

SweepMaster 28B

INTRODUCTION

OPERATING & MAINTENANCE INSTRUCTIONS

READ THIS BOOK

This operator's book has important information for the use and safe operation of this machine. Read this book carefully before starting the machine. Keep this book and tell all operators to read the book. If you do not follow the instructions, you can cause an injury or damage equipment, furniture or buildings.

For new books write to:

Pacific Steamex, Inc.
2259 S. Sheridan
Muskegon, MI 49442-6252

Carefully inspect all components to ensure that there is no concealed freight damage. If such damage is discovered, file a "CONCEALED DAMAGE REPORT" immediately with the delivering carrier.

The contents of this manual are based on the latest product information available at the time of publication. Pacific Steamex reserves the right to make changes or improvements to its machines without notice.

**FOR YOUR CONVENIENCE, RECORD
THE MACHINE MODEL AND SERIAL
NUMBER HERE:**

MODEL _____

SERIAL NUMBER _____

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Operator and Safety Instructions

For the safe operation of this machine, read and understand all instructions before using this machine.

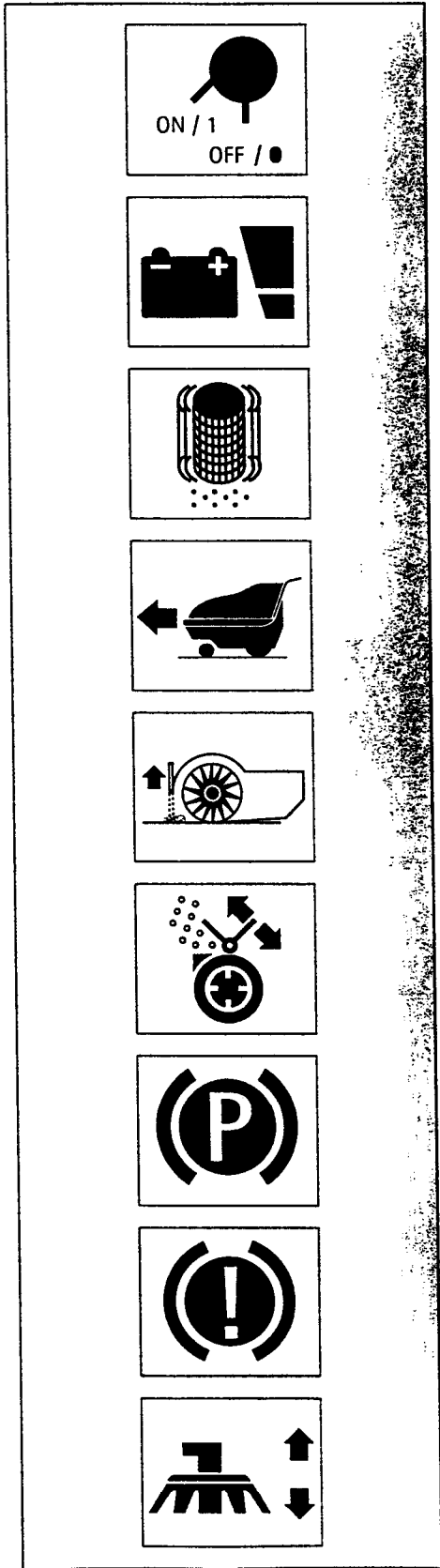
WARNING: To reduce the risk of fire, electric shock or injury:

