricycle and its controls.  
**HOWEVER**, even when you are familiar with the tricycle, **ALWAYS** be mindful of your speed, ensuring that you have sufficient room to brake in an emergency.
- **DO NOT** ride this tricycle in extreme weather conditions, such as thunderstorms and hurricanes. If you meet with them during a ride, stop your tricycle, find a safe shelter, and wait until they pass.
- When meeting a strong wind, keep a firm grip on the handlebars, lean into the wind, and adjust your position as needed to maintain control.
- In wet weather, be careful to avoid sharp turns, which are easy to cause an accidental fall.
- **ALWAYS** be alert for people, animals, or any obstacles that may appear in front of you while riding your tricycle.  
**ALWAYS** be careful of passing parked cars, whose doors might open suddenly.

# Safety Information

**ALWAYS** 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.

- **ALWAYS** be careful at road and rail crossings. Slow down and check both ways for oncoming traffic.
- **DO NOT** ride this tricycle in close proximity to precipices or on highly uneven, sandy, or sloped surfaces.
- **DO NOT** push backward on the pedals when using the gear shifter.  
Otherwise, the chain may get stuck, causing serious damage to this tricycle.
- **DO NOT** carry packages or objects on your tricycle in a way that obstructs your view of the road.
- **DO NOT** use harsh abrasives or caustic chemicals to maintain this tricycle.
- **DO NOT** load this tricycle with more than 330 pounds (150 kg), including 110 pounds (50 kg) in the rear basket.
- **ALWAYS** maintain 40–65 psi (2.8–4.5 bar) when inflating the wheel tires.
- For best results, place this tricycle in locations inaccessible to children after use.  
Otherwise, provide constant supervision to prevent accidents.

## Electronic Component Issues

- **NEVER** use the throttle or pedal assist system (PAS) in any situation, road condition, or terrain where doing so might impair your control of this tricycle.
- **DO NOT** use the display panel to adjust the default values for **ANY** parameters at random or without any professional guidance.
- **DO NOT** deactivate the display panel by directly turning off the battery, as such an abrupt power cut may damage the components or shorten their lifespans.
- **DO NOT** disassemble the display panel or modify its internal components.
- **DO NOT** disassemble the control hardware or modify any preconnected wiring.
- **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.

- It is recommended **NOT** to shut off the battery while riding this tricycle, as this may lead to distraction and accidents.
- **DO NOT** focus on the display panel for prolonged periods of time while riding.
- **ALWAYS** turn off the battery between uses. For best results, remove the key from the battery to prevent unauthorized use.

# Safety Information

- **ALWAYS** remove the battery **FULLY** from this tricycle **BEFORE** performing any cleaning, servicing, and storage.
- **NEVER** place the battery near heat sources or explosive or flammable gases.
- **NEVER** expose the battery to radiation or excessive pressure.
- **ONLY** charge the battery in locations with an ambient temperature between 32° and 113°F (0–45°C).
- **NEVER** disassemble or modify the battery.
- **ONLY** use the provided charger with the battery.
- **NEVER** get the charger wet or operate it 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

<b>Motor Power</b>		350 W	
<b>Display Panel</b>	<b>Type</b>	Liquid Crystal Display (LCD)	
	<b>Weatherproof Rating</b>	IPX5	
<b>Battery</b>	<b>Type</b>	36 V Lithium	
	<b>Weatherproof Rating</b>	IPX4	
	<b>Operational Temp. Range</b>	-4 to 140°F	-20 to 60°C
	<b>Charging Temp. Range</b>	32 to 113°F	0 to 45°C
	<b>Optimal Storage Temp. Range</b>	-4 to 77°F	-20 to 25°C
<b>Weight Capacity</b>	<b>Rear Basket</b>	110 lb.	50 kg
	<b>Total</b>	330 lb.	150 kg
<b>Rider Height Range</b>		5.3 to 5.9 ft.	160 to 180 cm
<b>Max. Speed</b>		15.5 mph*	25 km/h*
<b>Max. Travel</b>		31 mi.**	50 km**
<b>Tires</b>	<b>Type</b>	24×1.95 or 26×1.95 in.	
	<b>Pressure Range</b>	40–65 psi (2.8–4.5 bar)	

\* Based on unloaded wheel rotation at full power without friction

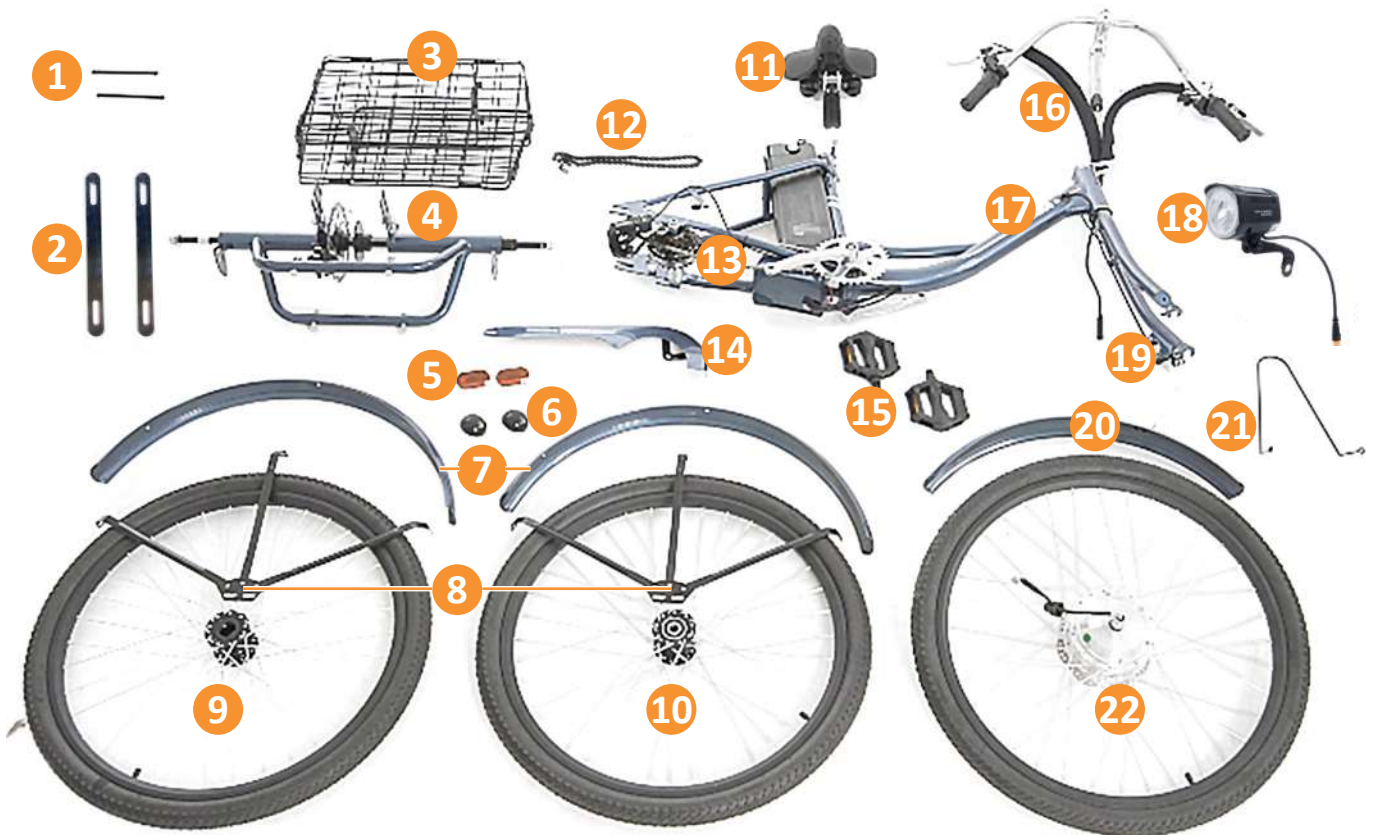
True maximum speed will vary according to variables such as battery strength and load but should remain ±1 mph of the preset value.

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



# Product Diagram

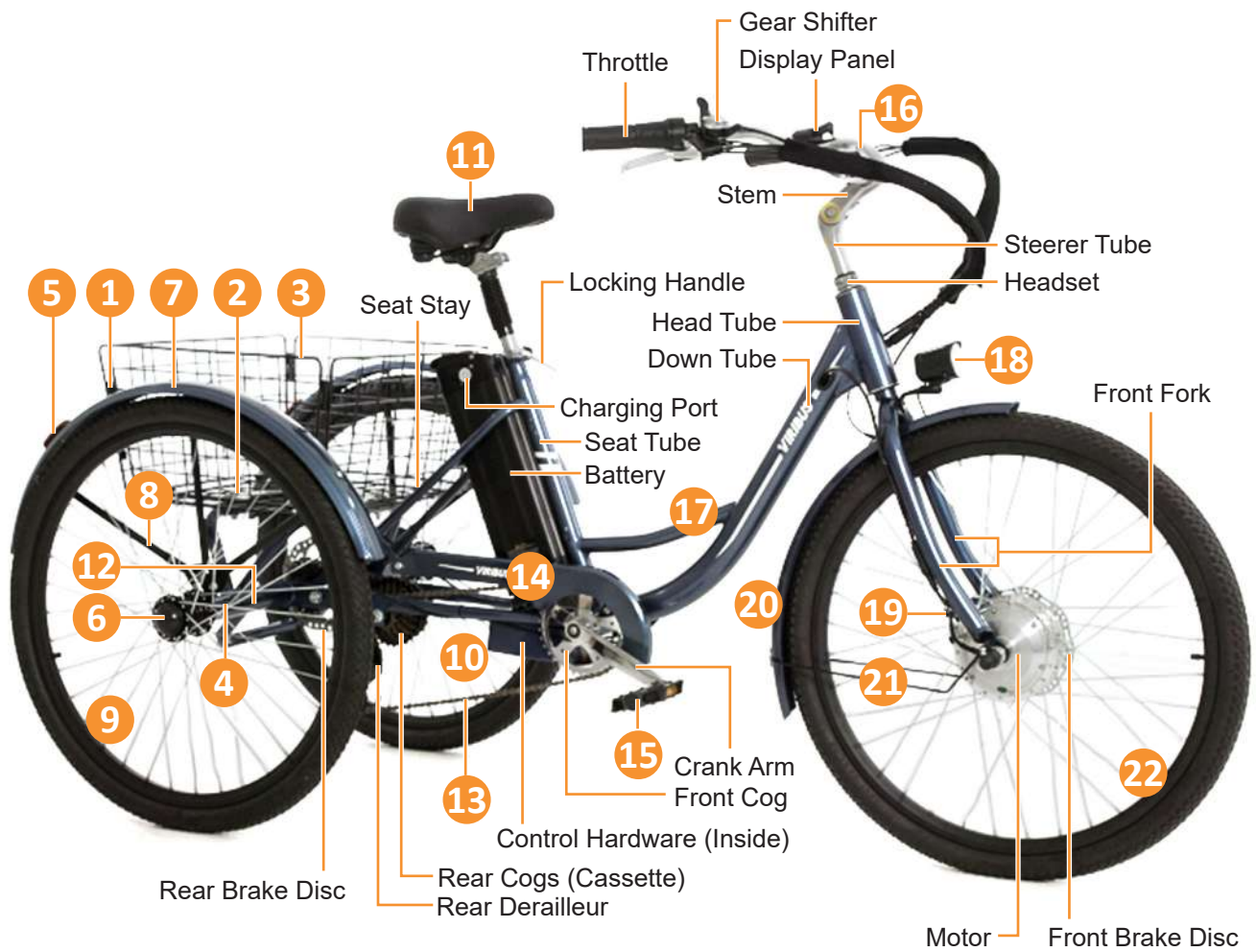
## Main Parts



Item	Name	Qty.
1	Locking Pins	2
2	Slats	2
3	Rear Basket Frame	1
4	Rear Frame with Rear Brake Disc	1
5	Rear Reflectors	2
6	Rear Wheel Caps	2
7	Rear Fenders	2
8	Rear Fender Stays	2
9	Right Rear Wheel with D-Shaped Slot	1
10	Left Rear Wheel with O-Shaped Slot	1
11	Saddle	1
12	Short Chain	1
13	Long Chain	1
14	Chain Guard	1
15	Pedals	2
16	Handlebars with Display Panel, Gear Shifter, and Keys	1
17	Main Frame with Battery, Crankset, and Rear Derailleur	1
18	Front Light	1
19	Front Brake Caliper	1
20	Front Fender	1
21	Front Fender Stay	1
22	Motorized Front Wheel with Front Brake Disc	1



# Product Diagram



## Fasteners (Not Preinstalled)



Item	Name	Usage	Qty.
A	M5×10 Phillips Bolts	Rear Fenders & Stays	6
B	M5 Washers	Rear Fenders & Stays	6
C	M5 Nuts	Rear Fenders & Stays	6
D	M6×16 Phillips Bolts	Rear Fender Stays & Frame	4
E	M6 Washers	Rear Fender Stays & Frame	4
F	M6 Nuts	Rear Fender Stays & Frame	4
G	M5×8 Phillips Bolts	Front Fender & Stay	2
H	Lower Connecting Plate	Front Fender & Stay	1
I	Upper Connecting Plate	Front Fender & Stay	1

