

Ride-on Sweeper Instructions



Brief introduction

Purpose and content of the manual

The purpose of this manual is to provide the operator with all the information necessary for the correct, safe and autonomous use of equipment. It contains technical data, safety, operation, storage, maintenance, spare parts and scrap information. Before performing any operation on the equipment, operators and qualified technicians must read this manual carefully. If you have any questions about the interpretation of this instruction manual or need further information, please contact the manufacturer.

The target

This manual is intended to assist qualified operators and technicians in maintaining machines.

Operators are not allowed to perform operations that should be performed by qualified technicians.

How do I save this manual

The user manual must be kept around the machine, in a suitable box, away from liquids or other substances that could cause damage to the manual.

This information helps in finding the required parts. Write down the machine identification data using the following table.

Machine model:
Machine Serial number:

Other Reference Manuals

Other accompanying manuals:

A manual for electronic battery chargers, if equipped, shall be regarded as an integral part of the manual

- Spare parts list of the sweeper

Spare parts and maintenance

All necessary operation, maintenance and overhaul procedures shall be carried out by qualified personnel or the factory service centre.

Original spare parts and accessories must be used.

If the manufacturer is required to provide maintenance services or order spare parts and accessories from the manufacturer, the equipment model and serial number must be specified in detail.

Changes and improvements

The manufacturer keeps updating and upgrading the products and reserves the right to change and improve the products independently, and has no obligation to update and upgrade the sold machines.

Modification and/or addition of parts must be approved by the manufacturer.

Operating performance

Sweepers are designed and manufactured to clean/sweep flat and solid surfaces in human and industrial environments, removing dust and fine refuse, through the safe operation of qualified operators.

conventional

Forward, backward, forward, rear, left, or right are all relative to the perspective of the operator, that is, the driver's seat.

delivery

Check package and machine for damage in transit when delivery. If any damage is visible, keep the package in good condition and submit to carrier for inspection. Contact carrier immediately to raise concerns.

Check the following features of the device:

- Technical documents:
- Sweeper user manual

security

The following symbols indicate potentially dangerous conditions. Read this information carefully and take necessary protective measures to protect personnel and property.

The key to preventing damage is the cooperation of the operator. No accident prevention plan is effective without the cooperation of the person responsible for operating the machine. Most accidents at work or activity in a factory are the result of operators failing to carefully follow the simplest rules. Careful and considerate operators are the best safeguard against accidents and are critical to the successful implementation of prevention plans.

symbol



Danger! This symbol indicates a hazard that may result in the death of an operator.



Warning! This symbol indicates a potential hazard of personal injury or damage.



Be careful! This symbol alerts caution or attention to important or useful features. Pay attention to the paragraph marked with this symbol.



Attention! This symbol indicates attention to important or useful functions.



Consultation! This symbol indicates that you must refer to the user manual before performing any steps.

General instructions

Detailed warnings or warnings for personal injury and machine damage are provided below.



Dangerous!

- Before performing maintenance, repair, cleaning or replacement procedures, disconnect the battery connector, pull out the ignition switch and stop and brake.

- The machine is for trained operators only.Children or people with disabilities are not allowed to use the machine.
 - Batteries must be kept away from sparks, flames and hotter materials.Explosive gases are released during normal operation.
 - Do not wear jewelry when working around electrical components.
 - Do not work under the machine when it is lifted and there is no safety frame.
 - If working under an open cover, make sure it does not close accidentally.
 - Do not operate the machine near toxic, harmful, flammable and/or explosive powder, liquid or gas.
 - Machine not suitable for cleaning hazardous powder.
 - If the device is equipped with lead (wet) batteries, large amounts of explosive hydrogen are produced when the batteries are charged.Therefore, charge in a well-ventilated place, open the boot cover, away from an open flame.
 - When the lead (wet) battery is installed on this machine, do not tilt it beyond its horizontal position by 30 ° to prevent highly corrosive acid from leaking from the battery.Must tilt
- When the machine comes to perform the repair procedure, remove the battery first.



