PREDATOR CXH100

IMPORTANT SAFETY INSTRUCTIONS



READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE OPERATING OR SERVICING MACHINE



DANGER!

Failure to Observe These Instructions Can Cause Personal Injury to Machine Operator, By-standers or Possible Machine Damage.

- NEVER attempt to service or perform maintenance functions while machine is plugged into an electrical
 outlet
- ALWAYS unplug machine before attempting to service the motorized brush attachment.
- NEVER operate in standing water. NEVER expose to rain. ALWAYS store indoors.
- **NEVER** overfill recovery tank or allow water to enter vacuum standpipe. This will cause damage to the vacuum motor and possible electrocution.
- **NEVER** operate machine with a cut, abraded or taped cord.
- **NEVER** operate machine with a broken grounding blade on the plug.
- ALWAYS replace the entire cord when the cord or plug is damaged in any manner.
- **NEVER** handle the machine, cord or plug with wet hands.
- NEVER drop or insert any object into any machine opening.
- **ALWAYS** keep face, fingers, hair or any other body part, or loose clothing away from any machine opening or any moving part, particularly the revolving brush.
- **NEVER** leave the machine unattended when plugged in. Unplug the machine from the electrical outlet when not in use.
- ALWAYS turn the machine off before unplugging it from the electrical outlet.
- NEVER operate this machine in the presence of flammable or combustible liquids or fumes.
- When any electrical motor, switch, cord or plug service is required, maintenance should only be done by an authorized service station, an electrician or other qualified persons.
- **NEVER** operate this machine if it is not working properly, if it as been dropped, damaged, exposed to weather, or dropped into water. Return the machine to a service center for examination and repair.
- **NEVER** operate this machine with any air opening blocked. Keep all air openings free of dust, lint, hair,
- **NEVER** operate this machine without solution tank filter screens or vacuum standpipe filter screen in place or if they are clogged. Clean all filter screens after every use.
- ALWAYS store this machine indoors. Protect it from rain or snow.
- **NEVER** spray the top of the machine with liquids.
- **DO NOT** pull or carry this machine by the electrical supply cord, use the cord as a handle, close a door on the cord, pull the cord around sharp edges or corners, or expose to heated surfaces.
- **NEVER** disconnect the plug by pulling on the cord. To disconnect the cord from the outlet grasp the plug, not the cord.
- ALWAYS unplug this machine before attempting to service.
- **ALWAYS** use a defoamer which will prevent a buildup of foam in the recovery tank. If a defoamer is not used, the motor can be damaged from shampoo being pulled into the vacuum motor.

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INFORMATION & OPERATING INSTRUCTIONS

DO NOT OPERATE MACHINE UNTIL YOU HAVE READ THIS SECTION IMPROPER USE OF THE PREDATOR CXH100 WILL VOID THE WARRANTY

- 1. Always use a rag to prevent burns when handling quick-disconnects.
- 2. Always use a defoamer when foaming occurs to prevent vacuum motor damage.
- 3. To keep fitting and lines from damage during freezing conditions, use an antifreeze in the pump and heater or keep equipment inside heated areas.
- 4. Do not let pump run dry.
- 5. Use neutral pH, water-based products only NO SOLVENTS!

INSPECTION:

Carefully unpack and inspect the PREDATOR CXH100 for shipping damage. Each unit is tested and inspected before shipment. Any damage incurred is the responsibility of the carrier, who should be notified immediately.

CLEANING SOLUTIONS:

We recommend liquid cleaning chemicals. Powders may be used, but unless mixed very thoroughly, they could cause build-up in the lines, pump, quick-disconnects, etc. A pH of 7-9 is strongly recommended to avoid premature pump wear, which would void the warranty.

MAINTENANCE:

For optimum performance, flush the machine with clear water at the end of each working day. Once a month, minimum, run a flushing compound through the machine to cut any alkaline build-up that may have formed.

Lubricate wheels, casters and hinges as needed. The pump and vacuum motors do not require any maintenance.