1. Do not operate this machine unless it is completely assembled. Do not use this machine as a step or furniture.
2. This machine is intended for DRY PICK-UP ONLY.
3. Do NOT pick up any ropes, wires or cables: they may get entangled with the central brush and cause friction.
4. Operate this machine only from the rear of the machine. Do not ride on this machine or install attachments for riding behind the machine.
5. Be careful when operating the machine on ramps. Always move slowly on a ramp. Do not turn this machine on a ramp. Do not stop and leave this machine on a ramp.
6. This machine is heavy. Stop and leave this machine only on a level concrete or hard surface and apply the parking brake.
7. To prevent injury, and damage to the machine, do not lift the machine or move it to an edge of a stair or loading dock.
8. Do NOT lift the machine by its' handles; this should not be necessary during operation or maintenance
9. Machines can cause an explosion when operated near flammable materials and vapors. Do not use this machine with or near fuels, grain dust, solvents, thinners, or other flammable materials.
10. Lead acid batteries generate gases which can cause an explosion. Read the instruction manual supplied with the battery charger. Keep sparks and flames away from batteries. NO SMOKING. Charge the batteries only in an area with good ventilation.
11. Always wear eye protection and protective clothing when working near batteries. Remove all jewelry. Do not put tools or other metal across the battery terminals, or the tops of the batteries.
12. Do not use a charger if the power cord is damaged.
13. Check the level of the electrolyte every time you charge the batteries. If the level is low, add distilled water only.
14. Maintenance and repairs must be done by authorized personnel only. Keep all fasteners tight. Make adjustments according to the specifications given in the service manual for this machine.
15. Always switch off the machine and disconnect the batteries before maintenance or adjustments are made to the machine. Also engage the parking brake.
16. Keep the electrical parts of the machine dry. For storage, keep the machine in a building.
17. Make sure all labels, decals, warnings, cautions and instructions are fastened to the machine.
18. Do not reach under shrouds with fingers, hands, or toes when machine is running.
19. Do not wear clothes which could get entangled, such as scarves and wide clothes in general.

Introduction

The SweepMaster 28B is a battery operated machine designed for sweeping both indoor and outdoor surfaces that are tiled, or paved with cement or asphalt. It should be operated on dry surfaces. The vacuum must be interrupted (figure 14) if it is necessary to pass over a wet surface. The SweepMaster 28B is provided with a central brush to collect debris, a side brush to clean corners, a vacuum system with filters to prevent dust from being raised and a hopper to contain the collected dirt and debris.

Symbols Used on the Machine



ON/OFF

BATTERY CHARGE INDICATOR

FILTER SHAKE

TRACTION

FLAP LIFTER

VACUUM INTERRUPTION

PARKING BRAKE

BRAKE

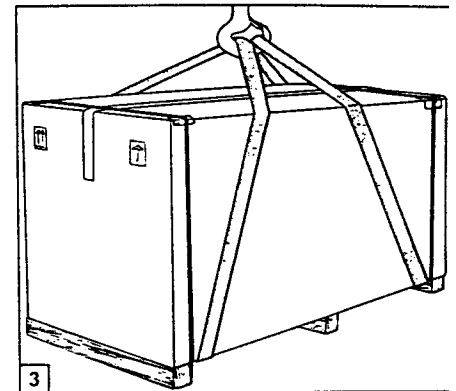
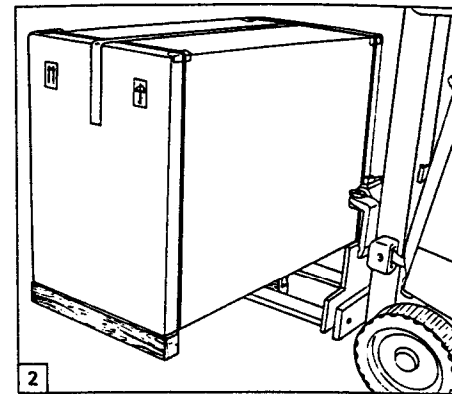
SIDE BRUSH

Machine Preparation

1. Unpacking the Machine

Figure 2-3

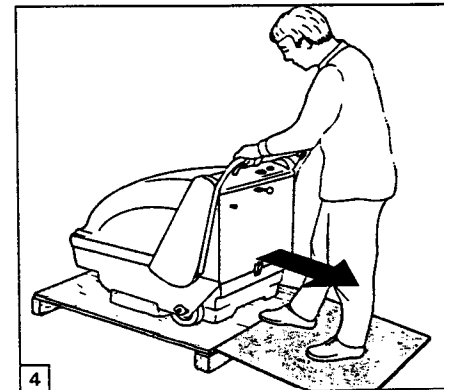
1. To move the machine, use a fork truck or a pulley block with a sling.
2. Remove the outer package.



2. SLIDING THE MACHINE OFF THE PALLET

Figure 4

1. The machine is fixed on the pallet with wooden wedges. These wedges block the wheels.
2. Take the wedges off.
3. Using a ramp, pull the machine down from the pallet in reverse motion. Avoid violent blows to the base.

