

SW26

Walk-behind Vacuum Sweeper

Operating & Maintenance Manual



Thank you for purchasing a Pacific Floorcare product. Carefully inspect all components for freight damage. If such damage is discovered, file a "CONCEALED DAMAGE REPORT" immediately with the delivering carrier.

Read this manual carefully and keep it near the machine, protected from liquids and other damaging substances. Failure to follow the instructions may result in injury or damage to equipment and property.

The contents of this manual are based on the latest product information available at the time of publication. Pacific Floorcare reserves the right to make changes or improvements without being obliged to apply changes to the machines previously sold.

New manuals can be downloaded from: https://pacificfloorcare.com/parts-manuals/

TABLE OF CONTENTS

1. GENERAL INFORMATION	Page
1.1. Symbols	
1.2. Notes	
1.3. Manual references	
1.4. Warranty	3
2. FEATURES AND SPECIFICATIONS	
2.1. Identification	6
2.2. Description and components	
2.3. Specifications	7
3. SAFETY	
3.1. Correct use	9
3.2. Misuse	
3.3. OEM parts & equipment	
3.4. Operator qualification	10
3.5. Protection and alarm systems	10
3.6. Safety devices	11
3.7. Diagnostic messages	
3.8. Dangers	
3.9. Safety Signals	
4. INSTRUCTIONS FOR STARTING AND USE	
4.1. Transport and handling	16
4.2. Storage	
4.3. Instructions for unpacking the machine	
4.4. Handling an unpacked machine	
4.5. Installation	
4.6. Control devices	
4.6.1. Control panel	
4.7. Functions	
4.7.1. Starting and machine preparation	
4.7.2. Handle adjustment	
4.7.3. Leveling	20
4.7.4. Waste hopper	
4.7.5. Brushes replacement	
4.7.6 Battery recharging.	22
5. MAINTENANCE	
5.1. Maintenance table	23
5.2. Vacuum motor maintenance	
5.3. Checking the electrical system	
5.4. Maintenance log	

1. GENERAL INFORMATION

1.1. SYMBOLS



This symbol is used to alert the operator on procedures or precautions that must be followed to avoid injury or damage



This symbol is used to inform the operator on general information

1.2. NOTES



All rights reserved to copy, totally or in part, and transmission to third parties by mechanical, electronic or whatever means, without the expressed permission of the manufacturer.

This manual was delivered with the SW26, of which it constitutes an integral part. This manual shall remain with the equipment in the event of an ownership transfer. Please keep in a safe place. Purchaser is responsible to forward this manual to any responsible parties.

Pacific Floorcare shall be held harmless for any kind of possible damages caused by persons and/or things due to non-observance of instructions in this manual.

Pacific Floorcare reserves the right to make equipment changes or updates without notice. Therefore, data and information contained in this manual could have changes and/or updated notes.

1.3. MANUAL REFERENCES

This manual ensures easy and safe use of the machine, as recommended by European Directives about product security.

It is recommended all authorized operators read this manual in its entirety before operation. This manual must also be used as procedural reminders or for the training of a new operator.

Pictures or drawings are used for reference and may differ from the physical machine.

Special symbols, **bold type** and/or *italicized text* are used to gain the attention of the reader on important information, particularly for safety.

List of revised pages can be found to the end of this manual.

1.4. WARRANTY

Terms and conditions of warranty are stated below

OBJECT OF WARRANTY

The SW26 Sweeper has been conceived and built for long-term, trouble-free use. In the event a problem should arise during the warranty period, Pacific Floorcare will, at its discretion, repair and/or replace defective parts which have shown premature breakage or wear and tear caused by defective materials or workmanship.

Warranty does not cover the following:

- Failure to following the procedures and operation instructions included in this manual.
- Equipment modifications without the approved written consent of Pacific Floorcare.
- Non-use of genuine wear parts.
- · Repairs made by unauthorized personnel.
- Improper or missing maintenance.
- Natural calamities or Acts of God.

WARRANTY TERMS

Labor: Only a Pacific Floorcare Authorized Service Provider with a written factory service agreement may evaluate and/or repair Pacific Floorcare equipment. Labor for any warranty repair is authorized for one (1) year following the date of sale to the end-user. Once an Authorized Service Provider has been identified, it is the end user's responsibility to contract repairs. The authorized service provider will file any verified warranty claims with Pacific Floorcare in accordance with the written factory agreement.

