



STREETROD

OWNER'S MANUAL

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Instructions

Please read the manual carefully before using the electric trike.

2. Make sure all parts are locked tightly, such as the frame joint, driver hand pipe, seat post and pedal, etc. before using. Do not use this bicycle before carefully reading the instructions and knowing about the performance of the electric bicycle.

Do not lend the electric bicycle to anyone who does not know how to operate it.

3. Develop a habit of charging when the power of the battery pack shows a red light. Please charge and maintain the battery pack consistently to have longer service; if the bicycle is not to be used for a long period, it is suggested that one must close the power of battery pack, and charge-discharge the battery once per month.

4. Frequent braking, starting, uphill, luff, still starting, muddy and uneven ground, overloading of people and goods will assume larger electricity, thus influencing the travel mileage. If you want to get the best travel mileage, we suggest you follow the following instructions:

Ride the bicycle to a certain speed by pedaling, and then turn on the power.

Try to decrease the frequency of braking and starting while maintaining safe riding habits. Please assist with pedal when the slope angle is steep, or the wind speed is fast.

5. When you lift the battery, please do not insert metal objects (such as lead wire, key etc.) into the charging socket or put them on the positive and negative contact point of battery cell. This can cause the battery to short-circuit, striking fire, and endangering personal safety.

6. This e-bike is not intended to be ridden through water. When the water level inundates the controller, electrical circuitry or motor hub, it is possible that it will cause short circuit and damage the circuit, please pay attention to avoid burning down the electronic control system.

Leave it indoors when charging or not riding.

The standard load weight of this bike is **300 lbs.** (including the cyclist), overloading may cause the travel mileage to decrease, or cause the spare parts of the bike damage and reduce working life of battery.

8. If a charger which is not specially designed by our company is used to charge the battery pack, and spare parts are used that do not match the performance of the bike, should any accident occur, our company is not responsible for it.

9. If you disassemble or refit the bicycle and its spare parts, our company is not responsible for the loss of performance caused by such action, tampering with your bike or trike will void the warranty.

10. Pay attention to the illuminating state while driving at night, ride carefully and prevent accidents.

11. Minors, pregnant women and anyone with inconvenience of hands and legs should not use the electric bicycle.

12. Please check the tightening state of front axle, bottom bracket shell, rear axle, etc. frequently in use.

13. Children younger than 14 should not ride the electric bicycle.

Warnings



Please pay attention to the following items for your safety:

Disassembling and refitting the bicycle may bring hidden safety hazards to your electric bike, therefore, causing risk.

Downhill speed should be moderate, please do not apply the front brake fully when slamming the brakes at high speed to avoid the front wheel from locking and losing control.

The brakes should not be oiled to avoid causing iffy braking and endangering your personal safety.

Wear appropriate protecting apparel when riding under the rain. Never use an umbrella and/or operate the bicycle with one hand.

Make sure to check the set up and stability of the brakes, saddle, frame, handlebar, wheels, etc. Before riding to make sure all is in proper working condition.

Avoid riding through sharp objects like stairs or rocks, which can damage the tires and wheels

Do not attach any objects to the handlebar that may obstruct your vision or handling.

This bicycle is for a single rider, not intended to carry any passengers. Always wear a helmet.

Battery warnings

Do not keep, approach or store the battery near high heat sources. Avoid areas near flammable or explosive liquids or gas.

Do not disassemble the battery case, do not attempt to make any modifications or external connections. You will lose your warranty.

Do not tamper or disassemble the charger, avoid dropping or smashing it violently.

Always keep your hands dry when plugging and unplugging the power plug and when handling the battery.

The battery is not a toy, keep children away.

Do not attempt to short-circuit the battery electrodes, which can damage the battery, the bicycle controller and the charger.

Do not drop the battery, do not immerse it in water and keep it away from high-humidity areas.

Charge your battery in a well ventilated area, free of humidity and far from flammable or explosive areas.

