



User Manual for M4

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Illustration User Manual

Important!!

Please read this manual carefully before operating the machine.

2.1 Purpose of this Manual

This manual is written by the manufacturer and is an integral part of the machine. It describes the purpose of designing and producing the machine and contains all the information the operator needs. In addition to the operator's manual, other manuals on maintenance have also been issued. Operating and maintaining the machine in accordance with the instructions in the manual can ensure the safety of the operator and the machine, save operating costs, obtain high-quality results, and extend the life of the machine. Otherwise, it may harm the operator and the machine and damage the clean floor and environment. In order to find the topic you are interested in more quickly, you can refer to the manual catalog. The text that requires your special attention has been highlighted in bold and is accompanied by symbols and graphic explanations.

Danger!!!

The above diagrams indicate that special attention is required to avoid serious accidents that may harm the operator.

Warn!!

The above diagrams indicate that special attention should be paid to avoid damaging the machine or the working environment and causing economic losses.

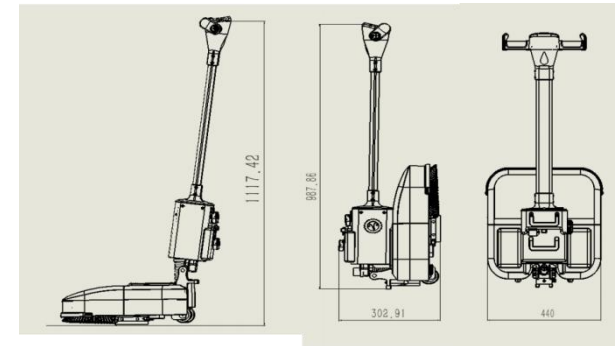
Important Information!

Particularly important instructions.

The company is committed to continuous development and updating of products, so we reserve the right to make improvements without further notice.

Even if the machine you purchased is slightly different from the pictures in this manual, the safety and information contained in this manual still apply to your machine.

2.2 Machine Dimensions:



2.3 Machine identification: (The label is located on the side of the machine and provides the following information)

Product Name: Multifunctional Floor Scrubber

Product Model: M4

1. Brush Cleaning Width: 428mm
2. Work Efficiency: 1200 m²/h
3. Walking Speed: 5km/h
4. Suction Width: 440mm
5. Clean Water Tank Capacity: 3L
6. Sewage Tank Capacity: 4.2L
7. Number of brushes: 8 inches x 2
8. Power source: 36V
9. Continuous working time: 1-1.2/h
10. Brush plate pressure: 8Kg
11. Total power of brush motor: 140W (brushless)
12. Vacuum motor power: 90W (wet and dry brushless)
13. Water outlet valve: 7.5W
14. Working noise: 65-67DB
15. Battery capacity: 8Ah
16. Charging time: 2.5h
17. Machine weight: 19.4kg
18. Machine gross weight: 23.6kg
19. Packing size (length x width x height): 580x530x335mm
20. Water output: 1st gear 180ml/min; 2nd gear 260ml/min

2.4 Documents included with the Product

- > Instruction Manual:
- Warranty Card;
- Instructions for Ordering Parts;
- > Maintenance Record

3 Technical Information

3.1 Overview

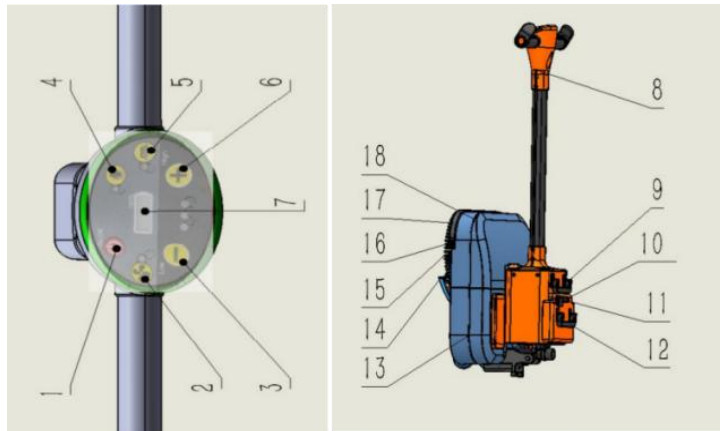
This machine can complete the two tasks of cleaning the ground and sucking up the sewage in one step. It is suitable for civil and industrial flat ground or moderately rough ground. The floor scrubber sprays a proper proportion of detergent onto the floor and scrubs it to remove dirt. Carefully select the appropriate detergent and floor brush to remove dirt on different floors. Using the suction force generated by the floor scrubber's suction motor, the squeegee at the back of the machine can suck away the dirty water on the floor after cleaning.