Warning!

- Read all instructions carefully before performing any maintenance/repair procedures.
 - Take all necessary precautions to prevent hair, jewelry or loose clothing from getting caught in parts of the machine running.
 - If the machine is equipped with a lead battery (wet), do not smoke while charging.
 - Before using the battery charger, ensure that the power supply voltage is consistent with the frequency and voltage values shown on the machine serial number plate.
 - Do not pull or transport the machine by pulling the battery charger cable, and do not use the battery charger cable as a handle.Do not turn off the battery to recharge
- The appliance connects the cord on the door, or pulls the battery charger cord around the sharp edge or around the corner.Do not run the machine on the battery charger cable.Keep the battery
- Keep charger cable away from heat conduction surface.
- Do not charge the battery charger when the cable or plug is damaged.
 - To reduce the risk of fire, electric shock or injury, do not switch on power unattended.Disconnect the battery charger cable from the battery charger before performing equipment maintenance
- The main power supply.
- To avoid unauthorized use of the machine, please remove the startup key.
 - Do not leave the machine unattended until it is certain that it cannot move autonomously.
 - Do not use the machine on slopes that exceed the specified Angle.
- Close all doors or covers before using this machine.
 - Do not use this machine in dusty conditions.
 - Do not use high pressure jet water or water flow directly to clean the machine, do not use corrosive substances to clean the machine.
 - Do not use compressed air to clean this type of machine, except for the filter element of the filter.
 - When using this machine, please be careful not to cause damage to other people, especially children.
 - Do not place containers of liquid on the machine.
 - The storage temperature of the machine must be in the range of 32 ° F to 104 ° F (0 ° C to + 40 ° C).

- The operating temperature of the machine must be in the range of 32 ° F to 104 ° F (0 ° C to + 40 ° C).
- Humidity must be between 30% and 95%.
- Protect the equipment from sun, rain and other bad weather, whether in working or not. Store the machine in a dry room. The machine must be used for drying
 - Should not be stored outdoors or used in wet weather.
- Do not use the machine as a vehicle or a push/pull tool.
- In case of fire, use dry powder fire extinguisher instead of water whenever possible.
- Do not run into shelves or scaffolding, especially where there is a risk of falling objects.
- Adjust the working speed according to the road condition.
- Do not damage the machine safety protection device.
- Strictly follow daily maintenance procedures.
- Do not remove or modify the nameplate attached to the machine.
- In case of machine failure, first eliminate the cause of lack of maintenance, and then seek help from authorized personnel or authorized service center.
 - If parts must be replaced, order the original parts from an authorized dealer or retailer.
 - To ensure the normal and safe operation of the machine, regular maintenance procedures must be carried out by authorized personnel or authorized service centers in accordance with the relevant chapters of this manual.
 - The disposal of the machine must be properly disposed of, as the toxic and hazardous materials (batteries, oil, etc.) of the machine must be disposed of in a specified centre according to regulations.



Control panel : Power (FIG. 1 Turning to the "off" position, the machine shuts off and stops all functions;

Figure 1

Switch on power when turning "on"; Turn one gear clockwise again, the headlight switch is turned on, and the front two headlights are on.

Horn switch (Figure 1 press the horn switch, the horn sound; Release the switch and cancel the horn.)

Mode switch (FIG. 1), when the work button is turned on, the main brush, side brush, fan, etc
The components are ready to move forward and sweep.

The work button must be closed before pressing the dust button, otherwise it will be invalid, and the dust device will be



Figure 2

controlled when it is effective.

The electric quantity display instrument (FIG. 1) and the turn signal light show that the electric quantity display instrument records the electric quantity of the power supply. When the power supply is turned on, when there are less than 4 red wires, it means that the battery needs to be charged when the electric quantity is low.

When the sprinkler button (FIG. 2) is opened, the water pump is started. If the sprinkler valve (below the water tank) is opened, the water can be sprayed.