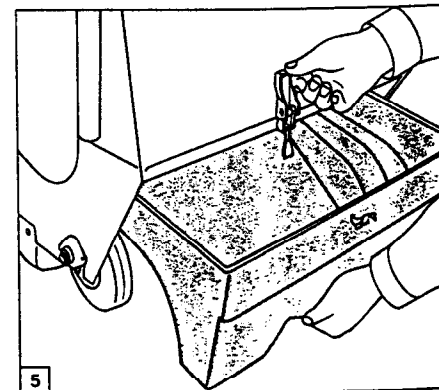


3. SIDE BRUSH INSTALLATION

Figure 5

The machine is shipped with the side brush unattached for packing reasons. Please mount it as follows:

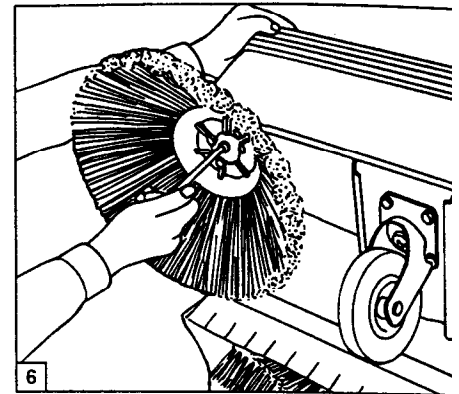
1. Remove the dirt hopper.



Machine Preparation

Figure 6

2. Lift the front part of the machine until it reaches its balance position.
3. Mount the side brush and fasten the screws.
4. Lower the machine back down and replace the dirt hopper.



4. BATTERY INSTALLATION

Figure 7

The machine is shipped with two (2) 6 Volt batteries. The batteries will require charging.

Installation Instructions:

1. Remove the key.

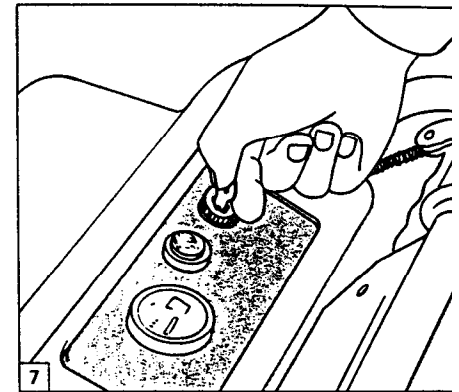
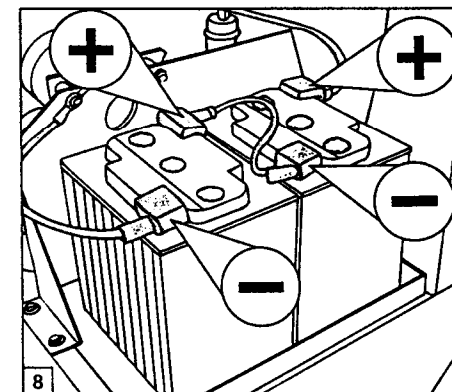


Figure 8

2. Open the cover of the machine.
3. Place the batteries in their compartment, with the polarities as shown in figure 8.
4. Connect the battery cables with the positive and negative connections as shown.
5. Close the cover and insert the key.

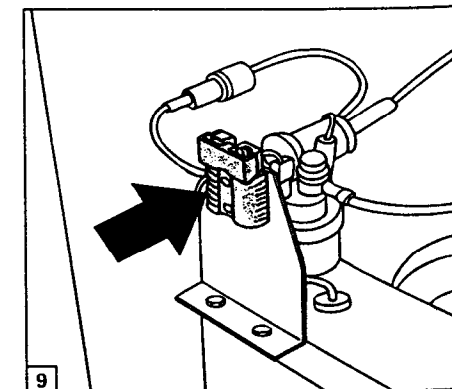


5. CHARGING THE BATTERIES

Figure 9

Turn the key to the OFF position. Connect the DC connector on the charger to the DC connector leading to the battery posts (see figure). Connect the AC charger plug to a receptacle that has the correct voltage and frequency for your charger. Make sure the receptacle is connected to the electrical ground.

NEVER ALLOW THE BATTERIES TO RUN COMPLETELY DOWN, recharge them within a few minutes after the battery indicator starts flashing. Check the electrolyte level every time you charge the batteries. **USE ONLY DISTILLED WATER.**

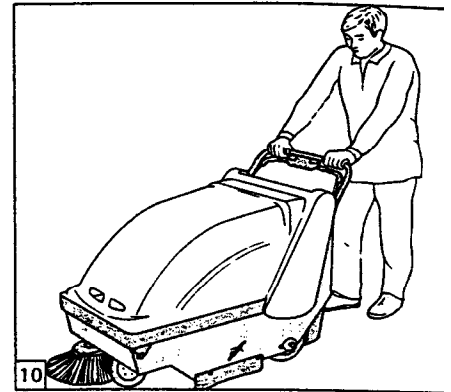


Operation

1. Working Position

Figure 10

The operator stands behind the machine holding the handlebar.