3.2 Legend

The main components of the machine are as follows:

- > Clean water tank: loads a mixture of detergent and clean water, as shown in the figure;
- > Sewage tank: collects sewage on the ground after cleaning, as shown in the figure;
- Control Panel:

1. Main Power Switch(ON=OFF)	11. Battery Lock Button
2. Water Absorption Switch	12. Battery (8Ah)
3. Brush Speed Reduction	13. Wastewater Tank
4. Water Pump Switch	14. Absorb water and lie down
5. Brush Plate Switch	15. Brush
6. Brush Speed Adjustment	16. Anti-Collision Wheel
7. Battery Level Display	17. Anti-Collision Rubber Strips
8. Bull Head Handle	18. Clean Water Tank
9. Battery Slider Handle	
10. Charging Port with a Pin	



- >Squeegee Assembly: Scrape and absorb water on the ground;
- Floor scrubbing brush assembly: mainly a brush disc that distributes clean water to the floor and removes dirt;

3.3 Danger Zone

- A- Water tank: Irritation to eyes, skin, mucous membranes, respiratory tract when using certain cleaning agents. Danger from dirt collected from the surrounding environment (bacteria and chemicals). There is also a risk of being pinched by the water tank.
- B- Control panel: risk of short circuit.
- C- Brush plate chassis: Danger due to the rotation of the floor brush.
- D- Rear wheel: Danger of being pinched between the rear wheel and the chassis.
- E- Battery box: danger of short circuit between battery electrodes and danger of hydrogen gas generated during charging.

4 Safety Information

4.1 Safety Rules

Warn! !

Please read the operating manual carefully before using or servicing the machine.

Please strictly follow this manual (especially important information involving danger or warning) and the safety instructions that come with it.

The manufacturer will not be held responsible for any serious consequences caused by failure to follow these instructions.

- > The machine can only be operated by trained and competent employees.
 - Minors are not allowed to operate the machine.
 - The machine should not be used for purposes other than those for which it was designed. Carefully consider the safety standards and working environment of the type of workplace where the machine is located (e.g. pharmaceutical company, chemical plant, etc.).
 - Do not use the machine in low light conditions, near flammable or explosive materials, on roads, or in places that are harmful to health.
 - The machine is designed to work at a temperature between 4 and 35 degrees. Do not use the machine when the temperature is below 0 degrees or above 50 degrees.
 - The humidity suitable for the machine to work is between 30% and 95%.
 - Do not use the machine to absorb flammable and explosive liquids (such as gasoline, fuel, etc.), flammable gases, dry powders, and even diluted acids or solvents (such as paint solvents, acetone, etc.); do not use it to absorb burning or hot objects. Use diluted acids or solvents (such as paint solvents, acetone, etc.); do not use to absorb burning or hot objects.

➤ Do not use the machine on a slope exceeding 20 degrees. Do not operate the machine sideways on a slight slope.

Do not operate in reverse. When operating on steep slopes, be careful to avoid tipping over or uncontrolled acceleration.

Go slowly on slopes with the brush and squeegee raised.

Do not park the machine on a slope.

Before leaving the machine, the motor must be turned off. Make sure that the machine does not start accidentally.

Be careful not to hurt people around your workplace, especially children.

Do not use the machine to carry people, objects, or tow objects. Do not tow the machine.

Do not store anything on the machine.

Do not block ventilation vents.

Do not remove or modify safety devices

➤ Many lessons have shown that many personal belongings can cause serious accidents. So please take off your jewelry, watches, ties, etc. before work.

> Operators should use personal protective equipment - protective aprons or work clothes, non-slip and waterproof shoes, rubber gloves, goggles, ear defenders and masks to protect the respiratory tract.

➤ Keep your hands away from moving parts.

> Do not use any cleaning agents other than those specified. Follow the relevant safety instructions. Keep cleaning agents out of the reach of children.

> If the cleaning agent accidentally splashes into the eyes, rinse the eyes immediately with plenty of water. If the cleaning agent is swallowed, seek medical attention immediately.

➤ Make sure the power socket is properly grounded and equipped with an overcurrent protection switch.

Ensure that the electrical parameters (voltage, frequency, power) on the machine nameplate are consistent with the standard power supply.

