

Powr-Flite[®]

OPERATOR'S MANUAL

Predator Corded Automatic Scrubber

Model: PAS20E



**WARNING: OPERATOR MUST READ AND UNDERSTAND THIS MANUAL
COMPLETELY BEFORE OPERATING THIS EQUIPMENT.**

Save These Instructions

Your new Powr-Flite® Corded Electric Auto Scrubber will afford you many years of trouble-free operating satisfaction provided it is given proper care. Prior to packaging, your Powr-Flite® Auto Scrubber was inspected by a Quality Control Technician.

UNCRATING

Your Powr-Flite® Corded Electric Auto Scrubber was protectively packed to prevent damage in shipment. We suggest that upon removing the unit from its carton, you carefully inspect it for any possible damage in transit. If damage is discovered, immediately notify the transportation company who delivered your machine. As a manufacturer, we are unable to act upon any claim for concealed damage; you must originate the claim.

POWR-FLITE PREDATOR AUTOMATIC SCRUBBER 20

This manual refers to a corded electric automatic floor scrubber. Designed to be simple, easy to operate and safe, with maneuverability. Routine maintenance has been simplified and reduced to the minimum to keep equipment on the job.

The objective of this manual is to ensure that the machine is operated correctly and performs the service which we offer to our customers. Therefore, we advise you to follow the instructions it contains scrupulously since the manufacturer accepts no responsibility for damage to persons, or things, or damage to the machine if the machine is not operated the way described in this manual or if the maintenance and safety instructions are not fully complied with.

The instructions provided in this manual do not replace the safety instructions and technical data for installation and operation directly applied on the product, nor do they replace the safety standards current in the country of installation and the rules dictated by normal common sense.

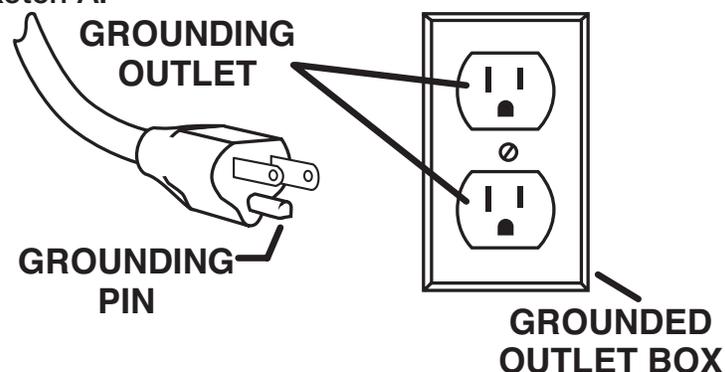
The operator or maintenance worker must advise a person in authority of any faults or deterioration which could affect the original safety of the machine.

GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk electric shock. This machine is equipped with a cord having an equipment -grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

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 appliance - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 120-volt circuit, and has a grounding plug that looks like the plug illustrated in sketch A.



IMPORTANT SAFETY INSTRUCTIONS

All operators must read, understand and practice the following safety instructions. They will be repeated occasionally throughout this manual, and additional warnings may be added for specific cases.

IMPORTANT SAFEGUARDS: This machine is designed to be safe when used to perform the functions specified in the Operator's Manual. Should damage occur to electrical or mechanical parts, the machine should be repaired by the manufacturer or competent service station before using in order to avoid further damage to the machine or physical injury to user.

WARNING: You must have training in the operations of this machine before using it.

READ THIS OPERATOR'S MANUAL.

WARNING: Machines can burn flammable materials and vapors. Do not use this machine with or near fuels, or to pick up grain dust, solvents, thinners, or other flammable materials or liquids.

WARNING: Do not operate this machine unless it is completely assembled.

WARNING: Do not use this machine as a step or to move furniture.

WARNING: When disconnecting power cord from electrical outlet, grasp the plug. Pulling it out by the cord itself can damage cord insulation and internal connection to plug. To prevent electric shock, always remove the electrical plug from the electrical outlet before doing any repairs or maintenance to this machine.

WARNING: To prevent injury, always remove the electrical plug from the electrical outlet before changing the pad or brush and before leaving the machine.

WARNING: To prevent injury, keep hands, feet and loose clothing away from the rotating pad.

WARNING: Maintenance and repairs must be done by authorized personnel only.

WARNING: Never attempt to make emergency repairs or use non-original replacement parts.

WARNING: DO NOT RUN OVER POWER CORD.

WARNING: Never leave the machine unattended, particularly when there are children present.

