

# OPERATION MANUAL

Ride on Floor Sweeper



# WARRANTY CARD



# CATALOG

Thank you for our machines. To get better services, please read this warranty card carefully, fill in the required information, and preserve this card in good condition.

## User information

Personal or  
company's full name: \_\_\_\_\_

Address/Postal Code: \_\_\_\_\_

Telephone: \_\_\_\_\_

Email: \_\_\_\_\_

Product Type: \_\_\_\_\_

Product Serial Number: \_\_\_\_\_

Purchase Date: \_\_\_\_\_

Invoice Number: \_\_\_\_\_

Dealer's Name: \_\_\_\_\_

Dealer's Address: \_\_\_\_\_

Dealer's Telephone: \_\_\_\_\_

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### Notice:

Please be sure to charge the battery before use the machine because of long term shipping. The batteries could lose power seriously if battery not been used for long term, in order to not effect the machine's operation, we suggest to charge the machine at least once one month. If the battery loses power seriously due to the customer's personal reasons, which affects the use of the machine, it does not belong to the scope of free maintenance of the manufacturer.

## TECHNICAL PARAMETERS



Cleaning Width	1900mm
Working Capacity	15000 m <sup>2</sup> /h
Water Tank Capacity	150L
Trash Can Capacity	180L
Voltage	48V
Driving Motor	800W
Main Brush Motor	700W
Side Brush Motor	100W*4
Suction Motor	450W*2
Working Speed	0-15km/h
Net Weight	900kg
Dimension	1950*1900*1900mm

## Relevant Safety Measures

### Machine cleaning

When cleaning equipment, staff must wear safety protective clothing and use professional cleaning agent.

### Notes for Flammable and Explosive Places

Machine does not have explosion-proof function, please do not work or repair in flammable and explosive environment;

The following declarations are formulated in accordance with safety regulations. Please follow them before use in case of injury. This machine can only be used for cleaning. In addition to the consequences caused by the use of this machine, the company does not assume any responsibility.

- ◆ Full-time personnel must be responsible for the operation.
- ◆ No cleaning of toxic, harmful and corrosive substances;
- ◆ When the machine is working, children and other unrelated personnel should not be close to it.
- ◆ Before checking, cleaning, repairing and replacing parts, it is necessary to cut off the power supply.
- ◆ Open any parts to ensure that the machine is stopped; the machine must be parked on a smooth ground.
- ◆ After work, the key must be removed and the battery must be charged under safe and ventilated conditions.
- ◆ Keep batteries away from Mars, flames and fireworks; machines should not be exposed to the sun or rain outside.
- ◆ In the process of reselling and transporting machines, special logistics equipment and pallets must be used.

Other anomalies	Problems	Fault Analysis	Processing method
	Main brush friction dust shield	Damage of dust shield	Replacement of dust shield
	Garbage is moving forward		
	Brushes wear out too fast	Brush press too low	Reduce Brush Pressure
		The ground is very rough.	
	Noise is high when the main brush works	The brush is wound with ropes	Remove debris
	Do not turn the brush when it is working	Damage to conveyor belt	Replacement of belt
	Brush fan motor does not work	fusing of metal	Replacement of fuses
	Leakage of garbage from dust collector	Damage of sealing strip of dust collecting box	Replacement of Seal Strip
		The dustbin is full.	Take out the garbage
	Driving motor work, neither forward nor backward	Cable disconnection of drive motor	Check the circuit
		Damage of pedal regulator	Maintenance or replacement adjustment
		Drive chain disconnection	Repair or replace chains
	The sweeper turns only	Disconnection of tyre chain	Replacement of chains
	Sweeper does not turn	Front wheel chain broken	Repair or replace chains
	No water spraying	Damage to pumps	Replacement of water pump
		The sprinkler switch is broken	Replacement of sprinkler button
		Loose line or broken contactor	Check lines or replace contactor
		Water pipe blockage	Check and clean water pipes
	Spraying water is not foggy	Bad nozzle	Change nozzle

## OPERATIONAL SAFETY GUIDANCE



Before operating the machine, you should read this guide carefully. General safety guidelines for mechanical preparation, operation and maintenance are described in detail in this book. Accident prevention rules must be complied with when using them. If an accident occurs due to non-compliance with these rules, the manufacturer will not be responsible!