> Batteries must be used and maintained in accordance with the battery manufacturer's instructions. Keep batteries clean and hygienic to avoid leakage. Protect batteries from contamination by impurities such as metal dust.

➤ When using battery fluid, please strictly follow the relevant safety instructions.

> In places with strong magnetic fields, the impact of the magnetic field on the machine control circuit must be evaluated.

➤ Do not use a water gun to clean the machine.

The sucked back sewage contains detergents, disinfectants, water, organic and inorganic substances. Therefore, the sewage must be discharged in accordance with local regulations.

> When the machine fails, please turn off the power supply of the machine immediately (unplug the power plug or disconnect the battery), do not tamper with the machine, and contact the manufacturer's authorized maintenance center.

➤ All maintenance work must be done on a flat surface after disconnecting the power supply of the machine (disconnect the battery).

Except for the parts clearly described in this manual, all electrical maintenance and repair work must be performed by professionals.

> When replacing cables, plugs or connectors, make sure that the wires and cable connectors in the control panel are securely connected before reinstalling the control panel to ensure the safety of the operator.

To ensure the operator's safety, please use only original spare parts. Do not use parts removed from other machines.

The machine is designed to be used for 3 years. The label shows the production date of the machine. After 3 years, regardless of whether the machine has been used or not, in order to ensure safety, the machine should be scrapped in accordance with local laws.

- Disconnect the machine from the power source and empty the water tank.
- This machine is classified as RAEE (waste electrical and electronic equipment) in accordance with the new environmental protection regulations (2002/96/CE RAEE). It must be separated from ordinary objects and scrapped separately in accordance with local laws and standards.

Danger !!!

Please dispose of special waste separately from ordinary waste.



Please dispose of special waste separately from ordinary waste.

- You can also return the machine to the manufacturer for a comprehensive overhaul.
- If you decide not to use the machine anymore, we recommend that you remove the battery and send the machine to a special collection center for scrapping. At the same time you must eliminate all potentially hazardous parts of the machine, especially those that could pose a risk to children.

5. Transportation and Installation

5.1 Loading and Transportation of the Machine

Warn!!

During each lifting process, make sure the machine is securely secured to prevent it from tipping over or accidentally falling.

Please load or unload on a flat surface.

The machine is shipped from the factory on a pallet. It must be loaded onto the truck using appropriate equipment. Once it reaches its destination, similar equipment should be used to unload it.

- > Special carton packaging.
- > Please use a forklift to lift the packaged machine. Be careful to avoid damage or tipping of the machine.

5.2 Inspection of the Machine after Arrival

When the machine arrives at the destination, please check to make sure that the machine and packaging are intact. If the machine is damaged, please inform the logistics company before receiving it and request compensation in writing.

5.3 Unpacking

When disassembling the packaging, the operator must wear necessary protective equipment (gloves, goggles, etc.) to reduce the risk of accidents.

Unpacking and installation follow the steps below:

1. Cut the packaging rope with scissors or pliers;
2. Remove the carton;
3. Take out a charger from the box and check the contents of the document bag:
 - 1) Test Record
 - 2) Warranty Certificate
 - 3) Ordering spare parts
4. Assemble the bull head handle, as shown in the figure:



After removing the packaging, please keep the packaging of the machine so that you can reuse it when you need to transport the machine to another place or send it to a repair center. Otherwise, please dispose of the packaging in accordance with relevant laws and regulations.

5.4 Battery

The following batteries may be installed on the machine:

Lithium battery: high-performance lithium battery, can be charged up to 1500 times. In order to extend the service life of the lithium battery, please use the original charger for charging.

The electrical parameters must be consistent with the requirements of the machine. Using a battery that is too heavy may cause the machine to be inflexible and overload the brush motor. Using a battery with a small capacity will lead to frequent charging.

Warn!!

The battery must be charged regularly and kept clean and dry. The connections must be secure.

5.5 Installing the battery

5.5.1 Preparation

Warn!!

When installing or maintaining the battery, the operator must wear necessary protective equipment (gloves, goggles, etc.) to reduce the risk of accidents. Stay away from open flames, avoid short circuits between electrodes, avoid electric sparks, and do not smoke.

Install the battery on the machine (follow the steps below):

Before using the machine for the first time, please charge the battery. Please refer to the relevant instructions.

5.5.2 Battery: installation and connection as shown:



5.6 Battery Charger

Do not over discharge the battery, otherwise the battery will be irreparably damaged.

