



WUXI HIO SPECIAL VEHICLE CO.,LTD.

All-terrain Scooter

Owner's Manual



Please read this manual carefully before using this product. Do not use this product without understanding its characteristics, Please keep this manual properly.

Introduction

Thank you for your purchase of a ATS series electric scooter. Prior to operation, please thoroughly read this Owner's Manual. Please note that some items are optional accessories and may not be installed on your vehicle from the factory.

This manual includes important safety and maintenance information that is crucial to ensure the safe operation of your vehicle. Most maintenance can be performed with common automotive hand tools; otherwise, contact your nearest dealer/service provider.

Vehicle warranty information is appended to this manual. For warranty service, please contact your original dealer or another local authorized HiOEV dealer. Dealers can be located using the HiOEV website.

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Catalogue

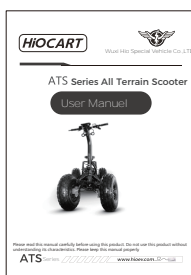
01	Introduction	P01
02	Catalogue	P02
03	User Precautions	P03
04	Product Accessories	P03
05	Schematic Diagram Of The Whole Vehicle Structure	P04
06	Control Panel Display And Operation	P05
07	Main Technical Parameters	P06
08	Battery Charging Instructions	P07
09	Riding Precautions	P08
10	Regular Maintenance Instructions	P11
11	Common Faults And Troubleshooting Methods	P12

User Precautions

1. Please read the "User Manual" carefully before riding, and check whether the parts are intact to ensure your riding safety, please contact the distributor in time if you find any problem.
2. Please wear helmets and protective gear, do not drive on motorways or highways. Please do not over-speed or engage in any other behaviors that could affect safe driving..
3. Please slow down when in rainy, snowy or wet and slippery days, braking should be predicted in advance and braking distance shall be appropriately increased to ensure safety.
4. Please do not disassemble this product by yourself. Please contact the local distributor's after-sales service department if you need to replace the parts.
5. For others' safety, please avoid lending your electric scooter to others.

