ASSEMBLY INSTRUCTIONS & OWNERS MANUAL

First of all, we would like to thank you for choosing the VoltBike electric bike. It all started in our garage with a mission. To bring North America premium electric bike at half the price compared to your local department store.

On a sunny day in the spring of 2013, our team watched – and cheered – as Voltbike's very first bike were pedaled out the door by happy customers. Since that day we've shipped thousands more to Voltbike riders all over North America.

Today VoltBike is stretched over 8000 sqft free standing warehouse facility in Burnaby, BC, Canada and 2000 sqft shipping depot at Blaine, WA, USA. We ship non-stop, everyday all over USA and Canada

If you have any concerns, questions or suggestions about the VoltBike electric bike, please contact us at sales@voltbike.ca. Again, thanks for choosing VoltBike!

IMPORTANT

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 as a result of using the bicycle.

As with all mechanical components, the 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 coloring in highly stressed areas indicate that the life of the component has been reached and it should be replaced.

For replacement parts, technical information and warranty assistance, please contact VoltBike at 1.800.350.4840 or support@voltbike.ca

PLEASE NOTE: THIS MANUAL IS NOT INTENDED AS A DETAILED USER, SERVICE, REPAIR OR MAINTENANCE MANUAL. PLEASE SEEK ASSISTANCE FROM A QUALIFIED TECHNICIAN FOR SERVICE, REPAIRS OR MAINTENANCE.

DO NOT DISASSEMBLE, MODIFY OR REPLACE ELECTRICAL PARTS.

ASSEMBLY INSTRUCTIONS

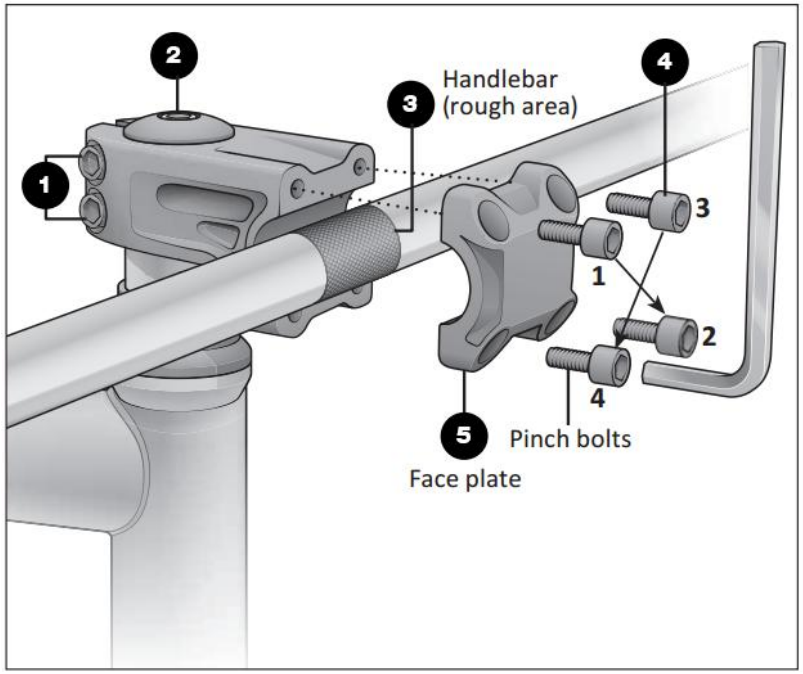
Your bike has been pre-assembled and requires only a few simple steps to get it ready for you to ride:

1. Remove the outside carton after cutting the nylon bands. Remove all of the inside cardboard protection and bubble wrap. Carefully remove your bike from the carton and gently rest it in place with the kickstand down.

2. Ensure the following pieces are included in the package. If there are any missing parts please contact VoltBike for help replacing missing pieces.

