neomouv

USER MANUAL

FURTIVOO

THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS

Model conforms to safety requirements

Product may differ from photos

CONTENTS

1-PRESENTATION:

Thank you for choosing a NEOMOUV Electric-Assisted Bicycle (E-Bike)

E-Bike Presentation:

Battery integrated into electric **motor** with **torque sensor**

Notes:

- The symbol △ indicates important advice or essential safety measures. Follow the various instructions.
- Some adjustment and assembly/disassembly operations require special tools and expertise; perform these only if you have the skills to do so, otherwise consult your authorised dealer or a specialist.
- The symbol 🛠 indicates the tools you will need to carry out adjustments.
- Your e-bike has a serial number engraved on the frame by the fork.

△ MAXIMUM LOAD: 120 KG. FOR YOUR SAFETY, YOU SHOULD NOT EXCEED THE MAXIMUM LOAD WHEN USING YOUR BICYCLE.

2- ADJUSTMENTS/ASSEMBLY:

2.1 Saddle adjustment:

🛠 6 mm Allen Key

2.1.1 Angle:

Loosen the nut under the saddle.

Adjust the angle of the saddle in order to find your most comfortable position. Tighten the nut under the saddle, with a maximum tightening torque of 13 Nm.

2.1.2 Height:

The power-assisted bicycle enables you to opt for a lower saddle position than on a classic bike. With power assistance, you expend less effort and can be seated in a lower position for improved safety. The required user (cyclist) height for optimal utilisation of the bike ranges from 1.65 to 1.85 m. So, adjust your saddle height to the correct sitting position as follows:

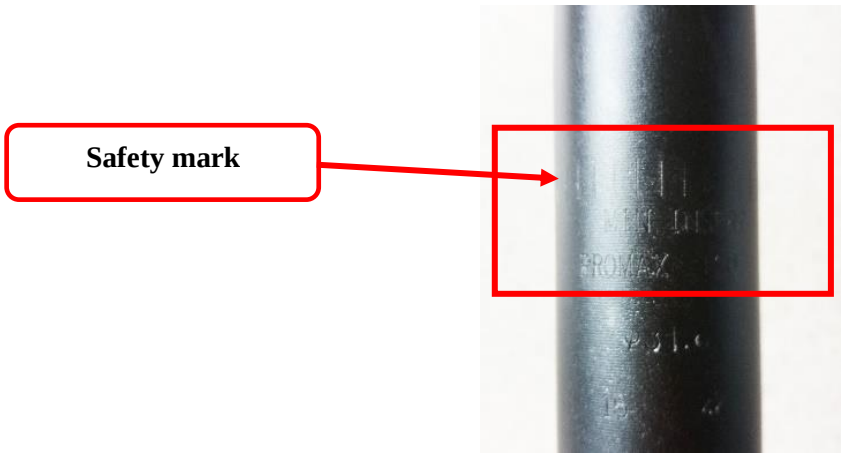
Loosen the nut on the seat clamp:

Wearing suitable cycling shoes, sit on the saddle, place one of the pedals in the lowest position, rest one heel on the pedal, and your leg should rest normally on the pedal without being stretched. Raise or lower the saddle to get the correct height. While pedalling backwards, you should not have to move your hips from side to side.

> *To calculate the height, you can also use the SH (Seat Height) formula = 0.885xIL (inside leg measurement). To measure your inside leg, stand barefoot with your feet five centimetres apart. Without applying too much pressure, place a pole or stick at horizontally at groin height and then measure the height from the stick to the ground. This will give you the IL (inside leg) measurement.*

Tighten the seat clamp (6 Nm).

△ THE SEAT POST SHOULD NOT BE EXTENDED BEYOND THE ENGRAVED SAFETY MARK (VERTICAL BARS).