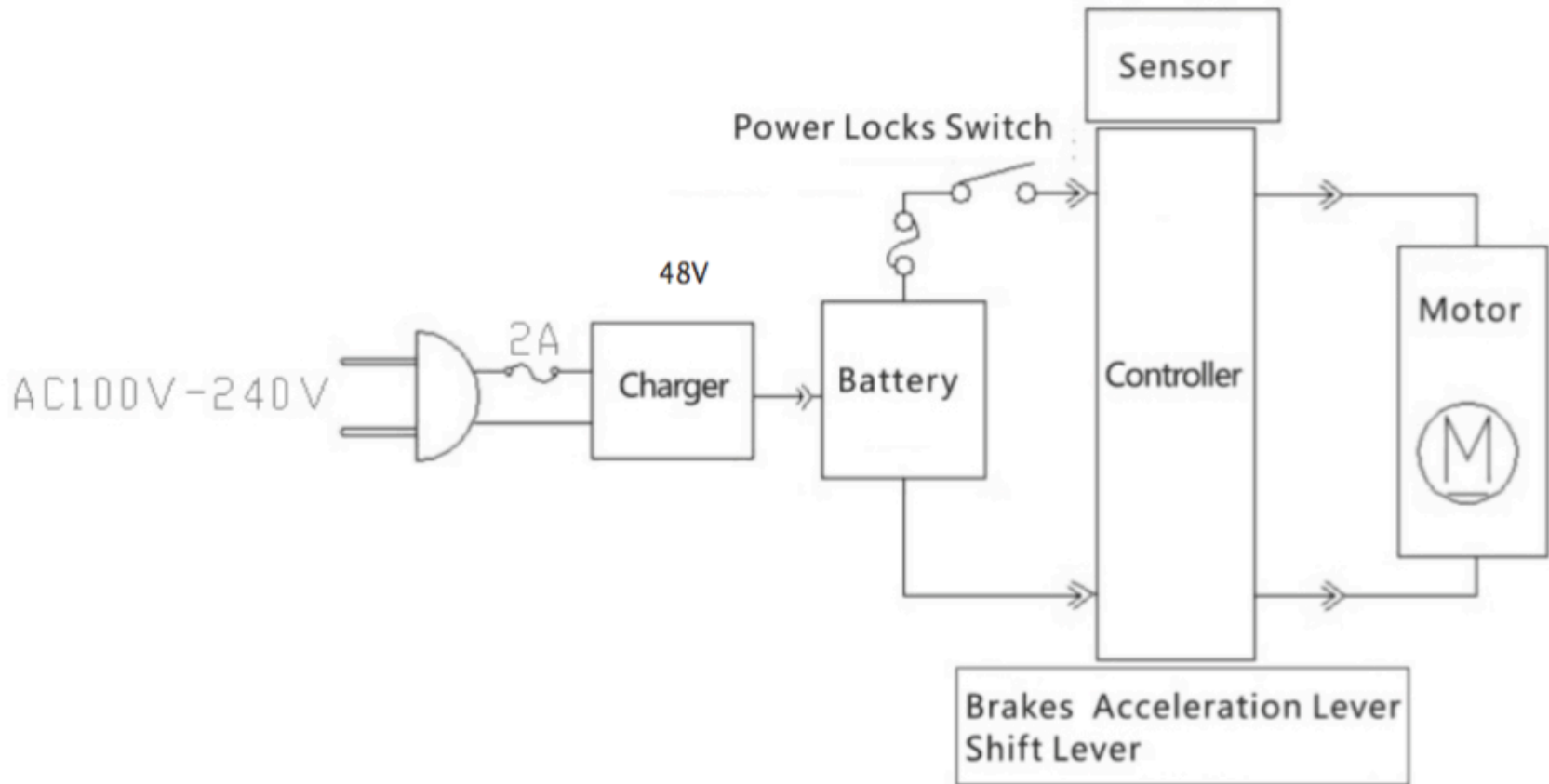
While charging, there should be no foreign objects on the charger or the battery shell.

Avoid contact between the conductive objects and the battery poles at the same time to avoid short-circuit and damaging the battery.

Explanatory drawing of the overall bicycle configuration



Schematic diagram



Main technical parameters

Total bicycle weight in lbs.	58 Lbs.
Max. load including cyclist, and any cargo	300 Lbs.
Travel mileage on a single charge. Miles w/ P.A.S.	Winter: 60 miles, Summer: 65 miles
Power consumption on a single charge (Kw)	<0.6
Power consumption per kilometer	<1.2

Battery	Type	Lithium ion battery
	Voltage capacity	48 Volts, 20amps

Motor	Motor Type	Permanent magnet, DC high speed motor, 750w
	Rated output power	30.5 V +/- 0.5V/41.5 V +/- 0.5 V
	Rated voltage	48V

Protection	Under voltage	30.5 V
	Controller	20 A +/-

Protection	Over-current protection mode	48 V 2A
	Duration of charge	4 to 5 hours, instant charge after 2 hours
	Main input voltage	AC 110-220V
	Main output voltage	48V
	Charging current	2A

Throttle control

Your electric bike is equipped with a power and throttle control on the right hand side. To power on your bike first make sure to turn on your bike by pressing and holding the **M button** on the left side. (Fig A)

You control the throttle by twisting the right grip with your wrist (Fig. B), the farther you push from its resting position, the more power is delivered to the motor to accelerate. When you want to slow down, you simply release the throttle and let it return to its resting position and simultaneously apply the brakes.

When the pedal assist mode is set to "0", the pedal assist and throttle function(s) do not engage. When the pedal assist mode is set to "5" the pedal assist function will engage to the maximum speed level and the throttle will accelerate the bike forward. The throttle control is operated on the right hand side.

Fig. A

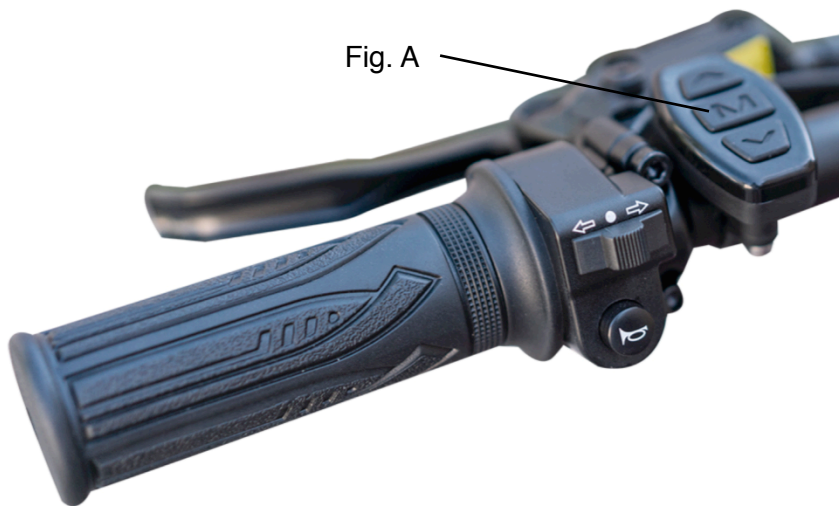


Fig. B



Operation stages

Warning:

"For your safety, please practice in a closed track the first time you ride your ebike". After mastering the controls of an electric bicycle, you may ride on regular roads and follow the traffic rules consciously. Do not let inexperienced people ride the electric bicycle, do not disassemble and refit the electric bicycle. please pay attention and brake in advance to allow longer braking distance in rainy or snowy weather.

Start: Press and hold the **M button** on the left handlebar controls.

Motor On/Pedal Assist:

Start pedaling and the electric bicycle will drive forward normally. If you stop pedaling, the electric motor will stop working, but it will still drive forward a short distance because of inertia. You can adjust the level of electric assistance by toggling the up and down arrows. There are 5 levels of electrical assistance, level 5 being the highest.

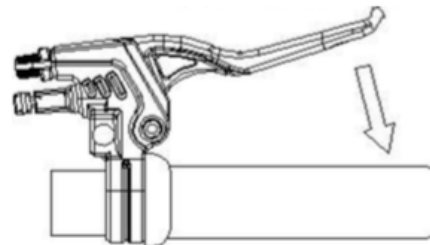


Throttle only

You can use the thumb throttle only and the bicycle will move without you having to pedal. Click the M button on the handlebar control to turn on the system, with your right wrist pull down the throttle, the further you push the throttle the faster it accelerates.

Note: A: For your safety concern, please hold the grip tightly with both hands while riding, and please brake in a timely manner when necessary.

B: This bicycle has the function of brake power cut. The brakes will cut off the motor power to ensure safety of riding. Always check your brakes and cables before riding.



P.A.S. Control and display

Display Interface

After switching on the e-bike system, the display shows current speed and total distance except, battery indicator and assistance level

◆ To change the indicated information, press the MODE button to show in turn as follows:

Current Speed (Km/h) → Trip Distance (Km) Trip Time (Hour)\

→ Max. Speed (Km/h) → Avg. Speed (Km/h)

→ Motor-output (W) → Current Speed (Km/h).

◆ Switching PAS Off: There is a preset setting which allows your bike to cruise at a steady speed of 3.7 MPH (6Km/h), the letter "P" is shown at the screen. To engage this cruise control feature press and hold the "-" button for a few seconds until the letter "P" shows on the screen. To disengage this function press the brakes.



Manual Clearance Function

Among of all functions, Trip Distance, Trip Time, Max. Speed and Avg. Speed, can only be cleared manually.

If the above functions need to be cleared, After switching on the E-bike system and parking the E-bike, please to hold the MODE button and the DOWN button for 2 s, the above functions can be cleared at the same time.

Press the power button (M button) on the handlebar controls located near the left grip to tum it on.

You can adjust the pedal assist power level to have more power by hitting the [+] button (right button) and can move to a lower level power by hitting the [-] button (left button).

When not riding your bike, you can tum off the meter by holding down the power button (M button) for several seconds.

P.A.S. Control and display

The LCD meter monitors pedal assist, speed, odometer, trip distance, riding time, and battery energy level.

To turn the meter on, make sure the battery is fully inserted into the bike.

Press the power button (M button) on the two button selector located near the left grip on the handlebars to turn the meter on.

You can adjust the pedal assist power level to have more power by hitting the [+] button (first button top to bottom) and can move to a lower level power by hitting the [-] button (third button top to bottom).

When not riding the bike, you can turn off the meter by holding down the power button (M button) for several seconds.

1-Power On/Off

Press the M button to power on the display. To power off the display and power supply to the bicycle press and hold for 3 seconds

2-Pedal assist (PAS)

The system has 5 P.A.S. assistance modes, use the + -buttons to scroll between modes

3-Riding Modes

Walk: Walking boost, Cruise: Constant speed cruise, PAS: Pedal assist levels.

4-Multi function display

Press the M button on to switch between Total Mileage: ODO, Single Mileage: TRIP A, Single Mileage: TRIP B, current Voltage VOL, operating Current:

CUR, Display Booting Time: TM, Riding time

The riding time will be saved up to 100 hours unless you reset it

5-Battery level indicator (Energy bar)

Indicates battery level, there are 5 levels, each segment stands for 20% charge

6-Speed Indicator

Shows the speed either in MPH or Km/h

8-P.A.S. Level

Indicates the level of motor assistance. Use the +-buttons to switch between PAS levels

9-Lights: Turn your display ON, then press and hold the UP arrow for a few seconds to turn on the lights. To turn them off press and hold again the UP arrow.



Error codes

In the event of a system malfunction the screen will display an error code. You can troubleshoot the problem by identifying the code from the following chart.