Parts: Parts determined to be defective are covered for three (3) years following the date of sale to the end-user. Pacific Floorcare reserves the right to inspect defective parts prior to crediting any warranty claims.

AGM Maintenance Free Batteries: In addition to the terms above, any original equipment Pacific Floorcare Battery which becomes unserviceable under normal use within two (2) years (730 days) from date of sale to the original user will be repaired or replaced with one of equal specification with no charge to the user.

Disclaimer: This warranty limits Pacific Floorcare's liability to the repair of the equipment and/or replacement of the defective parts and does not include incidental or consequential damages arising from the use of a Pacific Floorcare machine whether defective or not. This warranty is in lieu of all other expressed or implied warranties and is extended to the original purchaser/user only.

Return Material Authorization (RMA): Warranty credit or replacement of returned parts is subject to an incoming inspection of those items.

EXCLUSIONS

Warranty does not cover normal wear parts and materials (brushes, squeegee blades, etc...).

APPLICATION

In order to establish potential failure cause(s) and so the warranty may be applied, it may be necessary for the defective components need to be sent to Pacific Floorcare. Repairs, replacement or substitutions under the provisions of the warranty will be made at Pacific Floorcare's discretion.

AUTHORIZATION

Authorization must be granted by Pacific Floorcare's technical service department either in writing or by phone. To properly start a warranty claim the following information must be provided:

- Machine model as shown on the equipment label (reference section 2.1)
- Machine serial number as shown on equipment label (reference section 2.1)
- Detailed description of issue and relevant information on how the issue happened or was discovered
- Part number and position of possible defective component as referenced from spare parts list

GOODS TO BE RETURNED - RETURN MATERIAL AUTHORIZATION (RMA)

In the case of goods to be returned for warranty replacement, it is necessary to have written acceptance from the Pacific Floorcare technical service department. A Return Material Authorization (RMA) number will be issued.

All defective parts must be carefully packed in order to avoid further damages during transport.

Goods must be shipped with the following information:

- Serial number of the equipment
- Part number of the defective part (if known)
- Detailed description of the defect and of the conditions where it happened
- RMA clearly written / applied to the outside of the shipping box

In case of defective electronic goods, please return them separately from other materials, in order to help us properly handle dangerous waste goods and recycle.



Returned components recognized under warranty become the property of Pacific Floorcare.



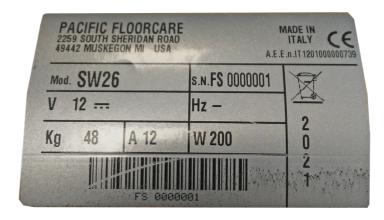
Missing information may result in denial of warranty.

2. FEATURES AND SPECIFICATIONS

2.1 IDENTIFICATION

The SW26 machine is identified by a label on the backside of the machine which will state pertinent information such as model, serial number, weight, and voltage







Do not tamper with or remove the label.

2.2. DESCRIPTION AND COMPONENTS

The SW26 walk-behind sweeper has been designed for use on flat areas, hard floors and carpets, by using a sweeping process that pulls the dust and debris into a duly tank in the back of the machine. The power supply is furnished by an accumulator battery at 12V and the traction system is accomplished by the brushes inertia.

The machine is supplied with two rotating brushes: one lateral and one central. The lateral moves the dust in to the center of the machine and the main /central brush convey the dust into the tank, assisted by a fan motor. This machine must be used only on dry surfaces.

The easy-to-use controls utilizes illuminated LEDs to display the battery charge level. Additional control functions allow the operator:

- to switch on and off the machine
- > to start the 2 brushes
- > to select the pressure level
- > to start the suction vacuum motor
- > to start the filter shaker
- to check the battery level charge

The main components of the machine are:

- black painted chassis
- recovery tank in plastic

- > carter in plastic
- brush motor
- > reduction motor
- main brush
- lateral brush
- filter motor shaker
- > vacuum motor fan
- > operator control handle

Each machine is inspected during the manufacturing process and the final quality check is done before shipping the machine.

