



YZ-S320 Floor Sweeper

instruction manual

安徽扬子工业科技有限公司
ANHUI YANGZI INDUSTRIAL TECHNOLOGY CO., LTD.



catalog

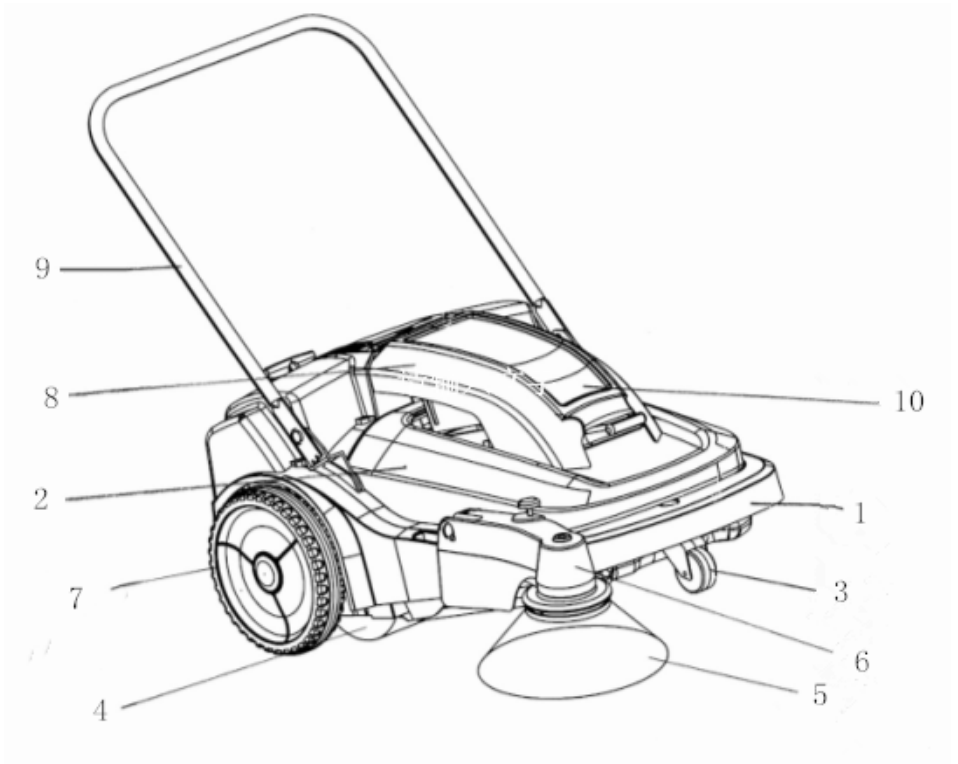
1. Notice to users
2. Brief introduction of vehicle parts and technical parameters
3. Schematic diagram of operation console
4. Operation guide
5. Maintenance and protection
6. Appearance and elimination of general faults
7. After sales service notice

I. Notice to users

1. Please read the manual carefully before using the sweeper for the first time; please keep the manual for reference by other users.
2. Before using the sweeper, please check whether all parts are in good condition. If there is any problem, please contact the dealer in time.
3. This machine can't wade in water, wash directly or without protection in heavy rain and snow to avoid damage caused by water entering internal electrical components.
4. This machine uses DC power, but
 - (1) Do not touch the charging socket with wet hands;
 - (2) Do not touch the positive and negative electrodes of the charging socket with hands or metal objects at the same time.
5. Please do not use the battery energy to the lowest voltage (under voltage recovery value) when using it every time. If the battery is often used, the deep discharge in this situation will seriously affect the service life of the battery. In addition, we should try our best to avoid the phenomenon of insufficient electricity or charging, as well as long-term storage without charging after use. It is hoped that the user can fully charge the battery in time and charge it as soon as it is used. If it is not used for a long time, the battery should be stored after being fully charged and replenished regularly (generally no more than 30 days).
6. All batteries will be affected by temperature. When the temperature is high, the discharge performance of the battery is good and the capacity is high. When the temperature is below 0 ℃ , the capacity of the battery will decrease by more than 1 / 3. In all severe cold weather, the mileage of the battery will be reduced after one-time charging, which is a normal phenomenon; when the temperature rises, the battery function will naturally return to normal.
7. In summer, it is necessary to prevent the machine from being exposed to the sun for a long time, otherwise, if the temperature exceeds 60 ℃ , the electrical appliances of the machine may not work normally.
8. If the machine is suddenly cooled from cold to hot, the electronic components will be dewed. The condensation should be eliminated before the machine is installed.
9. For the safety of others, please do not lend the sweeper to people who can't operate it, especially minors.
10. The machine should be used correctly. Attention should be paid to the use conditions and traffic safety
11. Please do not disassemble the machine by yourself. If there is any problem, please contact the dealer