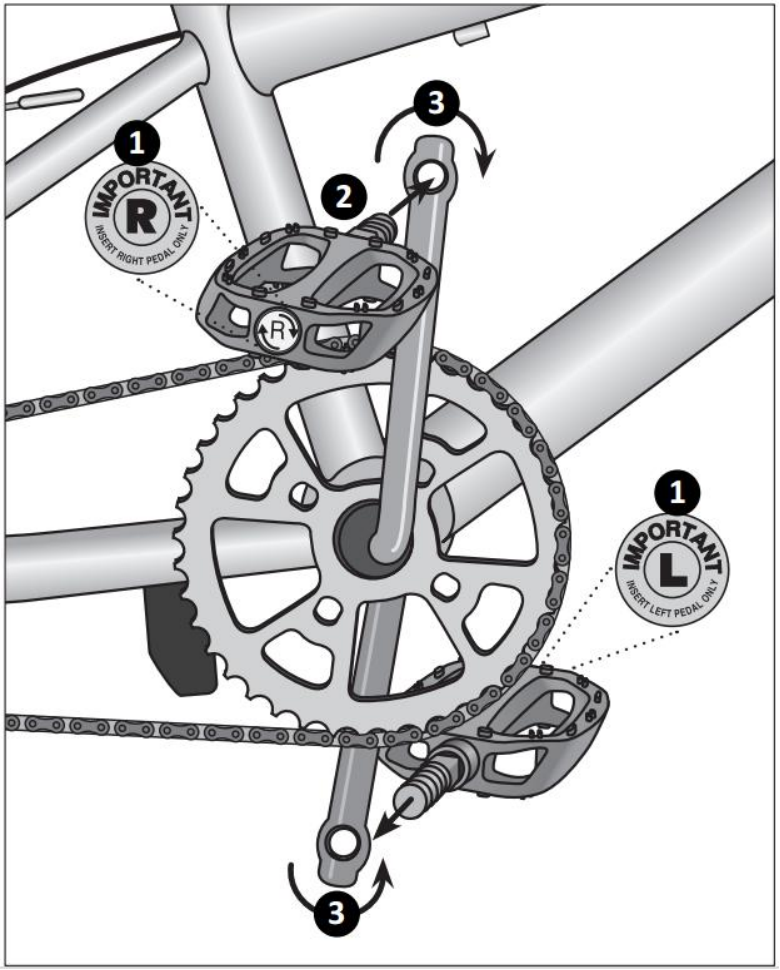
   - VoltBike electric bike
   - Pedals (Left and Right)
   - Charger
   - Key for battery pack (usually attached with plastic tie either on the handlebar or on the battery)
   - Assembly tools and manual
   - Helmet (free with purchase of Voltbike)

3. If necessary, align the stem with the front wheel and tighten the top stem bolt enough to hold the stem in place. Once the handlebars are aligned and the top bolt is slightly secured, firmly tighten the 2 side bolts on the stem. After tightening the 2 side bolts, firmly tighten the top bolt. After all 3 bolts have been securely fastened, make sure there is no play in the headset. (See picture below)



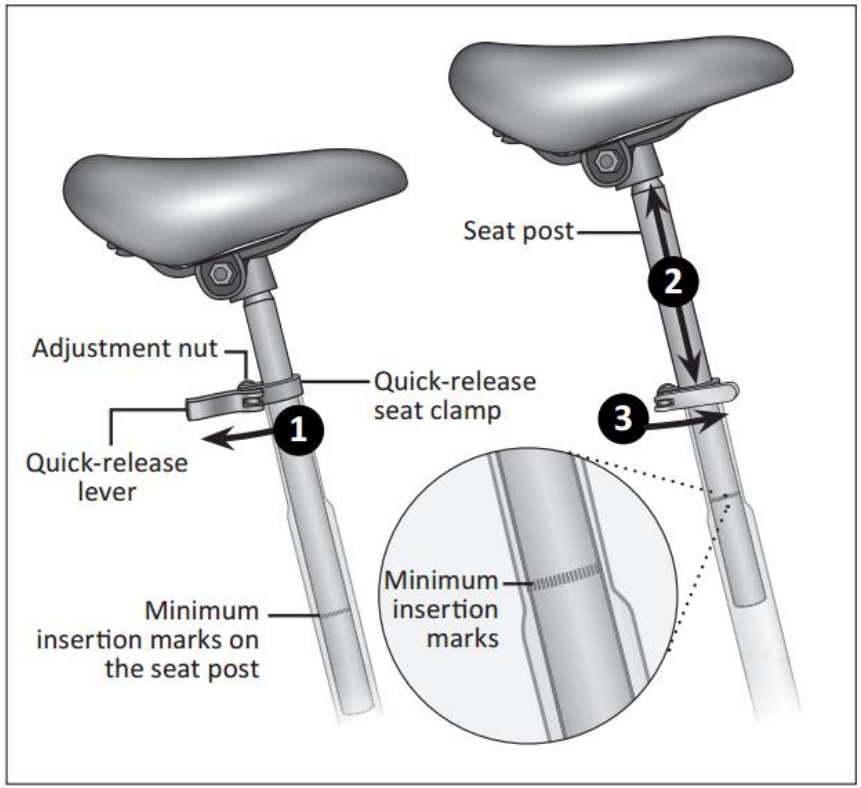
4. Using the 15 mm wrench provided in the tool kit, attach and tighten the pedals. PLEASE NOTE – The

