



SOBOWO

www.trike-bike.com.au

SOBOWO FAT Trike User Manual

Why read this user manual ?

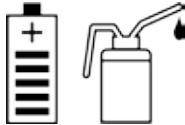
So you will understand your new Sobowo electric tricycle features, performance, safe use, & maintenance. This manual will help you:



ENJOY - Get the most from every single ride



RIDE SAFER - Both for yourself and other road users



MAINTAIN - For years of trouble-free riding and operation

Introduction

Sobowo Electric Tricycle

Welcome

Thank you for purchasing your new Sobowo electric FAT Trike. We bring you this premium product for your enjoyment, commuting and recreational use. Sobowo electric tricycles are vehicles which; operate with zero emissions using battery power, have safe performance, unequalled stability, and industry leading after-sales service.

Using this Manual

This manual contains the details of your new Sobowo electric tricycle, including its features, information on its operation, and maintenance. Please read this manual carefully and familiarise yourself with the electric tricycle before use to ensure safe operation, and to prevent potential accidents. Please be sure to retain this manual as ongoing reference for product knowledge and safe riding of your Sobowo Tricycle, and pass the manual onto any new owners or riders for reference.

The manual includes many warnings and cautions concerning the safe operation and consequences of riding an electric tricycle. All information in the manual should be studied carefully, and you should contact Sobowo or your distributor/ dealer immediately if you have any questions. The warnings and cautions information should be fully understood because they directly relate to hazardous or dangerous situations. Because it is impossible to anticipate every situation or condition which may occur while riding, this manual makes no representation about the safe use of the Sobowo electric tricycle under all conditions. There are risks associated with the use of this electric tricycle which cannot be predicted or avoided, this risk is the sole responsibility of the owner or rider.

All content in this manual is subject to change or withdrawal without notice. Sobowo makes every effort to ensure the accuracy of its documentation but assumes no responsibility or liability for any errors or inaccuracies that may appear herein.

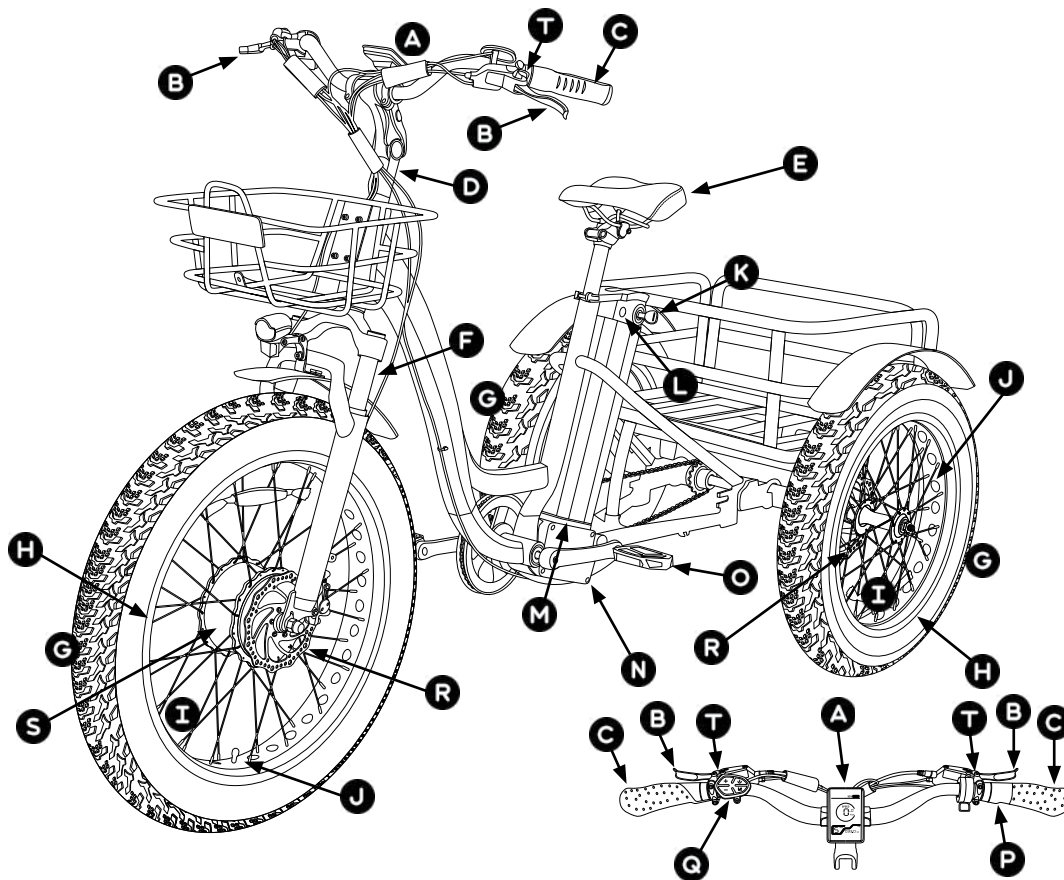
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Parts Description