2. Locations of Controls

Figure 11

- Starting Key - Position (a)
- Battery Charge Indicator – Position (b)
- Hour Meter – Position (c)
- Filter Shake Control – Position (d)

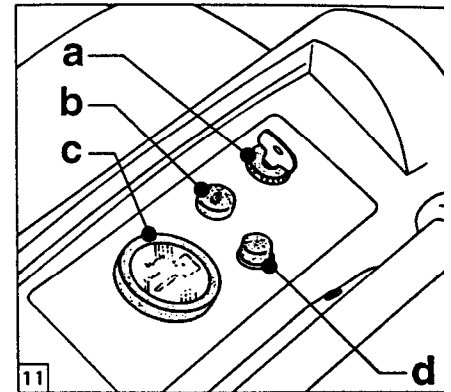


Figure 12

- Traction Lever – Position (a): actuated by the operator.
- Flap-Lifting Lever – Position (b): actuated by the operator. This control lifts the flap in front of the central brush. When the flap is raised larger debris is allowed to pass through and be collected by the central brush.

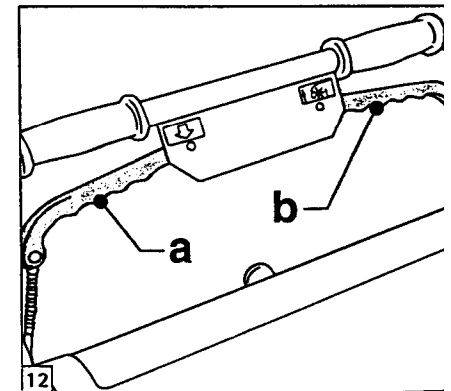
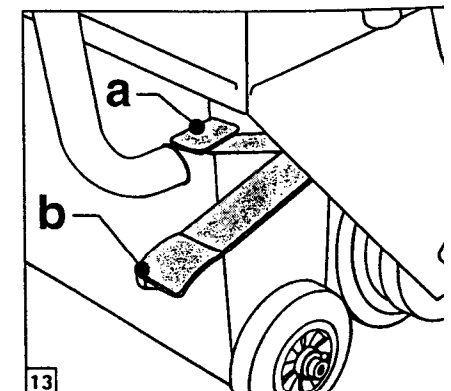


Figure 13

- Side Brush Pedals: The side brush is lowered and starts working by pressing the release pedal (a). Pressing pedal (b) stops the brush and raises it back up.



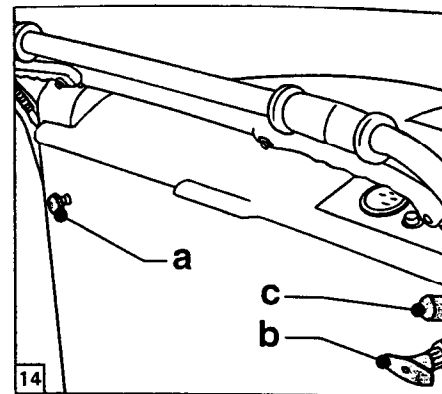
Operation

Figure 14

Vacuum Interruption Knob– Position (a): this actuates a damper to close off the duct and prevent the pick up of debris.

Parking Brake – Position (b).

Brake – Position (c).



