



Warning!

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Please, pay attention to the following safety advices, in order to enjoy a safe driving experience:

- First of all, you need to charge your batteries fully before using it.
- Read carefully this User Manual, and before riding, check if the vehicle is in perfect working condition.
- Overloading is strictly prohibited.
- In order to insure the battery's lifespan, a charge should be done after each use. Total discharges are harmful.
- It is forbidden to touch the electric contacts in the battery box. Touching, with wet hands or metal objects, simultaneously in the positive (+) and negative (-) contacts, could cause injuries and / or burns, and short - circuit in the vehicle. Please pay special attention to this point.
- Please do not disassemble or repair without technical assistance from an Authorized Dealer, and always use original parts. A poorly performed maintenance can cause damage and/or accident.
- This vehicle can run normally, since the water level does not exceed the center of the electric motor, at the risk of water infiltration and short circuit, damage and accidents.
- Use of a bicycle helmet, regular checks on brakes, tyres, steering, rims and caution concerning possible increased braking distances in wet weather;

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Parts description

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Daily checks

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To ensure your safety, make the following functional checks before driving:

- 1 - Normal operation of the light, brake and power cut systems.
- 2 - Tire pressure (low pressure, will influence both autonomy and speed).
- 3 - Wheel axle tightening.
- 4 - Battery charge level.
- 5 - Braking system adjustment and free operation.



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Assembling instructions

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1. Carefully take out the electric bike from its carton;
2. Please tighten the handlebar-stem with the following instruction:
A. Use M6 spanner to tighten; B. Press the rubber after tightening



Assembling instructions

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Please tighten the handlebar-stem with the following instruction
Setp1, Setp2, Setp3



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Battery charging

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Charging methods

The vehicle battery must be recharged when finished using or when running low. You can charge the battery, either assembled or removed from the vehicle. Please take proper attention to the following charging methods:

1. remove the battery case
2. with the key, unlock the battery case at its base
3. remove the battery, pulling the battery box's handle

With the battery removed

1. When the battery is removed, do not touch the "+" and "-" contacts, especially with wet hands or metallic objects.
2. Do not recharge the battery in the inverted position. If you do, you risk drastically reducing its lifespan.
3. Place the charger in a flat, secure place, and connect the output plug (24V/36V terminal) to the socket in the battery box.
4. Then, connect the input plug (110V/220V terminal) to the power outlet, and the charging will start.
5. After the charging has finished, first, unplug the input plug (terminal 110V/220V), and then the output plug.

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About charging

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If charging with the battery removed

- 1 - The charger does not need to be connected to be grounded.
- 2 - Keep the charger in a safe place, away from children.
- 3 - Do not use the battery when not fully charged. That will decrease its lifespan.
- 4 - Do not charge the battery with other chargers than the original.
- 5 - The charger works with 110/220V. Please do not open it without permission.
- 6 - Avoid charger contact with liquids and/or metal objects. Always be sure it is safely stored/placed so that it can not suffer damage from a fall/impact.
- 7 - When in use, the charger should not be covered, to prevent overheating, damage, or fire.
- 8 - The charger is only for indoor use. Please keep it in dry and ventilated place.
- 9 - If you notice a strange smell coming from the charger, or it is too hot, please stop charging, and contact an Authorized Center.

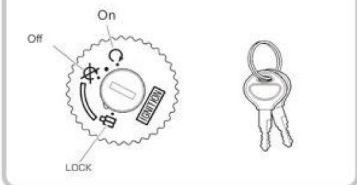
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Driving

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How to start up the vehicle

A. Insert key and turn it to the ON position. At this point, the charge indicator light will turn on, indicating that the vehicle is powered on.



B.



Press ON/FF to start the power:
*Press 6km/h to start 6km/h speed automatic riding without pedals
*Press mode to select the pedal assistant power with pedals (Low-Med-High)
Low=60% of max speed;
Med=80% of max speed;
High=100% of max speed
L-H is indicating the battery power



Option: Please check the LCD display manual for details.

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Basic maintenance

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For a safe driving experience, please keep your vehicle in perfect condition, making maintenance and washing regularly.

Regular self-checks.

1. Tightening and correct operation of both wheels, frame and front fork.
2. Tire pressure and conditions.
3. Gearshift correct operation.
4. Bell and reflectors conditions and correct operation.
5. Braking system correct operation.
6. If you do not use the vehicle for long periods of time, charge the battery at least once a month, to avoid reducing its lifespan.