Sobowo Electric Tricycle



- A** LCD Display
- B** Brake lever
- C** Hand grip
- D** Handlebar stem
- E** Seat
- F** Suspension fork
- G** Tyre
- H** Rim
- I** Spokes
- J** Valve
- K** Key
- L** Charging port
- M** Battery
- N** Controller
- O** Foot pedals
- P** Twist throttle
- Q** Display buttons
- R** Disc brake
- S** Front hub motor
- T** Parking brake

Battery Charging

Sobowo Electric Tricycle

Charging information Summary

- NOTE: **FULLY CHARGE YOUR BATTERY BEFORE THE FIRST USE OF YOUR ELECTRIC TRICYCLE.**
- The battery can be recharged after each use.
- There is no memory effect with lithium batteries, so you can charge the battery after short periods of riding without concern or damage.
- This battery can be charged in the tricycle, or removed from the tricycle.
- Only charge this battery upright, never charge upside down/inverted.
- The smart charger will automatically stop once the battery pack is fully charged and enters stand-by mode.
- Always charge in dry conditions, preferably undercover and away from direct sunlight.
- Never use any other charger than the one supplied with your tricycle.
- Never discharge your battery below 10%, this will permanently damage your battery.
- Never leave your battery flat for any period, this will damage your battery.
- If storing for longer than 30 days, fully charge the battery first. When in storage the battery must be fully charged every 60 days.

Additional charging information

Sobowo Electric Tricycle

Using your charger

- Switch off the power to the tricycle by turning the key to the OFF position
- The battery can be charged in position, or removed from the tricycle.
- Swing the charging port cover open.
- Plug the charger lead into the charging port, next to the key position.
- Plug the AC power plug into a 240-volt household power outlet to start charging.
- After charging, unplug from the wall outlet first and then from the tricycle charging port.

NOTE: Always charge your battery at temperatures between 10° and 30° Celsius, and please ensure the battery, charger and cables are not damaged before charging.



Charging duration

- When the charger is connected, the red indication light on the charger will be glowing, this shows that power is connected, and the battery is charging.
- When the battery is charged for the first time, it could take up to 8-10 hours for a full charge.
- When the green indication light on the charger is glowing, it means that the battery is fully charged. When full, the charger will switch to stand-by mode to ensure that over-charging will not occur. A normal recharge will take between 2-6 hours.
- This charger has protection for over-charging, but extended charging is not recommended.
- The charger must be disconnected within 24 hours of reaching full charge otherwise it may affect the long-term battery performance.

About charging

Sobowo Electric Tricycle

Charger warnings

- Keep the charger in a safe place, away from children.
- Do not charge the battery with any other charger, even if it has the same plugs.
- The charger works with 240 Volts. Never open the charger, it's dangerous and can result in electrocution.
- Avoid the charger contacting liquids or metal objects, it will damage the charger.
- Always store your charger so that it cannot suffer damage from a fall or impact.
- When in use, never cover the charger as this may cause, overheating, damage, or fire.
- The charger is for indoor/undercover use only. Please keep it in dry and in a well-ventilated place.
- If you notice a strange smell from the charger, or the charger is too hot, please stop charging and contact Sobowo or your Sobowo Dealer.
- The charger must be disconnected within 24 hours of reaching full charge.
- The swing cap on the charging port must be closed while your Sobowo electric tricycle is being ridden to prevent the entry of foreign debris, water, mud etc.

Daily checks

Sobowo Electric Tricycle

For maximum safety, make the following checks before riding

- Normal operation of the front and rear lights, brake system, and brake lever power cut-off system.
- Check parking brakes are in the OFF position and released.
- Check tire pressure is 15-20 psi (1-1.4 bar), low pressure will influence both handling and speed and decrease your range.
- Check front and rear wheels, if there is any movement anywhere then tighten before riding.
- Check the battery charge level is sufficient for the upcoming ride.
- Check the front and rear brake system for stopping and free operation.
- Adjust the handlebars to your preferred position.
- Adjust and secure the seat into the correct position for your height.
- Make sure any loads you are carrying are secure and not overweight or overhanging.
- If you are transporting dogs or other pets make sure they have a secure floor to avoid slipping and they are properly secured.
- Secure any loose clothing.
- Always wear a helmet.

Important warnings when riding

- To increase safety and reduce power consumption, it is recommended to avoid sudden starts and stops.
- The tricycle's electric controller has temperature overload protection. If a temperature overload situation occurs, power to the electric tricycle will be cut automatically and restored when temperature returns to normal.
- The recommended maximum rider weight is 100 kgs, although we have tested riders up to 150 kgs safely.
- Avoid riding overloaded, and don't ride too fast.
- Never ride with more than 1 person, it's dangerous and illegal, unless using an approved child seat.
- Never ride after drinking alcohol or taking medicines that cause impairment.
- Never ride on the roadway where there is vehicular traffic.
- Ride within your abilities and the conditions, especially when learning.