II. Brief introduction of parts and technical parameters of the whole machine

A. Machine name:machine:

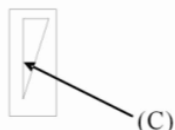
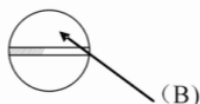
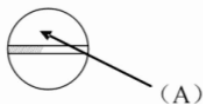


1. Fuselage underframe; 2. Dustbin; 3. Front wheel; 4. Rolling brush; 5. Disc brush
6. Disc brush bracket; 7. Rear wheel; 8. Air filter; 9. Push rod;

B. Technical parameters:

project	YZ-S320		
Working dimensions (w × h)		Roller brush diameter	700mm
Rated voltage	24V	Minimum size of roller brush replacement	/
Battery capacity	24Ah	Cleaning width of main brush	700mm
Fan specification	95W	Maximum effective sweeping area	3000m ² /h
Main motor specification	120W, 450 rpm/ min	Volume of waste tank	56L
Fan working current	2.4A	Maximum suction height	3cm
Working current of main motor	1.5A	charging time	8h
working hours	4-5h	Maximum power consumption of one charge	0.5kwh
Charger specifications	24V2.5A Three stage form	Working noise	58db(A)
Vehicle mass	48kg	Undervoltage protection point	21 ± 0.5V
Diameter of disc brush	350mm	Over current protection point	10.5 ± 0.5A

III. Schematic diagram of operation console



(A) Rolling brush, rolling
brush switch

(B) Fan switch

(C) Voltage indication

IV. Operation guide

1. Charging operation

Due to the delivery, transportation and storage of the new machine, a certain period of time is required, which may cause the battery to be insufficient. Please make sure that the battery is fully charged before using electric drive. You must use the special charger configured or designated by our company for charging, otherwise it will damage the battery and even cause fire hazard.

- (1) Carefully check whether the rated input voltage of charger is consistent with the grid voltage
- (2) The battery is charged directly on the car.
- (3) Please connect the output plug of the charger with the charger hole of the battery, and then connect the input plug of the charger to the AC power supply.
- (4) At this time, the power supply and charging indicator red light on the charger, indicating that the power has been connected and charging has started.
- (5) If the battery is not used for a long time, please be sure to store it with sufficient electricity. If the battery is stored for more than one month, it needs to be recharged once a month.
- (6) Generally, the charging indicator will be delayed, that is, when charging, the indicator will be on for several seconds after the power supply is connected; after charging, the indicator light will turn off several seconds after the power supply is disconnected, which is a normal phenomenon.
- (7) The charger shall be used in dry and ventilated environment to facilitate heat dissipation of electronic components. Do not cover the charger.
- (8) When not charging, do not connect the charger to the handover power supply for a long time to avoid affecting the charger life or other hazards.
- (9) The charger is a precision electronic product. It is better not to carry the charger along with the vehicle to avoid bumping and vibration when driving, so as to avoid damage to the charger
- (10) It takes about 3-10 hours to charge. When the charging indicator changes from red to green, it indicates that the battery is fully charged.
- (11) The maximum continuous charging time shall not exceed 15 hours
- (12) After charging, the plug on the DC power supply should be pulled out first, and then the plug connected to the battery side should be pulled out.

The charging device and battery should be placed in a safe place. Children and people unfamiliar with the operation are forbidden to contact.

2. Cleaning operation

(1) Rolling brush and disc brush switch (as shown in Fig. 1)

Switch position

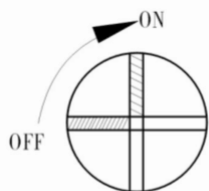


图1

A.ON

In this position, the circuit of rolling brush and disc brush is connected, and the electricity meter indicates that the rolling brush and disc brush work

B.OFF

In this position, the circuit of rolling brush and disc brush is cut off, the electricity meter has no indication, and the rolling brush and disc brush cannot work

(2) Fan switch device (as shown in Fig. 2)

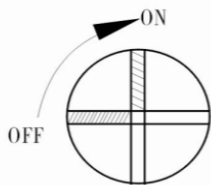


图2

Switch position

C.ON

In this position, the fan circuit is connected and the fan works

D.OFF

In this position, the fan circuit is cut off and the fan cannot work

(3) Instructions for use:

A. Before use, please check whether the tire rotation is flexible, whether the fasteners are fastened reliably, and whether the disc brush belt rotates normally.

