

ALL CLEANER



OPERATOR MANUAL

Advance MODEL 56380772



IMPORTANT SAFETY INSTRUCTIONS

This machine is only suitable for commercial use, for example, in hotels, schools, hospitals, factories, shops, and offices other than normal residential housekeeping purposes.

When using an electrical appliance, basic precautions should always be followed, including the following:
READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE.

WARNING

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

- Always use the power cord that comes with the machine and includes a GFCI (Ground Fault Circuit Interrupter). Never use the machine without connecting to power through a GFCI.
- Do not leave the machine when it is plugged in. Unplug the unit from the outlet when not in use and before servicing.
- To avoid electric shock, do not expose to rain or snow. Store and use indoors.
- Do not allow to be used as a toy. Close attention is necessary when used near children.
- Use only as described in this manual. Use only the manufacturer's recommended attachments.
- Do not use with a damaged cord or plug. If the appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.
- Do not pull by the cord, use the cord as a handle, damage the cord, or allow the cord or the machine near heated surfaces.
- Do not unplug by pulling on the cord. To unplug, grasp the cord end.
- Do not handle the plug, the cord, or the machine with wet hands.
- Do not put any objects into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
- Keep loose clothing, hair, fingers, and all parts of your body away from the openings and moving parts.
- Do not pick-up anything that is burning or smoking, or any health endangering dusts.
- Turn off all controls before unplugging.
- Always use chemicals with a pH between 4 and 12, and never introduce the chemicals in the tank. Always use the chemical siphoning system.
- Use extra care when cleaning on stairs.
- Do not use to pick up flammable or combustible liquids, and do not use in any areas where these may be present.
- If foam or liquid comes out with the vacuum exhaust, switch the power off immediately. Verify that there are not foreign objects from preventing the float ball from moving freely. Contact Nilfisk-Advance if the problem persists.
- Liquid ejected at the spray nozzle could be dangerous as a result of its temperature, pressure, or chemical content.

SAVE THESE INSTRUCTIONS

INTRODUCTION

This manual will help you to get the most from your Nilfisk-Advance All Cleaner. Read it thoroughly before operating the machine.

This product is intended for commercial use only.

PARTS AND SERVICE

Repairs, when required, should be performed by Nilfisk-Advance service personnel using original replacement parts and accessories. Call Nilfisk-Advance for repair parts or service.

Please specify the Model and Serial number when calling about your machine.

NAME PLATE

The model and serial number of your machine are shown on the Name Plate on the machine.

This information is needed when ordering parts for the machine.

Use the space below to note the model and serial numbers of your machine.

MODEL NUMBER/NAME: _____

SERIAL NUMBER: _____

NAME AND PHONE NUMBER OF YOUR DISTRIBUTOR: _____

UNPACKING

When the machine arrives, carefully inspect the shipping carton and the machine for damage. If damage is evident, save the shipping carton so that it can be inspected by the carrier.

Contact the Nilfisk-Advance customer service department immediately to file a freight damage claim.

DO NOT OPERATE THE MACHINE UNTIL YOU HAVE READ THIS SECTION IMPROPER USE WILL VOID THE WARRANTY

- Always use a defoamer when foaming occurs to prevent vacuum motor damage.
- To keep fittings, pumps, and lines from damage during freezing conditions, use RV anti-freeze in the pump or keep the machine inside heated areas.
- Do not let the pump run dry.
- All chemicals should be added through the feed system and NOT in the tank.
- All extension cords must have a rating of at least 12/3 (12 gauge cord). Extension cords should be no longer than 50 feet. Replace the plug immediately if the ground prong becomes damaged or is broken off.
- DO NOT use water heated to greater than 120 °F (54 °C).

KNOW YOUR MACHINE DESCRIPTIONS

Operator Handle (1): Operator holds onto this handle to move the machine from one location to another.

Solution Tank Lid (2): This lid screws off so the tank can be filled. The solution fill hose is tethered to the lid, and hangs inside the arm of the Operator Handle.

Recovery Tank Lid (3): This lid covers the opening in the Recovery Tank. This is where the operator can access the tank to clean it and the ball float cage. The tank can be flushed out by running clean warm water into this opening and laying the open drain hose into a bucket or drain.

Recovery Hose (4): Waste water is picked-up through this hose.

Spray Hose (5): This hose delivers water from the machine to the cleaning tool.

