



**FAST  
CLEAN**

# OWNER'S MANUAL



## **Barracuda WSC26**

**Battery Powered Automatic  
Walk-behind Scrubber**

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### **FAST CLEAN, INC.**

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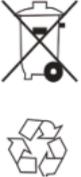
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Before operation or use of this machine, please carefully read this manual.

When ordering the replacement parts, please refer to the spare and accessory parts manual attached to the machine. Before matching parts or accessories, please first determine your machine model and serial number. You can order parts and accessories from any authorized service center or dealer. This machine can provide excellent service. Please follow the instructions in the manual.

- Follow manufacturer’s instructions for operating the machine.
- Perform maintenance according to the maintenance instructions provided in the operation manual.
- Use the OE or same-grade parts for maintenance.

	<p>Please dispose of old machine components such as packaging material, battery, etc. and toxic liquid such as antifreeze and oil according to your local regulations on waste disposal and on environmental safety.</p>
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**Machine Information** (Please fill in for future reference.)

Model number-

Machine number-

Machine option-

Sales representative-

Tel. of sales representative-

Customer ID-

Installation date-

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## Precautions

This machine is intended for indoor hard floor use only. Please use the suggested scouring pads and brushes as well as the manufacturer recommended cleaning chemicals for this machine.

All operators should read, understand, and observe the following safety precautions in this manual.

### **Warning! Fire or explosion hazard:**

The battery releases hydrogen. Please keep away from spark or open fire. The battery compartment should be kept open when charging.

Do not use flammable liquid in the machine. Do not operate the machine where there are flammable liquids, vapors or dust.

This machine is not equipped with an explosion-proof motor. If it is used where there is flammable vapor, liquid, or dust, the electric motor may generate a spark while starting the machine. This may cause flash fire or explosion.

This machine is not recommended for vacuuming up flammable materials, reactive metals or corrosive liquids.

**Warning!** To avoid injury, turn off the power before performing routine maintenance on the machine. We also recommend disconnecting the battery wiring before performing any electrical maintenance.

### **Basic Safety Instructions**

1. Before starting the machine, please ensure that all safety guards are in place and operating correctly.
2. Proceed slowly when operating on a slope or slippery surface, or when turning the machine.
3. Please discontinue use and have machine serviced if it is damaged or not operating properly.
4. Follow the chemical manufacturer's mixing ratio and instructions.
5. Do not leave machine unattended without first turning off the power.
6. Do not allow children on or around the machine

7. Please wear anti-skid shoes

### **Maintenance Instructions**

All maintenance should be carried out by trained, qualified personnel.

Do not change the original design of the machine without consulting the manufacturer.

Use replacement parts provided or recognized by the manufacturer or local dealer.

Turn off machine and disconnect battery wiring before performing maintenance. Avoid moving parts. Do not wear loose clothing that may catch in the machine.

If performing maintenance on batteries, wear appropriate safety gear such as gloves, apron and safety glasses.

Avoid contact with battery acid as it is extremely corrosive. Wash immediately with soap and water if you come in contact with battery acid.

We do not recommend using a pressure washer or steam cleaner to clean the machine.

### **Instructions for Transporting the Machine**

1. Please turn off the power before moving the machine.
2. Lift the brush head to the transport position.
3. Use a ramp when loading or unloading the machine.
4. Lean the front of the machine closely against the front part of the truck or trailer in order to brace the machine for tie down.
5. When the machine is in place, lower the brush head and make sure the key is in the off position.
6. Place blocks behind the wheels to keep the machine from sliding.
7. Use a rope or strap to tie the top of the machine in order to keep it from shifting during transportation.
8. For safety: when transporting the machine, we recommend using a ramp when loading or unloading the machine from truck or trailer.