WARNING: Keep all fasteners tight. Keep adjustments according to specifications.

WARNING: Always use a three-wire electrical system connected to the electrical ground. For maximum protection against electric shock, use a circuit that is protected by a ground fault circuit interrupter. Consult with your electrical contractor.

WARNING: To prevent damage to the power cord, do not let the pad, pad driver, wheels or squeegee touch the power cord when the machine is running. Always lift the power cord over the machine.

WARNING: Make sure all labels, decals, warning, cautions and instructions are fastened to the machine.

WARNING: Operators must read and understand this manual completely before operating this equipment.

WARNING: Loose objects on the floor can become dangerous projectiles if struck by the high-speed pad. Remove them before operating this machine.

WARNING: Keep machine moving to prevent damage to finish or floor.

WARNING: Do not operate this equipment in bare feet or with open-toed shoes or sandals.

WARNING: Store or park this machine on a level surface only.

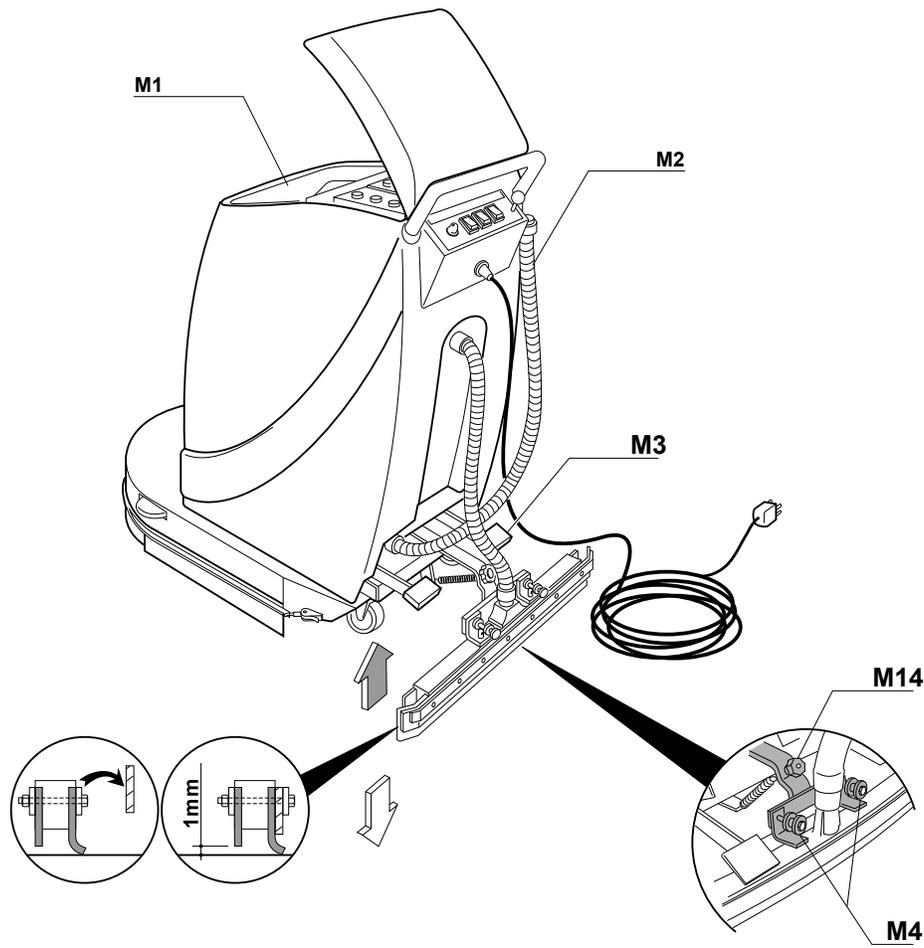
WARNING: These machines are designed for level floor operations only. **DO NOT OPERATE** on ramps or inclines unless adequate personnel are available for assistance.

WARNING: Keep the electrical parts of this machine dry. Do not expose electrical components to water or other liquids. To clean machine wipe down with a damp cloth. Store machine in a building.

