

PACER 30 VACUUM

IMPORTANT SAFETY INSTRUCTIONS

Read all instructions before using or servicing machine



WARNING: Shock or electrocution hazard.
ALWAYS unplug machine before performing any maintenance or service.



WARNING: Shock or electrocution hazard.
NEVER connect this machine to an electrical outlet that is not properly grounded.



WARNING: Fire or explosion hazard.
NEVER use to pick up flammable or combustible liquids, or any thing that is burning or smoking, such as cigarettes, matches or hot ashes.

NEVER operate this machine in an explosive atmosphere (grain dust, flammable liquids or fumes, etc.

WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

INTENDED USE

The Pacer 30 vacuum is intended for commercial use, vacuuming floors, furniture, and draperies in an indoor environment. This machine is intended for Dry pickup only. NSS does not recommend using these machines for any other purpose.

When Using An Electrical Appliance, Basic Precautions Should Always Be Followed, Including The Following:

- **ALWAYS** read and understand all instructions before operating or servicing machine.
- **ALWAYS** use this machine **ONLY** as described in this manual.
- **NEVER** attempt to operate this machine unless you have been trained in its operation.
- **NEVER** allow an untrained person to operate this machine.
- **NEVER** leave the machine plugged in to the electrical outlet when not in use.
- **NEVER** unplug the machine from an electrical outlet until after the machine is turned off.
- **If** appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.
- **NEVER** disconnect or modify any switches or safety devices.
- **NEVER** operate this machine if the cord and / or plug has been damaged, broken, cut, abraded or taped.
- **ALWAYS** replace the entire cord when the cord or plug is damaged in any way.
- **NEVER** handle the machine, cord, or plug with wet hands.

- **NEVER** drop or insert any object into any machine opening.
- **NEVER** operate this machine with any air opening blocked. Keep all air openings free of dust, lint, hair, etc.
- **NEVER** pull or carry the machine by it's electrical supply cord, use the cord as a handle, close a door on the cord, pull the cord around sharp edges or corners, expose to heated surfaces, run machine over cord, or set heavy or sharp objects on the cord.
- **NEVER** unplug by pulling on the cord. To unplug the cord from the outlet, grasp the plug, not the cord.
- **NEVER** allow this machine to be used as a toy. Close attention is necessary when used by or near children.
- **ALWAYS** keep face, fingers, hair or any other body part or loose clothing away from any machine opening or moving part (revolving brush).
- **NEVER** use this machine on wet surfaces or for wet pickup.
- **ALWAYS** use extreme care when cleaning on stairs or when machine is placed on stairs.
- **NEVER** operate machine with out dust bag and / or filters in place.
- **NEVER** use any attachments other than the manufacturers recommended attachments.
- **NEVER** spray this machine with water or any liquids.
- **NEVER** operate the machine outdoors.
- **NEVER** expose the machine to rain, snow, or extreme temperatures.
- **ALWAYS** store this machine indoors in a dry, cool area.

ALL REPAIR SERVICE MUST BE PERFORMED BY AN NSS AUTHORIZED DISTRIBUTOR / SERVICE STATION USING ONLY NSS ORIGINAL EQUIPMENT PARTS

SAVE THESE INSTRUCTIONS



IMPORTANT SAFETY INSTRUCTIONS

GROUNDING OF ELECTRICAL EQUIPMENT



WARNING: Improper connection of the equipment–grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the machine – if it will not fit the outlet; have a proper outlet installed by a qualified electrician.