As shown in the figure on the right (Figure 2), there is a leather pedal on the left, a brake pedal in the middle and an acceleration pedal on the right



Figure 3

Gear (FIG. 2) is attached to D gear, i.e. forward gear. Step on the accelerator and the car moves forward.

Hang into N gear, namely neutral gear is also called stop gear, step on the accelerator does not work;

Gear into R, hit the accelerator, car back up.

The figure on the right (Figure 3) is the water tank inlet. Unscrew the outer hexagonal cover and inject clean water (optional).

Figure 4 shows the rear axle drive. If the chain is loose after a long time of use, pass Tighten the chain as follows: first loosen screws A and B, and then tighten screws C Screw up, then the chain is gradually tightened, and fix the nut of screw C after reaching the appropriate position. Finally, fix screws A and B respectively.

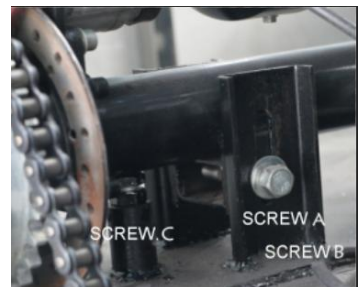


Figure 4.

As shown in FIG. 5, loosen the tensioner to pull out the dustbin for garbage disposal. While recharging the sweeper, Please connect the power supply to the charging socket. To clean the filter barrel, open the seat, tilt back, loosen the bakelwood nut around the dust motor, You can pull out the filter bucket.



Figure 5.

Technical parameters

Technical specifications	unit	S-1250
Cleaning the width	mm	1150
The work efficiency	m ² /H	6600
Maximum climbing ability	%	20
The length of the brush	mm	500
The side brush diameter	mm	500
Maximum operating speed	Km/h	6
Drive motor	W	750
The main motor	W	600
Dust collection machine	W	300
Working time	H	2.5 4 h
Dustbin capacity	L	70
Water tank capacity	L	60
Filter area	m ²	4.2
The equipment size	mm	1450 * 1150 * 1350
The battery	V/Ah	48V/52Ah
The battery weight	kg	80
Equipment weight	kg	240
Cleaning the width	mm	1150
The work efficiency	m ² /H	6600
Maximum climbing ability	%	20
The length of the brush	mm	500

Battery check/new machine setup



Warning!

If the machine needs to be pushed for the purpose of service (lack of battery, power depletion, etc.), the speed should not exceed 4 km/h. It is also forbidden to promote it for a long time.



Warning!

Sulfuric acid is a corrosive liquid. Be careful when using it. If there is contact with skin or eyes, rinse thoroughly with water and consult a physician. Batteries must be filled in a well-ventilated area. Wear protective gloves.

6. Fill the battery when it is not in use according to the instructions in the battery manual.

C) Replace the battery

7. Purchase applicable batteries (see technical data section).

For battery selection and installation, please contact a qualified battery retailer.

8. Install the battery.

9. Set up the machine and battery charger (if equipped) according to the type of battery installed as shown in the next paragraph.

Before machine startup



Attention!

Please ensure that all doors/hoods are closed and the machine is in normal operating conditions.

Please make sure the bin is closed properly.



Warning!

If the machine has never been used after shipment, check that all fixtures used for shipment have been removed.

Start and stop the machine

Start the machine

1. Get in the driver's seat;
2. Check the surrounding environment
3. Turn the key to the "on" position and do not press the accelerator pedal. Check whether the power display lamp is sufficient;
If the number of red wires is less than 4, turn the key to the "OFF" position, and then charge the battery (see the instructions of the charger for details);
4. Ensure sufficient power;
5. Mount the gear into the forward gear;
6. Keep hands on the steering wheel, hang forward or backward gear according to actual needs, and reach the working area;
The driving speed can be controlled by stepping on the pedal pressure, the greater the pressure, the faster the speed, until reaching the upper limit of speed;



Attention!