Drain Hose (6): This hose is used to empty the recovery tank. NOTE: hold the end of the hose above the water level in the tank to avoid sudden, uncontrolled flow of waste water when you remove the cap, then lower the hose slowly to control the rate of discharge.

Quick Disconnect (7): Point of attachment for the Spray Hose (5).

Tools & Accessories (8): Various accessories can be stored on the machine.

Castors and Wheels (9): Castors pivot for ease of steering, and large back wheels make it easy to roll the machine from location to location.

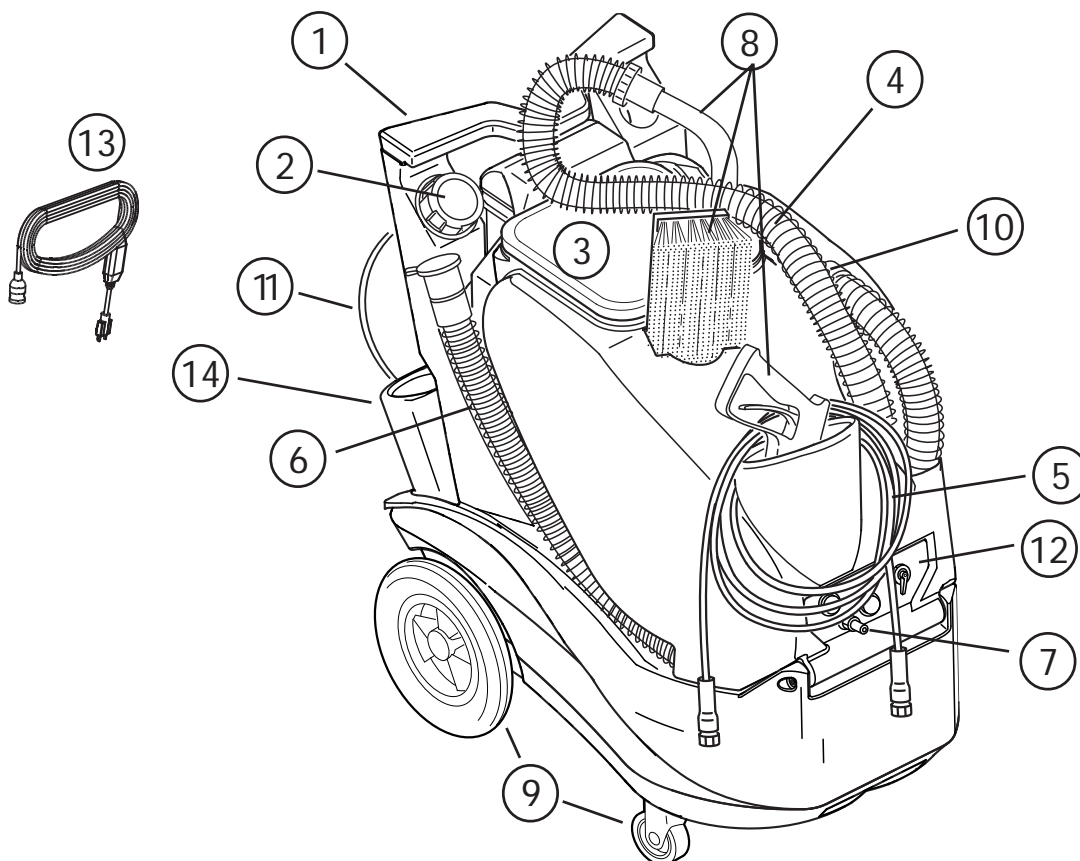
Recovery Hose Inlet (10): Point of attachment for the Recovery Hose (4).

Chemical Feed Lines (11): These clear tubes connect the cleaning chemical containers to the machine where the chemical can be siphoned into the outlet water from the pump. Metering tips -- used to change the ratio of water to chemical -- are installed here.

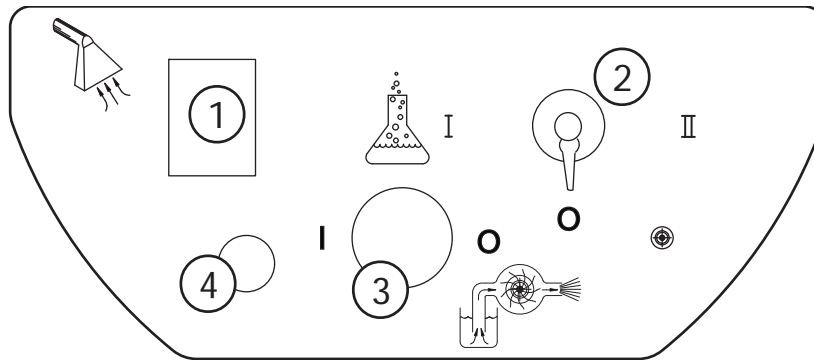
Switch Plate (12): The machine's on/off switches for the vacuum and for the pump are located here and this is where the valve to change chemical feeds is located.