3. Operating the Machine

Figure 15

1. Turn the key on and check that the battery charge indicator light is green.

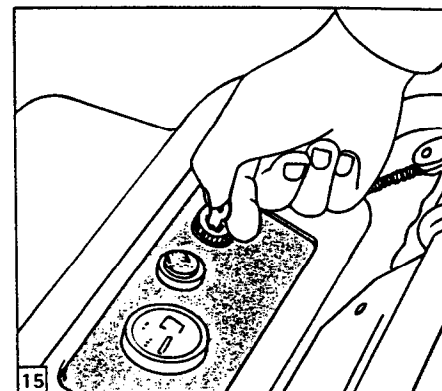


Figure 16

2. Release the parking brake

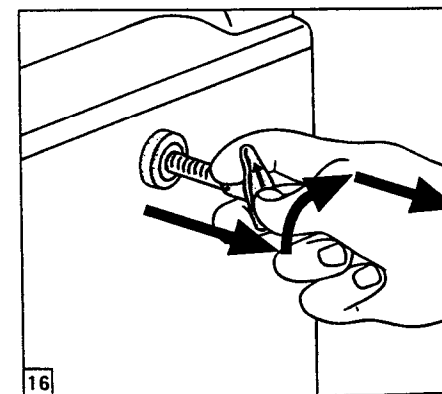
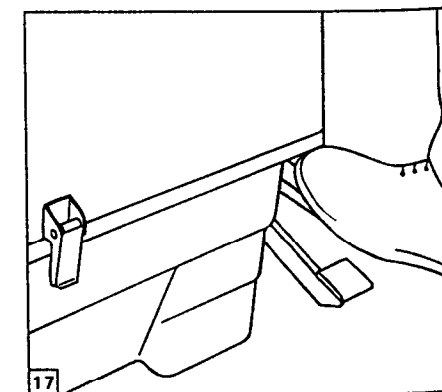


Figure 17

3. Use the side brush when cleaning corners.



Operation

Figure 18

4. Depress the traction lever to make the machine move forward.

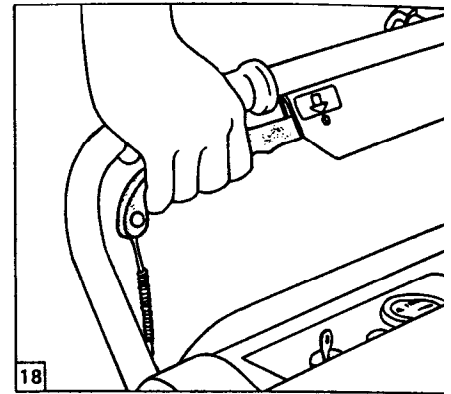


Figure 19

5. Depress the flap lifting lever to pick up larger debris.

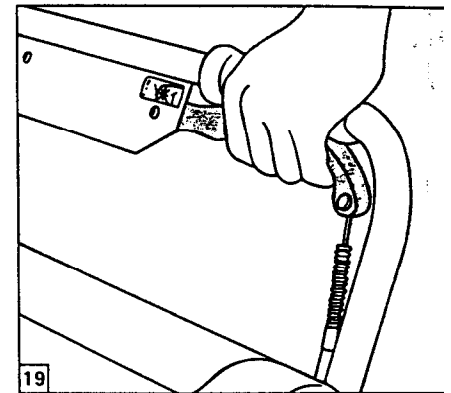


Figure 20

6. Clean the filters every 10 minutes to maintain good performance:
 - a) Stop the vacuum suction by pulling the vacuum interruption knob out.
 - b) Press the filter shake button on the control panel a few times.
 - c) Start the vacuum again by pushing the suction knob back in and continue your work.

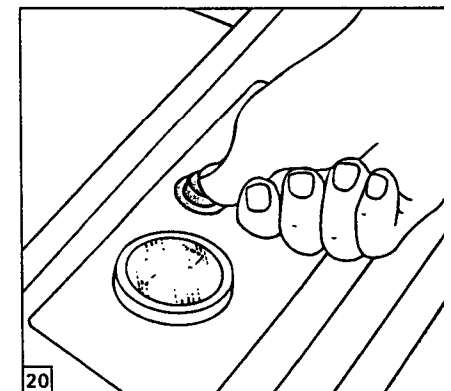
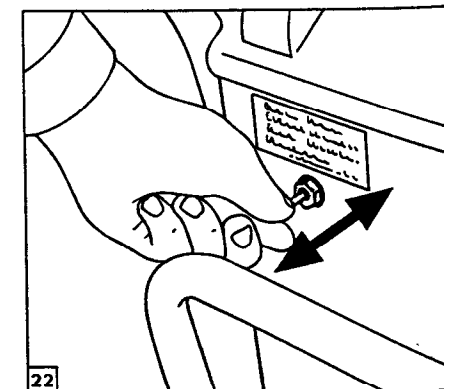


Figure 22

7. Stop the vacuum suction when approaching wet surfaces.



Operation

Figure 23

8. Check the Battery Charge Indicator (b) periodically:
Red means the battery is run down and needs to be recharged. Never allow the batteries to run down completely.
Green indicates that the battery is charged.
9. Refer to the Hour Meter (c) as a reference for scheduling maintenance.