This guide is also one of the important accessories of machinery. It should ensure that the operator can read or listen to professional explanations before using it. It should be placed in a place that can be read frequently. This guide uses the following three icons as important tips.

◆Tip: Important information about economic use. Failure to comply with this prompt may lead to mechanical failure!

◆Note: Failure to follow this tip may lead to mechanical failure and property damage!

◆Prohibition: Failure to comply with this Directive may endanger persons or cause serious damage to property!

### Safety precautions

◆If you try to operate or repair the machine without reading this instruction, it may cause harm to you or others, or damage the machine or other property. Operators must undergo systematic training before they use the machine.

◆In order to avoid fire, the machine is only suitable for cleaning non-explosion-proof commercial ground.

◆Operating incomplete or unassembled machines may cause harm to you or others, as well as damage to machines or other property. Do not operate the machine until it is fully assembled. Before the user operates the machine, please check the integrity of the machine carefully.



# INSTRUCTIONS



This manual provides the necessary machine operation and maintenance instructions for the safe, convenient and correct use of the machine. Read and fully understand this manual before operating or using the machine. All necessary operation, maintenance and repair procedures must be completed by a professional.

Before ordering replacement parts, please determine the product model of your machine and other information, you can contact us in advance to confirm the parts information.

This machine provides high-quality and perfect after-sales service, if you can do the following points, you will be able to get the best results and experience at a lower cost.

- ◆ Operate the machine in strict accordance with operating procedures.
- ◆ Carry out regular maintenance of the machine in accordance with the maintenance instructions contained in the manual.
- ◆ Repair or replace with original parts or components of the same grade.



Protect the environment. Please dispose of the parts replaced by this machine in accordance with local waste disposal regulations, especially the battery pack, and be sure to do a good job of recycling

## Repair

- ◆ Be sure to turn off the equipment and pull out the key switch before cleaning, repairing or replacing the parts;
- ◆ All repairs, overhauls and other repairs must be performed by a professional or authorized service center.

## Faults and troubleshooting

Cleaning is not clean	Problems		Fault Analysis	Processing method
	Rubber abrasion			Replacement of rubber
	The brush handle did not fall in place and the wire rope was stuck.			Check the cause of blocking and troubleshoot
	Failure of filter	Filter blocking		Vibrating or cleaning filters
		Fan motor does not work	Loose wiring	Check wiring
			Motor burnout	Replacement of motor
			Carbon brush wear	Replacement of Carbon Brushes
	Large garbage leaks after cleaning		Working too fast	Reduce the speed of work
			Low Brush Pressure	Adjust brush
			Brush deformation or winding	Remove winding
	Residual dust on the ground or dust on the side		Filter damage	Cleaning filter
			Damage of dust proof rubber	Replacement of dust proof rubber
	Leave garbage around the corner		No damage to dust proof pedal or dust proof pedal	Repaired or used a dust shield.

## Maintenance

◆ The overhaul of equipment must be operated by professionals, and there should be regular overhaul time (during the work period, the overhaul must stop the equipment and turn off the power switch);

◆ In order to keep the machine in good condition, it is recommended that it be thoroughly overhauled once every six months.

◆ In order to ensure safety, overhauls of machines must be carried out every five years by professional technicians.

### Operating equipment personnel need timely training and maintenance records.

Maintenance operation	hand over	Every 10 hours	Every 50 hours	Every 100 hours	Every 200 hours	Every 400 hours
Side brush and main brush height adjustment check.						
Whether the main and side brushes have wires or wireswinding.						
The garbage filter is cleaned for a complete check.						
Skirt height and operation check.						
Refuel from the refueling hole.						
Vibration filter dust check.						
The main brush drives the belt for visual inspection.						
Screw nut tightening check.						
Check of follow-up stop the brake pedal adjustment.						
Check the wear of the main and edge brushes.						
The main brush drives the belt replacement.						
The main brush and drive system motor carbon brush are checked and replaced.						

◆ Maintenance of the machine should be carried out by professionally trained personnel. Inspection of the machine should first disconnect the power connector to avoid accidental expansion of the fault.

◆ When reconnecting batteries, we must pay attention to the polarity of the connection wires and batteries. We must never make a mistake. After the connection is completed, we should check again and again, and make sure that there is no mistake before connecting the battery connector to the machine.

◆ This machine is powered by DC power supply. It is absolutely impossible to make a wrong polarity connection of batteries. Once connected with the machine, it will cause damage to all electrical parts of the machine.

◆ Batteries of different specifications and brands have matching chargers. It is possible to damage batteries or even cause battery burst by using unmatched chargers casually. We must attach great importance to it.

◆ Maintenance of machines must be carried out by specialists in the special maintenance department. If the machines are repaired and disassembled without authorization, life injury and damage may occur to the machines. The machine has been debugged before leaving the factory. After maintenance and disassembly, it is necessary to ensure that all fasteners are not loosened. The adjusting parts are adjusted according to the requirements and locked.

◆ The electrical components of the machine may be short-circuited when they meet with water or in humid environment. Ensure the drying of electrical components, wipe the machine clean after use and park in a dry environment.

◆ The charging area should be kept ventilated. The charger should use three-core power cord and power supply with grounding wire. In order to prevent electric shock accident to the maximum extent, please install leakage circuit breaker.

◆ No items are allowed to be placed on the battery!

◆Please do not inject water into the air intake of the suction motor when cleaning the machine!

◆Failure to pay attention to the labels and instructions on the machine will cause harm.Be sure to read all the labels on the machine before operating.

◆The machine can't run on rough ground and slopes, and the operator can't sit on the machine.

◆Avoid contact between hands, feet and loose clothes and the rotating parts of the machine.

◆Careful and slow movement should be taken when the machine is operating near the edge. The space between the anti-collision wheel and the wall should be paid attention to, so as to avoid the machine moving from small obstacles, such as ground power outlet, threshold, ground wire foot and so on.

◆Use of water or detergent will make wet surface, these places are easy to cause operators or others to slip, when operating, please place warning signs around.

The machine is very heavy, please pay attention to safety in transportation; when carrying the machine, if there are batteries, first unload the batteries, and then must carry the metal frame at the bottom of the machine, do not focus on the plastic water tank!!!

### Particular Attention

◆It is forbidden to start sweepers and chargers in flammable gases or liquids. The floor sweeper shall not be stored or parked in flammable gases or liquids

### After use of the machines:

- 1.At the end of your work, do the following before you leave the machine:
- 2.Turn off the cleaning button, stop cleaning, the main brush, edge brush automatically rise
3. Vacuum negative pressure vacuum system automatically shut down.
4. Press the dust switch, clean the filter element, turn off the switch after 30-60 seconds, and stop dusting.
5. Empty the trash can and put the buckle back on the machine buckle.
6. Break the total power switch (emergency stop switch)
7. Unplug the key.With a driver's model, remember to lock the door.

### Note:

When the machine stops working, the brush must be raised to prevent the brush deformation parking, should try to be placed in the indoor flat area, if not parked indoors, the machine should be covered with plastic cloth to prevent water in or moisture.

### Caution:

When the machine needs to be dragged/pushed, ensure that the speed does not exceed 5Km/h and remove one of the motor lines from the upper stage of the walking motor on the controller, as this may result in damage to the components

### Characteristics and Parameters

Operational performance:

The machine must be operated by fixed operators on the flat ground of cement, asphalt, tile, marble and so on. It can clean dust, stone, sawdust, glass and other garbage.

### Control:

Forward, backward, turn and sweep can be operated by the operator through buttons and steering wheel in the driver's seat.

## Precautions:

When you need to use a large garbage pedal, do not press the pedal all the time, press it should be lifted immediately, such as there is not entered the bin of large garbage can be pressed down again and lifted. In general, the filter element every time the dust about 30 seconds, but when cleaning, please be sure to turn off the cleaning button ( stop cleaning), otherwise it will affect the cleaning effect of the filter.

- 1.The height of the obstacle is within 8cm.
- 2.It is safe to pass, press the large garbage pedal before driving and raise the main brush and edge brush (stop cleaning)
- 3.The height of the obstacle is beyond 8cm. A slope is introduced before it can pass.

## Precautions:

During working, according to the amount of garbage swept to the ground to decide whether to temporarily pick up dust, when the filter blocked, the machine cleaning effect will be significantly reduced.

The bins must be cleaned after each work and filling.

Whether or not the filter element is blocked, every 45 minutes of operation, it takes about 30 seconds to stop dusting and at the same time clean up the trash in the trash can.

### ◆Empty the trash can

- 1.Machine stopped completely (no vibration action, cleaning off)
- 2.Tie the trash can open.
- 3.Pull down the trash can, drag it out, and dump the trash.
- 4.Put the bin back in the machine and buckle it.

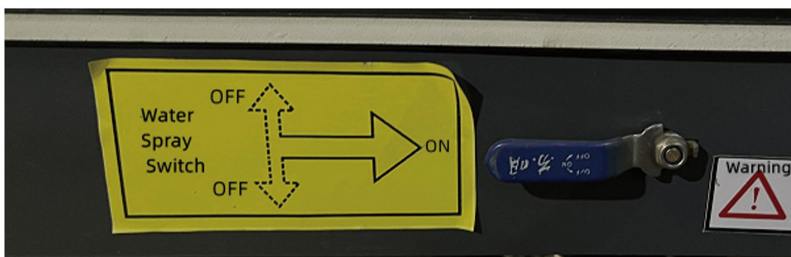
# OPERATIONAL INSTRUCTIONS > >>

## Control Panel Function:



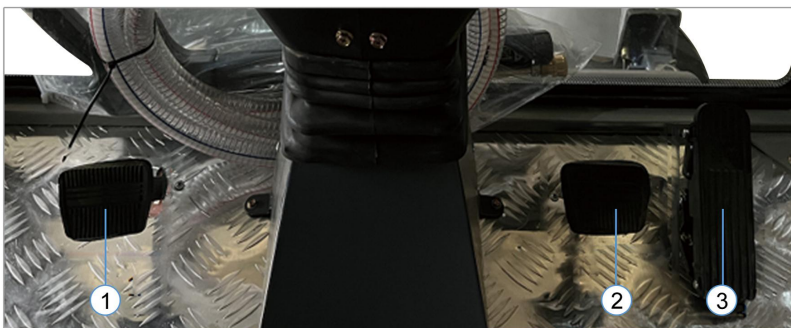
- 1.Electronic lock: Turn on the key, make the control panel is in standby status
- 2.Front/Back: Driving Switch, driving forward or backward.
- 3.Front Brush: Control the side brushes (the side brushes just work under sweeping status)
- 4.Sweep: Control the sweeping function for all brushes and suction.
- 5.Shock Dust: After sweeping, turn off all driving and sweep functions, press this button, the machine start to vibrate dust from filter.
- 6.Spray: Control the water sprayer to reduce flying dust if needed ( Turn on the switch of water valve before it)
- 7.Horn: Warning function.
- 8.Speed: Switch between high, medium and low speed when the machine is driving.
9. Turn on the lamp when machine work at night or the light is insufficient.
- 10.Power Indicator: Display the power level for machine's batteries.





### Warning:

Be sure to turn on the sprayer switch before spraying water to avoid damaging the water pump.



1. Pedal for Dust Baffle: When the machine encounters large garbage, you can step on the pedal of the dust baffle to let the large garbage into the dustbin

2. Brake Pedal

3. Accelerator Pedal

## The use of the machine.

Special considerations:

Before operating the machine, make sure that the plastic side doors on both sides of the lower part of the machine are closed and locked, that the bins are loaded correctly, and that the parking is loosened before the machine is driven. If all components are moved or the fasteners are loose in transit after the machine has been transported. The glass door on both sides of the driving type is non-violent switch, if the need for a back lock to secure the side door, not to throw directly back, apply the hand holding the inner handle gently back lock back to the side door

## The start of the machine

### ◆ Driving mode

1. Make sure that the main brush and side brushes are raised
2. Lift the total power switch (emergency stop switch, lift to turn on the power supply, press to disconnect the power supply, the machine should stop working after pressing this switch, cut off the whole vehicle power supply).
3. Insert the key and go to the ON position
4. The forward/back gear is dialed forward to the forward gear, the speeder pedal is depressed, and the sweeper can move forward.

### ◆ Cleaning mode

1. Press down the cleaning one-click start button, the main brush, edge brush automatically drop cleaning, vacuum negative pressure vacuum system automatically open, walk forward to clean the ground garbage.
2. Close the sweep one-click start button when the cleaning is complete, and the main brush and edge brush automatically lift and stop turning.
3. If you clean large garbage (e.g. cigarette boxes, sticks, leaves, etc.), press the large garbage pedal, drive low speed through areas that need cleaning, the main brush can clean up the large trash into the dustbin. (large garbage pedal is located at left foot)
4. If the working environment is poor, then stop cleaning after a certain interval, press the dust switch to turn on the automatic dusting device for automatic cleaning of the vacuum filter.