Error code	Definition
0	No error. Normal system
1	No function, reserved for other settings
2	Brake sensor error
3	P.A.S. Sensor failure
4	6 km/h capped top speed
5	Real time cruising
6	Very low battery
7	Electric motor failure
8	Throttle failure
9	Controller failure
10	Communication receiving error
11	Communication sending error
12	MS Communication error
13	Led light failure

User-adjustable settings

The display allows for a series of adjustments on the settings, however some are reserved exclusively for the use of a certified technician of the manufacturer. For those others within reach of the end user please follow the below list of settings.

To enter the program mode, press and hold the UP and DOWN arrows for a few seconds. Use the M button to navigate through the settings and up and down to change settings in each program. The settings will automatically save if you leave the display to go back to the home screen:

P01: Back-light Brightness (1: darkest; 3: brightest)

P02: Mileage Unit (0: KM; 1: MILE)

P04: Display sleep time (0: never, other figures refer to the sleep time) Unit: minute

P08: Speed Limit

Range: 0-100km/h, parameter 100 indicates no speed limit.

This parameter limits the max. speed of the vehicle.

For example, input value 25 means the max. speed is 25km/h, the vehicle traveling speed can only reach the preset value.

Deviation: ± 1 km/h (applies to both PAS and throttle mode).

Note: The above-mentioned values are measured by metric unit (kilometers). When the measuring unit is switched to imperial unit (miles), the speed value displayed on the panel will be automatically switched to corresponding imperial unit, however the speed limit value in the imperial unit interface won't change accordingly.

P16: ODO Zero-Out: Long press the upper key for 5 seconds and ODO will zero out.

Charging methods and steps

1. Always charge the battery fully for the first time. When the battery level is low (20% or less), plug it to charge it, use only the original charger provided with the battery.

2. Insert the charging pin of the charger into the battery charging plug; pay attention to the direction of the pin, do not insert any other foreign objects or dismantle the battery case.

3. Connect the power plug of the charger to a household AC power outlet. Please do not insert the plug into the AC around water or with wet hands, avoid causing electric shock hazards.

4. Please check the charger indicator, when the LED indicator on the charger is red, it indicates the battery is charging, when the indicator is green, it indicates the charge is complete.

5. After charging is complete, please pull out the charger power plug from the household AC and disconnect the plug from the battery.



Attention!

Important:

- Make sure to use the original charger.
- All charging plugs must be inserted tightly
- The average charging time of the whole battery takes about 5 hours
- Keep away from children
- Do not charge the battery under the rain or in wet environments.

Battery mounting and removal

Your e-bike may come with the battery installed and pre charged. You will seldom need to remove the battery, but shall you need to remove it for replacement or to perform a deeper cleaning on your e-bike you can easily remove it:

Park the electric bicycle, turn the key clockwise while holding it in that position (Fig. A), with the other hand, push sliding up the battery free (Fig. B) hold the battery with both hands and gently pull it out.

use both hands to pull the battery out.

When placing back the battery into the e-bike, make sure the battery makes proper connection with the socket on the e-bike (Fig. C)

You only need the keys to lock/unlock the battery, they key is not required to operate the bicycle.

We strongly recommend you to store the key and spare key separately and in a safe place.



Fig. A



Fig. B

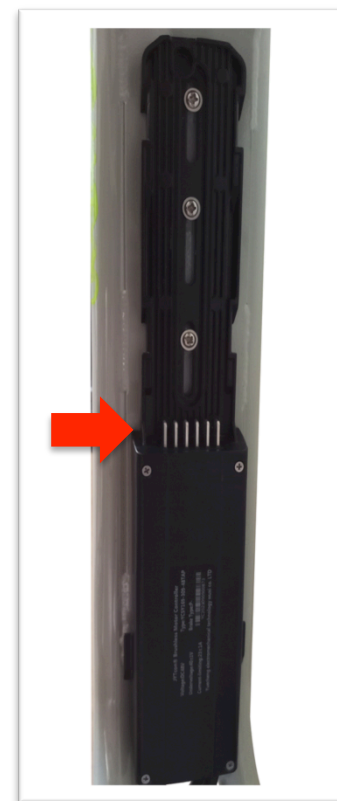


Fig. C



Danger
Electric
shock risk



Front wheel installation

Read the instructions carefully to identify and understand the components of the electric bicycle such as pedal, seat post etc. And the name of relevant spare parts.

When specialized servicing of bike is required, please go to an authorized EMOJO repair shop or store or another trusted bike professional.

1. Assembly of the front wheel unit:

Identify the nuts and the lock washers (Fig A) necessary for the front axle assembly.

Assemble the front wheel unit onto the front fork, pass the lock washers thru the axle and lock the tab into the groove of the front fork (fig. B).

Tighten the nuts on both sides of the hub with a wrench (fig C).

Attention: when assembling, make sure the disc brake and the brake caliper are on the same side (left side), the disc brake must slide into the gap between the two brake pads of the disc brake caliper (Fig. D), make sure the wheel turns freely and does not rub against the brake pads when the front brake is not been pressed.