How to ride safely

- Position the tricycle on level ground clear of any obstacles, especially until you get used to riding your Sobowo tricycle.
- Firstly, decide if you are going to ride the tricycle with, or without electric assistance.
If you are going to be riding without electrical assistance then you can continue with the mounting instructions. If you are going to ride the tricycle with electric assistance, then turn the key on the battery to the 'ON' position, and then continue.

Riding continued

Sobowo Electric Tricycle

- Standing alongside the tricycle, hold the brakes, and apply the parking lock to stop the tricycle from moving.
- Position yourself holding onto the handlebars so that you can place a leg over/through the tricycle frame until you are standing evenly over the tricycle frame with a foot on each side. Don't try to swing your leg over the back basket area, it is not safe to do so.
- Using your strongest leg, place your foot onto the pedal, when the pedal is at the lowest position, then stand on the pedal to lift yourself and up and get your body positioned onto the seat correctly. If you can get onto the seat from ground level without standing on the pedal then the seat is set too low for you. Continue with both feet on the pedals at all times.
- Once comfortable, release the parking lock and either pedal the trike without electric assistance or, if choosing electric assistance, go through the electrical start-up details below.
- Turn the Sobowo electric tricycle on by turning on the handlebar controller. The colour LCD display will light up. Select the desired starting speed. The speed range 1-5. 1 is the slowest setting with 5 being the fastest.
- Decide if you want to operate as pedal assist or with twist throttle.
- Pedal assist mode, start to pedal and electric assistance will engage after half-to-one turn of the pedals.
- Throttle mode, press the red button to turn the throttle on and twist the throttle for the desired speed level.
- With both feet on the pedals at even level, push off with your strongest leg, looking ahead for pavement conditions/obstacles and for other road users/traffic.

Riding continued

Sobowo Electric Tricycle

- If riding in pedal assist mode, power will engage after half-to-one turn of the pedals. In throttle mode at the same time as pushing off, twist the throttle slightly using your right hand to introduce electric assistance .
- You will not lose your balance on the electric tricycle so always keep both feet on the pedals at all times.
- Ride and control the tricycle up to your desired speed. Don't ride too fast until you are fully familiarised with the Sobowo electric tricycle, its performance, stopping distance and handling characteristics.
- Slowly squeeze the brakes to get the feel of how they work and their strength.
- The brakes on your Sobowo electric tricycle are high-performance, hydraulic disk brakes, and they will reduce your speed very quickly. About 70% of the braking power will come from the front wheel, but use front and rear brakes together for the best stopping performance.
- The brake lever on the left-hand handlebar operates the two rear wheels, and they brake/stop together. The brake lever on the right-hand handlebar operates the front wheel.

Important tips when riding

- When pushing/walking the tricycle manually, please turn off the power at the key to avoid accidental acceleration and accidents.
- It is recommended to park your electric tricycle undercover indoors, or outdoors under cover in the shade. Don't forget to switch off the power by removing the key.
- In a public place, the tricycle must be parked in accordance with local traffic/legal regulations. Don't forget to switch off and remove the key and also engage the park brake so stop the tricycle moving when blown by the wind.

Riding range

Sobowo Electric Tricycle

Average distance from one charge is between 25-40 km. The distance will differ based on different riding conditions, rider weight, pedal assistance effort and other factors.

Conditions for testing shown below: operation with throttle only, wind speed: light to moderate; atmosphere pressure 1013mb; ambient temperature: 25°C; rider weight: 90kg; road surface: hard bitumen; battery: fully charged.

Surface \ Range	10km	20km	30km	40km	Riding conditions
Flat					Wind level: Light Normal temperature: 25°C Rider weight: 90kg
Flat					Wind level: Windy Normal temperature: 25°C Rider weight: 90kg
Uphill and downhill					degree of slope ≤2 degrees Wind level: Windy Normal temperature: 25°C Rider weight: 90kg

 Max speed 25 kph for journey

 Economy speeds 15-20 kph for journey

Power consumption of normal full charge: ≤0.5kwh

Rider weight: 90kg Electric tricycle weight: ≤35kg

The distance travelled is related to the road surface, acceleration during starting, braking anticipation, wind direction, temperature, tyre air pressure, battery condition and charging level, please note this during riding.

Range can be improved by rolling down hills and especially by pedalling with mild to moderate effort.

