

Hikobike

2023 Models

User Guide

**PLEASE READ THIS
GUIDE BEFORE RIDING
YOUR EBIKE**



Ascent



Rangler



Vibe

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ASSEMBLY

The assembly of your HIKOBIKE must be performed and safety checked by a HIKOBIKE dealer or bicycle mechanic. Assembly of the stem, handle bars, and tuning of the gears and brakes requires expert bicycle mechanic knowledge.

GENERAL PRECAUTIONS BEFORE RIDING

Always wear a safety bicycle helmet when riding a HIKO electric bike

Observe the local rules for bicycles and e-bikes

Check Tyre Pressure (35-50psi), brakes, fasteners, and locking systems before commencing on a ride

HIKOBikes are designed for comfort for use on smooth gravel, dirt or paved surfaces. They are ideal for maintained walking and biking tracks, but not for downhill or single-track mountain bike type use.

HIKOBikes are not designed for jumps or extreme riding conditions.

SPECIFICATIONS

	<i>RANGLER/ASCENT</i>	<i>VIBE</i>
Weight without battery	25kgs	24kgs
Maximum assist speed	45km/hr	45km/hr
Maximum load carrying	130Kg	130Kg
Motor	300W ANANDA M100	300W ANANDA M100
Display	D16 Colour	D16 Colour
Front Fork	Suntour XCM	Suntour XCT
Brakes	Hydraulic 180mm Disc	Hydraulic 180mm Disc
Derailleur	Shimano Deore 10 speed	Shimano Deore 10 speed
Tires	27.5 x 2.35	26 x 2.35
Battery	Weight	Weight
LG 672W	3.6Kg	3.6Kg
Samsung 840Wh	4.0Kg	

BATTERY

The HIKOBIKE come standard with a 48V Samsung or LG Li-Ion Battery with a built in Battery Management system (BMS). The BMS is important component as it allows the charger to charge the battery cells evenly, which will maximise the life expectancy and storage power of the battery.

HIKOBIKE RANGLER and ASCENT can be optioned with larger capacity 840Wh batteries according to availability. Your standard charger for the standard battery can charge the larger batteries.

Contact your dealer to if you wish to purchase a larger battery.

BATTERY CHARGING

IMPORTANT: Use a Surge Protector with your battery charger to protect against spikes in household voltage.

Charging time: approximately 3 -6 hours for 100% Charge

You can charge the battery either on or off the bike. When the battery is removed from the frame, you can use the battery level indicator to check the battery level. To do this, press the button on top of the battery - there are 4 LED light bars to display the state of charge. The more LEDs that light up, the more battery charge you have available. When charging the battery on the bike you can see the state of charge on the display.

Only charge the battery in temperatures between 10 - 30 deg C, in a dry and safe place. Do not cover the battery during charging. If the battery is extremely cold, warm the battery in a warm ambient room for a few hours before charging it.

To charge your battery follow these steps:

1. Plug the charger's 3 pin plug into the Wall Socket / Surge Protector (which is OFF)
2. Plug the charger into the battery.
3. Then Turn ON the Wall Socket/ Surge Protector to turn ON the charger.
4. The Charger will show LED light: RED – Battery is being Charged. When the LED light changes to Green the battery is fully charged.
5. Once charged, turn OFF or unplug the Charger from the Wall Socket. The battery can remain plugged into the Charger if the Charger is turned OFF or unplugged from the Wall Socket.

The duration of a 672Wh battery while riding can range from 50 to 120 km depending on assist level selected, rider input, and road conditions.

Charge your battery even after a fairly short ride. Small charge top ups do not affect battery life.

BATTERY STORAGE

Store your battery at dry temperatures between 15-25 deg C. Your battery likes the same temperature you do.

When storing the battery for periods longer than 2 months, fully charge the battery and remove the charger from the wall socket. The Battery has a 4 bar charge indicator on the battery pack. Push the button to see how many bars light up. Try to keep the battery with at least 2 bars showing.

The Li-Ion Battery will slowly lose its charge over long storage intervals.

It is important to check and charge the battery at least every 3 months, and keep the battery charged between 20% and 100% level.

Allowing the battery to fully discharge during long storage can harm your battery.

Never leave your battery fully discharged as it may cause permanent damage to the battery.

INSTALLING AND REMOVING THE BATTERY

The key is to secure the battery from theft and does not need to be in place to use the bike. HIKOBIKEs are supplied with 2 keys when new. Please keep one in a safe place where you can find it again.