**Machine Diagram**



- |   |  |
|---|--|
| 1. Handlebars                           | 8. Brush Head Raise/Lower Pedal          |
| 2. Control Panels                       | 9. Squeegee Assembly                     |
| 3. Recovery Tank                        | 10. Wheels                               |
| 4. Squeege Raise/Lower (On Back Center) | 11. Recovery Tank Drain Hose (Back Left) |
| 5. Solution Flow Valve (On Back Right)  | 12. Recovery Tank Cleaning Hatch         |
| 6. Solution Tank                        | 13. Solution Tank Fill                   |
| 7. Battery Compartment                  | 14. Brush Head Assembly                  |

**Machine Unpackaging**

1. After receiving, carefully inspect whether there is damage to the crate of the machine. If there is, please immediately notify carrier.
2. Check the freight list. If there is any omission, please contact the distributor. Your crate should contain:
  - Two 12V wet, maintenance-free batteries (standard)
  - One 24V/15A battery charger - standard
  - One set of battery cables - standard
  - One squeegee - standard
  - Two scrub brushes - standard
  - Two pad drivers - standard
  - (Optional) Other accessories - additionally purchased
3. Before unpackaging the machine, please remove cardboard box and loosen or cut the straps that fasten the machine to the pallet. With at least one other person, carefully unload the machine from the pallet.

**Note:** Please install the batteries after unloading the machine from the pallet. (See following).

**Battery Installation**

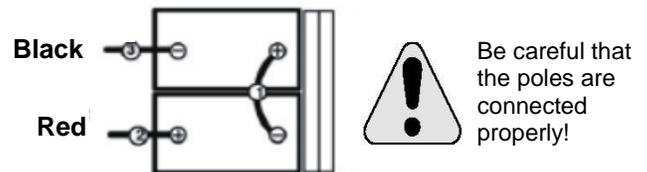
**Warning:** Fire or explosion hazard. The batteries release hydrogen. Please keep away from spark or open flame. The battery compartment should be kept open when charging.

For safety: Please wear appropriate protective gear: safety glasses, apron and gloves when performing battery maintenance or wiring. Avoid contact with battery acid.

Place the machine on the level ground and take out the start key.

Lift up the recovery tank to access the battery compartment.

Place batteries into the battery compartment and connect the battery wiring according to the following diagram:



**Note:** Place batteries carefully into compartment in order to avoid the damage to the batteries and the machine.

Before connecting the batteries, please inspect whether the electrodes and terminals are clean. Use battery terminal cleaning fluid and wire brush as required.

**Control Panel Operations**

1. Battery Power Gauge
2. Brush Switch
3. Vac Switch
4. Drive Speed
5. On/Off Key Switch
6. Vac Breaker Button
7. Main Breaker Button



Paint a thin layer of metal-free lubricating oil or protective spray on the connected wiring to avoid battery corrosion.

After the batteries are installed, please check the power gauge. If it is 80% or greater, batteries are ready for use. If less than 80%, batteries need to be recharged.

### Scrub Brush and Scrub Pad Recommendations

In order to ensure the optimum efficiency, please use the suggested type of brush or scrub pad for the surface you are cleaning. Please read the following:

Soft nylon brush (white) – Recommended for use on coated floors to avoid abrading the surface.

Polishing pad (white) – Recommended for maintaining highly smooth or polished floors.

Scrub pad (red) – Recommended for lightly scrubbing dirt without damaging the floor.

Grit scrub pad (black) – Recommended for aggressively removing heavy buildup or base or super-powerful scrubbing.

Please consult your local dealer if you have any questions.

### Squeegee Installation



1. Stop and place the machine on level ground and take out the start key.
2. Lower the squeegee lever to the operating position. Disconnect vac hose and remove squeegee bracket.
3. Unfasten the latch and loosen the star nuts. Remove squeegee.
4. Reposition or install the new squeegee into installation bracket as shown in the photo. Be sure to fasten the latch securely and tighten the star nuts.
5. Connect the vac hose to the port on squeegee assembly.
6. Examine the squeegee and adjust so that it fits the assembly and meets the floor properly.

### Scrub Brush/Scrub Pad Installation

1. Stop and place the machine on the level ground and take out the start key.
2. Step on the brush head lifting pedal to lift the brush head from the ground.
3. Place the scrub pads on the drivers (or scrub brushes on the assembly), then install the pad drivers. Fasten the central lock to fix the scrub pads. Brushes and pad drivers twist on and off.
4. Align the holder/brush installation stud at the motor drive disc buckle and press the motor switch of the brushes.