# Product Diagram

## Tools

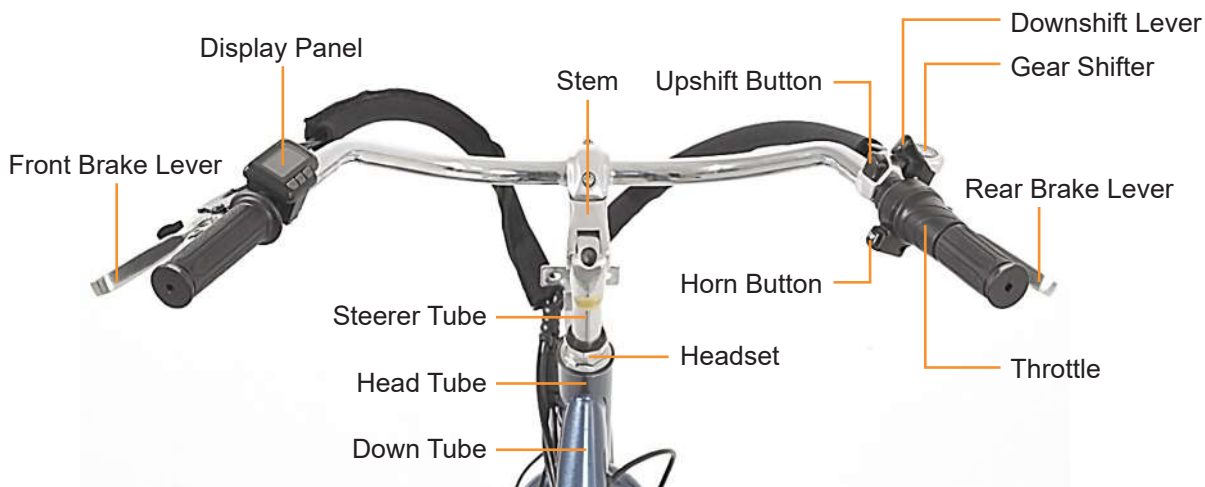


Item	Name	Qty.
J	Charger	1
K	Power Cord	1
L	Dual-Purpose Screwdriver	1
M	Multifunctional Wrench	1
N	18 mm Wrench	1
O	22 mm Wrench	1
P	M4 Hex Wrench	1
Q	M5 Hex Wrench	1
R	M6 Hex Wrench	1

### Not Included but Helpful

- Work Gloves
- Goggles
- Pliers

## Handlebars



# Product Diagram

## Display Panel



<b>Control Buttons</b>	⏻	Toggles the variable display when pressed.
		Turns on/off the display panel when held.
	+	Increases the pedal assist level when pressed.
		Turns on/off the front light when held.
-	Decreases the pedal assist level when pressed.	
	Activates push assist control when held.	
<b>Display Areas</b>	<b>Speed</b>	Shows the current speed in mph.
	<b>PAS Level</b>	Shows the current pedal assist level (0 to 5).
	<b>Battery Power</b>	Shows the remaining battery power level (0%, 20%, 40%, 60%, 80%, or 100%).
	<b>Variable Display</b>	Shows your total distance traveled ( <b>ODO</b> ), current trip distance ( <b>TRIP</b> ), battery's voltage ( <b>VOL</b> ), and length of operating time ( <b>TI</b> ).
<b>Icons</b>	🔦	Appears when the front light is on.
	⚙️	Appears when the motor malfunctions.
	⚠️	Appears when the brake levers are pressed.
	🏍️	Appears when throttle control malfunctions.
	🔧	Appears when the control hardware malfunctions.

# Preparation

1. Prepare your work area for assembly, ensuring that it is spacious, clean, and well-lit.

For best results, remove any objects that will not be used for assembly and restrict access to the area with prominent signs or barriers.

 **Warning**

*Cluttered or dark areas may invite accidents.*

2. Carefully unpack your new tricycle and check that nothing is missing or has been damaged in transit.

If necessary, ask your local dealer or contractor for supplements or replacements.

Besides, storing your original packaging through the warranty period will speed returns if any are needed.

 **Warning**

- *Riding with missing or broken parts is dangerous and **WILL** pose a series of safety hazards.*
- ***DO NOT** allow children or pets to play with **ANY** packaging materials and **ANY** tricycle parts, fasteners, or tools without constant supervision.*

3. Put on appropriate hand and eye protection.

Work gloves and goggles (not included) are strongly recommended.

 **Warning**

*If necessary, ask one or more persons for assistance **BUT** remember to have everyone don equivalent personal protective equipment.*

# Assembly

## Warning

- **DO NOT** unfasten the keys from the handlebars and use them to turn on the preinstalled battery during assembly.
- Complete assembly **BEFORE** activating the battery.
- For best results, remove the battery from the main frame **BEFORE** assembly.

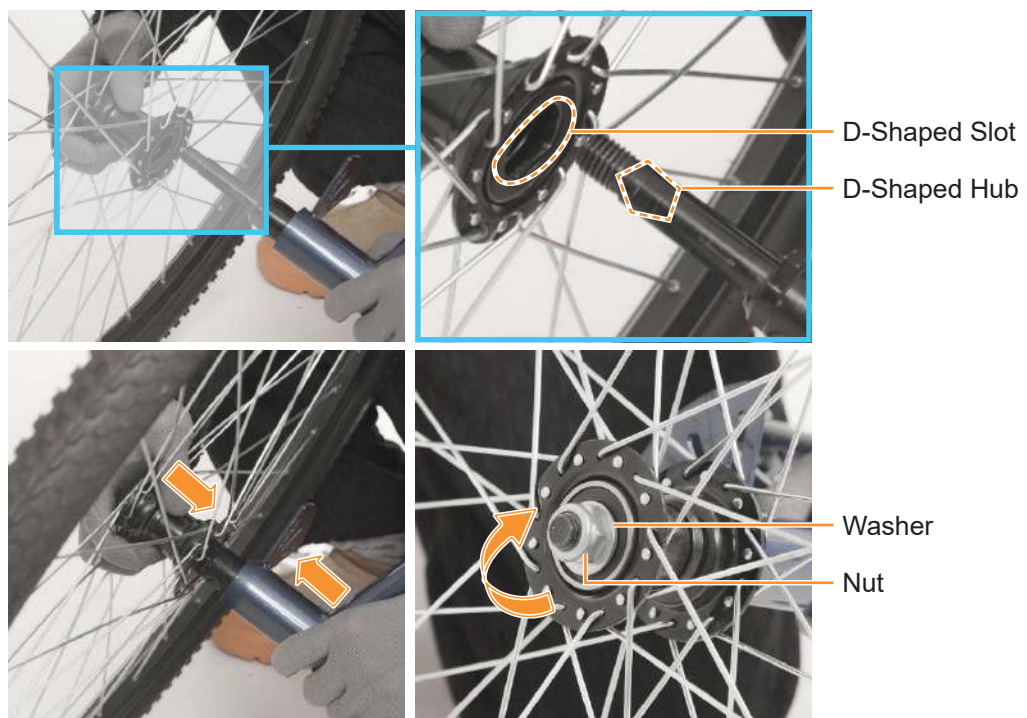
To see these instructions in video form, go to our **YouTube** channel **Viribus Bikes** and search for “**Viribus Electric Tricycle, ABE-L1AB/M1AB**”

## Installing the Rear Wheels

**Important:** The two rear wheels **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.
- The wheel with the O-shaped slot goes with the O-shaped hub on the left side of the rear axle.

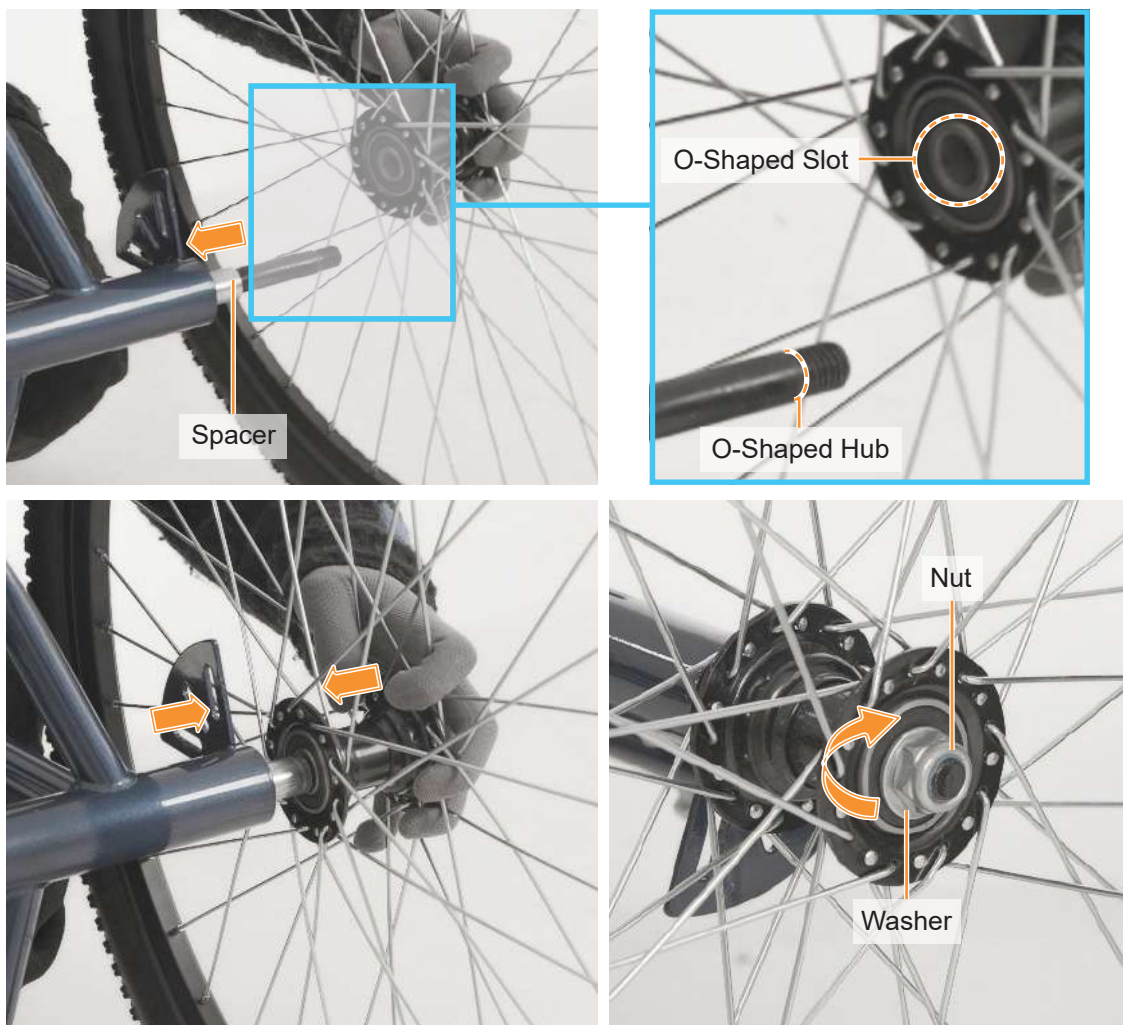
1. Disconnect the protective covers from the axles of the rear frame (4).
2. Remove the nut and washer from the D-shaped hub on the right side.
3. Connect the wheel with the D-shaped slot (9) to the D-shaped hub.
4. Replace the washer and nut, tightening the nut with the 22 mm wrench (O).





# Assembly

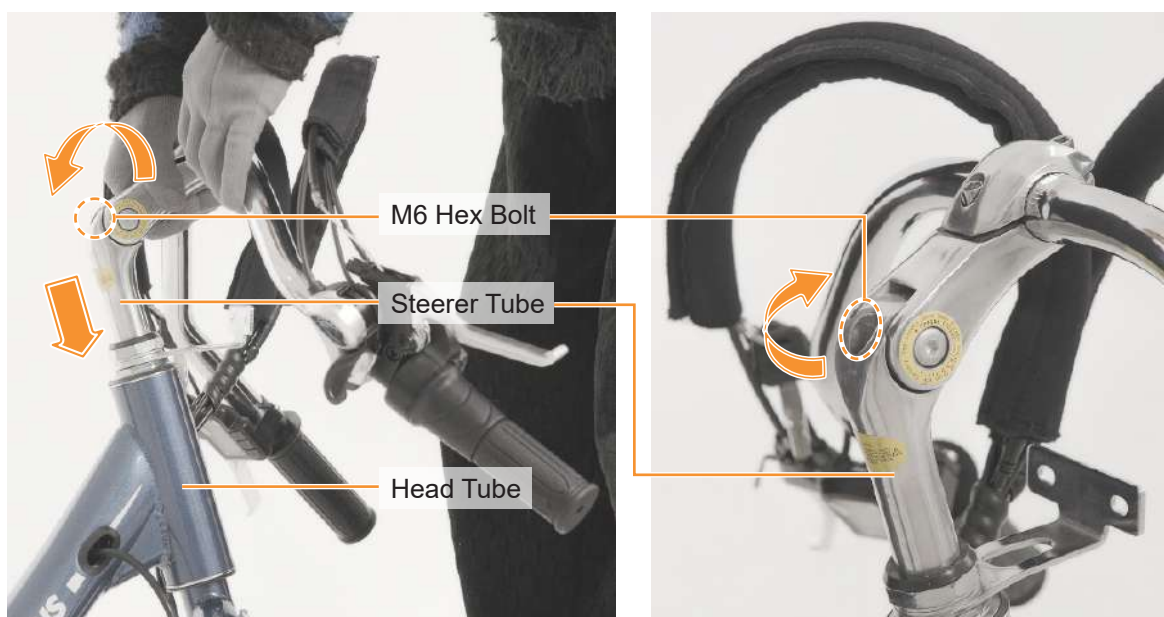
5. Remove the nut and washer from the O-shaped hub on the left side.
6. Slide the spacer inwards as shown.
7. Connect the wheel with the O-shaped slot (10) to the O-shaped hub.
8. Replace the washer and nut, tightening the nut in the same fashion.



