

Skycore

USER MANUAL



After-sales Email: question@skycoresport.com



To watch the installation video, please scan the QR code to access the YouTube channel.

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1. Safety & Precautions

1.1 Warnings

1.1.1 Inherent Risks

The use of an electric motorcycle carries inherent risks. In certain situations, the operation of an electric motorcycle may involve the following risk factors: even if the vehicle itself has no manufacturing defects, malfunctions may still occur during use. An electric motorcycle is a sport-type vehicle, and loss of control while riding may result in falls, collisions, or other hazardous situations. These risks cannot be completely eliminated through careful operation, guidance, or riding skills alone. In the event of such accidents, serious personal injury or even death may occur, regardless of whether protective gear or other safety measures are used.

Please note: Riding requires the rider to have sufficient understanding, assume personal responsibility for risks, and always exercise rational judgment and common sense.

1.1.2 Warnings and Precautions

This user manual contains numerous warnings and precautions. Users should fully understand that failing to inspect or maintain the electric motorcycle as required may result in serious consequences. We declare that if a user suffers injury or death after being clearly informed of the warnings and precautions, the responsibility rests solely with the user. All warnings have been repeatedly emphasized, and ultimate responsibility lies with the rider.

1.1.3 Pre-Ride Manual Review

Do not use this electric motorcycle without carefully reading and fully understanding this user manual before riding.

1.1.4 Proper Installation of Components

Strictly follow the instructions in this manual when installing all components of the electric motorcycle. Improper installation may lead to loss of control, collisions, or accidents. Always turn off the power before performing installation, maintenance, or repairs. Ensure all components are installed with appropriate tightness; overly loose or overly tight installation may cause damage or malfunction.

1.2 Rider Instructions

1.2.1 This electric motorcycle is recommended for users aged 13 years and older. Individuals below the recommended age should not operate the vehicle. Age range: 13 – 50 years old.

1. Safety & Precautions

Parental Notice: As a parent or guardian, you are responsible for your child's safety and activities. It is strongly recommended that children are kept away from the motorcycle.

1.2.2 The following individuals should exercise caution when riding: persons with heart conditions, pregnant women, those with head, back, or neck disorders, or anyone with a history of surgery or childbirth affecting these areas.

1.2.3 Any person riding the motorcycle must have adequate physical flexibility and mental capacity to recognize, understand, and follow all safety instructions, and be capable of handling the inherent risks of using the equipment. Before riding, check and comply with local laws and regulations regarding electric motorcycle use.

Always inspect the motorcycle's condition before riding and ensure it is safe to operate.

1.3 Safety Riding Tips

Always wear a certified hard-shell helmet (all riders are required to wear a helmet).

It is recommended to wear gloves, elbow pads, knee pads, and long pants.

Tie your shoelaces securely and wear shoes with rubber soles.

Riding barefoot or wearing open-toed shoes is strictly prohibited.

Wearing protective goggles is recommended to prevent dust, debris, or insects from entering your eyes.

In bright light conditions, wear dark-tinted goggles; in low-light conditions, wear high-transparency goggles.

Riding in high-heeled shoes is strictly prohibited.

1.4 Battery

⚠ Warning: Do not store the battery in environments above 70° F (21° C) or below 32° F (0° C). Always wash your hands after handling the battery, as it contains chemical compounds.

⚠ Warning: Do not throw the battery pack into fire. The battery pack may explode.

Do not mix new and old batteries.

Do not mix alkaline, standard (carbon), or rechargeable (Ni-Cd) batteries.

This product contains a built-in lithium-ion (LFP) battery. It must be disposed of in accordance with local battery recycling and disposal regulations.

Do not dispose of lithium-ion batteries casually or with household waste.

The lithium-ion battery in this product is sealed and must be properly processed.

For more information on battery recycling or reuse, please contact local recycling centers, reuse centers, or hazardous waste disposal facilities.

