



Ride on Road Sweeper User's Manual



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- Please make sure that you have read the instruction carefully and fully understood it before using.
 - Please keep this instruction properly.

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Our company specializes in the production of electric driving sweeper, which introduces foreign advanced technology and adopts maintenance free type Power supply, integrated with suction and sweeping, has strong cleaning ability, no pollution and noise, convenient operation, long continuous operation time, convenient maintenance and absolute value for money. It can be applied to streets, factories, workshops, property communities, campus squares, etc.

1.0 Machine Appearance



- 1. Steering wheel and operation panel**
- 3. Warn light**
- 5. Garbage Bin**
- 7. Wheel**
- 9. Side Brush**

- 2. Light**
- 4. Seat**
- 6. Control pedal**
- 8. Rolling Brush**

2.0 Technical parameters

Maximum Work Productivity	8000 m²/h
Sweeping width	1380mm
Rolling Brush Diameter	700mm
Side Brush Diameter	500mm*2
Voltage/Rated Power	48V/2200W
Operation Duration	>4h
Driving Motor	1200W
Side Brush Motor	2*90W
Rolling Brush Motor	700W
Suction Motor	145W
Forward Speed	0-10km/h
Gradient	30%
Trash Tank Capacity	120L
Water Tank	110L
Dimensions	1600*1380*1350mm
Gross Weight	520kg

3.0 Operation Instructions

(1) Panel description



1. Power switch (Power off/ on)

2. Forward / backward switch

3. Sweeping

4. Vibrate Dust (After using the machine, please shake the handle to vibrate the dust from the filter)

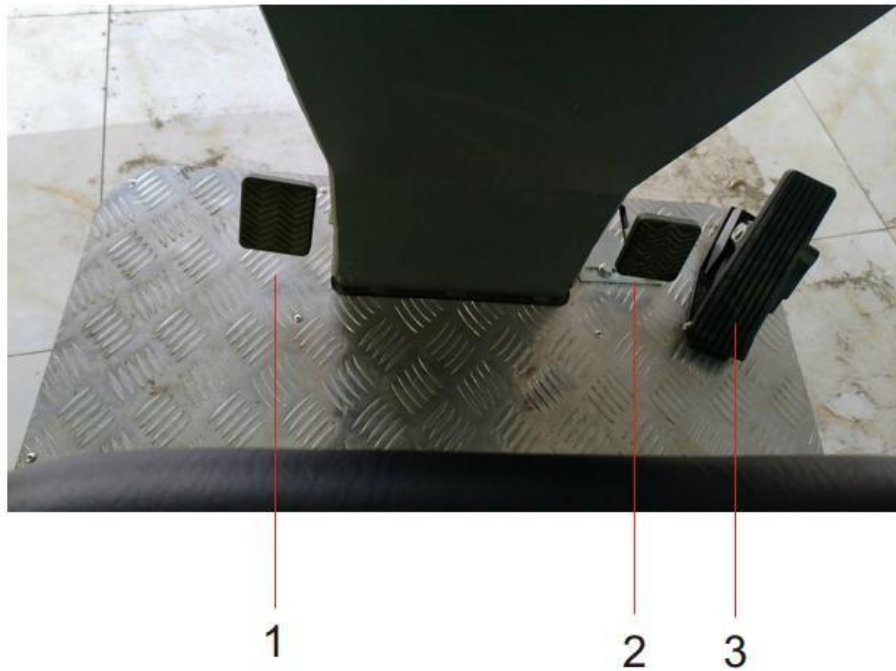
5. Lamp

6. Sprinkler

7. Horn

8. Voltage and power display

(2) Mudguard, Accelerator, Brake pedal



- 1. Mudguard pedal (When the machine encounters a ridge or a large obstacle during driving, step on the lift pedal)**
- 2. Brake pedal**
- 3. Accelerator pedal plate**

(3) Removal and installation of dustbin



If it is necessary to clear the garbage, first pull the buckle of the garbage can upward, then pull the handle of the garbage can backward to separate the garbage can from the sweeper. After dumping the garbage, align the garbage can mouth with the correct position of the sweeper, slowly push forward, push it to the end, and then press the buckle down tightly to return the garbage can.

(4) Charger



The charging socket is located at the bottom right of the seat. At the end of the operation, just insert the charger socket into the charging socket of the sweeper as shown in the figure.

4.0 Maintenance and Replacement of Wearing Parts

(1) Rolling brush replacement



1. Rolling brush
2. Fixing nuts of rolling brush edge baffle
3. Rolling brush edge baffle
4. Rolling brush connecting plate
5. Fixing nut for rolling brush connecting plate

When the rolling brush needs to be replaced or cleaned, open the left door, screw off the bakelite fixing nut of the connecting plate of the roller brush and drag out the connecting plate; then screw off the two bakelite fixing nuts of the roller brush side baffle and remove the roller brush side baffle to pull out the main brush. After replacement or cleaning, install the roller brush in reverse order.