5.6.1 Selecting a battery charger

Make sure the charger is appropriate for the battery being charged:

- Lithium battery: A 36V-2~5A automatic charger is recommended.
- Both types of chargers are available in traditional transformer structure and

high-frequency electronic types.

-Please consult the charger manufacturer and refer to the instructions to confirm your selection.

5.6.2 Preparing the battery charger

If you use a charger other than the one that comes with the machine, the charger connector you choose must match the machine socket.

Follow these steps to install the matching charger plug:

1. Remove the 13mm protective layer from the red and black cables of the charger;
2. Insert the cables into the plug contacts and clamp them with a pipe clamp;
3. Pay attention to the polarity when plugging the wire into the plug (red wire is +, black wire is -).

5.7 Lifting and Transporting Machines

All actions must be performed on a flat surface and the most appropriate safety measures must be adopted according to the current environment.

Operators must wear personal protective equipment.

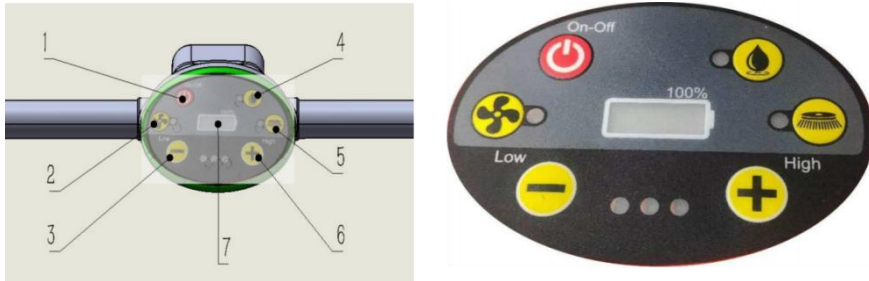
Follow the steps below to load the machine onto the transport:

1. Empty the fresh water tank and the waste water tank;
2. Place the machine on the pallet and secure it with ropes or iron frames;
3. Use a forklift to lift the machine and the pallet and place it on the transport;
4. Tie the machine to the transport with ropes.

6. Operator Instructions (Applicable to Intelligent Control Systems)

6.1. Control - Description

Looking at the picture, this machine has the following controls and display lights:



> LCD power indicator light, which can show the battery power percentage; [7]

> Main power switch button (①): turns on or off the power to all machine functions. It is a safety device. To stop the machine in an emergency, press the button.

>Brush plate speed adjustment button diagram (6 3): “+”“-”_ Press to adjust the brush plate speed and select different speeds according to different floors.

>Water pump switch button diagram (4): You can turn the water switch on and off for washing the floor.

>Brush motor button diagram (5): Run the brush motor, stop the brush motor.

>Water suction motor button diagram (2): Press to run the water suction motor, and to stop the water suction motor.

>Clean water tank: The water tank located on the front side of the machine is a clean water tank with a capacity of 3L. It can be removed by pulling it outward.

Clean water tank, as shown in the picture above, remove the clean water tank, open the

blue cover and add clean water. If there are stains and oil on the ground, you can add detergent according to the proportion.

Warn!!

Please note that you must add defoaming agent to the sewage tank to prevent sewage from entering the water suction motor and causing unnecessary damage to the water suction motor;

Sewage tank: The water tank located on the rear side of the machine is the sewage tank, with a capacity of 4.2L. (As shown in the figure above) You can remove the sewage tank by pulling it outward. As shown in the figure above,remove the sewage tank and open the blue cover to pour out the sewage; if detergent is added to the clean water tank.

Warn!!

Please note that you must add defoaming agent to the sewage tank to prevent sewage from entering the water suction motor and causing unnecessary damage to the water suction motor;

> Sewage tank level indicator: The sewage in the sewage tank should not exceed the highest blue liquid level line on the side of the sewage tank.

6.2 Installation and adjustment of the squeegee:

The squeegee is the first step to dry the floor. The squeegee is already installed on the machine at the factory and does not require installation or adjustment:



2) Loosen the knobs on the inside of the squeegee one by one to replace the rubber strip.

3) After replacing the rubber strip, tighten the knob of the squeegee.

The rubber strip of the squeegee absorbs the water and detergent on the ground, making basic preparations for the complete drying of the floor. Over time, the corner of the squeegee rubber strip that contacts the ground will become rounded or cracked, reducing the water absorption effect. At this time, the rubber strip needs to be replaced. Check the wear of the rubber strip regularly.

User Manual

Important information!