Fig A

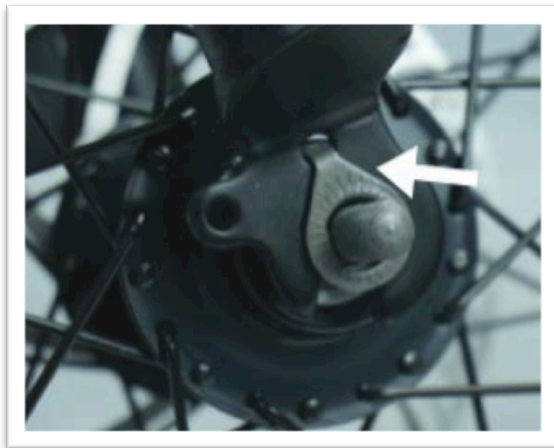


Fig B



Fig C

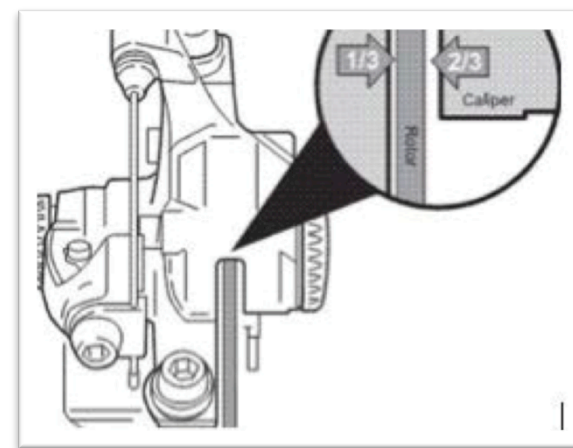


Fig D

Lights

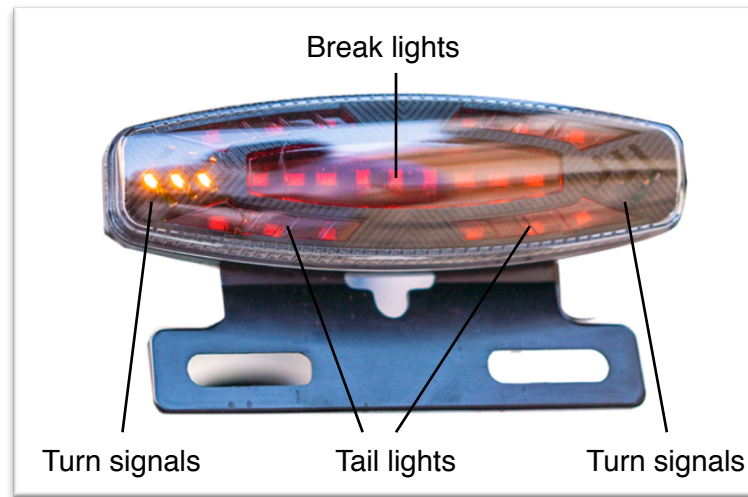
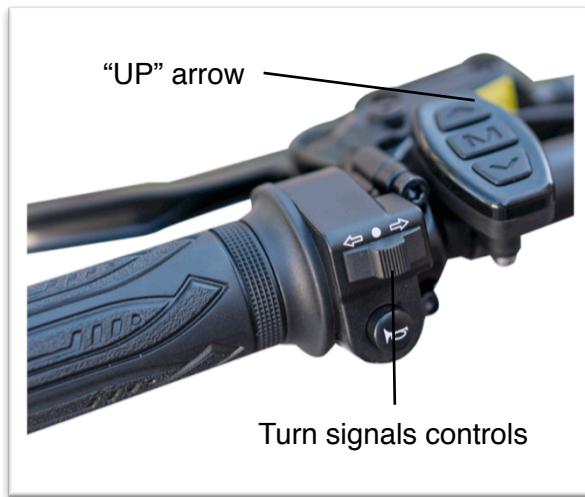
Your e-bike comes equipped with front and rear lights that work with the main battery, no additional batteries or charging is required for the lights.

The front lights have Day Running Lamps (DRLs) that are on all times as soon as you turn on your e-bike, this is a feature of passive safety which makes you more visible to cars and pedestrians even during the daylight. *You cannot turn off the DRLs.*

The tail light has a brake light which turns on as soon as you squeeze any of the brake levers.

To turn on the lights, first make sure you have turned on your e-bike, then hold for a few seconds the UP arrow, both, front and rear main lights will turn on. To turn them off, repeat the same process, hold down the UP arrow for a few seconds.

Turn signals: Your e-bike is equipped with rear turn signals, slide the button on the left side of the handlebar to the side you wish to turn, slide the switch to the center position to turn them off. **Turn signals do not turn off automatically once you turn.**



Front DRL's

Brakes

Your electric bike is equipped with disc brakes for maximum reliability. Applying hand pressure to the brake levers will engage the brake pads against the brake rotor, creating friction and slowing down the wheel.

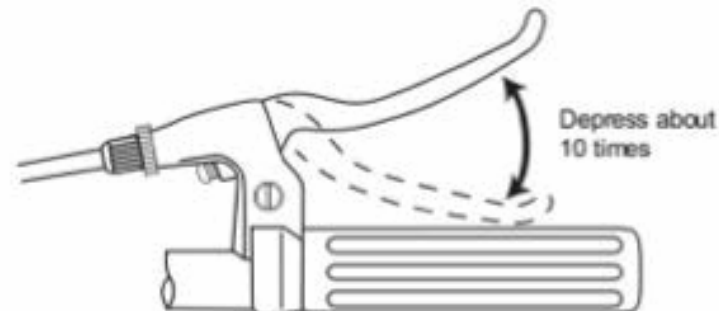
The more hand pressure applied to the brake lever, the faster the bike will come to a stop. Check the front disc handle gap by depressing the brake lever about 10 times to check that everything is operating correctly (Fig. 1).

