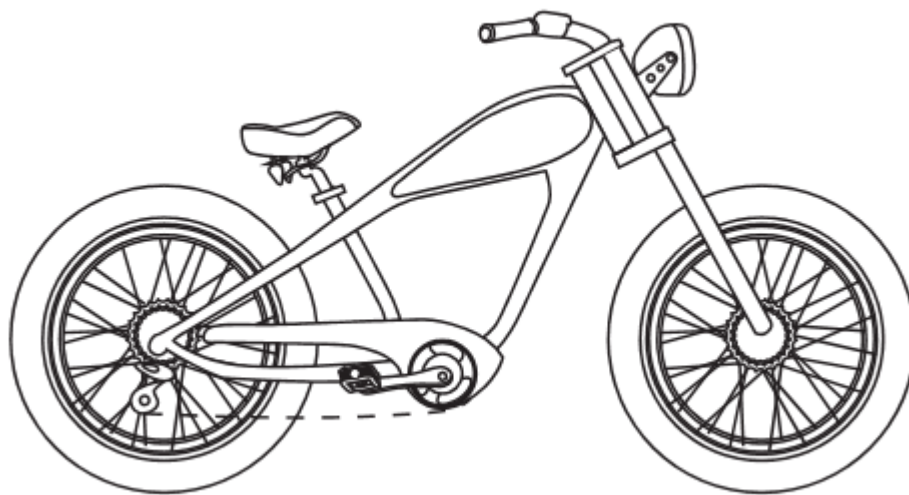




Voltage Cruiser Bikes



Commander and Road Boss User's Manual

Warnings and caution statements:

Electric bikes can be dangerous to use. The user or consumer assumes all risk of personal injuries, damage, or failure of the bicycle or system and all other losses or damages to themselves and others and to any property arising out of or as a result of using the bicycle.

As with all mechanical components, your bicycle is subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the design life of a component has been exceeded, it may suddenly fail, possibly causing injuries to the rider. Any form of crack, scratches or change of colouring in highly stressed areas indicate the life of the component has been reached and should be replaced.

If you have an impairment or disability such as visual impairment, hearing impairment, physical impairment, cognitive/language impairment, and/or a seizure disorder, consult your physician before riding our bikes.

For replacement parts, technical information, and warranty assistance, please contact Voltage Cruiser Bikes.

PLEASE NOTE: This manual is not intended as a user, service, repair or maintenance manual. Please seek assistance from a qualified technician for service, repairs, or maintenance. Your insurance policies may not provide coverage for accidents involving the use of this bicycle. To determine if coverage is provided, you should contact your insurance company or agent. Do not disassemble, modify, or replace electrical parts.

This manual contains many "Warnings" and "Cautions" concerning the consequences of failure to maintain or inspect your bicycle and of failure to follow safe cycling practices.

The caution symbol ▲ can be seen throughout this manual, and indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death or is an alert against unsafe practices.

Key Parts Operations:

Hand Throttle Control.

When the pedal assist mode is set to “0”, the pedal assist function does not engage and the throttle will NOT accelerate the bike forward. The throttle control is operated on the right-hand side. You control the throttle by twisting throttle attachment. The further the throttle switch is from its resting position, the more power is delivered to the motor to accelerate the bike. When you want to slow down, you simply release the throttle and let it return to its resting position and simultaneously apply the brakes. This bike also comes with a throttle override function, which allows the throttle to work in pedal assist modes.

Brakes.

Your electric bike is equipped with Hydraulic disc brakes for maximum reliability. Applying hand pressure to the brake levers will cause the wheel brake to cause friction against the brake disc, slowing the wheel. The more hand pressure applied to the brake lever, the faster the electric bike will come to a stop.

▲ The rear brake should always be applied before and while the front brake is applied. 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. If so, then the brakes must be adjusted by increasing the tension on the cable.

With Hydraulic Brakes it is vital they are bled properly and by a certified bike

mechanic – please service and maintain your brakes every 6 months or whenever necessary. Brakes are a critical part of the bike and are essential that both are working properly.

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.

Riding On Hills.

If you encounter a hill that causes the speed of your bicycle to drop below 7 miles per hour (11km/h) on electric power only (throttle mode) with the throttle fully applied, you should pedal to assist the bicycle up the hill.

Failure to pedal can overstress the motor and controller, possibly causing those components to overheat.

Failure to pedal up steep hills to assist the bicycle also will overstress the battery reducing its capacity and shortening its useful life.

Riding In Adverse Weather Conditions.

▲ Your electric bike is built with components that are sealed against dust and water, and can safely operate in most weather conditions. To ensure the longest life of your components, however you should avoid riding in wet weather when possible.

The battery, however, cannot handle heavy raining conditions. You should refrain from using the bicycle in heavy or long-lasting rain (more than 3-4minutes).

Never charge or use the USB outlet after riding in the rain. Park the bike in a dry, warm place and wait at least 24 hours before charging or using the USB port.

Since electric bikes are faster and heavier than normal bikes, when riding in Wet weather, you should use extreme caution. You are more likely to fall from a

wet road surface when traveling at high speed. Heavy electric bikes also take longer to slow down and the required stopping distance in wet weather is even greater. Be sure to leave ample room for stopping and brake gently and evenly to avoid falling.

Maintenance.

Some service and maintenance can and should be performed by the owner, and require no special tools or knowledge beyond what is presented in this manual.

You should have your bicycle and its components checked periodically by a professional bike repair dealer for indicators of stress and/or potential failure, including cracks, deformation, corrosion, dents, inappropriate use, or abuse.

These are important safety/maintenance checks and very important to help prevent accidents, bodily injury to the rider and shortened product life.

The following are examples of the type of service you should perform yourself.

Break In Period: Your bike will last longer and perform more efficiently if you break it in before riding it hard. Control cables and wheel spokes may stretch when a new bike is first used and may require readjustment. Your

Mechanical Safety Check (below) will help you identify some things that need re adjustment.

Even if everything on your bike seems to be in working order, it is best to take your bike back to a dealer periodically for check-ups. Dealers typically suggest you bring your bike in for a 30-day check-up.

Another way to judge when it is time for the first check-up is to bring the bike in after three to five hours of on the road. Of course, if at any time you suspect something is wrong with the bike, take it to your dealer for a check-up prior to riding it again.

Mechanical Safety Check – Perform the following maintenance after every long or hard ride, and especially if the bike has been exposed to water or grit; or at least every 160 Km.

Clean the bike (consult the drive system manufacturer's user manual for

specific cleaning instructions or warnings). Lightly lubricate the chains rollers with a good quality bicycle lubricant. Wipe off excess lubricant with a lint-free cloth. Lubrication is a function of climate. Talk to a dealer about the best lubricants and the recommended lubrication frequency for your area.

Maintenance

Squeeze the front brake and rock the bike forward and back. Make sure everything feels solid. If you feel a clunk with any forward or backward movement of the bike, you probably have a loose headset. Have your bike checked by your dealer. If either brake lever fails, don't ride the bike.

Adjust or have your dealer check and repair or replace.

Lift the front wheel off the ground and swing side to side. If you feel any binding or roughness in the steering, you may have a tight headset. Adjust as necessary or have it checked by your dealer.

Rock one of the pedals toward and away from the centreline of the bike; then do the same with the other pedal. If anything feels loose, have your dealer check it.

Examine the brake pads. If they are starting to look worn or not hitting the wheel rim squarely, adjust or have the dealer adjust or replace them.

Check the control cables and cable housing. If you observe any kinks or fraying, replace them or have your dealer replace them.

Squeeze each adjoining pair of spokes on either side of each wheel between your thumb and index finger. They should feel the same. If any spokes feel loose, have your dealer check the wheel for tension and trueness.

Check the tires for excess wear, cuts, or tears. If you are unsure whether your tires are worn or damaged, ask your dealer, who can replace them if necessary.

Check the wheel rims for excess wear, dings, dents, and scratches.

Consult your dealer if you see any rim damage.

Check to make sure that all parts and accessories are still secured, and tighten any which are not.

Check the frame, particularly in the area around all tube joints, the handlebars, the stem; and the seat post for any deep scratches, cracks, or discoloration.

There are signs of stress-caused fatigue and indicate that a part is at the end of its useful life and needs to be replaced.

If the chain won't shift smoothly and quietly from gear to gear, the derailleur is out of adjustment, you should adjust or see your dealer.

Thanks for Purchasing from Voltage Cruiser Bikes, the Commander or Road Boss electric bikes are an unique style high quality e bike with high profile components.

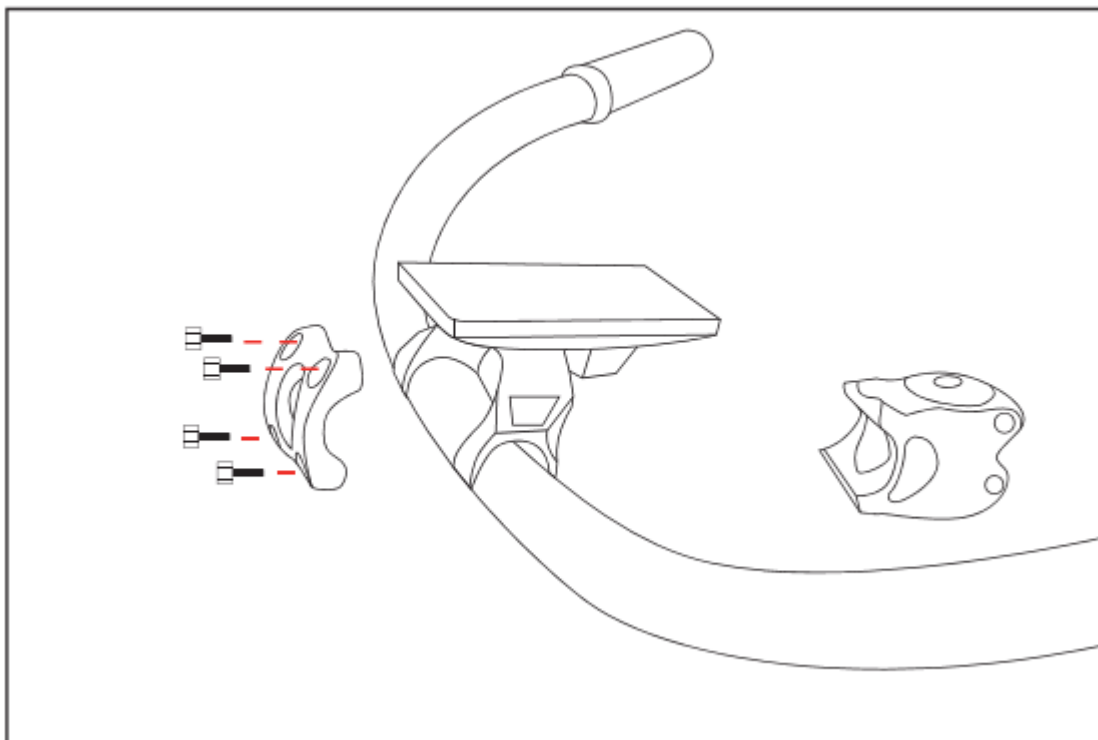
After receiving your new bike please check exterior of package, if you find the box is badly damaged, please contact us by email: support@voltagecruiserbikes.com in case your bike is damaged.

Open the box and take out your bike carefully, you should have the following items.

1 x Commander/Road Boss. 1 x Charger. 1 x set Pedals. 1 x Front Wheel. 1 x Headlight.

Carefully remove all zip ties and packaging be careful around edge of frame, cables, tyre and rim.

Follow these steps to assemble your bike.



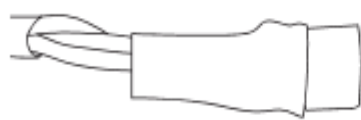
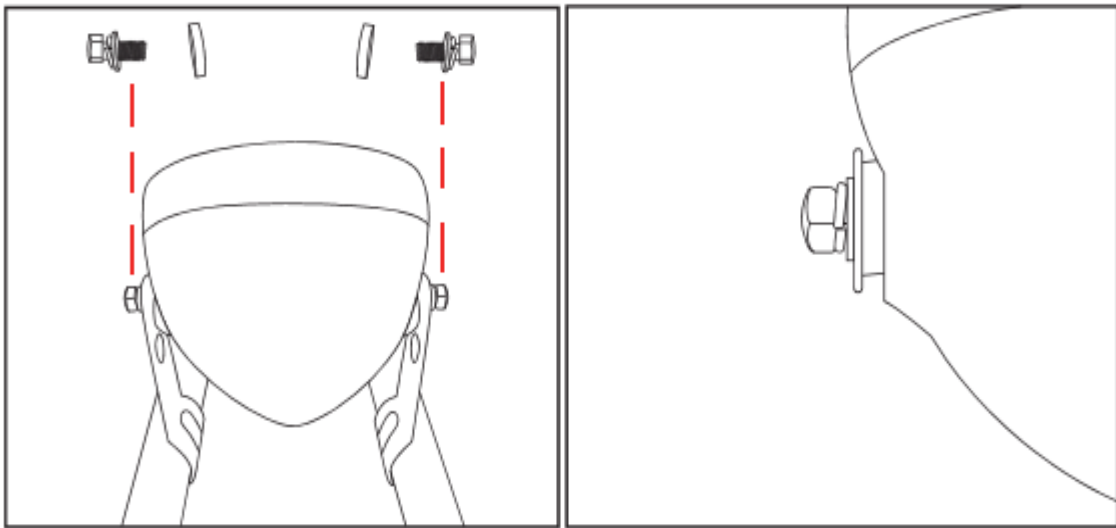
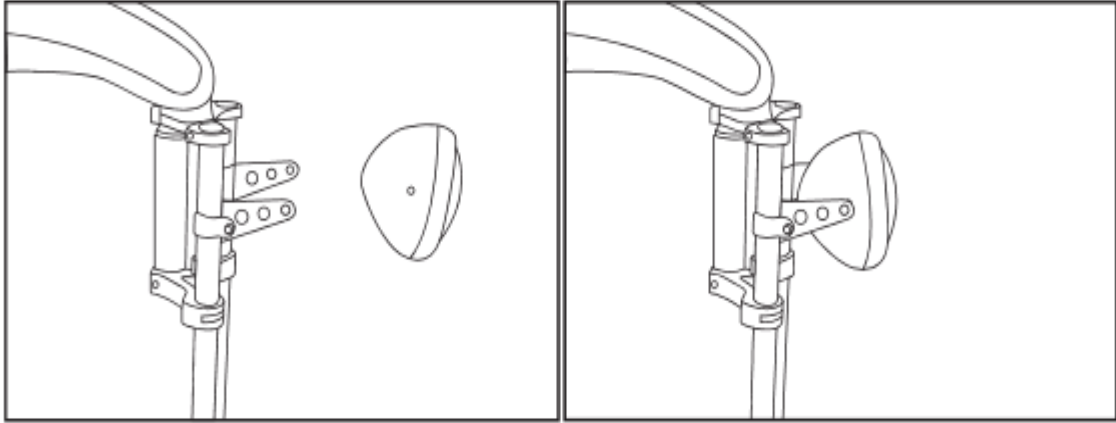
Install Handle Bar

Loosen the bolts to put handle bar in between.

Use the reserved 4 bolts to install handle bar as shown in the picture.

Adjust handle bar angle and fasten the 4 bolts one by one to 20N.M.

Tip #1 Leave bubble wrap/packaging around Grips and Brake levers until front wheel & brake disc is in place between the calipers, this will help stop brake levers being activated/used.



headlight

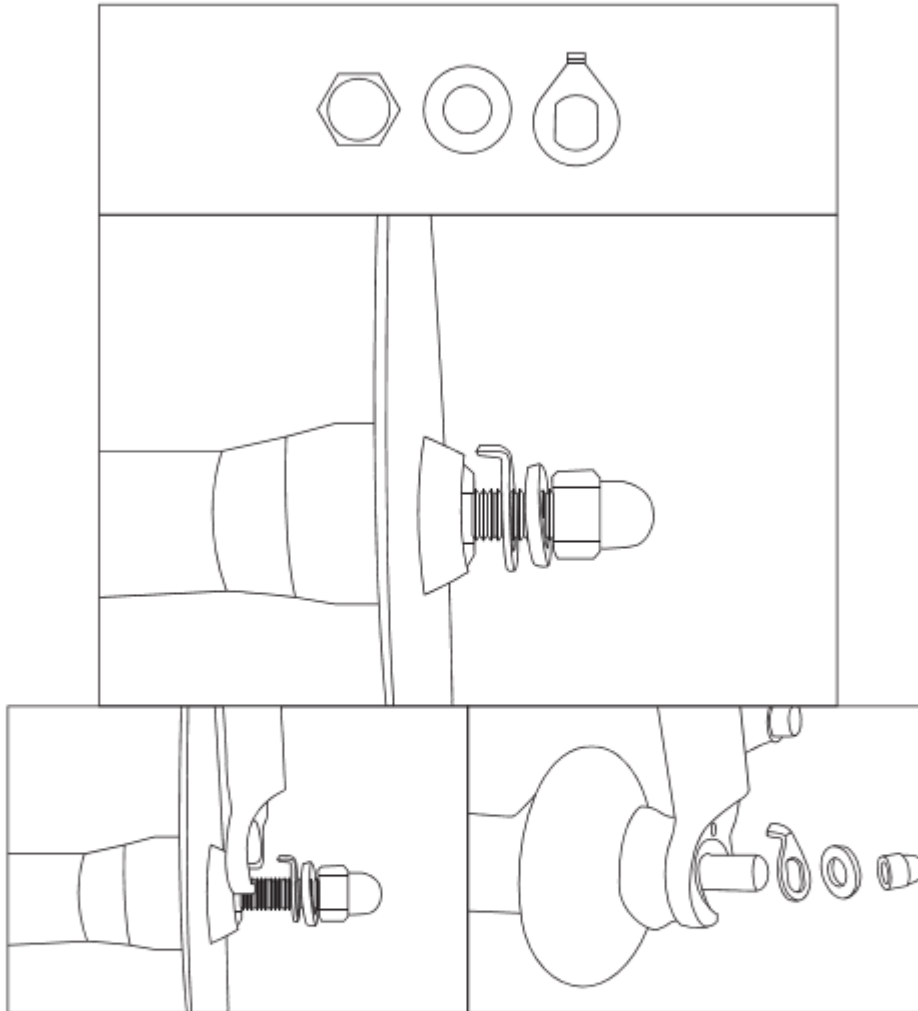


frame

Install Head Light

Use reserved bolts and bushing to install head light. Adjust height and angle, then fasten all the bolts.

Connect the light power cable.



Install Front Wheel

Make sure the brake disc is placed in the center of caliper gap and front wheel can rotate freely without any noise.

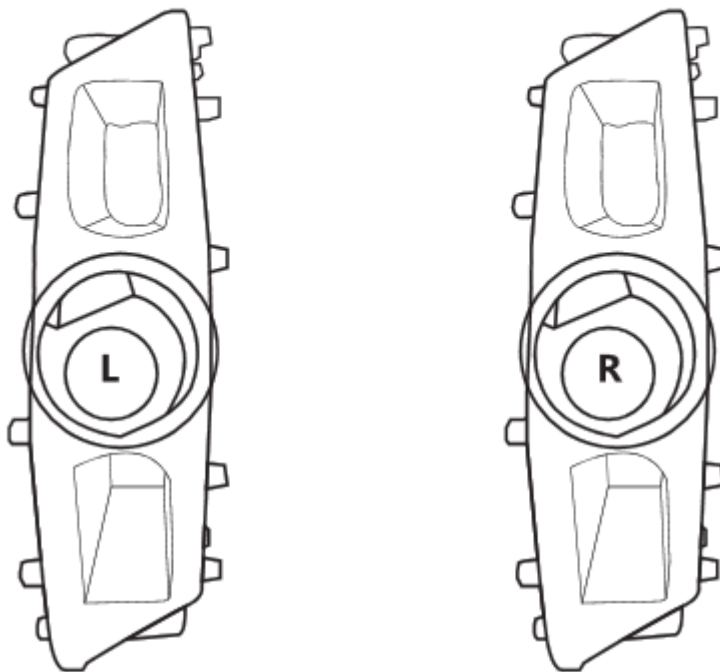
When the brake disc is not in the gap, DO NOT pull brake lever.

⚠ Check the nuts before riding! Loosen nuts can cause serious danger.

Remove black plastic tab that is between brake caliper gap before inserting wheel.

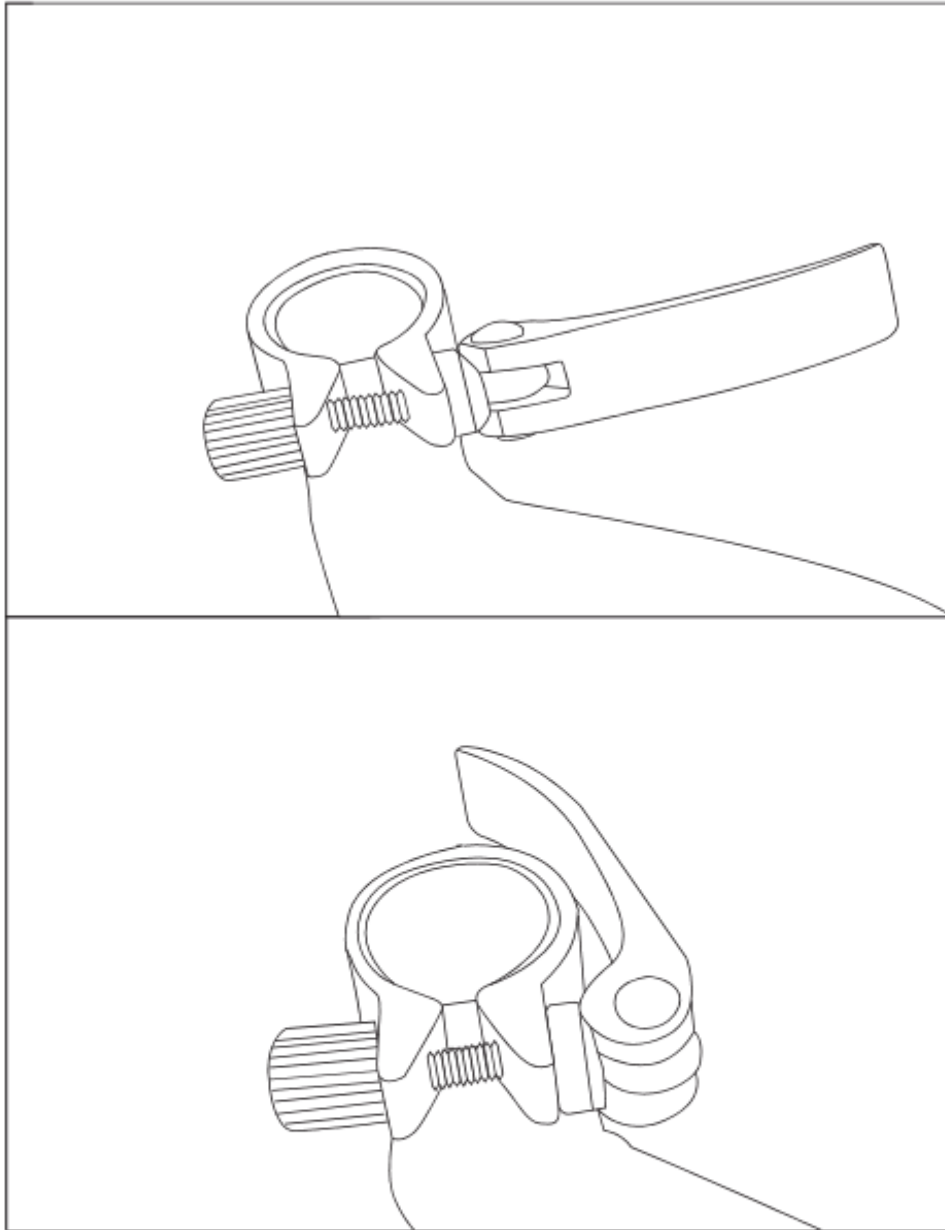
Tip #1 Put saddle on before front wheel, so the bike can be turned upside down.

Tip #2 If installing Mud Guards do this before putting on front wheel, it's much easier.



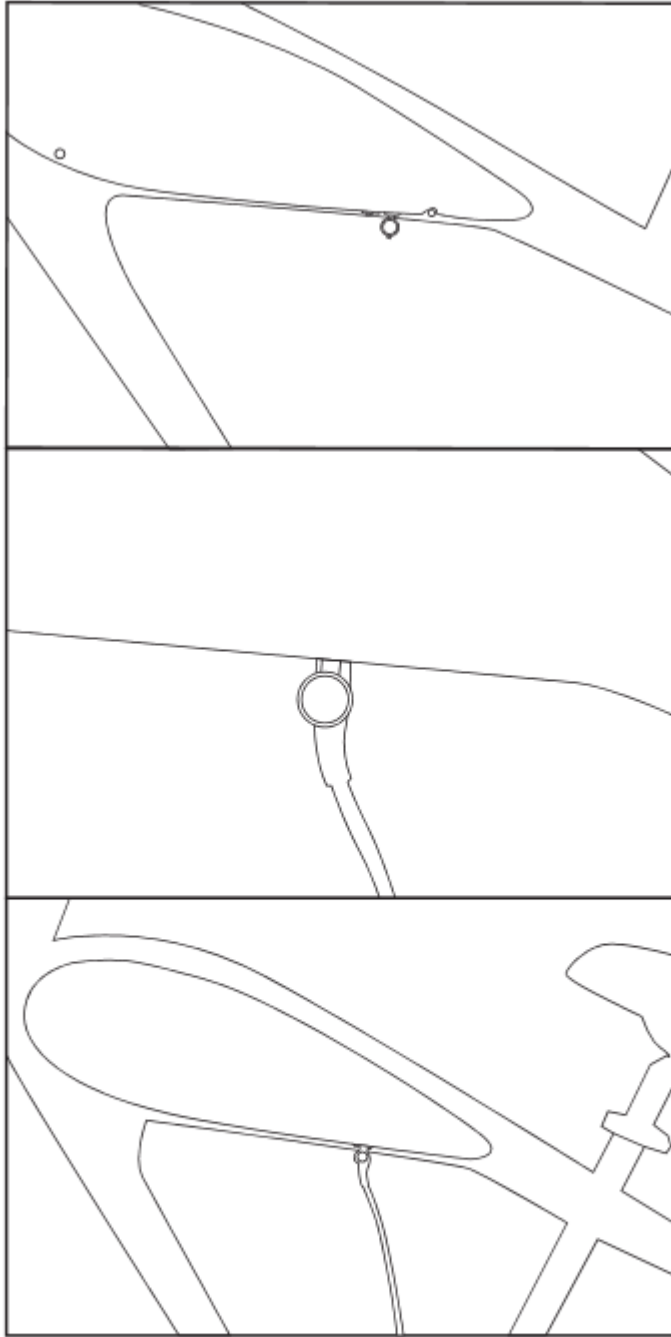
Install Pedals

Use the pedal marked with an "L" on the left side and the right pedal marked with an "R" on the right side (side with drivetrain gears). The right-side pedal has a right-hand thread (removes counterclockwise, installs clockwise); the left side pedal has a left-hand thread (removes clockwise, installs counterclockwise). Be careful to not cross thread the pedals.



Insert, Remove or Adjust Saddle Height

 Make sure it's fastened before riding.

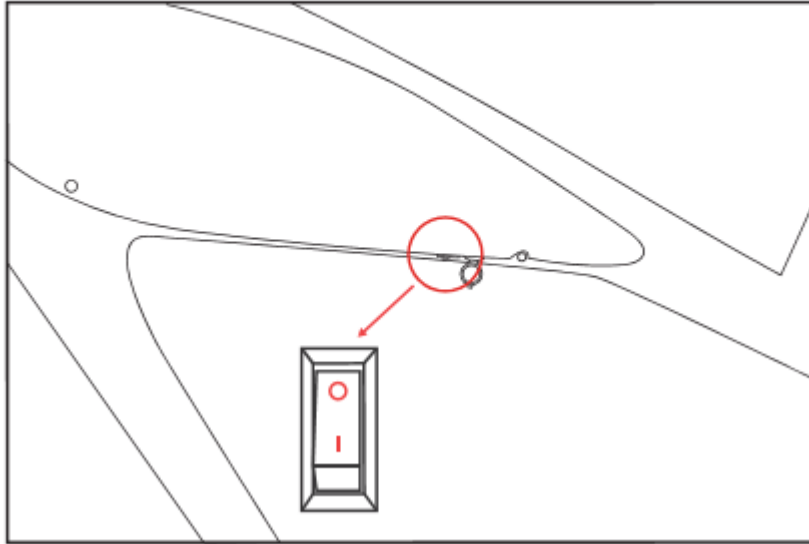


Charge Battery before Your First Ride

*On charger adapter, red light stands for charging, while green light stands for charging finished.

Battery Warning ⚠

- Lithium battery capacity drops down by times it's been used for. genuine battery provides 600~800 charging cycles.
- Stay away from extreme environment. Most suitable temperature for battery is 14 °C ~113°F . Do not approach heat, fire, inflammable, and prevent battery from falling and getting wet. Do not insert metal into battery.
- Battery indicator bar on LCD display sometimes is biased. If you want to get more accurate indication, try to run totally out of battery then charge it charged to full. BMS will reset the indicator randomly.
- Frequent accelerating and brake drain your battery much more quickly than you expected. When you don't have enough battery power, twist throttle gently to be safe back.
- 8 hours not using the battery still consumes around 5% battery capacity to stand by and support BMS.
- If you are not going to use the battery for long time, take out the battery out of your , and store it with 50% battery left. Do not use battery when it has less than 10% capacity left.
- Our bike is water proof but only splash proof. Please do not put the bike in water deeper than 7.0 inch, otherwise controller box has a risk of mould.
- If you keep charging your battery more than 12 hrs but not full yet, stop charging and contact with as soon as possible.

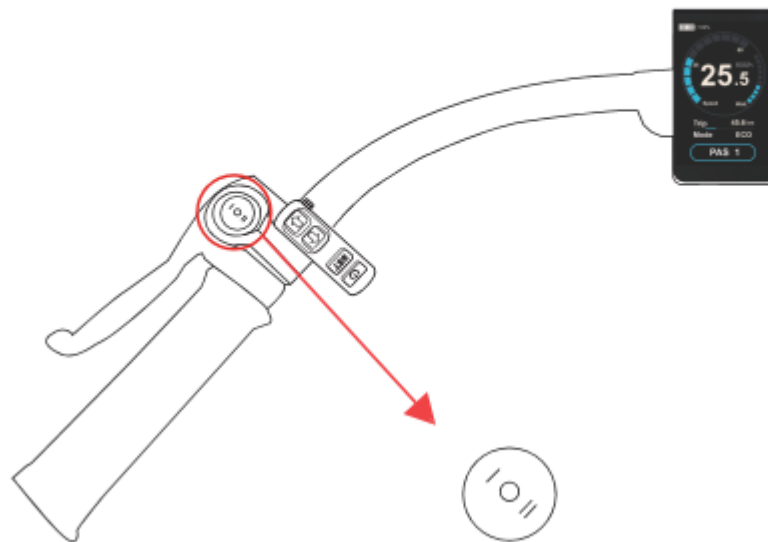


Power ON/OFF your battery

Beside the charging port, you'll find a separate switch to power ON/OFF your battery.

Make sure switch on before your ride, and off after ride.

It helps protect the battery from draining itself.



Head Light Control

On the handle bar there is a separate switch for head light Push the button down to:

- Downside: High Beam
- Upside: Low Beam

Don't forget to switch off the light and battery when you finish riding. This operation helps a lot with your battery lifetime.



LCD Brief Manual

- To switch on the eBike system, Press power button on handle bar. Same way to shut off.
- Press and hold SET button for 3 seconds to enter settings. Password: 0118
- USB phone charging port is located at the back of controller keypad. Remove rubber cover to access. Press and hold SET and Up button for 5 seconds to activate USB charging. Same way to deactivate USB charging.

Troubleshooting

If there are errors about the electronic control system, the error code will appear automatically.

Error Code	Definition	Solution
1	Current error or MOS damaged	Replace controller
2	Throttle Abnormality	Disconnect throttle wire (located in controller box, or in front of handle bar if the bike has water proof quick release connector) to see whether the ERROR code disappears. If it disappears, replace throttle.
3	Motor Abnormality	Re-connect motor wire (located underneath chain stay at right side). If it still doesn't work, replace a new motor.
4	Motor Hall Abnormality	Contact with seller, return full rear wheel to replace a motor rotor.

5	Brake Abnormality	Disconnect 2 brake lever wires (located in front of handle bar) to see whether the ERROR code disappears. If yes, replace the brake lever and reconnect brake lever wire to controller.
6	Under voltage	Fully charge the battery
7	Motor stalling	Do not block motor from rotating freely
8	communication controller receiving error	Disconnect all wires (brake lever, display, throttle, and motor) then reconnect. Check all connectors are in good connection.
9	communication display receiving error	

VOLTAGE CRUISER BIKES LIMITED WARRANTY

To make a warranty claim always keep handy the vehicle model, date of purchase, vehicle serial number as well as information from the retailer where you purchase the vehicle from.

The warranty is limited to the terms listed below:

Motor and controller: 1 year for parts, 3 months for labor

Frame: 3 years, 1 year for labor

Charger: 1 year for parts

Battery: Warranty on the battery starts the date of purchase of the vehicle as new. The battery is sealed and cannot be opened or fixed. The battery should not have a percentage of nominal charge retention of 60% or less. Misuse of the battery, negligence or attempt to open or repair it will void the warranty.

General vehicle: The vehicle is backed up by a 1-year main warranty, certain components listed on this chart or consumables may be subject to a different period of coverage or not included in this warranty.

Consumables: Components subject to wear are not covered by the warranty: Tires, inner tubes, brake lines, brake pads, basket, wheel lining tape, light bulbs, LEDS, fuses, etc.

If the warranty is void for any reason the customer shall bear any repair or replacement costs resulting from vehicle misuse, negligence or abuse.

Always follow care and preventive maintenance procedures

Always keep receipts from any services performed to the vehicle by an authorized distributor or service center.

The warranty will be voided by any of the following circumstances:

- (1) Failure to follow all directions or recommendations listed in this warranty and user's manual.
- (2) Cycling collision, accident or vehicle damage caused by careless parking or storage.
- (3) Acts in violation of laws and regulations.
- (4) Never performed service or maintenance on components
- (5) DIY repairs on electronic components.
- (6) Abusive use the vehicle in off-road terrain, mud, snow, water, sand, gravel and water puddles.
- (7) If vehicle is used as rental unit or taxi
- (8) Damages caused by natural disasters such as earthquakes, lightning, fire, flooding and other hazards .
- (9) Rust and/or paint fading caused to heavy exposure to rain, hail, snow or sunlight.
- (10) Overloading beyond recommended capacity .
- (11) Damages caused by nails, needles, broken glass , debris , sharp rocks or other foreign objects .
- (12) If vehicle is used but not limited to stunts, jumping from ramps, stairs or elevated surfaces.
- (13) If vehicle is used in competitions or racing
- (14) If vehicle has been modified for any purposes on the motor, electrical system, suspension frame, wheels.
- (15) Use of other components not approved by the manufacturer
- (16) Damages resulted from improper transportation

Due to the nature of the product some components must be exclusive from the manufacturer such as but not limited to the battery, motor, main gauge cluster, Controllers, LED headlights, brake drums or disc rotors and pads etc. Other components such as tires, tubes, saddle, racks, baskets may be used from market-ready or compatible products previous approval from the retailer or manufacturer.



Thank you for your purchase, enjoy your new electric cruiser,
stay safe from the team at Voltage Cruiser Bikes.