The body can be cleaned with a general all-purpose detergent and protected with a silicone type product like Armor All[®]. The quick-disconnects should be lubricated with silicone, also.

Prior to each job, inspect the holding tank filter and the recovery tank float filter for hair and dirt. The drain valve should also be inspected regularly and kept free of any debris or build-up.

SET-UP:

Fill the holding tank with clear water and the detergent of your choice. Mix well. Although this machine is designed to supply instant hot water, the addition of warm or hot water to the holding tank would be a plus factor.

- 1. Plug in cord #1, identified by the 4" long red band on the end of the cord. (This cord runs the pump and vacuums).
- 2. Turn on the pump and spray through the cleaning tool for a few seconds to fill the lines with solution.
- 3. Plug in cord #2. IF THE GREEN LIGHT ILLUMINATES, THE HEAT EXCHANGER WILL TURN ON AUTOMATICALLY (SEE NOTE BELOW). Wait 2 minutes for the heat exchanger to reach operating temperature. You may now begin cleaning. It will take about 10 seconds for the initial heat to reach the wand.

NOTE: 240 Volt machines do not have a green light.

NOTE: If the green circuit indicator light does not illuminate when cord #2 is plugged in, then both cords are on the same circuit. Try other outlets until the light comes on. See bypass switch section (below) if you are unable to get a green light.

BYPASS SWITCH:

NOTE: 240 Volt machines do not have a Bypass Switch.

The bypass switch completely bypasses the circuit locator. Use this feature when you cannot get the green light to come on and you believe that the two cords are on separate circuits.

CAUTION: If the bypass switch is on and the two cords are plugged into the same circuit, the breaker will blow.

ELECTRIC CIRCUIT LOCATOR:

NOTE: 240 Volt machines do not have an Electronic Circuit Locator.

This unique, patented "smart system", operated by a solid state circuit, will inform the operator when the two cords are plugged into separate lines by illuminating the green indicator light. This helps prevent tripping circuit breakers.

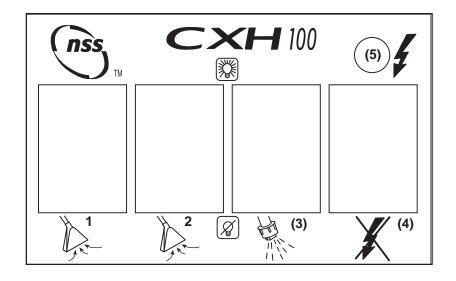
BALL FLOAT VAC SHUTOFF:

When the recovery tank is full, the float system will shut off the incoming air flow and prevent water from entering the vacuum motors. The float may not work properly if the float filter is clogged or if there is heavy foam in the tank.

CAUTION: To avoid vac motor damage, always make sure the float filter is clean and the ball travels freely before turning on the machine. Use a defoamer whenever foam is present.

SAFETY PRECAUTIONS:

All extension cords must have a rating of at least 12/3 (#12 cord). Extension cords should be no longer than 50 feet. Replace the plug immediately if the ground prong becomes damaged or is broken off. Not only is the ground necessary for safety, but the circuit locator system will not operate correctly without it.



VACUUM (1), VACUUM (2), AND PUMP (3) SWITCHES:

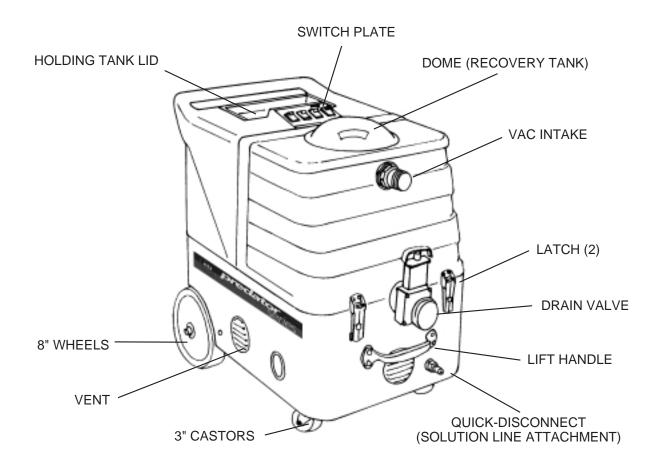
These switches are all powered by cord #1 (4" red band). Switches are on when illuminated.

