



# YZ-X6 FLOOR SCRUBBER

Operating instruction

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## Machine installation and commissioning

The machine is packaged in five parts: fuselage (water tank, rack, brush plate fixing assembly), suction pickling assembly, Brush plate, charger.

1. Installation of water-absorbing pickles:

- ◆ Remove the package and take out the water-absorbing gripper assembly, as shown in the figure below

Fix the suction head on the pendulum tail and tighten the cross handle

- ◆ Water absorption adjustment

2. If the suction scraper is pressed too low, the resistance is great

- ◆ Unscrew the setting screw of the small wheel with open head
  - ◆ Reduce the roller, visually check the water absorption strip to the ideal position, and tighten the screw;
  - ◆ Repeat the above steps to the other pickpocket wheel and adjust the height to the appropriate position;
3. Too high water absorption of the small wheel support rod is not effective
- ◆ Unscrew the support rod screw of the small wheel;



# Machine usage

Before the first use, adjust the equipment to the best cleaning effect. Before each use, routine inspection is required:

- ◆ Whether the seal strip of sewage tank cover comes off
- ◆ Is the sewage tank cleaned

### 1. Insert the suction pipe

Insert one end of the suction pipe into the inlet of the sewage tank and the other end into the exit of the tail flap. This is shown on the right

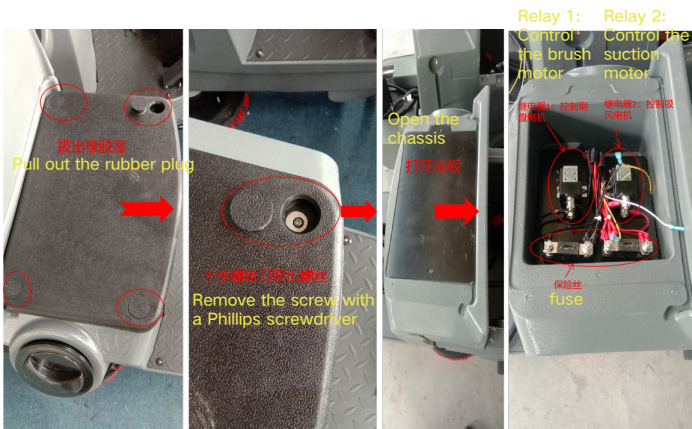
### 2. Fill with water

Please observe the water level through the water level pipe. If the water is insufficient, Please fill it with clear water

- ◆ Open the lid of the clean water tank
- ◆ Put clean water into the water tank (put the water pipe into the tank first, then open the water valve, the water temperature is not higher than 50 °C , the water level can be observed through the water level pipe)
- ◆ Add detergent, the amount can be added according to the needs of the ground
- ◆ Close the water tank cover

### 3. Water regulation

- ◆ Open the discharge valve and adjust the water amount according to the actual needs



1. Suction motor switch: turn on this switch and the suction motor starts to work;
  2. Power master switch: Start this switch and the device is in the state of power on;
  3. Brush plate switch: press this switch to start the brush plate;
  4. Voltage display meter: it can display the electric quantity of the device in reality, and the electric quantity increases during charging.
  5. Back and forth switch: Start this switch to control the machine forward or backward
  6. Emergency stop switch: In case of emergency, this button can be quickly pressed to achieve protection measures.
  7. Accelerator pedal: Control the speed of the machine with pedal pressure
  8. Brush plate lifting switch: two-gear switch, press upward, brush plate slowly lifting; Press down and brush plate slowly down
  9. Suction lift switch: two-gear switch, press upward, slowly lift the head, press downward, slowly put the head
- Under the



Specification: Rated voltage: 24VDC, maximum current: 110A

**CM2010C controller is a high performance permanent magnet brushless motor controller with the following functions:**

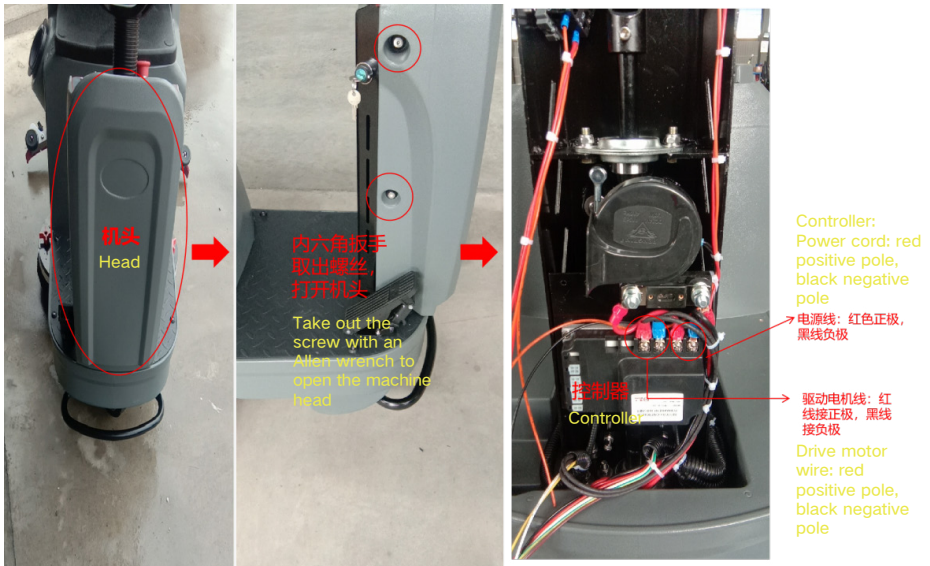
**Driving function:** full bridge power MOSFET control, realizing stepless control of forward, rear, drive and braking. Realize the soft start and soft brake Ø

**Downhill speed limit and anti-backsliding function:** driving downhill without exceeding the maximum allowed speed limit, and backsliding speed limit when standing uphill

**Diagnostic function:** The running state of the vehicle can be observed by LED status light, 10-bar electrical meter and handheld programmer

**Cart function:** close the cart switch and release the electromagnetic brake to facilitate the cart

**Brake function:** when the brake switch is in effect, the vehicle will decelerate and brake immediately and finally stop





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## **The machine charges its batteries**

Note: In order to extend battery life and ensure optimum performance of the machine, it must be exceeded at least within the machine life

Charge the battery for more than 30 minutes.

Do not leave the battery uncharged for a long time.

The following charge says

It is applicable to the charger attached to the machine.

Be sure to use the following chargers to avoid battery damage.

Type of charger: charger for lead-acid battery

Output voltage: 24V

Output current: 15A

- ◆ Automatic power off circuit
- ◆ Suitable for deep circulating battery charging

The charging items

1. Digital electric meter display number & LT;
21. Please charge it immediately
2. When charging, please plug the charger into the charging docking port of the machine and connect the 220V power supply.
3. When charging, please move the machine to a well-ventilated place for charging, and open the sewage tank side for ventilation.
4. When the digital electricity meter shows the number reaches 26, it means the charging is completed

## **Notes for use of the floor washer**

1. The voltage display meter should not be lower than 21V charging. Charging less than 21V will seriously damage the battery life, resulting in smaller battery capacity, too short machine use time, and even can not charge
2. During the use of the machine, sewage should be discharged first, and clean water should be injected into the machine's water box. If sewage is not discharged, clean water should be injected and continued to be used, and the sewage level will be raised, which will go into the suction motor along with the suction outlet and burn the motor.
3. It is strictly prohibited to use the machine without water. If the machine is changed without water, dry dust will be washed into the sewage tank and then into the suction air motor through the suction air outlet, resulting in slow motor speed.
4. The machine is strictly prohibited to drive into the road surface similar to the



- separation belt. Long time will damage the sheet metal parts and drive axle of the machine..
5. The switch of the suction motor should be turned off when the machine enters the steep road surface to prevent splashing sewage and entering the suction tuyere, which will burn down the suction motor.
  6. After the use of the machine, sewage should be immediately discharged, sewage tends to be acidic, even strong acid, no discharge of sewage on time will corroded sewage pipe, so that the service life of sewage pipe is reduced..
  7. If the machine is not used for a long time, the machine should be fully charged and placed in the storage room to avoid air drying and sun exposure.
  8. If the machine is not in use for more than 15 days, flush the machine with full power, remove the battery power line and place it in the storage room to avoid air drying and sun exposure. Before removing the battery power line, turn off the switch and key of the machine to prevent electric shock.
  9. In the cleaning process of the machine, the key switch should be turned off first. It is strictly prohibited to flush the battery, motor, wiring harness, controller computer board and other positions directly from the water pipe.
  10. After the machine is finished working, let the battery of the machine cool down before charging, the continuous charging time should not exceed 10 hours, if no one is watching, it is recommended to equip with intelligent timing socket.
  11. Charge the machine in a ventilated and warm condition. Do not charge it in a high temperature sealed environment to prevent the battery from bulging at high temperature
  12. The battery of the machine must be charged with the original charger provided by our company. It is forbidden to use fast charging, high voltage charging and low voltage charging, which will cause the battery to bulge
  13. When the machine is equipped with detergent, defoaming agent must be added to the sewage tank for defoaming to prevent the sewage bubble from being sucked into the suction motor and burning the motor
  14. The towing machine should be suitable for 1.5-2 hours in continuous use. If it needs to work for a long time, wait for the motor temperature to cool down before starting to work
  15. The sequence of starting machine switches is: main power switch → brush plate switch → water absorption switch. Inversion will cause instantaneous current to be too large and burn down the voltage display table.
  16. During continuous operation of the machine, do not switch on and off at times, which will lead to excessive starting current for many times, accelerate insulation aging of the motor, and reduce the service life of the motor

## troubleshooting

Same problem	cause	solution
The machine is inoperable	The battery is dead	The battery is charged
	Battery failure	replace battery
	Battery wiring is loose	Tighten the battery wiring
	Replace the main fuse when it blows	
The brush motor is not working	Lift the brush head off the ground	lower the brush head
	The battery meter is locked and not started	The battery is charged
	The brush plate motor circuit breaker triggers the power switch	reset the brush circuit breaker button
	Brush (up/down) switch failure	please contact service center
	Motor carbon brush wear	please contact service center
The vacuum motor does not work	Water suction steak rises off the ground	drops water suction steak
	Vacuum motor fuse blown	replace the fus
	Vacuum motor or wiring fault	please contact service center
	Motor carbon brush wear	please contact service center
Little or no flow out	Drain tank filter or solution pipe is blocked	clean drain tank filter
	The flow control knob is set too low	0 adjust the flow control knob
	Loosen the screw of the control-system knob	lubricate the knob and tighten the screw

Waste water recovery is inefficient	The sump is full	drain the sump
	Water absorbing strip wear	replace water absorbing strip
	The suction pipe is blocked	remove the blocked debris
	If the seal of sewage tank is damaged	replace the seal
	Vacuum motor fault	please contact service center
Reduced running time	Battery defective	replace battery
	Battery charging failure	repair or replace the charger

Clean efficiency	m <sup>2</sup> /h	4500
Brush plate width	mm	430*2
Water absorption scraping width	mm	1000
Cleaning width	mm	860
The rotation speed of brush plate	RPM	230
Brush plate motor power	W	380*2
Water absorption motor power	W	550
Cleaning/sewage tank capacity	L	85/90
The capacity of the battery	V/AH	24V140ah
Working hours	H	3
The machine weight	KG	236
Product size	MM	1400*1000*1100



# 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)