1, Safety & Precautions

1.5 Prohibited Roads

1.5.1 Do not ride on highways or roads designated exclusively for motor vehicles.

1.5.2 Do not ride on roads with a slope greater than 30°, and avoid steep hills, uneven roads, or unfamiliar terrain.

1.5.3 Do not ride indoors or on surfaces that may be damaged, such as carpets or floors. Do not ride on outdoor roads until you are fully familiar with the operation of the vehicle.

1.5.4 The more thoroughly you practice, the safer you will be in new environments. Follow these basic practice guidelines: Begin in a wide, safe area (at least 10m × 10m).

Practice basic skills including riding straight, turning, and braking.

Keep your body relaxed during practice.

First rides are recommended under the guidance of experienced personnel or a coach.

Gradually practice turning, control, and stopping in confined spaces; with practice, your skills will improve.

1.5.5 Do not ride on public roads until you can accurately control the vehicle through narrow areas and simulate various terrains.

1.5.6 After each upgrade to the electric motorcycle, you must reacclimate to the vehicle's handling. Always practice in a safe area similar to the obstacle conditions before riding on open roads.

1.5.7 Do not ride on surfaces that are wet, muddy, icy, bumpy, uneven, slippery, or rough.

1.5.8 Never immerse the vehicle in water, as this may damage the electrical system and drive components, creating potential safety hazards.

1.5.9 Avoid riding in areas with low visibility.

1.5.10 Do not ride on highways or run red lights. Always follow traffic laws and yield to pedestrians.

When riding on roads or sidewalks, respect other road users, including motorcyclists, cyclists, pedestrians, and other traffic participants. Stay aware of your own safety, monitor the vehicle's condition, and pay attention to pedestrians and surrounding traffic at all times.

1.6 Overloading

Do not exceed a total weight of 120 kg when using the motorcycle.

Recommended rider weight is approximately 80 kg. Exceeding 80 kg may cause permanent damage to the motorcycle and chain.

1. Safety & Precautions

1.7 Adverse Weather Conditions

- 1.7.1 Do not ride in adverse weather conditions, including but not limited to rain, humidity, extreme dryness, cold, fog, strong winds, or storms.
- 1.7.2 To prevent water ingress, do not ride in heavy rain or for extended periods in wet conditions. Never immerse the battery or frame in water.
- 1.7.3 Do not clean the motorcycle using strong water flow or high-pressure washers, as water may enter the body or charging port.
- 1.7.4 If your electric motorcycle is exposed to a storm for an extended period, stop using it immediately, wipe the vehicle with a dry, soft cloth, and contact customer service as soon as possible. Other than cleaning, do not perform any other operations yourself, as improper handling may void the warranty.

1.8 Hot Components After Operation

After using the vehicle, do not touch the motor or brake system. These components can become extremely hot during operation, and direct contact may cause skin burns.

1.9 Risk Reduction

- 1.9.1 To reduce risks and avoid life-threatening situations, always keep both hands on the handlebars at the start of riding. High-risk maneuvers are strictly prohibited.
- 1.9.2 Do not use this electric motorcycle for transporting goods.
- 1.9.3 Slow down in advance when approaching intersections, motor vehicle lanes, turns, or entrances/exits, and yield to pedestrians, bicycles, and motor vehicles.
- 1.9.4 Do not ride this electric motorcycle if you feel unwell, cannot fully understand or follow the instructions in this manual, or after taking medication or consuming alcohol.
- 1.9.5 Comply with local traffic laws and regulations to ensure legal and safe operation of the electric motorcycle.
- 1.9.6 It is your responsibility to understand and comply with local regulations regarding where and how electric motorcycles may be used.

1. Safety & Precautions

1.10 Maintenance and Safety Checks

1.10.1 This manual is not an exhaustive guide for maintenance.

1.10.2 Before your first ride, it is recommended to have a comprehensive safety check performed by a reputable and experienced bicycle/electric vehicle technician in your area.