BYPASS SWITCH (4): Not part of 240V machine

Turning on this switch (switch illuminates when on) bypasses the circuit locator. See previous page for explanation of the bypass system.

GREEN INDICATOR LIGHT (5): Not part of 240V machine

When this light is illuminated, it confirms that the machine is on two separate circuits. See previous page for additional information on the circuit locator.



COMMON STAINS AND CLEANING TREATMENTS

TREATMENT METHODS

First: Remove excess material by blotting to absorb liquids, or by scraping with a dull edge

(butter knife) is a solid.

Second: Clean the remaining stain as directed by the chart below. Always follow the direction

on the container. Apply the cleaning material directly to the stain (avoid over wetting the carpet or upholstery), then remove the loosened stain material with a white ab-

sorbent cloth or tissue.

Third: When the carpet is dry, gently brush the carpet pile to restore its appearance.

Note: Treat unknown stains with a volatile solvent first and follow with other agents as re-

quired. If you are uncertain of the effect of the cleaning agent on the carpet fiber or

dye, test on an inconspicuous area first.

STAIN TYPE TREATMENT MATERIAL

Asphalt Volatile solvent/detergent

Beer Liquid detergent, White vinegar

Berry stain Liquid detergent, Ammonia 3-6%, Water

Bleach Liquid detergent, Water

Blood (dried) Warm detergent, Ammonia 3-6%, Water

Blood (wet) Liquid detergent, Water

Butter Volatile solvent
Catsup or Mustard Liquid detergent
Chewing gum Volatile solvent

Chocolate Liquid detergent, Ammonia water

Coffee Detergent, White vinegar, Volatile solvent

Cola drink Liquid detergent
Creme de Menthe (green) Liquid detergent
Egg (raw) Liquid detergent

Food dye Liquid detergent, Water

Furniture dye or polish Paint/Oil/Grease remover, Detergent

Gravy Liquid detergent

Lipstick Paint/Oil/Grease remover

Mascara Paint remover, Volatile solvent, Detergent, Water

Milk Liquid detergent

Orange drink Liquid detergent, Water

Shoe polish Heated iron into clean towel, Volatile solvent

Tea Liquid detergent
Tomato Juice Liquid detergent

Urine Liquid detergent, Water

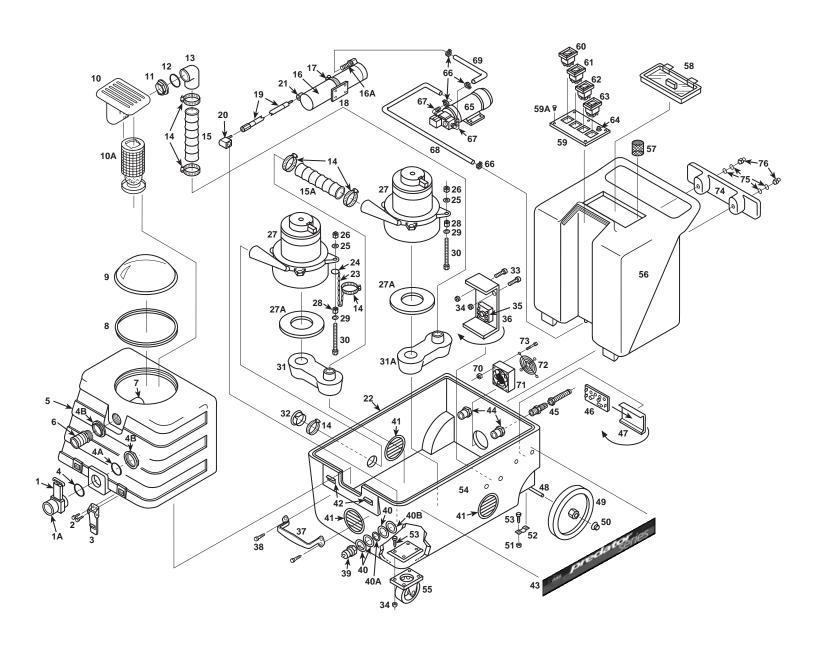
Vomit Warm detergent, Water, White vinegar