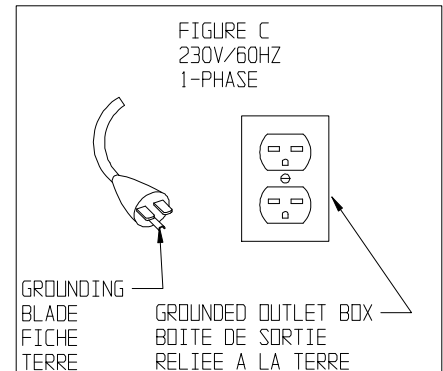
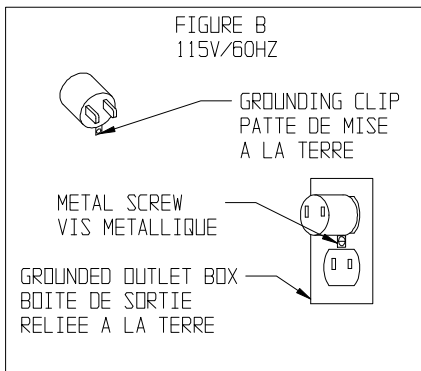
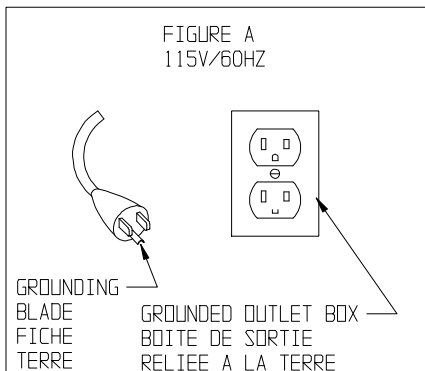
Always use a properly grounded 3-wire extension cord, which has male and female plugs. If 25 foot extension cords are used, the electrical carrying capacity should be no less than 14-3 ST, 50-foot extension cords no less than 12-3 ST.

GROUNDING INSTRUCTIONS

This machine shall be grounded while in use to protect the operator from electric shock. The machine is provided with a three-conductor cord and a three-contact grounding type attachment plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances. The green conductor in the cord is the ground wire. Never connect this wire to other than the grounding pin of the attachment plug.

Check nameplate on the machine to be sure **voltage** and **cycle** stated is the same as the electrical outlet. Do not attempt to plug a 120-volt machine into a 240-volt outlet or a 240-volt machine into a 120-volt outlet. If the machine is provided with an attachment plug as shown in Figure A. below, it is intended for use on a nominal 120-volt circuit. If a properly grounded receptacle as shown in Figure A. is not available, an adapter may be installed as shown in Figure B. if the outlet box that houses the receptacle is grounded. Be sure to fasten the grounding tab (the green colored rigid ear, lug or the like extending from the adapter) with a metal faceplate screw.

If the machine is provided with an attachment plug as shown in Figure C., it is intended for use on a nominal 240-volt circuit. No adapter is available for this plug.



NOTE: In Canada the use of a temporary adaptor is not permitted by Canadian electrical code.

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NOISE AND VIBRATION

NOISE

Sound pressure level at Operator position 69 dB (A)

VIBRATION

Weighted RMS acceleration value (ISO 5349) .638 m/s²

GENERAL INFORMATION

- Now that the machine is unpacked remember to recycle all packing materials.
- Inspect the machine for damage or missing components. If damage is found, contact the local freight company to file a freight claim.

ASSEMBLY

The Pacer 30 requires minimal assembly. The filter bag must be installed properly prior to use. Use of the paper filter facilitates easier disposal.

Filter Bag

The Cloth filter bag may be used with or without the paper filter insert. If a paper filter is used – it must be inserted inside a cloth bag. The cloth bag supports the paper filter. Without the cloth bag the paper filter will burst or be blown out of position.

- Lift the body cover to expose the bag connection.
- Zip open the cloth filter bag. Grasp the rectangular cardboard opening of the bag, and pull this over the bag connection inside the front of the machine.
- Zip the bag closed.

Paper Filter

- The paper filter is to be inserted inside the cloth bag before it is zipped closed.
- First unfold the paper filter.
- Grasp the rectangle cardboard opening of the paper filter, and pull this over the bag connection that is extending inside the cloth bag.
- Tuck the excess paper filter bag into the cloth bag.
- Zip the cloth bag closed.

MACHINE OPERATION

This machine is most productive when used walking forward in a straight line. This machine does not propel itself, but the action of the brush will help to ease the movement.

Adjusting Brush Height

This machine can be adjusted to match the height of the pile of the carpet.

- The height indicator rod, and a calibration label are located at the right rear of the machine.
- Either foot may be used to select the brush setting, by stepping on either foot pedal.
- The setting should always be as high as possible while still properly vacuuming the carpeted floor.

Handle Height

The height of the handle is adjustable for the comfort of the operator.

- Remove the clevis pins on each side of the handle, adjust the handle to a comfortable position.
- Replace the clevis pins.