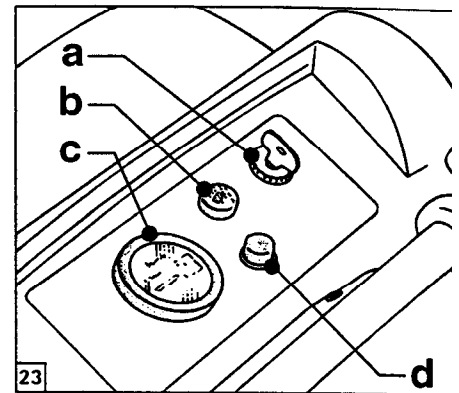


Figure 24

10. Check the hopper regularly to see if it needs to be emptied. Remember that you'll need to carry it, so don't let it get too full.

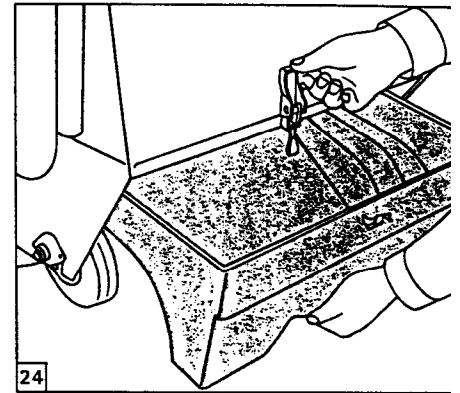
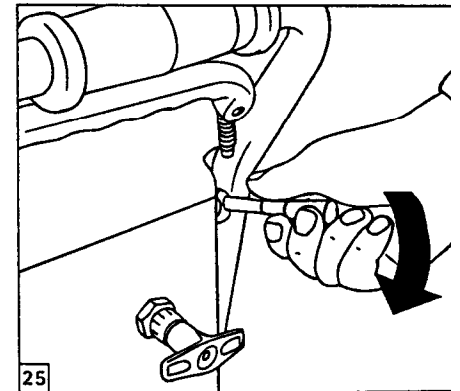


Figure 25

11. Use the brake lever to slow down or stop. The parking brake should be used in emergency situations only and when parked on an inclined surface.



Upon Completion of Work

1. Release the traction lever to stop the machine.
2. Operate the filter shake.
3. Turn the key OFF.
4. Empty the dirt hopper.
5. Apply the parking brake if on an inclined surface.

Maintenance Procedures

NOTE: Always switch the machine OFF and disconnect the batteries before performing any maintenance to the machine.

1. CLEANING THE FILTERS

Figure 26

Clean the filters weekly. Follow these steps:

1. Switch off the machine.
2. Lift the cover.
3. Open the filter cover and disconnect the cable connector on the control panel.
4. Disconnect the cable connector of the filter shaker.