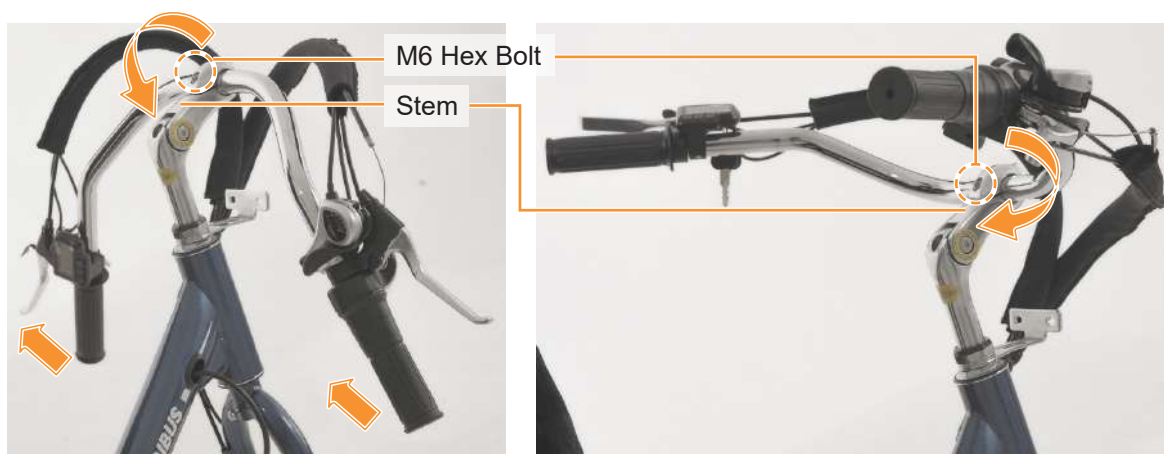
# Assembly

## Installing the Handlebars

1. Remove the protective cover underneath the steerer tube of the handlebars (16).
2. Loosen the bolt at the top of the steerer tube with the M6 hex wrench (R).
3. Slide the steerer tube into the head tube of the main frame (17) until your desired height is reached.
4. Retighten this top bolt to lock the steerer tube into place.



5. Loosen the bolt at the top of the stem in the same fashion.
6. Raise the handlebars to your preferred position.
7. Retighten this top bolt until the stem is locked completely.





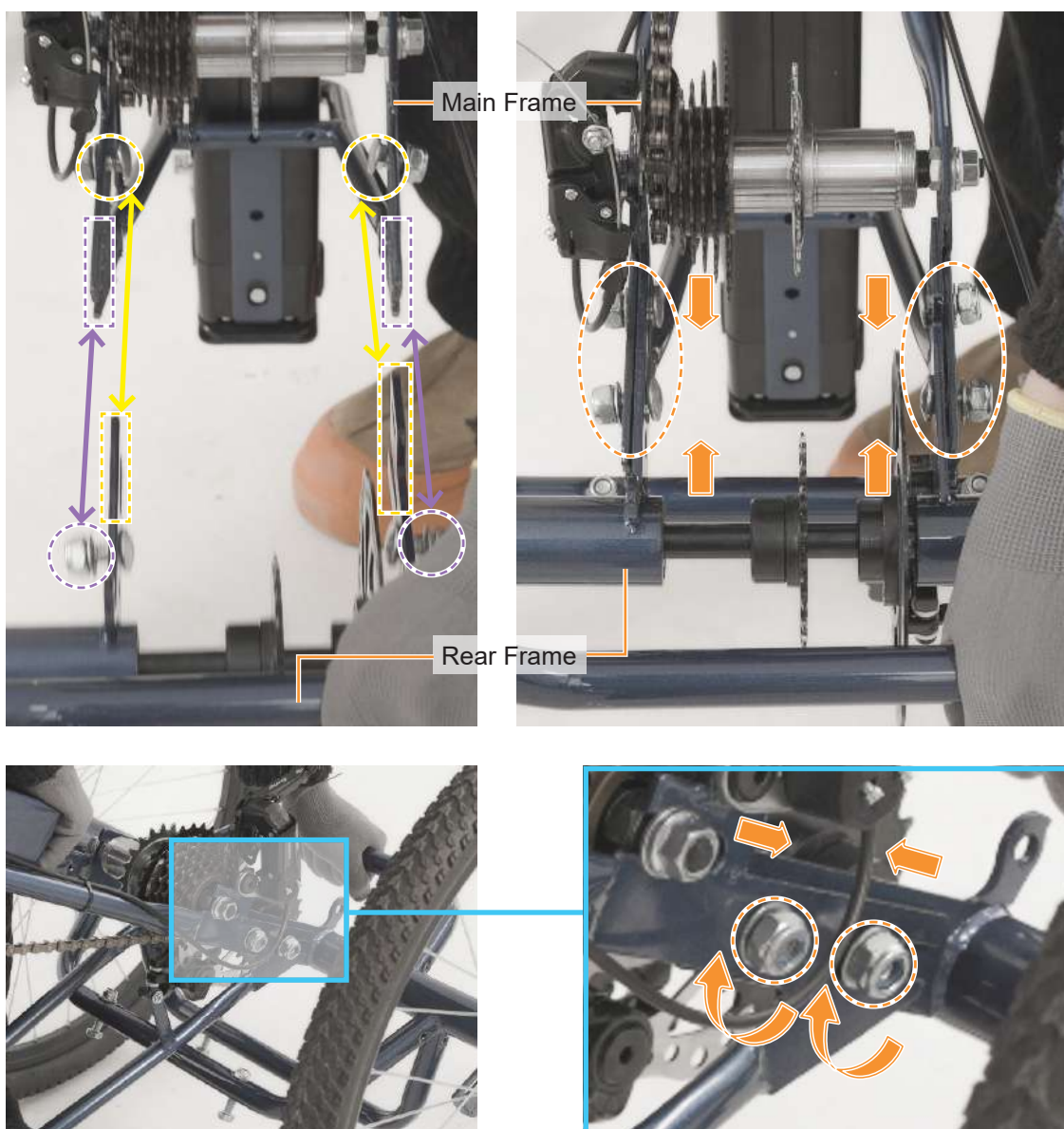
# Assembly

## Connecting the Rear and Main Frames

1. Turn the rear and main frames upside down.
2. Loosen the nuts and bolts on both sides of the main frame's tail and the rear frame's head.
3. Align the slots and bolts on the main frame with the bolts and slots on the rear frame.
4. Slide the main frame onto the rear frame as shown.

For best results, start with either side and repeat for the other side.

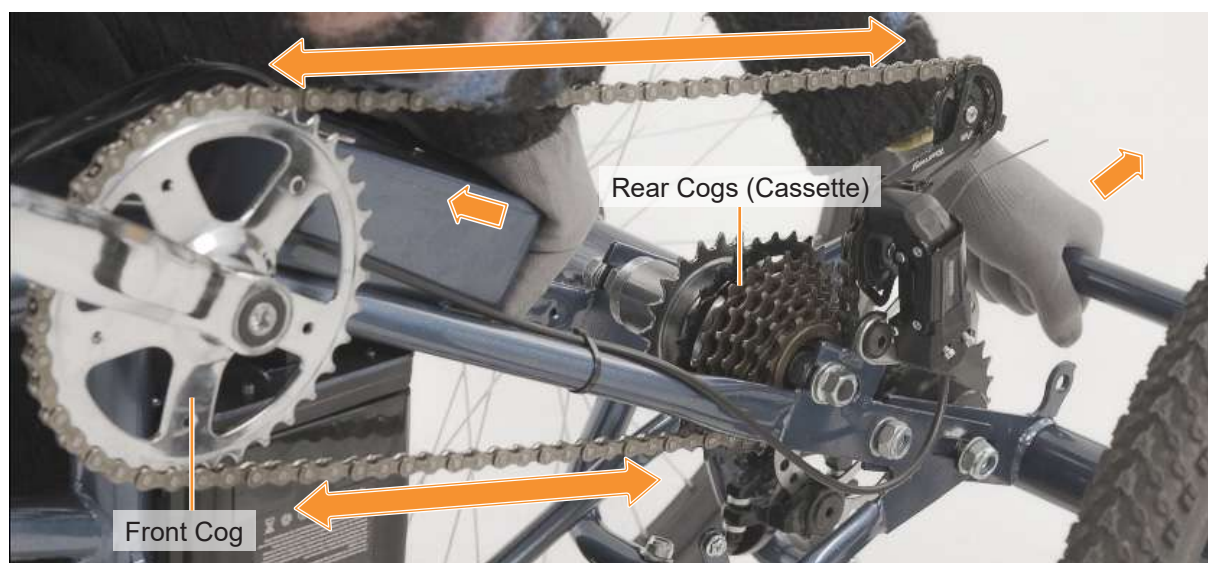
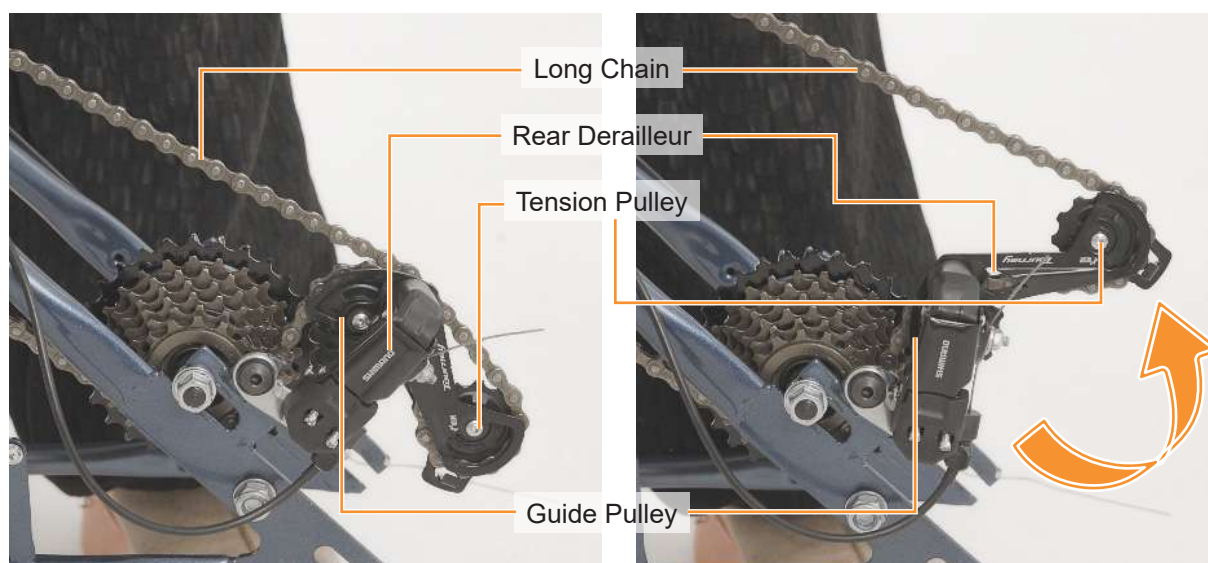
5. Partially retighten all the nuts on the bolts that connect the two frames by hand. (Fully tighten them later after chain installation.)



# Assembly

## Installing the Long Chain

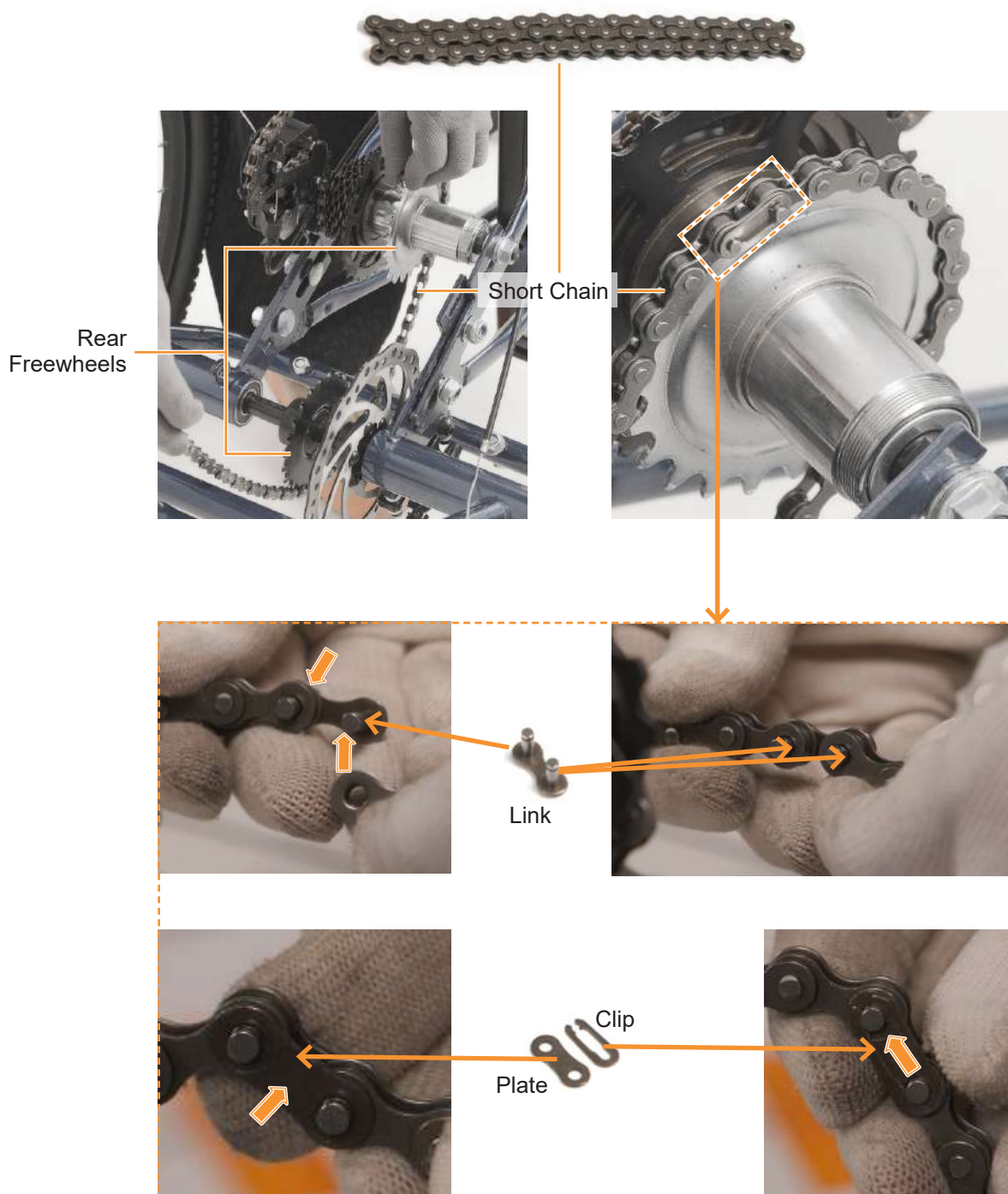
1. Raise the tension pulley on the rear derailleur.
2. Arrange the long chain (13) in an S shape, ensuring that the chain remains well fitted on both pulleys of the derailleur and one rear cog of the cassette.
3. Place the other end of the chain around the front cog as shown.
4. Pull the rear and main frames in opposite directions until the long chain becomes straight but **NOT** overtight.