Maintenance and cleaning tips

1. Do not wash with high pressure jets to prevent water infiltration into the electrical system.
2. Dirt on painted surfaces should be removed with a neutral product. Then, wipe with a dry cloth.
3. Lubricate the vehicle with suitable lubricant, after washing.
4. Do not apply lubricant on the brakes, brake levers, rims, tires, battery and controller.

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About Charging

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When the battery is charging on the bike

1. Please switch off the power and remove the key.
2. Remove (rotate to open) rubber stopper in the charging hole, and the stopper should be kept well. Then, first plug in output plug (24/36V terminal) of charger to the socket of battery box, after that, plug in power input plug (110/220V terminal) to household power socket to start charging.
3. After charging is finished, first pull out the power input plug (110/220V terminal) and then pull out the output plug.



Charger socket

Duration if charging

1. When the input and output terminal are connected, the red indication light of the charger will be turned on, showing that the power is being connected.
2. When the battery is charged for the first time, 8-10 hours should be spent for charging. When the green indication light of the charger is turned on, showing that the battery is basically full and it will switch to trickle charge mode to ensure that over-charging will not occur, it takes 2-8 hours for normal charging.
3. This charger has the protection device for over-charging. Long time charging should not be more than 24 hours without affecting the life time of the battery.

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Driving

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Important tips while driving

- 1 - In order to reduce consumption, increase autonomy, and extend the motor's lifespan, use the pedals during the startups and climbs.
- 2 - Do not push the throttle too fast. The vehicle should accelerate slowly, reducing consumption and risk of damage to the electrical system. It's better to use the pedals to help during startups.
- 3 - To increase security and reduce power consumption, it is advised to avoid sudden stops and startups.
- 4 - The vehicle controller has a charge overload protection. If on overload, energy will be cut automatically and restored when it returns to normal.
- 5 - While driving, avoid using the throttle as you brake, as it may damage the motor.
- 6 - The maximum load is 90kgs. Avoid driving with superior weights. Do not drive too fast.

Important tips when parking

- 1 - When pushing the vehicle manually, turn off the power, to avoid accidental acceleration and accidents.
- 2 - It is recommended to park indoors. Do not forget to switch off the power and remove the key.
- 3 - In a public place, the vehicle must be parked in accordance with local traffic rules. Do not forget to switch off the power and remove the key.

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Continual mileage

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Continual mileage on one time charging: 25-40km (active state)

Conditions of the testing: wind speed: level 2-3, normal atmosphere temperature: 25 degree, load: 90kg, atmospheric pressure: 3.5kg/cm, flat bitumen concrete surface; battery: full and leave factory with the bike.

Surface	Range				Driving condition
	10km	20km	30km	40km	
Flat					wind level: 2-3 normal temperature: 25°C normal load
Flat					against wind level: 2-3 normal temperature: 25°C normal load
upslope/downslope					degree of slope: < 2 degree wind level: 2-3 normal temperature: 25°C normal load

Max speed (25km/h) miles of journey Economy speed (10km/h) miles of journey
Power consumption of one time charge: ≤ 0.5kw.h rated load: 90kg

Economical speed: 18km/h Dead load: ≤ 30kg

The load haul is related with road, road surface, times of start-up, times of braking, wind direction, atmospheric temperature, air pressure in the tyre and correct way of charging, please note this during driving.

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Diagnose and troubleshooting

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	Symptoms	Possible causes	Most common solutions
1	It doesn't work	(1) Insufficient battery power (2) Faulty connections (3) Key in wrong position	(1) Charge the battery (2) Clean the connections (3) Turn the key into the correct position
2	Irregular acceleration and/or reduced top speed	(1) Insufficient battery power (2) Loose throttle magnet (3) Damaged throttle spring	(1) Charge the battery (2) Weld and adjust (3) Contact an Authorized Service Center
3	When powered on, the motor doesn't respond	(1) Loose wiring (2) Loose throttle magnet (3) Loose or damaged motor wiring plugs	(1) Repair and/or reconnect (2) Weld and adjust (3) Contact an Authorized Service Center
4	Reduced range	(1) Low tire pressure (2) Low or faulty battery charge (3) Driving with too many hills, headwind, braking, departures, and/or excessive load (4) Battery discharged for long period of time, without regular charges, aged or damaged	(1) Adjust the tire pressure (2) Check the connections and/or fully charge the battery (3) Help with the pedals (4) Replace the battery (5) Make a prolonged battery charge
5	The battery won't charge	(1) Charger not well connected (2) Battery case's fuse blown (3) Battery wiring disconnected or with a bad contact	(1) Adjust the connections (2) Replace the fuse (3) Reconnect/repair the wiring
6	Driving wheel makes strange noises	(1) Damaged motor bearing (2) Bent or misaligned rim	(1) Replace the bearing (2) Adjust/replace the rim

For your safety, do regular maintenance and tightening checks. If you find any abnormality, repair immediately.