Power Cord (13): The 25 ft. power cord connects to a power cord pigtail on the rear of the machine.

Chemical Container Holders (14): Two molded-in bottle holders for chemical jugs.



KNOW YOUR SWITCH PLATE



Vacuum Switch (1): turns on the vacuum motor.

Chemical Valve (2): switches between the two chemical containers. When the selector is pointed straight down, the valve is off and neither chemical is selected. When the selector is pointed directly towards one or the other symbols, that chemical is selected.

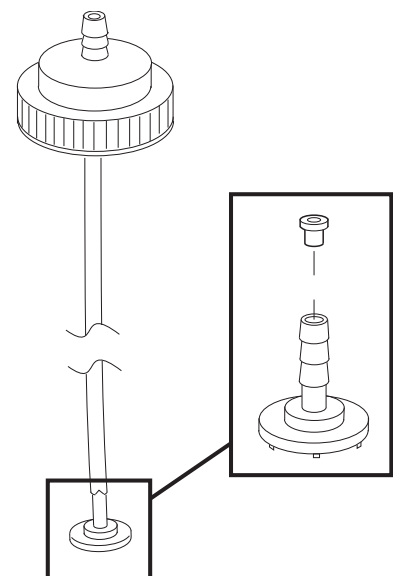
Solution Pump Switch (3): turns on the solution pump.

Quick Connect (4): this is where solution comes out of the machine and the attachment point for the solution hose.

METERING TIPS

The chemical metering tips allow you to select the ratio of chemical to water, as the water flows out of the machine. Insert the correct metering tip for the desired mixture into the chemical siphon tube.

METERING TIPS			
COLOR	HOLE SIZE	MIX RATIO	FLOW RATE
Orange	0.007	1 oz : 128 oz	1.0 oz/gal
Pink	0.012	1 oz : 64 oz	2.5 oz/gal
Dark Green	0.014	1 oz : 50 oz	3.0 oz/gal
Yellow	0.016	1 oz : 32 oz	5.0 oz/gal
Light Blue	0.020	1 oz : 20 oz	6.0 oz/gal
Burgundy	0.022	1 oz : 15 oz	9.0 oz/gal
Black	0.048	1 oz : 5 oz	20 oz/gal



OPERATION

- 1) Insert the appropriate metering tips into the chemical feed lines (see illustration, page 5).
- 2) Fill the holding tank with warm water (not exceeding 120 °F). **Do not** add any chemical to the tank.
- 3) Prepare the area for cleaning by emptying waste receptacles, clearing debris, removing paper products, blowing out vents, and sweeping floors.
- 4) Connect the 25 ft power cord to the pig-tail on the rear of the machine. Test the GFCI on the power cord before each use. Plug the GFCI protected power cord into an outlet.
- 5) **PRIME THE PUMP:** Attach the priming hose to the outlet quick disconnect and place the open end of the hose into the recovery tank. Turn on the pump and let it run until the pump is completely primed (no visible air in the water stream). Turn the pump off.
NOTE: prime the machine before you place the chemical feed tubes into chemical containers.
- 6) Disconnect the priming hose and attach the solution hose to the quick disconnect.
- 7) Attach the spray gun to the other end of the solution line.
- 8) Place chemicals in the molded-in chemical bottle containers on the rear of the machine. Insert one of the feed lines into one of the chemical containers. Secure the line by screwing on the cap. The chemical will feed from whichever container the selector valve on the switch plate is turned towards and when the gun is used in the low pressure setting. Use chemicals with a pH of between 4 and 12. Never add chemicals to the clean water tank.
- 9) Set the spray gun to low pressure by sliding the pressure selector forward (low pressure = forward; high pressure = back).
- 10) Turn on the pump switch (push button) and spray through the gun for a few seconds to fill the line with solution.
- 11) Apply the chemical to the walls and fixtures from the bottom up. Spray the floor last as you work your way out of the room.
- 12) Allow the chemical to work for the proper amount of dwell time, according to the chemical manufacturer's directions. Agitate heavily soiled areas with a scrub brush.
- 13) Turn off the chemical injector valve by turning the selector to the down position.
- 14) Set the spray gun to high pressure and rinse the area from the top down.
- 15) Connect the vacuum hose, attach the squeegee, and turn on the vacuum (rocker switch).
- 16) Squeegee off the mirrors, pick up the liquid off the floor with the floor tool. If you have the optional blow dry hose, use it to dry the fixtures.
- 17) Drain the recovered water into a utility sink or toilet. **NOTE:** Keep the top of the drain hose higher than the water level in the tank to avoid uncontrolled discharge of water when you open the cap on the hose.