Product Accessories

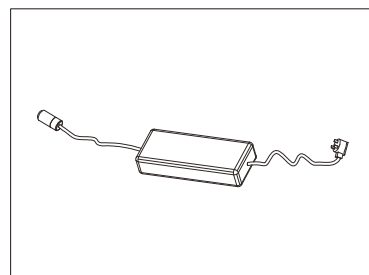
User Manual



Scooter Accessories



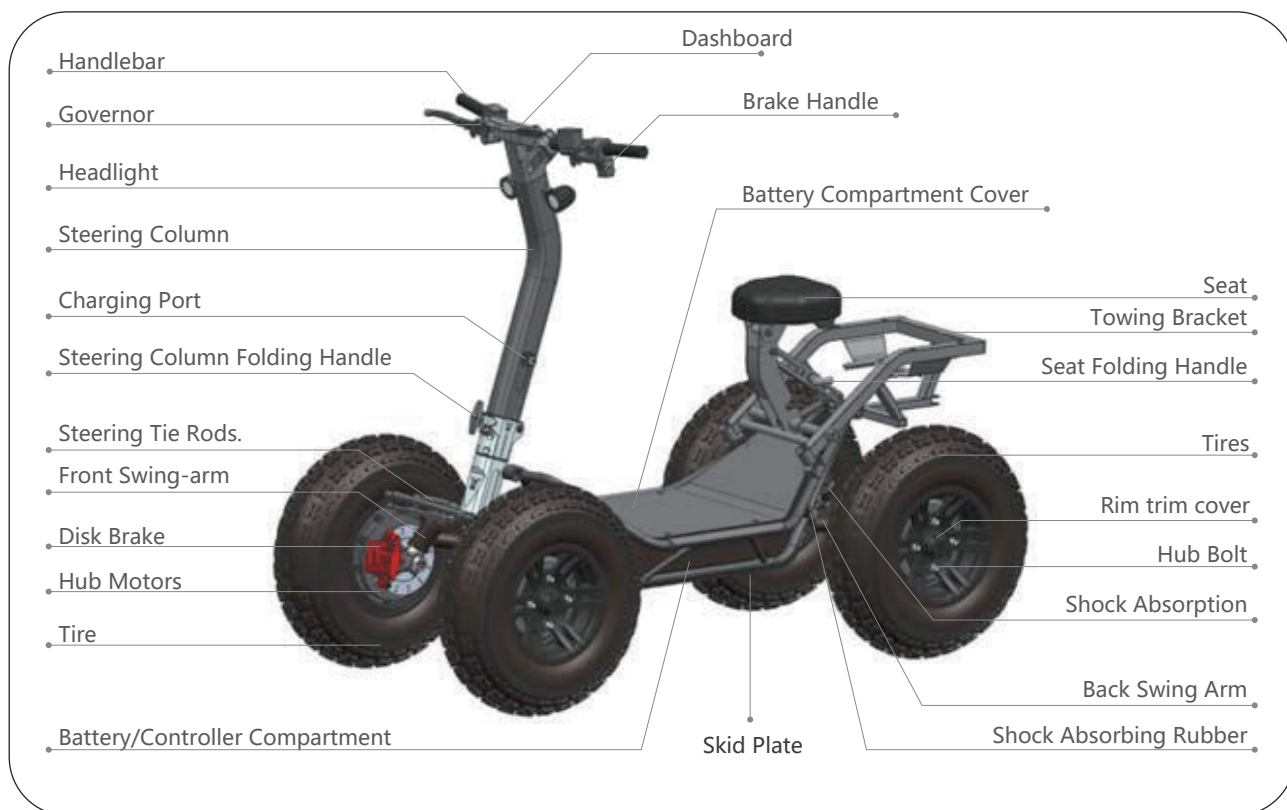
Battery Charger



Please make sure that the above accessories are complete when unpacking the scooter, and contact an authorized service station in your area if they are missing or damaged. You can assemble your scooter after confirming that all the accessories are intact.

Please keep the packing materials in case you need to transport your scooter in the future.

Schematic Diagram Of The Whole Vehicle Structure



Control Panel Display And Operation

DISPLAY

1.Power Display: Real-time display of remaining battery power;

2.Speed Display: Displays real-time speed;

3.NFC Display: Display NFC signal;

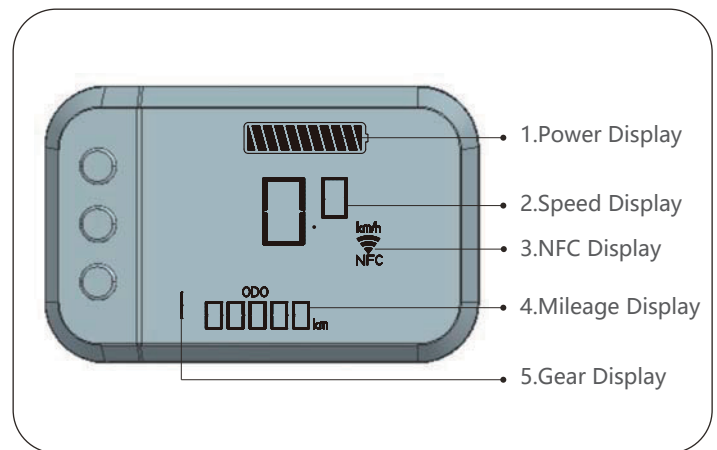
4.Mileage Display: Display total mileage; Mileage/time per ride;

5.Speed Gear Display:

1st gear/maximum speed 30km/h;

2nd gear/maximum speed 37km/h;

3rd gear/maximum speed 45km/h



OPERATION

1.Power on: Clockwise rotation of the power switch, the car powers on, the dashboard is lighted, at the same time issued a "beep" sound;

NFC operation: Put the NFC card close to the instrument, when the vehicle power is connected, the instrument is lit up, and makes a "beep" sound;

2.Shutdown: Counterclockwise rotation of the power switch, the dashboard goes off and the power supply of the whole vehicle is disconnected;

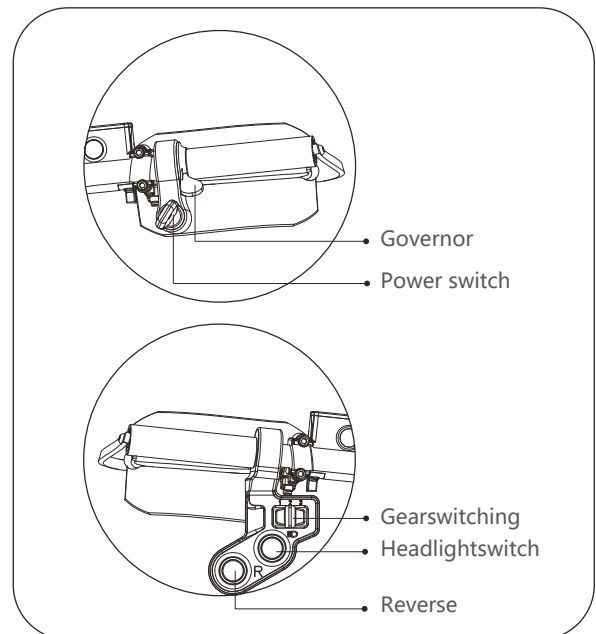
NFC operation: Put the NFC card close to the instrument again, dashboard goes off and power disconnected.

3.Governor: press the governor lightly, the vehicle gets started, continue to press the governor, the vehicle speed gradually increases;

4.Gear switching: Switch among 1/2/3 gears according to riding requirements;

5.Headlight switch: press the headlight switch, at this time the headlight power on, while the headlight on, press the headlight switch again, then headlight is disconnected, while the headlight off;

6.Reverse: By pressing the reverse button and not releasing it, and at the same time pressing the governor, the vehicle starts to travel backwards.



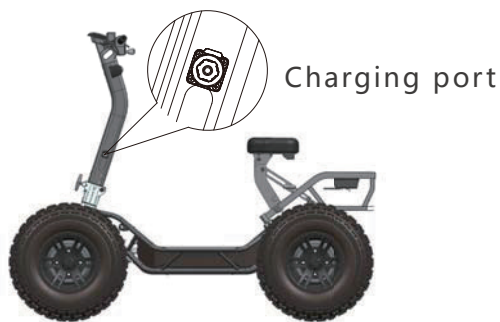
Main Technical Parameters

Name Of Parameter	Technical Parameters		
	ATS-L2	ATS-H2	ATS-H4
Overall Dimensions(cm)	162x76x130	171x80x135	171x80x135
Folding Height(cm)	67	71	71
Net Weight(kg)	110	120	130
Carrying Capacity(kg)	170	170	200
Ground Clearance(cm)	19	23	23
Approach angle	90°	90°	90°
Departure angle	90°	90°	90°
Tire Specification	19x6-10	22x7-10	22x7-10
Brake	four-wheel hydraulic disc brakes	four-wheel hydraulic disc brakes	four-wheel hydraulic disc brakes
Maximum Speed(km/h)	35	40	45
Endurance Mileage(km)	40	90	80
Battery Voltage(V)	60	60	60
Battery Power(kW·h)	1.8	2.7	2.7
Motor Class	Wheel Hub (Rear-Wheel Drive)	Wheel Hub (Rear-Wheel Drive)	Wheel Hub (Four-Wheel Drive)
Number of Motors	2	2	4
Motor Power(kW)	1.2	1.2	1.2
Suspension Stroke(cm)	50	56	56

Battery Charging Instructions

ABOUT CHARGING

Step1: Open the charging port cover



Step2: Connect the charger



(1).When the input of the charger is connected, the red indicator light on the charger will turn on to indicate that charging has begun. When the green light turns on, it indicates that charging is finished.

(2).Standard charging time: Charge according to the time specified by the special matching charger.

(3).For summer charging, the charging time should be around 3-6 hours. If the temperature of the battery exceeds 40 °C, charging should be suspended, and then continue charging after the temperature declines. For winter charging, if after long time driving, it shall wait one hour then start to charge battery, the charging time should be around 4-8 hours.

(4).This charger has over-current protection and automatic power-off device when charging is completed, please disconnect the charger in time when charging is completed.

CHARGING PRECAUTIONS

(1).Please keep it in a safe place out of children's reach when charging.

(2).Please do not use other brands of chargers to charge, other types of batteries should not use this charger, the charger contains high-voltage circuits, please do not disassemble.

(3).Prevent liquid and metal particles from penetrating into the charger when using and storing it, and protect it from drops and impacts to avoid damage.

(4).Do not cover the charger with anything while it is charging.

(5).Please use it in a dry and well-ventilated environment. Please stop charging immediately and send it to the distributor for repair when you smell a strange odor or the temperature is too high during charging.

Riding Precautions

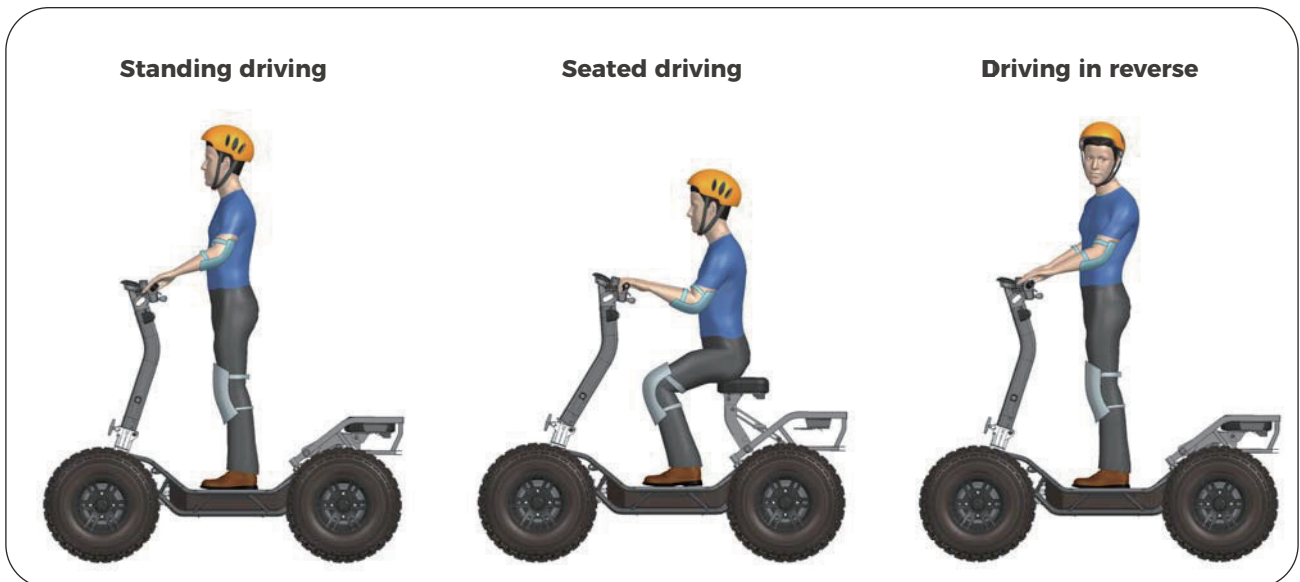
ABOUT PRE-RIDE INSPECTION

- (1).Whether the tire pressure is normal and whether the front and rear braking are effective;
- (2).Battery power should be sufficient, can not drive in a state of loss of power, so as not to damage the battery;
- (3).The T-shaped handle should make the upper and lower part of the column connection seat locked before riding.

ABOUT RIDING SAFETY REQUIREMENTS

To ensure your safety, wear protective gear (knee pads, elbow pads, helmet) before riding.

DRIVING POSTURE



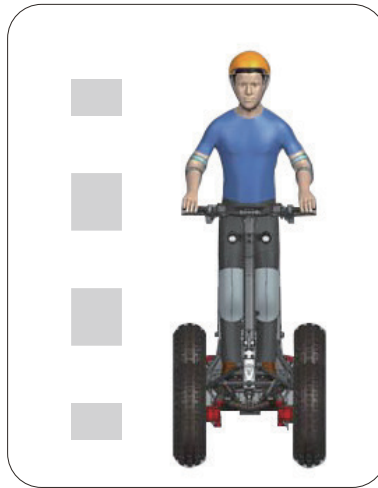
Riding Precautions (CONT' D)

SAFETY WARNING

1. Do not take one or both hands off the handlebars while riding.



2. Please don't enter motorways or highways.

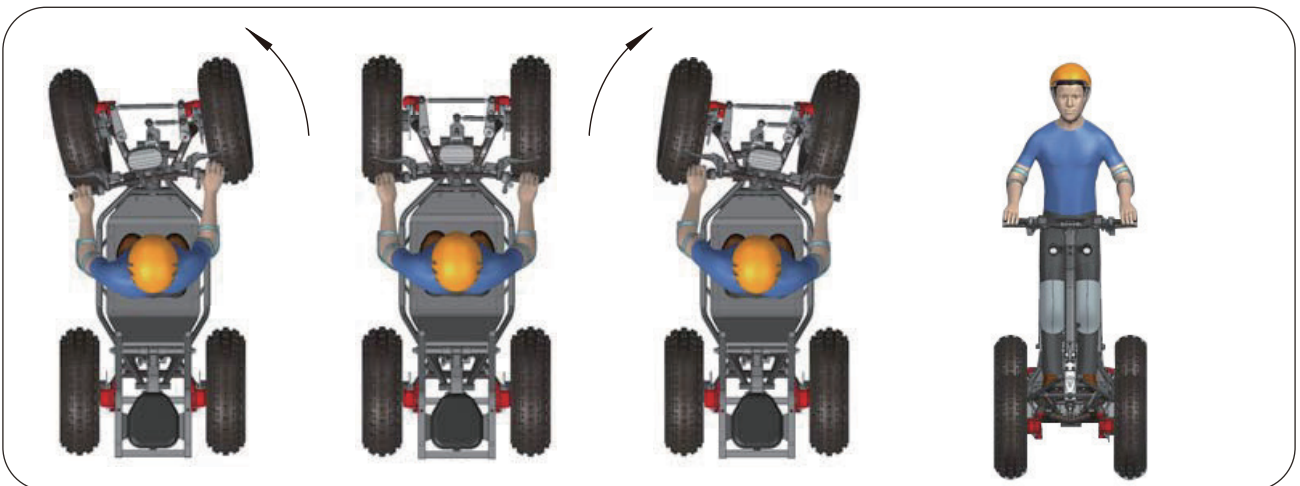


3. Please don't use mobile phones or headphones while driving.



4. Sharp turns are prohibited at high speeds

5. Please pay attention to high obstacles to avoid injury.



Riding Precautions (CONT' D)

HOW TO START THE SCOOTER

- (1).Insert the electric door key into the power switch on the right switch and turn it right to ON. At this time, the instrument light is on, indicating that the power is turned on.
- (2).Slowly press the governor inward (counterclockwise) and the scooter begins to move slowly. The rotation Angle of the governor goes from small to large, and the speed goes from slow to fast.
- (3).It is forbidden to turn on the maximum switch instantly when the scooter is at rest to prevent injury from falling.
- (4).When reversing, press and hold the reverse gear button with your left thumb (without releasing it), squint your eyes at the obstacle behind you, and slowly accelerate the gas until you get to the predetermined target position, release the reverse gear button.

PRECAUTIONS ON THE WAY

- (1).When the scooter is just started, it should be slowly accelerated to avoid excessive waste of electric energy caused by instantaneous rapid acceleration of the starting current, while extending the life of the battery and the motor.
- (2).Under the premise of ensuring safety, economic speed driving would be more recommended, and minimize frequent braking,frequent startup, in order to save electrical energy.
- (3).It should be avoided to press and hold the governor after braking, so as to avoid motor overload and damage to other parts.
- (4).The controller of this scooter is equipped with overload protection function, the power supply will be cut off automatically when overloaded, and the power supply will be connected automatically when it returns to normal.
- (5).The maximum load capacity of the bike is 200Kg (including the weight of therider),please do not overload the scooter.

SCOOTER FOLDING



Step1:

counterclockwise rotate the seat
fold the seat bracket



Step2:

counterclockwise rotate steering
column
Fold the steering column handle



Regular Maintenance Instructions

For your driving safety, and to keep your scooter in the best condition, please carry out regular maintenance and cleaning.

REGULAR MAINTENANCE SELF-INSPECTION CONTENT

- (1). Front and rear wheel nuts should be locked.
- (2). Whether the tread pattern of the outer tires is worn and cracked, tire needs to be replaced when the height of the tire tread is lower than 1.6mm. Front and rear tire pressure should be appropriate, normal tire pressure between 230kpa-250kpa, the highest tire pressure should not be greater than 350kpa.
- (3). Smoothness of the drive system.
- (4). All parts of the joints should be normal, brake fluid should be between the upper and lower marking line.

MAINTENANCE AND CLEANING INSTRUCTIONS

- (1). It is prohibited to flush the steering wheel and instruments with high-pressure water, so as to prevent the internal electronic parts and wiring from getting wet and causing potential accidents.
- (2). Please use a neutral cleaner and gently wipe the surface of the paint or plastic parts with a rag, then wipe with a dry rag.

ABOUT BATTERY MAINTENANCE

- (1). The battery should be charged in time on the same day after a certain distance of normal driving every day, otherwise the service life will be reduced.
- (2). Please pay attention to do regular charging if you don't use the scooter for a long time, under normal circumstances, a fully charged battery will run out of its stored power after about 120-180 days of standby, remember to charge the battery after each use. A fully depleted battery may cause permanent damage to the battery. An electronic device inside the battery monitors the charge/discharge of the battery. Damage caused by overcharging or overdischarging is not covered by the limited warranty.
- (3). Battery Knowledge: It is normal for the capacity of the battery to decrease slowly during use.

Common Faults And Troubleshooting Methods

Fault phenomenon	Fault judgment	Fault resolution
Dashboard doesn't light up, motor doesn't work	Battery in undervoltage condition	Wait for 15 seconds to charge
	Battery in short-circuit protection	Wait 15 seconds and re-power up
	The power lock is broken	Replacing of power lock
High-speed motor operation cannot be controlled	Main harness/controller not working properly	Replacing the controller
The motor runs and stops abnormally	Battery plug contact is abnormal	Inspection and restoration
Short driving range after a full battery charge	Battery life ends	Replacing battery
	Battery voltage mismatch	Battery maintenance or replacing the battery
Battery won't charge or is undercharged	Battery life ends	Replacing battery
	No output from charger	Replacing the charger
	Charger has abnormal contact with the charging socket	Replacing the charging socket
Headlight doesn't light up	Headlights / headlight switch damaged	Replacing headlights/headlights switch



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