PREDATOR CXH150

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, ect.
- **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 CHX150 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 anti-freeze 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 CXH150 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: 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:

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 circuit breakers.

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

ELECTRIC 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.

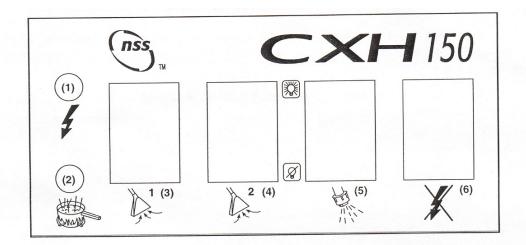
BALL FLOAT VACUUM SHUTOFF:

When the recovery tank is full, the ball float system will shut off the incoming air flow and prevent water from entering the vac motor(s). The float will not work in heavy foam. <u>Always</u> use a defoamer to prevent overflow. Once the float is activated, the vac switches must be turned off and the recovery tank emptied.

CAUTION: To avoid vac motor damage, always make sure the filter is clean and the float travels freely before turning on the machine. Use a defoamer whenever foam is present. Water damage to the vac motors is not covered by the warranty.

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.



CIRCUIT LOCATOR (1): When this light is on, it indicates that cord #2 is on a

separate line from cord #1. Cord #2 supplies voltage to the heater allowing it to heat to the proper temperature

range.

HEAT MODE LIGHT (2): This light will only illuminate when the heater is heating

and will turn off when it reaches operating temperature.

VACUUM SWITCH (3 & 4): Each switch turns on one vac motor. Turn both switches

on for maximum lift. The vac switches illuminate when

turned on.

PUMP SWITCH (5): This switch will illuminate when the pump is on.

BYPASS SWITCH (6): The bypass switch will illuminate when it is activated and

will completely bypass the circuit locator. Use this feature only when the circuit locator light will not operate and you

know each cord is on a separate circuit breaker.

CAUTION: WHEN THE BYPASS SWITCH IS ON, THE CIRCUIT

BREAKER CAN BLOW IF BOTH CORDS ARE ON THE

SAME CIRCUIT.

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

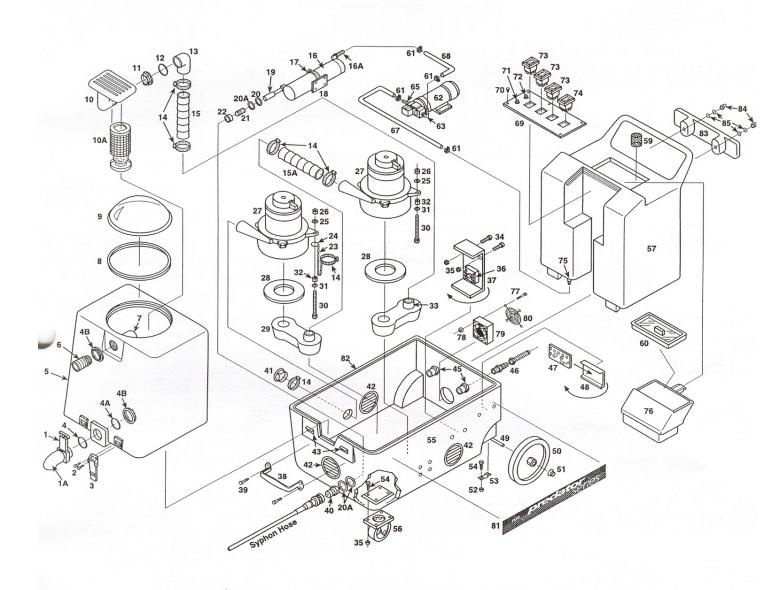
Vomit Warm detergent, Water, White vinegar