### Checklist Before Running the Scrubber

- Check the battery power. Charge batteries if power is below 80%. (New batteries take approx. 6 hours to charge).
- Check the condition of the scrub brushes or pads. Replace if they are worn. (Pads may be flipped over and reused. Replace if worn on both sides).
- Check the condition of the squeegee and reposition or replace if needed. Leading edge of squeegee should be square and meet the ground.
- Check that the recovery tank is empty and that floating filter screen is clean. Replace if needed.
- Check the condition of the skirt around the scrub deck. Replace if worn.

### Operating Instructions

#### Starting the Machine

1. Switch the key of the main power supply to the ON position.
2. Pull down the squeegee lifting lever to lower the squeegee assembly to the floor.
3. Step on the brush head lifting pedal to lower the brushes or pads to the floor.
4. Switch on the solution control knob to dispense cleaning solution (if equipped).
5. Switch on the brushes and vac motor.
6. Motor drive model: adjust the speed control knob to the desired walking speed. (If equipped).

## Running the Machine

**Warning:** Fire or explosion hazard. Do not attempt to vac up flammable or corrosive liquids, or reactive metals.

1. Overlap each cleaning pass by 3 inches.
  2. Keep machine moving while scrubbing in order to avoid abrading floors.
  3. If there are drag marks on the floor behind the squeegee, you may need to clean or replace the squeegee (if it is worn down) or turn off solution flow and run scrubber over the area again with vac turned on.
  4. Do not operate the machine on any slope steeper than 5% grade.
  5. We strongly recommend using only low foam detergents in the scrubber. Consult your local dealer for details. If you are getting too much foam while cleaning, we recommend pouring a de-foaming agent into the recovery tank and using a lower concentration of cleaning chemical in the future.
- Note:** Do not let the foam enter the filter screen so as to avoid damage to vacuum motor. The foam may cause the switch of the filter screen to malfunction.
6. Use a double pass method for cleaning extremely dirty floors. Lift squeegee assembly for first pass. Deposit detergent and let sit for 3-5 min. Then lower the squeegee, turn on vac, and run the second pass.
  7. Observe the power consumption of the battery. Normal run time for brand new batteries is 3 ½ hours.
  8. Observe the solution level through the liquid meter of the solution tank (if equipped). Normal consumption for 10 minutes of operation is about 1.3 gallons.
  9. When the solution tank is empty, before refilling, empty the recovery tank completely.
  10. If the machine is to be left unattended, stop and place the machine on level ground. Switch off and take out the key.
  11. After running the scrubber, carry out daily maintenance procedures.

## Battery Power Gauge

The battery power gauge will display the power level of the battery by percentage. If the battery is 80% or less, charge the batteries before running the scrubber. If the charge is

above 80% you batteries do not need to be charged yet. In order to prolong the life of the batteries, do not let them run completely down.

## Battery Charging

**Note:** To prolong the life of the batteries and ensure the optimum efficiency of the machine, the batteries should be charged after the machine has been used 30 minutes or more. Please do not let batteries run too low before recharging. Do not leave batteries unused for long periods of time, without recharging routinely, as they will slowly lose their charge even when not in use. The following charging instructions are specifically for the charger attached to this machine. Please be sure to use the charger of the following specification to avoid damaging batteries.

Charger specifications:

- Battery type - aluminum acid wet batteries (standard maintenance-free)
- Output voltage - 24V
- Output current - 15A
- Intended for deep cycle battery charging

Proper ventilation in the area where batteries are being charged is recommended.

Charger lights indicate the following:

- **Red:** Battery or charger failure. Try replacing batteries or contact local service center for assistance.
- **Yellow:** Charging is completed.
- **Green:** Battery charging is in progress

**Warning!** Fire or explosion hazard. The battery releases hydrogen. Please keep away from spark or open flame. The battery compartment should be kept open when charging. Do not place tools, metal shavings or other metal instruments on batteries as this could cause an electrical arc.