Technical Specifications.....	U.S. Standard	Metric
Area per hour	15,000 sq. feet	1425 sq. meters
Solution Tank	8 gallons	30 liters
Recovery Tank	8 gallons	30 liters
Cleaning Width (brush)	20 inches	500 mm
Squeegee Width.....	32 inches	750 mm
Brush Pressure.....	55 lbs.	25 kg
Brush Speed (operating).....	270 RPM	
Brushes	20 inches	500 mm
Brush Motor (power rating).....	1.0 H.P., 115 volt, 750 watts,	12.6 amp max
Vacuum Motor (power rating) (U.L. Listed)		1.25 H.P., 115 volt, 1000 watts,
8.0 amp max		
Vacuum Water Lift	88 inches	
Power Cord (U.L. Listed)	50 feet, 14/3, STW/A	23 meters
Wheels/Casters.....	2 Fixed, 2 Casters, Non-Mar	Polyurethane
Dimensions - Scrubber	43"Lx21.5"Wx39"H	110 cm Lx55 cm Wx100 cm H
Weight	132 lbs	60 kg

THE BASIC DESCRIPTION OF THE MACHINE CAN BE SUMMED UP BY THE FOLLOWING FEATURES:

- 1) Sealed ball-bearing wheels - maintenance free with non-mar polyurethane covered castors and wheels.
- 2) Unprecedented quality & workmanship, simplified control panel.
- 3) Hospital quiet, reduced noise level.
- 4) Bypass vacuum motor with easy access for filter and float cage service.
- 5) High-speed brush drive with 55 lbs. of contouring pad pressure prevents streaking and produces high productivity.
- 6) Solution control conveniently located with ease of operation and dispensing control...user friendly...
- 7) Increased working capacity and productivity offered by higher brush drive speed, increased full contouring pad pressure.
- 8) Rotationally molded design for housing, skirt and tank provide lighter weight, chemical resistance and styling features.
- 9) Design prevents solution contamination with serviceable access to the solution and recovery tanks, vacuum motor.
- 10) Nylon squeegee body with reversible natural rubber squeegees.
- 11) Easy "Safe" access to the drive brush for pad or brush removal without requiring tilting of the unit to rear.
- 12) Squeegee design provides smooth follow operation when cleaning along walls and making runs.
- 13) Formed one piece zinc-plated frame.
- 14) Aluminum brush housing with baked enamel finish.
- 15) Vinyl splash skirt will not corrode.
- 16) Rear mounted quick release drain hose.
- 17) Compact and highly maneuverable.
- 18) Go anywhere portable convenience.



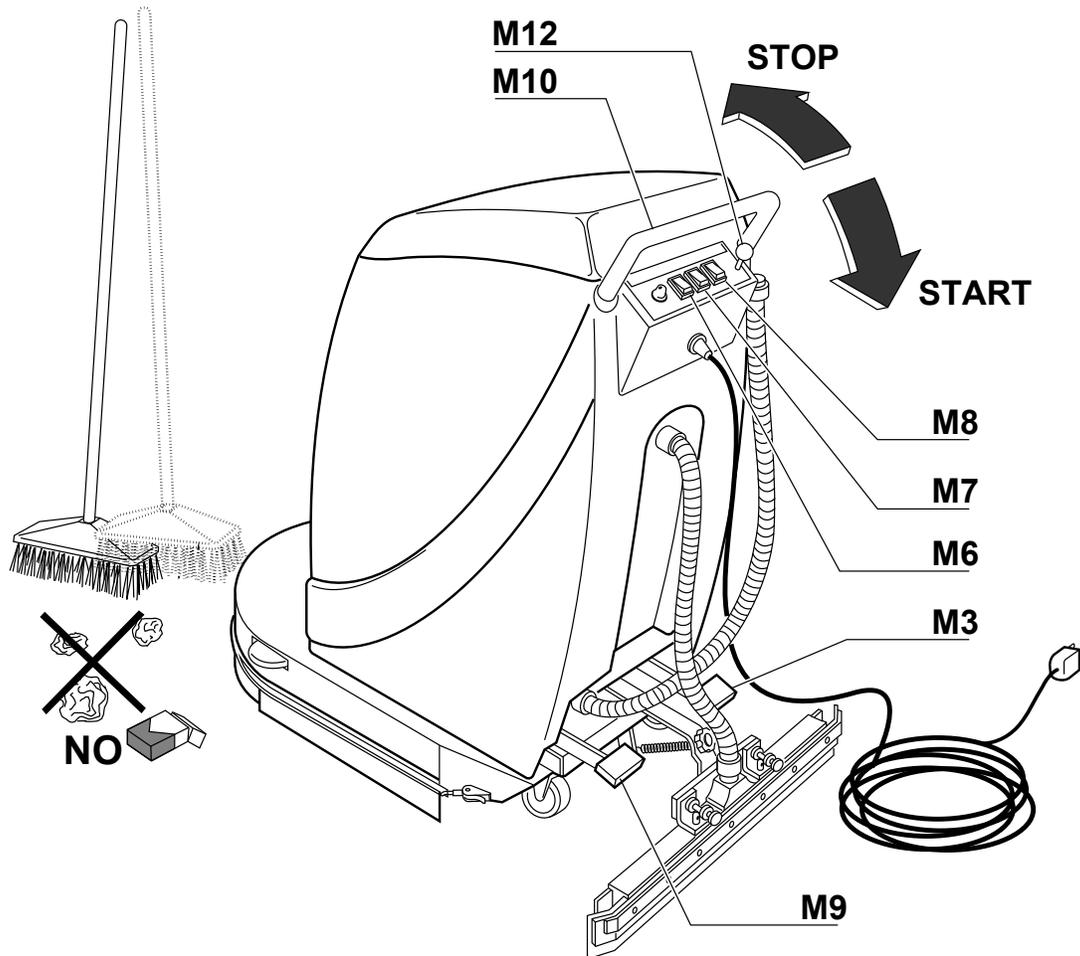
Solution Tank: The solution tank is located under the lid, at the front of the machine, with the filling-funnel M1 in an accessible position for easy re-filling.

WARNING: Always switch off and unplug the machine before filling the solution tank.

Note: Always empty the dirty water collection tank, as described in the next paragraph, before refilling the tank with the diluted detergent solution. The solution tank has a maximum capacity of 17 gallons (30 liters). Always use the products and the dilution quantities recommended by the seller. Always use low foam detergents. Use defoamer if excess foam develops. Remove hose from vacuum intake and pick up defoamer directly into the recovery tank.

Water collection tank: The dirty water collection tank should be emptied, preferably each time after use, so that the dirt does not settle there. To do this, remove the plug of the drain hose M2, which is kept in position by a simple spring clip, and empty dirty water into the proper drain conforming to local regulations.

Squeegee: The squeegee has the final task of completing the drying of the floor and it is very important for it to be in the correct position. Lower the squeegee to the working position by depressing pedal M3 as shown. Adjust the position of the squeegee by means of the knobs M4 so that the black rubber bar is about 1/32" (the thickness of a business card) from the floor. The squeegee behind this is in para rubber and must press on the floor with a certain amount of force. After the first few hours the squeegee adjusts itself to the correct angle and drying becomes even better. Squeegee pressure is adjusted by knob M14.



The area to be scrubbed: Debris and grit must be swept up before starting the scrubbing operation to avoid vacuum line blockage and to permit the detergent to perform efficiently.

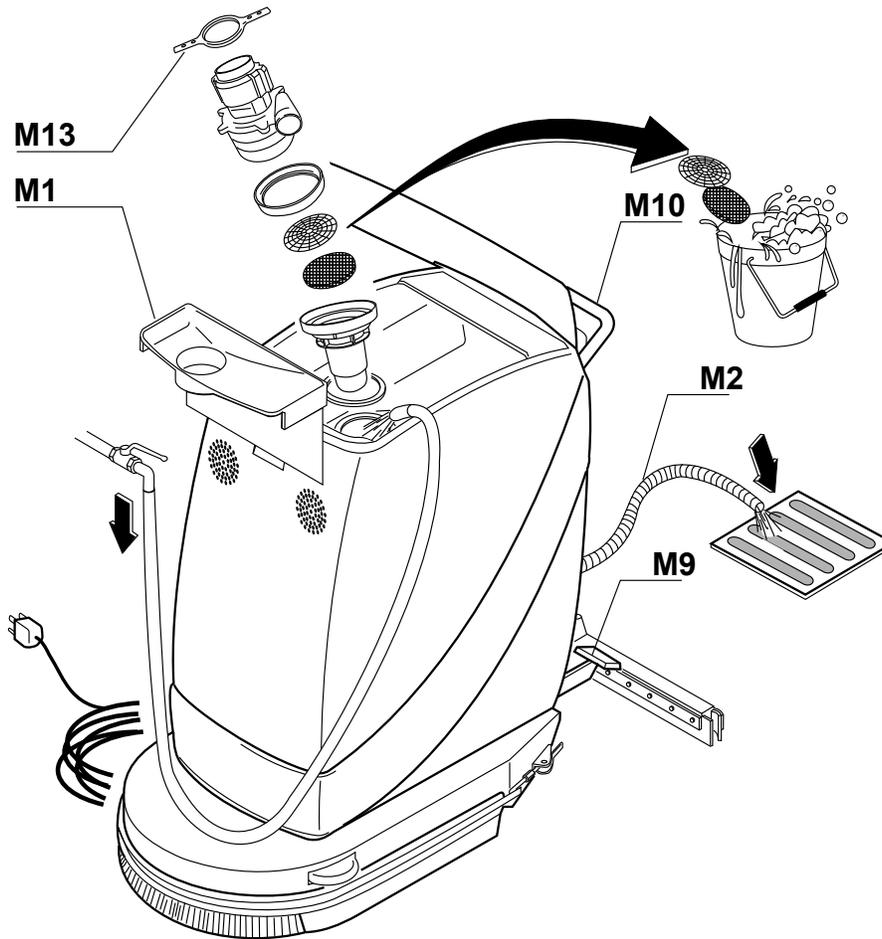
DO NOT OPERATE ON RAMPS OR INCLINES unless adequate personnel are available for assistance.

Starting up and operation: Plug the machine into an outlet position allowing operation by moving away from the outlet.

NOTE: The PAS20E is intended for use with 120V/60Hz cycle grounded circuit. Extension cords are not recommended.

Then: • Press switches **M7** and **M8**. • Lower the brush by pressing pedal **M9**. • Lower the squeegee by depressing pedal **M3**. • Set the detergent solution supply to minimum by adjusting knob **M12**. Experience will help with the selection of the correct solution amount. Moving outward away from the outlet will allow the cord to be kept off of a dirty floor and also from dragging dirt into the cleaned path. • Depress the handle (**M10**) to begin scrubbing with the brush. Release the handle (**M10**) to stop the brush from turning.

Particularly dirty floors: Certain floors or areas may require special attention and, in some cases, cleaning twice. Go over the floor quickly the first time, with the squeegee raised and the brush in the working position. In this way, the detergent solution is left on the floor for a longer time and can dissolve the heavy dirt. The second time, go over the floor more slowly with both the brush and the squeegee lowered.



Squeegee: Every week, check the blades of the squeegee and wash them carefully. Then replace them in the correct working position. If drying is not perfect even after the unit has been cleaned, replace any blades which are excessively worn. If the squeegee does not pick up enough water or streaks, lift and wipe off the blades.

Pad Driver: The pad driver or brush must be in good working condition because it is the component which removes the dirt. To remove the brush/ pad driver from the machine:

- Depress the brush pedal (M9) to lift the brush.
- With the brush in the air depress the handle (M10) to rotate the brush.

- Release the handle and the brush will release from the machine and fall to the floor. To replace the drive block, pad or brush:
- Center the brush/pad driver under the front of the machine.
- Release the brush pedal (M9) to lower the brush drive motor on to the brush/pad driver.
- Turn the brush motor on by depressing the brush switch (M7). The brush/pad driver should lock in place.
- If the brush/pad driver does not connect, small adjustments are needed from one side to the other to make the brush/pad driver lock in place. Brushes in tynex, poly and steel are available on request, together with floor pads recommended for use with the pad driver. Black for stripping, green for deep scrub, blue for cleansing and red for light scrub.

Water collection tank: This tank should be cleaned every week. Lift the lid and remove the panel or funnel M1 of the solution tank. Remove the strap M13 and lift the vacuum motor out of its seat. Thoroughly clean the filter and wash out the dirt deposited in the tank with a jet of water, allowing it to drain out through hose M2. If necessary, replace filter. Replace float cage with open side facing front of scrubber.

Fault diagnosis

WARNING - Before performing maintenance or making adjustments, switch off the machine and unplug from the electricity supply.

The following simple checks may be performed by the operator.

Trouble	Reason	Solution
The brush does not rotate	Brush rotation button not pressed on handle controls	Press the button
Vacuum does not work	Vacuum button not pressed on handle controls	Press the button
The machine does not dry well, leaving traces of water	Vacuum off Vacuum tube blocked Squeegee rubbers not correctly set up Recovery tank full Squeegee rubber blades worn	Start the vacuum Check and if necessary clean the vacuum tube that connects the squeegee to the recovery tank Correct squeegee position Empty the recovery tank Replace or tun over the squeegee blades
No water comes out	Tank empty Solenoid valve button not pressed on handle controls Tap turned off Filter blocked Solenoid valve does not work	Fill the tank Press the button Turn on the tap located at the bottom of the machine Clean the filter Call Powr-Flite technical support
Insufficient floor cleaning	Unsuitable brushes or detergent Brush worn	Use brushes or detergents which are suitable for the type of floor or dirt to be cleaned Replace the brush

For warranty information go to www.Powr-Flite.com

Powr-Flite[®]

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