CAUTION

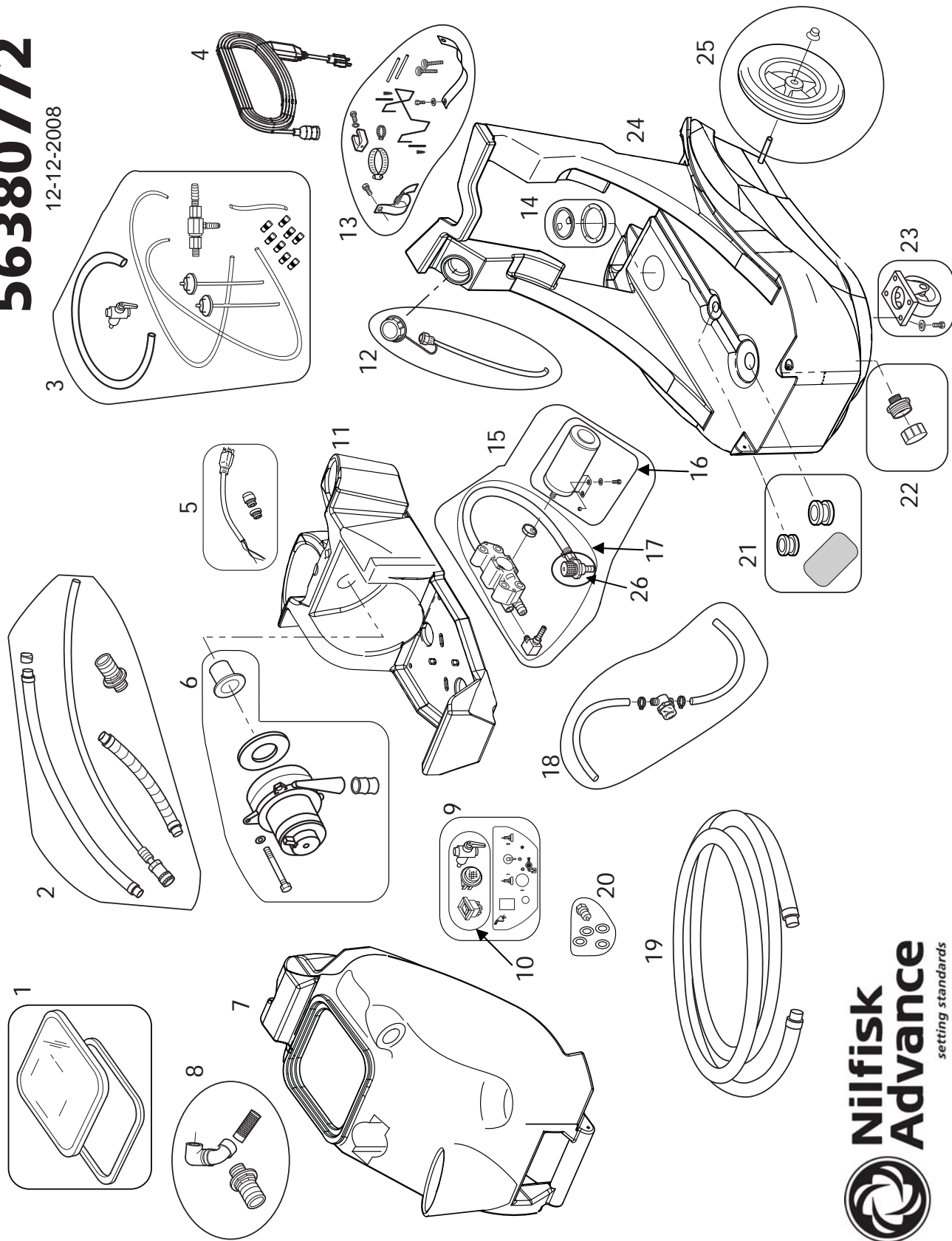
To avoid vacuum motor damage, always use a defoamer any time foam is present. Before you turn on the vacuum always make sure the filter screen on the ball float is clean and that the ball can travel freely.

