



C16 Floor Scrubber Instruction Manual

We aim to provide safer, higher-end and more user-friendly cleaning equipment with the help of the newest technology and innovative ideas.

Preface

This instruction manual contains all the information that you need to use and maintain the machine. Please read it carefully before getting started.

This instruction manual is an important part of the product and should be kept together with the machine.

In order to ensure your safety, the following instructions must be followed when operating the machine and performing maintenance:

-  Do NOT use the machine after drinking or taking medicine.
-  Turn off the machine before any maintenance or repair.
-  The machine can only be used by trained and competent personnel; children and disabled people are forbidden to use it.
-  Keep the batteries away from sparks, flame and smoke.
-  Do NOT use the machine in places with flammable or explosive liquids, gases and vapor.
-  When operating the machine, do NOT wear loose clothing, and keep your body away from the moving parts of the machine.
-  Do NOT smoke when charging the batteries.
-  In the event of a fire, use a powder extinguisher instead of water.
-  It is crucial to give due consideration to the machine's disposal process. If any hazardous substances fail to meet the required standards, they must be transported to a designated service center for appropriate treatment.

If you have any question, complaint or suggestion, please feel free to contact us and we will be at your service with all our knowledge and enthusiasm.

We wish you a pleasant experience with our product!

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Chapter 1 General description

1.1 Suitable scenes

This product can be used in different settings, such as restaurants, schools, hospitals, factories, supermarkets, warehouses & office buildings, etc. It can clean various hard floors effectively, such as mirror tile floor, marble floor, epoxy floor, PVC floor, emery floor, terrazzo floor, concrete floor, ceramic tile, etc.

1.2 Overview of the product



① Brush plate motor switch	⑦ Brush skirt
② Suction motor switch	⑧ Anti-collision wheel
③ Sewage tank drain hose	⑨ Clean water tank
④ Sewage tank	⑩ Clean water tank inlet
⑤ Main wheel	⑪ Water valve switch
⑥ Squeegee	⑫ Main power switch

1.3 List of accessories

When you receive the product, check whether all of the following items are presented. Contact us if there is any part missing.

Item	Number
Scrubber	1
Charger	1
Squeegee	1
Instruction manual	1
Warranty card	1

1.4 Consumables and optional items

- ⌚ Consumables/Wearables refer to accessories that will wear out gradually and need to be replaced when they cannot perform.
- ⌚ You can purchase these wearable parts on our website:<https://www.crystalfloorscrubber.com/frequently-bought-accessories>

Consumables
Brush plate
Rubber
Needle plate
Scouring pad (red)
Scouring pad (black)
Scouring pad (white)

Chapter 2 Unloading and assembling the machine

2.1 Unloading the machine

- ⌚ Remove the packaging carefully to avoid damaging the machine.
- ⌚ We recommend that you keep the packaging of the product because it can be used again if you need to repair or transport the machine.

2.2 Assembling the machine

2.2.1 Installing the squeegee

- ⌚ Press down the handle of the machine so that it tilts backward where you can see the position of the squeegee (behind the brush).
- ⌚ Pass the squeegee fixing screws through the holes of the squeegee holder, and tighten them with plastic knobs.



2.2.2 Installing the sewage drain hose

- ⌚ Remove the cover of the sewage tank and insert the sewage suction hose.
- ⌚ Insert the conical mouth of the suction hose into the hole of the sewage tank, and the other end into the suction port of the squeegee.



2.2.3 Brush / scouring pad Installation

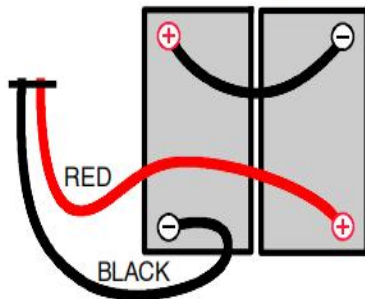
FOR SAFETY: Before you leave or perform any servicing on the machine, please turn off the machine and ensure it is positioned on a flat and even surface.

1. Adjust the angle of the steering handle.
2. Lower the steering handle to raise the brush plate.
3. When installing the brush plate, make sure that the flange plate is aligned with the holes on the brush plate, and rotate clockwise to finish the installation.



2.2.4 Connecting the battery cords

- ③ Drain the sewage tank if needed.
- ③ Carefully remove the sewage tank and check whether all the cables on the batteries are connected and tightened.
- ③ Connect the battery poles. Pay attention to the positive and negative terminals.
- ③ Put the sewage tank back to its original position.



Chapter 3 Checks and adjustments before using the machine

3.1 Check items

3.1.1 Checking the water volume in the clean water tank

- ⌚ Make sure that there is sufficient water in the clean water tank before work. Do NOT do the cleaning without enough water, or dust may be sucked into the suction motor leading to loud noise and low working efficiency.

3.1.2 Checking the water level in the sewage tank

- ⌚ Pay special attention to the water level in the sewage tank. When the White floating piece are in the highest position, drain the sewage tank immediately or the suction motor will be burned.