When the power key is turned to the "ON" position, the warning light flashes automatically.

7. Press the position of the work button to operate the main brush and the left and right side brushes;
8. Turn the steering wheel and press the pedal to move the machine forward and start cleaning. If the cleaning garbage is too large, you can press the left leather pedal.
Release quickly.

Stop the machine

9. To stop the machine, release the accelerator pedal;
If you want to stop the machine quickly, step on the brake pedal at the same time;
10. Press and hold the dust switch, and the dust will be turned off for 1 minute and returned to its original position;
11. Set the power key switch to the "off" position;
12. Press the brake pedal and stop the car.

Machine operation



Attention!

Please note when operating the machine at high speed: due to the different weight distribution, sudden steering may cause instability of the three-wheel machine.

You must slow down before turning.



Warning!

If operating on wet ground, the dust vacuum system must be turned off to prevent damage to the dust filter.

1. Avoid stopping the machine in the same position for a long time when the broom is moving: it may cause scratches on the floor.
2. If you want to collect light and large debris, step on the skin pedal to achieve the rapid lifting of the front baffle; When the front baffle is raised, the vacuuming capacity of the machine will be reduced.
3. In order for the machine to run normally, the dust filter must be kept clean as far as possible. Filter vibration is controlled by time relay.

During this operation, the vacuum fan shuts off automatically. After cleaning the filter, automatically restart the vacuum system; Then start cleaning again.



Attention!

When the dust filter is blocked and/or the bin is full, the machine will no longer be able to collect dust and debris.

4. At the end of each work cycle or when the garbage reaches 50%, the garbage bin must be emptied in time (see step in the next paragraph).
5. Do not clean ropes.

Bin emptying

1. Release the accelerator pedal to stop the machine;
2. Close the work button;
3. Turn the power key to "off" position;
4. Parking brake;
5. Pull the end of the fixed hook to untie;
6. Pull the handle to unload the dustbin;
7. Pour all sundries into designated containers.
8. Install the dustbin and fix it to the hook;
9. The machine can start cleaning again.

After using the machine

After work, before leaving the machine, execute the following procedure.

1. Close the working switch and lift the main brush and side brush;
2. Press and hold the dust switch for one minute to turn on the filter vibration;
3. Empty the dustbin (see steps in the previous paragraph);
4. Remove the power key.
5. Parking brake.

Push/pull the machine

Long distance pushing and pulling machines are prohibited.

Not using machines for a long time

If you do not use the machine for more than 30 days, please do as follows:

1. Check whether the storage area is dry and clean.
2. Disconnect the battery cable. Recharge the battery every month.

Use stage 1

Do the following after the first 8 hours:

- Check whether fasteners and connectors need to be tightened properly.
- Check whether the visible part is intact and whether there is leakage.

maintenance

Proper regular maintenance ensures maximum safe service life of the machine. The daily care of the sweeper is essential. It is necessary to cover the clothes when parking the vehicle in the open air to prevent the damage caused by the weather to the vehicle.



Warning!

To perform maintenance procedures, the machine must be turned off, the key removed, and the battery disconnected if necessary.

Read the instructions in the Safety chapter carefully before performing any maintenance.

Main broom height inspection and adjustment



Attention!

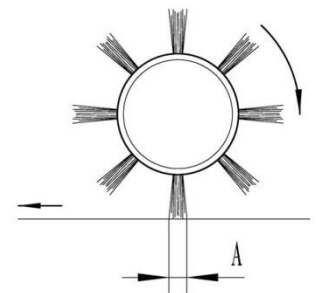
The main brush can be a harder or softer brush.

The program works with all types of master brushes.