Display information

Sobowo Electric Tricycle



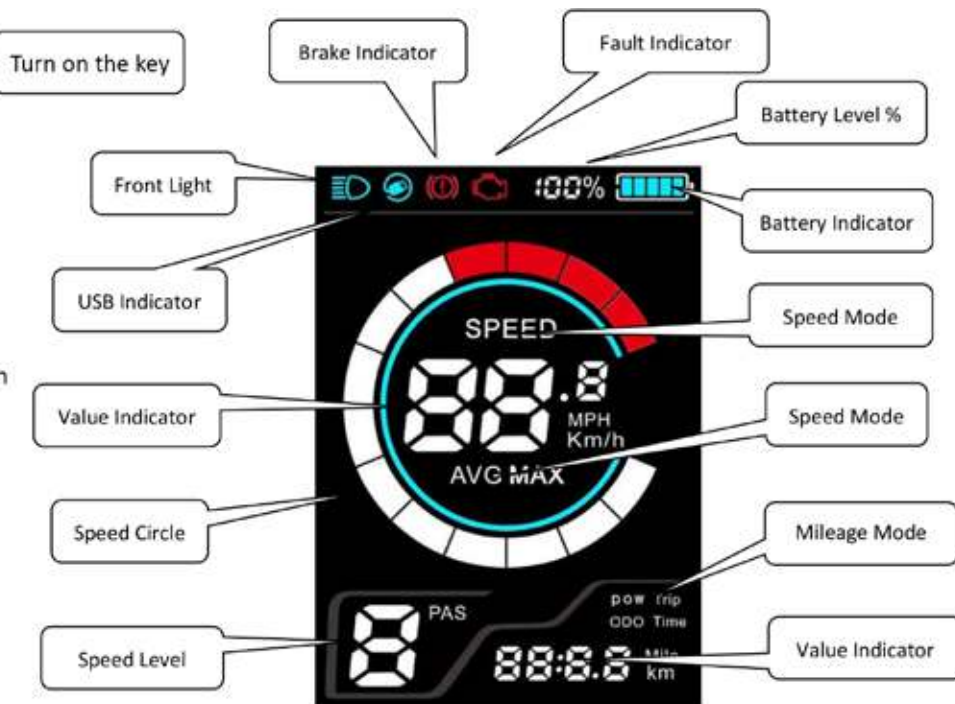
Turn on the key

Use the key to turn On/Off all power

Press and hold down the power button until LCD screen powers up.



Power Button



Display Information

Display operation

Sobowo Electric Tricycle

Turn the key on the battery to the ON position. Electrics on the tricycle will only operate when the key is turned on.

Then turn on the display power button on the handlebars.



Power On/Off

Press and hold the **Power Button** for about 2 seconds to turn on/off the display. If there is no operation for more than 5 minutes after starting (the time can be set by the user), the display will be automatically turned off.

Speed Selection

To select the speed level, short press the **Plus Button** or **Minus Button** to change the speed level. The default speed is level 1 when the display is turned on (the slowest speed), the fastest speed is level 5. You can change between these speeds at anytime, even when riding.

Mileage Mode Switch

When power is on, short-press the **Power Button** to switch the mileage display mode. The following information is displayed in rotation: riding time (Time) → accumulated mileage (ODO) → power information (Pow) → trip mileage (Trip).

Speed Mode Switch

When power is on, short-press the **Mode Button** to switch the speed display mode, and the following information is displayed in rotation: instant speed (RT SPEED) → average speed (AVG SPEED) → maximum speed (MAX SPEED).

Display operation continued

Sobowo Electric Tricycle

Headlight / Tail-light Switch

Press and hold the **Plus Button** (1 second), the brightness of the display decreases, and the front and rear lights are turned on. Press and hold the **Plus Button** again (1 second), the display backlight will return to its original brightness, and the front and rear lights will be turned off.

NOTE: Display backlight brightness can be adjusted in 5 levels. Users can set it according to their needs.

Walk Assist Mode (4 km/h walk assist)

Press and hold the **Minus Button** and the electric tricycle enters the walk-assist mode, the speed is displayed and the gear position displays a flashing “P”. Release the **Minus Button** to exit the walk assist mode. The button must remain depressed for walk mode to stay active, this mode is handy for moving your tricycle around without actually riding.

NOTE: The electric tricycle will disengage walk assist mode instantly when either brake lever is depressed or the **Minus Button** is released.

USB Function

Long press the **Mode Button** (1 second), and the USB function is turned on, the user can then use the USB outlet to charge or run devices. Long press the **Mode Button** for more than 1 second, the USB function is turned off.

NOTE: The charging output is DC 5V 500mA, the outlet is on the bottom of the LCD screen under a weatherproof plug.

Clear Data

Press **Plus Button** and **Minus Button** simultaneously for 1 second to clear the temporary data. The cleared data includes the maximum speed (MAX SPEED), average speed (AVG SPEED), single mileage (TRIP), and riding time (TIME).

NOTE: The data will not be cleared when the display is turned off or the electric tricycle is turned off.

Basic maintenance

Sobowo Electric Tricycle

To ensure safe riding conditions you must properly maintain your electric tricycle. You should follow the basic guidelines below, and see your local bike shop seasonally to ensure your electric tricycle remains in a safe condition for riding.

Regular self-checks

- Inspect condition of both wheels, frame, and front forks, including checking the spokes.
- Tyre pressure and tyre condition/wear.
- Display operating correctly.
- Braking system operating correctly.
- If you do not use the electric tricycle for long periods of time, please charge the battery at least once every 60 days to avoid reducing its lifespan.
- Check all electrical cables for chafing or rubbing/wear.