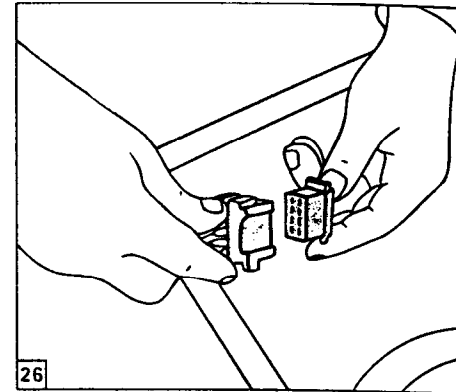


Figure 27

5. Remove the screws from the filter shake bracket.
6. Remove the bracket.

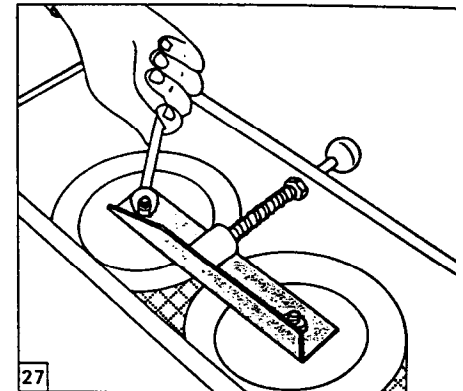


Figure 28

7. Take out the filters and shake off the loose dirt.

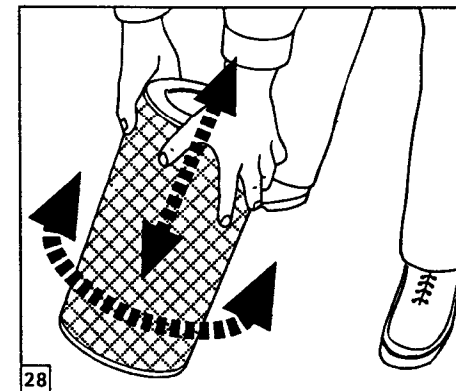
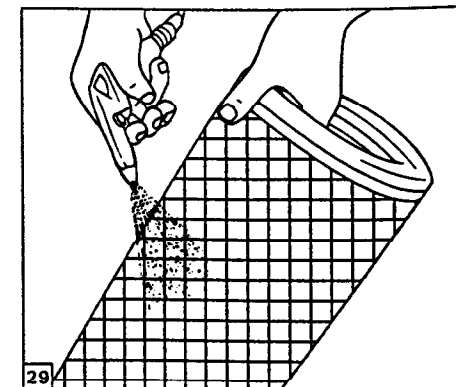


Figure 29

8. Blow the filters with compressed air from a distance of about eight (8) inches. Direct the air from the outside toward the inside of each filter.
9. Reassemble all parts by following the above steps in reverse.

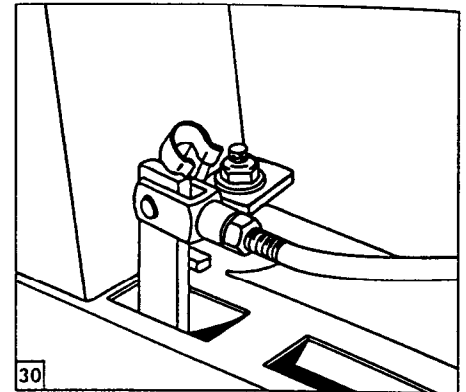


Maintenance Procedures

2. ADJUSTING THE SIDE BRUSH

Figure 30

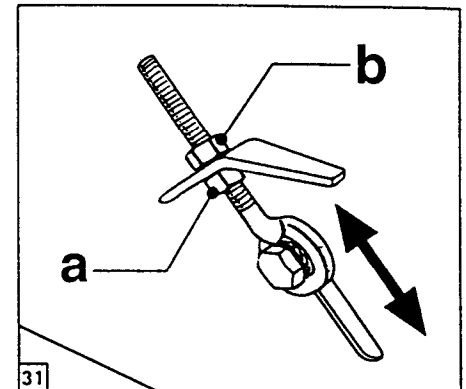
1. Open the cover.
2. Locate the lever that is controlled by the side brush pedal. Then adjust the brush height with the nut on this lever. Approximately 3/4" of the brush should be pressed on the floor.



3. ADJUSTING THE CENTRAL BRUSH

Figure 31

1. The central brush should just touch the floor
2. Adjust the height using the two nuts (a) and (b) on both sides of the machine



4. REPLACING THE SIDE BRUSH

Figure 32

1. Open the cover.
2. Disconnect the battery cables
3. Remove the batteries.

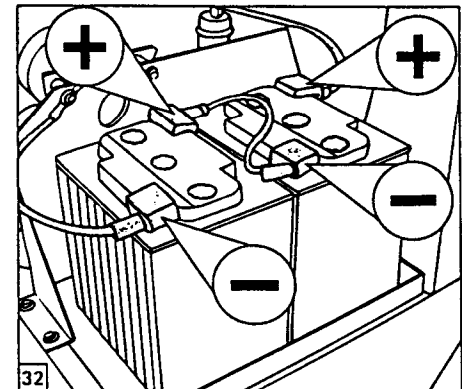
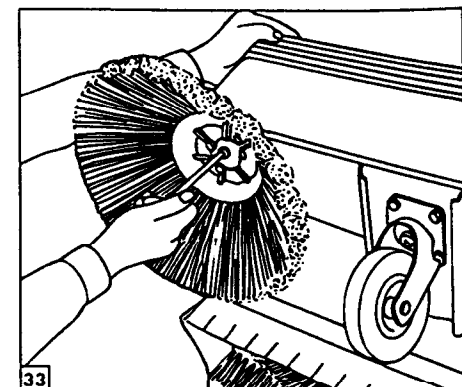


Figure 33

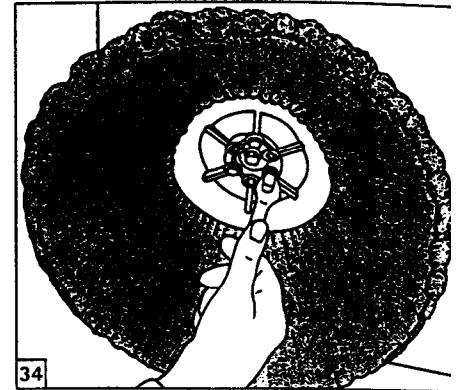
4. Remove the dirt hopper.
5. Lift the front part of the machine until it reaches its balance position.