1. Check the distance between the master brush and the floor, as shown below:
 - Drive the machine to level ground.
 - Keep the machine stationary, put down the main brush and turn it on for a few seconds.
 - Put down the main brush, then run the machine and shut it down.
 - Check the main broom sweep mark (A, FIG. 6), which is 2 to 4 cm wide along its length.
2. Press the brake pedal and stop the car.
3. Turn the power key to "off".
4. Open the left door, lock the inside of the side door with your fingers, and pull the side door outward. To close the side door, pull the side door close to the magnet

Distance, the side door will automatically adsorb, complete the operation of closing the side door, the right door opening and closing method is the same.

5. Adjust bolt B to limit the adjustment height of the main brush (FIG. 7).
 - To raise broom A, raise bolt B;
 - To lower broom A, raise bolt B to its proper position and tighten the nut at B after adjusting.
6. Repeat Step 1 again to check the height of the main broom and adjust it properly.
7. When the broom is too worn to be adjusted, replace it as shown in the next paragraph.



2 - 4 cm

Figure 6.

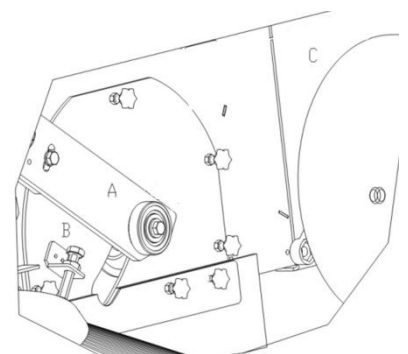


Figure 7.



Attention!

The normal operation of the machine will be affected if the trail of the main broom is 4 cm too large. It can lead to overheating of moving parts or electrical components, thus reducing the service life of the machine. Please perform the above checks carefully and always use the machine under specified conditions.

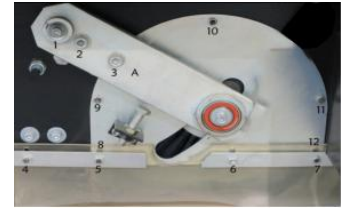


Figure 8.

Brush replacement



Attention!

A harder or softer brush is available.

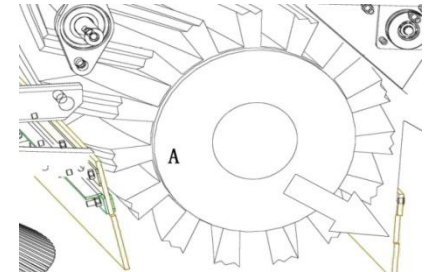


Figure 9.



Warning!

The program works with all types of brooms.

It is recommended to wear protective gloves when replacing the main broom, as the brush can have sharp shards.

1. Drive the machine to the level ground, press the brake pedal, and stop the car.
2. Confirm that the working button is disabled.
3. Turn the power key to "off".
4. Open the left door (9)
5. Unscrew no. 1, 2 and 3 inner hexagon screws and pull out fitting A.
6. Unscrew nuts no. 4, 5, 6 and 7 and pull out the side leather.
7. Unscrew nuts no. 8, 9, 10, 11 and 12 and pull out the semicircle plate.
8. Remove Broom A.
9. Check that there is no dirt or foreign matter (rope, rag, etc.) accidentally rolled up in the driving wheel hub.

Check the cleaning condition of the main brush arc plate, remove any dirt and sundries.

10. The curls of the new main broom must be bent as shown in Figure 10.
 11. Install the new main broom (C, FIG. 10) and ensure mesh (D) and associated drive hub (A).
 12. Install the semicircle plate in reverse order as shown in Step 5 to 8.
- Close the door on the left.
14. Check and adjust the height of the main broom as shown in the previous paragraph.

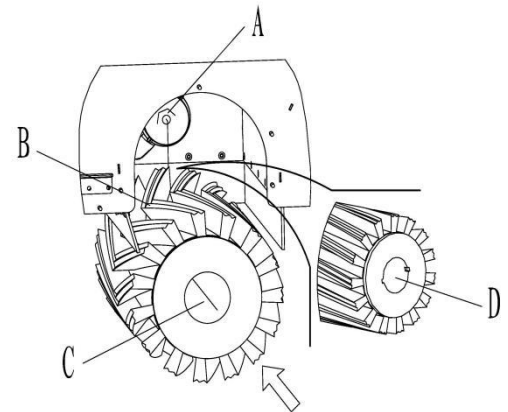


Figure 10.