Maintenance and cleaning tips

- Do not wash with high pressure water to prevent water damaging the electrical system.
- Your electric tricycle should be washed with warm water and mild car wash. Then wipe with a soft dry cloth.
- Polish your electric tricycle with spray-on polish (Mr. Sheen etc), avoiding the disk brakes, tyres, handle bar grips etc.
- Lubricate the chain with chain lubricant after washing if necessary.
- Do not apply any lubricant or sprays on the brakes, brake levers, rims, tires, battery, and LCD display.

Troubleshooting

Sobowo Electric Tricycle

	Symptoms	Possible causes	Most common solutions
1	The tricycle doesn't work	(1) Insufficient battery power (flat battery) (2) Faulty connections	(1) Charge the battery (2) Check all connections
2	Irregular acceleration and/or reduced top speed	(1) Insufficient battery power (2) Loose throttle (3) Damaged throttle cable	(1) Charge the battery (2) Tighten and test (3) Contact an Authorised Service Center
3	When powered on, the motor doesn't respond	(1) Loose wiring (2) Loose throttle (3) Motor wiring plug is loose or damaged	(1) Repair and/or reconnect (2) Tighten and test (3) Contact an Authorised Service Center
4	Reduced range	(1) Low tire pressure (2) Low or faulty battery charge (3) Driving with too many hills, braking or accelerating suddenly, and/or excessive load (4) Battery discharged for long period of time, without regular recharging, aged or damaged battery	(1) Adjust the tire pressure (2) Check the connections and/or fully charge the battery (3) Help with pedaling (4) Replace the battery
5	The battery won't charge	(1) Charger not connected properly (2) Battery fuse blown (3) Battery wiring disconnected or a bad contact	(1) Check the connections (2) Replace the fuse (3) Reconnect/repair the wiring
6	Wheel/s make strange noises	(1) Possible worn bearings (2) Possible spoke damage	(1) Replace the bearing (2) Adjust/replace the spokes or rim

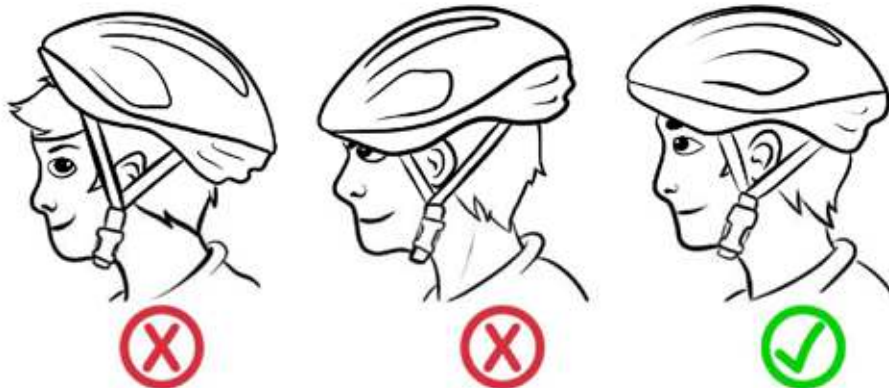
For your safety, please do regular maintenance and tightening checks. If you find any abnormality, please repair immediately.

Recommended torque values for threaded fasteners

Sobowo Electric Tricycle

Item	Part	Torque Required in N.M.
1	Handlebar	18-20
2	Handlebar Stem	18-20
3	Saddle	18-20
4	Seat post	18-20
5	Front Wheel	16-25
6	Rear Wheel	25-35
7	Bottom Bracket	35-55

Always ride with an approved and certified helmet fitted in the correct position

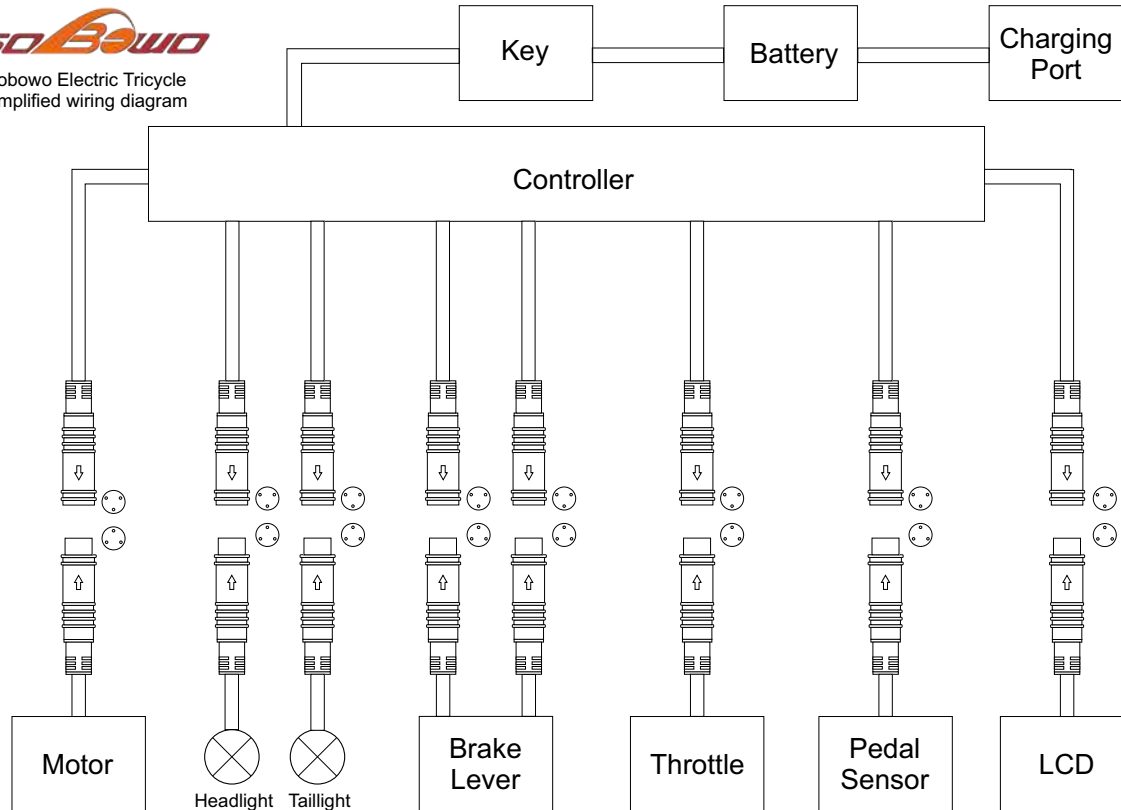


Wiring diagram

Sobowo Electric Tricycle



Sobowo Electric Tricycle
simplified wiring diagram



Saving battery power and extending your range

Sobowo Electric Tricycle

Frequent hard starting, aggressive braking and hard starting again, riding fast against the wind, continuous riding on rough or muddy roads, riding in hilly areas, and heavy rider weights will decrease the battery power and shorten the riding distance.

Here are some tips for extending battery life.

- Try not to brake and hard start frequently, look ahead when riding, and judge the road conditions in advance.
- Avoid hard starting and accelerate slowly for maximum range.
- When the battery is not in use, it should be recharged once every 60 days.
- Check the battery regularly. If the battery is abnormal, have it inspected, tested, and repaired. Keeping the battery operating correctly will extend the life of the battery pack.
- The average charging time is about 2-6 hours. Try to avoid overcharging or using fast charging.
- Long-term direct exposure to direct sunlight is strictly prohibited, excessive heat will damage your battery.
- Avoid cold temperatures below 2°C, cold or below freezing will damage your battery.
- Never use your battery for anything except its intended purpose.
- Never use a battery charger which was not supplied with your Sobowo electric tricycle.
- Never charge the battery on its side or upside down.

Useful tips

Sobowo Electric Tricycle

- This user manual is only used for reference purposes and cannot be used as an inspection reference.
- The images shown in this manual may differ from the actual model.
- Due to technical improvements, we reserve the right to change the specifications without notice.
- The electric tricycle has a maximum speed limit. For safety reasons, it is strictly forbidden to adjust, or try to reprogram, the electric tricycle.
- Make sure to perform a safety check before each ride, throttle, brakes etc.
- Only people who have read and understood these operating instructions for the Sobowo electric tricycle are allowed to ride.

General warning

Sobowo Electric Tricycle

Like riding a bicycle, riding this electric tricycle also has the risk of injury and damage. If you choose to use this electric tricycle, you will have to bear such risks, so you need to understand the rules of safe riding and maintenance. Proper use and maintenance of your electric tricycle can reduce the risk of injury.

The electric tricycle is designed for people 16 years of age or older. Riders should have good physical coordination, reaction, and mental abilities, and be able to cope with road conditions and emergencies if they arise. You must also comply with age restrictions on cycling laws in your state or territory.

If you have visual impairment, hearing impairment, physical impairment, cognitive/language impairment, epileptic seizures, or other impairments or disabilities that could affect your ability to ride safely then please consult your doctor and/or health specialist(s) before riding.

A note for parents and guardians

Sobowo Electric Tricycle

Note on wearing protective gear

Always ensure the rider is wearing proper protective equipment, such as an approved safety helmet. A helmet is required by local laws and regulations nation-wide in Australia. Always wear shoes and keep shoelaces tied and out of the way of the wheels, sprockets and chain. Never ride barefooted or in sandals. If you are headed off-road then knee pads and elbow pads are highly recommended.

AN IMPORTANT MESSAGE TO PARENTS

This manual contains important information. For your child's safety, it is your responsibility to review this information with your child and make sure that your child understands all warnings, cautions, instructions, and safety topics. All children should always ride with adult guidance. The Sobowo company recommends that you periodically review and reinforce the information in this manual with younger riders. You are required to inspect and maintain your child's electric tricycle to ensure their ongoing safety.

Safety notes before first use

Sobowo Electric Tricycle

This electric tricycle is intended for riders older than 16 years. Do not ride the electric tricycle if you suffer from reduced physical, sensorial, or mental issues. Riders with a lack of experience or knowledge should ride carefully. Children should not play with the electric tricycle, nor should cleaning or maintenance be attempted by children. The use of this electric tricycle can result in stress and fatigue by passing riding vibrations throughout the rider's body. If this causes you distress or discomfort then immediately stop riding.

This electric tricycle is a leisure device. However, when entering any public area, it may be considered a vehicle subject to possible traffic laws and regulations. For your own safety, please follow the instructions in the manual as well as local traffic laws and regulations.

At the same time, you should understand that operating risks cannot be entirely avoided as others may violate traffic regulations and drive erratically. You may be exposed to road accidents just as when you're walking or biking. The higher your speed, the longer the stopping distance. On a smooth surface, the electric tricycle may slip, lose balance, and even result in a fall. Be cautious when riding, don't speed, and keep a safe distance from other road users, especially when riding in unfamiliar areas.

Additional safety notes

Sobowo Electric Tricycle

- Ensure handlebar grips are not damaged and installed properly. Loose or damaged grips can cause you to lose control and fall.
- Failure to wear a helmet when riding may result in serious injury or death.
- Do not use this electric tricycle with standard bicycle trailers, stands, or vehicle bicycle racks. Please contact Sobowo to check if your equipment will work with the electric tricycle before use.
- Off-road riding requires special attention and specific skills. Variable conditions and hazards accompany off-road riding and extra care must be taken. Wear appropriate safety gear and do not ride alone in remote areas.
- Take extra care while riding in wet conditions. Feet or hands can slip in wet conditions and lead to death or serious injury from a fall.
- Riding in wet conditions is not recommended at speeds above 15 km/h.
- Don't remove front or rear reflectors, or the orange reflectors on the wheels, they are required by law.

Additional safety notes

Sobowo Electric Tricycle

- Engaging in extreme riding is dangerous and should be avoided. Although many articles/ advertisements and catalogues depict riders in extreme terrain, this is not recommended or permitted, and you can be seriously injured or killed if you perform extreme riding.
- Sobowo electric tricycles do have strength and integrity limitations. Extreme riding should not be performed, otherwise you can be seriously injured.
- Failure to comply with these instructions or engage in improper operation, or not providing correct maintenance of your electric tricycle or accessories can result in serious injury or death.
- After any incident you must consider your electric tricycle unsafe to ride until you consult with a certified electric tricycle service provider for a complete safety inspection.
- Failure to properly charge, store, or use your battery as instructed will void the warranty and may cause a hazardous situation.

Additional safety notes

Sobowo Electric Tricycle

- You should check the operation of the brake inhibitor switches before each ride.
- The brake system is equipped with an inhibitor which disconnects power to the electric motor whenever the brakes are engaged. Check proper operation slowly while in a controlled environment by riding slowly with the electric motor running and applying the brake levers, the electric motor should immediately stop.
- Riders must understand the operation of the twist throttle before use and take care with their riding, respecting speeds appropriate for the area they are riding in, and importantly, their user experience level. Most accidents could be prevented by riding slower.
- Any changes to the electric tricycle not expressly approved by Sobowo will void warranty and could adversely affect your safety while riding.
- Because electric tricycles are heavier and faster than normal tricycles, they require extra caution and care while riding.
- To avoid damage never, submerge the electrical components in water or subject your electric tricycle to saltwater environments.

Warranty

Sobowo Electric Tricycle

Sobowo electric tricycles carry a warranty against manufacturing defects and faults for normal use (as listed below), and a 6 month warranty for commercial use.

- Frame = 2 years
- Motor = 18 months
- Electrics = 1 year
- Warranty is limited to the original owner only, and covers the original component parts of each new Sobowo electric tricycle for defects in material and workmanship only, the warranty does not cover labour costs.
- The warranty does not cover incorrect assembly or damages caused by misuse.
- This warranty applies only to Sobowo electric tricycles and parts purchased new from an authorised Sobowo Products dealer, and where the assembly has been completed in compliance with our supplied instructions.
- Unless otherwise provided, the sole remedy for a Sobowo Product warranty claim is limited to the replacement of the defective parts with those of equal or greater value at the sole discretion of the Sobowo manufacturer.
- In no event shall Sobowo be responsible for any direct, incidental or consequential damages, including, without limitation, damages for personal injury, property damage, or economic losses, whether based on contract, warranty, negligence, product liability, or any other reasons whatsoever.

NOTE: Every Sobowo electric tricycle has a unique serial number stamped into the main frame near the forks. These numbers can provide information that may be useful for insurance claims and in case of loss or theft. Record this serial number on page 33 in the notes section.