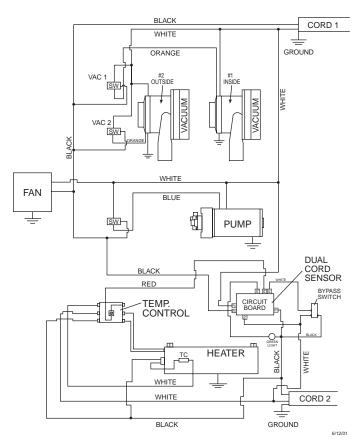
Wine Liquid detergent, Ammonia 3-6%, Water, Vinegar

PREDATOR CXH100 PARTS LIST

ITEM#	PART#	DESCRIPTION	ITEM#	PART#	DESCRIPTION
#1	4091011	Metal "T" Handle	#43	4090061	Label, CXH100, NSS
#1A	4091231	Drain Gate	#44	4091331	PVC Reducer
#2	4090581	Screw, 10-32 X 5/8, S/S	#45	4091151	Cord Retainer w/Strain Relief
#3	4091251	Latch	#46	4091301	Dual Cord Sensor Circuit Board (N/A on 240V)
#4	4091161	O-Ring, Thin	#47	4091321	Snap Track (N/A on 240V)
#4A	4091171	O-Ring, Thick	#48	4091271	Axle, 1/2 X 18-13/16"
#4B	4090701	Nut, Cast Aluminum	#49	4091361	Wheel, 8 inch, non-marking
#5	4091661	Vacuum Tank, Black, specify model	#50	4091021	Axle Cap
#6	4091241	Hose Barb, 1-1/2", plastic	#51	9120900	1/4 Hex Nut, Ny-Lok, ZP
#7	4091291	PVC Elbow, 1-1/2"	#52	4091141	Axle Bracket
#8	4091391	Gasket, for Vacuum Dome	#53	4090611	1/4-20 X 3/4" Hex Bolt, ZP
#9	4091581	Vacuum Dome	#54	4091511	Base, Black (specify model)
#3 #10	4091571	Vac Shut-off, manifold Assy.	#55	4091351	Castor, 3" swivel
#10A	4091501	Ball & Cage	#56	4091641	Holding Tank, Black (specify model)
#10A #11	4090701	Nut, Cast Aluminum	#50 #57	4091041	Filter, Pump Inlet, 40 mesh, S/S
#11 #12		O-Ring, Thick	#57 #58	4091191	Lid, with Hinges
#12 #13	4091171	-		4091001	
	4091291	PVC Elbow, 1-1/2"	#59 #50^		Switch Plate, (empty) CXH100
#14 #45	4091121	Hose Clamp, size 28	#59A	4090511	#4 X 3/8" Screw, Panhead, S/S
#15	4091551	Hose, Rubber, 2" X 20"	#60	4091041	Switch, SPST, Covered, w/light
#15A	4091561	Hose, Rubber, 2" X 16"	#61	4091041	Switch, SPST, Covered, w/light
#16	4091591	Heat Exchanger, Complete, CXH100, 120V	#62	4091041	Switch, SPST, Covered, w/light
#40A	4091741	Heat Exchanger, Complete, CXH100, 240V	#63	4091051	Switch, SPDT, Covered, w/light (N/A on 240V)
#16A	4091201	Hose Barb, 1/3 pt X 3/8 hose	#64	4091071	Light, Green (N/A on 240V)
#17	4091061	Hose Clamp, size 36	#65	4091381	Pump, 100 PSI, 120V
#18	4091221	Heat Exchanger Mount		4092121	Pump, 100 PSI, 240V
#19	4091421	Hose, 1/4" X 26"	#66	4091131	Hose Clamp, 3/8 - 7/8
#20	4091081	Elbow, Brass, Street, 1/4 pt	#67	4091101	Hose Barb & Elbow, plastic