TO REMOVE THE BATTERY FROM THE FRAME

The battery can be easily removed from the bike. It is quite heavy and can easily be dropped so take great care

- ① Place one hand under the upper part of the battery and turn the key anticlockwise
- ② Keep your hand underneath the battery and hold it. With your other hand turn the turnbuckle that is on the underside to release the battery
- ③ Lower the top of the battery, still holding it firmly and then remove it gently without letting it slip out of your hands

If you are turning the key to unlock the battery, ensure you are holding onto the battery at the same time.

TO INSTALL THE BATTERY

- ① insert the lower end of the battery into the bottom of the battery frame, with the top end of the battery lower than the frame
- ② Lift the upper end of the battery and click it firmly into the frame
- ③ Check that the battery is secure before removing your other supporting hand
- ④ The battery is then secure and you can remove the key if you wish.

BATTERY WARNINGS

The Li-Ion battery is one of the major components on the HIKOBIKE e-bike and great effort should be taken to look after it.

- Always handle with great care. Do not drop or allow it to be struck.
- Do not take the battery casing apart or tamper with the battery.
- Keep it away from children.
- Keep it away from temperatures above 50 °C.
- Never allow a connection between the electrical contacts.
- Never spray it with a hose, immerse it or allow excess water on it.

If you suspect the battery is damaged or not working correctly, contact your dealer who can have the battery checked and diagnosed using the built-in Battery Management System.

QUICK START - RIDING THE BIKE

PRE-RIDE CHECKLIST

Please make sure the brake levers are fitted to the correct side of the handlebar for the country before riding. In UK, NZ and Australia the left brake lever is for rear brake and the right brake lever is for the front brake. In many other countries it is the other way: left for front, right for rear.

- Check the tyres for any visible damage.
- Check tyre pressures are 40-50psi, 40Psi is usually best and adjust if necessary.
- Check for any loose nuts, bolts, or fixings.
- Check brake functions, cable tension, pad clearance, etc.
- Check all electronic functions are ok (functions detailed later in this manual).
- Check the reflectors are in place and the lights are working

Before riding off on the bike:

Press the ON button on the control panel

Check the battery capacity

Select the level of assist from 0- 5 (ECO – BOOST)

Start pedalling to start the motor

Select the appropriate gear

For optimum battery life, try to avoid riding the e-bike until the battery is completely flat. Turn off the Power Assist as soon as you notice the battery has lost power, pedal the bike home and charge the battery as soon as possible.

TORQUE SENSOR

You will notice the harder you push down on the pedals the more power assist comes from the MID Motor.

OPERATION

Press and hold the ON button for 3 seconds to power on the display. Pressing and holding the ON button again for 2 seconds will turn OFF the display. If the bike is not used after 5 minutes the display will turn OFF automatically.



- ① This area shows the current battery remaining power, including the power progress bar mode and grid mode , and the figure shows the progress bar mode.
- ② This area shows USB status indication
- ③ This area shows fault status indication
- ④ This area shows headlight status indication; Including automatic headlight mode and manual headlight mode
- ⑤ This area shows real-time speed
- ⑥ This area shows speed unit
- ⑦ This area shows trip mileage
- ⑧ This area shows PAS level

[For Further detailed information, please see the HIKOBIKE D16 Display Manual](#)

ASSIST MODE SELECTION

Press the up or down arrows to select the desired level of assistance from the motor. Level 1 ECO is the lowest and Level 5 BOOST is the highest. At Level 0 there will be no assist from the motor while pedalling.

STOPPING THE MOTOR

All the following will stop the motor:

Stopping pedalling

Pulling on either brake lever

Pressing the thumb throttle whilst pedalling

Pressing the down arrow to PAS 0

HEADLIGHT / REARLIGHT AND DISPLAY BACKLIGHT SWITCH

Press the light button to turn on the backlight of the display and the head and taillight. Press the Light button again to turn them off. The Lights are set to AUTO on in low light.

WALK ASSISTANCE 6KM/HR

Press and hold the walk Button. The ebike will move at 6Km/hr and be in WALK mode. Once the button is released the ebike will stop.

BATTERY CAPACITY INDICATOR

When the battery status is normal, a certain number of the battery LCD segments at the top left of the screen will light up, according to the level of charge.

MAINTENANCE AND STORAGE

DEALER AND BICYCLE MECHANIC ROUTINE MAINTENANCE

Your bicycle should be taken to a servicing dealer or bicycle mechanic after 250km of riding to check the tension of the spokes. Then every 1000km for a general service and inspection. Failure to do this can void your warranty due to unnecessary wear and tear.