If necessary you can adjust the brake by turning the dial on cable (shown with an arrow). Your front wheel must spin free at all times without any friction from the brake when not applied.

The rear brake should always be applied before or along with the front brake. Applying only the front brake to slow or stop at high speeds may result in the rider being ejected from the saddle and continuing forward over the handlebars. It is best to apply even pressure to both brake levers when slowing or stopping. Bicycles equipped with disc brakes will occasionally make a slight scraping noise when the wheels are turning without the brakes being applied. This is normal.

Make sure that the brake lever does not contact the handlebar when full hand pressure is applied (b) The contact point should feel firm and solid. If the lever travels all the way to the handlebar or feels spongy, they may require service by a qualified bicycle technician. If the brakes are still not operating correctly, they may require further adjustment by an experienced bicycle mechanic.

Fig. 1



Front disc brake



Rear disc brake

Brakes

WARNING:

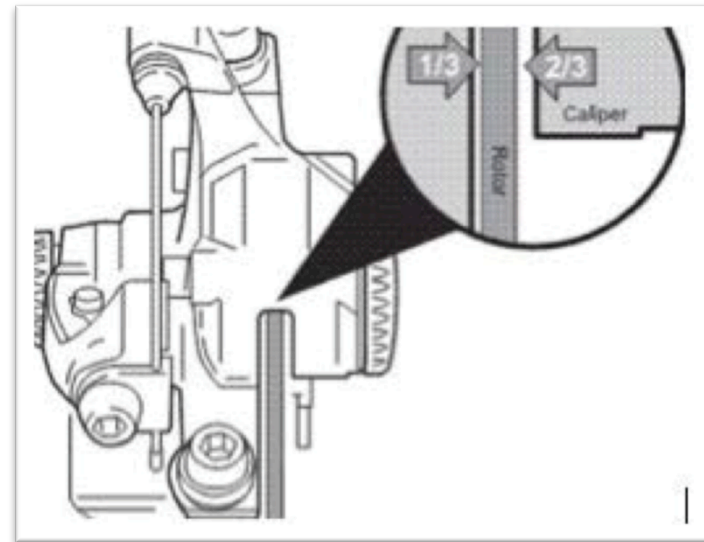
Disc brake rotors become hot during use. Do not touch or come in contact with the disc rotor shortly after use.
Wet weather will require a longer distance to stop.
Brake earlier and avoid sudden stops when riding in wet conditions.

New Brakes Bed-in Procedure

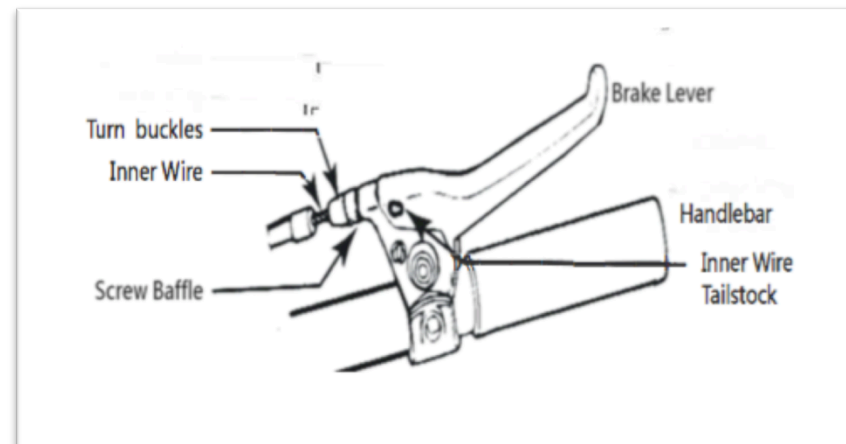
New brakes will require a "bed-in" procedure prior to your first ride which will ensure the most consistent and powerful braking feel. Find a safe riding area that will allow for moderate speed. Remain seated during the entire procedure for optimal results.

IMPORTANT: The caliper might need to be adjusted and aligned to ensure there is no constant friction when the brake is not applied avoiding unpleasant noises, premature wear or poor braking. If necessary, adjust your calipers by loosening the socket head bolts, and gently moving the caliper with your hand until is centered and aligned with the disc. While holding with your hand the caliper in the correct position, tighten the adjustment bolts again.

- A. When brake lever reaches 1/3 of unstressed state, the power will be cut out completely, when it is at 1/2, bike can brake completely.
- B. The distance between brake pad of front wheel and rim should not be more than 2mm, when the brake pads wear down, timely adjustment is possible, after adjustment, the brake pad should not interfere with other spare parts. When a worn brake pad reaches 1/2 of its thickness, it must be replaced.



