

Operating instructions for electric bikes

V LTERRA





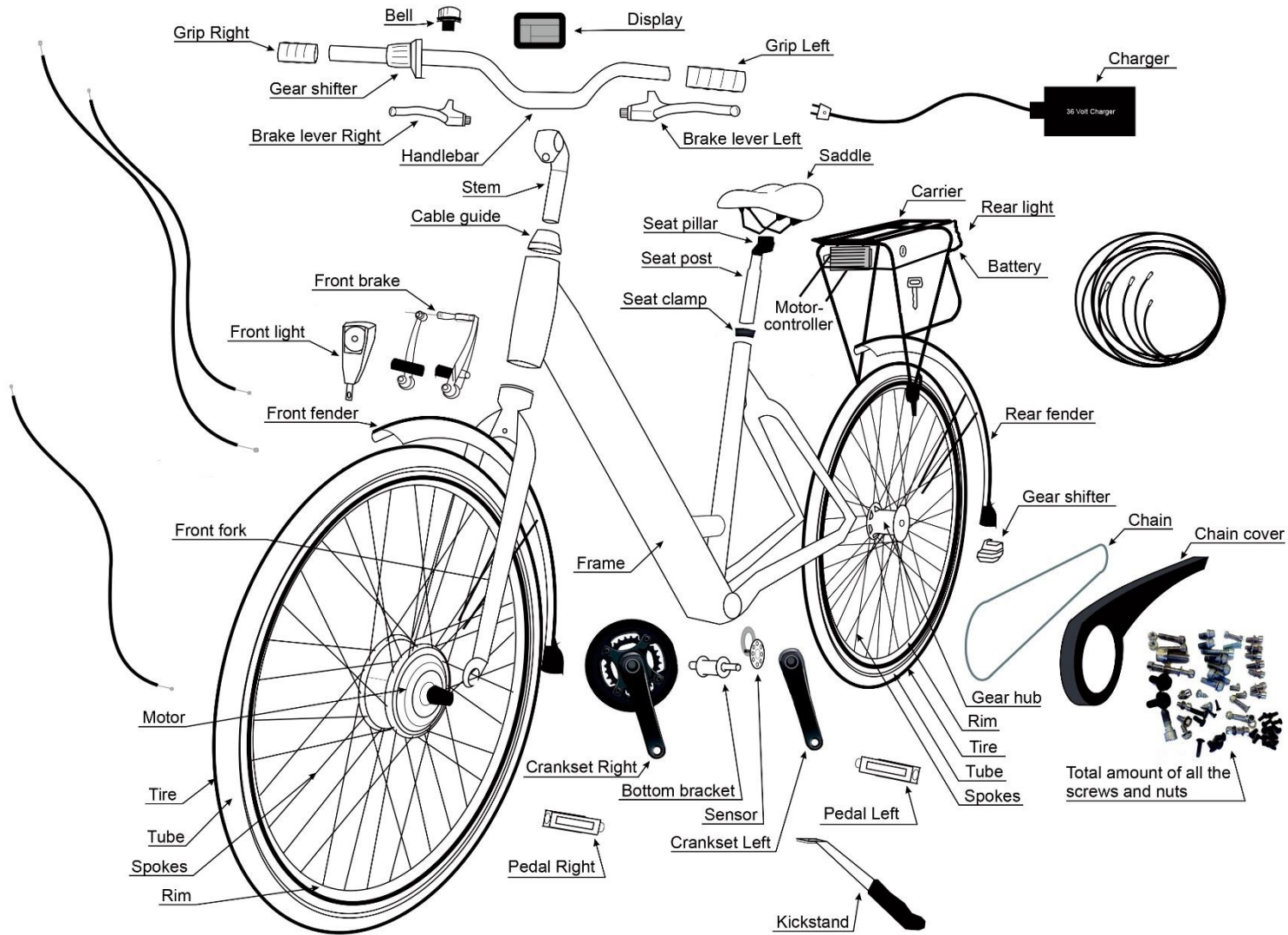
Contents

| | |
|---|----|
| Operating instructions for electric bikes | 1 |
| 1. Important information before you start biking..... | 3 |
| 2. Introduction..... | 4 |
| 3. Before the first ride..... | 5 |
| 4. Before each ride..... | 7 |
| 5. Your first ride..... | 8 |
| 6. Using your E-bike | 9 |
| 7. Display | 10 |
| 8. Display settings..... | 11 |
| 9. REMOVING AND REATTACHING THE BATTERY | 12 |
| 10. Battery charging instruction | 14 |
| 11. Safety instructions for the battery and charger | 15 |
| 12. Technical specifications | 16 |
| 13. Maintenance | 17 |
| 14. Other information..... | 18 |
| 15. Declaration of conformity..... | 19 |