3.1.3 Checking the voltage of the batteries

- ⌚ When the general switch is turned on, the current voltage of the batteries will be displayed on the voltmeter. If the last bar of the voltmeter is flashing, the power is insufficient and please charge the batteries immediately.
- ⌚ Note that deep discharging (e.g. frequently using the machine when the voltage is lower than 21 V) will reduce the service life of the batteries.

3.1.4 Checking the degree of wear of the brush plate

- ⌚ Check regularly whether the brush plate is worn. If the wear is mild, you can unscrew the screws on the brush plate and increase the number of gaskets to lower the height of the brush. Replace the brush when it cannot perform properly or before it could scratch the floor because it's severely worn out.



3.1.5 Checking the degree of wear of the rubber

- ⌚ The rubber needs to be replaced if it's worn out or cut.
- ⌚ If the rubber cannot create an air tight situation when it's touching the floor, the suction effect will not be satisfactory.

Chapter 4 Instructions on operating the machine

4.1 Moving the machine

- ⌚ When the general switch is turned off, you can push the machine forward after the brush plate and the squeegee are lifted.
- ⌚ When the general switch is turned on, you can push the machine forward when the brush plate and the squeegee are lowered and started.
- ⌚ If you need to pull the machine backward, make sure that the squeegee is lifted or the strip and the sheet metal will be deformed.

4.2 Scrubbing the floor

- ⌚ Grasp the handle firmly and adjust it to your desired angle before starting the cleaning job.
- ⌚ Turn on the key switch.
- ⌚ Press the water suction motor switch button.
- ⌚ Press the brush disc motor switch button.

Note: when the brush plate motor is turned on, do NOT leave the machine in the same place for a long time or it would leave unnecessary marks on the ground.



4.3 Drain sewage

- ⌚ Before draining the sewage tank, stop the machine and turn off the main power.
- ⌚ Put down the sewage drain hose, open the cap and drain the sewage.
- ⌚ Rinse the sewage tank with clean water.



4.4 Stopping the machine

- ⊗ When the work is finished, turn off the brush plate button.
- ⊗ Turn off the suction motor.
- ⊗ Drain the sewage tank.
- ⊗ Move the machine to an appropriate storage place.
- ⊗ Turn off the general switch and remove the key.

Note: If the machine is not going to be used for an extended period, please fully charge the batteries and disconnect the battery cords to prevent power loss. The batteries need to be charged regularly once a month to avoid deep discharging which would result in battery failure.

4.5 Charging the batteries

Note: the machine is powered by two 12 V maintenance-free lead-acid batteries and the total system voltage is 24 V.

- ⊗ The total voltage of the batteries will gradually decrease during the work. When the last bar of the voltmeter is flashing, the machine is running out of power and charge the batteries immediately.
- ⊗ When maintaining the batteries, please wear gloves to avoid contact with acid substances.
- ⊗ Check whether the battery cords are worn and the connecting parts are loose, and replace them when necessary.

- ⌚ Keep the batteries dry and clean and make sure that there are no dust on them, since it is extremely harmful to the batteries and may even cause them to burn in severe cases. Do NOT put any object (especially metallic object) on the batteries either.
- ⌚ In order to extend the service life of the batteries, charge them immediately when the cleaning work is finished. Deep discharging is strictly forbidden for it will reduce their capacity and service life.
- ⌚ The correct steps of charging the batteries:
Connect the batteries (picture shown on P. 6). Then connect the charger to the battery before connecting the other end to the wall outlet.
- ⌚ If the machine is not about to be used within a long period of time, please fully charge the batteries and disconnect the battery cords. The batteries need to be charged regularly once a month to avoid deep discharging which would result in battery failure.



Chapter 5 Cleaning and maintenance of the machine

Regular maintenance can extend the service life of your machine.

5.1 Cleaning of the machine

- ⌚ Check the wheels regularly and remove entanglements.
- ⌚ Clean the sewage tank and the sewage drain hose with clean water regularly.
- ⌚ Clean the filter of the water valve. If you notice any dirt or particles on the transparent cover, you can unscrew the filter and wash the cover and the filter screen repeatedly.

Alert: do NOT wash the machine body with water directly since it is NOT really water-proof or the machine might be short-circuited or burned.

5.2 Maintenance of the machine

5.2.1 Replacement of the brush plate

- ⌚ Park the machine on the flat ground, Lower the steering handle to raise the brush plate.
- ⌚ Grab the bristles, gently lift the brush disc to rotate counterclockwise and shake it side to side, the brush disc will come off.
- ⌚ When installing the brush plate, make sure that the flange plate is aligned with the holes on the brush plate, and rotate clockwise to finish the installation.
- ⌚ Installation of the needle plate: add a scouring pad on the bottom of the needle plate, and install it following the instructions above. You can purchase needle plates and scouring pads from the original manufacturer.
- ⌚ Before cleaning more delicate floors, the scouring pad must be soaked in water for 10-15 minutes before use to soften it, or it might damage the ground.

5.2.2 Replacement of the rubber of the squeegee

- ⌚ Un-latch the squeegee assembly and disassemble the parts to remove and replace the rubber.



Chapter 6 Storage and transportation of the machine

6.1 Storage of the machine

- ⌚ If you do not need to use the machine for a long time, please remove and wash the squeegee and the brush plate, and store them in a dry clean place. We recommend that you store them in an airtight plastic container.
- ⌚ Make sure that the water tanks are drain and cleaned.
- ⌚ It's better to charge the battery fully before storing the machine. If you do not use the machine for a long time, charge the battery regularly (at least once a month) to keep the batteries in good condition.

6.2 Transportation of the machine

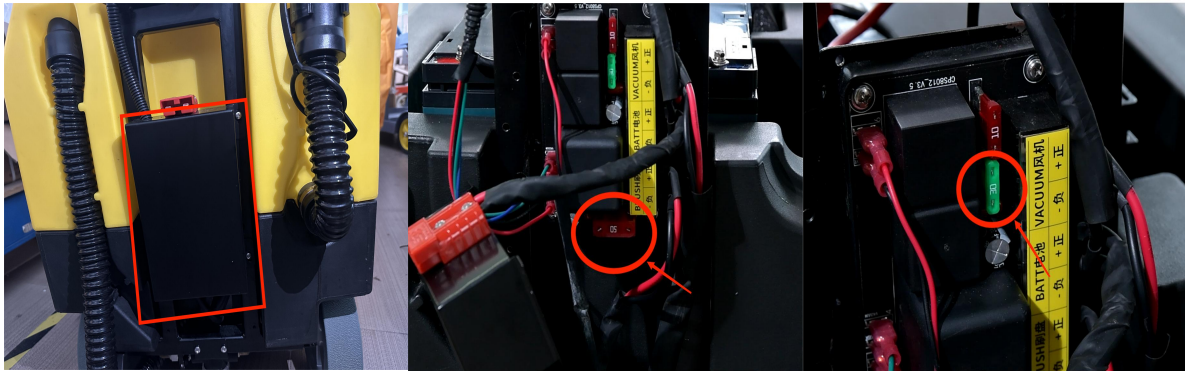
- ⌚ When lifting or lowering the machine, make sure that it is in a stable position to prevent it from tipping over or falling.
- ⌚ When the machine leaves the factory, it is fixed on a wooden pallet and carried on a transport vehicle with appropriate equipment; upon arrival at the destination, a similar setting needs to be arranged to load or unload the machine safely.
- ⌚ When using a forklift to move the machine, the forklift should move the entire box with the machine well-affixed inside it. Do NOT use a forklift to pick up the machine directly or it might damage the machine. Machine could also tip over or fall easily from the forklift and cause property damage or human injury.

Chapter 7 Common problems and solutions

The batteries cannot be charged.	The charger fails.	Replace the charger.
	The charging port is oxidized.	Replace the charging port
The suction motor does not work.	The fuse is blown.	Replace the fuse.
The brush plate motor does not work.	The fuse is blown.	Replace the fuse.
Not enough water is coming out	The clean water hose is blocked.	Clean the water hose.
	There are impurities in the filter cover.	Clean the filter cover.
	The water solenoid valve fails.	Check, clean or replace the water solenoid.
Loud noise is produced.	The squeegee is in the wrong position.	Adjust the height of the universal wheels of the squeegee.
	The suction motor is broken.	Replace the suction motor.
The brush plate	The brush plate drops often.	Re-install the brush properly
	The brush plate buckle is worn.	Replace the buckle.
The water suction efficiency is low.	The suction hose is blocked.	Clean the suction hose.
	The sealing of the sewage tank is cracked.	Replace the rubber sealant.
	The strip of the squeegee is cracked.	Replace the strip.

7.1 Replace the fuse

- ⌚ Rotate four screws to remove the black case.
- ⌚ If the brush plate motor does not work, please unplug the fuse of the brush plate motor and replace it with a new one.
- ⌚ If the suction motor does not work, please unplug the fuse of the suction motor does and replace it with a new one.



Chapter 8 After-sale services

8.1 General description

-  One-year warranty will be honored on the non-wearable parts. Users can easily purchase the wearable parts (brush, pad, needle plate/holder, squeegee rubber and etc) on our website.
-  The delivery receipt and purchase invoice are certificates for warranty and must be kept properly.

8.2 Cases not covered in the warranty

-  The operator fails to perform maintenance according to the instruction manual, resulting in damage or failure.
-  The surface and/or the structure of the machine are obviously damaged due to improper operation.
-  Disassembly or modification not approved by the original manufacturer.
-  Damage due to weather or force majeure.
-  The warranty is expired or the machine has been used for more than 1,500 hours.

Technical parameters

Model	C16
Battery capacity (V/Ah)	2*12/45
Suction motor (Hp)	0.8
Brush plate motor (Hp)	0.6
System voltage (V)	24
Brush plate width (In)	16
Squeegee width (In)	22.8
Net weight (Lb)	185
Clean water tank capacity (Gal)	7
Sewage tank capacity (Gal)	8
Package size (In)	39*21*35
Product size (In)	35*18*27
Machine with box weight (Lb)	242

Warranty Card

Property of:		Tel:	
Address:			
Date of purchase:		Delivery Date:	
Model#:			
Accessories to be replaced:			
Notes:			