1.11 Waterproofing and Protection Level

1.11.1 This vehicle can withstand normal rain without serious damage.

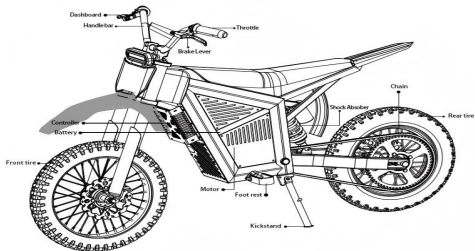
1.11.2 The vehicle's overall protection rating is IPX6.

This does not mean that the bicycle and its mechanical and electrical components are completely waterproof. We do not recommend storing or using the bicycle in excessively humid environments.

2. Packing List

				
pedals	Screws and cover plates		Headlights	Toolkit
				
Mudguard	Charger	Front Fairing	Front wheel	Electric Bike

3、Product Overview

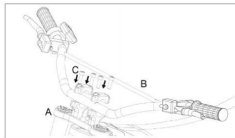


4、Product Specifications

Category	Item	Specification	Category	Item	Specification
Basic Information	Model	—	Battery	Battery Type	Lithium-ion Battery
	Weight (Including Battery)	53 kg		Capacity	23 Ah
Rider Requirements	Age	13 - 50		Charging Input	AC 110V - 240V / 50 - 60Hz
	Max Load	120 kg		Charging Time	7 - 8 hours
Main Specifications	Rated Motor Power	1500 W	Motor	Nominal Voltage	48 V
	Range	50 km (Gear 1 - 3)		Motor Type	<u>Brushless Motor</u>
	Seat Height	70 cm		Max Motor Power	1500 W
	Wheelbase	104 cm		Voltage	48 V
	Minimum Ground Clearance	21.5 cm	Main Specifications	Operating Temperature	32° F - 86° F
	Climbing Ability	30°		Battery Storage Temperature	Optimal battery storage temperature: 45° F - 68° F
	Net Weight	53 kg	Dimension ⁸	Product Dimensions	1520 × 790 × 1000 mm
	Gross Weight	59 kg		Package Dimensions	1280 × 325 × 660 mm

5, Assembly Instructions

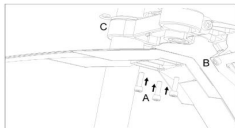
5.1 Install the handlebar assembly



A: Handlebar clamp; B: Handlebar; C: Screw (4)

Handlebar (B) vertically and horizontally onto the handlebar clamps(A). Install and tighten 4 screws with 6mm hex wrench. Press and pull the handlebar after installation, ensure the handlebar is tight by applying pressure, handlebars should not move backwards or forwards.

5.2 Install the front fender

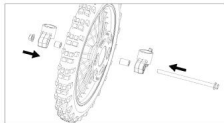


A: Screw (3); B: Front fender; C: Triple clamp

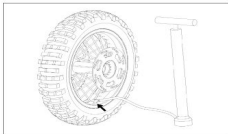
Front fender (B) vertically and horizontally onto the Triple clamp (C). Install and tighten 3 screws with 5mm hex wrench cross and fix the front fender. Press and pull the front fender after installation, ensure the front fender is tight by applying pressure, front fender should not move backwards or forwards.

5, Assembly Instructions

5.3 Install the front wheel



5.4 Tire Inflation



Tool Required: Air/tire Pump

Tire is inflated to the maximum PSI prior to shipping however some air pressure maybe lost between the manufacture date and your purchase date. Using a hand pump with a Schrader-type valve and pressure gauge inflate the tires. It is not recommended to use pressurized system similar to the ones found at gas stations as these are designed to inflate automobile tires that have much higher air capacity volumes.

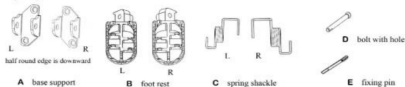
⚠ Warning: Before riding, ensure the rear tire pressure is within the normal range.