1. Important information before you start biking

2. Before your first ride, please read the operating instructions carefully and check that all parts are in good condition.
3. Please slow down in slippery conditions, e.g. in rain or snow, and consider that you will need greater braking distances to guarantee stopping safely.
4. This e-bike works reliably under all weather conditions although excessive water exposure could damage the electronics and/or the electric motor.
5. Never touch the electronics on the e-bike with wet hands and never touch the plus and minus poles at the same time, as the strong short-circuit current could cause injury.
6. Never attempt to repair electronics on the e-bike yourself, always ask a specialist retailer.
7. The battery performance can vary depending on the temperature. Temperatures below 0°C will decrease the distance you can ride the e-bike without recharging. The battery performs the best in temperatures above 0°C.

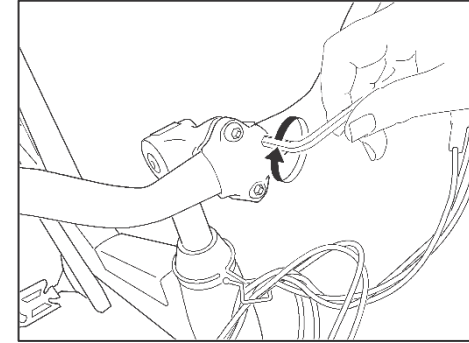
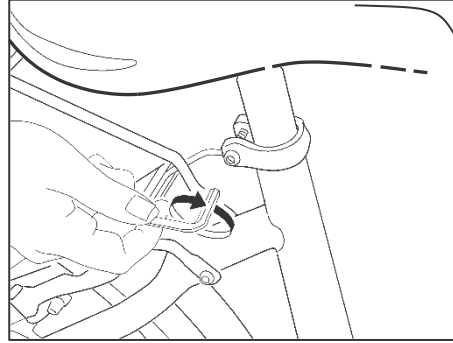
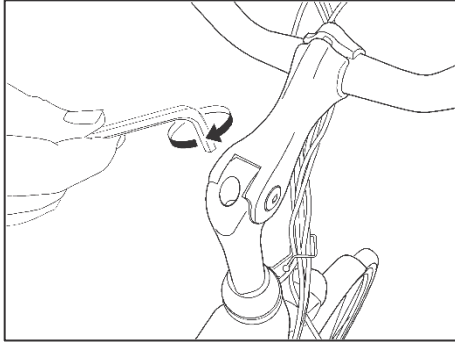
2. Introduction



3. Before the first ride

Please insure that your bicycle is ready for use and properly adjusted to fit your body

Tighten the screws:



| PRODUCT DESCRIPTION | TORQUE SPEC | PRODUCT DESCRIPTION | TORQUE SPEC |
|--------------------------|-------------|---------------------|-------------|
| Stem @ steerer tube | 10-12 Nm | Brake levers | 3 Nm |
| Stem @ handlebar | 8 Nm | Brake bolts | 9 Nm |
| Seat clamp | 7 Nm | Rear wheel axle | 15 Nm |
| Seat post @ saddle rails | 10 Nm | Front wheel axle | 8 Nm |
| Bottom bracket | 40-50 Nm | Kick stand bolt | 10 Nm |
| Crank bolts | 38-41 Nm | Ferder bolts | 4 Nm |

Seat

Adjust the seat post to a height where your knees are slightly bend when riding.

Do **NOT** raise the seat post above the minimum insertion mark. It should always be hidden inside the seat tube.

Handlebar

Adjust the handlebar to a comfortable position.

Do **NOT** raise the stem above the minimum insertion mark. It should always be hidden inside the head tube.

Brakes

Brake lever on left side of the handlebar activates roller brake on rear wheel and brake lever on right side of the handlebar activates V-brakes on front wheel.

Make sure that all bolts on brakes are tightened according to specifications and brake pads (front brake) are adjusted according to rims on wheels. (2-5 mm of space between brake pads and braking surface on rim)

Chain

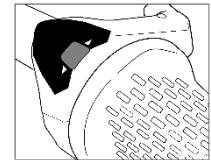
Chain should be tight and well oiled. If there is more than a few mm of slack the rear wheel needs to be moved back in order to reduce slack.

Gears

The gear shifter is already set, but if needed it can be adjusted this way:

Nexus 3 speed

1. Set the twist shifter on the handlebar in second gear.
2. Loosen the lock nut with a 10 mm wrench.
3. Tighten or loosen the cable tension by turning the adjustment screw until the yellow dot in the shifter window is aligned between the two lines on the shifter house.
4. Tighten the locknut up against the shifter house so the adjustment screw is locked.

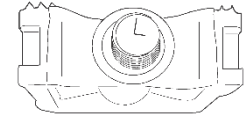


Nexus 7 speed

1. Set the twist shifter on the handlebar in fourth gear.
2. Tighten or loosen the cable tension by turning the adjustment screw on the twist shift until the 2 yellow dots on the right side of the rear hub are lined up beside each other.

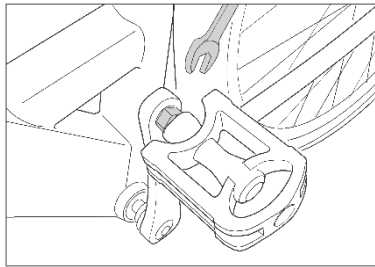
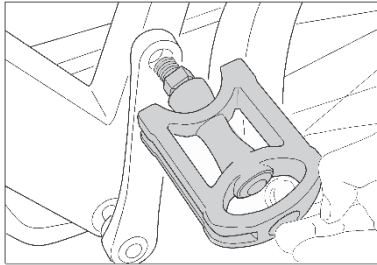
Pedals

Before fitting the pedals to the crank, grease the threads with a little lubricating grease. The pedals are marked with an "L" (left) and "R" (right) on the threads that screw into the crank. Make sure you fit the right pedal to the right crank.



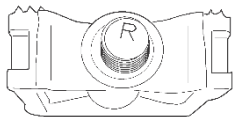
IMPORTANT!

Be careful when attaching the pedals to the cranks. Attempting to attach a pedal on the wrong crank, or not aligning them properly, can damage both the pedal and the crank. Pedals fitted incorrectly or not tightly enough could come loose, which could cause injury or damage the e-bike.



PLEASE NOTE!

Screw the left-hand pedal anti-clockwise as it has a left-hand thread.



5. Your first ride

- Be very careful the first time you ride your e-bike! In power mode, the e-bike is considerably faster than a normal bike!
- Take your first ride on open land so you can get used to the improved acceleration.
- The control unit has a low-voltage protection system which automatically switches off the power assist if the battery voltage falls below a certain level.
- Be careful when braking. Always brake with the rear wheel brake first, it is less aggressive than the front wheel brake.
The power assist is deactivated at 25 km/h. It is automatically switched back on again once the speed drops below 25 km/h.
- Do not use power assist on slippery surfaces and gravel.
- Switch power assist off if the e-bike is not behaving normally to avoid damaging electrical components.
- In order to not damage the electrical components, never load the e-bike luggage carrier with more than 25 kg.

6. Using your E-bike

- Start pedaling; the electric motor will only assist you while you are pedaling.
- If you wish to change the assist level, press the plus or minus buttons.
- The power assists stops when you reach 25km/h.
- If you leave the e-bike unattended, lock it and removing the battery key.



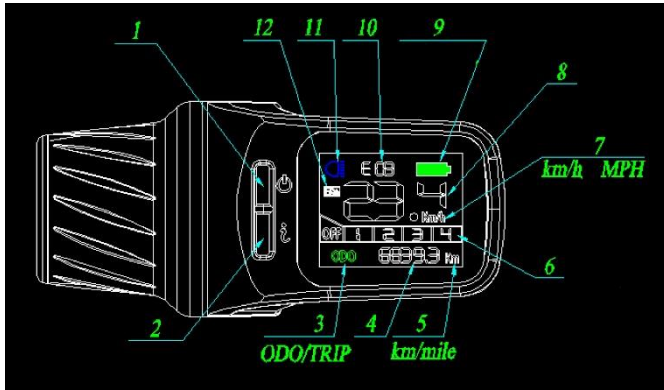
To start the battery, Press the ON button on top of the battery.








Make sure the battery is firmly locked in position together with the battery base where the bicycles controller is situated.

To turn on the display, press the **POWER** button.



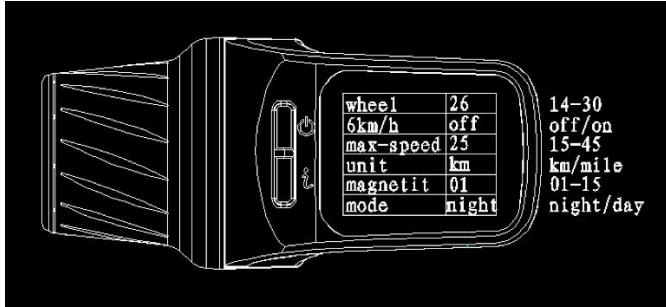
7. Display





1.  Power button/front light button. Press  to turn on the display. Interface starts with “welcome” and then gets into operation interface. Long press  to turn off. Screen shut off after showing “thank you”.
2. Press  to switch between single mileage and total mileage.
3. ODO is total mileage. TRIP is single mileage. Default is ODO.
4. Mileage figure
5. Mileage unit Km/h or Mile/h.(MPH)
6. Power assist Levels. Switch throttle for levels change from 1 to 4.
7. Speed indicator. Default unit is Km/h. Press  and  simultaneously for set-up to switch between Km and Mile.
8. Speed indicator figure.
9. Power indicator. Green color for normal and red color for power shortage.
10. Error indicator. Error code for specific malfunction. Red color
11. Front light indicator. Default is close. Press  to turn on/off front light.
12. Walk assistance (6km). Default is close. Turn throttle in-wards for 2 seconds to turn on Walk assistance function. Loosen the throttle to close. After start-up, please hold both **UP** and **DOWN** at the same time, for 3 seconds, LCD will enter into the setting state.


8. Display settings


At operating interface, press  and  simultaneously for set-up.



Enter set-up interface.

Press  to back and return to operation interface. Press  to set up.

For example : After entering the set-up interface, default is to set up wheel sizes. Switch throttle to increase or reduce size figure. Press  to set up Walk assistance function (**6km/h**). Switch throttle for **on/off** choices.

Press  to return operation interface.

| | |
|-------|-----------|
| 6km/h | off/on |
| Unit | km/mile |
| Mode | night/day |

These three set up using throttle to switch choices. **Night/day** choice for different back lights.

9. REMOVING AND REATTACHING THE BATTERY

Removing battery

1. Switch off the display.
2. Turn the key left to unlock the battery.
3. Slide the battery out of the carrier remove it.

Reattaching battery

1. To fit the battery, first insert the battery in the battery holder from underneath then push it in place from above.
2. Turn the key right to lock the battery again.

Parking

- Gently press the power button on the battery until the top diode turns off. After a few seconds the other diodes will turn off and the battery will be completely switched off.
- Avoid leaving the e-bike unprotected in rain or snow.
- If the e-bike gets wet, dry it off with a dry towel at the end of your ride.
- Don't forget to turn off the front and rear lights separately.

Please note the following reservations:

- The bike's tyres should be inflated to the proper tyre pressure.
- If the weather temperature drops - the range will be reduced.
- If the rider's weight increases - the range will be reduced.
- If the roads are wet or icy - the range will be reduced.

Maximizing your range

Many factors influence the performance of the battery which has impact on your range.

- Charge the battery completely before a long ride.
- More energy is required on uneven roads and hilly conditions.
- Frequent speed changes use up more energy.
- Heavier loads use up more energy.
- Make sure your tyre pressure is OK and always keep the
e-bike clean and well lubricated, as this helps save energy.
- Make sure both wheels can move freely, it helps save energy if brake linings are not sticking. Check brake linings regularly.
- Vigorous pedaling helps save the battery and increases your range.

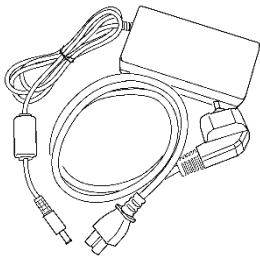
10. Battery charging instruction

- Always switch the battery off before charging it.
- The battery gets hot while charging. For safety reasons, never cover the battery.
- Place the charger on an even surface.
- You can either charge the battery on the e-bike or removed it from the e-bike.

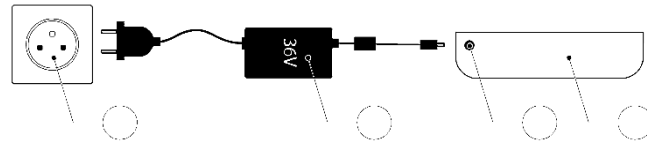
1. Connect the charger to the battery and then plug in the charger. A completely empty battery will take approximately 6 hours to fully charge.
2. When the battery is fully charged, the LED on the charger switches from red to green. For safety reasons, unplug the battery as soon it is fully charged.
3. Unplug the charger and then disconnect it from the battery.

Battery

Charger



1. Battery
2. Battery charging connector
3. Charger
4. 230V



11. Safety instructions for the battery and charger

Your e-bike has a lithium-ion battery. Never charge the battery with a replacement charger which is not designed for this purpose. Using an unsuitable charger on a lithium-ion battery could lead to overheating, fire or explosion. If your charger gets lost or damaged, contact your local store to order a replacement.