2.3. SPECIFICATIONS

SPECIFICATIONS			
	SW26		
OVERALL DIMENSIONS L x W x H	35.4 x 25.6 x 37.4 in / 900 X 650 X 950 mm		
WASTE HOPPER CAPACITY	2,195 cu in 9.5 gal / 38 liters		
WORKING WIDTH	25.6 in / 650 mm		
CENTRAL BRUSH WIDTH	15.7 in / 400 mm		
SIDE BRUSH MOTOR	24 v 220 RPM		
CENTRAL BRUSH MOTOR	12 V 2300 RPM		
VACUUM MOTOR	12 V		
SIDE BRUSH DIAMETER	11.8 in / 300 mm		
WEIGHT (INCLUDING BATTERY)	105.8 lbs / 48 kg		



Specifications may be changed without notice

MEASUREMENT UNITS CONVERSION				
Length 1 inch = 1" = 25,4 mm Power 1 kW = 1,36 CV = 1,34 BHP				
Temperature	T (K) = t (°C) + 273 / t (°F) = 1,8 t (°C) + 32	Pressure	1 bar =100 kPa = 14,5 psi	

3. SAFETY

3.1. CORRECT USE



The SW26 has an intended use to clean flat floors or floors with maximum slope of 5%.

3.2. MISUSE

- Use by unauthorized operator
- Cleaning of irregular floors
- Cleaning of surfaces with more than 5% slope
- Use of the machine near dangerous products or chemicals
- Cleaning with inflammable materials
- To use the machine as a transport vehicle for persons or goods
- Modify or removing protection devices and guards
- Charging the batteries in places without adequate ventilation
- No respect of safety rules from the operators
- > Any modification not authorized by Pacific Floorcare
- Use of acid products that can damage the machine
- Disregard of information contained within this manual



Read all machine labels and do not cover, alter or remove labels.

Pacific Floorcare will not be held responsible for improper use of the machine.

3.3 OEM PARTS & EQUIPMENT

In order for the machine to function properly, only use original equipment replacement parts. Please contact the Pacific Floorcare Technical Service department for assistance.

3.4. OPERATOR QUALIFICATION

Operator qualifications for different machine uses

OPERATION TYPE	OPERATOR QUALIFICATION
Use / Inspection	Properly trained operator
Installation / deinstallation	Authorized technician
Mechanical parts maintenance	Authorized technician
Electrical parts maintenance	Authorized technician
Routine maintenance	Properly trained operator
Dismantling and disposal	Authorized technician

We recommend properly training operators before machine use. We recommend operators read and understand information and procedures outlined within this manual.



Pacific Floorcare shall not be held liable for accidents involving persons or things from improper use of the machine or by unauthorized and unqualified operators.

3.4. PROTECTION AND ALARM SYSTEMS



• It is forbidden to tamper with protection and alarm systems. They must be in proper working order at all times. We recommend verifying periodically they are functioning properly (section 5.1).

Brushes covers

The SW26 is equipped with two brushes, one lateral and one central, which rotate during working. To prevent the accessibility to these danger areas there are plastic guards. The removal of these guards must be done by an authorized technician.



3.6 SAFETY DEVICES

The control board system has advanced protection on the power output dedicated to the motors. A logic circuit protects the board through the functions of:

- 1. Short circuit
- 2. Current limitation
- 3. I²t
- 4. Reverse polarity
- 5. Under and overvoltage

3.6 DIAGNOSTIC: ERROR CODES AND EXPLANATIONS

The table below provides useful information for identifying and treating any errors reported by the device. The diagnostic LED on both drives signals the detected error by executing a number of flashes corresponding to the error code. Only the diagnostic LED of the drive affected by the error will light up. All errors are shown on the display along with a brief description and the drive involved. If the error affects the brushes drive, the error message will show the words "Brushes". If, on the other hand, the error affects the

