
Floor Sweeper CSR43

User Manual



The picture is for reference only, please refer to the actual product.

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2.1 Foreword

Please read this manual carefully before using your sweeper to become familiar with it. It contains helpful information about the sweeper's technical features to enhance your cleaning experience. This manual also outlines the warranty responsibilities of our company and your rights and obligations regarding after-sales service. Reading this manual is essential for the safe operation, road safety, and proper maintenance of the sweeper.

All information in this manual is current at the time of printing. Our company reserves the right to improve product functionality and design to adapt to various user scenarios and may make changes without prior notice.

We wish you a pleasant experience with your sweeper!

2.2 Statement

Important Notes :

- ◆ Our company retains exclusive authority over the revision and interpreting of this User Manual. We reserve the right to issue updates for product improvements after this manual is printed. Some images in this manual are for reference only. In case of any discrepancy between images and the actual product, the actual product shall prevail.
- ◆ Please keep this manual with the sweeper for easy reference. This manual is an important part of the product documentation.
- ◆ If the product malfunctions during use, please contact our company. Do not disassemble the sweeper yourself. Unauthorized disassembly may lead to unpredictable consequences for which you will be responsible.
- ◆ Only use genuine replacement parts from our company. Using non-approved parts will void the warranty, and you will be responsible for any resulting issues.
- ◆ The machine model is on the product label. This information is crucial when ordering parts.
- ◆ If anything in this manual is unclear, our company will provide further explanation. We welcome your valuable feedback.

3 Disposal Of Used Equipment



Note:

Used equipment contains valuable materials and should be recycled properly. We recommend working with a certified waste management company for disposal.

3.1 Symbols In The Manual Or On The Machine



DANGER !

This symbol indicates a hazardous situation that could result in serious injury or death to the operator.



ELECTRICAL HAZARD WARNING !

This symbol indicates a hazard that could cause electric shock or injury.



CAUTION !

This symbol points to important notes, warnings, or useful tips. Pay special attention to text marked with this symbol.



WARNING:

This manual must be read before operating the sweeper. This symbol warns the user of a potentially dangerous operation.

Important Notes/Reminders:



Do not disassemble or attempt to repair the machine yourself.



Do not replace the power cord yourself.



For AC power supply, use a three-prong cable with a proper ground connection.



Do not use or store the charger in environments where it may get wet.



Ensure the DC plug and socket are connected firmly and securely. Loose connection might cause fire and damage by creating high resistance, leading to overheating, arcing, and sparks. Replace the plug or socket if damaged.



Unplug the charger immediately if you notice any abnormal sounds or smells while it is operating.



For repairs, please contact our company for prompt service.



Do not extend or replace the output cable.



Do not block the charger's air vents.



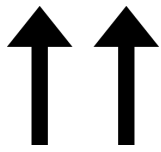
Always disconnect the power cord and charging plug before moving the charger.



Use only the battery and charger designed for this model.



To avoid damaging the charging cable, do not pull, twist or put stress on it.



Correct Placement



Keep Dry



Do Not Disassemble

4 General Safety Instructions



DANGER!

- ◆ Before any maintenance or repair, turn off the power and remove the key from the main switch.
- ◆ This machine must be operated only by trained personnel. Do not allow children, individuals with disabilities, or untrained persons to use it.
- ◆ Keep batteries away from sparks, open flames, and flammable materials.
- ◆ Do not wear loose clothing or accessories while operating the machine.
- ◆ Do not use in areas with flammable, explosive gases, liquids, or vapors.
- ◆ Charge the batteries in a well-ventilated area, and away from any flammable chemical or ignition sources.
- ◆ This machine is designed solely for cleaning floors. Using it for others purposes voids our responsibility.
- ◆ This machine cleans dust and fine particles. Ensure large debris, such as stones or plastic wrappers, is removed before use to prevent system blockages or motor damage.
- ◆ Do not operate under the influence of alcohol or exceed safe speed.
- ◆ There is a risk of tipping when driving on steep slopes or turning at high speeds.
- ◆ Keep unauthorized persons away from the machine when it is stopped or parked.