USER MAINTENANCE

1. Oil the chain frequently using special bicycle lubricant (dry or wet). Apply the lube oil on the chain by turning the pedals and dripping the lube oil on the chain as it moves past, and spin for a few turns and change into all gears. It is easiest to do this on the bike stand or bike carrier, with the wheels suspended off the ground. After applying the lube oil it is important to clean off excess lube oil with a cloth. This removes old dirt that the new lube has dislodged.
2. Keep tyre pressures within the tire recommendations; see tyres for max PSI inflation. Normally 35-60psi gives a hard tyre pressure for efficient peddling and battery consumption.
3. Check brake disc pads for even wear patterns. If the brakes become noisy when applied, take to a service bike shop to check to see if they need replacement.
4. Store your e-bike in a dry place and away from corrosive environments.

TORQUE SETTINGS

All bolt torques should have been checked during the pre delivery inspection (PDI). If you have done the final assembly yourself please check before you set off for the first time.

- a.** Handlebar clamp bolts 8 Nm
- b.** Headset bolts 8 – 10 Nm
- c.** Stem angle bolt 15 Nm
- d.** Quick release front & rear axle Common industry practice is resistance at lever halfway through swing from open to fully closed.
- e.** Seat tube clamp nut Common industry practice is resistance at lever halfway through swing from open to fully closed
- f.** Seat angle clamp bolt 22Nm

For reference specific bolts are tightened according to the recommended torques on PDI

With any other bolts, the torque depends on the diameter:

M4 2.5-4.0 Nm

M5 4.0-6.0 Nm

M6 6.0-7.5 Nm

DO'S AND DON'TS

Do treat your e-Bike like any bicycle you would want to last well... keep it stored somewhere secure and away from the elements.

Don't treat your e-Bike as a dirt-bike! The motor and battery are weatherproof, but not water-tight. It is ok in rain, but not to ford streams, etc!

Never take your e-Bike on the beach as salt water and sand will drastically shorten the lifespan of many of the e-bike's components (motor, gears, wiring connections, etc).

Note: Your warranty is void if evidence of salt, sand, or water damage are present within the components. Important: If you live very close to the sea you must keep your bike indoors when not in use. This will save you heaps as your components will last longer.

Important: Your bike may arrive with the battery partially charged. You need to give it a full charge before ANY use. Top your battery up after each use (lithium batteries prefer shallow discharge).

Note: The LCD battery display bars will dip under full load (on hills, etc). This is normal as running voltage drops under high load. To get an accurate battery reading, wait about 10 sec after the motor is not in use.

Do take extra care on the road as you will be travelling faster than you normally do on a bike and your bike is now power-assisted, so will behave differently.



WARRANTY

Before delivery to the customer, HIKOBIKE e-bikes are checked to the BS EN 14764 standard for defective materials and construction defects by a qualified bicycle mechanic.

The warranty is only applicable to the first owner of the e-bike. The rights are not transferable.

WARRANTY PERIODS

The warranty period is effective from the date of delivery to the customer.

Part	Warranty Period	
Components	1 year	Third party component warranty conditions for the relevant manufacturer also apply. The warranty does not apply to parts that are susceptible to wear and tear, such as tyres, chains, brakes, cables, cassettes, derailleur except if they are assembly or material defects.
Motor, battery and other electronic equipment	2 years	
Frame	5 years	

INVALIDATING THE WARRANTY

This warranty will be invalidated in any of the following circumstances:

- The e-bike has been subject to damage due to use in competitions, jumping, downhill, or trials.
- The e-bike has been ridden in places unsuited to electric bicycles, including rivers, streams, sea or any water deeper than a few inches, on sand or beaches, or any other place clearly unsuited to an e-bike.
- The e-bike has been involved in an accident.
- The e-bike has been operated in a careless or reckless fashion.
- The e-bike has been modified with non-original parts or altered from its original settings.
- The e-bike has been used for rental or any other commercial purposes.

HIKOBike has the ultimate decision whether to accept a warranty claim and the option of repair, replacement or reimbursement.

Warranty work should only be carried out by authorised Hikobike agents and does not cover the any transport costs.

HIKOBike accept no liability for damage to the e-bike or parts that have arisen from: incorrect tuning of moving parts; the improper use of the e-bike; and the improper maintenance of the e-bike. This includes damage as a result of untimely replacement of parts which suffer wear and tear.

Acceptance of any warranty claim does not imply an acceptance of any liability for any damages. This warranty is in addition to the customer's standard legal rights in New Zealand.

CONTACT

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