Brushes			
STANDARD ERROR CODE	DEFAULT FLASHES	MEANING	DESCRIPTION/ACTION
40	1	Motor shutdown	The system has stopped the motor to protect the drive due to an excessive peak of current. To reset, restart the machine.
41	2	Motor I ² T	The system has stopped the motor to protect it due to excessive continuous current. To reset, restart the machine taking care of letting the motor cool down.
42	3	Current limit	The current absorbed by the motor is higher than the threshold value. To reset, restart the machine.
43	4	Time of current above limit	The current absorbed by the motor was higher than the limitation one for a longer time than allowed. To reset, restart the machine.
44	5	Disconnected motor	The motor is disconnected. To reset, check the connection and restart the machine.
20	7	Low battery	The system has stopped the motor due to insufficient battery voltage. To reset, restart the machine after recharging the battery.
21	8	Low peak battery error	The system has detected that the battery value is lower than that set in the (BATTERY_MIN_PICCO) parameter for a number of consecutive times defined by the NUM_PICCO_MIN parameter. To reset, restart the machine after checking the battery.
22	9	Battery value over the maximum	The system has detected that the battery value is beyond the set value. To reset, restart the machine after checking the battery.

23	10	High peak battery error	The system has detected that the battery value is higher than that set in the parameter (BATTERY_MAX_PAK) for a number of consecutive times defined by the parameter NUM_PICCO_MAX. To reset, restart the machine after checking the battery.
25	11	Maximum board temperature	The system has stopped the motor due to excessive temperature of the electronic power stage. To reset, restart the machine taking care to let the drive cool down.
26	Not set	Standby	The system has entered standby mode. To reset, restart the machine.
27	12	System error	The system stalled the motor because a system error occurred. Turn off the machine and restart to restore operation.
24	14	Low battery	The system has detected the battery below a certain threshold, if set. The error does not preclude the correct operation of the machine but serves only as a warning.

Vacuum				
STANDARD ERROR CODE	DEFAULT FLASHES	MEANING	DESCRIPTION/ACTION	
1	1	Vacuum motor shutdown	A current error occurred on the vacuum motor. To reset, restart the machine.	
2	2	I ² T threshold exceeded	The current absorbed by the vacuum motor has exceeded the maximum I ² T threshold for too long. To reset restart the machine.	
3	3	Motor current limit	The vacuum motor is exceeding the maximum limit of absorbed current.	
4	4	Time of current above limit	The vacuum motor has exceeded the maximum limit of absorbed current for too long. To reset restart the machine	
12	12	System error	A system error has occurred, contact assistance if it persists.	
13	13	Disconnected motor	The motor is disconnected (controlled at the start). To reset, check the connection and restart the machine.	
14	14	Maximum temperature threshold exceeded	The drive has exceeded the maximum temperature threshold. To restore operation, let the machine cool down for a few minutes.	

17	17	Fault error	System error, check motor connections.
18	18	Limit VREF error	Current too high on one of the two motors.
19	19	Limit VREF time error	Current too high on one of the two motors.

Display			
STANDARD ERROR CODE	MEANING	DESCRIPTION/ACTION	
97	System error	Restart the machine. A system error has occurred, contact assistance if it persists.	
99	System charging	System detected in charging mode. To reset, unplug the charging cable and restart the machine.	

3.7 DANGERS

To reduce the risk associated with potential dangers, please adhere to the following:

Dangers and pinch points exist when performing the following maintenance:

- When replacing the main and lateral brushes
- When cleaning the vacuum filter
- . When adjusting the brush pressure

All maintenance operations must be performed with the machine turned off.

Also, there are appropriate signals on the machine alerting the operator.

Tipping Danger

Tipping danger may happen:

• During the normal use when the machine passes the gradient limits specified in this manual or when the machine is used on irregular surfaces. (section 3.2)



 Don't use the machine on surfaces exceeding 5% of slope or irregular surfaces that may cause instability.



Pacific Floorcare shall not be held liable for accidents to persons or things when using the machine on surfaces that can compromise stability. The operator has to follow recommendations about environmental conditions in the areas where the work is to be performed.

3.9. SAFETY SIGNALS

Safety signals include:

DANGERS	Signals are triangular shaped with black colored in yellow field pictograms
PROHIBITED	Signals are circular shaped with black colored in white field red-crossed pictograms

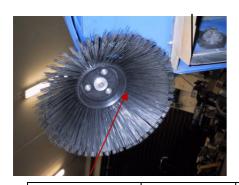


W	hat		

NEVER remove covers in which components are still moving.