5、Assembly Instructions

5.5 Install the footrest

Foot Rest Assembling Instruction

Spare parts



Attention: As the base support foot rest spring shackle (A B C) should be matched to different side(L/R). Do please take out the spare parts at the same side before assembling.



5, Assembly Instructions

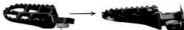
Left foot rest assembly



Step1 Fix the base support A to the body.



Step2 Put the C on the short shaft of B, the bigger hook should be hung on the A as picture on the right.



Step3 Hang the smaller hook to A first, then push B&C into the A with a little force as same direction as shows. Keep the holes in line.



Step4 Insert the bolt and insert the fixing pin to the little hole. Bending the pin by needle-nose pliers to fix the bolt.

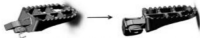
Right foot rest assembly



Step1 Fix the base support A to the body.



Step2 Put the C on the short shaft of B, the bigger hook should be hung on the A as picture on the right.



Step3 Hang the smaller hook to A first, then push B&C into the A with a little force as same direction as shows. Keep the holes in line.



Step4 Insert the bolt and insert the fixing pin to the little hole. Bending the pin by needle-nose pliers to fix the bolt.

5, Assembly Instructions

5.6 Install the brake



Step 1: Unscrew the bolts — Remove the screws completely.



Step 2: Remove the retaining clip



Step 3: Fit onto the brake rotor — Align the caliper with the rotor and gently slot it in place.



Step 4: Adjust position and tighten bolts — Make sure the caliper is parallel to the rotor, then tighten the screws to secure it.

5.7 Post-installation shock absorber



Step 1: Align the rear shock absorber with the mounting holes.



Step 2: Insert the screw and tighten it

5. Assembly Instructions

5.8 Install headlights



Step 1: Connect the interface — align the protrusions and recesses before inserting (arrow to arrow).



Step 2: Secure it to the handlebars and tighten the screws

6. Charging Instructions

Before using the electric motorcycle, make sure the battery is fully charged.

1. Open the rubber dust cover on the charging port on the right side of the battery.
 2. Check the power switch indicator to make sure the battery is turned off.
 3. Insert the charger plug into the battery's charging port. The battery can be charged either while installed on the vehicle or after being removed.
 4. Place the charger on a flat, stable surface and connect the DC output plug to the charging port on the side of the battery.
 5. Plug the charger into a power outlet. Charging will start automatically. The LED indicator on the charger will turn red to show that charging is in progress.
- When the battery is fully charged, the indicator light will turn green.

First unplug the charger from the power outlet, then disconnect the charger plug from the battery's charging port.



7. Starting & Riding

7.1 Pre-Ride Inspection

To ensure a safe ride, always inspect the following items before riding:

Brake Levers (Brakes)

Check that the braking system is responsive and reliable, and that motor power is cut off when braking.

Make sure the brake tension is properly adjusted and that the brakes respond quickly and can effectively stop the wheels and the vehicle.

Throttle

Before twisting the throttle, make sure you are in an open, safe area.

Ensure you are well balanced on the scooter and holding the handlebars firmly with both hands.

Tires

Check that the wheels rotate smoothly and that tire pressure is within the normal range.

Only ride after confirming the rear tire pressure meets the specified PSI range.

Battery

Check that the battery is fully charged before riding.

Turn off the power switch when the scooter is not in use.

Do not store the product in freezing or extremely hot environments. The recommended storage temperature is 45° F – 68° F (7° C – 20° C).

Extreme temperatures may cause permanent damage to the battery.

When the battery level is low, the scooter may not maintain expected high-speed performance. Recharge promptly for the best riding experience.

Frame and Front Fork

Perform a full inspection before every ride.

If you notice any cracks, damage, excessive wear, or loose parts, repair or replace them before riding.

Dashboard (Display)

After powering on, confirm that the display is functioning properly.