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- ◆ For optimal cleaning results, keep the moving speed below 3 mph(5km/h).
 - ◆ Ensure the batteries are charged in a ventilated area. Recharge as soon as the battery is in low-voltage mode to maximize battery life. When the battery meter on the control panel is showing less than 2 bars, charge the battery immediately.
 - ◆ Remove the key when work is finished to prevent unauthorized use.
 - ◆ Do not operate the machine outdoors in the rain.



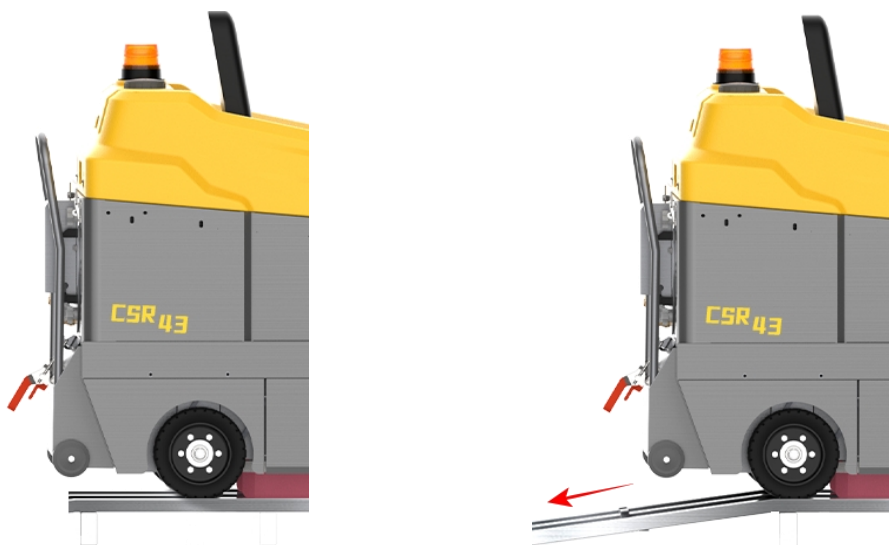
WARNING! Please follow these guidelines:

- ◆ Read the operation and service instructions carefully before any maintenance.
- ◆ Keep loose clothing, hair, fingers and body parts away from air vents and moving parts.
- ◆ Do not smoke while the battery is charging.
- ◆ When connecting the charger, ensure the mains voltage and frequency match the specifications on the nameplate.
- ◆ Do not use a damaged charger. If the machine is damaged or gets wet, contact our service center.
- ◆ Do not pull the machine by the charger cord or use the cord as a handle. Avoid pinching or scraping the cord.
- ◆ Keep the charger cord away from hot surfaces.
- ◆ To prevent fire, shock, or injury, unplug the machine when not in use.
- ◆ Store the machine indoors in a cool, dry and flat place.

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- ◆ This machine is not a toy. Keep children and unauthorized people away from the operating area.
 - ◆ Operate the machine only as described in this manual using approved accessories.
 - ◆ Remove the key when the machine is parked.
 - ◆ Do not drive on slopes steeper than 17 degrees.
 - ◆ Do not clean the machine with running water or harsh chemicals.
 - ◆ This machine is not a transportation vehicle.
 - ◆ Do not keep the brushes spinning in one area on the floor; doing so can harm the surface and perform maintenance regularly as instructed.
 - ◆ In case of fire, use a dry chemical (ABC) fire extinguisher.
 - ◆ Avoid hitting or bumping into shelves or objects that could fall.
 - ◆ Adjust driving speed according to the amount of debris on the ground.
 - ◆ Do not modify the machine.
 - ◆ Do not remove or alter nameplate.
 - ◆ For operational failures, contact our company directly.
 - ◆ Please purchase replacement parts on our site:
<https://www.CrystalFloorScrubber.com>
 - ◆ Maintenance should only be performed by qualified professionals or authorized service centers to ensure safe operation.
 - ◆ Supervision is required when dismantling or disposing of the machine. Hazardous materials such as batteries, oil, and plastics must be taken to approved recycling centers.

4.1 Unpacking Precautions

1. Remove the outer packaging film.
2. The rear wheels are secured to the pallet with metal brackets and packing straps.
3. Remove the metal brackets and loosen the packing straps.
4. Carefully drive the machine away from the metal pallet.
5. Keep this metal tray for future transportation needs.