Side broom height inspection and adjustment



Attention!

A harder or softer brush is available.

The program works with all types of brooms.

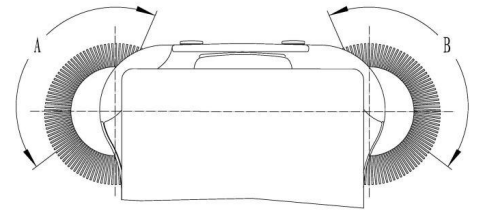


Figure 11.

1. Perform the following steps to check the distance between the broom and the ground:

- Drive machine to level ground and lower side broom.
- Keep the machine stationary, put down the side broom and turn it on for a few seconds.
- Lift the side broom, move the machine and turn it off.
- Inspect side brooms for sweep marks as shown in figures A and B 11.

If the sweep marks are not within the normal range, adjust the broom height as shown in steps 2-7.

2. Step on the brake pedal, and dial the hand brake lever, parking brake;

3. Turn the power key to the "OFF" position;

4. Open the left door.

5. Adjust bolt A to make B fall to an appropriate position (FIG. 12);

6. Matching nut of locking bolt B (FIG. 12);

7. Perform Step 1 again to check the height of the broom and adjust it properly.

8. When the broom is too worn to be adjusted, replace it as shown in the relevant paragraph.

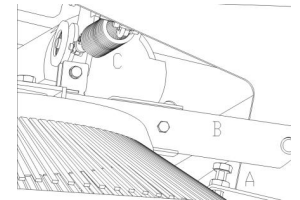


Figure 12

Side broom replacement



Attention!

A harder or softer brush is available.



Warning!

The program works with all types of brooms.

It is recommended to wear protective gloves when replacing side brooms as there may be sharp fragments between the brushes.

1. Drive the machine to the level ground, press the brake pedal, and stop the car.

2. Turn the power key to "off".

3. Put your hand into the side broom, twist the blossom nut (A, FIG. 13), press it down along the motor spindle (C), Remove brooms (B).

4. Align the new side brush with the motor spindle (C, FIG. 13) and tighten the fancy nut (A, FIG. 13).

5. Check and adjust the height of the side broom as shown in the previous section.

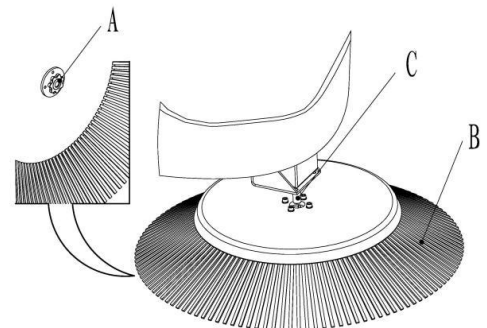


Figure 13

Dust filter cleaning and integrity inspection



Attention!

The following procedure applies to all types of filters.

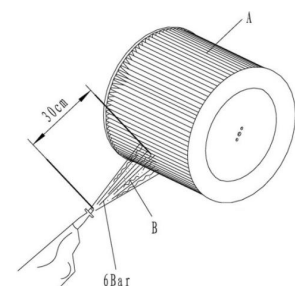


Figure 14

1. Drive the machine to the level ground, press the brake pedal,

Parking brake;

2. Turn the power key to the "OFF" position to turn off the power;
3. Unscrew the 8 shaped nuts on the dust cover;
4. Pull out the filter barrel by holding the upper and lower folds and pulling them out.
5. There are 6 inner hexagon screws in the filter barrel, unscrew and remove the filter barrel;
6. Clean by blowing with compressed air of up to 6 bar (FIG. 14) at a minimum distance of 30 cm;
7. Check the filter for cracks. Replace the filter if necessary.
8. Clean the rubber sealing pad on the dust box and check its integrity and sealing; If necessary, To replace;
9. Install components in the reverse order.