In order to achieve the best water absorption effect, the squeegee must be adjusted to the following state: When working, the water-absorbing rubber strip at the back is bent at a 45-degree angle to the ground, and the rubber strip is in close contact with the ground. If the rubber strip is worn out during working, please replace it with the original one.

6.3 To move the machine when it is not in operation, follow the steps below:

- 1) Lift the machine chassis and let the chassis support wheels touch the ground.
- 2) Hold the upper handle with one hand and lift the upper handle of the chassis with the other hand. **Please use both hands to carry the machine to avoid breaking the machine and causing unnecessary losses.**
- 3) After arriving at the destination, place it in a safe place and start working.

Warn!!

Do not leave the machine alone. Do not park the machine with the brush plate on the ground.



(Placement Reference Image)

6.4 Installing and replacing the brush plate/needle plate

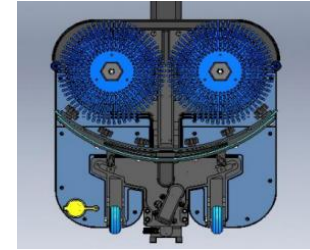
Warn!!

Do not start the machine until the brush/needle disc is installed.

Install the brush plate. This machine uses two methods to specify the brush plate. Please refer to the design conditions for operation:

1. One is fixed type: no need to install or remove the brush plate, it can be used directly;
2. A separate brush plate: Place the brush plate under the chassis, pick up the brush plate symmetrically with both hands, find the balance of three points in the clockwise direction, and install it with a little force. (If there is a shaking phenomenon when the machine is running, it means that the brush plate is not installed properly, remove it and reinstall it), as shown in the figure:

User Manual



Use the scouring pad: Replace the brush plate and install the needle plate. First, stick the scouring pad to the needle plate, and then install it on the floor scrubber in the same way as the brush plate. Disassemble the brush plate (or needle plate): Follow the installation and disassembly sequence.

6.5 Instructions for use of cleaning agents

Warn!!

Please dilute the cleaning agent according to the manufacturer's instructions. Do not use bleach or oxidizing agents, especially in high concentrations. Do not use solvents or saturants. The temperature of the water or cleaning agent must not exceed the specified parameters. No sand or other impurities are allowed.

The machine must use a low-foaming, biodegradable cleaning agent designed for floor scrubbers.

>For a complete and up-to-date catalogue of cleaning agents, contact the manufacturer: you will be provided with a reference brochure from the company.

Please follow the safety rules in the "Safety Regulations" when using cleaning agents.

6.6 Machine Preparation

Warn!!

Before starting work, please wear work clothes, earmuffs, non-slip and waterproof shoes, respiratory masks, gloves and all other protective equipment recommended by the cleaning agent manufacturer. Take appropriate protection according to different working environments.

Before starting work, please follow the steps below:

1. Check the battery power (if the battery is low, please charge it fully first).
2. Fill with clean water (make sure the sewage tank is empty). Be sure to drain all the sewage in the sewage tank before filling with clean water.
3. Make sure the squeegee is securely attached and connected to the suction pipe. Make sure the rear suction strip is not worn out.
4. Depending on the floor and material, you can choose to use a needle plate with various colors of cleaning pads or a common brush plate. If you are using this machine for the first time, it is recommended that you use it in a larger open space to get the necessary familiarity.

>For efficient cleaning and to extend the life of your machine, follow these simple rules:

>Remove all obstacles from the work area beforehand.

- > Start cleaning from the farthest point to avoid contaminating the cleaned area.
- > Choose a cleaning route that is as straight as possible.
- Divide a large area to be cleaned into several small parallel square areas. If necessary, wipe dry with a mop or rag in areas that the floor scrubber cannot reach.

Start Working

*—

- Refer to the battery installation method and install the battery connection plug.
- Put down the brush plate base;

Product Instructions

2. Turn on the main power switch
3. Power on

- Press the water pump switch knob (①), and water will start to flow

- Press the water suction motor button  brush button 

- Adjust the speed knob on the back side of the handle as needed



4. Check regularly whether the water in the clean water tank flows to the floor brush. If there is no water, add water to the clean water tank.

→ During cleaning, please check the cleaning effect. Pull up or push down the drain valve to adjust the water volume as needed.

- Adjust the working pressure of the floor brush by turning the knob with the number in the diagram. The knob can be seen by uncovering the wastewater tank. Turn it clockwise to increase the pressure and counterclockwise to decrease the pressure.

Warn!!