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Recommended torque values for threaded fasteners

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No.	Parts	Torque required(N.M)
1	Handlebar	18-20
2	Handlebar-stem	18-20
3	Saddle	18-20
4	Seat-pillar	18-20
5	Front wheel	16-25
6	Rear Wheel	25-35
7	B.B Parts	35-55

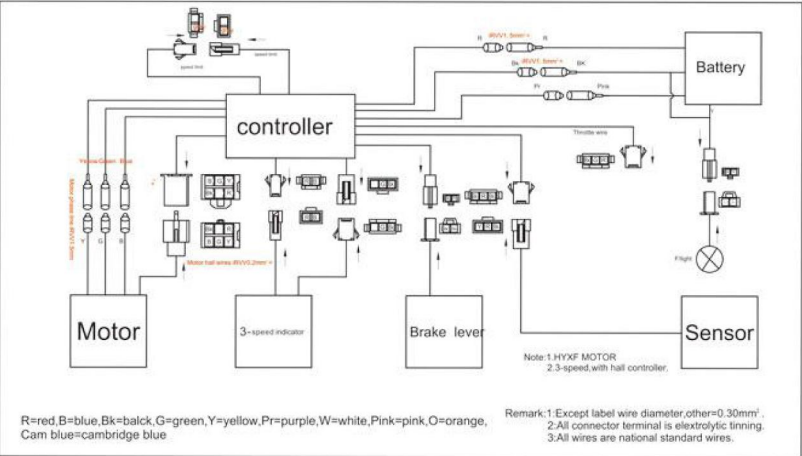
Minimum saddle height and the way to measure

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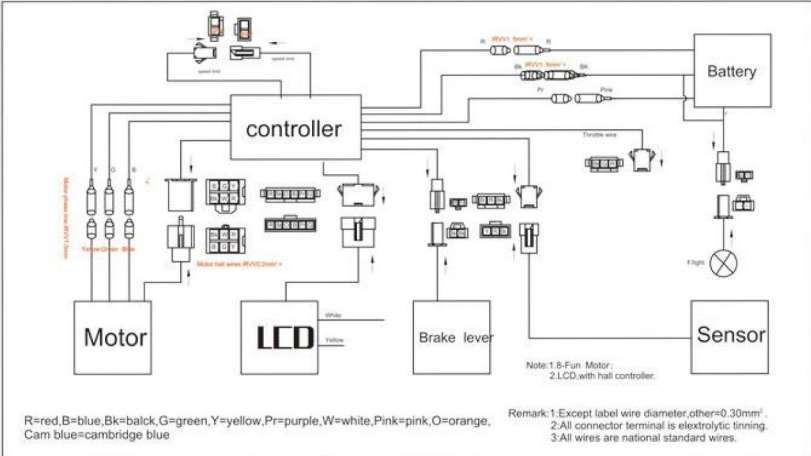
The wiring diagram with 3-speed display

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The wiring diagram with LCD display

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Battery maintenance and saving tips

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Frequent braking and starting, riding uphill, traveling against a strong wind, starting from a standstill and riding on rough or muddy roads, and carrying more than one person, or heavy loads will consume extra battery power and shorten the range. A few tips to prolong the battery life during these conditions are as follows:

1. Frequent Braking—try to look ahead and coast rather than stop and go frequently.
2. Riding uphill or against a stiff wind—pedal to supplement the battery power.
3. When starting from a standstill—use the pedals to help bring you up to speed.
4. When the battery meter indicates the voltage is low, switch to manual power and avoid using the battery so you don't shorten the battery life.
5. If the battery is being stored, remove the battery from the bicycle and recharge it every month.

Useful tips

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- 1-This User Manual's only to explain the vehicle's use and functions, and should not be used as reference for its inspection.
- 2-The images shown may differ from the actual model presented in the shops.
- 3-We reserve the right to change the model without prior notice due to technical improvements.
- 4-This vehicle has a top speed limiter. For security reasons, its removal is strictly prohibited.

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User Manual

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