Check baffle height and operation

1. Drive the machine to the level ground to check the height of the baffle.

Press the brake pedal and stop the car.

2. Turn the key to the power off position.

Side baffle inspection

3. Open the left door and the right door.
4. Check the integrity of polyurethane side guard plate. If there are incisions (A) larger than 20 mm or larger

Replace the baffle at 10 mm crack (B).

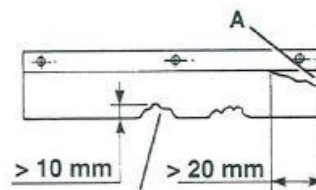


Figure 15

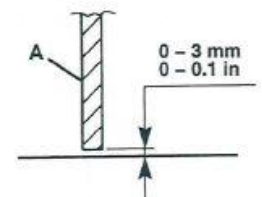


Figure 16

5. Check whether the distance between polyurethane side guard plate and ground is within the range of 0-3 mm (A, figure 15). If necessary, adjust the height of the baffle to meet the requirements.

Inspection of front and rear baffles

6. Remove the main broom as shown in the relevant paragraph.
7. Check the integrity of the front and rear baffles.
Replace the baffle if there is A cut larger than 20 mm (figure A, B 15) or A crack larger than 10 mm.
8. Check the following:
 - The front baffle (FIG. 16b) should be approximately 2mm from the floor.
 - The tailgate (A, FIG. 17) touches the ground.
9. Adjust baffle height if necessary.

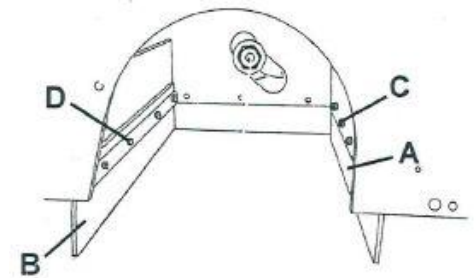


Figure 17

The battery



Warning!

At the end of each cleaning session, when the power display is less than 50%, please charge the battery, charging the battery can prolong its service life.



Warning!

When the battery runs out, please charge it as soon as possible, otherwise its service life will be reduced.



Warning!

If the machine is equipped with a lead (wet) battery, charging the battery will produce highly explosive hydrogen gas. When charging the battery, please choose a well-ventilated location, Stay away from open flames. Don't smoke while the battery is charging.



Warning!

A wet battery may leak during charging. Battery fluid is corrosive. In case of contact with skin or eyes, rinse thoroughly with water and Consult your physician.

1. Drive the machine to the level ground, step on the brake, stop and brake.
2. Turn the key to the power off position.
3. Charge the battery through an adaptive power connector.



Warning!

Be sure to use a power supply voltage that matches the frequency and voltage values shown on the charger.



Attention!

When the battery charger is connected to the power supply, the machine is not working.

For charging related operations, please refer to the charger instruction manual.

troubleshooting

The fault	Possible problems	The solution
The machine does not start when the key is in the "on" position	The battery cable is disconnected.	Reconnect the battery
	The battery charger input is connected to the power supply	Unplug the battery charger from the power supply
The machine does not start when the pedal is pressed	Parking brake opening	Release parking brake
	After turning the key, the brake pump travel switch is damaged	Change the travel switch
The main broom does not work	The contactor is not connected	Press the relevant switch to reset the contactor
The side broom does not work	The main broom did not come down	Lower main broom
	The contactor is not connected	Press the relevant switch to reset the contactor
The machine will only work when it is at rest, otherwise the red line of electric quantity display will only have four line lights on	Battery dead	Charge the battery If the problem persists, replace the battery

Low battery	End of battery life	Replace the battery
	The battery failure	Repair or replacement
Note: The drive system is faulty. Please refer to the service manual for fault detection		

Appendix I Main circuit fuse description