Check the remaining battery level and make sure no warning or error indicators are showing.

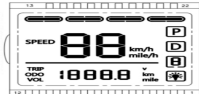
7, Starting & Riding

7.2 Pre - Ride Guidance

Before riding, please make sure of the following to ensure your safety:

- 1.The scooter starts in Gear 1 (ECO mode) by default.
 - 2.This scooter has three speed modes, which can be switched using the buttons on the dashboard. For safety reasons, riding in higher speed modes is not recommended.
 - 3.When riding at high speeds, make sure the kickstand is fully retracted.
 - 4.A protective helmet must be worn while riding this electric scooter.
- Please follow local traffic laws. Road access for electric scooters may vary by region, and it is your responsibility to know and comply with the applicable laws in your area.

8. Display Overview



Display functions:

1. Speed

Speed Area:



2. Battery Indicator

Power Level Status:



8、Display Overview

3. Total Mileage:

Single Round Mileage TRIP; Total Mileage ODO, (Unit: mile; km)

:

  mile

  mile

4.Gears:

Gear indicator:



9, Maintenance & Care

Vehicle Status Code Meanings

Status Code	Status Meaning / Fault Description	Status Code	Status Meaning / Fault Description
E01	Motor failure	E05	Throttle lever malfunction
E03	Brake failure	E09	Communication Timeout (The meter has not received data from the controller for over 10 seconds)
E04	Controller failure		

Battery

Only use the original battery provided with the scooter.

If the battery stops working or shows any abnormal behavior, replace it immediately with a factory-recommended battery specified for this electric scooter.

Battery Charger

Only use the original charger provided with the scooter.

If the charger malfunctions, replace it immediately with a factory-recommended charger specified for this electric scooter.

Wheels

The wheels and drivetrain components are considered normal wear items and will gradually wear or age over time.

Users are responsible for regularly checking the wheels for excessive wear and adjusting or replacing drivetrain components as needed.

Replacement Parts

Common replacement parts can be purchased through our authorized dealers or distributors.

10, Troubleshooting

Problem	Possible Cause	Solution
Motorcycle won't start or run	1. Battery is not fully charged. 2. Wires or connections are loose or making poor contact.	1. Fully charge the battery. The initial charge should take 12 hours; subsequent charges can be limited to 8-9 hours. 2. Check that all cables are securely connected to the controller.
Motorcycle won't start or runs for a short time	1. Battery needs charging. 2. Battery will not hold a full charge. 3. Low rear tire pressure. 3. Low rear tire pressure.	1. Fully charge the battery. Initial charge: 12 hours; maximum subsequent charge time: 8-9 hours. 2. Ensure the power source is working and the plug is secure. If the battery still won't charge, it may need to be replaced. (Rechargeable batteries have a limited lifespan, typically 1-2 years). 3. Check for correct tire installation; inflate to the proper pressure before riding.
Motorcycle runs poorly with very short range	1. Battery needs charging. 2. Battery will not hold a full charge. 3. Low rear tire pressure. 4. Prolonged high-speed riding. 5. Frequent uphill riding, headwinds, frequent braking, or overloading.	1. Fully charge the battery (12 hours for the first time, 8-9 hours thereafter). 2. Ensure power connections are secure. If the battery won't charge, replace it. (Battery lifespan varies by usage, typically 1-2 years). 3. Check tire installation and inflate if pressure is low. 4. Try to maintain a moderate speed. 5. Avoid frequent braking/starting and do not overload the bike.

10. Troubleshooting

Problem	Possible Cause	Solution
Vehicle drives slowly	1. Brakes are not adjusted correctly. 2. Frequent uphill riding, headwinds, heavy braking, or heavy loads. 3. Motorcycle is overloaded. 4. Rear tire is not properly inflated.	1. Adjust brake tension properly so the brakes respond correctly without dragging. 2. Do not exceed the maximum load of 80 kg (approx. 176 lbs) when riding. 3. Do not exceed the maximum load of 80 kg. 4. Check tire pressure and inflate before riding if low.
Abnormal noise during operation	1. Chain is dry. 2. Motorcycle is overloaded.	1. Lubricate the chain. 2. Do not exceed the maximum load of 80 kg (approx. 176 lbs) when riding.

Note

Motorcycle's major components, such as battery cells, motors, chargers, and controllers, are labeled before delivery. Please note that major parts without labels are not covered by the warranty.

11. Warranty

The following situations are NOT covered under free after-sales service:

1. Consumable and wear-and-tear parts are not covered under warranty, including but not limited to: tires, wiring harnesses, complete brake systems, plastic components, brake cables and housings, etc.
2. Components that have exceeded the warranty period.
3. Damage caused by the user's failure to follow the instructions in this manual.
4. Damage or quality issues resulting from accidental impacts, collisions, or exposure to corrosive substances.
5. Cases where the purchase invoice does not match the information on the warranty card.
6. Damage to parts caused by unauthorized disassembly or modifications, or situations where unauthorized disassembly or modification has altered the original fault, making technical evaluation or analysis impossible.
7. Once the vehicle is scrapped, any cosmetic issues cannot be used as a basis for replacement or warranty. Please carefully inspect the vehicle's appearance at the time of purchase and confirm that the surface quality is acceptable.
8. Damage caused by modifications that were not approved in advance by our company or our authorized sales and service centers.

Warranty Period for Major Components of the Electric Scooter:

Component Name	Warranty Period	Exceptions / Conditions	Notes
Frame Structure	12 Months	Damage caused by severe human impact or collision.	Replacement parts outside the warranty period are charged at cost price.
Lithium-ion Battery	12 Months	To reduce battery degradation, avoid charging at low temperatures. Reference for available capacity at different temperatures: • 14° F (approx. -10° C): ~70% capacity • 32° F (approx. 0° C): ~80% capacity • 70° F (approx. 21° C): ~90-95% capacity Warranty replacement is provided if the battery voltage is abnormal, it cannot charge, and a discharge meter detects capacity lower than 70% of the available capacity.	Replacement parts outside the warranty period are charged at cost price.

11. Warranty

Component Name	Warranty Period	Exceptions / Conditions	Notes
Controller	12 Months	Performance failure or quality issues caused by the product itself that cannot be repaired.	Replacement parts outside the warranty period are charged at cost price.
Motor	12 Months	Coil burnout: Damage to the hub caused by demagnetization, short circuit, open circuit, abnormal noise, material damage, deformation, fracture, etc.	Replacement parts outside the warranty period are charged at cost price.
Dashboard (Display)	6 Months	Performance failure or quality issues.	Replacement parts outside the warranty period are charged at cost price.
Brake levers, Disc brakes, Throttle, Brake system, Plastic parts, Tires, LED lights, Fenders, Chain, Inner tubes, Screws, Bearings, Shock absorbers, and other consumable parts	Consumable/wearable parts are not covered by the warranty.		Replacement parts outside the warranty period are charged at cost price.

The manufacturer warrants that this product will be free from defects in materials and workmanship for 90 days from the date of purchase under normal use.

This limited warranty does not cover: normal wear and tear; consumable parts such as tires and cables; or any damage, malfunction, or loss caused by improper assembly, maintenance, storage, or use of this electric motorcycle.

We do not offer extended warranty services.

Any unauthorized modification will immediately void this limited warranty.

The manufacturer shall not be liable for any incidental or consequential losses or damages arising directly or indirectly from the use of this product.

This limited warranty will automatically become void if the product is used for any purpose other than recreation or transportation.

12. Contact Us

If you encounter any issues related to riding, maintenance, or safety, or if your vehicle experiences a malfunction or error, please contact us:

Support Email: question@skycoresport.com

To watch the installation video and fill in the product warranty information, please scan the QR code.