RE-PRIMING THE PUMP

If the pump loses prime between jobs, follow the instructions to PRIME THE PUMP, above. If that doesn't get water flowing, put the priming hose into the vacuum inlet hose barb and cover the rest of the space around the priming hose with your hand. Turn on the vacuum (with the pump also running) and let the suction of the vacuum assist in getting water into the pump.

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PART LIST

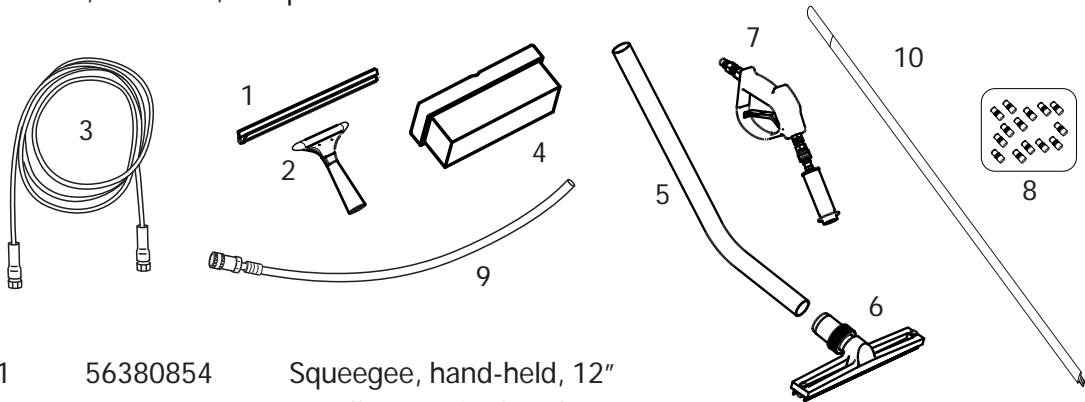
<u>ITEM</u>	<u>PART No.</u>	<u>QTY</u>	<u>DESCRIPTION</u>
1	56380775	1	Lid and gasket, recovery tank
2	56380780	1	Hose kit, drain, priming and vac inlet
3	56380782	1	Hose kit, water and chemical metering
4	56380774	1	Power cord, 25 ft, with GFCI
5	56380783	1	Power cord pigtail with cord retainer
6	56380781	1	Vacuum motor kit, with gasket and hose
7	56380785	1	Tank, Recovery, complete
8	56380779	1	Vacuum inlet kit
9	56380786	1	Switch plate kit, complete
10	56380847	1	Switch kit, three switches
11	56380840	1	Pallet, component mounting, empty *
12	56380793	1	Lid, with fill hose, holding tank/base
13	56380843	1	Fasteners kit
14	56380841	1	Lid and ring, 4"
15	56380789	1	Pump and motor, 200 psi, complete
16	56380791	1	Motor, DC, pump drive
17	56380790	1	Pump, 200 psi, complete, no motor
18	56380788	1	Filter, pump in-line, with hoses
19	56380879	1	Vacuum hose, 15 ft, complete
20	56380787	1	Quick disconnect kit, with washers
21	56380851	1	Grommets and foam
22	56380797	1	Cap, drain, and brass fitting
23	56380798	1	Castor kit
24	56380795	1	Holding tank/base
25	56380799	1	Wheel kit
26	56380893	1	Pressure regulator, for 200 psi pump