# Assembly

## Installing the Short Chain

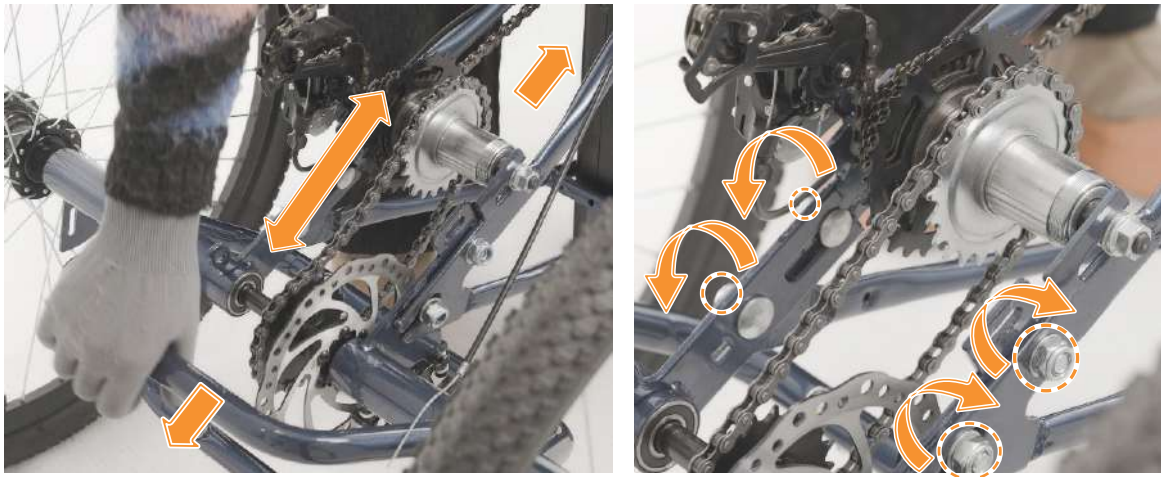
1. Find the short chain (12) and its three joint parts including a link, plate, and clip.
2. Place the short chain around the two rear freewheels.
3. Use the link and plate to join both ends of the chain, jamming the link pins into the slots.
4. Push the clip onto the link pins, using pliers (not included) if needed.





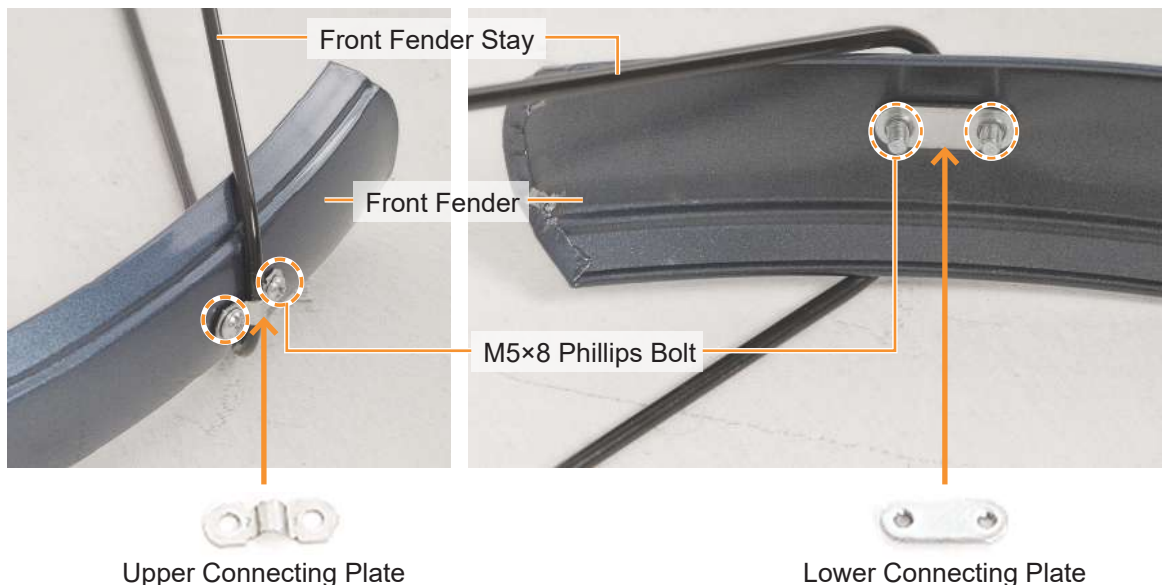
# Assembly

5. Pull the rear and main frames in opposite directions again until the short chain is taut but **NOT** overtight.
6. Tighten the nuts and bolts that connect the two frames completely with the multifunctional wrench (M).
7. Rotate the adjacent crank arm, testing that both the long and short chains move freely.



## Connecting the Front Fender Stay to the Front Fender

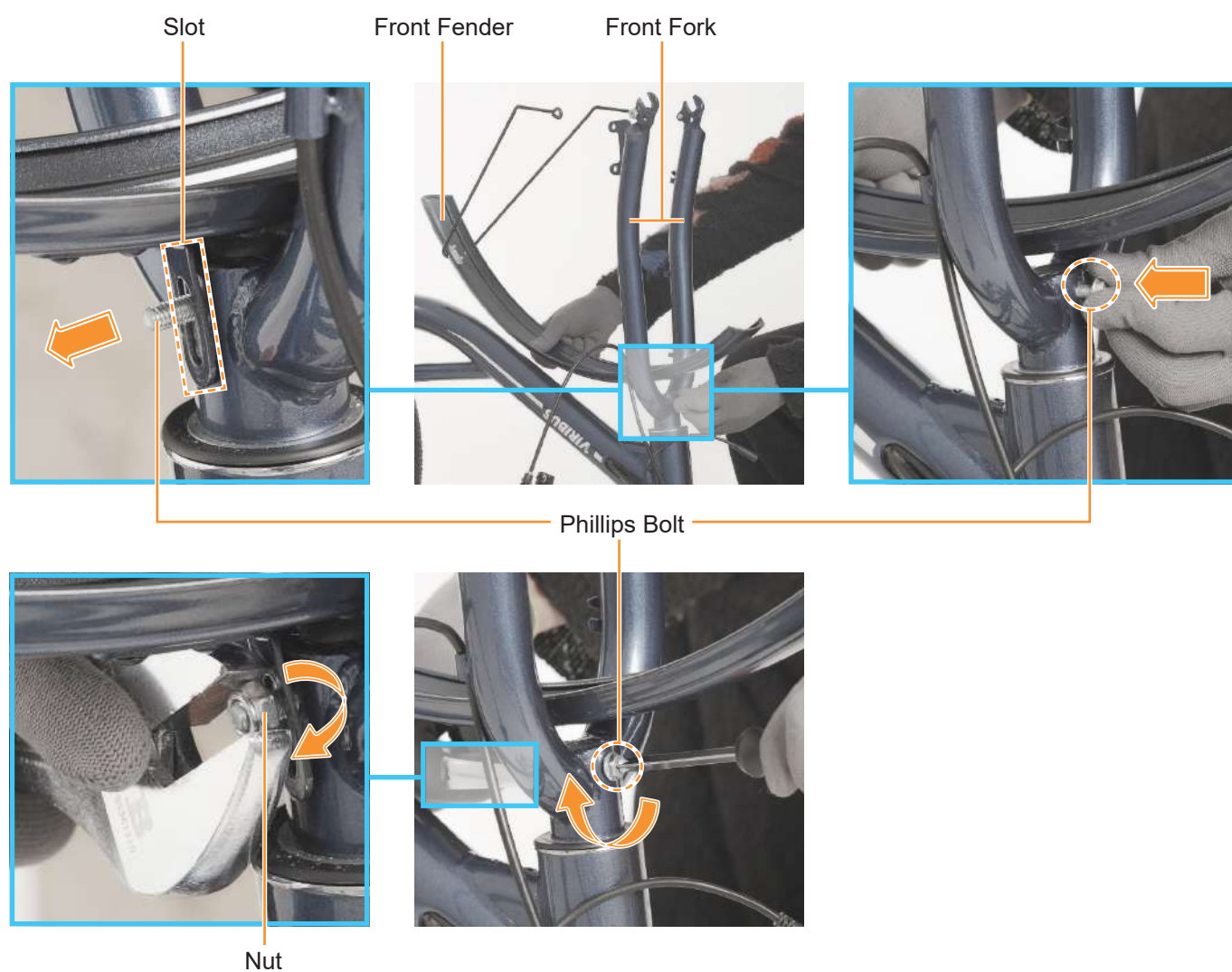
1. Mount the front fender stay (21) between the two holes on the external surface of the front fender (20).
2. Use the upper connecting plate (I) and M5×8 Phillips bolts (G) to attach the fender stay to the fender.
3. Connect the lower connecting plate (H) to these bolts at the fender's internal surface.
4. Tighten the bolts with the dual-purpose screwdriver (L) to secure the fender stay to the fender.



# Assembly

## Connecting the Front Fender to the Front Fork

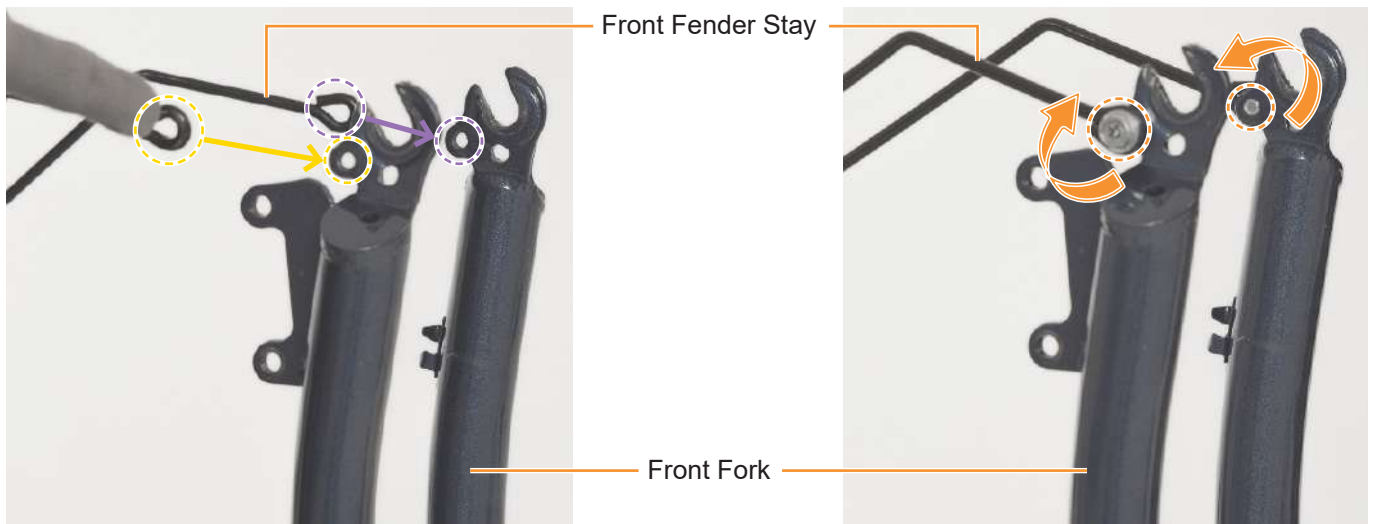
1. Remove the nut and Phillips bolt from the top of the front fork with the multifunctional wrench and dual-purpose screwdriver.
2. Pass the front fender through the front fork as shown.
3. Align the slot of the fender with the bolt hole left on the fork.
4. Replace and tighten the removed bolt and nut to secure the fender to the fork.



# Assembly

## Connecting the Front Fender Stay to the Front Fork

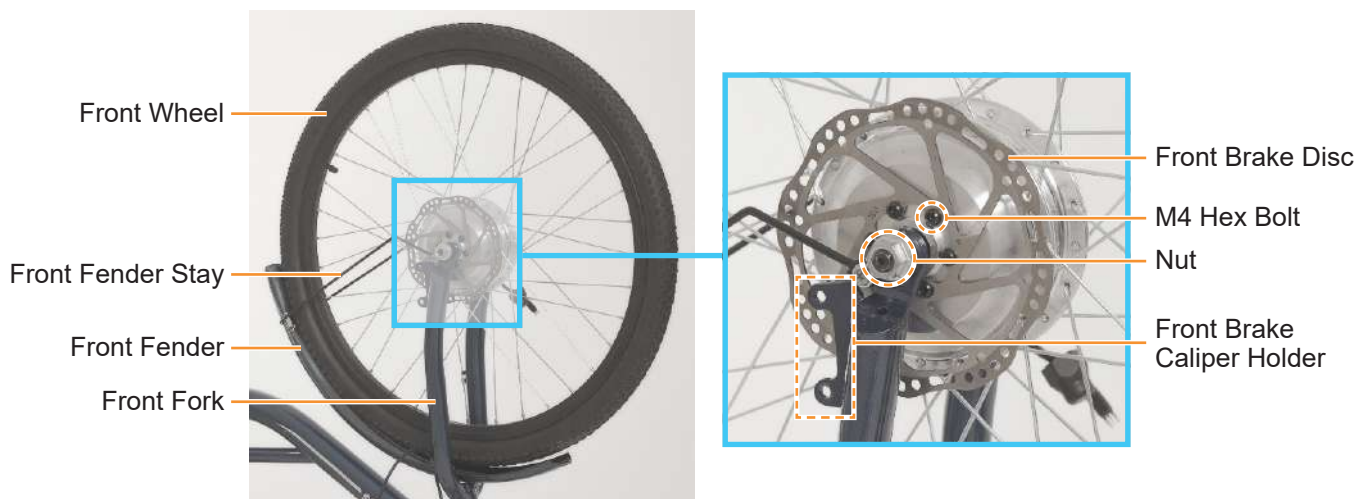
1. Loosen the locking bolts on the protective bar between the front fork and then remove the bar from the fork.
2. Remove the Phillips bolts from the fork tips with the dual-purpose screwdriver.
3. Align the feet of the front fender stay with the bolt holes left on the fork tips.
4. Replace and tighten these bolts to secure the fender stay to the fork.



## Installing the Front Wheel

1. Loosen the nuts on both sides of the motorized front wheel (22).
2. Fit the wheel into the front fork, fender, and stay, allowing its axle to be snugly held by the fork tips and placing the front brake disc at the same side of the front brake caliper holder on the fork.
3. Retighten the nuts with the 18 mm wrench (N) to secure the wheel to the fork.
4. Check that the brake disc remains secure around the front wheel hub.

If it comes loose, tighten its six locking bolts with the M4 hex wrench (P).

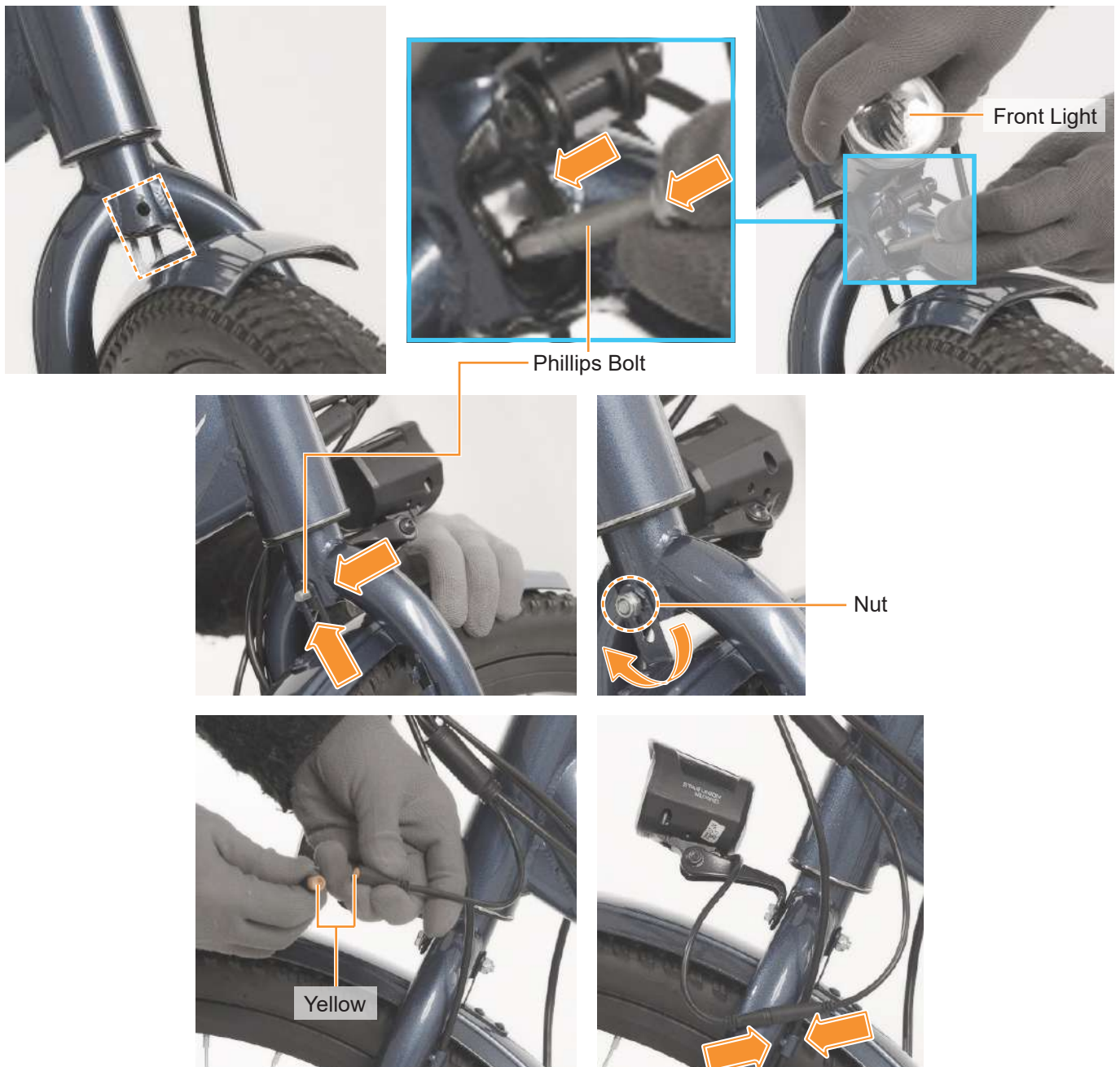




# Assembly

## Installing the Front Light

1. Turn the tricycle frame right side up slowly and carefully.  
Seek help from one or more persons if necessary.
2. Remove the nut and Phillips bolt at the top of the front fork again.
3. Place the front fender on the front wheel.
4. Position the mount of the front light (18) against the bolt hole left on the front fork's top.
5. Lift the fender, aligning its slot with the bolt hole and light's mount.
6. Replace and tighten the bolt and nut until the light is locked in place.
7. Connect the light's yellow-banded cable to the identically colored cable from the handlebars as shown.

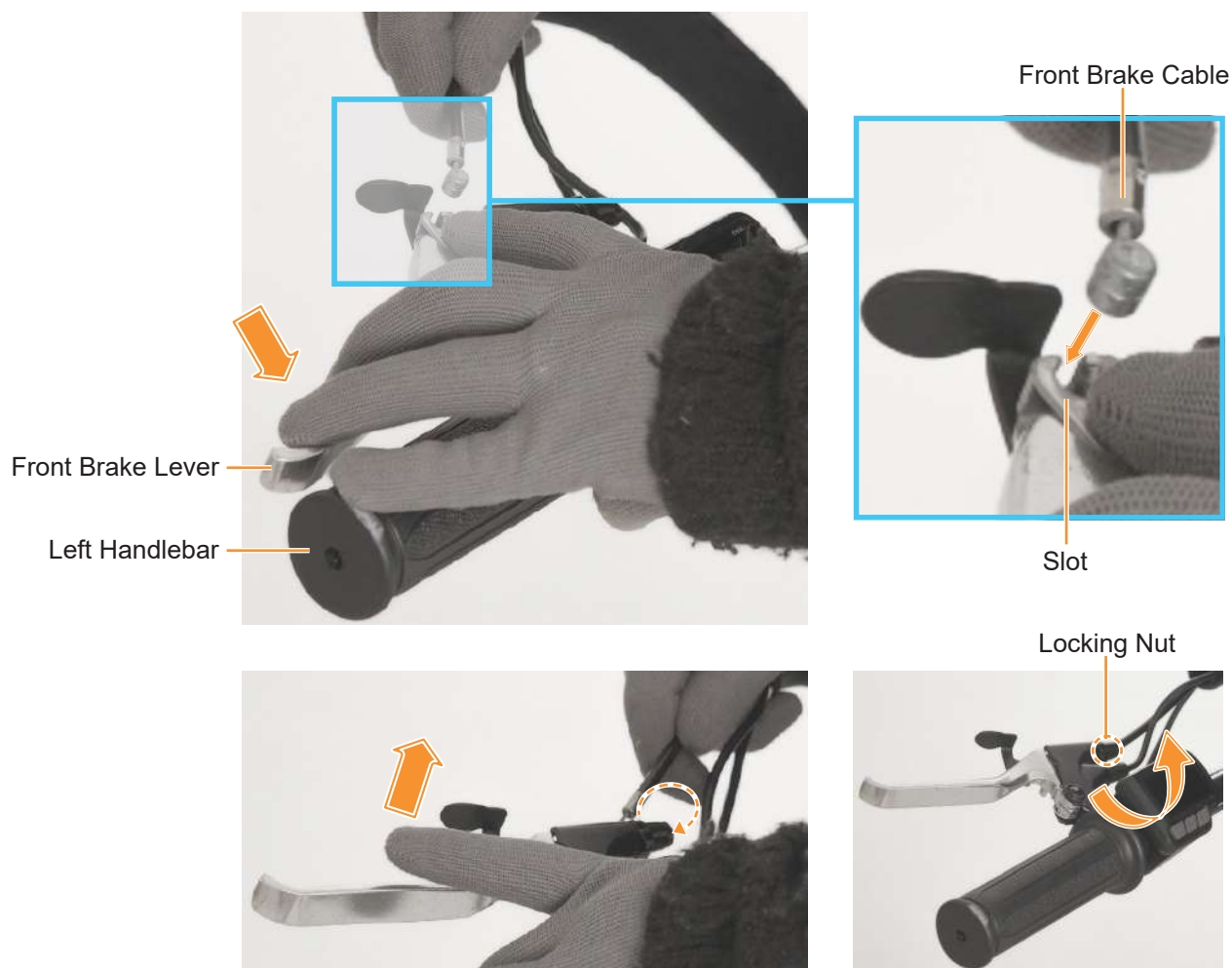




# Assembly

## Feeding the Front Brake Cable

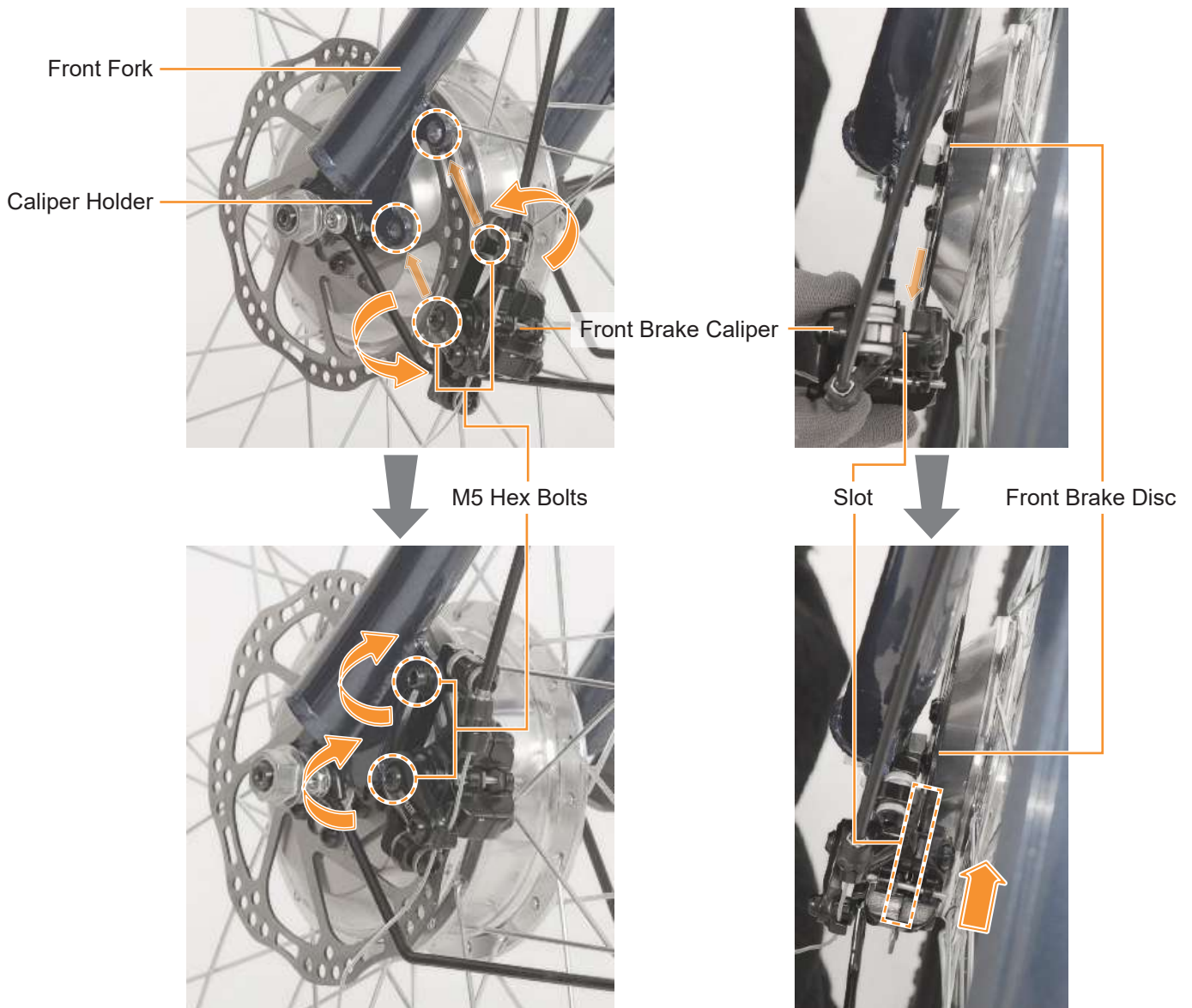
1. Find the front brake cable located at the left side of the tricycle frame.
2. Loosen the locking nut of the front brake lever on the left handlebar.
3. Press and hold this lever, inserting the cable's round metal head into the slot as shown.
4. Release the lever and pass the cable through its locking nut.
5. Feed the cable's black outer casing into the locking nut.
6. Retighten the locking nut until the cable is secure to the lever.



# Assembly

## Installing the Front Brake Caliper

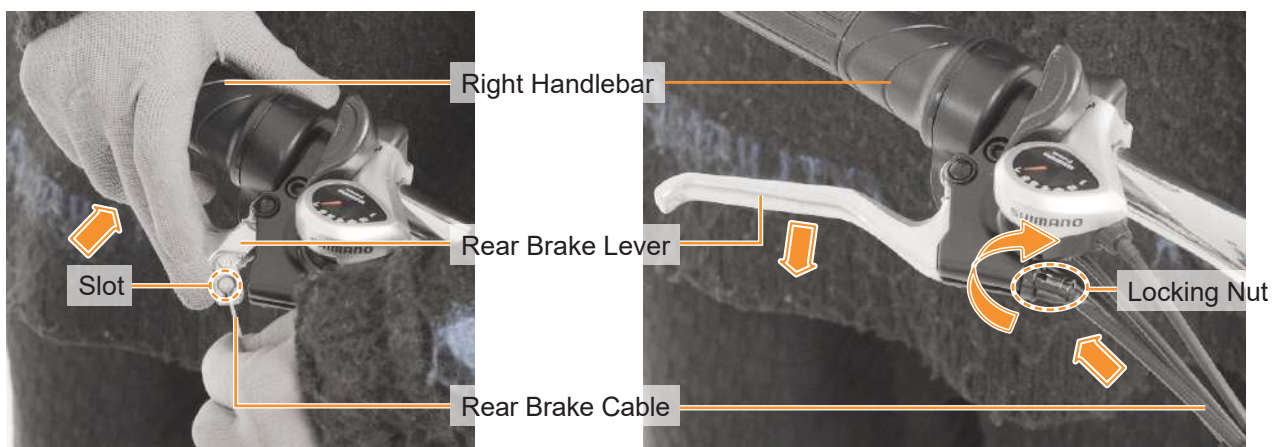
1. Unscrew the two hex bolts from the front brake caliper (19) preconnected to the front brake cable.
2. Fit the caliper onto its holder at the front fork's left side, jamming the front brake disc into its slot as shown.
3. Align the caliper's bolt holes with those on its holder.
4. Replace the hex bolts onto the caliper.
5. Tighten these bolts with the M5 hex wrench (Q) until the caliper is locked in place.
6. Press the front brake lever on the left handlebar, testing that this caliper works smoothly.



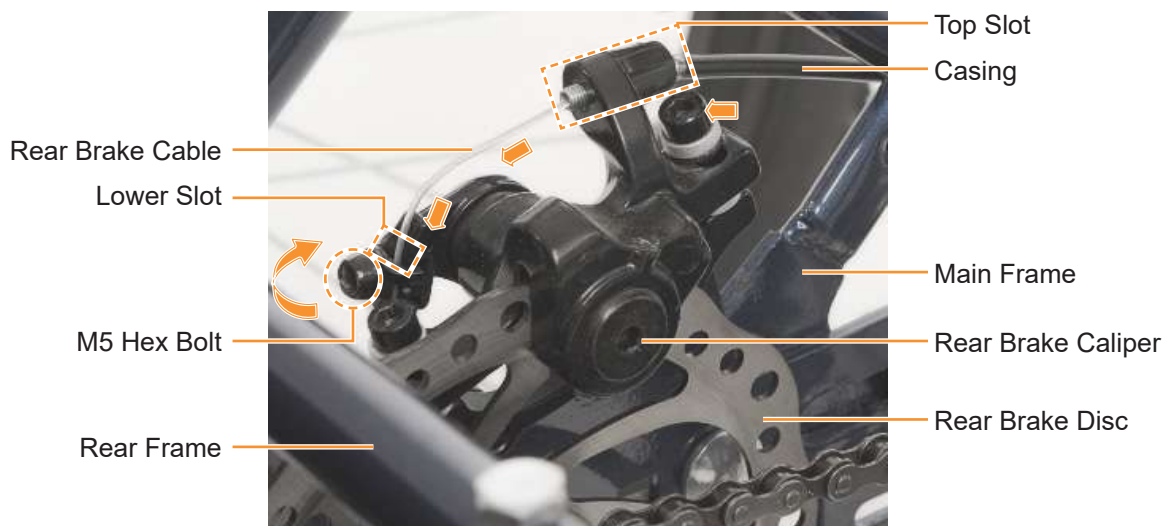
# Assembly

## Feeding the Rear Brake Cable

1. Find the rear brake cable located at the right side of the tricycle frame.
2. Loosen the locking nut of the rear brake lever on the right handlebar.
3. Press and hold this lever, inserting the cable's round metal head into the slot as shown.
4. Release the lever and pass the cable through its locking nut.
5. Feed the cable's black outer casing into the locking nut.
6. Retighten the locking nut to secure the cable to the lever.



7. Go to the main frame's tail, finding the other end of the rear brake cable.
8. Pass the cable through the upper slot on the rear brake caliper.
9. Slide the cable's black outer casing into the top slot.
10. Feed the cable through the caliper's lower slot.
11. Pull the cable taut, tightening the locking bolt beside the lower slot with the M5 hex wrench.
12. Test the rear brake by pressing its lever on the right handlebar.



# Assembly

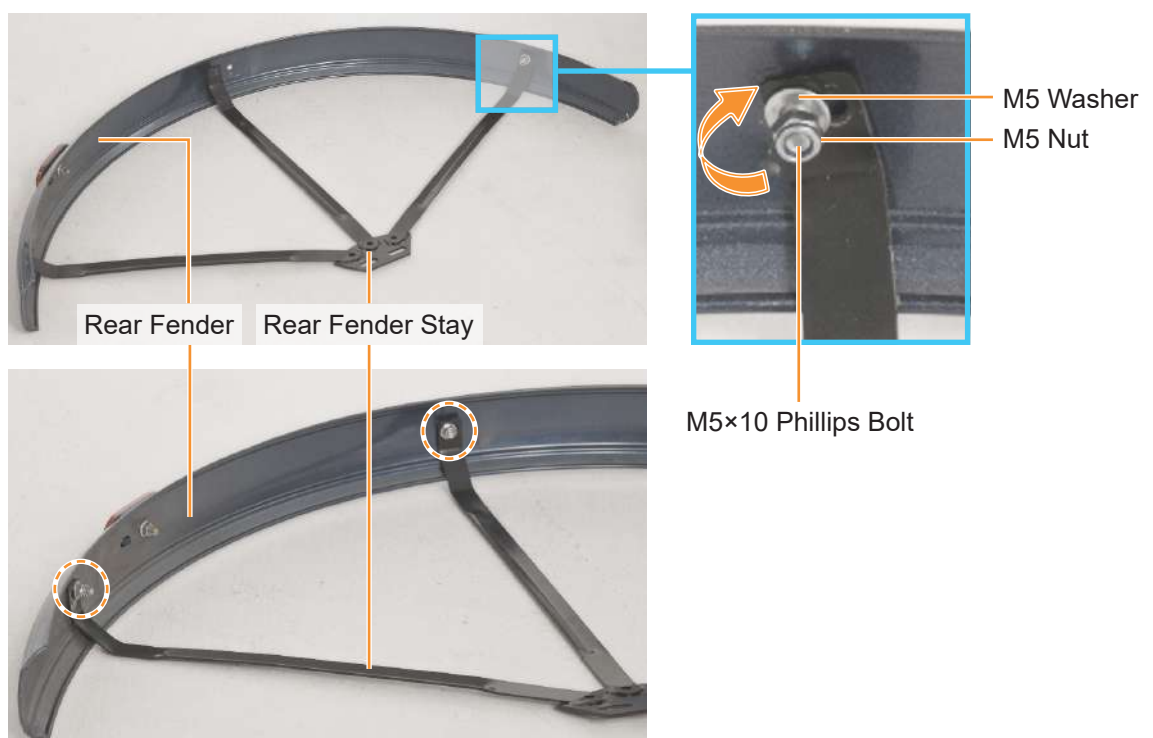
## Installing the Rear Reflectors

1. Remove the nuts from the bolts on the rear reflectors (5).
2. Attach the rear reflectors to the rear fenders (7) using their bolts.
3. Secure these reflectors by replacing their nuts.
4. Tighten the nuts, using your pliers for best results.



## Installing the Rear Fenders

1. Align either rear fender with one head of either rear fender stay (8) in the position as shown.
2. Attach a set of M5×10 Phillips bolt (A), M5 washer (B), and M5 nut (C) to connect this head to the fender.
3. Tighten the bolt and nut with the dual-purpose screwdriver and multifunctional wrench.
4. Repeat these steps for other two heads to install this fender to its stay.
5. Install the other rear fender to the remaining stay in the same fashion.

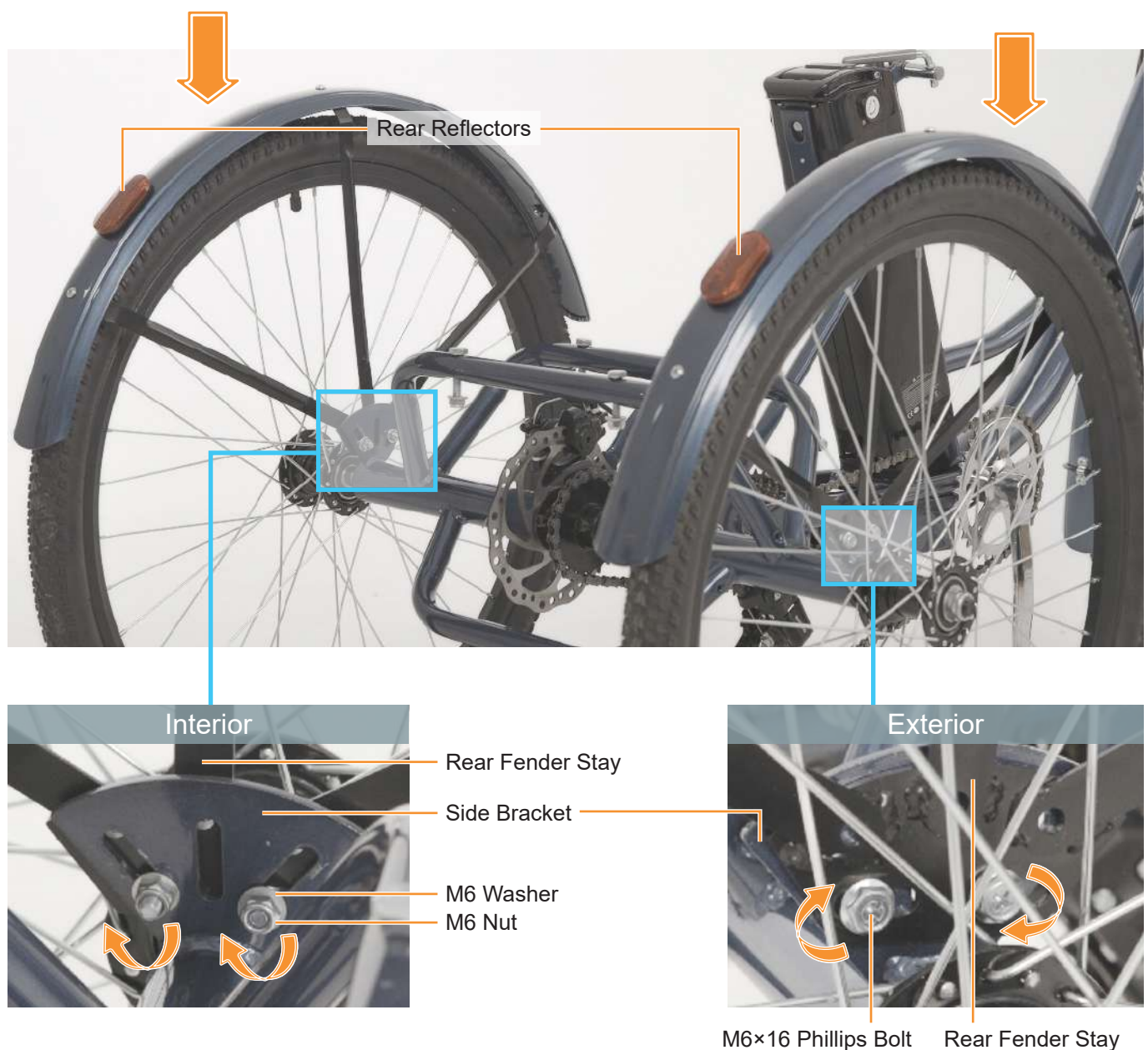




# Assembly

## Installing the Rear Fender Stays

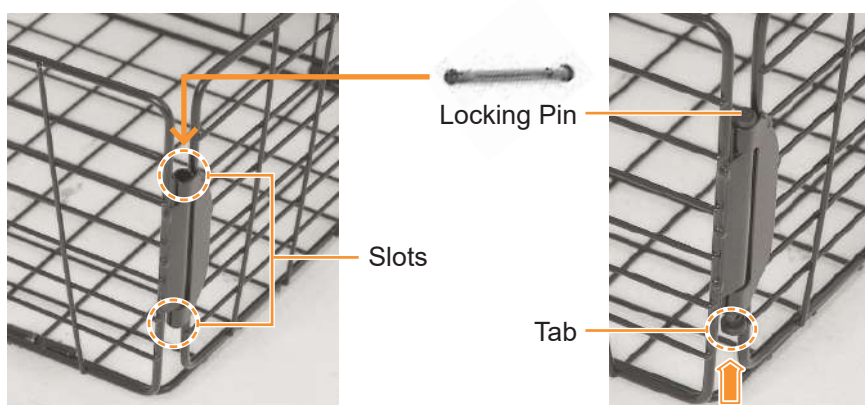
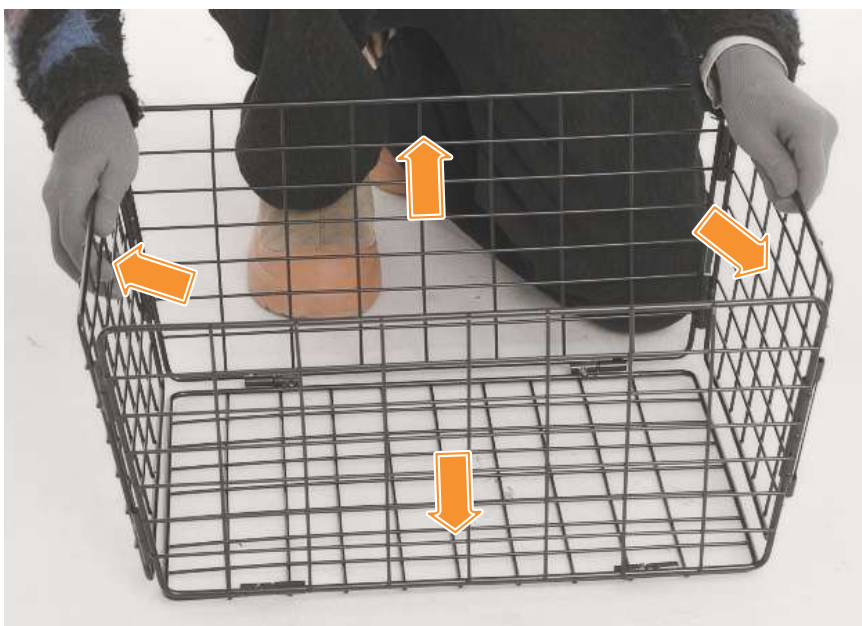
1. Fit the rear fenders over the rear wheels, with their reflectors facing backwards.
2. Align the rear fender stays with the side brackets on the rear frame, taking care **NOT** to allow the stays to touch the wheel tires or rims.
3. Attach the M6×16 Phillips bolts (D), M6 washers (E), and M6 nuts (F) to connect these stays to the brackets.
4. Tighten the bolts and nuts with the dual-purpose screwdriver and multifunctional wrench.



# Assembly

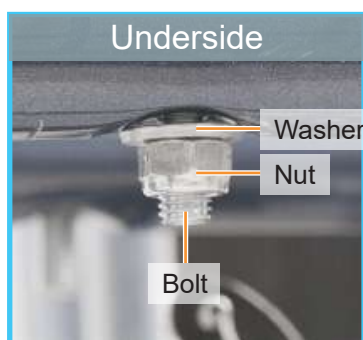
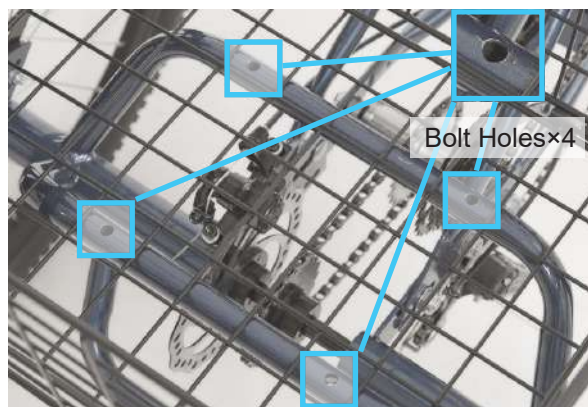
## Installing the Rear Basket

1. Pull the tabs away from the provided locking pins (1) and place them nearby.
2. Unfold the rear basket frame (3) and align the slots on the edge of each side.
3. Connect the sides by inserting the locking pins into the slots.
4. Replace the tabs onto the locking pins, pushing until they become secure.



# Assembly

5. Remove the four sets of nuts, washers, and bolts preinstalled on the rear frame.
6. Fit the rear basket onto the top of the rear frame.
7. Place the slats (2) into the rear basket where their bolt holes are aligned with those on the rear frame.
8. Replace these fasteners, tightening the nuts with the multifunctional wrench.



## Installing the Rear Wheel Caps

1. Attach the rear wheel caps (6) to the rear wheel hubs.
2. Press these caps hard until they are locked in place.

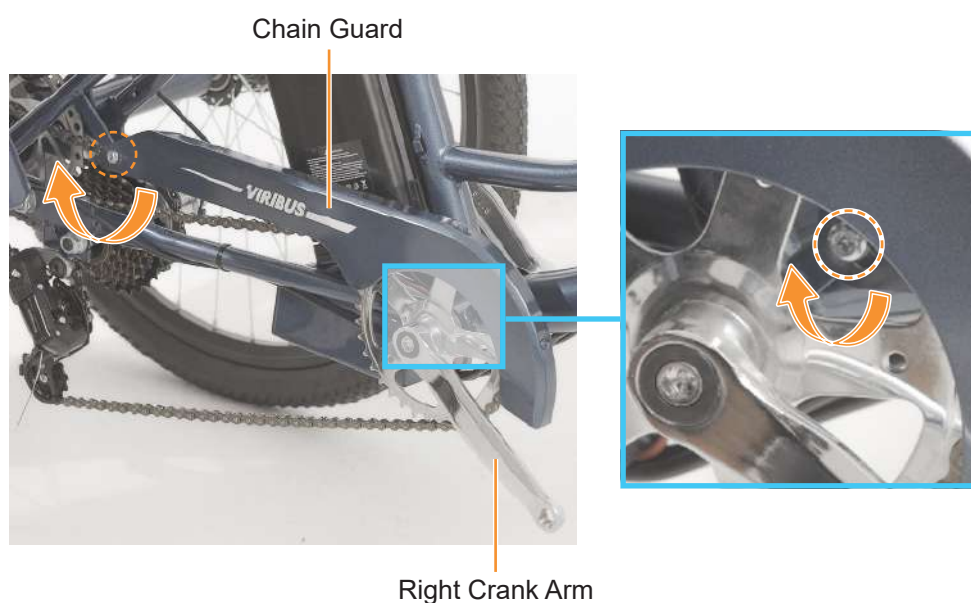
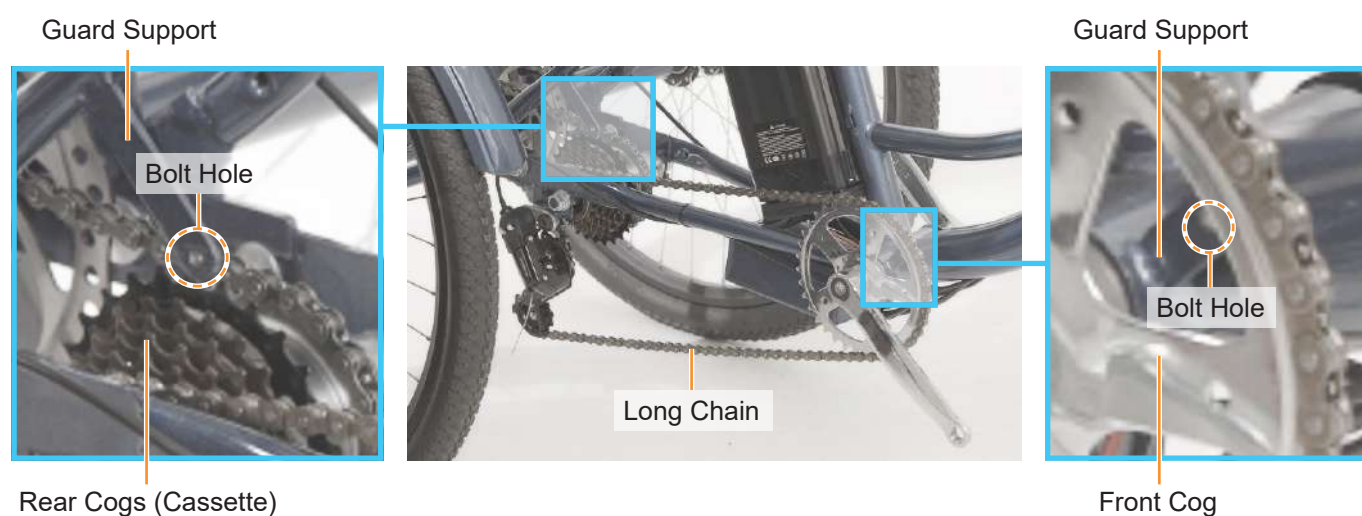




# Assembly

## Installing the Chain Guard

1. Remove the two Phillips bolts preinstalled on the guard supports near the front and rear cogs with the dual-purpose screwdriver.
2. Place the chain guard (14) onto its supports and over the long chain as shown.
3. Aligning the bolt holes, replace and tighten the removed bolts to secure the guard.
4. Rotate the right crank arm to confirm that the chain does **NOT** rub against the guard.  
If it does, readjust the guard so that the chain can move freely.

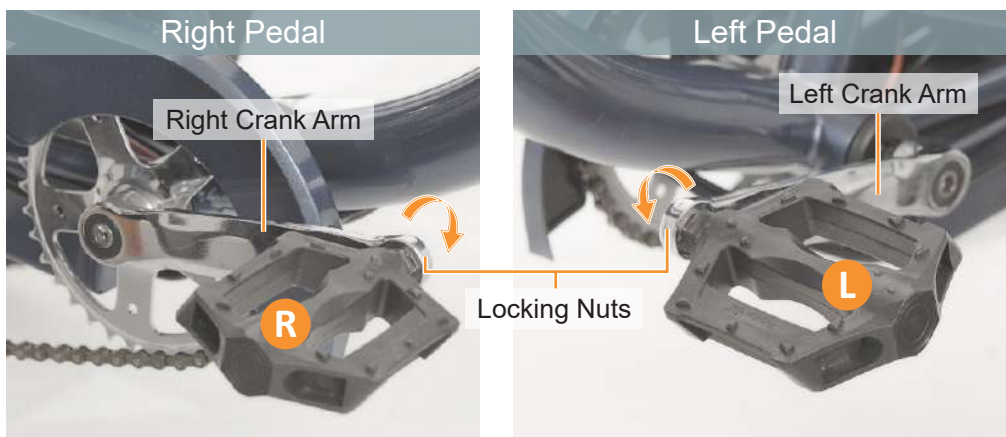


# Assembly

## Installing the Pedals

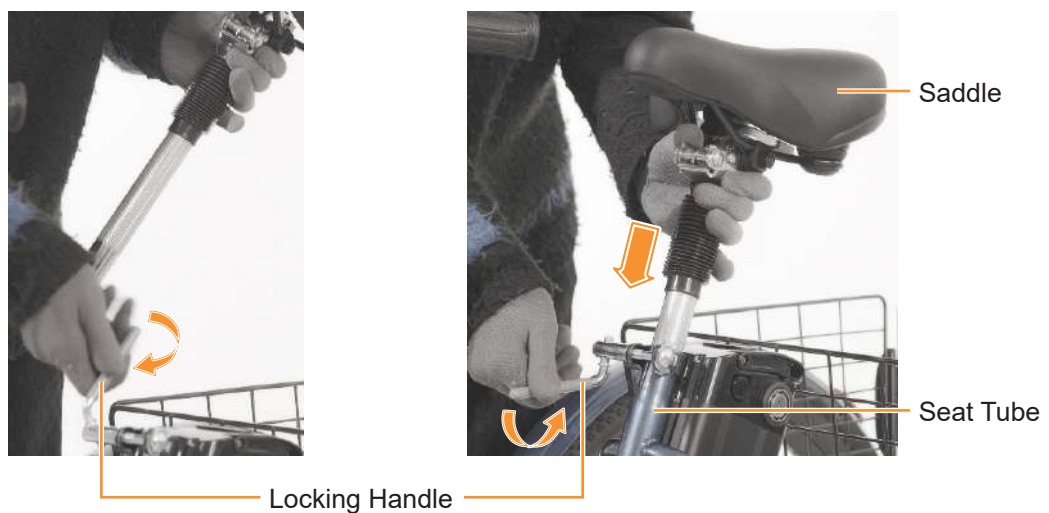
**Important:** The two pedals **ARE** different and should **NOT** be mixed up.  
The right pedal is marked with **R** and the left with **L**.

1. Attach the pedals (15) to the crank arms on the appropriate sides, screwing them into place.
2. Use the multifunctional wrench to tighten their locking nuts, turning clockwise for the right pedal and counterclockwise for the left pedal.
3. Test that the chains turn smoothly using the pedals, adjusting as needed.