Free rotation between the disc and the caliper



Pedals and tire pressure

Pedal Installation and Adjustment:

Take out pedals from the accessory box, install one of the pedals (pedals are marked with the letters "L" and "R" to indicate the side they belong to). When installing the pedals, insert the wrench stuck on the flat end of pedal axial head, and twist into the crank in clockwise direction.

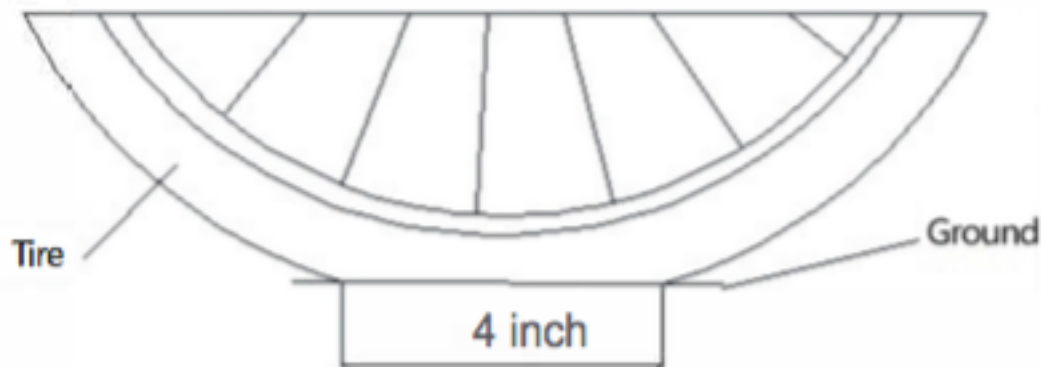
Tire pressure

Keep proper air pressure, the space between tire and ground contact is about 4 inches long when riding on the electric bicycle.

Inflate your tires to a maximum of **20 psi** (140 kPa).

Ridding on low-pressure tires will affect your range and will lead to premature wear and tear of the tires.

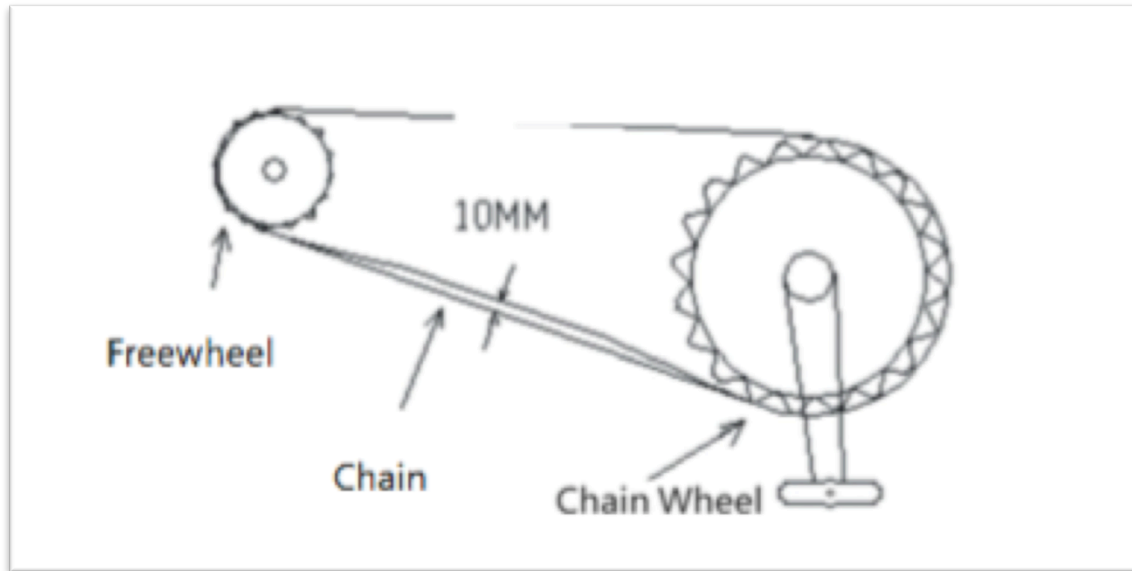
Always check your tires before riding and make sure they are properly inflated.



Chain

The Adjustment of Chain Tension

The over relaxation of the check and adjust regularly. The chain would cause chain failing thus threatening safety or damaging the motor. It is suggested to adjustment requirements: in case of single constant speed, when fixed gear, press the chain with hand, the range of the tension is within 10mm from horizontal line.



Common faults and maintenance

Power on, there is no indicator on meter:
Push thumb throttle, the motor does not work:

Check the battery power, if battery is low, it is possible that the power will fail, or some blown fuses of the controller are burned out.

Motor kicks in, but the speed is low

Check whether the speed controlling wire of left brake levers fail, and whether the connector of the controller or motor fails. Check whether the brake is locked, the tightness of chain is proper; the air pressure of tire is proper; check whether the battery power is full, if not, please charge the battery.

Short range/mileage

If the battery has not been in use for a long time, please recharge the battery in advance. Check whether the brake rubs against the rim because of tightness, and whether the tire pressure is full. Check whether the battery is full, if not, please recharge it.

Abnormal noise of the e-bike

Check that all screws and bolts are properly tightened. Check your brake calipers are properly aligned with the disc rotor.

Battery not charging

Check the charger and power. Check whether the battery connection is in good condition and is stable. Check whether the charger plug is properly inserted into the battery. Check for any blown fuses if applicable or any disconnected wiring among all the quick connectors along the e-bike.

Troubleshooting

If your electric bicycle experiences a sudden power shut off while in use, this can be related to several reasons but the problem has an easy fix.

Problem

The LCD starts to blink repeatedly followed by a power shut off. (Make sure the battery is not depleted)

1-Check the motor quick connector on the right side by the tail of the frame. Fig. 1

If the battery is not depleted and the quick connector cable is all in place, contact your EMOJO authorized dealer or the manufacturer's tech support by email at support@emojobike.com



FAQ's

Q. How long does it take to fully charge the battery?

A. Depends on the state of discharge but around 4-5 hours if completely discharged.

Q. What are the running costs for an EMOJO electric bike?

A. You will have no worries about rising fuel prices at the pumps. All our electrically powered vehicles use household electricity. The average cost per full charge is about 10 cents per charge. If you charge the battery every single day for a year, it would cost you about \$35 per year.

Q. Can I ride up hills and against strong

headwinds on my electric bike?

A. Yes. One of the main advantages of cycling on an electric bicycle is that it literally flattens hills and increases your average speed when tackling inclines and headwinds. If you provide a reasonable amount of effort, you should be able to tackle anything from a 1 in 10 (10%) gradient up to a 1 in 7 (14%) gradient. Pedaling along with the motor is strongly advised to avoid overheating of the motor and to extend the battery life.

Q. Do I need a driver's license, insurance or registration?

A. No, you don't. According to Federal law, electric bikes that are under 750 watts are classified as bicycles. For all intents and purposes, it's simply a bicycle that requires very little pedaling to travel 20 MPH (32 Km/H), saving you time and hassle. Check your local state laws for requirements.

Q. Do I need to pedal an electric bike?

A. No, but it helps to prolong battery life. The motor on our bikes is both throttle and pedal assist controlled, allowing you to decide how much power you desire. Have you ever tried to cycle when speeding downhill on your normal bicycle? It's just like that. The motor is propelling you faster than you're cycling so there is pretty much no resistance, it's merely a formality!

Q. What happens if I get a flat tire?

A. The tires on our bikes are the same as conventional bicycles. Simply replace the tube with a tube of the right size and inflate it. No special tires or parts will be needed.

FAQ's

Q. What happens when I use the brakes

under powered assistance?

A. All our bikes are equipped with brake levers that have a built- in safety switch that automatically cuts off the motor

B. power under normal braking conditions. This not only ensures a safe un-powered stopping feature, but also protects the motor under braking conditions so that it isn't working against the brakes.

Q. How far will the bike take me?

A. This all depends on a few factors. Cycling with pedal assist along a straight road under normal conditions, the standard battery should last about 65 miles. Cycling up steep hills will obviously take more energy out of the battery and factors such as road surface, wind resistance, weight of the rider and tire pressure will affect your range.

The range with throttle only lasts about 20 miles (35 km)

Q. How do I know when the battery is low?

A. The bicycles have easily visible indicators located on the meters that show the amount of juice left. If it is getting low

and you don't think you will make it to your destination, you can switch off your motor and keep it just for the difficult bits.

Q. Do I have to wait for the battery

to empty before I charge it?

A. No. The batteries we use are Lithium-ion batteries which do not suffer from 'memory effect'. This means that there is no need to discharge a battery completely before you recharge it

again. You can partially recharge the battery at any time without reducing its voltage or lifespan. We recommend recharging the battery after every use, regardless of how far you rode.

Q. Can I put a child's trailer?

A. Yes, you can certainly add a trailer to your bike.

We suggest contacting your local dealer for approved trailers.

Q. Can I put the electric bike on a bike rack?

A. Yes, just make sure that the bike rack can hold the weight of the bike. We advise taking the battery

B. off to make it easier to lift and to keep the battery

Storage and disposal

Please follow these steps to prolong the life of your EMOJO bike

1-Always keep your electric e-bike protected from the rain, snow, hail, etc. Always store it indoors or in a closed garage.

2-Do not leave your electric bike exposed under the direct sunlight for long periods or time

3-If rain or snow catches you suddenly while riding your e-bike will be ok but you must find shelter away from the elements, the battery, display and motor are not designed to perform under heavy rain or snow.

4-It is highly recommended that you use a damp cloth to clean your electric bike, do not use a water hose nor a pressure washer to wash your bike, electronic components may get damaged. If the tires or parts of the frame are heavily loaded with mud or dirt you can use a wet brush to scrub it away rather than pressure-wash your e-bike.

5-If the battery is damaged or no longer working, dispose it according to the local laws, do not throw away with the regular trash. Consult recycling centers. Batteries are considered electronic waste.

6-Do not attempt to open, repair, upgrade, retrofit or refurbish the battery and or the motor, they are not serviceable by the user.

Contact us

At EMOJO we are committed to the consumers and the experience first, put a smile on the face of each of EMOJO rider and revive childhood memories when riding a bike meant freedom regardless of your age or gender, life doesn't stop and neither should you, that's why we say: "RIDE LIFE"

Should you have any comments, questions or just want to say hi, feel free to throw us an email or give us a call:



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