B. Please adjust the height of roller brush and disc brush to proper position before use. C. Do not reverse the car when the roller brush works, so as to avoid damage to the motor and controller.

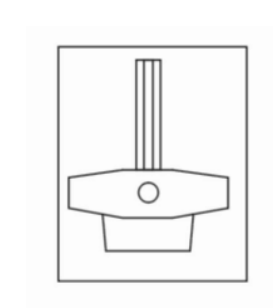
D. When the power is insufficient, the control circuit of the machine will automatically stop the work of rolling brush and disc brush, but it can work after restarting. Do not turn on and off repeatedly to avoid damaging the battery. brushes, but it can work after restarting; do not switch on the machine repeatedly to avoid damaging the battery.

(4) Brush disc height adjustment (as shown in the figure)



Adjust the brush height in clockwise direction;

(5) Roller brush height adjustment (as shown in the figure)



Please adjust the disc brush to a reasonable height. If it is too low, it will increase the power consumption and accelerate the wear of the disc brush

V. Maintenance

1. In the process of using the machine, it is not necessary to carry out maintenance and repair, generally once a week.

1) Check the electrical plug and cable for damage.

(2) Check the estimated fasteners for looseness.

2. Regular inspection and maintenance

The front axle, rear axle and other transmission parts should be regularly filled with lubricating oil.

A. Motor maintenance

The motor adopts high efficiency rare earth permanent magnet motor. It has high efficiency, high output power, low noise, high starting torque, good dust-proof, waterproof and shockproof performance. However, attention should be paid to the maintenance.

B. Battery maintenance

The company adopts high quality alloy plate, ultra pure electrolyte, small self discharge rate, less water loss, high sealing reaction rate, long service life, high energy, fully sealed, maintenance free lead-acid battery. Do not use the battery for a long time or do not charge after use. In this way, the inner electrode of the battery will produce sulfation, reduce the battery capacity and shorten the service life. Avoid deep discharge. When the energy display is insufficient, it is better to turn off the power supply and do not start it repeatedly, so as to avoid damaging the battery. The battery will be affected by the temperature. When the temperature drops to $^{\circ}\text{C}$, the power of the battery may decrease. Therefore, when winter comes or in cold areas, it is normal to reduce the driving distance after one charge. When the temperature rises above 20°C , its function will recover naturally.

C. Controller

The controller adopts microcomputer chip and peripheral digital circuit design. It has many control points, fast response and high reliability. Stable start-up, fast acceleration, no speed regulation, can arbitrarily design the voltage range of speed regulation, easy to operate and comfortable. It has the function of under voltage and over protection.

(1) Avoid rain and short circuit of controller.

(2) Avoid covering articles and affect the heat dissipation of the controller.

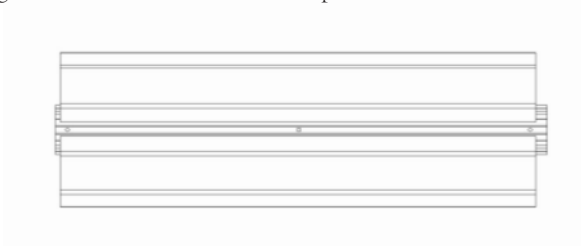
D. Brush disc replacement



When the disc brush is worn to seriously affect the cleaning effect, please replace the disc brush. When replacing, remove the three screws as shown in the figure

E. Disc brush replacement:

When the roller brush is worn to seriously affect the cleaning effect, please replace the disc brush. When replacing, take down the dustbin as shown in the figure, and then remove the fixing screw on the roller brush to replace it