## Installing the Saddle

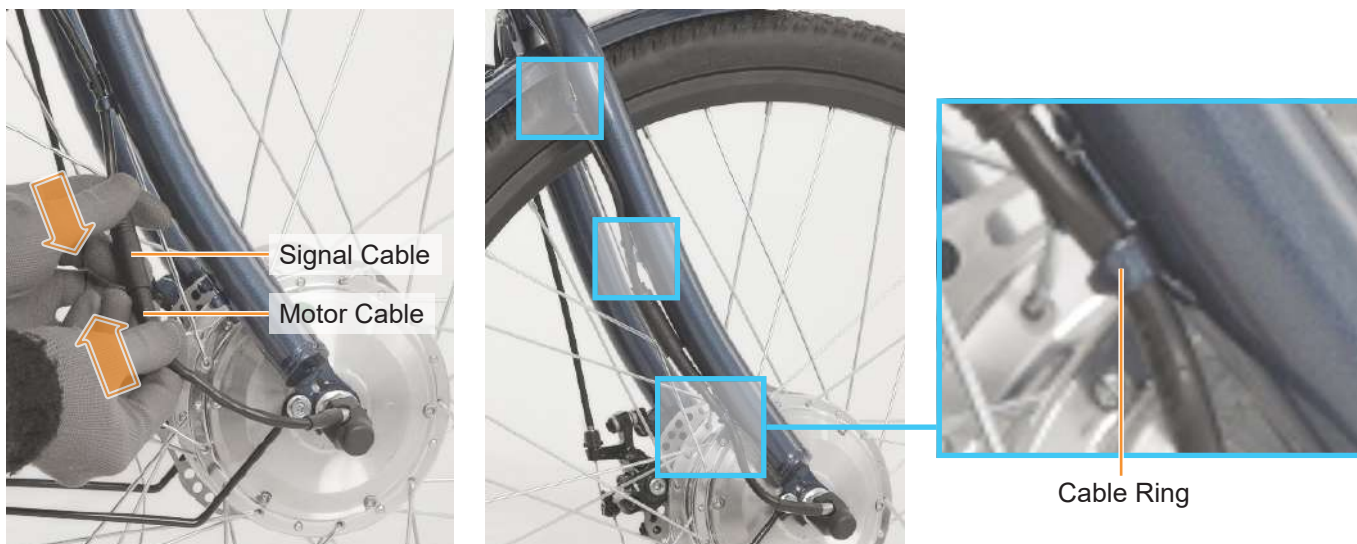
1. Loosen the locking bolt at the top of the seat tube by turning its handle counterclockwise.
2. Insert the post of the saddle (11) into the seat tube until your preferred height is reached.
3. Retighten the locking bolt by turning its handle clockwise.



# Assembly

## Connecting the Motor Cable

1. Slide the motor cable's cap onto the nut at the right side of the front wheel hub.
2. Connect the motor cable to its signal cable from the handlebars.
3. Arrange the cable neatly throughout the rings along the front fork.



# Assembly

## Caution

Remember to take the following **post-assembly actions** to ensure optimal functionality for a safe and enjoyable riding experience. Failure to do so may result in unpleasant riding, property damage, and personal injury.

- Thoroughly check that **ALL** components and fasteners **ARE** undamaged and securely attached.

Pay special attention to the frame connections, handlebars, chains, pedals, and wheels.

- Press the left and right sides of each wheel tire by hand.

If any tire feels soft rather than firm, reinflate it to 40–65 psi (2.8–4.5 bar). **DO NOT** overinflate.

If the tire remains less firm, replace it with a new identical one (24×1.95 or 26×1.95 in. type according to the wheel diameter). Seek professional assistance if needed.

- Test smooth operation by rotating the wheels, steering, and pedaling.

Make sure that **ALL** movements **ARE** fluid and free from any unusual resistance.

- Inspect the front and rear brakes by pressing their levers while pushing the tricycle forward.

Be sure that **BOTH** brake levers can effectively engage the brake systems, facilitating prompt and responsive deceleration and bringing the tricycle to a smooth and controlled stop.

# Operation

## Activating and Deactivating the Battery

**Important:** Your battery was charged at the factory **BUT** may have run down during shipping.

Check the battery's remaining power for the first use.

If necessary, refill the battery using the provided charger as described in **Charging** below.

In the event that charging fails, refer to **Troubleshooting** for the usual solutions.

1. Unfasten the keys from the handlebars.
2. Insert one key into the socket at the left side of the battery.
3. To activate the battery, turn the key clockwise to **ON**.
4. To deactivate the battery, turn the key counterclockwise to **OFF**.

## Warning

**ALWAYS** turn off the battery between uses and remove the key to prevent unauthorized use.

# Operation

## Activating and Deactivating the Display Panel

1. Ensuring that the battery is on, hold the  button until the display panel activates.

*Note: ALWAYS perform this before using the throttle or pedal/push assist control.*

2. To deactivate the panel, hold  again until its screen shuts down.

### **Caution**

*Simply deactivating the battery can also directly turn off the display panel.*

*HOWEVER, this abrupt cut of power is **NOT** recommended and risks damaging the tricycle's components and circuits.*

## Riding with Throttle Control

The throttle control is available when the battery and display panel are on, enabling your tricycle to run at the 15.5 mph (25 km/h) top speed using the throttle handle on the right handlebar.

Turn the throttle handle, stop pedaling the tricycle, and your tricycle will continue along at the top speed.

*Note: The tricycle will not exceed its top speed on flat pavement but may do so on slopes.*

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

- You release the throttle handle completely.
- You press either brake lever.
- You accelerate beyond the 15.5 mph (25 km/h) top speed.

The motor will resume working in the following conditions:

- You turn the throttle handle again.
- You release both brake levers.
- Your speed returns to the top speed or below.

If you begin pedaling while the throttle control is active, the tricycle will activate pedal assist control.

If you turn off the display panel or battery while throttle control is active, the motor will stop and the tricycle will only operate manually.

### **Warning**

*For optimal safety, **DO NOT** shut off the battery while riding the tricycle, as this distraction can invite accidents.*



# Operation

## Riding with Pedal Assist Control

The pedal assist system (PAS) is available when the battery and display panel are on.

This requires you to continue using the pedals to keep the motor active but provides additional speed and strength as you ride.

The PAS has 5 levels. The tricycle will accelerate to the speed of current level as soon as the pedals fully turn two times. Press the + button to go up one level. Press the – button to go down one level.

Level	0	1	2	3	4	5
Speed	—	7.5 mph	9.5 mph	11 mph	13 mph	15.5 mph
	—	12 km/h	15 km/h	18 km/h	21 km/h	25 km/h
	0%	48%	60%	72%	84%	100%

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

- You stop pedaling.
- You press either brake lever.
- You accelerate beyond the 15.5 mph (25 km/h) top speed.

The PAS reactivates in the following conditions:

- You resume pedaling.
- You release both brake levers.
- Your speed returns to the top speed or below

If you turn the throttle handle while PAS is active, the tricycle will activate throttle control and accelerate to its top speed.

If you turn off the display panel or battery while PAS is active, the motor will stop and the tricycle will only operate manually.

Downshifting the PAS level to **0** disables the PAS and puts the motor in neutral until the + button is pressed, restarting PAS at Level 1.

### **Warning**

*Again, **DO NOT** deactivate the battery while riding. Such distraction can invite accidents.*

## Riding with Push Assist Control

The push assist system provides additional strength as you push the tricycle for a walk or climb.

After the display panel is turned on, stand beside the tricycle, hold the – button while pushing your tricycle forward, which will cause the motor to activate at a speed of 2.5 mph (4 km/h).

To stop push assist control, release the – button or press either brake lever.

# Operation

## Riding with Manual Control

To ride your tricycle normally, you can select any of the following methods.

- Downshift the PAS level to **0**.
- Turn off the display panel.
- Leave the key at the **OFF** position on the battery.
- Simply remove the battery from the tricycle as described in **Charging** below.

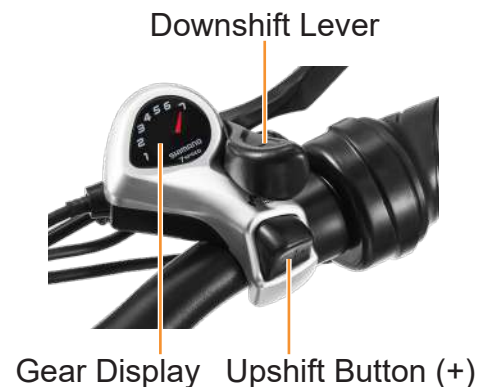
The Shimano gear shifter on the right handlebar uses a button and lever to control the 7 rear cogs, providing 7-speed gearing for manual riding.

The larger the number, the smaller the cog and the faster the tricycle will turn the wheels with the same effort.

Press the **+** button to upshift one gear per press.

Push the nearby lever away to downshift one gear per click.

**Note:** Be sure that your tricycle's crank is turning while using the shifter to adjust the long chain on the cogs.



## Adjustment Menus

When the display panel is on, hold the **+** and **-** buttons simultaneously to enter the adjustment menus, starting with Parameter 01.

For each parameter, use **+** or **-** to change the settings; press the **⏻** button to save your changes and move to the next parameter.

To leave the adjustment menus, hold **+** and **-** simultaneously again or wait without operation until the digital display automatically resets.

### **Warning**

**ALL** factory settings **ARE** already optimized for seamless compatibility among the battery, control hardware, motor, wheels, and other parts of the tricycle. They should **NEVER** require **ANY** adjustment.

If they do, **ONLY** undertake such adjustment in coordination with customer service.

If such adjustment happens accidentally, **IMMEDIATELY** stop the tricycle and resume the original settings, which are the initial values you observed. Contact customer service if you cannot remember any of them.

Failure to follow this may cause the tricycle to perform abnormally, malfunction, or even break, voiding any warranty stated or implied and posing the risks of equipment damage and personal injury.



# Charging

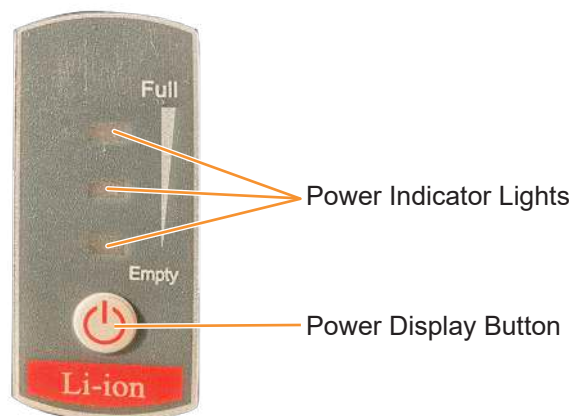
In addition to the handlebar display, your tricycle's current power level can be checked on the battery itself.

Turn the key to **ON** and hold the power display button, seeing how many of the battery's indicator lights turn on.

3 lights indicate a full battery, while 1 light indicates a weak one.

## **Caution**

**DO NOT** allow the battery to ever drain completely, which may reduce its lifespan and even make it hard to reactivate.

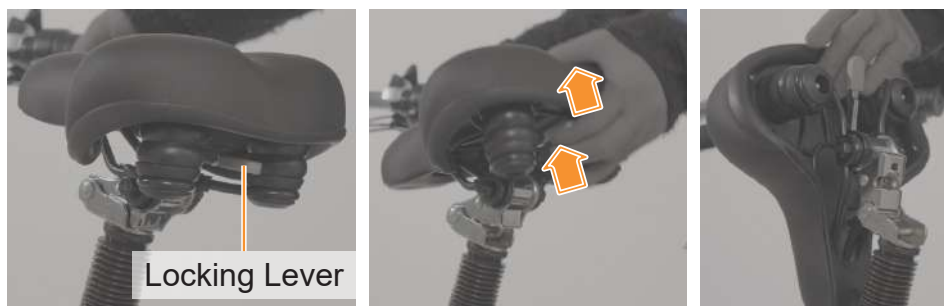


When you find that recharging is necessary:

1. Push in the key, turning it counterclockwise to **UNLOCK**.



2. Push up the locking lever, raising the rear of the saddle as shown.



# Charging

3. Hold the handle at the top of the battery, lifting the battery away from the tricycle.



4. Connect the provided charger (J) to its power cord (K) and the charging port at the opposite side of the key.
5. Connect the charger to a stable and compatible power source.  
The charger's power indicator light should turn red and charging begin.
6. Periodically check the state of the battery using the power display button.  
There is no need to fully recharge the battery. Either 2 or 3 lights should provide strong and responsive service.
7. When finished, disconnect the power cord from power.



# Maintenance

## **Warning**

**DO NOT** leave the display panel or battery on during cleaning, maintenance, or repair. Failure to follow this may result in accidental activation of the motor, posing a series of safety hazards.

- For the longest possible service life, disconnect the battery from the tricycle 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.

## **Warning**

**ONLY** use identical replacements.

- Clean the exterior of the tricycle with a soft dry or damp cloth.




## **Caution**

- **DO NOT** use harsh abrasives or caustic chemicals.
- All electronic components have waterproofing adequate for rain.

**HOWEVER**, 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.

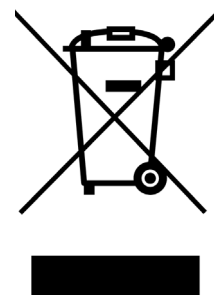
- If the tricycle is not to be used for an extended period of time, remove the battery and store everything in a cool dry place inaccessible to children and away from direct sunlight and rain. Avoid storing electronics in plastic bags, which might allow humidity to build up over time. For best results, check the battery every three months. If its power sinks below  $\frac{2}{3}$  (2 of the 3 indicator lights), recharge it to at least that full before returning it to storage.

# Troubleshooting

Problems	Usual Solutions
The chain cannot be exactly positioned on the smallest cog at the highest gear (7).	Adjust the high-limit screw (marked <b>H</b> ) on the rear derailleur with the dual-purpose screwdriver until the guide pulley and the smallest cog are lined up.
The chain cannot be exactly positioned on the largest cog at the lowest gear (1).	Adjust the low-limit screw (marked <b>L</b> ) on the rear derailleur with the dual-purpose screwdriver until the guide pulley and the largest cog are lined up.
Charging Failure	Ensure the charger is correctly connected to a working power source.
	Revive the battery in an over-low-power state. <ol style="list-style-type: none"> <li>1. Reinstall the battery onto your tricycle.</li> <li>2. Raise the motorized front wheel.</li> <li>3. Run the motor using the throttle handle for a while.</li> <li>4. Stop the motor, disconnect the battery, and restart charging.</li> </ol>
	Replace the charger, its power cord, or the battery with a new identical one.
Display Panel Failure	Ensure the battery is seated in place and the key is in its <b>ON</b> position.
 Motor Failure	Have trained technicians inspect, retighten, repair, or replace the related wiring and/or problematic parts.
 Throttle Failure	
 Control Hardware Failure	

# 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 [support@viribusbikes.com](mailto:support@viribusbikes.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.

