

User's Manual



Model: 100S

Please read this manual carefully before use / And keep it



10S Driving Type Floor Scrubber

Introduction

Each model is equipped with this manual. To provide the necessary operation and maintenance instructions.

When operating or repairing the machine, please read this manual completely and understand the machine

The machine will provide excellent service. However, if we pay attention to the following points in daily operation, we can get twice the result with half the effort.

- Be very careful when operating the machine.
- Regular maintenance of the machine - according to the maintenance instructions provided for each machine.
- Use the supplied parts or similar parts when maintaining the machine.

70s is a driving industrial and commercial cleaning machine, which can scrub rough and smooth hard surfaces such as concrete, ceramic tile, stone and synthetic materials. Typical applications include schools, hospitals, health facilities, office buildings and shopping malls. It is forbidden to use this machine on land, grassland, artificial turf or carpeted ground. This machine can only be used indoors. This machine can't be used on the road. Do not perform any operations other than those described in this operator's manual.

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Important safety instructions - keep these instructions properly

The following are the symbols and instructions used in this manual :



Warning: used to warn of risks or unsafe operations that may cause serious personal injury or death

For the sake of safety: point out the matters that must be observed when using the machine to ensure safety.

The following information signs may pose a danger to the operator, understand when these situations may occur, find out all safety hazards on the machine, and immediately report the machine damage or faulty operation.



Warning: flammable substances may cause explosion or fire. Do not use flammable substances in the tank.



Warning: flammable substances or active metals may cause explosion or fire. Do not pick them up.

For security reasons :

1. Do not operate the machine under the following conditions:

-
- Without training and authorization.
 - Did not read and understand the operator manual.
 - After taking alcohol or drugs.
 - — When using a mobile phone or other type of electronic device.
 - Not in proper working condition
 - — It is located in the area with combustible vapor, liquid or dust.
 - — Located in a dark area where it is not safe to view the controls or operate the machine unless the lights are being operated or have been turned on.
 - Areas where objects may fall, unless covered
2. When operating the machine:
- Check the machine for fluid leakage.
 - — Keep sparks and open flames away from the refuelling area.
 - — Ensure that all safety equipment is in place and working properly.
3. When using the machine:
- Use only in accordance with the instructions in this manual.
 - Slow down on slopes and smooth surfaces.
 - Slow down when turning.
 - — When the machine is running, ensure that the whole body of the operator is in operation.
 - Be very careful when reversing the machine.
 - — Children are not allowed to play on or near the

machine.

——Do not carry passengers on the machine.

——Always observe safety and traffic rules.

— — Report machine damage or faulty operation immediately.

— — Follow the mixing, handling and disposal instructions on chemical containers.

——Follow the safety guidelines for wet floors.

——Observe the site safety guidelines for wet floors.

4. When leaving or repairing the machine:

——Park on a horizontal surface.

——Turn off the machine and remove the key.

5. When repairing the machine

——All work must be carried out in a good lighting and visibility environment.

—— Avoid moving parts, do not wear loose clothes or jewelry, and tie up long hair.

Do not energized the spray near the electrical components or use the hose to wash the machine.

——Disconnect the battery connector when the machine is operating.

——Batteries must be installed by trained personnel.

——All maintenance work must be carried out by a trained service technician.

—— Do not modify the machine any different from the original design.

—Use the replacement parts provided or approved.

- Wear the personal protective equipment required and recommended in this manual.

For safety reasons: wear hearing protection.

For safety reasons: wear protective gloves.

For safety reasons: wear eye protection.

6. When loading the machine onto or unloading the machine from a truck or Trailer:

—Empty the water tank when loading the machine.

—When turning off the machine, put away the floor washing brush plate and water suction rack.

—Turn off the machine and remove the key.

— — Use slopes, trucks, or trailers that support the weight of the machine and the operator.

—When using pallets, do not push the machine onto or off a truck or trailer unless the loading height is less than 380mm (15in.) above the ground.

—Jammed machine tires.

—Attach the machine to a truck or trailer

Overall structure



Operating system



1. Main power switch
2. Fault indicator
3. Battery meter
4. Overload reset switch
5. Brush tray lifting switch
6. Lifting switch of water suction grill
7. Forward / backward switch
8. Speed regulating switch

Working principle



The cleaning parts of the machine are: a water tank, sewage tank, brush plate, needle seat or cleaning pad, a suction pickpocket assembly, water absorption motor and driving motor.

The buttons on the control panel control the machine's brush function. Lower the rocker arm of brush plate lifting and suction pickling, put the forward and backward switches in the "forward" position, adjust the speed switch (adjust to the appropriate speed and water output according to different ground), press the foot switch and start cleaning.

Note: the amount and type of dirt will determine the type of brush head or cleaning pad to be used. For special advice, please refer to the "brush and cleaning pad information" section of this manual or contact the after-sales department.

Washing method

The water and detergent in the clean water tank flow to the brush plate and the ground through the solenoid valve, and the mixed solution of detergent and water is used to wash the ground through the brush head rotation. At the same time of the machine moving forward, the sewage on the ground is sucked into the sewage tank by the suction motor through the suction pipe.

Brush and cleaning pad information

For best results, use a suitable type of brush when cleaning.

The recommended brushes and cleaning pads are as follows:

Needle plate: 380mm 14 " * 2 needle base

Brush plate: 380mm 14 " * 2 floor brush

Polishing pad (white) - used to maintain a highly polished or polished floor, and first drain water, then clean to prevent scratching the floor.

The cushion (red) is used to wipe away slight dirt without damaging the ground.

Scrub pad (blue) is used to scrub moderate to severe dirt. Wipe off dirt, stains and abrasions to clean the floor surface for recoating.

Sanding pad (brown) - used to remove coating from the ground surface for recoating.

Gravity sanding pad (black) - for strong removal of heavy coatings or substrates, or for ultra strong scrubbing.

Machine Settings

Install the suction grill assembly

1. Park the machine on a smooth ground.
2. Please turn off the machine key switch. For safety reasons: when leaving or servicing the machine, stop on a horizontal surface, shut down the machine, and remove the key.

3. Install the suction pickpocket on the suction grill bracket, tighten the two nuts, connect the suction pipe and the suction grill



Inject clean water into the clean water tank

For safety reasons: when leaving or servicing the machine, stop on a level surface, turn off the machine and remove the key.

The rear of the machine is provided with a clear water tank and a clear water injection hole.



Warning: flammable substances may cause explosion or fire. Do not use flammable materials in the water tank.

Washing method: open the water tank injection hole, and inject warm water (do not exceed 60 °C). According to the proportion of water in the tank, fill the tank with clean water according to the instructions.

For safety reasons: when using the machine, please observe the mixing ratio and handling instructions on the chemical container.

Note: if you use a bucket to fill the water, please make sure the bucket is clean; do not use the same bucket to fill the water and discharge the sewage.

Note: please use the recommended cleaning agent. Remember that the clean water tank can not use the cleaning agent with particles to prevent blocking the clean water filter and water pipes, such as washing powder. If the machine is damaged due to improper use of the cleaning agent, the manufacturer will not be responsible for the guarantee.

Operation of Machine

Inspection before operation

Check the machine for liquid leakage.

Check the sealing ring of the sewage tank cover for damage or foreign matter.

Check whether the sewage filter is blocked.

Check the condition of the brush and remove the coil, bandage, wire, plastic package or other debris around the brush.

Check whether the suction grill is worn or dirty, or adjust the angle of the suction grill.

Check whether the suction pipe and the suction opening of the suction grill are blocked by dirt or whether

the sewage pipe is broken.

Drain and clean the sewage tank.

Check the electromagnetic brake and steering wheel for normal operation.

Check whether the horn and reversing light are normal.

Check the maintenance record to determine whether machine maintenance is required.

Before operation

Before cleaning, please remove large debris and metal wire, coil, string, etc. that may wind around the brush.

Please plan the cleaning method in advance, and try to make long-term planning arrangement to minimize the number of downtime and startup. Wipe the machine clean in advance to prevent speckles.

Machine working sequence

For safety reasons: do not operate the machine until you have read and understood the operation manual.

1. Please turn on the switch key

2. Please set the direction switch (forward or backward) according to the direction of moving the machine.

Note 1: when the forward and backward switch of the machine is set in the "forward" direction, it is normal to wash the floor.



Note 2: when the forward and backward switch of the machine is in the "backward" direction, it is necessary to lift the brush plate and suction grill by pressing the brush plate lifting switch on the operation panel. The water suction motor automatically turns off and the reversing lamp lights up to warn.

3. Press the operation button, water suction grill assembly and brush plate assembly, open the water valve switch, adjust the water output, adjust the appropriate speed, step down the pedal and start to wash the floor.

4. Release the foot switch and the machine will brake automatically. You need to press the lifting switch of the brush plate on the operation panel to lift the brush plate and the suction plate together. Turn off the power and stop cleaning



Warning: flammable substances or active metals



may cause explosion or fire. Do not pick them up.

5. If you want to move the machine, push the electromagnetic brake handle up to remove the electromagnetic brake function, you can easily push it, as shown in the figure below. (if the power is turned on, the panel fault light flashes three times, and then flashes two times after a pause, and the machine still can't walk. This phenomenon indicates that the automatic brake is not reset; pull the electromagnetic brake handle down once, and the automatic brake will reset, and the machine can be used normally.)



6. This machine is small and exquisite, low chassis, strong climbing performance, can climb 15%; single brush plate washing area is large and so on.

During machine operation

Please go straight ahead as far as possible to avoid hitting the column or scraping to both sides of the machine, and overlap the cleaning route by 5cm.

During cleaning, adjust the machine speed and clean water flow according to the needs, and use medium speed

and minimum water flow as far as possible.

Keep the machine moving to avoid damaging the ground.

If it is found that the cleaning effect is not good, please stop cleaning and refer to "machine troubleshooting").

Washing method

If there is too much foam, it is recommended to use defoamer to inject the sewage tank, otherwise the foam will suck the suction motor and damage the water absorption motor.

Replace the needle plate or cleaning pad as needed.

Please pay attention to the battery level indicator to make sure that there is enough power to operate the machine.

Please pay attention to the clear water tank indicator tube to ensure that the water tank is not empty.

Please remove the key before leaving the machine.

After cleaning, carry out daily maintenance procedures. (refer to maintenance sheet)

Drive the machine slowly on the slope: use the speed control switch to slow down the machine when going down the slope, and wash the floor when the machine is going up the slope instead of going down.

For safety reasons: when using the machine, walk slowly on slopes and smooth surfaces.

Do not operate the machine in areas where the ambient temperature exceeds 43 °C (110 ° f). Do not turn

on the floor washing function in the area where the ambient temperature is lower than 0 °C (32 ° f).

Water level perspective pipe

The water level pipe of the clean water tank can simply and clearly indicate the real-time water level, which is convenient for the operation of the machine and ensures the normal use of the machine (it is suggested that the water level in the clean water tank should be displayed at more than half of the transparent pipe to maintain the water pressure and ensure the water yield at the same time).



Water level perspective pipe

Sewage tank sewage sensor

When the sewage tank is full, the sewage sensor of the sewage tank will cut off the power supply of the suction motor, but it will not stop other functions. Please remove the sewage from the sewage tank in time for normal use.



Sewage tank sewage sensor

Battery meter

The battery meter shows the power of the battery. When the battery is fully charged, all indicator lights are on. With the power consumption, the indicator lights will turn off from right to left.

Note: in order to prolong the service life of the battery, please make sure to charge the battery in time after the use of the machine.

When the power consumption reaches the first yellow indicator, please stop cleaning and charge the battery. If you continue to operate the machine after exceeding the first yellow indicator, when the last yellow indicator starts flashing, the cleaning function will automatically turn off, which can prevent the battery from completely running out. Please immediately push the machine to the charging area to charge the battery.



Overload reset switch

This machine is equipped with a reset overload reset switch to avoid damage to the electric door lock. The

overload reset switch button is located on the control panel.

There is a reset switch on the control panel of the machine to avoid damage to the brush motor. When the overload reset switch triggers power tripping, please judge the cause of power tripping and let the motor cool down, and then press the overload reset switch button manually.

If the machine needs to be repaired, please contact the authorized service center.



Overload reset switch

Timer

The timer will record the total number of working hours. Use the timer to determine when the recommended maintenance procedure should be performed and record the repair history.



Drain and clean the sewage tank

Please drain and clean the sewage tank after cleaning

or when the sewage sensor of the sewage tank cuts off the power supply of the suction motor. Then fill up the clean water tank, you can carry out the cleaning work.

1. Please push the machine to the drain immediately.

2. Please turn off the key switch of the machine. When leaving or repairing the machine for safety reasons, stop the machine on a horizontal surface, turn off the machine and give the key.

3. Remove the drain pipe of the sewage tank. Hold the drain pipe upward, open the upper cover of the drain pipe, put both hands in the position as shown in the figure, bend the drain pipe, move the drain pipe to the sewer or sink and other containers, and then slowly release the right hand to make the drain pipe no longer bend and start to drain sewage.



4. After the sewage in the tank is discharged, lift the cover of the sewage tank and flush the inside of the sewage tank with clean water.



Warning: flammable substances may cause explosion or fire. Do not use flammable materials in the water tank.

Do not use steam to clean the water tank. High heat will damage the water tank and components.

5. flush the sewage induction cover inside the sewage tank with clean water.

6. after the sewage tank is drained, cover the drain pipe and install the drain pipe back to its original position.



7. Screw off the sewage filter counter clockwise. If it gets dirty, please wash it gently with a wet cloth or brush. Please wait until the filter screen is dry, and then install it back into the machine. Do not flush the filter screen with a water gun, as shown by the arrow.



8. Cover the cover of the sewage tank to ensure that there are no other foreign matters around, as shown in the figure below



9. Open the clean water tank cover and fill it with clean water



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Problem	Reason	Solution
Insufficient suction	Suction motor is off	Turn on the suction motor
	Abrasion of water absorbing strip	Turn the direction or replace the absorbent strip
	Displacement of suction grill	Adjust the suction grill
	The suction pipe is blocked	Remove the blockage
	Dirty sewage filter	Clean the filter
	There are debris on the suction grill	Remove rubbish
	The suction pipe connected to the suction grill is not connected or damaged	Re connect or replace the suction pipe
	The cover of sewage tank or sewage pipe is not tightly covered	Check for obstruction and cover
Suction motor does not work	Suction motor switch off	Turn on the water suction motor switch
	The sewage tank is full	Drain sewage tank
	Foam filled sewage tank	Empty the sewage tank
		Reduce the use of cleaning agent or add appropriate amount of defoamer into the sewage tank
Dirty, damaged or blocked sewage tank sensor	Clean or replace the sensor	
The water output of the brush plate is little or no	The water tank is empty	Fill up the clean water tank
	The water valve is closed	Open the water valve
	The solenoid valve is damaged	Replace the solenoid valve
	Filter screen of clean water tank is blocked	Drain the clean water tank, take out the filter screen of the clean water tank for cleaning, and then install it back
The washing	Use improper detergent or brush	Contact maintenance personnel

effect is not good	The sewage tank is full	Empty the sewage tank
	Water tank empty	Add water to clean water tank
	There are debris on the needle seat or cleaning pad	Remove rubbish
	Floor brush wear	Change the brush
	Low battery	Charge the battery until the charger is turned off
When the machine is shut down, the drain valve is in the open state and the water flow is non-stop	Impurities in solenoid valve	Fill the clean water tank with water, open the water valve to the maximum, start the machine, and use the water pressure to clean the impurities in the solenoid valve [repeat this step several times]
	The solenoid valve is damaged	Replace the solenoid valve

Maintenance table

The following table indicates who is responsible for each procedure

O = operator

T = specially trained personnel

Cycle interval	person	explain	program
everyday	O	Brush plate / needle base cleaning pad	Check the height of the brush plate / needle holder
	O	Sewage	Check for damage and wear or debris

100h	T	Sealing ring of sewage tank	Check for damage and wear
200h	T	Maintenance free battery electrode and wiring	Check and clean
500h	T	Vacuum motor	Check the motor brush (every 100 hours after the first 500 hours)
	T	Brush motor	Check the motor brush (every 100 hours after the first 500 hours)
	T	Driving motor	Check the motor brush (every 100 hours after the first 500 hours)
	T	Wheel	Check for damage and wear

Note: more frequent maintenance may be required in extreme dusty conditions.

Battery charging

Important: when charging, make sure the charger is set up properly according to the type of battery.

1. Push the machine to the flat and dry ground.

Note: please make sure the area is well ventilated.

2. Turn off the machine key switch.

When leaving or servicing the machine for safety reasons,

stop on a level surface, turn off the machine and remove the key.

3. Plug the charger connector into the battery charging interface.

Note: during charging, do not pull the DC line of the charger out of the socket on the machine to avoid arc discharge. If you have to stop charging during charging, please unplug the AC power cord first

Precautions for installation and use of battery

1. Before using the battery, check whether each battery is damaged, clean and clearly marked, and clean the surface of the battery with dry cloth; check the open circuit voltage of the battery, whether the positive and negative poles are clearly marked, and whether there is reverse pole.

2. The battery shall be installed upright according to the requirements of the drawing, and the distance between adjacent batteries shall be at least 5mm. After the installation, check the requirements of the installation drawing, check whether the positive and negative poles of each battery are correct, and then connect each battery with a whole set of wires.

3. After all the batteries are installed, check whether the connecting part is loose. Tighten the connecting part. Do not use too much force to damage the pole. Generally, the torque is not more than 15N ·m

4. When the battery of the whole vehicle is installed, the plug between the batteries should be adjusted to make

the battery in a vertical position, and the battery should be fastened to prevent the battery from shaking and collision.

5. The electric door lock, safety seat and other devices that are easy to produce sparks must be isolated from the battery.

6. The state of charge of the battery is out of the factory. Generally, the user can directly load the battery for use. If the battery has been put aside for a long time (more than 3 months), recharge it according to the charging method before use.

7. The storage battery shall not be close to the fire source and heat source. It is strictly forbidden to directly expose to the sun in hot summer. Violent vibration, collision and short circuit of positive and negative electrodes of the battery shall be avoided.

8. The battery capacity is based on the ambient temperature of 25 °C. When the temperature drops by 1 °C, the battery capacity will drop by about 1%. In use, the influence factors of temperature should be considered, and at the same time, the battery should not be used in the environment below - 10 °C.

9. The battery shall not be disassembled at will to avoid danger.

10. Waste batteries must be recycled and not be discarded at will, which will affect the environment.

11. When charging, pay attention to the temperature change of the battery to prevent overheating damage to

the battery and danger.

12. It is strictly forbidden to use the battery under the condition of long-term power loss. The battery must be fully charged at one time before it can be used. (if you do not follow this procedure, you will be responsible for the consequences.)

Install brush plate and cleaning pad

Replace the brush plate, needle base and cleaning pad

1. Park the machine on a flat surface and make sure that the brush motor is in the raised position.

2. Rotate the brush disc counterclockwise / clockwise respectively to remove the brush disc.

3. For safety reasons: when leaving or repairing the machine, stop on a horizontal surface, turn off the machine and pull out the key.

4. Check whether the wire ball is entangled on the brush plate and driving wheel every day. In addition, the brush plate should also be checked for damage and wear.



Suction strip

The suction strip is used to lead in sewage and let the suction motor suck into the sewage tank through the suction pipe.

Check the abrasion of the absorbent strip every day. If the absorbent strip is half worn, turn the direction or replace the strip.

The suction grill assembly can be removed from the suction grill bracket when transporting the machine to prevent damage.



Pull off the suction pipe
counter clockwise

Screw off the retaining nut

6. When installing the suction grill, check whether the rubber strip of the suction grill is worn. If one side is worn, please replace it with the other side. If both sides are worn, please replace it with a new one. When replacing a new adhesive strip, the one with a gap on the edge of the adhesive strip shall be placed in front of the water suction grill assembly, and the one without a gap shall be placed behind the water suction grill assembly. First place the front rubber strip, install the bottom plate of the water suction

assembly, and place the rear rubber strip. Pay attention to align the hole on the back suction strip with the flange on the suction strip assembly, place the suction strip, tighten the buckle, and then tighten the nut on the bottom plate of the suction strip assembly.

7. Install the suction grill back to the suction grill bracket, and install the sewage suction pipe.

Push or tow a machine

If the machine is turned off, you can push it forward or backward, but you cannot drag it from the side.

For safety reasons: do not operate the machine when the brake is stopped.

Only push or tow the machine on a flat surface. Do not exceed 3.2kph (2mph) and do not attempt to push or tow the machine at high speed.

Push or tow the machine immediately. Please push the manual brake handle to remove the electromagnetic brake function and move the machine easily.

Transport machine

When handling the machine with a truck or trailer, be sure to follow the following procedures

1. Raise the water suction grill assembly and brush plate motor.

For safety reasons: when loading or unloading the machine from a truck or trailer, the water tank must be emptied before loading the machine.

2. Use the recommended loading / unloading machine on the loading / unloading pad. For safety reasons: when transporting the machine, use the recommended loading pad to load and unload the machine from the truck or trailer.

3. Place the front of the machine close to the front of the truck or trailer.

4. Place obstacles behind each driving wheel to prevent the machine from sliding.

5. Bind the shelf of the machine with ropes, and then bind it to the trailer or truck to prevent the machine from tilting.

For safety reasons: when transporting the machine, use ropes to fix the machine on the vehicle plate.

Storage machine

When storing the machine for a long time, please take the following steps.

1. Drain and clean the clean water tank and sewage tank, and open the sewage tank for ventilation.

2. Park the machine in a cool and dry area. Do not store the machine in the rain.

3. Take out the battery, or charge the battery every 3 months (be sure to fill it up).

Anti Freezing

For safety reasons: stop and shut down the machine on a level surface when leaving or servicing the machine.

1. Drain the water in clean water tank and sewage tank.

2. Pour 2 gal (8 L) of antifreeze into the water tank without diluting.

3. Power on the machine, and then operate the solution flow system. When antifreeze appears, turn off the machine.

Battery charger fault code

Code	Fault	Solution
LED2 the light is green and flashing	The battery voltage is lower than 22V	Use 24 V, 150Ah charging for half an hour, and then use intelligent charger for daily charging.
	Battery reverse grid, less than 22.4v	
LED2 light is red	The battery voltage is lower than 22V	The battery connector is not connected properly; the battery circuit is faulty
Remark	1.The charger with liquid can't charge the maintenance free battery, it's easy to burn the ring charger	
	2.The maintenance free charger can charge the filling battery, but it cannot be fully charged	
	3.If the voltage is lower than 22V, the smart charger will not work	
	4.If the battery voltage is lower than 23v, the battery will issue a charging warning, please charge in time	
	5.The above faults are all for new batteries, if the old batteries need to be replaced and maintained	

	6. In general, if the battery is insufficient, the electricity indicator on the machine operation interface will warn you. Please charge it in time. If it is not charged for a long time, the above faults will appear
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The LED light of intelligent charger indicates the working state

LEDLight	Indication status	Working status
LED1.LED2	Flashing, fan does not turn	Pre charging state [charging time: 3 hours]
LED1LED2	Red light on, fan turning	Constant current state [charging time: 7-8 hours]
LED1.LED2	Red light on, fan turning	Constant voltage state [charging time: 4.5 hours]
LED1.LED2	LED1 red light on、LED2green light on、fan not turn	Small constant current state [charging time: 4.5 hours]
LED1.LED2	LED1 light off、LED2 green light on、fan not turn	Charger finished
Remark		
LED2	1、 Load short circuit	
Several	2、 The wires are reversed	

cases of red light	3、 Battery line short circuit
	4、 Over temperature - LED2 lights orange

Specification

Item	Specification
Model	100S
Length	1400mm
Highth	1260mm
Width	1000mm
Width of absorption grill	1000mm
Diameter of brush	380mm×2
Cleaning width	760mm
Tank of water	100L
Sewage of tank	115L
Weight	280KG

Type

Type	Quantity	Voltage	Rated current	
Battery	3	8V	150Ah 3hr	

Type	Usage	VDC	KW (hp)
Motor	Brush motor	24	0.3/0.4×2
	Driving motor	24	0.4

	Sunction motor	24	0.6
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Type	VDC	Ampere	HZ	VAC
Charger	24	20	50	220

Wheel

Position	Type	Size
Front wheel	Solid	175mm*60mmwidth
Real wheel	Solid	225mm*80mmwidth