1. Stop and place the machine on the level ground and turn off power with the key.
2. Before charging, check the electrolyte level in each battery. (If batteries are not standard maintenance-free).
3. For safety: Please wear appropriate protective gear: safety glasses, apron and gloves when performing battery maintenance or wiring. Avoid contact with battery acid.

4. When charging, please open the recovery tank to facilitate ventilation.
5. Plug the AC (alternating current) power cord of the charger to the outlet/power source.
6. Plug the DC (direct current) power cord of the charger to the battery charging port at the rear of the machine.
7. The charger will automatically begin charging, and will automatically switch off when the batteries are fully charged.

**Note:** The machine will not operate while it is charging. While charging, please do not pull the DC cord out of the port at the back of the machine. If charging must be halted before it is complete, please unplug the AC power cord from power source first.

8. After the charging is completed, recheck the electrolyte level in the batteries (if equipped with wet non-maintenance-free batteries).

**Note:** Contact your local service center or authorized dealer if you have questions regarding battery maintenance or type of batteries to use with this machine.

**Note:** maintenance-free gel batteries may be available with this model as a non-standard option. Contact your dealer for details.

### Drainage of Recovery Tank

After each use, the recovery tank should be drained and cleaned. Filters and hoses should also be inspected for corrosion or blockage, and cleaned and replaced as needed.

Follow these steps for draining & cleaning the recovery tank:

1. Switch off machine with power key and take the machine to the drainage/maintenance area.
2. Unscrew (counterclockwise) the lid of the recovery tank drainage hose and take the hose down. Direct hose toward drain or other designated waste disposal area.
3. Once recovery tank has drained, open the lid of the recovery tank and flush with clean water. Allow waste to continue to drain out of tank through the hose. If tank is especially dirty, scrub lightly with scrub brush or sponge and appropriate cleaning agent. (Do not use harsh solvents, pressure washer, or steam to clean the interior of the recovery tank.) Consult manufacturer or local dealer if you have any questions.

4. Dismantle and wash the floating filter screen in the recovery tank. Dry and replace when finished. Inspect for corrosion and wear. Replace filter if necessary.

5. Allow all waste and rinse water to drain from recovery tank then leave open to air dry.

### Machine Maintenance

Follow the daily, weekly, and monthly maintenance procedures below in order to keep your machine in prime working condition.

**Warning:** Electric shock hazard. Disconnect the battery wiring before performing maintenance on the machine.

### Daily Maintenance (after each use)

1. Drain the solution tank.
2. Drain the recovery tank, clean, and flush with hot water, no hotter than 140°F as required. Leave open to dry.
3. Dismantle and clean the floating filter screen in the recovery tank. Replace when dry.
4. Take scrub brushes or scrub pads off machine and clean them. If scrub pads are worn down, turn them over or replace them with new ones. If brushes are completely worn, replace with new ones.
5. Raise the squeegee assembly and wipe the squeegee. Check the squeegee edges for wear and damage. If squeegee edge is worn or damaged, (it is not square) you may flip squeegee over and reuse it. The same squeegee may be used until all four edges are worn down, then squeegee should be replaced.
6. Use mild detergent and wet cloth to wipe down the machine. Important: Do not spray the machine with pressure washer, or flush with hose when cleaning to avoid water damage to electronic components.
7. Check the condition of the skirt on the scrub deck and replace it if there is wear and tear or obvious damage.
8. Charge the batteries. To prolong the life of the batteries and ensure the optimum efficiency of the machine, the batteries should be charged if the machine has been run for more than 30 minutes.

### Monthly Maintenance (or every 80 hours)

1. Remove the filter of the solution tank from and clean the filter screen. Ensure the solution tank is emptied before dismantling the filter.
2. Clean the top of the batteries to prevent electrode corrosion.