MISCELLANEOUS PARTS

56380844	Label kit, "All Cleaner" & warning
*56380867	Pallet assembly with components, complete

TOOLS

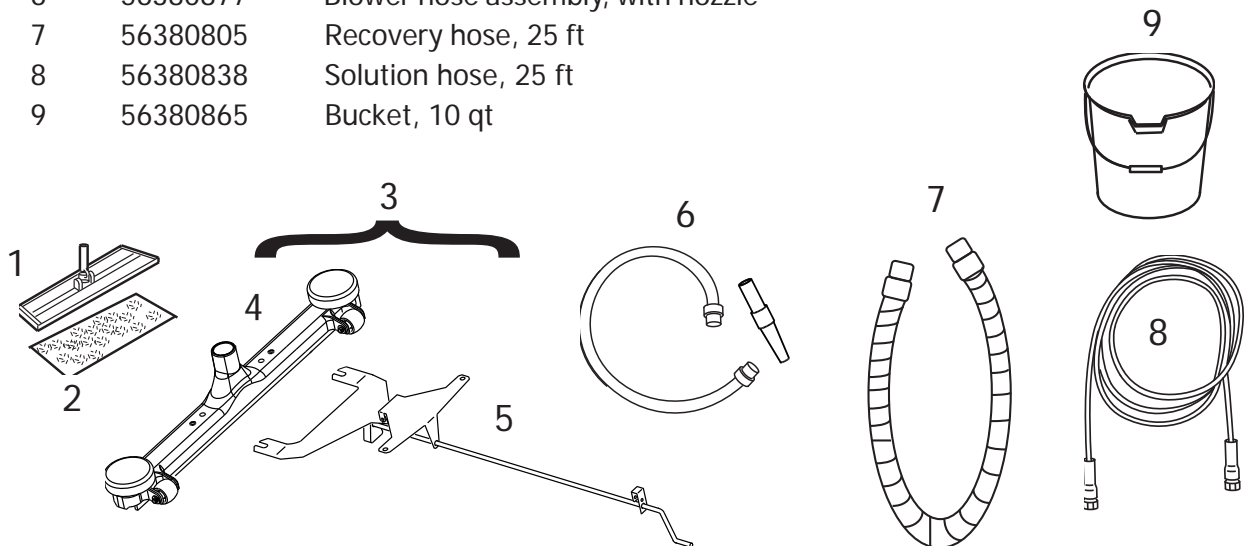
Tool Kit, standard, complete -- #56380846



1	56380854	Squeegee, hand-held, 12"
2	56380853	Handle, 12", for hand squeegee
3	56380804	Solution hose, complete, 15 ft
4	56380855	Brush, dual surface, polypropylene
5	56108027	Wand, two-piece, snap fit
6	56108028	Squeegee, 14', for floor
7	56108072	Spray gun, complete
8	56380802	Metering tip kit, two each of seven sizes
9	56108024	Priming hose assembly, for 200 psi pump
10	56380852	Handle, black, 54"

OPTIONAL ACCESSORIES

1	56380856	Mop frame
2	56380857	Mop, microfiber, package of six
3	56380870	Machine mount squeegee assembly, complete
4	56209088	Squeegee head assembly
5	56380871	Mount assembly, mechanical, for squeegee head
6	56380877	Blower hose assembly, with nozzle
7	56380805	Recovery hose, 25 ft
8	56380838	Solution hose, 25 ft
9	56380865	Bucket, 10 qt



MAINTENANCE

- 1) Use only approved chemicals at the recommended mix ratios. All chemicals should be added through the feed system and NOT added directly to the water in the solution tank to prevent possible damage to the pump, seals, or other components.
- 2) For optimum performance, flush the Chemical Feed lines after every job by replacing the chemical containers with containers of clear water and spraying through the gun until the fluid stream is clear. See the Maintenance Schedule, below.
- 3) The pump seals and/or valves in the high pressure pumps may need to be replaced after about 1000 hours of use, if the pump begins to loose performance or to leak. The pressure regulator valve may need to be when a drop in the spraying pressure at the tool is apparent.
- 4) If the 4", clear lid is removed from the top of the base (solution tank), you will need to apply a silicone sealant to the threads when you reinstall the lid to seal for vacuum leaks.

MAINTENANCE SCHEDULE				
ITEM	DAILY	WEEKLY	QUARTELY	YEARLY
Flush chemical lines	X			
Check/clean vac inlet filter	X			
Clean solution filter		X		
Check vacuum motor airways		X		
Check pump for leaks			X	
Check vacuum motor brushes *				X

* Have Niflisk Advance check the carbon brushes once a year or after about 500 hours of operation.

TECHNICAL SPECIFICATIONS

Vacuum motor:	2-stage, 8 amp
Water lift:	97"
Air flow:	100 CFM
Tank constructions:	Rotationally molded polyethylene
Solution tank capacity:	20 gallon
Recovery tank: capacity:	12 gallon
Application flow:	200 psi
Vac & Solution hose length:	15 feet
Power cord:	25 feet
Height:	38.5 inches
Width:	21.25 inches
Length:	34 inches
Machine weight:	92 lbs

NOTES:



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