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

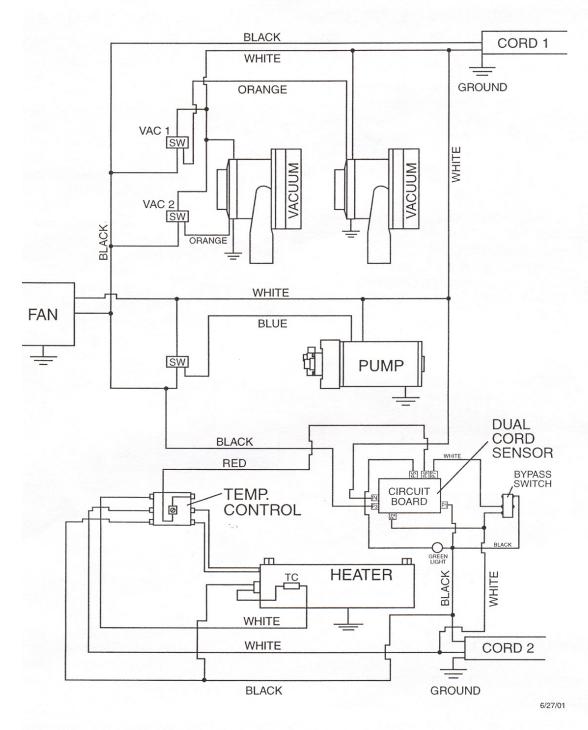
PREDATOR CXH150 PARTS LIST

ITEM#	PART#	DESCRIPTION		PART#	DESCRIPTION
#1	4091231	Drain Gate	#45	4091331	PVC Reducer
#1A	4093041	Spout, for Drain Gate	#46	4091151	Cord Retainer s/Strain Relief
#2	4090581	Screw, 10-32 X 5/8, S/S	#47	4091301	Dual Cord Sensor Circuit Board
#3	4091251	Latch	#48	4091321	Snap Track
#4	4091161	O-Ring, Thin	#49	4093211	Axle, 1/2" x 17-1/2"
#4A	4091171	O-Ring, Thick	#50	4091361	Wheel, 8"
#4B	4090701	Nut, Cast Aluminum	#51	4091021	Axle Cap
#5	4093191	Vacuum Tank, Black, specify model	#52	9120900	1/4 Hex Nut, w/Ny-Lok
#6	4091241	Hose Barb, 1-1/2", plastic	#53	4091141	Axle Bracket
#7	4091291	PVC Elbow, 1-1/2"	#54	4090611	1/4-20 x 3/4 Hex Bolt
#8	4091391	Gasket, for Vacuum Dome	#55	4094041	Base, Black, Specify Model
#9	4091581	Vacuum Dome	#56	4093051	Castor, 4" Swivel
#10	4091571	Vac Shut-off, Manifold Assy.	#57	4093181	Holding Tank, Black, Specify Model
#10A	4091501	Float, Ball & Cage	#59	4091191	Filter, Pump Inlet, 40 Mesh, S/S
#11	4090701	Nut, Cast Aluminum	#60	4093031	Lid, with label, no hinges
#12	4091171	O-Ring, Thick	#61	4091131	Hose Clamp
#13	4091291	PVC Elbow, 1-1/2"	#62	4093071	Pump, no fittings, 150 PSI
#14	4091121	Hose Clamp, size 28	#63	4091101	Hose Barb & Elbow, Plastic
#15	4093131	Hose, Rubber, 2" X 24"	#65	4093021	Hose Barb, Straight
#15A	4093141	Hose, Rubber, 2" X 13"	#67	4093121	Hose, Rubber, Pump Inlet, 3/8 x 18"
#16	4094051	Heat Exchanger, Complete, CXH150	#68	4091541	Hose, Rubber, Pump Outlet, 3/8 x 4'
#16A	4091201	Hose Barb, 1/8 p.t. x 3/8 Hose	#69	4090081	Switch Plate, empty, CXH150
#17	4091061	Hose Clamp, size 36	#70	4090511	#4 x 3/8 Screw, Panhead Phillips
#18	4091221	Heat Exchanger Mount	#71	4094031	Red Light, 120V
#19	4094061	Elbow and Brass Pipe Assy.	#72	4091071	Green Light, 120V
#20	9122470		#73	4091041	Switch, SPST, Covered, w/light
#20A	4090691	Washer, Brass, 1"OD x 9/16"ID x 1/16	#74	4091051	Switch, DPDT, Covered, w/light
#207	4090091	Washer, Vulcanized Rubber	#75	4093011	Hose Barb, 1/4 p.t. x 3/8 Hose
#22	4093091	Nipple, 1/4 p.t., S/S	#76	4093151	Funnel, Black
#23		Bushing, Vulcanized Fiber	#77	4090541	6-32 x 2" Screw, Panhead, S/S
#24	4093171 4091181	Stop Chain, 12"	#78	4090531	6-32 Hex Nut, w/Ny-Lok
#25		Split Ring	#79	4091441	Cooling Fan, 100 CFM
#26	9120930	3/16 Flat Washer, ZP	#80	4091451	Fan Guard
#27	9120900	1/4 Hex Nut, w/Ny-Lok	#81	4090071	Label, NSS
	4091211	Vac Motor, 2-stage	#82	4091611	Gasket
#28	4091431	Gasket, Vac Motor	#83	4091521	Cord Wrap, Black
#29	4091651	Vacuum Manifold (#3 or #4)	#84	4090671	3/8 Acorn Nut
#30	4090631	1/4-20 x 5" Hex Bolt	#85	1391161	Washer, Plastic, 5/80D x 3/8ID x 1/16
#31	9120930	3/16 Flat Washer, ZP	поо	1001101	Washer, 1 lastic, 5/000 x 5/010 x 1/10
#32	9120920	1/4 Hex Nut, Finish			
#33	4091651	Vacuum Manifold (#3 or #4)		MISCELL	ANEOUS ASSEMBLIES/PARTS
#34	9121270	1/4-20 x 1" Hex Bolt, ZP	4091	461*	Thermistor Control Kit w/Potentiometer
#35	9120900	1/4 Hex Nut w/Ny-Lok, ZP			& Probe
#36	n/a	Thermistor Control w/pot	4091	471*	Thermistor Control Kit w/Potentiometer,
#37	4091281	Heat Sink Plate			Probe & Cutout
#38	4091401	Chrome Handle	4093	161	Drain Gate Assembly, complete with
#39	4090601	1/4-20 x 3/4, Flathead Phillips	7000		O-Ring & Nut
#40	4091031	Quick Disconnect, Male, 1/4 p.t.			5 Fining & Mat
#41	4091411	Exhaust Flange		(NI	OTE: Items in kits not sold separately.)
#42	4091311	Louver, 3" (includes 3 screws)		(14)	OTE. Rema in Kita not sold separately.)
#43	4091261	Latch Strike			

PREDATOR CXH150



PREDATOR CXH150 WIRING DIAGRAM 120V





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