3. Inspect battery wiring and make sure it is in proper position and in good condition.
4. Check and clean the cover of the recovery tank and replace it if there is any damage to the tank or seal.
5. Spray silica gel dry lubricant on all pivots and wheels, and coat with a layer of water-proof lubricating oil to ensure smooth operation.
6. Check the nuts and bolts on the machine and tighten if they are loose.
7. Check for leaks.

#### Quarterly Maintenance (or every 250 hours)

Examine the condition of the carbon brush of drive motor (if equipped), vac motor, and brush motor. When the abrasion length of the carbon brush is within 10mm (3/8

in), the carbon brush needs to be replaced. Please contact your local dealer or authorized service center.

#### Machine Storage

1. Please charge the battery before storing the machine.
2. Drain, thoroughly clean, and air dry the recovery tank. (Storing the machine without cleaning the recovery tank may cause a buildup of harmful bacteria or odors.)
3. We recommend storing the machine indoors in a dry place.
4. Store with the brush head in raised position.
5. Leave the cover of the recovery tank open.
6. If the scrubber will be stored in a cold environment, please be sure to drain all liquids from the machine or use antifreeze.

#### Troubleshooting

Problem	Cause/Possible Solution	
<b>The machine will not operate.</b>	Batteries have no power.	Charge batteries.
	Batteries will not charge.	Replace batteries
	Battery wiring is not connected.	Check battery wiring for loose connection. Tighten if necessary..
	Fuse has blown.	Replace the fuse.
<b>Brush motor will not work.</b>	Brush head is raised.	Lower brush head.
	Batteries have run down.	Charge batteries.
	Breaker has been tripped	Reset main breaker with button on control panel.
	Brush switch is faulty.	Please contact service center.
	Carbon brush on motor is worn out.	Please contact service center.
<b>Vac motor will not work.</b>	Squeegee assembly is in raised position.	Lower the squeegee assembly.
	Batteries have run down.	Charge batteries.
	Vac motor fuse has blown.	Replace vac fuse.
	Vac breaker has tripped.	Reset vac breaker with button on control panel.
	Vac motor or vac motor wiring has failed.	Please contact service center.
	Carbon brush on vac motor is worn out.	Please contact service center.
<b>Little or no cleaning solution flows out of machine.</b>	The solution tank filter or hose is blocked.	Inspect filter and hoses and clean them.
	Flow control is set too low	Adjust flow control.
	Bolt on flow control knob is loose.	Tighten bolt on flow control knob.
<b>Machine is leaving too much waste water on the floor.</b>	The recovery tank is full.	Drain the recovery tank.
	The squeegee is worn or damaged.	Reposition or replace the squeegee.

	The vac hose is blocked.	Inspect vac hose and remove clogs.
	Vac motor has failed.	Please contact service center.
<b>Run time has shortened.</b>	Batteries have worn out.	Replace batteries.
	Battery charger has failed.	Replace battery charge or contact service center.

**Specifications**

Specification	Unit	Barracuda WSC26	Specification	Unit	Barracuda WSC26
Voltage	V	24 (2 x 12V)	Drive Motor	hp	.34
Battery Capacity	AH	100	Brush Motor	hp	.75
Run Time	Hrs	3 ½ (approx.)	Vac Motor	hp	.67
Cleaning Efficiency	Ft <sup>2</sup> /Hr	28,000	Solution Tank Capacity	gal	19
Maximum Floor Grade	%	5	Recovery Tank Capacity	gal	20
Scrubbing Path	in	26	Machine Weight (w/batteries)	lbs	348
Vacuumping Path	in	32	Machine Dimensions	in	48 x 28 x 43

**Warranty Card**

(please fill out and return to dealer)

**Name** \_\_\_\_\_ **Phone #** \_\_\_\_\_

**Address** \_\_\_\_\_

**City** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip** \_\_\_\_\_

**Purchase Date** \_\_\_\_\_ **Invoice #** \_\_\_\_\_

**Model #** \_\_\_\_\_ **Serial #** \_\_\_\_\_

**Local Dealer** \_\_\_\_\_ **Local Dealer City/State** \_\_\_\_\_

Warranty provided with purchase invoice.