

# BTCR26 Floor Scrubber Instruction Manual

## 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!

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

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# Chapter 1 General description

## 1.1 Suitable places

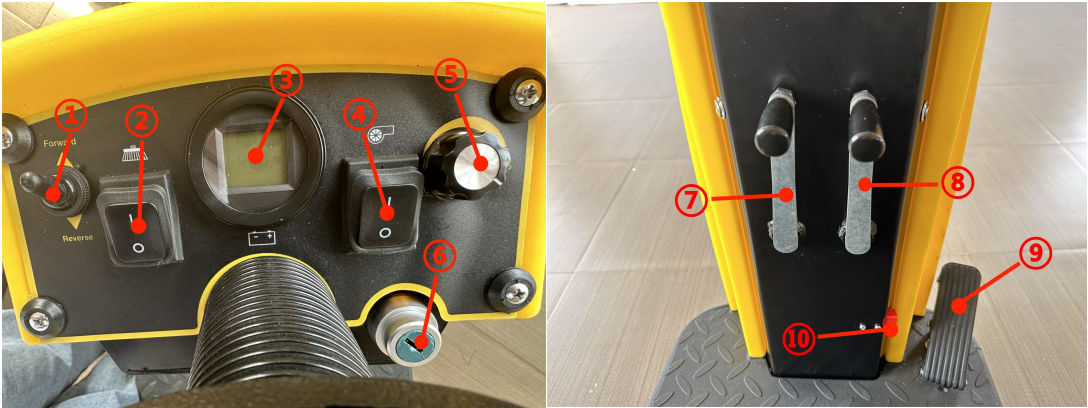
This product can be used in different settings, such as restaurants, schools, hospitals, factories, supermarkets, warehouses & office buildings, etc. It can clean various hard floors effectively, such as mirror tile floor, marble floor, epoxy floor, PVC floor, emery floor, terrazzo floor, concrete floor,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

## 1.2 Overview of the product



|    |                       |    |                                          |    |                           |
|----|-----------------------|----|------------------------------------------|----|---------------------------|
| 1  | Steering wheel        | 2  | LED lights                               | 3  | Warning light             |
| 4  | Sewage tank cover     | 5  | Sewage tank                              | 6  | Cleaning water tank inlet |
| 7  | Water level indicator | 8  | Clean water tank                         | 9  | Main wheel                |
| 10 | Squeegee assembly     | 11 | Brush skirt                              | 12 | Water valve switch        |
| 13 | Sewage hose           | 14 | Vacuum hose                              | 15 | Anti-collision wheel      |
| 16 | Fixed squeegee        | 17 | Knob to adjust the angle of the squeegee |    |                           |

## 1.3 Control panel and buttons



- 1 Forward/backward button

2 Brush motor button

3 Power display screen

4 Vacuum motor button

5 Speed dial

6 General switch
- 7 Brush plate lifting handle

8 Squeegee lifting handle

9 Accelerate Pedal

10 Charge port

1.4 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 | Item                     | Number | Item               | Number |
|---------------------|--------|--------------------------|--------|--------------------|--------|
| Brush               | 2      | Squeegee                 | 1      | Instruction manual | 1      |
| Intelligent Charger | 1      | Maintenance-free Battery | 3      | Red Pad            | 2      |
| Needle Holder       | 2      |                          |        |                    |        |

1.5 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 and optional items |                           |
|--------------------------------|---------------------------|
| Heavy Duty Brush               | White Pad (Softer)        |
| Rubber for Squeegee Assembly   | Red Pad (Medium softness) |
| Needle Holder                  | Black Pad (Harder)        |

Chapter 2 Unloading and assembling the machine

2.1 Unloading the machine

- ⌚ Remove the packaging carefully & avoid damaging the machine.
- ⌚ We recommend that you keep the packaging of the product since it can be used to transport the machine.