Control Panel

This machine operates by squeezing the switch levers located on each side of the control panel.

- Squeeze the switch levers to turn ON the machine.
- Release the levers to turn the machine OFF.

Circuit Breaker

The circuit breaker protects the electrical components from overload. If the breaker POPS – check for overload. The overload may be an obstruction in the brush, a full bag, or the brush setting is too low to the floor.

WAND OPTION

This machine may be equipped with the optional WAND feature.

The WAND allows the operator to vacuum overhead items or perform edge cleaning.

- The WAND does not have full power vacuum. When using the wand a portion of the vacuum air is diverted to the wand, while the other portion of the air continues to flow through the brush area – this assures that the vacuum motors are properly ventilated.
- For best wand suction lower the brush adjustment to the lowest position.

Using The Wand

- Remove the wand from the holder.
- Attach the second piece of the wand from the holder on the body cover.
- Choose the crevice or round brush tool and attach the tool to the wand.
- Turn the switch on the control panel ON when the Wand is being used. This will turn ON the vacuum motor but will not turn on the brush motor.
- When finished with the wand, replace the wand into the wand holder.
- Turn the switch on the control panel to OFF, and squeeze the switch levers to operate the machine as normal.

HEPA FILTER OPTION

There are optional HEPA filters available for picking up non-hazardous materials.

MAINTENANCE

Routine maintenance is critical to ensure proper machine operation and cleaning performance. Perform all maintenance procedures as follows:

WARNING: Always unplug machine before performing any maintenance. See front page for warnings

Daily Maintenance

- Inspect the cord and plug for any damage. Confirm that the cord strain relief is being used.
NOTE: To prevent damage to the power cord, ALWAYS store the machine with the power cord coiled loosely over the handle.
- Empty the filter bag after each use. Replace the paper filter daily or when the filter is half full.
- The filter bags must be emptied and cleaned on a regular basis to prevent loss of vacuum suction and possible machine damage. After emptying the filter bag reinstall it back onto the machine.
- Inspect the exhaust filter. Pull the filter out of the slot at the rear of the machine. This filter may be washed with mild dish soap, rinsed and completely dried. Replace with new part as needed.

- Inspect the vacuum motor filters. Tap the filters to remove the dust buildup. Replace with new part when needed.
- Remove any string, hair or other materials wrapped around the brush.

Weekly Maintenance

- Verify that all daily maintenance has been done.
- Inspect the belt for wear and tightness. Replace as needed. The belt must not be too tight. The belt should deflect 1/4" between the thumb and index finger.
- Vacuum the inside of the filter bag (with another vacuum cleaner) for maximum suction and filter bag life.

Monthly

- Verify that all weekly maintenance has been done.
- Oil casters and wheels with a light machine oil.
- Replace casters and wheels as necessary

Every 6 months

- Check the length of the brush bristles. Disassemble the shoe and rotate the bearing blocks to lower the brush or replace brush.
- Check the carbon brushes in the vacuum motors for wear.

TROUBLE SHOOTING

Symptom	Cause	Solution
Machine Does Not Run.	Damaged Switch.	Replace Switch.
	Damaged Cord.	Replace Cord.
	Circuit Breaker "Popped".	Remove Blockage - Reset Breaker.
Machine Has Poor Or No Suction.	Obstruction In Hose, Tool Or Wand.	Remove Obstruction.
	Obstruction In Filter Bag Connector	Remove Obstruction.
	Full Bag.	Empty Or Replace Bag.
	Vac Motor Filters Are Dirty.	Clean Or Replace.
	Vac Motor Worn Out.	Replace.
	Carbon Brushes Worn Out.	Replace.
Machine Is Difficult To Move.	Damaged Wheels / Casters.	Replace.
	Brush Not Properly Adjusted.	Adjust.
	Brush Not Turning - Belt Broke.	Replace Belt.
	Brush Not Turning.	Belt To Tight.
	Brush Not Turning.	Motor Or Capacitor Failed - Replace.
Dirt Inside Chamber	Bag Has A Whole In It.	Replace.
	Bag Zipper Not Closed.	Close.
	Bag Not Properly Connected	Reconnect.
	Gasket At Shoe Not Sealing	Replace Gasket.



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