Please empty the sewage tank every time you fill the clean water tank, and turn off the main power switch when parking the scrubber.

> Move the floor scrubber to a corner, turn off the water pump buttons one by one, continue to clean forward for about one meter, then turn off the brush motor button; let the water suction motor continue to work for 10 seconds to absorb the dirty water in the squeegee, and then press the water suction motor switch button to stop the water suction motor.

Press the brush motor button; let the water suction motor continue to work for 10 seconds to suck out the dirty water in the squeegee, and then press the water suction motor switch button to stop the water suction motor.

> Lift the brush plate base to prevent the floor brush or needle plate from being pressed for a long time to avoid deformation.

- Empty and clean the wastewater tank;

Warn!!

This machine uses lithium batteries. Please choose the appropriate charger according to your needs.

6.8 Some useful tips

Important Information!

In some places with particularly stubborn stains, cleaning and water absorption can be divided into two stages.

6.8.1 Pre-cleaning: For dirty floors, pre-cleaning can be performed as follows:

- 1) Add detergent to the clean water tank and defoamer to the sewage tank as required;
- 2) Press the water pump switch  Press the brush button Start scrubbing the floor
- 3) Start cleaning. When cleaning some particularly dirty areas, you can let the machine stay there for a while so that the detergent has more time to separate the dirt and the floor brush can produce a better scrubbing effect.

6.8.2 Drying and sucking up the sewage on the ground:

Press the water suction motor button, start the water suction motor, blot the area you just cleaned. This will ensure a thorough cleaning and will take less time for future routine cleaning.

> To clean and absorb water at the same time, press the brush plate + water absorption motor button at the same time.

6.9 Emptying the waste water tank

Danger !!!

Wear appropriate personal protective equipment. Disconnect the machine from the power supply before emptying the waste water tank.

To empty the recovery tank:

> Move the machine to an area where the water can be drained.

> After picking up the clean water tank, remove the sewage tank, open the sewage tank plug, empty the sewage tank and clean it, press the sewage tank plug back into the sewage tank, and then you can start cleaning again.

6.10 Emptying the solution tank

Warn!!

Wear appropriate personal protective equipment. Disconnect the machine from the power supply before emptying the waste water tank.

7. Storage of the machine

If the machine is not to be used for a long time, please clean it and store it in a dry place. When storing the machine, lift the brush base, make sure the water tank and sewage tank have been emptied and cleaned, and disconnect the power supply of the machine.

- > Please unplug the battery plug from the socket on the machine.
- > The battery must be fully charged before storage. When stored for a long time, the battery must be charged regularly (at least once every two months) to maintain the battery power. If the battery is not charged regularly, it may cause irreparable damage to the battery.

8. Battery maintenance and charging

Danger !!!

Do not use the ignition method to determine the polarity of the battery.

Batteries emit flammable gases. Please extinguish the flame before checking the battery or adding battery fluid.

Perform battery maintenance in a well-ventilated area.

To avoid battery damage, please do not over-discharge the battery. Remember to charge the battery as soon as possible when the battery power display is lower than 20%.

8.1 Charging

Plug the charger connector into the socket on the device to start charging.

Refer to the charger manual to charge the battery.

After charging is complete, disconnect the battery from the charger.

9. Maintenance Instructions

Danger !!!

Please disconnect the power supply of the machine before maintaining it.

Please unplug the battery plug from the socket on the machine.

Except for the parts clearly described in this manual, all electrical maintenance and repair work must be performed by professionals.

9.1 Maintenance - General

Regular maintenance of the machine according to the manufacturer's instructions can improve machine performance and extend machine life. When cleaning the machine, pay attention to the following:

Do not use a high-pressure water gun to prevent water from penetrating into the circuit board or motor and causing a short circuit.

>Do not use steam as this may warp the plastic parts of the machine.

>Do not use saturants or solvents as they may damage the hood or rubber parts.

9.2 Daily Maintenance:

Warn!!

Wear protective gloves when coming into contact with liquids that may harm the human body.

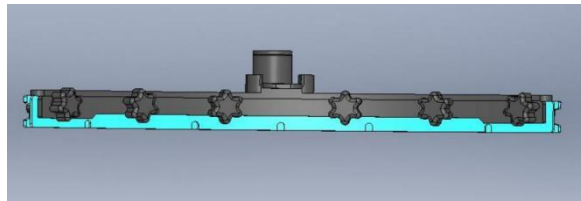
- 1) Loosen the locking knob of the sewage tank and remove the sewage tank;
- 2) Remove the sewage tank, open the upper cover of the sewage tank, and use a water pipe to directly clean the sediment in the sewage tank until it is clean.
- 3) Clean the filter with tap water or clean water from the water tank.
- 4) After it is completely dry, install the water tank back onto the bracket. Replace the waste water tank cover.

