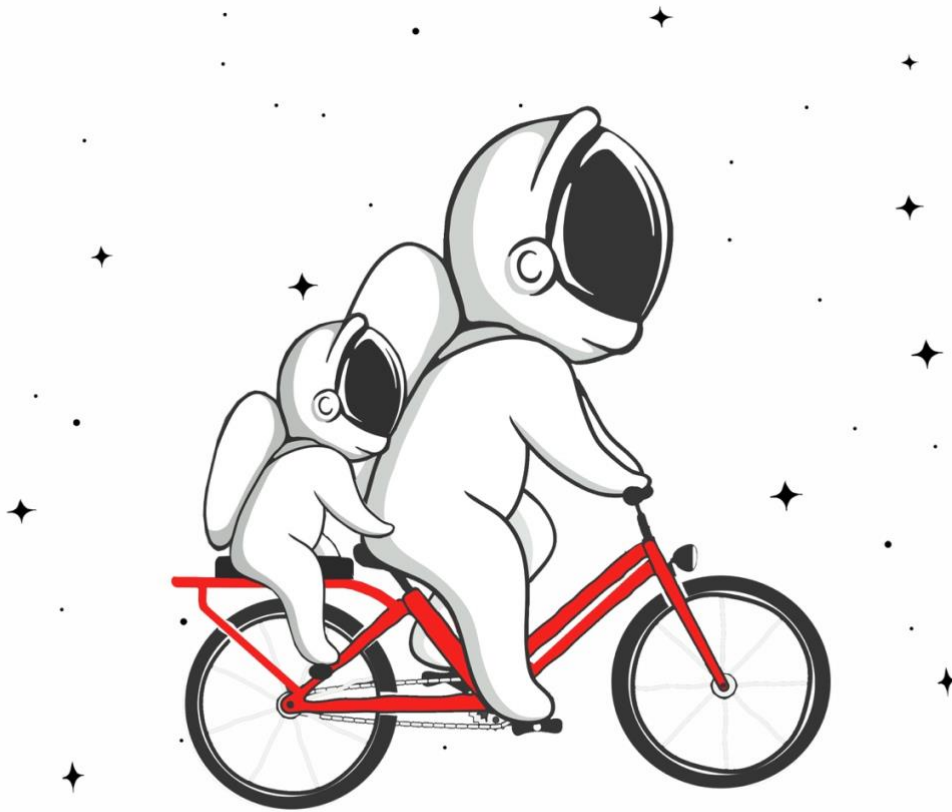




# Velosta V1 ebike **operating instructions**

version 2 29.06.2022



Velostanauts ALWAYS wear helmets!





# Contents of shipping carton



Bike frame with rear hub motor, rear wheel and all controls fitted
Handlebar set, with wires already attached
Headlight
Battery and mains charger
Front wheel with separate axle parts and mudguard
Seat fitted to seat post
Hand throttle (for use on private land or if the law changes to permit on public roads)
Pair of left and right pedals
Front carrier, if ordered
Multitool to help assembly

*This user manual and a long 5mm hex/allen key will be sent with your welcome letter*

**Please contact us straight away if any parts are missing**

# Assembly

Please see the assembly video at [www.velosta.co.uk](http://www.velosta.co.uk) for in depth instructions on assembly:



# Assembly



## Key stages:

- 1 Remove bike body from carton with care and remove packaging and cable ties
- 2 Attach seat using quick release on the tube
- 3 Affix handlebar set securely using centre bolt and washer, then tighten side bolts
- 4 Fit front mudguard and headlight
- 5 Fit front wheel by threading quick release axle and placing in the axle mount slots
- 6 Fit pedals paying attention to left and right fitments - Left pedal fits anti clockwise
- 7 Fit hand throttle if required
- 8 Slide charged battery in place and check display screen operates
- 9 Inflate tyres to pressure stated on sidewalls and **test bike carefully**

# Battery pack and charging

The battery pack is sealed and should not be opened except by trained service professionals.