2.2 Assembling the machine

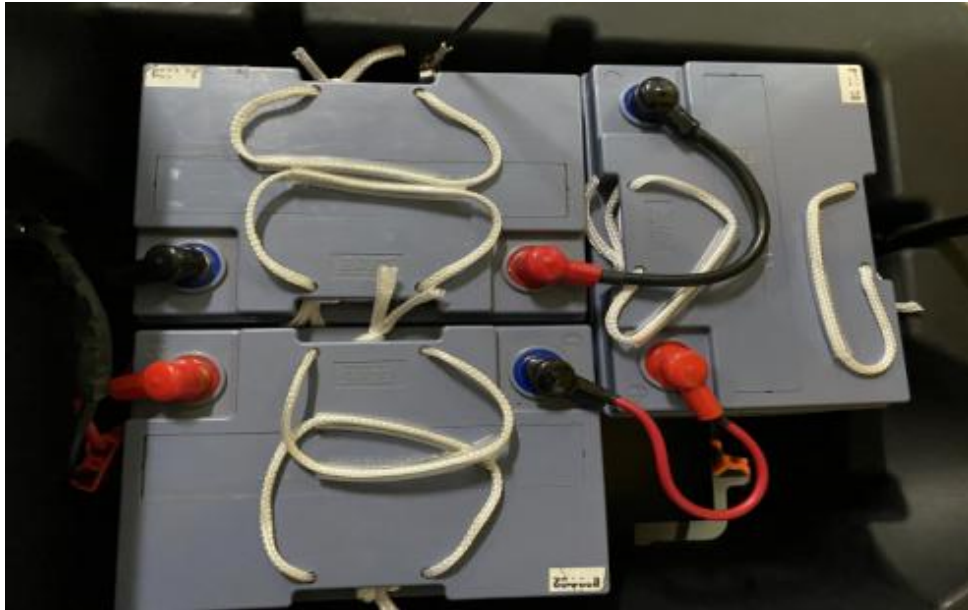
2.2.1 Installing the squeegee

- ⌚ Lower the squeegee handle to lower the part that you will be connecting to your squeegee assembly.
- ⌚ Connect the squeegee assembly with the machine and turn the two innermost knobs to keep it tightened.
- ⌚ Connect the suction hose to the squeegee assembly .



### 2.2.2 Connecting the battery cords

- ⌚ Drain the sewage tank if needed.
- ⌚ Carefully flip open the sewage tank and check whether all the cables on the batteries are connected and tightened.
- ⌚ Connect the battery poles. Pay attention to the positive and negative terminals.
- ⌚ Flip 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 floating balls are in the highest position, discharging 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 status of the brush plate

- ⌚ Check whether the brush plate is worn. If so, please replace it.



#### 3.1.5 Checking the status 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.



#### 3.2 Adjustment items

##### 3.2.1 Adjustment of the squeegee assembly

- ⌚ Put down the squeegee assembly to see whether the rubber touches the ground.
- ⌚ Push the machine gently to see whether the rubber is slightly bent and leaves no gap in between itself and the ground.
- ⌚ If there is any gap between the rubber and the ground or the rubber is pressed too tightly, turn the outermost plastic knobs/nuts on the universal wheels to adjust the height of the squeegee. It is ideal to have the rubber bent at a 45 degree angle while touching the floor to create an airtight situation for better suction effect.



## Chapter 4 Instructions on operating the machine

### 4.1 Moving the machine

- ③ Turn on the general switch.
- ③ Push the forward/backward toggle to the forward gear and step on the accelerating pedal. Machine will move forward now.
- ③ Pull the forward/backward toggle to the backward gear and step on the accelerating pedal. Machine will back up now.
- ③ If you need to stop the machine, just release the accelerating pedal so that the electromagnetic brake will work automatically and the machine will be stopped.

**Note:** when the machine is moving backward or needs to be transported, make sure that the brush plate and the squeegee are lifted, or the brush plate will be worn and the squeegee will be deformed.

### 4.2 Scrubbing the floor

- ③ Put down the brush plate and the squeegee.
- ③ Turn on the general switch.
- ③ Press the brush plate button and the suction motor button.
- ③ Put the forward/backward toggle to the forward gear, hold the steering wheel, step on the accelerating pedal and drive the machine smoothly.