Full warranty statement, including exclusions at <https://www.sobowo.com.au/warranty/>

Register your warranty online <https://www.sobowo.com.au/warranty-registration/>

Specifications

Sobowo Electric Tricycle

Model: **Sobowo - Fat Wheel Electric Tricycle**

Common Name: Sobowo-Trike Bike, Fat Wheel Electric Tricycle

SKU: TB-24-SOBOWO

Build Material

6061 T3 Aluminium Alloy

Electrics

Motor: 48V 500W Bafang Front Hub Motor

Electronic Controller: Lishui Intelligent Brushless Controller

Battery Capacity: 48V 15Ah/720Wh Li-ion Battery

Battery Features: Locks to frame, gauge to check battery capacity, and USB charging outlet

Charger: AC240V, 2A Smart Charger Typical charging time: 2-6 hours

Complies with EU standard EN15194 and EN14765, EPAC according to EN15194 On-road mode

Max Speed 25 km/h On-road mode

The maximum output when in pedal assist mode is 250 W maximum continuous rated power

Maximum Speeds

Road Setting: 0-25 km/h

Off-Road Setting: 0-32 km/h

Walk Mode: 4 km/h

Operations

Off Road: Twist Throttle

Speed Settings: 1

Range: $\approx$ 40 kms

Walk Mode: 4 km/h

On Road: Pedal Assist

Speed Settings: 5

Range: $\approx$ 55 kms

Walk Mode: 4 km/h

Specifications continued

Sobowo Electric Tricycle

Tricycle Features

Brakes: Zoom Hydraulic Disc Brake Calipers on all 3 wheels

Brake Lever: Alloy 4 finger, Zoom Hydraulic Brake Levers with Power Cut-off and Parking Brake

Front Fork: RST Hydraulic Suspension Fork

Stem: Adjustable Promax

Handlebar: Alloy – comfort series

Grips: Justtek ergonomic grip with extended palm support

Seat: Promax Chifan

Seat post: Promax Alloy, adjustable with forward tilt to remove the battery

Display

Multi Function Display: UKS2 LCD Colour Display with USB charger outlet

Operated through handlebar mounted keypad

Lighting

LED Headlight, LED tail light with brake function

Wheel Details

Front Rim: 24" x 4.0" Fat Tyre

Front Tyre: Kenda Krusade 98-507

Rear Rim: 20" x 4.0" Fat Tyre

Rear Tyre: Kenda Krusade 98-406

Rims: Alloy double wall

Hubs: Rear: Alloy, Front: Alloy

Spokes: #304 Stainless steel #12 Gauge

Specifications continued

Sobowo Electric Tricycle

Mudguards: Front and rear wheels
Crankset: Alloy 42 teeth chain ring
Rear Sprocket: Shimano 18 teeth
Gears: Single Speed Shimano 18 teeth
Chain: KMC

Bottom Bracket

Sealed bearing bottom bracket with Rothwell aluminium cranks and Wellgo oversize pedals

Rear Axle

High strength, hardened steel rear axle, 20mm Ø, 4 sealed bearings

Hardware

#304 Stainless steel nuts, bolts, washers

Safety

White reflector on front, red reflector on rear and yellow reflectors on all wheels, bell fitted, yellow reflector on both pedals. LED Headlight, LED tail light with brake light function. Fully complies with Australian regulations

Carrying Capacity

Recommended Rider Weight: 100 kgs but tested up to 150 kgs max.
Load Capacity Front Basket: 10 kgs (fitted to frame – no effect on steering)
Load Capacity Rear Basket: 50 kgs

Specifications continued

Sobowo Electric Tricycle

Tricycle Dimensions

Overall length: 190 cm

Handlebar width: 66 cm

Overall width: 80 cm

Typical handlebars height: 120 cm

Basket Dimensions

Rear Basket: 55cm wide x 45cm long x 24cm deep

Front Basket: 37cm wide x 28cm long x 15cm deep

Basket Weight Capacity: Front 10 kgs, Rear 50 kgs

Tricycle Weights

Nett Total: 39 kg (Assembled and ready to ride with all accessories fitted)

Gross Total: 50 kg (In the boxes)

Box Dimensions

Box 1 Dimensions: 123 cm x 34 cm x 77 cm (L x W x H), Weight: 26 kgs

Box 2 Dimensions: 87 cm x 60 cm x 71 cm (L x W x H), Weight: 24 kgs

Cubic Dimensions for shipping: $0.693\text{m}^3 \times 250$ (standard cubic conversion) = 174.0 kg volume weight

Assembly

approx. 45-60 minutes with supplied tool kit

*Specifications subject to change without notice and at any time.

Notes:

Record your serial/frame number here:

Certification

Sobowo Electric Tricycle



This product(s) have been manufactured to applicable standards on a voluntary basis with compliance to ISO 9001, CE and ECM standards.

The product(s) satisfies the requirements for the attachment of these certification marks.

The Manufacturer is responsible to maintain compliant internal production procedures and controls to ensure the product(s) follow Certification standards at the time of product manufacture.

Complies with EU standard EN15194 and EN14765

EPAC according to EN15194 operated in On-road mode

Max Speed 25 km/h operated in On-road mode

The maximum output when in pedal assist mode is 250 W maximum continuous rated power



www.trike-bike.com.au

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SOBOWO FAT Trike User Manual