- The battery is half charged when new. The first three times, charge the battery for at least 12 hours.
- Please make sure that the charger voltage matches your mains voltage.
- The charger must always be used indoors.
- Don't open the charger, it is a high-voltage unit.
- Never touch the two battery electrodes at the same time as this could cause an electric shock.
- Never take the battery out of the e-bike while it is charging.
- Please charge the battery for at least 2 hours every 3 months, otherwise we can accept no liability for the battery guarantee.
- Never charge the battery with other chargers.
- Don't allow liquids or metals to penetrate into the charger.
- Never charge the battery near infants and small children.
- Never use the charger in oily, dusty, dirty or damp environments and avoid direct sunlight.
- Avoid using the charger in thunderstorms.
- Always use the charger in cool, well ventilated places.
- Do not hit the battery and avoid strong vibrations.
- The guarantee is voided if the battery is opened or damaged.
- Your e-bike is designed for normal road traffic and for a single person. Never use your e-bike for extreme maneuvers, such as extreme off-road use, jumps or excess load. This could damage the e-bike and cause serious injuries.
- Only to be used with original charger which came together with the bicycle.
- As a road user you have to abide by the traffic regulations in your country.

12. Technical specifications

| E-bike parameters | |
|---|---------------------|
| Dimensions (L × W × H) | 1900 × 700 × 1180mm |
| Weight | ≤ 25kg |
| Maximum speed | 25 km/h |
| Maximum load | ≤ 120kg |
| Wheelbase between front/rear wheel hubs | 1135 ± 5mm |
| Power consumption per 1000 km | 1.2 kW/h |

| Motor parameters | |
|-------------------------|----------------------------------|
| Motor type | Brushless permanent magnet motor |
| Rated output | 250 Watts |
| Rated voltage | 36 Volts |
| Rated torque | 7Nm/32Nm |
| Motor effectiveness | >75% |

| Tyres | |
|-----------------------|-------------|
| Maximum tyre pressure | 3,5 – 6 BAR |

| Charger parameters | |
|---------------------------|------------|
| Full Charging time | 6,22 hours |
| Input voltage | 220V/60Hz |
| Maximum performance | 60 Watts |

| Control unit parameters | |
|--------------------------------|----------------|
| Low voltage protection | 31.5 ± 1 Volts |
| Over-voltage protection | 15 ± 1 Amperes |

| Battery parameters | |
|---------------------------|---------------------|
| Battery type | Lithium-ion battery |
| Capacity | 10.2 Ah |
| Battery voltage | 36 Volts |

13. Maintenance

Make sure you carry out the following safety checks before riding you E-bike:

Brakes

- Check that the brakes are working properly.
- Visual inspection of the brake linings to check that they are not worn and that they are aligned to the wheels.
- Make sure that the handbrake cables are attached properly and that there is no evidence of wear.

Crank and pedals

- Check that the pedals and crank are seated correctly.
- Check that the crank arm is properly fitted to the axle.

Lubrication

The chain should always feel greasy when touching. Under normal weather conditions you only need to lubricate the chain after every 200-300 km of riding. However, in rainy conditions it may be necessary to lubricate more often.

Washing

You may wash your bicycle when needed but you should avoid spraying water directly on electrical parts such as battery, motor in front hub, speed sensor in bottom bracket and display on handlebar.

14. Other information

- Make sure that all reflectors are properly fitted and not covered.
- Do not clean your e-bike with a pressure washer. Water could penetrate into the motor, cause short circuits and damage electrical components. Only ever use a damp cloth with a neutral detergent to clean your e-bike. Do not use acidic detergents as these could damage the e-bike.
- Do not over-lubricate. If oil gets onto the wheels or the brake pads, it reduces the performance of the brakes and increases braking distances.
- Never oil the tread of the pedals use grease instead. Wash excess oil from the wheels or brake pads with soapy water. Dry the e-bike before using it again.
- Don't forget your helmet!

Owners card

Congratulations with your new electrical bicycle. Please read owners manual and safety instructions carefully and make sure your bicycle is assembled and adjusted by an experienced mechanic before taking your first ride.

Production date

Model number

Frame number

Motor number

Controller number

Display number

Charger number

Battery number

Key number, battery

Key number, bicycle

In case of complaints or otherwise need for new electrical spareparts for your bicycle just show this card to your dealer and you will be sure to get the right compatible parts.

Date of purchase: _____

Place of purchase: _____

To be filled in at assembly. You can find above information on end of bike box.