Please use the mains charger provided to fully charge the battery when it arrives, before it is used with the bike for the first time.

**The voltage required is 240v AC domestic supply. Please do not charge from any other source.**

On charging, unless the battery is 100% charged, a red light will show on the charger. A green light will show when the battery is fully charged. Charging from 'low' will take around 5 hours. Completely flat batteries may take longer. **Running a battery flat should be avoided as repeated flat battery will result in a shorter service life.**

Should the battery pack need refurbishing with new cells in the future, please contact Velosta for instructions.

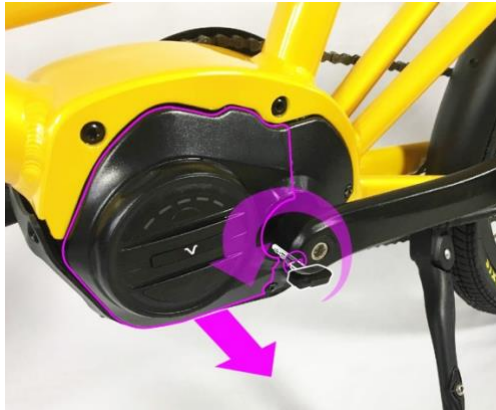


# Battery pack and charging



The battery pack slides in place near the pedals and will lock in place with a click when correctly inserted. To remove, turn the key and pull straight out.

Check the battery charge state by pressing the button below the light bar. The example shows a battery that has 80% charge remaining (each bar representing 20% charge).



At the base of the battery face, under a cover, is the USB port and mains charging port.

# Controls and display type 1



# Controls and display type 1



## Basic use:

- Press M for two seconds to turn the bike on and off.
- Use the plus and minus symbols to increase or decrease the power assistance level (1-5).
- Press the plus symbol continuously to turn lights on or off.
- Press minus symbol continuously to enable walk mode up to 6mph.

***SCAN THE CODE FOR IN DEPTH USER MANUAL FOR KD21C***



## Controls and display type 2



# Controls and display type 2



## Basic use:

- Press on button at top of display for two seconds to turn the bike on and off.
- Use the paddle switch at bottom of the display alter power assistance level (1-5).
- Press the up paddle continuously to turn lights on or off.
- Press down paddle to select 'walk', then press continuously to activate (up to 6mph).

## Advanced use:

- Press settings button to show editing menu. Scroll up and down using paddle button. Select each section using the settings button, then scroll up and down options. Menu includes power assist range which can be changed from three to maximum nine stages.
- **Once changes are made scroll down and Exit.**

# Ebike operation

**Starting off** – Ensure the ebike is turned on and the display screen is lit. Make sure you have the desired power assist setting showing.

**Gearing** – It is important that you start off in a low gear (1-3). This will give you the easiest start and the torque sensor or cadence sensor depending on model will quickly recognise your power input. High gearing from standstill can result in a delay of power assistance. As you move faster, move up the gears by pressing the upshift button and when you come to a hill you may find you need to go into lower gears by using the thumb operated downshift.

**Assistance** – As you pedal, with a short delay, the rear hub motor will begin adding power and you will feel the effort needed to pedal reduce. Depending on gradient, weight and assist level, it may feel like you have to make no effort at all – but you must keep turning the pedals or the assistance will cut out. On hills you may find that extra pedal power is needed in addition to assistance – and that a lower gear is appropriate to reduce effort and motor strain.

**Maximum assist speed** – The ebike is limited to 15.5mph assistance. You can ride faster but this will be unassisted ie the ebike powers you to 15.5mph but as you are on a downhill stretch you may easily be able to reach 20mph+ but the motor cuts off at 15.5mph.

**Braking** – Operating the brakes cuts all power assistance.

# Ebike operation: Gearshift



# Hand throttle

Please only attach the hand throttle if the ebike is being used on public land, or the law has changed to allow hand throttles up to 15.5mph.

Refer to the assembly video for fitting instructions.