Maintenance Procedures

Figure 34

6. Remove the three screws and take the worn brush off.
7. Install the new brush and reassemble by following the previous steps in reverse order. See page 5 for battery installation instructions.



5. BATTERY MAINTENANCE

Batteries need preventive maintenance. To keep the batteries in good condition, follow these instructions:

WARNING: Always wear eye protection and protective clothing when working near batteries. **NO SMOKING.**

1. **CAUTION:** Put the main switch in the "OFF" position.
2. Check the level of the electrolyte every time you charge the batteries. If electrolyte is required, add distilled water.
3. Keep the tops of the batteries clean and dry. Keep the terminals and connectors clean. To clean the tops of the batteries, use a damp cloth with a weak solution of ammonia or bicarbonate of soda solution. To clean the terminals and connectors, use a terminal and connector cleaning tool.

Trouble Shooting

CENTRAL BRUSH NOT PICKING UP

1. Empty the dirt hopper if full.
2. Confirm that the brush is adjusted to just touch the floor (less than 1/16").
3. Check the brush for wear; replace if necessary.

THE MACHINE RAISES DUST WHILE WORKING

1. The side flaps may be bent, causing inadequate vacuum pick up - repair or replace if necessary.
2. The filters may be clogged; clean them thoroughly (see page 10).

WARRANTY POLICY

PACIFIC STEAMEX INC. LIMITED WARRANTY

The **Pacific Steamex Inc.** Sweeper has been manufactured, tested and inspected in accordance with specific engineering requirements. This machine is **WARRANTED** to be free from defects in workmanship and materials for periods as follows from the date of purchase.

One (1) Year – All components unless excluded below

This warranty extends to the original user/purchaser and only when used, operated and maintained in accordance with **Pacific Steamex Inc.** Operating and Maintenance instructions.

This warranty does not apply to certain wear parts of the machine such as the brushes, nor does it apply to damage or failure caused by improper use, abuse or neglect. Warranty credit or replacement of return parts is subject to incoming inspection of those items.

To secure repair under this warranty, the following procedure should be taken:

1. The inoperative machine or warranted parts must be delivered to the authorized dealer with shipping and delivery charges prepaid. If unable to locate the Dealer, you may contact **Pacific Steamex Inc.** at the address listed herein for the location of the nearest **Pacific Steamex Inc.** repair center or agent or for other instructions pertaining to your warranty difficulty.
2. Upon compliance with the above warranty procedure, all warranted repairs will be completed at no additional charge or cost to the user.
3. Only **Pacific Steamex Inc.** or its authorized dealers and agents may make no charge warranty repairs on this product. All others do so at their own risk.

This warranty limits **Pacific Steamex Inc.** liability to the repair of the product and/or warranted parts replacement and does not include incidental or consequential damages arising from the use of a **Pacific Steamex Inc.** machine whether defective or not.

BATTERY WARRANTY

In addition to the terms above, any original equipment **Pacific Steamex Inc.** Battery which becomes unserviceable under normal use within a period of ninety (90) days from date of sale to the original user will be repaired or replaced with one of equal specification at our option, F.O.B. any authorized **Pacific Steamex Sales or Service Branch**, with no charge to user, except transportation costs. After the expiration of the above ninety (90) day period, any battery which fails under normal use will be adjusted to the original user with a new battery of equal specification on a twelve (12) month pro rata basis from the date of purchase. Adjustment will be determined using the then current list price, plus transportation costs. Warranty is rendered null and void if battery is not kept filled to the proper level with **DISTILLED WATER**.

This warranty is in lieu of all other expressed or implied warranties and is extended to the original purchaser/user.

PACIFIC STEAMEX, INC.
2259 S. SHERIDAN
MUSKEGON, MICHIGAN 49442-6252
616-773-1330
FAX 1-616-773-1642