(2) Side brush replacement



To replace the side brush, first put down the lifting rod of the side brush, unscrew the three bakelite nuts that fix the side brush, and then remove the side brush. After replacing the brush, screw on three bakelite nuts to fix the side brush.

5.0 Matters Needing Attention



- 1.it is strictly forbidden for non professionals to operate the sweeper. 2. It is strictly forbidden to clean the filaments.**
- 3.It is strictly forbidden to discharge the ribbon.**
- 4.It is strictly forbidden to park the car on the slope.**
- 5. After using the machine, please cut off the power in time.**
- 6.It is strictly forbidden to use the sweeper in rainy days.**
- 7. It is strictly forbidden to use the sweeper in case of power loss. The voltage is lower than 18.5v. Please charge it in time.**

6.0 Common Fault and Solutions

(1) The brake is not working

Adjust the wire rope nuts in the rear tires on both sides clockwise until the brake effect is the same on both sides.

(2) Not Walking

The related components are controller (left inside the distribution box), fuse (the second from top to bottom), two-way contactor (below the fuse), accelerator (where the right foot is stepped on), driving wheel (front wheel), battery, corresponding wiring segment, connector and clue. If any of the components is damaged or the contact is not good, it will not walk. Replace the damaged components to recover.

(3) Not Sweeping

There are 2 brush motors, 1 rolling brush motor, 1 fan, 1 100A contactor (in the middle of the right side of the distribution box), travel switch (located on the right side of the body, inside the rolling brush connecting plate, fixed on the right side plate), push rods, wire ropes, control switch buttons and so on. Among them, the stroke switch is damaged or not adjusted in place, the roller brush push rod is damaged, the wire rope is broken, and the control switch button is burnt, which will cause failure to clean. Side brush motor, rolling brush motor and fan motor are all controlled by 100A contactor. If any of them do not work, it is motor fault, the reasons are below:

① the sweeping switch button fails. Replace the switch.

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- ② If the sweeping travel switch fails, adjust the wire rope of the main brush to make the travel switch work; if the travel switch is damaged, replace it.
 - ③ If 100A contactor is damaged, replace it.

(4) No sprinkling

The sprinkler function mainly relates to components, water tank, water pump, water pipe, valve, nozzle, relay, switch and control circuit. Common problems include water tank leakage, water pipe rupture, loose ligation, water nozzle blockage, water pump damage, electrical circuit failure, etc. If any joint is found to have water leakage, loosen its connection section, then wrap the raw material belt and fix it tightly.

(5) No vibrating dust

Check whether the dust vibrating motor is damaged and whether the dust vibrating chain is loose or broken. If it is damaged, replace it. Check whether the relevant circuit and switch button are normal. If they are damaged, replace them.

(6) No Charge

Check whether the charger connector is connected normally, whether the charger works normally, and whether the display on the charger panel is displayed according to the instructions. If the connector is not plugged in, just plug it in. In case of any other abnormality, such as fuse blowing and charger not showing, please contact after-sales service personnel in time.

(7) Ash leakage

The common causes of ash leakage are:

- ① air filter fails to vibrate dust in time, resulting in blockage
- ② the sealant strip of the garbage can falls off or is partially damaged
- ③ the fan does not work normally
- ④ damage of front baffle
- ⑤ the main brush has filament ribbon winding or the installation direction is wrong
- ⑥ the buckle of garbage can is loose or falling off
- ⑦ if the cleaning speed is too fast, please take corresponding measures according to each situation.

(8) The rolling brush and side brush cannot be lifted

Three push rods are used to control the lifting of the main brush and the variable brush, which work separately and jointly. If one or two of them are found to be inoperative, the push rod shall be judged to be damaged and replaced; if three of them are found to be inoperative at the same time. Check the circuit. It can be judged that the button is damaged. Replace it.

(9) Steering wheel failure

The main causes of steering wheel failure are:

- ① If the chain above the front wheel is loose or broken, replace the chain in time.
- ② The connecting spline of the steering wheel is loose. Tighten the locking screw of the spline. The spline is located above the disc and the lowest part of the steering machine.

4.0 Maintenance

1. 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.

Regular maintenance inspection		Interval time (hour)				
		8	40	150	500	1500
1	Check the belt					
2	Check whether the main brush is wound by ropes					
3	Check Dust Filter					
4	Replacement of Dust Filter					
5	Check wear of main brush and side brush					
6	Check motor carbon brush					

2. 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.

3. Faults and troubleshooting

		Problems	Fault Analysis	Processing method	
Cleaning is not clean		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.

	Problems	Fault Analysis	Processing method
Other anomalies	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	