9.3 Cleaning of the filter screen of the fresh water tank:

- 1) Pull the fresh water tank sideways and remove it.
- 2) Clean the filter with tap water or clean water from the clean water tank.
- 3) Replace the clean water tank.

9.4 Replacement of water-absorbing rubber strips:

The function of the water-absorbing rubber strip is to collect sewage on the ground to achieve initial ground drying. Over time, the edges and corners of the rubber strip in contact with the ground will wear and become round, and the water absorption effect will be reduced. At this time, the water-absorbing rubber strip needs to be replaced.



Replace or change the absorbent strip:

- 1) Pull out the suction hose from the squeegee;
- 2) Loosen the six knobs on the inside of the squeegee and remove the squeegee pressure plate from the squeegee mounting bracket;
- 3) Loosen the lock of the water-absorbing rubber strip pressure strip;
- 4) Pull the rubber strip out of the water-absorbing scraper and remove the water-absorbing rubber strip
- 5) Replace the new rubber strip and install it on the water-absorbing scraper;

6) Align the rubber strip with the screws on the water-absorbing scraper frame and push it inward.

7) Tighten the rubber strip locking knob.

9.6 Daily Maintenance

9.6.1 Daily Maintenance

After completing daily cleaning, please do the following maintenance:

> Disconnect the machine from the power source.

>Empty and clean the recovery tank.

> Clean the absorbent strips and check for wear. Replace with new strips if necessary.

>Check the squeegee suction port for blockage. Clean out any debris inside.

> Charge the battery as described.

9.6.2 Weekly Maintenance

>Clean the float switch in the wastewater tank to make sure it is functioning properly.

>Clean the filter of the suction motor and check for damage. Replace if necessary.

Clean the filter with clean water in the clean water tank. Check for damage. Replace if necessary.

Clean the water inlet.

>Clean the fresh water tank and the waste water tank.

>Charge the battery regularly!

9.6.3 Half-Year Maintenance

Have the circuit checked by a professional.

10. Troubleshooting

10.1 How to solve possible problems

[MB]= Battery Machine

Fault	Reason	Solution
The machine does not respond	[MB]=The battery plug is not connected.	[MB]=Connect the battery plug to the socket on the machine body.
	[MB]=The battery is low.	[MB]=Charge the battery.
	[ME]=The machine is not connected to outside AC power.	[MB]=Plug the machine's power plug into an AC outlet.
The brush does not rotate	[MB]=The brush motor switch is not turned on.	Press the brush motor switch button
	[MB]=The brush switch is not activated.	Press the brush switch.
	[MB]=The main power switch is not turned on.	Turn on the main power switch
	[MB]=The brush motor overheated and the protector cut off the circuit.	Turn off the disc motor switch and let the machine cool down for more than 45 minutes.
	[MB]=The power supply is disconnected or the motor thermal protector is tripped.	Reconnect the power supply or motor thermal protection connection.
		Reconnect power to the motor.
	[MB]=The battery is low.	Charge the battery.
	The reduction gearbox is damaged.	Replace the reduction gearbox.
The machine is working unbalanced	The brush motor is damaged.	Replace the motor.
	The brush plate or scouring pad is worn.	Replace the tray or cleaning pad.
	The water pump switch is not turned on;	Turn on the water pump switch.
	There is no water in the solution tank.	Fill the solution tank with water.
No clean water supply	The clean water pipe is clogged.	Clear the clogged water pipe.
	Drain valve is clogged or damaged	Loosen the screws, clear the blockage or replace the drain valve.
Unable to stop the flow of clean water	The check valve of the fresh water tank is damaged.	Replace the solution tank check valve.