Unlatch and pull out the dustbin before moving the machine.

4.2 Safety Instructions For Operation



NOTICE:

Designed for trained operators, this sweeper is suitable for flat, hard surfaces(e.g., concrete, asphalt, or tiles) and is used to remove dust and light debris.



NOTICE:

The sweeper will stop if the filter is clogged or the dustbin is full.

Empty the dustbin promptly after each use or when full.



CAUTION:

It is recommended to stop the machine every 15 minutes and turn on the vibration motor to perform dust shaking for about 1 minute, and empty the dustbin whenever needed.

4.3 Safety Instructions For Driving



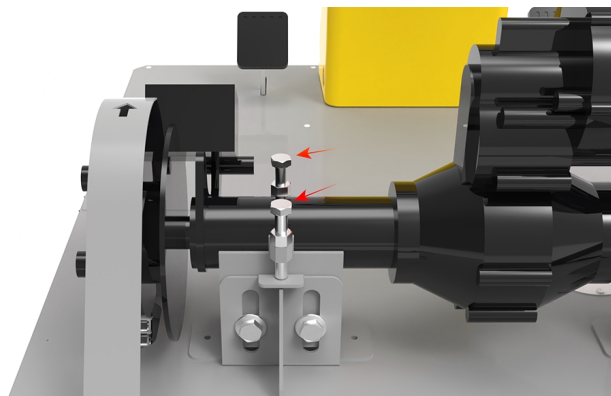
ATTENTION:

When the sweeper is stopped, lift the main brush and side brushes to prevent deformation.



CAUTION!

1. Double check the brake pedal and make sure the parking brake is released before using the sweeper.
2. The sweeper uses chains for drive and braking. Check the brake pad wear and chain tension before use to prevent accidents.



4.4 Safety Instructions For Batteries

1. To maintain battery health, recharge it immediately and avoid deep discharging.
2. Avoid frequent short incomplete charges. A full charge takes 8 hours.
3. Keep the battery dry and clean to prevent leakage. Remove metal dust or other contaminants.
4. Do not place metal objects (such as metal tools) on the battery terminals to prevent a short circuit.
5. Follow local regulations for battery recycling.
6. Do not use open flames near batteries during handling or disposal.
7. Charge batteries in a well-ventilated area.
8. Do not connect or disconnect battery cables when the machine is ON.
9. When disconnecting the battery, disconnect the negative(-) cable first, then the positive(+). Reconnect positive first, then negative. Incorrect polarity can damage electrical components.
10. Do not allow the positive and negative terminals to come into contact, which may result in a high-current short circuit, overheating, or fire.

5 Safety Instructions For Transportation

Whole Machine Transportation

This machine is secured on a special pallet. Don not place or stack anything on top of the machine during transportation.

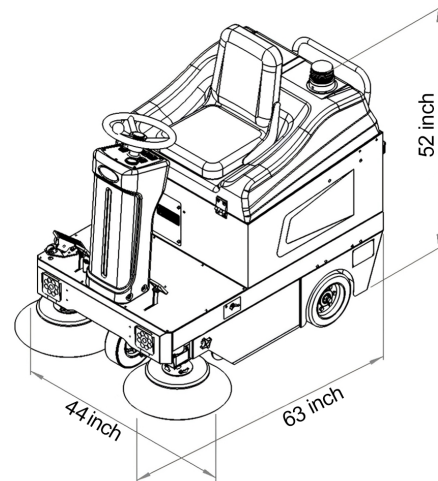
Machine Dimension:

Length: 63 inch

Width: 44 inch

Height: 52 inch

Net Weight: 635 lb



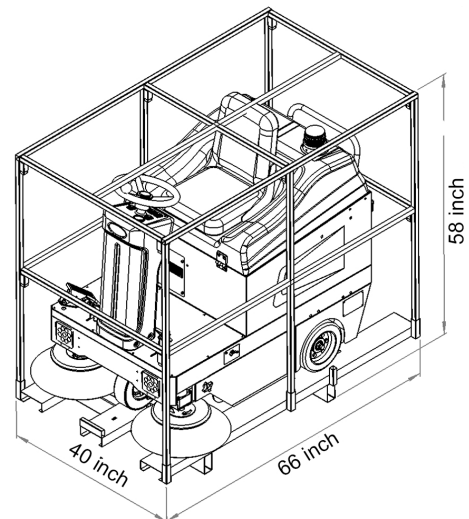
Packaging Dimension:

Length: 66 inch

Width: 40 inch

Height: 58 inch

Machine with Package: 880 lb



6 Safety Instructions For Maintenance

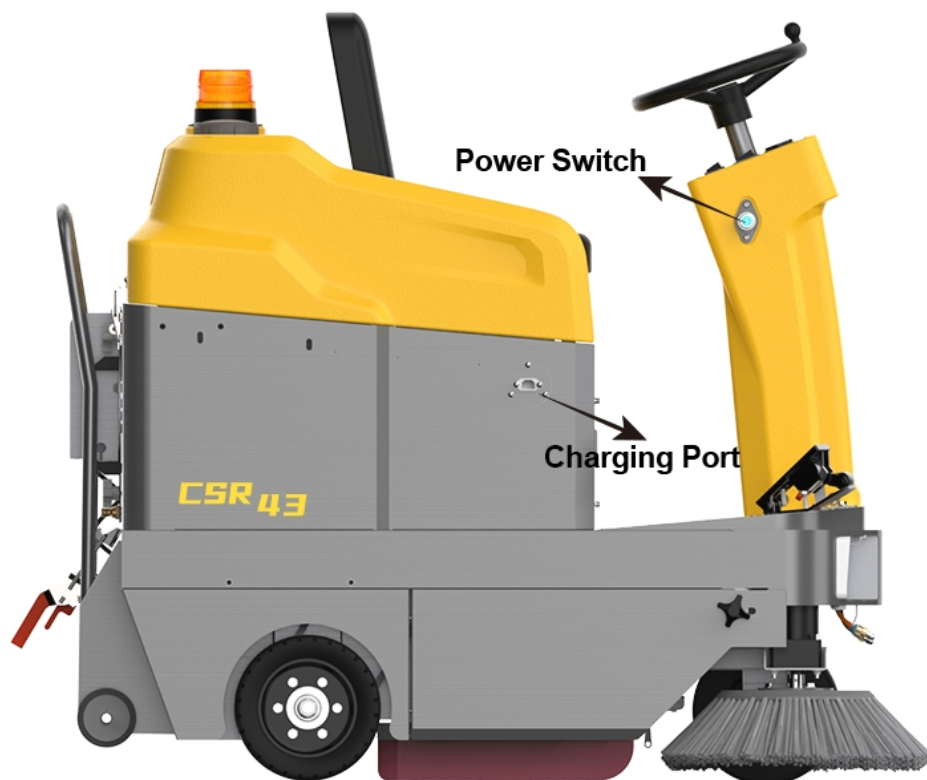
All necessary maintenance must be performed by trained personnel. Use only genuine parts from our company. When contacting our service center for parts or repair, provide the machine model.

Regular daily and weekly maintenance helps identify potential issues early. Keep the machine in good working condition and ensure high efficiency. Good maintenance habits also significantly extend the machine's service life.

6.1 Machine Components



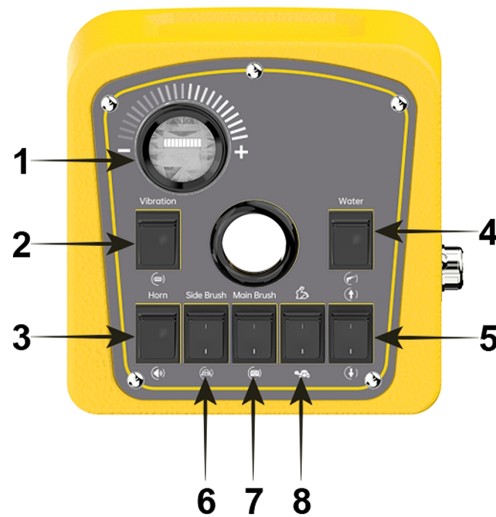
6.2 Charging Port/Power Switch



6.3 Dustbin

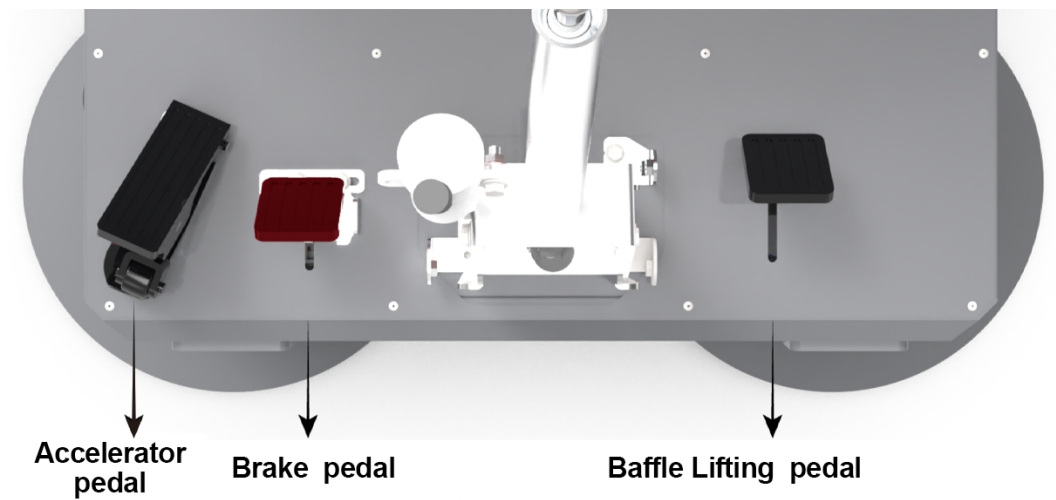


6.4 Control Panel



1. Battery Meter
2. Vibration/Dust Shaking
3. Horn
4. Water Spray
5. Direction: Forward or Reverse
6. Side Brush: On/Brush will be lowered; Off/Brush will be raised
7. Main Brush
8. Driving Mode: Forward/Rabbit Faster Mode; Backward/Turtle Slower Mode

6.5 Pedal



7 Preparation & Safety Check Before Starting



CAUTION!

Ensure the dustbin is properly closed before operation. If the machine is moved to a new location, check that all parts are securely fastened before putting it to work.

7.1 Adding Water



CAUTION!

Do not overfill the water tank. Use clean water free of sediment or particles.

7.2 Driving Mode

CAUTION:

- ◆ Ensure the side brushes and main brush are in the raised position.
- ◆ Insert the key and turn it to the ON position. Note: turn the key to "LIGHT" position to turn on the front lights.
- ◆ Press the forward direction switch, then gently press the accelerator pedal to move forward.

7.3 Sweeping Mode



CAUTION:

- ◆ Press the main brush and side brush switches to lower them into sweeping position.
- ◆ When the cleaning job is done, turn off the sweeping functions. The brushes will be automatically lifted and stopped.
- ◆ To begin sweeping, press the forward switch and gently press the accelerator pedal.
- ◆ Prior to approaching larger debris, step on the left baffle pedal to lift up the baffle. The main brush will sweep the larger debris into the dustbin. Do not operate the machine with the baffle raised up for too long since the suction efficiency will be reduced.
- ◆ For very dirty floors, stop periodically and turn on the vibration motor (hold the vibration button for 5-10 seconds).
- ◆ Check the dustbin regularly and empty it as needed.
- ◆ Before driving over obstacles up to 2 inches (5cm) high, turn off the sweeping functions and step on the left-side pedal to lift up the baffle.

7.4 Emptying the Dustbin



CAUTION:

1. Release the accelerator pedal to stop the machine.
2. Unfasten the dustbin latches.
3. Pull down the dustbin handle, then pull the dustbin out.
4. Empty the dustbin, reinsert it into the sweeper. And fasten the latches securely.
5. The sweeper is now ready for use.

7.5 Turning Off The Equipment



CAUTION!

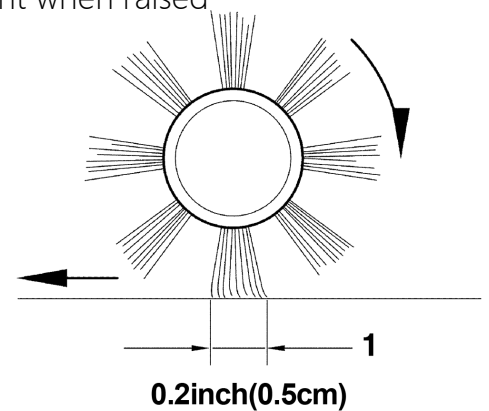
Before leaving the sweeper, perform the following steps:

1. Stop the sweeping functions. Make sure the main and side brushes are lifted up automatically.
2. Press the vibration button to vibrate the filter.
3. Empty the dustbin.
4. Turn the key to OFF and remove it from the switch..

7.6 Check/Adjust Auxiliary Equipment

Check and make sure the main brush is at the appropriate height when raised

1. Place the machine on a flat floor.
2. Let the main brush stop rotating completely.
3. The distance from the center of the main brush to the floor should be the main brush radius minus 0.2 inch (0.5cm).
4. Replace the main brush when it's worn.

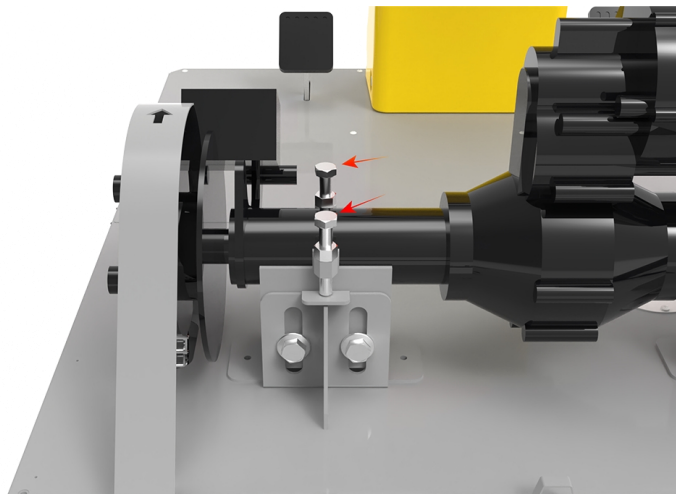


CAUTION!

If the brushes are worn, the sweeper may not operate properly. Parts could overheat, and their service life may be reduced. Check the height/condition carefully and operate only under the proper conditions.

Regularly check the tension of the rear axle drive chain. If the up-and-down play of the chain exceeds 0.2 inches (5 mm), adjust the tension bolts immediately.

To access the bolts, open the water tank top. You will see adjustment bolts on both sides of the rear axle. Adjust these bolts so the chain play is less than 0.2 inches (5 mm). Our company is not responsible for malfunctions caused by improper chain tension.



8 Towing The Equipment



CAUTION!

If the sweeper malfunctions and needs to be towed or pushed:

1. Turn off the main power.
2. Disconnect the power cable from the controller. Either the negative or positive terminal can be removed. (consult a technician if unsure).
3. Do not exceed a towing speed of 2 mph(3 km/h).

9 Storage



CAUTION!

- ◆ Do not leave the machine with water stored in it.
- ◆ Store the machine at temperatures between 32°F and 104°F(0°C and 40°C).
- ◆ The operating temperature range is 32°F to 104°F(0°C to 40°C).
- ◆ Maintain relative humidity between 30% and 80% during use and storage.

10 General Instructions



CAUTION:

Before performing any maintenance, the machine must be stopped, the key removed, and if necessary, the battery disconnected. Always review the safety sections of this manual first.

Technical specifications



Product Name: CrystalFloorScrubber.com

Driving Motor: 48V/1.07 hp

Product Model: CSR43

Dustbin Capacity: 19.8 gal

Cleaning Width: 43.3 inch

Walking Speed: 0-3.73 MPH

Main Brush Size: 19*11.8 inch

Weight: 691 lb

Main Brush Motor: 48V/0.87 hp

Dimension: 63*44*52 inch

Side Brush Motor: 48V/0.12 hp*2

Battery Capacity: 48V/50Ah*2

<https://www.CrystalFloorScrubber.com/>