**Note:**

When the brush plate motor is turned on, do NOT leave the machine in the same place for a long time, because this would leave unnecessary marks on the ground.

### 4.3 Drain sewage

- ③ Before drain the sewage tank, stop the machine and turn off the general switch.
- ③ Put down the sewage drain hose, open the cap and discharge the sewage.
- ③ Rinse the sewage tank with clean water.

### 4.4 Stopping the machine

- ③ When the work is finished, turn off the brush plate button and lift the brush plate.
- ③ Turn off the suction motor and lift the squeegee.
- ③ Drain the sewage tank.
- ③ Move the machine to an appropriate storage place.
- ③ Turn off the general switch and remove the key.

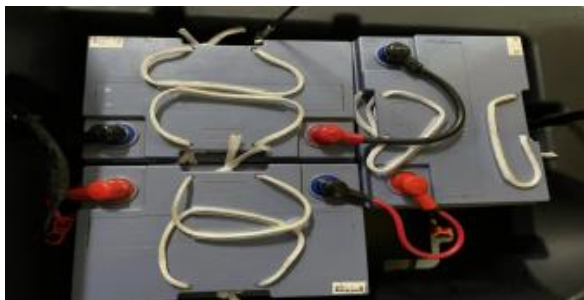


**Note:** If the machine is not going to be used for an extended period, please fully charge the batteries and disconnect the battery cords to prevent power loss. It is recommended to charge the batteries twice a month.

#### 4.5 Charging the batteries

**Note:** the machine is powered by THREE \* 8V =24 V (150 Ah) 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. Please charge the batteries immediately.
- ⌚ When dealing with the batteries, please wear gloves to avoid direct 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.
- ⌚ Please connect the external charger to the plug on the machine first (under the control panel, on the right hand side), before connecting the charger to the wall outlet.
- ⌚ If the machine will not be used for a long period of time, please fully charge the batteries, & disconnect the battery cords/lines to avoid power loss. Batteries should be charged semi-monthly 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 and put down the brush plate.
- ⌚ Pull down the brush for the magnets to detach & push up a new brush or pad on the magnetic holder for the magnets to snap on and attach to the machine.

- ⌚ Installation of the needle holder: add a pad on the bottom of the needle holder. Push down or turn the center blue cap to hold the pad in the right position before snapping it onto the bottom of the machine. You can purchase extra brush, pad, or needle holder from the original manufacturer.

Before cleaning more delicate floors, the 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 strip of the squeegee

- ⌚ Park the machine on the flat ground and make sure that it is powered-off.
- ⌚ Lower the squeegee handle to lower the squeegee. Turn the innermost knobs and take out 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 drained 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 twice 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 overload protector tripped.            | Reset the overload protector.                                                       |
| The brush plate motor does not work. | The overload protector tripped.            | Reset the overload protector.                                                       |
| 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 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 water suction efficiency is low. | The floating ball is stuck.                | Clean the debris near the floating ball and shake it a little to get the ball down. |
|                                      | 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.                                                                  |

## 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 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 listed in this instruction manual.



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

| Category               | Parameter | Category                     | Parameter |
|------------------------|-----------|------------------------------|-----------|
| Brush diameter (In)    | 2*13=26   | Clean water tank (Gal)       | 27        |
| Squeegee width (In)    | 39        | Sewage tank (Gal)            | 30        |
| Cleaning width (In)    | 26        | Battery capacity (V/AH)      | 3*8/150   |
| Max moving speed (mph) | 0 - 3.1   | Net weight (Lb)              | 547       |
| Brush motor (Hp)       | 0.4*2     | Machine with box weight (Lb) | 679       |
| Suction motor (Hp)     | 0.67      | Product size (IN)            | 55*27*43  |
| Driver Motor (Hp)      | 0.67      | Package size (IN)            | 59*28*51  |

# Warranty Card

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