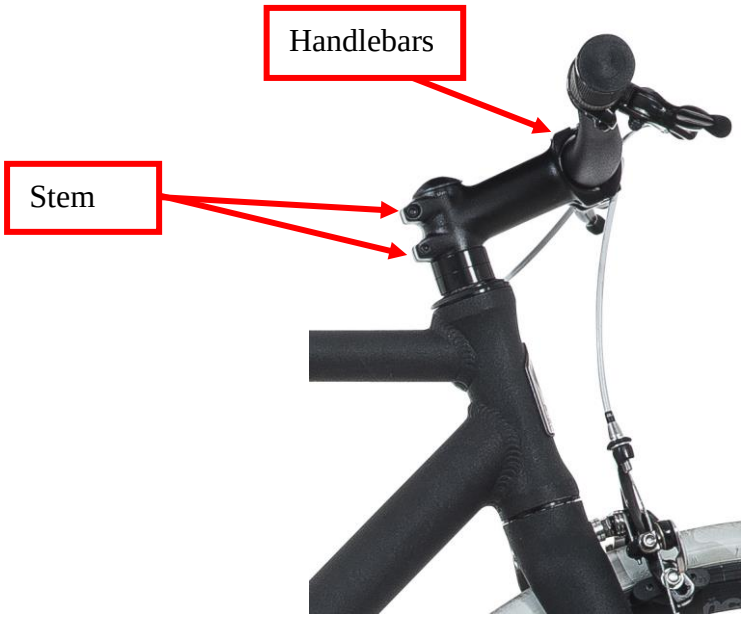
The minimum height between the highest point of the saddle and the ground is 85 cm.

2.2 Adjusting the handlebars and the stem:

🛠 5 mm and 3mm Allen keys.
🛠 6 mm Allen Key

You can adjust the angle of your handlebars using the four bolts located at the centre of them.

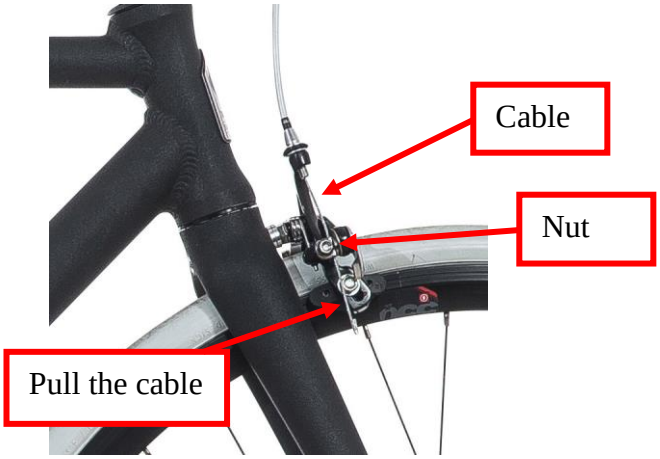
Max. tightening torque: 6 Nm.



Check the correct alignment of your handlebars with your wheel using the 2 nuts on the stem (6 Nm).

2.3 Adjusting the cable brakes:

1/Check the alignment of the pad with the side of the wheel rim.
2/Check the distance of the pads from the wheel rim (1 to 3 mm for effective braking).
3/Always move the back of the pad slightly away from the wheel rim.



To tune the tension of the brake cable, use the thumbwheel on the brake levers.

2.4 Mounting and dismounting the wheels *(rear wheels to be handled by a specialist)*:

2.4.1 Front wheel:

Dismounting the front wheel:

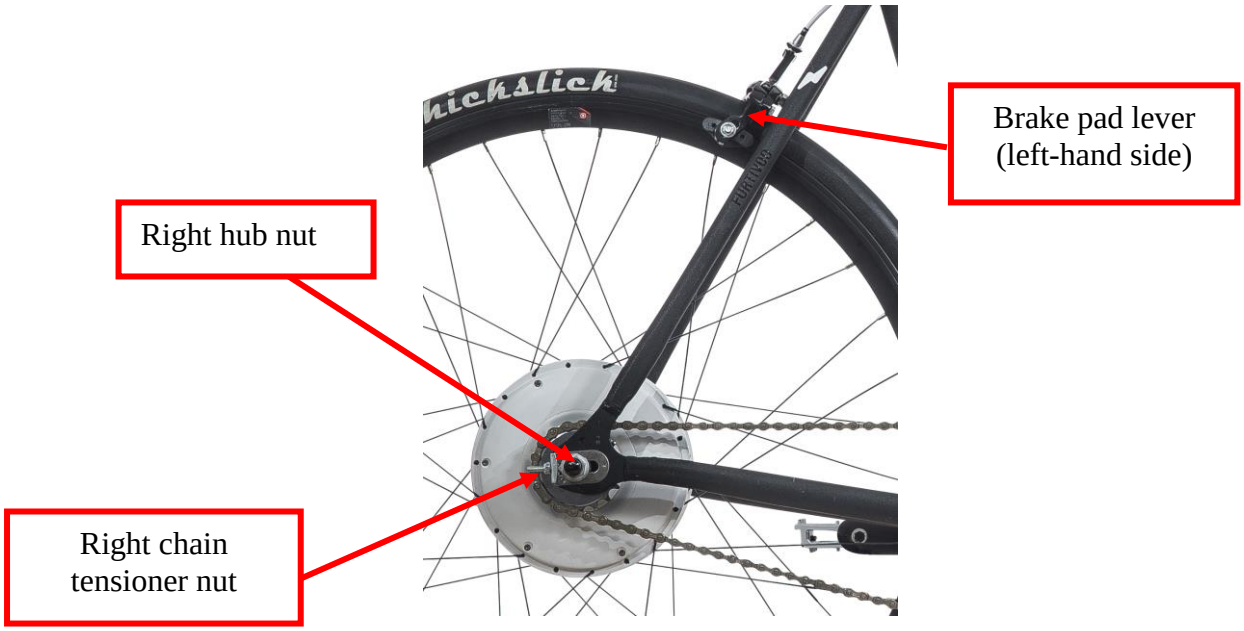
- You must first raise the lever which is at the same level as the brake pads to free the wheel
- Loosen the hub nuts on the right and left sides of the wheel and free the washers
- Slide the wheel forward to remove it.

Mounting the front wheel:

- Insert the wheel into the fork, making sure that the washers are facing outwards.
- Tighten the right and left hub nuts.
- Once the wheel is in place, reposition the brake pads by swinging the lever downwards.

Finally, check that the wheel brakes are working properly.

2.4.2 Rear wheel:

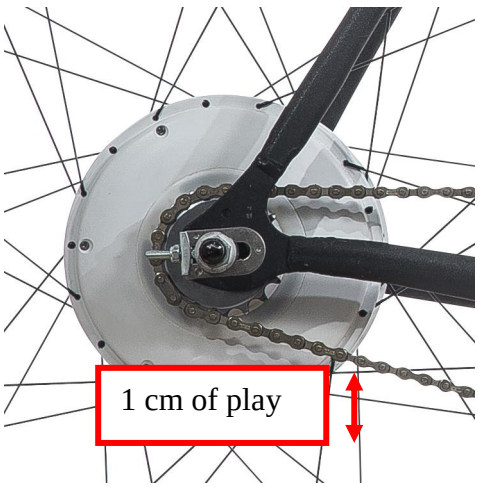


Dismounting the rear wheel:

- Lift the lever which is at the same level as the brake pads to release the rear wheel.
- Loosen the right and left hub nuts as well as the left and right chain tensioner nuts.
- Tilt the wheel forward to free the chain from the sprocket.
- Remove the wheel.

Mounting the rear wheel:

- Insert the wheel all the way into the frame to put the chain back
- Adjust the left and right chain tensioner nuts to adjust the tension and centre the wheel.
- Retighten the right and left hub nuts.
- Reposition the brake pads by swinging the lever downwards.



△ THE CHAIN MUST NOT BE TOO TAUT, LEAVE 1 COM OF VERTICAL PLAY WHEN ADJUSTING THE CHAIN TENSIONERS.

2.5 Lights:

- **A fixed front light** (2 x 2032 batteries) which is activated by a switch on the back of the light.

- **A battery-operated rear red light** (2 x LR03 batteries) which is activated by a switch on the bottom of the light.

△ ALWAYS KEEP YOUR LIGHTS CLEAN AND IN GOOD CONDITION.

△ LIGHTS ARE OBLIGATORY AT NIGHT.

3 - USING THE E-BIKE:

3.1 Getting started:

Pedal until you reach the speed of 8 km/h, then backpedal 3 times to activate power assistance.
The single-speed system makes using the Furtivoo intuitive (no gear shifting).
In addition, your bike can be ultra-connected if you use the Bitride app. This allows you to manage your settings via Bluetooth using your smartphone as the display.

Thanks to this app, you can:

- View your battery's charge level
- Keep updated on the power consumption (when you are riding) or energy recovery (when you decelerate or backpedal)
- Adjust your maximum assistance speed (25 km/h default)
- Choose your assistance level (higher or lower)

⇨ **Refer to the "start here" ZEHUS sheet or to the "user manual" supplied with it.**

3.3 Electric assistance:

3.3.1 Operation:

Once power assistance has been activated, all you have to do is pedal and the torque sensor adapts to your effort.
The torque sensor stops the power assistance when you reach the speed of 25 km/h or stop pedalling.
The motor switches off automatically after a few minutes of inactivity.

3.3.2 Performance:

The power-assisted speed of your e-bike is limited to 25 km/h. At this speed the motor's power supply is automatically cut off.

The battery life per charge of your bike depends on several factors:

- **Weight transported:**
  The expected performance of your bike is based on an average load of 75 kg.

- **External temperature:**
  The expected performance of your bike is based on an external temperature of roughly 20°C. Performance decreases below this temperature, but the decrease is only really discernible below 5°C.

- **Battery wear:**
  Your battery is designed to deliver stable performance for 1000 charge/discharge cycles (or an average use of 3 years). The battery will still be operational after those 1000 cycles but its performance and therefore range per charge will decrease proportionally.

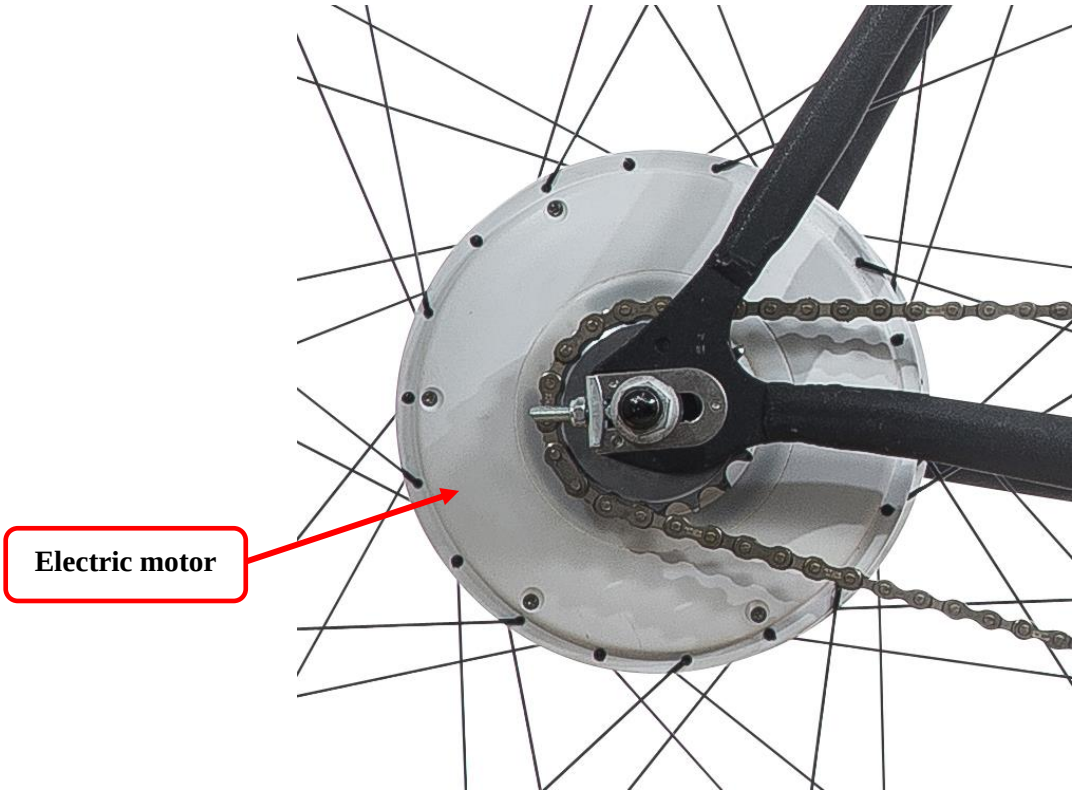
- **But the battery life per charge mainly depends on how you use the bike:**
  The theoretical battery life per charge is based on almost continuous use of the motor over flat or slightly undulating ground (10 to 20% slopes). If your travel is on flat ground and includes a number of descents (even if slight), your battery life is increased. If you are ascending inclines of more than 5% (the motor "struggles" above a grade of 8%), your battery life will diminish proportionally.

3.3.3 Technical specifications of the power-assistance system:

Motor: Brushless type – 250 watts
Battery: Lithium ion cell 29.6 V – 160 Wh
Life cycle: 1000 complete charge/discharge cycles under normal load conditions.
Battery life per charge: 30 to 60 km
(depending on the settings and the level of energy recovery for a user weighing 75 kg at an average speed of 18 km/h on an urban route).

3.3.4 The electric motor:

Located in the hub of the rear wheel, is a 250-watt BRUSHLESS electric motor. It requires no maintenance on your part and has the benefit of a two-year warranty. After 3 years or 25,000 kilometres, we advise you to get it checked by an authorised dealer or specialist. Although it is designed to resist water, we do not recommend cleaning it with a high-pressure jet.



4 – CHARGING THE BATTERY:

4.1 Charger:

⇨ **Refer to the ZEHUS "user manual" supplied with it.**

4.1.1 Precautions (safety instructions):

- Do not connect the charger plug to the mains with wet hands (risk of electrocution).
- All charging must be carried out in a ventilated area.
- Always check that the charger is compatible with the local power supply.
- Do not place the apparatus in a damp environment or near a flammable or explosive substance while it is charging (any charge producing heat involves the risk of fire or explosion).
- Do not store the apparatus while it is hot.
- Do not charge a faulty or worn-out battery.
- Do not leave a plugged-in charger and its connections within the reach of children.
- Do not attempt to disassemble the charger.

4.1.2 Protecting the charger:

- Do not expose it to rain.
- Do not leave the charger disconnected from the power supply (220 volts) but plugged into the battery.
- Do not submerge the charger.
- Do not place any objects on the charger or cover it.
- Look after the charger's input and output cables.
- To protect the charger after a long charging period (more than 24 hours), disconnect the electrical connection and let the device rest in a dry and ventilated space.
- Avoid leaving the charger connected to the mains for more than 24 hours.

△ WARNING! FOR YOUR SAFETY, OPENING THE CHARGER IS PROHIBITED (RISK OF ELECTRIC SHOCK – HIGH VOLTAGE). CONTACT YOUR DEALER SHOULD ANY FAULTS OCCUR WITH YOUR CHARGER.

4.2 The battery:

Your battery is built into your motor; we strongly recommend that you do not attempt to open or disassemble it, as this will automatically void the warranty.

The battery can be recharged in two different ways:

-With the charger for full charge cycles.
-With the energy recovery system while backpedalling or during deceleration.

△ **WARNING: THE ENERGY RECOVERY SYSTEM DOES NOT FULLY CHARGE THE BATTERY BUT SIMPLY ENABLES YOU TO EXTEND THE BATTERY LIFE PER CHARGE.**

△ **ONLY USE THE CHARGER SUPPLIED WITH YOUR BATTERY.**

△ **CONTACT YOUR DEALER SHOULD ANY FAULTS OCCUR WITH THE BATTERY.**

Recommendations / precautions to take with your integrated battery:

- Avoid any proximity to sources of heat.
- Do not expose the battery to temperatures higher than 40°C and lower than –20° C.
- Always check that the charger is compatible with the local power supply.
- When charging is finished, it is recommended that you disconnect the charger from the battery.
- **During periods when the bike is not in use, store the bike in a cool, dry place at a temperature above 10° C and lower than 40° C.**
- **Never leave your battery completely discharged for longer than 3 days, as this may damage it.**
- **In case of prolonged non-use, you must recharge the battery once every two months.**
- Never leave the motor exposed to the sun for long periods.
- Never charge the battery in the rain or in damp surroundings.
- Never open the battery. Opening it may lead to a significant risk of electrocution and void the warranty.
- Never spray the motor directly with water or any other liquid.
- Do not submerge the motor.
- Only use the charger provided to charge your battery. Using any other charger that is not adapted for the battery may result in an accident.

△ **WARNING! IN CASE OF VERY INFREQUENT USE OF THE BATTERY (ONCE EVERY 2 MONTHS ONLY), THE BATTERY'S CAPACITY WILL DIMINISH MUCH MORE RAPIDLY THAN WITH REGULAR USE. THE BATTERY'S ENERGY COMES FROM A CHEMICAL REACTION THAT REQUIRES SUFFICIENTLY REGULAR ACTIVATION TO MAINTAIN ITS EFFECTIVENESS.**

△ **WARNING! YOU MUST NOT THROW YOUR CHARGER OUT WITH YOUR HOUSEHOLD WASTE. A SELECTIVE COLLECTION SYSTEM FOR THIS TYPE OF PRODUCT HAS BEEN SET UP IN MOST TOWNS: YOU CAN CONTACT YOUR LOCAL COUNCIL FOR FURTHER INFORMATION. ELECTRICAL AND ELECTRONIC PRODUCTS CONTAIN TOXIC SUBSTANCES THAT ARE HARMFUL TO THE ENVIRONMENT AND HUMAN HEALTH AND THEREFORE MUST BE RECYCLED.**

5 - TIPS FOR INCREASING THE BATTERY LIFE PER CHARGE:

To increase the battery life per charge of your bike, you can set your power assistance using the Bitride app by limiting the motor's power (from 0 to 100%) or by limiting the maximum assistance speed (up to the limit of 25 km/h).
Lastly, the more you use energy recovery to recharge the battery, the more you gain in battery life per charge.

△ Make sure that you keep the tyre pressure between 7 and 8 bars (according to your body type), as this enables the optimal performance of your bike.

6 - UPKEEP AND MAINTENANCE:

6.1 Upkeep:

To keep your bike in good working order, maintain it regularly:

- Replace the brake pads as soon as they become worn.
- Clean your bike regularly with a sponge and soapy water.
- Do not use detergent or petrol, or a high-pressure jet spray.
- Clean and lubricate the bearings every 6 months.

When you are cleaning your bike, take particular care:
To clean, rinse, and dry the different parts of the bike, and wipe off any standing water to avoid the risk of early corrosion.

6.2 Lubrication:

Lubricate lightly and regularly (about once a month):

- The chain

6.3 Maintenance:

Like any mechanical component, a bicycle is also subject to stress and wear. Different materials and components may react differently to wear or erosion.

If the lifespan of a component has been exceeded, it may break suddenly, potentially causing injury to the rider. Cracks, scratches, and discolouration in areas that are subjected to high stress indicate that the component has exceeded its lifespan and should be replaced.

△ DO NOT USE LUBRICANTS ON THE SURFACE OF THE WHEEL RIMS OR ON THE TYRES, OR ON THE FRONT AND REAR BRAKE SHOES.

△ CHECK THE CONDITION AND CORRECT FUNCTIONING OF THE SIGNALLING DEVICES (E.G., BULBS, ETC.), AND CLEAN THEM IF NECESSARY WITH A DRY CLOTH.

7 - SAFETY – RECOMMENDATIONS:

Regularly check the following points:

- The tightness of the wheel nuts (25 Nm for the front, 25 NM for the rear).
- Tyre wear (replace the tyre as soon as the wear indicator has been reached) and adjust the pressure to between 7 and 8 bars). Your bicycle's tyres are compatible with the rim base, so no modifications must be made to these. Only the appropriate spare parts (tires, inner tubes, brake friction elements, etc.) are to be used. Contact your dealer for more information.
- Check the tightness of the handlebars (6 Nm), pedals (20 Nm), and saddle (6 Nm).

Because of its weight and motor inertia, allow ample distance for braking your e-bike, especially in wet weather.

Your e-bike is adapted for use in cities.

On public roads, everybody who is rides a bike must respect and apply the provisions of the highway code of the country they are in as well as the legal requirements for this type of transport. (e.g., lights, signalling, wearing a helmet (recommended), reflective devices, etc.).

For the safe use of your bike, we recommend periodically checking and inspecting: the brakes (wear of the pads), the condition of the wheel rims and spokes (wear of the wheel rims and spokes), the condition of the tyres, the steering (fastenings, tightness of the wheel nuts) and all other parts specific to your vehicle. The wheel rims must be smooth, without any cracks, breakage, or deformities. If you notice any anomaly with the wheel rims, please get them checked immediately.

WARNING! Like any mechanical component, a bicycle is also subject to high levels of stress and wear. Different materials and components may react differently to wear or erosion. If the predicted lifespan of a component has been exceeded, it may break suddenly, potentially causing injury to the rider. Cracks, scratches, and discolouration in areas that are subjected to high stress indicate that the component has exceeded its lifespan and should be replaced.

For your safety, it is equally important to replace any critical components that are presenting with signs of wear or any other problem (e.g. tyres, wheel rims, etc.) with original parts. Contact your dealer.

Stay alert; do not spend too much time looking at the bike's display while you are driving.
For your safety, it is recommended to routinely have the bike lights on.

We strongly recommend that you wear a helmet.

Wearing a high-visibility vest is mandatory when riding in traffic at night, or on days when the visibility is poor.

8 - TECHNICAL DATA

FITTINGS	MAX. TIGHTENING TORQUE
Pedal axle	40
Pedals	20
Front wheel axle	25
Rear wheel axle	25
Seatpost	6
Stem and handlebar	6
Saddle angle	13

CHARACTERISTICS

MODEL	FURTIVOO
Total weight (battery included)	13.5 kg
Maximum load allowed	120 kg
Maximum speed in assistance mode	25 km/h
Battery life (for a user weighing 75 kg riding at an average speed of 18 km/h on an urban route)	30 to 60 km for 160Wh
Battery	Lithium Ion 1000 cycles
Voltage	29.6 V
Motor:	Zehus AIO
Nominal yield	250 watts
Charger voltage	31.2 V
Tyre dimensions	700C
Tyre pressure	7 to 8 bars
Development (number of teeth on the sprockets)	18
Chainring (number of teeth)	46

9 - DECLARATION OF CE CONFORMITY

Available on our website: www.neomouv.com/fr/telechargement/

10 - CERTIFICATE OF CONFORMITY

Available on our website: www.neomouv.com/fr/telechargement/

11 – TERMS OF WARRANTY

For any further information about warranty, please contact your store.

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SAS with capital of 1 200 000- RCS Le Mans 518 158 183
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