What to do?

In phase of installation/maintenance the machine must be turned off and the ignition key removed from the control board. Do not operate the machine with damaged, altered, missing or removed guards and covers.







What is it?

This signal shows crushing or pinch dangers due to moving parts of the machine.

What to do?

In phase of installation/maintenance the machine must be turned off and the ignition key removed from the control board.







What is it?

This signal shows crushing dangers due to moving parts of the machine.

What to do?

In phase of installation/maintenance the machine must be turned off and the ignition key removed from the control board.



ALWAYS adhere to these alerts

4. INSTRUCTIONS FOR STARTING AND USE

4.1. TRANSPORT AND HANDLING

The SW26 is shipped in specially designed packaging to ensure safe delivery. Figure 4.1 shows the center position indicated with a black arrow. Forklift tines must be placed in such a way as the black arrow is at the center of them. Use caution when moving and avoid stacking. If agreed upon to ship without packaging, please secure machine with straps and blocking. Do not transport in a manner where adverse weather or surroundings could damage the machine or packaging.



Carefully inspect all components for freight damage. If such damage is discovered, file a "CONCEALED DAMAGE REPORT" immediately with the delivering carrier.

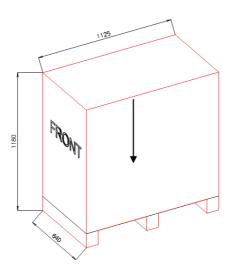


Figure. 4.1.

PACKAGE TYPE	LIFTING APPARATUS	PIC.
Carton or pallet	Forklift or pallet jack	Fig 4.2



When handling the machine, ensure the load is balanced and secure. **Avoid** handling on uneven surfaces.



Machine dimensions and mass are explained in section 2.3. We strongly recommend authorized personnel for handling operations.

LOADING DIAGRAM



Figure 4.1.2

4.2. STORAGE

In case the machine is not immediately installed, it has to be kept in a dry and secure. Humidity must be lesser than 80 % and storage temperature between 37° F to 113° F (3° C \leq t \leq + 45 °C).

4.3. INSTRUCTIONS FOR UNPACKING THE MACHINE

- > Carefully cut off the banding
- Take away on the base of the carton the clips that keep it secure to the pallet.
- Where plywood is, take away the clips on both sides and at the base of each panel.
- Cut off the clips that secure the machine.Place the machine at ground level.

4.4 HANDLING AN UNPACKAGED MACHINE

- > Check the machine and install the batteries if not installed.
- > To transport the machine, remove the battery cables, the brushes and the squeegee. If available, we recommending using the original packaging to transport.

4.5. INSTALLATION



The installation must be done by authorized personnel.

4.5. CONTROL DEVICES

4.5.1. CONTROL PANEL

The control panel controls the main functions of the machine. (Figure 4.6).



Figure 4.6

POS.	BUTTON	FUNCTION
1	Brush High	BRUSH PRESSURE 1
2	Brush Low	BRUSH PRESSURE 2
3	ON/OFF	START / STOP
4	Dust Control	ON/OFF SUCTION
5	Filter Shaker	FILTER SHAKER

4.6. FUNCTIONS

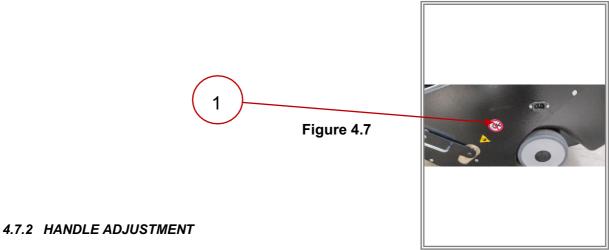
It is import to use the correct settings and brush. For example, if there is a carpet to clean, it is advisable to have a double cleaning action and also to have a little pressure on the handle. The traction is assisted by the rotation of the main brush, if the machine is hard to move, please check the right brush rotation.



Before proceeding with operation, please ensure all guards and protections are installed and functioning properly.

4.7.1 STARTING AND MACHINE PREPARATION

The SW26 is equipped with a battery charger. Only use the provided cable when recharging the battery. (figure 4.7). The machine must be off before proceeding with charging.

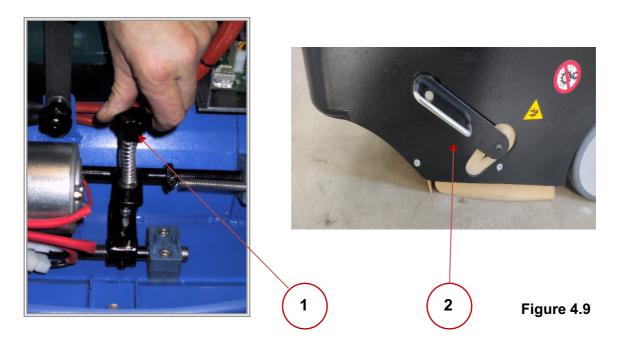


The drive control handle can be adjusted.

- ➤ Knob for the handle adjustment (Figure 4.8);
- > To adjust, unscrew the right and left knob and move handle to desired location. After adjustment, hand tighten the right and left knobs.



Figure 4.8



4.7.3 LEVELING FUNCTION

Leveling the machine:

- ➤ Lateral brush pressure lever (figure 4.9). Screw and unscrew the knob to increase or decrease the pressure of the lateral brush.
- Replaced lever for the main brush (figure 4.9). Pull out the lever and replace the wear main brush. The machine must be switched-off before performing adjustments.

4.7.4 WASTE HOPPER

Follow the instructions below in order to empty the waste hopper:

- Unlock the retaining clamp (figure 4.10)
- Empty the hopper (figure 4.10).in the appropriate refuse bin
- Insert the hopper and lock it in position with the retaining clamp.

Please ensure the machine is off before emptying the waste hopper.



Figure 4.10

4.7.5 BRUSHES REPLACEMENT

Replacing the main brush:

- > Turn off the machine.
- > Pull up the machine as showed in figure 4.11
- > Pull the lever (figure. 4.11) in order to remove the bearing from the brush.
- > Remove the main brush and replace it with a new one.
- > Secure the lever and replace the bearing into the brush.
- > Let down the machine, ready to work.



Figure 4.11

Replacing the lateral brush:

- Turn off the machine.
- Position the machine as showed in figure 4.12
- Unscrew the center screw (figure. 4.12)
- Remove the brush and replace it with a new one (figure 4.12)
- Replace and secure the center screw through the brush and let down the machine.





2

1

Figure 4.12

4.7.6 BATTERY RECHARGING

To recharge the battery, open the main cover (figure 4.13) and insert the charger cable on the male socket (figure 4.14). Then connect the charging cable to the power grid.



Figure 4.13



Figure 4.14





Pay attention at the label on the battery charger (Figure 4.14).

5. MAINTENANCE

5.1 MAINTENANCE TABLE

It is essential to perform scheduled routine maintenance. Use the table below as a reference.



• Service and maintenance should be performed by authorized personnel only. For assistance and spare parts contact Pacific Floorcare.

OPERATION	PROCEDURE	FREQUENCY
Cleaning	 Never use corrosive cleaning products. Don't use power washers or high pressure water. 	Everyday
	Check suction	Weekly
	Brushes wornElectrical cables	Every 15 days
Control	Safety devices and guardsElectrical and alert systems	Every year

5.2 VACUUM MOTOR MAINTENANCE

The vacuum motor must be keep clean and free of obstructions. Every six months check the motor brushes and if necessary, replace them.

Maintenance of vacuum motor:

- > Stop the machine and disconnect the plug from the battery;
- Remove the rubber gasket (figure.5.1).
- Remove filter and clean it with the compressed air. (figure 5.1)
- Check the vacuum motor. (figure 5.1)



Figure 5.1

5.3 CHECKING THE ELECTRICAL SYSTEM

The electrical system must be checked every two years. Immediately replace any defecting, worn or damaged components. Do not continue to use the machine unit the repairs are completed by authorized personnel.



All maintenance and repairs must be done by authorized personnel.

5.2 MAINTENANCE LOG

DATE	NAME	NOTES	INITIALS

Serial no.	
Date of installation	