VI. Maintenance

Serial number	Fault phenomenon	Cause of failure	Exclusion method
1	The whole machine is out of power	(1)The safety tube is damaged (2) Line fault; (3) Poor contact of power line.	(1)Replace the safety tube; (2) Send for repair or replacement (3) Check and connect.
2	Turn on the power, the motor doesn't work	(1)The contact wiring is loose or damaged; (2) The control system is damaged.	(1)Repair and reconnection; (2)Send for repair or replacement
3	Insufficient mileage after one charge	(1) Insufficient voltage or charger failure; (2) Battery aging or damage; (3) The position of roller brush or disc brush is too low; (4) The dustbin is too heavy.	(1) Sufficient battery or check whether the charger is fully charged (2) Replace the battery; (3) Adjust the position of roller brush and disc brush; (4) Clean the dustbin.
4	Charger does not charge	(1) Charger socket falls off or socket connection is loose (2) The wiring of battery pack falls off; (3) The charger is damaged.	(1) Fasten the socket and connector; (2) Welding connection line (3)Send to a professional store for repair or replacement.
5	The cleaning effect is not good	(1)The position of roller brush is high; (2) The belt is loose; (3) Insufficient voltage.	(1)Adjust the position of roller brush; (2) Adjust or replace the belt; (3) Charge.

VII. After sales service notice

Dear users, welcome to use the electric sweeper produced by our company. In order to protect your legal rights, improve the civil liability system for product quality, and facilitate the fulfillment of the three guarantees obligations and responsibilities, please keep the warranty card properly. With the warranty card and purchase invoice, you can get three guarantees service to the sales unit.

1. Three guarantees strict principle

1. When you purchase the machine, you should check it on the spot and debug it correctly. You have the right to ask the sales staff to provide the correct use method and maintenance items, as well as the valid invoice, warranty card, repair unit, address and contact number.
2. The user should operate correctly according to the product instruction. In case of performance failure due to manufacturing quality, the company shall perform the three guarantees obligations uniformly in accordance with the "product quality law of the people's Republic of China", "the law of the people's Republic of China on the protection of consumers' rights and interests" and "provisions on the responsibility for the repair, replacement and delivery of some goods" of the state.

2、 Free service during the three guarantees period

1. If the frame and other parts of the machine break naturally, they should be replaced within one year.
2. If large pieces of paint layer are found to fall off, they shall be replaced within one month (artificial damage and scratch are not included in this scope).
3. Electroplated parts shall be replaced within one month in case of blistering and falling off.
4. If the electrical components of the whole machine fail and cannot be repaired, they shall be replaced within six months (artificial damage is not included in this scope).
5. If the inner bearing of the motor is broken, the shell seat of the motor is cracked, and the line group is damaged, it should be replaced within one year (the artificial damage is not included in this scope)
6. The battery should be replaced or repaired within six months if it is found that the shell of the battery is cracked, leaked, cracked, etc., and its capacity is less than 60%.
7. In principle, the rest of the items not covered, which affect riding due to parts damage, shall be replaced within three months in principle, and after more than three months. Charge cost to replace. The free service period of appeal is subject to the date

of purchase.

3. Scope and contents not included in "Three Guarantees"

1. Accidents caused by the use, maintenance and adjustment of the user's manual.
2. Failure caused by the user's own disassembly and modification, and failure to comply with the use regulations.
3. The user is only caused by improper or accident.
4. No warranty card, invoice or ticket card is not inconsistent.
5. Vulnerable parts such as safety pipes, consumables and parts that are not disassembled according to regulations.
6. The cost of self repair without the consent of the special maintenance unit.

4. Principle warranty

For services beyond the scope of "Three Guarantees" and after the "Three Guarantees" period, the company is responsible for maintenance, and charges for repair and replacement parts according to the specific situation.

5. Recycling methods of waste batteries

In order to prevent environmental pollution caused by old batteries, our company has signed an agreement with battery manufacturers on the recycling of used batteries. The used batteries replaced by users are recycled by the company's product agent dealers. (for details, please consult our company's product distributor).

Part name	The motor	The charger	The controller	battery
3 bag period	One year	One year	One year	half a year



Inspection Certificate

Number: _____

Model		Motor		Accessories	
Power cable		Switch		Shell	
Suction		Control		Fuselage	
Function		Manual		Package	



Warranty Card

Number: _____

Name		Tell	
Mailing address			
Purchase time		Bill number	
Product number		Fuselage number	
Replacement parts		Date	
Fault description:			

Warranty conditions:

1. Within the date of purchase, the motor is guaranteed for one year (if it is more than 7 days from the date of purchase, no replacement, only warranty).
2. Before using the equipment, you must understand the instructions and safety instructions.
3. During the warranty period, the artificial damage of warranty accessories will not be guaranteed.
4. During the warranty period, users who do not follow the operation instructions or dismantle and repair by themselves will not be guaranteed. (if repair is needed, the cost of production will be charged)
5. The buyer shall take the invoice to the place designated by the seller for repair, or send the machine back to our company for repair. (return freight, insurance paid by yourself)