**Push the lever down to accelerate.**

Acceleration will be instant up to 15mph.





# Adjustments



Once the ebike has been assembled, you may find it necessary to adjust certain items, such as the placing and rotation of the gear lever if you want to change the factory set-up. All items should be easily adjusted with the multitool provided.

After using the ebike for two weeks, please check the tightness of all the parts that have been assembled – as vibration can sometimes work items loose.

**Handlebars and seat post** – these are easily adjusted using the quick release mechanisms. If the locking mechanism is too loose, tighten the thumbscrew and reclose.

**Front wheel seating** – if the brake discs of the front wheel are making contact through the rotation, it may be necessary to release the wheel using the quick release and moving the axle in its seat until a smooth rotation is achieved. Then close the release mechanism.

**Brakes** – brakes shouldn't need adjusting. If the brakes are not operating correctly please speak to a repair professional or call us for help.

**Gear linkage** – The gears should change freely. Unless you are confident in adjusting the derailleur, significant problems should be investigated by a professional - or contact us for help.

# Service items & basic repairs

**Check-over assembled parts after first two weeks** and service at least annually:

- Tyres - Pressure should be set to pressure stated on sidewall. Examine for sufficient remaining tread. Cracking of rubber means a replacement tyre is needed.
- Brakes - Check operation and replace pads/discs as necessary. Replace fluid every 36 months.
- Gear cable - May need tightening after first two weeks of operation due to normal stretching in operation. May need replacement due to heavy use.
- Derailleur - May need minor adjustment using the adjust screws to maintain smooth gear changing over time.
- Chain - Check for any damage and lubricate.
- Battery - This is serviceable at a battery repair centre as necessary.

*Display/Internal controller are not serviceable but can be replaced if necessary.*

## Fitting the front carrier



The optional front carrier is attached to the steering tube using four hex nuts.

Use the multitool provided. Re-check for tightness after first use.

It is recommended that a **maximum of 10kg** is carried on the carrier as heavier loads may change steering ability and accuracy.

## Fitting child seats

Please refer to the fitting instructions that the manufacturer provides.

The fixed rear carrier is suitable for a wide range of seat fixtures that will clamp across the bars or fix on using a top and bottom plate.

We recommend the Urban Iki range and can advise on fitment of the child or baby seats on your Velosta V1.

# Specifications

<b>Frame:</b> Aluminium Alloy <i>sized for 5'1" - 5' 10" rider height</i>
<b>Wheel size:</b> 20" (alloy) Tyres: 2.3" Maxxis Grifter or Kenda K Rad
<b>Battery:</b> 9.6Ah Panasonic 36v 25-45 miles (from throttle only to low assist)
<b>Rear hub motor:</b> Bafang 250w
<b>Display:</b> LCD with 3, 5, 9 assist modes
<b>Gearing:</b> Shimano 7 Speed
<b>Brakes:</b> Tektro hydraulic disc brakes front and rear
<b>Handlebar stem:</b> Promax Adjustable
<b>Security:</b> Two keys that turn the bike off and remove the battery as required
<b>Maximum weight loading:</b> 86kg
<b>Bike weight without load</b> (but with front carrier attached): 21.5KG

# Servicing, parts & warranty



Servicing may be carried out at any capable bicycle service centre. In most respects the V1 is the same as a normal non assisted machine. If any additional technical information or services are needed please contact Velosta for help.

Contact via **[www.velosta.co.uk](http://www.velosta.co.uk)** or call on **02034893796**

General parts such as brake pads, tyres, gear linkage wires etc may be replaced with good quality generic items. This will not invalidate the warranty.

For unique items such as electronic control units, please contact Velosta for replacements and/or technical information.

The warranty guarantees the V1 frame for two years and the battery for six months, in accordance with the terms and conditions of business. Supplying replacement parts or covering repair costs outside of this is discretionary.

Velosta reserves the right to update or change any specifications outlined in this booklet without notice.





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