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The water suction motor does not work	The water suction motor switch is in the "0" position, or the main power switch is not turned on.	Turn on the main power switch and press the water suction motor switch button.
	The water suction motor is not connected to the power supply or the motor is damaged.	Connect the water suction motor to the power supply or replace the motor.
	[MB]=The water suction motor fuse is blown.	Replace the fuse.
Water absorption effect is not ideal	The edges where the rubber strip contacts the ground are worn.	Replace the adhesive strip.
	The squeegee or pipe is clogged or damaged.	Clear blockages and repair damage.
	The wastewater tank is full and the float switch is triggered. The float switch is dirty or broken.	Empty the waste water tank and clean the float switch.
	The suction pipe is clogged.	Clear the blockage.
	The suction hose is not connected to the squeegee or is damaged.	Connect the suction hose to the squeegee or repair any damage.
	The water suction motor switch is not connected to the power supply or the motor is damaged.	Connect the water suction motor to the power supply, check whether the fuse is blown or replace the motor.
	The brush motor or drive motor is not powered, or the motor is damaged.	Press the brush motor switch to the "-" position and lift the operating lever; Check that the brush motor or drive motor is correctly connected to the power supply; replace the motor.
The machine cannot move forward	The reduction gearbox is damaged (so the floor brush does not rotate)	Replace the reduction gearbox.
	The brush motor overheated and the protector cut off the circuit.	Release the operating lever and turn off the brush motor switch. Allow the machine to cool for more than 45 minutes.
The machine deflects when moving forward	[MB]=The battery is low.	Charge the battery.
	The direction adjustment knob must be adjusted according to the ground conditions	Adjust the rotation direction adjustment knob to adjust the direction of the machine.
	One of the brush motors may not be working.	Troubleshoot and resolve the problem of the brush motor not working.
The battery has not reached the normal working time	Battery terminal oxidation	Clean the terminals, apply butter, and charge.
	Battery water level low	Add distilled water to the battery
	The battery charger does not work or is not suitable	See charger instructions
	There are big differences between the battery compartments	Replace the battery
	Excessive brush pressure is used during operation	Reduce brush pressure
The battery discharges too quickly during operation, even when it is charged normally and tested with a hydrometer to find that the battery cells are charged evenly.	The battery is new and not yet in its best condition.	A new battery must be charged and discharged 20 to 30 times before it can reach its best condition
	The battery is continuously operating at the highest capacity and the working time is insufficient.	Replace the battery with a higher capacity one
	The battery water evaporates and cannot cover the battery plates	Add distilled water to cover the plates and recharge
The battery discharges too quickly during operation and is charged too quickly. After charging, the battery has a normal voltage (2. 14V in each compartment without load). However, when tested with a liquid hydrometer, it was found that the battery compartments were not charged evenly.	The battery has been left full of water for too long without being charged. This may happen when you use it for the first time.	If normal charging does not work, try double charging: Slow charge the battery for 10 hours with a current of 1/10 of the battery capacity at a 5-hour rate (e.g. a 100Ah(5) battery must be charged at 10A, manually); Rest for 1 hour; Charge with normal charging method.

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After charging, the battery does not reach the normal voltage (2. 14V without load in each compartment)	The battery is not connected to the charger (for example, the charger plug is incorrectly connected to the main body socket)	Connect the battery plug to the charger plug.
	The charger does not match the external power supply	Check the electrical parameters of the charger and external power supply
	The charger is not installed correctly	Check whether the primary voltage of the charger is correct (refer to the charger manual)
	Charger not working	Make sure there is power going to the charger, the fuse is not blown, and current is reaching the battery.
	One or more battery compartments are damaged	Replace the damaged compartment, or replace the entire battery

11. After-sales service

Warranty Conditions

1. The warranty period is one year from the date the user purchases this product;
2. During the warranty period, this card and invoice or delivery note must be presented for warranty; the user must understand the manual and safety instructions;
3. The user must understand the manual and safety instructions;
4. During the warranty period, the warranty does not cover wearing parts and man-made damage;
5. During the operation process, the motor burns out and the inverter is damaged due to abnormal voltage. It is not covered by the warranty;
6. During the warranty period, if the product is not used in accordance with the operating instructions or dismantled by itself, it is not covered by the warranty. If repairs are required, the material cost will be charged;
7. The buyer can go to the designated location of the seller for repair, or send the machine back to the repair center for repair.

Dear user, thank you for purchasing our company's products. In order to protect your rights, please fill out the warranty card and stamp it with the distributor to be valid. Finally, send the receipt column back to our company. Thank you!

Maintenance Records

Serial Number	Maintenance Date	Maintenance Items	Maintenance Unit	Inspector
1				
2				
3				
4				

In order to let our after-sales service staff clearly understand the spare parts you need so as to provide you with better service, please provide the following information each time you order spare parts:

Machine Model:

> Aircraft serial number listed on the label:

> List of parts ordered, including part name and reference number:

>Part code from parts manual:

> Quantity ordered: