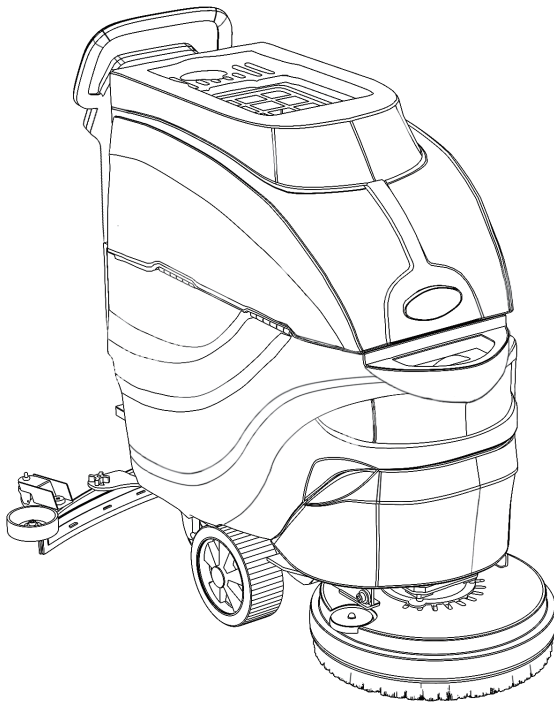




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## FLOOR SCRUBBER A1



# USER MANUAL

Please read this user manual before usage, and keep it for easy reference.

# USER MANUAL

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## WARNING!

- Minors are strictly prohibited from using the machine.
- Do not use the machine as a means of transportation.
- Do not use any acidic or alkaline solution that can damage the machine.
- The working humidity range of the machine is 30%–95%.
- It is strictly prohibited to inhale the following substances: flammable liquids (e.g., gasoline, fuel oil, etc.), flammable gases, dry dust, acidic or dissolved substances, burning or hot objects.
- In case of fire, please use dry powder fire extinguisher, and strictly prohibit the use of water to extinguish the fire.
- Do not exceed the specified climbing angle of the machine, when working in areas with small gradients, it is forbidden to use the machine horizontally. Do not drive backwards. When traveling along a slope, the zdisc brush and suction rake up.
- Use only original factory supplied accessories and spare parts to ensure safe operation of the machine.
- Always disconnect the battery cable when servicing or repairing.
- When using the machine in special environments (e.g. pharmaceutical industry, hospitals, chemical industry), safety standards and regulations must be strictly adhered to.
- Do not leave any tools on top of the battery as this may cause a short circuit or explosion.
- The wiring and motor of the machine have been waterproofed, but the machine should not be washed directly with high-pressure water. It is recommended to use low-pressure non-corrosive water for cleaning.
- When filling the water tank, do not remove the filling funnel to avoid debris entering the tank and causing damage to the pump or blockage of the water line.



## DANGER!

- Maintenance and Repair: Always disconnect the battery before performing any maintenance or repair procedures. Operation of the machine by untrained or unauthorized persons is strictly prohibited. Do not allow children or disabled persons to use the machine.
- Battery safety: Batteries may release explosive gases during normal operation. Keep away from sparks, open flames and incandescent materials. Keep a well-ventilated area during battery charging and keep the water tank assembly on.
- Equipment operation: Do not wear jewelry when working near electrical components. Never work under a raised machine unless it is supported by a safety stand. Do not use machine near toxic, hazardous, flammable or explosive powders, liquids and vapors.



## WARNINGS FOR USE

- Before use, make sure the frequency and voltage of the battery charger match the power supply.
- Do not pull or move the machine by the battery charger cable, and do not allow the cable to come into contact with sharp objects or hot surfaces.
- Do not charge the battery if the cable or plug is damaged.
- Do not operate the machine unattended while it is energized.
- Do not allow the machine to be used as a toy. Pay special attention to safety when using near children.
- Do not allow hair, jewelry or loose clothing to come near the moving parts of the dispenser.
- Never leave the brushes running while the machine is stationary as this may damage the floor.
- Never tamper with the machine's safety devices or nameplate.



## OPERATING INSTRUCTIONS

- Environment and storage: The machine is suitable for working and storage environments between 0°C and 40°C. The humidity range is 30% to 95%. The machine should be stored away from direct sunlight, rain and inclement weather.
- Slope Restrictions: Do not use the machine on slopes exceeding 2%.
- Fire Response: In case of fire, use a dry powder fire extinguisher, water-based fire extinguishers are prohibited.
- Periodic maintenance: Periodic maintenance needs to be performed by an authorized person or service center to ensure proper operation of the machine. Use only original spare parts and contact an authorized retailer for replacement parts.
- Cleaning and Disposal: Do not use high-pressure water or corrosive substances to clean the machine. Dispose of the machine properly by disposing of batteries and other hazardous materials and send it to a professional disposal center.



## MALFUNCTIONS AND EMERGENCIES

- If the machine malfunctions, please check whether it is caused by lack of maintenance.
- If you cannot solve the problem by yourself, please contact an authorized service center.
- When transporting the machine in a low temperature environment, please empty the water in the recycling box or hose to avoid freezing and damaging the machine. Translated with DeepL.com (free version)

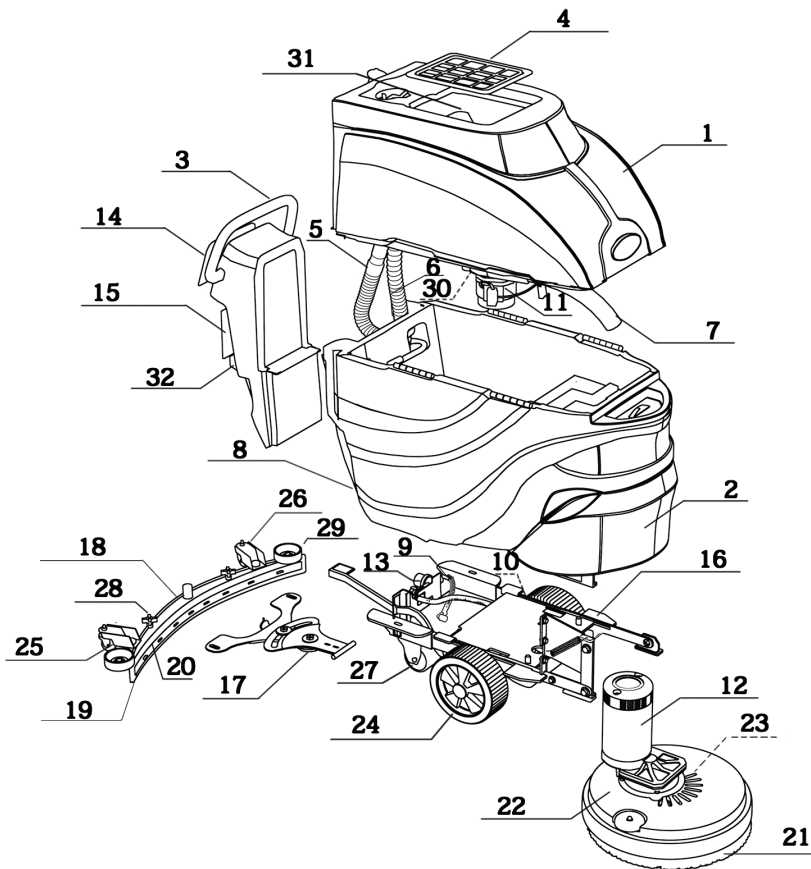
## MAIN CONTENT

### FLOOR SCRUBBER A1 MAIN PARTS DESCRIPTION



#### NOTE

The numbers in brackets refer to the components shown in Machine Description chapter.



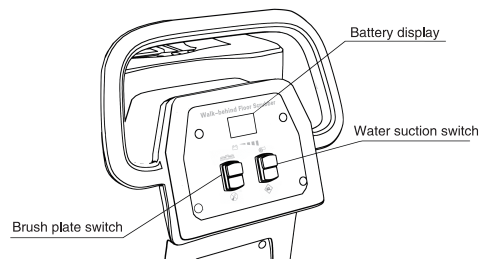
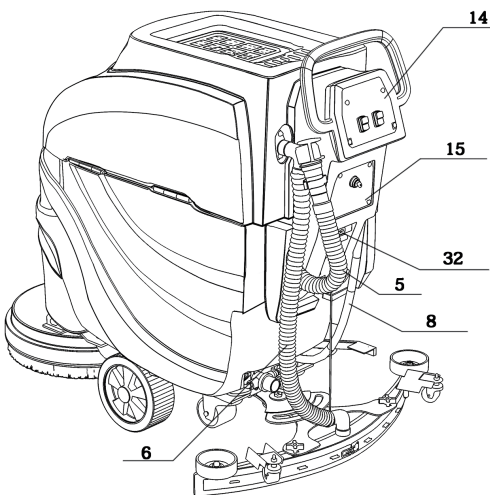
Machine structure disassembly

# USER MANUAL

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## MACHINE STRUCTURE

- |                            |                                  |
|----------------------------|----------------------------------|
| 1. Sewage tank             | 17. Squeegee kit holder          |
| 2. Solution tank           | 18. Squeegee holder              |
| 3. Control console housing | 19. Squeegee rubber              |
| 4. Tank cover              | 20. Squeegee steel frame bar set |
| 5. Dain hose               | 21. Brush                        |
| 6. Vacuum hose             | 22. Brush cover                  |
| 7. Air duct                | 23. Flange                       |
| 8. Water level hose        | 24. Wheel                        |
| 9. Steel wire hose         | 25. Universal wheel 2'           |
| 10. Solenoid valve         | 26. Universal wheel holder       |
| 11. Vacuum motor           | 27. Universal wheel 3'           |
| 12. Brush motor            | 28. Nut                          |
| 13. Filter                 | 29. Anti-collision wheel         |
| 14. Operation panel        | 30. Vacuum motor cover           |
| 15. Key panel              | 31. Float cage                   |
| 16. Chassis                | 32. Handle kit                   |



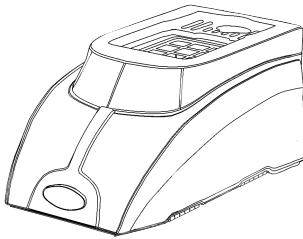


# USER MANUAL

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## MACHINE STRUCTURE –DESCRIPTION

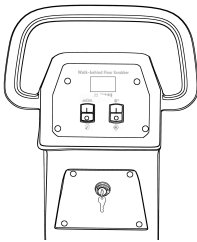
### SEWAGE TANK



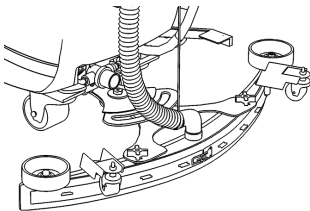
- The large–capacity water tank design ensures working efficiency, and the water float device is placed in it to better protect the vacuum motor. Check before use:

- ① Ensure that the sewage tank cover is tight.
- ② Ensure the cover of drain hose is tight.
- ③ Ensure the cover of drain hose is tight.

### CONTROL /STARTUP PANEL

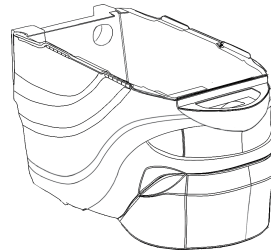


- Put the brush and squeegee down first. Then turn on the key switch and brush/vacuum switch on the control panel.

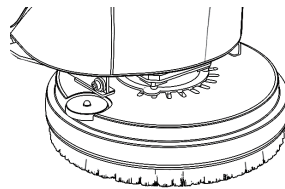


- Titanium alloy suction squeegee is strong and durable, and the natural rubber strip is wear–resistant and durable. When the machine is working, the scraping rubber of the suction squeegee is allowed to tilt slightly backward at a certain angle.

### SOLUTION TANK



- Sandwich design, the inner wall of the box is hollow, and clean water is injected to save space and improve machine utilization.



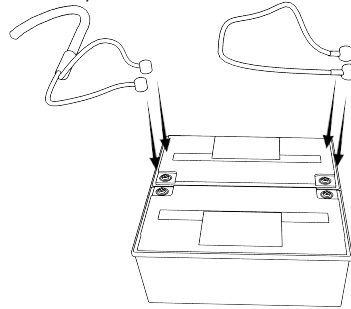
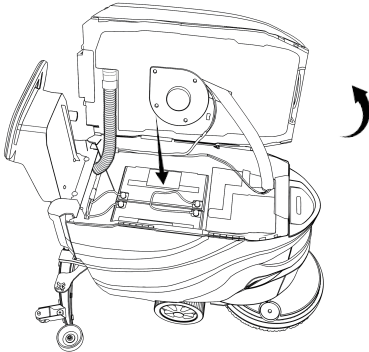
- The extra–large brush plate doubles the efficiency and needs to be rinsed after use. Check the height of the brush plate of the floor scrubber every week. If the brush is worn out or the bristles are twisted, it is best to reassemble them to avoid the different inclinations of the bristles causing the brush motor to overload and vibrate too much.

# USER MANUAL

## INSTALLATION AND OPERATION

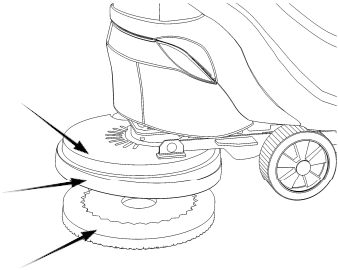
### STEP 1

Open the sewage tank cover and put in the battery. Connect the power cord as shown in the picture.

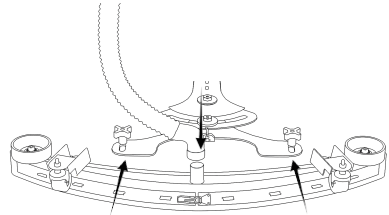


### STEP 2

Install the brush plate and guard.



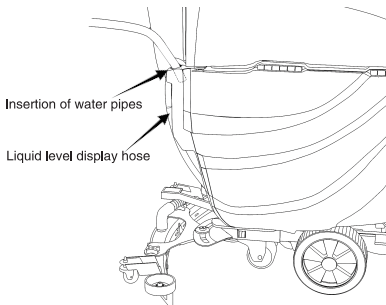
Install the squeegee kit and connect the vacuum hose.



### STEP 3

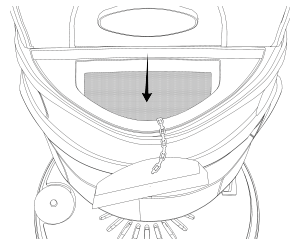
Use a hose to fill the clean water into the filling port.

(If do not have hose please buy locally.)



If you need to use detergent, add it to the filter in the picture.

(Note: The detergent must be special for the scrubber, if add detergent, the defoamer must be added into the sewage tank. Avoid foam being sucked into the vacuum motor and causing damage.)

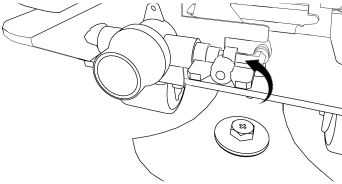


• Detergent water ratio refer to the detergent manual

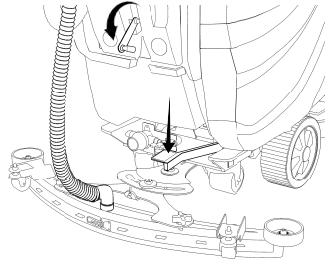
# USER MANUAL

## STEP 4

Adjust the drain valve to the right position.

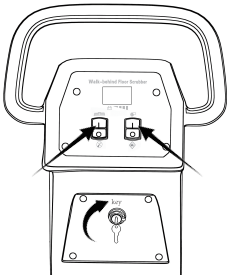


Adjust the drain valve to the right position.



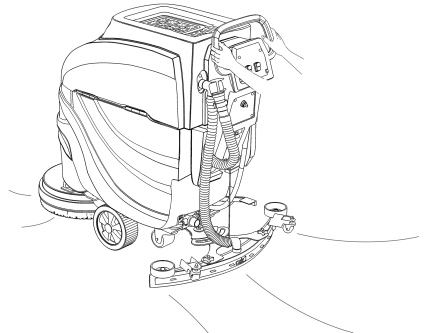
## STEP 5

Turn on the switch and press (turn on) the brush and vacuum buttons.



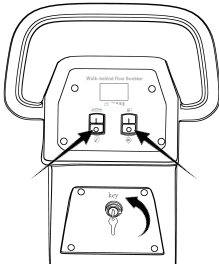
The scrubber starts working.

(Please do not use the scrubber to clean big piece of garbage, avoid blocking the suction hose and the vacuum motor is broken due to excessive load.)

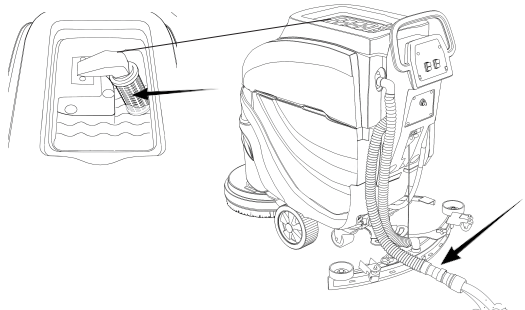


## STEP 6

Press (turn off) the brush and vacuum buttons and turn off the switch, cleaning finished.



After each cleaning, discharge the sewage and clean the sewage tank. The water level of the sewage tank shall not exceed the shown position.



# USER MANUAL

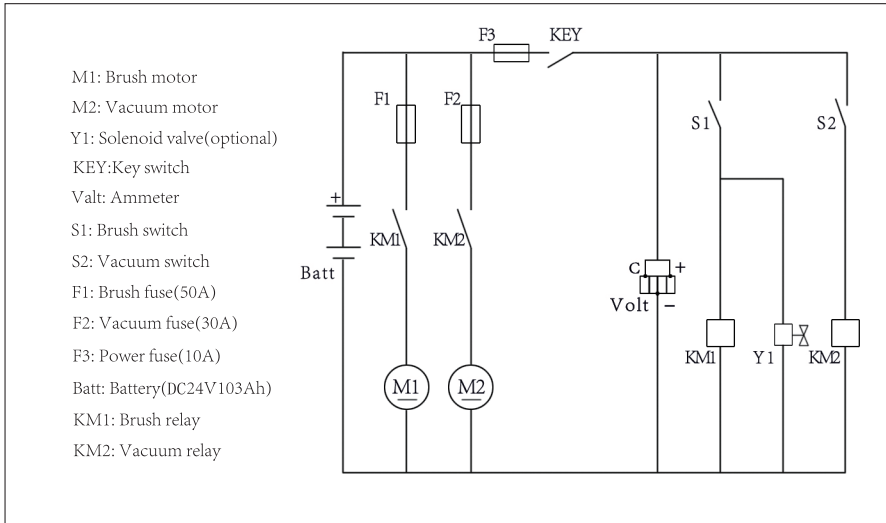
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## PRODUCT PARAMETERS

Name	Unit	Numerical Value
Working Voltage	V	24
Brush disk motor power	W	500
Vacuum motor power	W	500
Total power	W	1150
Cleaning width	mm	530
Squeegee width	mm	780
Cleaning efficiency	spm/h	2200
Brush rotation speed	Rpm	220
Fresh water tank capacity	L	55
Sewage tank capacity	L	60
Brush pressure	Kg/cm <sup>2</sup>	18-31
Noise level	dB(A)	60
Weight	kg	154
Dimension	cm	127*55*109

# USER MANUAL

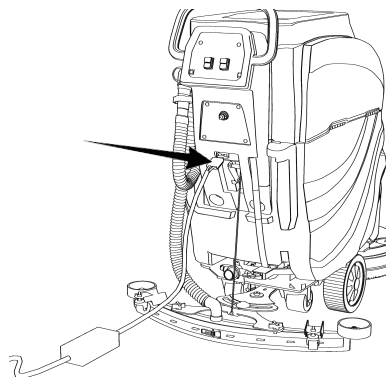
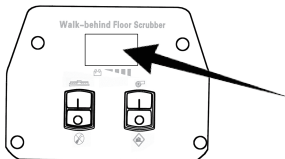
## CIRCUIT DIAGRAM



## MACHINE CARE AND MAINTENANCE

When the screen appears low battery capacity, stop working and recharge the battery, charging time 6–8 hours if the device is not used for a long time, it is recommended to recharge the battery once a month to prevent battery death.

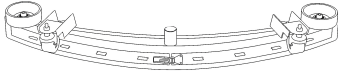
Make sure that the charger and the charging port are tightly connected and not loose.



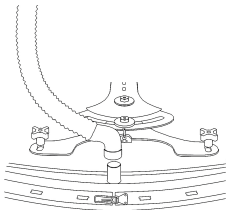
# USER MANUAL

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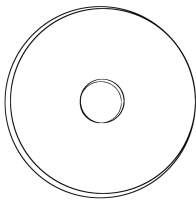
It is recommended to check and clean the squeegee rubber after working. Keep the rubber clean and replace it promptly if it is broken



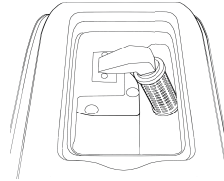
Clean the vacuum hose after the machine is used, check every 3 to 5 days. It is recommended to check the hose for clogging.



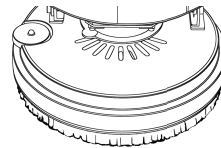
It is recommended to clean the pad after each use, every 3–5 days to check the thickness of the pad. Pad thickness  $\geq 1/4$  of the total thickness. For epoxy / paint / PVC and other soft floors, the use of the pad must be used with the pad holder



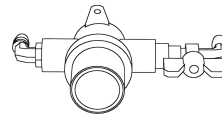
Clean the sewage tank in time after the machine is used. Check the float cage.



It is recommended to clean the brush after each use. It is recommended to check the height of the brush from the ground every week, and every two months. It is recommended to check the length of the brush hair length  $\geq 1.5\text{cm}$ .



If water does not flow, check the water drain valve. If the screw is loose, tighten it



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Please follow the instructions in this manual to use the product properly, ensuring that the machine does not malfunction and disrupt the cleaning process.