pedals are marked “L” for Left and “R” for Right. The left pedal is attached by turning it counterclockwise and the right pedal is tightened by turning it clockwise. Make sure the pedals are tightly attached to the crank arms to prevent stripping. (see picture below)



5. Make sure the seat is tight enough so that you can’t twist it out of alignment. Pull the seat clamp handle away from the seat post and slide the seat up or down to adjust it. Move the clamp handle inward toward the seat post so it is held tight by the clamp.

   Important! Be sure the minimum insertion marks do not go past the top of the seat clamp and are not visible.



BATTERY CHARGING

Included with your new VoltBike is a lithium ion battery, along with a charger, which plugs into a standard household electric receptacle. A lithium ion battery requires specially designed chargers. You should never charge your battery with a substitute charger that is not designed for this use.

Your VoltBike battery arrives with 70% charge. It is recommended that you fully charge the battery before your first use. The VoltBike battery may be charged while on the bike or removed and charged at a location away from the VoltBike. To charge the battery please follow the steps below:

- Remove the rubber cover on the charging socket
- Place the charger in a flat, secure place, and connect the DC output plug from the charger (round barrel connector) to the charging port on the side of the battery pack.
- The indicator light on the charger will be red / orange when battery is charging and will turn green when fully charged.

The charger will charge a fully depleted battery in 3—4 hours. If the battery will not be used for an extended period of time, charge it fully and recharge it every 2 months. Store it in a cool, dry place. If you experience unusual sounds or odors coming from the charger or the battery, unplug charger immediately and contact VoltBike customer service.

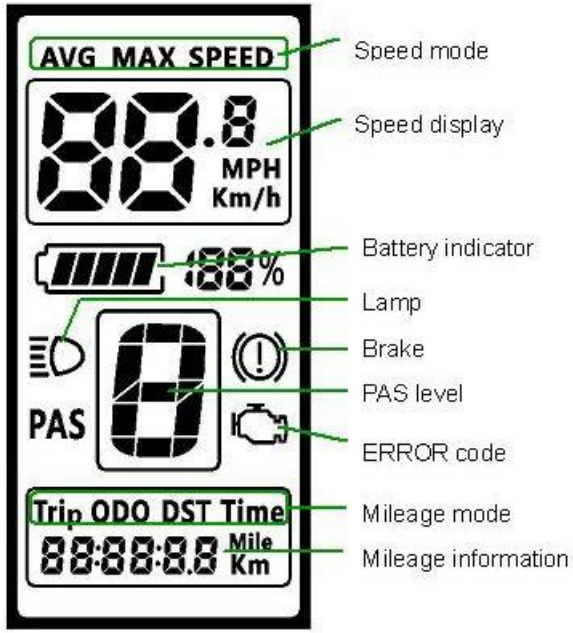
BATTERY CHARGING TIPS

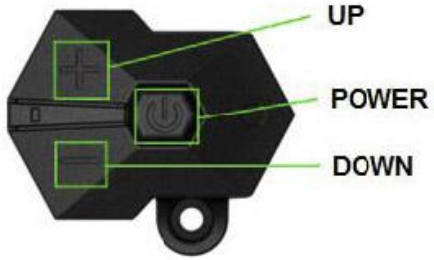
- Recharge battery after every use. This will keep the battery in good shape for longer time.
- Do not allow any liquids near or inside the battery charger.
- Do not charge the battery with any other chargers then what was originally supplied with your VoltBike
- Fully charge the battery before each use to extend the life of the battery and help to reduce the chance of over discharging the battery pack.
- Do not place the battery near fire or corrosive substances.

OPERATION

Your VoltBike is equipped with an LCD meter that 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 VoltBike battery holder (for VoltBike Yukon) or the battery on/off switch is in the on position. (for VoltBike Mariner and Voltbike Urban).