#21	4091091	Elbow, Brass, Street, 1/8 pt	#68	4091531	Hose, Rubber, 3/8" X 13"
#22	4091611	Gasket	#69	4091541	Hose, Rubber, 3/8" X 48"
#23	4091631	Stop Chain, 13"	#70	4090531	6-32 Hex Nut w/Ny-Lok
#24	4091181	Split Ring	#71	4091441	Fan, Cooling, 100CFM, 120V
#25	9120930	3/16 Flat Washer, ZP		4092131	Fan, Cooling, 100CFM, 240V
#26	9120900	1/4-20 Hex Nut, w/Ny-Lok, ZP	#72	4091451	Fan Guard
#27	4091211	Vacuum Motor, 2-stage, 120V	#73	4090541	6-32 X 2" Screw, Panhead, S/S
	4092101	Vacuum Motor, 2-stage, 240V	#74	4091521	Cord Wrap, Black
#27A	4091431	Gasket, Vac Motor	#75	1391161	Washer, Plastic, 5/8OD X 3/8ID X 1/16
#28	9120920	1/4 Hex Nut, Finish	#76	4090671	3/8 Acorn Nut, Nickel Plate
#29	9120880	1/4 Split Lock Washer			
#30	9091080	1/4-20 X 3-1/2 Hex Bolt	MISCELLANEOUS ASSEMBLIES/PARTS		
#31	4091651	Manifold, Vacuum, #3 or #4	409	1621	Drain Gate Assembly, complete with
#31A	4091651	Manifold, Vacuum, #3 or #4	400	1021	O-Rings & Nut
#32	4091411	Exhaust Flange	4001	461*	Thermistor Control Kit w/Potentiometer
#33	9121270	1/4-20 X 1" Bolt, Hex Head, ZP	4091	401	& Probe (240V, #4091721)
#34	9120900	1/4 Hex Nut, w/Ny-Lok, ZP	4001	471*	Thermistor Control Kit w/Potentiometer,
#35	N/A	Thermistor Control w/potentiometer (see misc.)	4091	471	Probe & Cutout (240V, #4091731)
#36	4091281	Heat Sink Plate	4001	101*	
#37	4091401	Handle, Chrome	4091	481*	Rebuild Kit for 100 PSI pump
#38	4090601	1/4-20 X 3/8" Screw, Flathead, ZP		(NOTE: I	tama in hita mat and a security.
#39	4091031	Quick Disconnect, male, 1/4 p.t.		(NOTE: I	tems in kits not sold separately.)
#40	4090691	Washer, Vulcanized Fiber			NOT CHOMAI
#40A	4091111	Bushing, Vulcanized Fiber			NOT SHOWN
#40B	9122470	Washer, Brass, 1"OD X 9/16IDX 1/16"	4090	0251	Power Cord, 120V
#41	4091311	Louver, 3" (includes 3 screws)	4090	0261	Power Cord, 240V
#42	4091261	Latch Strike			
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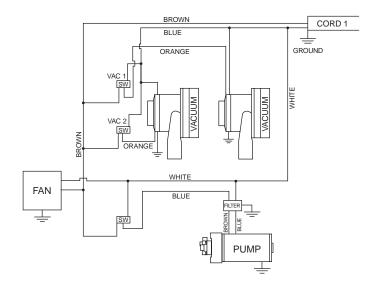
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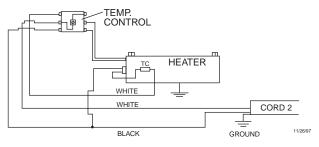




PREDATOR CXH100 WIRING DIAGRAM 120V

PREDATOR CXH100 WIRING DIAGRAM 240V





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