VOLTBIKE YUKON 750, VOLTBIKE MARINER AND VOLTBIKE ELEGANT





Hold the power button (middle button) for 1.5 seconds. The power button is located on the 3 buttons selector located on the left grip on the handlebar. The display will automatically shut down after few minutes if there is no riding activity.

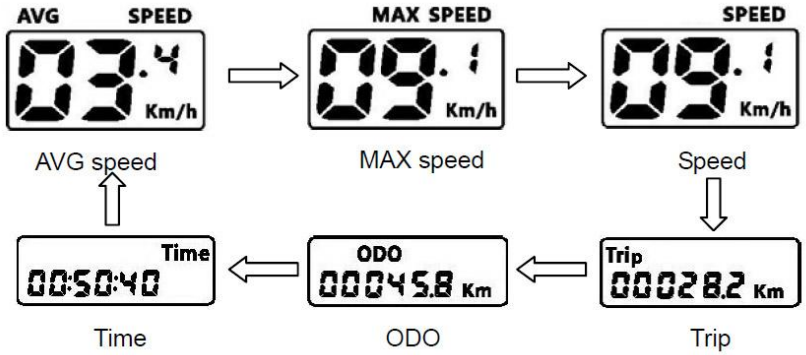
Please never press all 3 buttons on the same time. This will reset the main controller and the battery level indication on the LCD screen will start flashing.

METER PROGRAMMING AND USE

- **Assist Level:** To change the pedal assist level you can short press **Up/Down** button. The highest assist level is 9 and the lowest is 1. You can also program the display so there is 0 level pedal assist which is neutral. See below for instructions.

- **Headlights/Backlights:** To turn on/off the lights on your bike you have to press the **Up** button for 1.5 seconds.

- **Cycle through readings**: Short press Power button will cycle through various readings on the LCD display: Speed ► AVG Speed ► Max Speed ► Trip ► Odometer ► Time



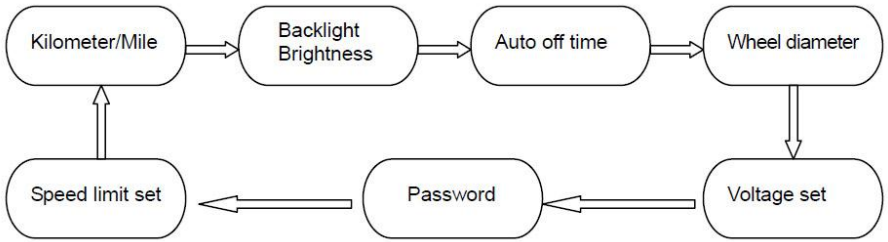
- **Data Clean:** If you press **Up/Down** buttons both together for few seconds, this will reset several temporary data including AVG Speed, MAX Speed, Trip and Time.

- **Walking Mode**: Press and hold **Down** button will get in 6km/h walking mode. This is useful if you plan to walk with your bike uphill.

- **Advanced Settings:** Double pressing power button in interval less than 0.3 sec. will get you into parameter setting mode. From here you can set various parameters like wheel diameter, system voltage and switch km/h to mp/h.

Once you are into advanced mode you can short press **Up/Down** buttons to change parameter value, short press power button to switch to the next parameter. The meter will automatically exit and save if there is no activity for 10 seconds.

The order of parameters is as follow:



Kilometer/Mile – Symbol on display S7. Pres **Up/Down** to rotate between mph and km/h.

Backlight brightness – Symbol on display bL1. Press **Up/Down** to rotate between levels 1- 5

Auto OFF delay time – Symbol on display OFF. Press **Up/Down** to change the value from 1 to 9 which represents delay time in minutes before the display shutdown due to inactivity.

Wheel diameter – Symbol on display Wd. You can choose between 16/18/20/22/24/26/700C/28/29. Wrong value for wheel diameter will cause speed measurement abnormality.

Battery voltage - Symbol on display bU0

Password – In order to proceed to speed limit parameter you need to enter password. Default password is 1919.

Speed limit – Symbol on display SPL. Press **Up/Down** to change the value.

Please don't change settings if you are not confident enough. Setting improper wheel diameter or voltage setting may cause malfunction of your bike.

In case of malfunction the VoltBike LCD control panel will display error code. The error codes are in the range between 01E -07E. The error code number is accompanied with the symbol below:

Error Code	Error Description	Solution
01E	Communication error	Check cable connection
02E	Controller protection	Check three-phase power line
03E	Three-phase power error	Check the three-phase power line connection
04E	Battery low	Charge the battery
05E	Brake error	Check brake power cut inhibitor
06E	Turn error	
07E	Hall error	Check the hall connection
08-99E	Reserved	Please contact manufacturer for error definitions

The LCD control panel manufacturer for your Voltbike Yukon/Mariner is Tianjin APT Development. (www.aptdevelop.com)

VOLTBIKE YUKON 500W AND VOLTBIKE URBAN

Note: Please note that in order to activate Voltbike Urban you have to twist the battery keylock to ON position. The battery keylock is located underneath the frame.

Press the power button (left button) on the four 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 (top button) and can move to a lower level power by hitting the [-] button (button button).

In pedal assist level 1, you will get assistance at around 40% of the maximum power from the motor. In level 5, you will get 100% assistance from the motor. Experiment with the different levels of pedal assist to become familiar with how much power you want. You will need different levels of assist for different riding conditions.

If you set the pedal assist power level to “0”, then the pedal assist function of the bike is disengaged and the bike can be powered by the throttle on the right grip.

METER PROGRAMMING AND USE

The LCD meter on your VoltBike can be programmed to change various functions.

- Press the button “CUR” to activate front and rear LED light.
- When not in motion press the button “CUR” for few seconds to activate cruise control and maintaining speed of 6km/h. Press any of the brake levers to deactivate cruise mode.
- Press the [+] button and [-] button to adjust the pedal assist level.

CHANGING DISPLAY READING FROM KM/H TO MP/H

To enter into advanced mode (recommended only for advanced users) press [+] button and [-] button for few seconds.

To change the display reading from km/h to mp/h you can press both [+] button and [-] button for few seconds. After that using the power button (left button from the 4 available) you can navigate to setting P02.

Using the [+] button and [-] button you can change the setting P02 to 1 for mp/h reading or 0 for km/h reading.

Leaving the display for few seconds without any activity will automatically save and exit.

See below list of the other possible advanced settings:

- P01 (LCD backlight brightness)
- P02 (Set LCD screen for Imperial or Metric standard. Set 0 for km/h and 1 for mph)
- P03 (Level of voltage 24v, 36v, 48v)
- P04 (Sleep time in minutes. Range between 1-60)
- P05 (Pedal assist levels. 3 levels of pedal assist or 5 levels of pedal assist)
- P06 (Wheel diameter in inches)
- P07 (Speed measuring 1-100)
- P08 (Max speed allowed. The max is 50km/h)
- P09
- P10 (Set driving mode. 0 is throttle plus pedal assist, 1 is pedal assist only mode, 2 is throttle override plus pedal assist)
- P11 (Power sensitivity range 1-24)
- P12
- P13

- P14 (Set controller current. Range is between 1Ah-20Ah)

WARNINGS AND SAFETY

You should check the operation of your brake inhibitor switches before every ride. While riding slowly in a controlled environment (like a driveway), engage the motor, then squeeze each brake in turn. The motor should lose power immediately and remain off as long as a brake lever is depressed.

Always use the lowest assist setting until you are comfortable with the bike and feel confident controlling the electric assist.

Keep your hands on the brake levers, and remember that they will always slow or stop the bike if pulled.

Use only the battery provided with your bicycle. Even if it is physically possible to connect another type of battery, it is dangerous and potentially damaging to do so.

Never short circuit on the discharge terminals of the battery. A short circuit will damage the battery and could cause a fire resulting in severe injury or death, and property damage. When handling the battery outside the bicycle, be aware of conductive materials that may short the battery terminals, such as coins, nails, etc.

Electric bikes are faster and heavier than normal bikes. When riding in wet weather, you should use extra caution.

Local laws may prohibit the use of high speed electric bicycles on bike paths or trails. Be sure you are familiar with the laws in your area. Even if legal, it is usually not safe to ride at high speed on paths or trails around other users.

Like any mechanical device, a bicycle and its components are subject to wear and stress. Different materials and mechanisms wear or fatigue from stress at different rates and have different life cycles. If a component's life cycle is exceeded, the component can suddenly and catastrophically fail, causing serious injury or death to the rider.

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

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 as a result of using this bicycle.