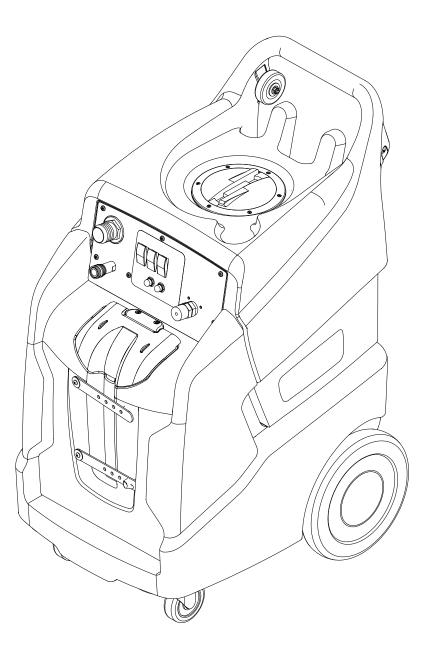




200 PSI



Operating instructions (ENG)

MODELS:

NMCU2220N 10070730

NMCU2220H 10070740

NMCU2320N 10070750

Read these instructions before using the machine.



Model:	
Date of Purchase:	
Serial Number:	
Dealer:	
Address:	
Phone Number:	
Sales Representative:	

OVERVIEW

The Ninja Warrior is an electric powered carpet extractor intended for commercial use. This appliance applies a cleaning solution to the carpet and then vacuums the soiled water back into the recovery tank.

Warranty Registration

Thank you for purchasing a C400 product. Warranty registration is quick and easy. Your registration will allow us to serve you better over the lifetime of the product.

To register your product go to : www.century400.com/support/warranty/register.php
For customer assistance:

1-800-776-2436



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How to Use This Manual
SafetyIMPORTANT SAFETY INSTRUCTIONS.5HAZARD INTENSITY LEVEL.6Safety Labels.7Grounding Instructions.8
Operations Technical Specifications .9 Controls .10 Machine Operation .11 Chemicals .11 Pre-Run Inspection .12 Equipment Set-up .12 Heater Operation .12 Cleaning .13
MaintenancePeriodic Maintenance14Daily/Regular Maintenance14Vacuum Motor Replacement15Solution Pump Replacement16Pressure Regulator17Troubleshooting18
PARTS Control Panel with Heat 22 Control Panel with Heat 22 Electrical with 2 Stage Vacuum 24 Electrical with Heat / 3 Stage Vacuum 26 Frame 28 Heater 30 Labels 32 Pump 34 Pump with Heat 36 Recovery 38 Solution 40 Vacuum, 2-Stage / 3-Stage 42 Wiring - 2 Stage Vacuum 44 Wiring with Heat 48 Suggested Spare Parts 50 Serial Numbers 51

This manual contains the following sections:

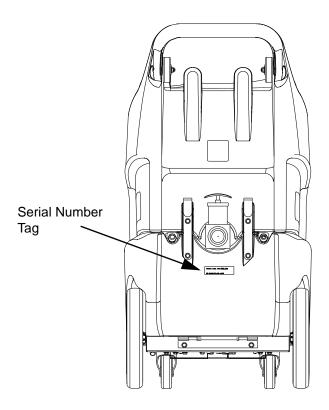
- How to Use This Manual
- Safety
- Operations
- Maintenance
- Parts List

The HOW TO USE THIS MANUAL section will tell you how to find important information for ordering correct repair parts.

Parts may be ordered from authorized dealers. When placing an order for parts, the machine model and machine serial number are important. Refer to the MACHINE DATA box which is filled out during the installation of your machine. The MACHINE DATA box is located on the inside of the front cover of this manual.

/		١
	Model:	1
	Date of Purchase:	
	Serial Number:	
	Dealer:	
	Address:	
	Phone Number:	
	Sales Representative:	
)

The model and serial number of your machine is located approximately where shown.



The SAFETY section contains important information regarding hazardous or unsafe practices of the machine. Levels of hazards are identified that could result in product damage, personal injury, or severe injury resulting in death.

The OPERATIONS section is to familiarize the operator with the operation and function of the machine.

The MAINTENANCE section contains preventive maintenance to keep the machine and its components in good working condition. They are listed in this general order:

- Maintenance
- Lubrication
- Vacuum Motor Replacement
- Solution Pump Replacement
- Troubleshooting

The PARTS LIST section contains assembled parts illustrations and corresponding parts list. The parts lists include a number of columns of information:

- REF column refers to the reference number on the parts illustration.
- PART NO. column lists the part number for the part.
- PRV NO. reference number.
- QTY column lists the quantity of the part used in that area of the machine.
- **DESCRIPTION** column is a brief description of the part.
- SERIAL NO. FROM If this column has an (*) and a Reference number, see the SERIAL NUMBERS page in the back of your manual. If column has two asterisk (**), call manufacturer for serial number. The serial number indicates the first machine the part number is applicable to. The main illustration shows the most current design of the machine. When a boxed illustration is shown, it displays the older design.
- NOTES column for information not noted by the other columns.

NOTE: If a service or option kit is installed on your machine, be sure to keep the KIT INSTRUCTIONS which came with the kit. It contains replacement parts numbers needed for ordering future parts.

NOTE: The manual part number is located on the lower left corner of the front cover.

IMPORTANT SAFETY INSTRUCTIONS

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

This machine is for commercial use.

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

Connect to a properly grounded outlet. See Grounding Instructions.

Do not leave the machine unattended. Unplug machine from outlet when not in use and before maintenance or service.

Use only indoors. Do not use outdoors or expose to rain.

Do not allow machine to be used as a toy. Close attention is necessary when used by or near children.

Use only as described in this manual. Use only manufacturer's recommended components and attachments.

Do not use damaged electrical cord or plug. Follow all instructions in this manual concerning grounding the machine. If the machine is not working properly, has been dropped, damaged, left outdoors, or dropped into water, return it to an authorized service center.

Do not pull or carry machine by electrical cord, use as a handle, close a door on cord, or pull cord around sharp edges or corners.

Do not run machine over cord. Keep cord away from heated surfaces.

Do not unplug machine by pulling on cord. To unplug, grasp the electrical plug, not the electrical cord.

Do not handle the electrical plug or machine with wet hands.

Do not operate the machine with any openings blocked. Keep openings free of debris that may reduce airflow.

This machine is intended for cleaning carpet only.

Do not vacuum anything that is burning or smoking, such as cigarettes, matches, or hot ashes.

This machine is not suitable for picking up health endangering dust.

Turn off all controls before unplugging.

Machine can cause a fire when operating near flammable vapors or materials. Do not operate this machine near flammable fluids, dust or vapors.

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

Maintenance and repairs must be done by qualified personnel.

If foam or liquid comes out of machine, switch off immediately.

SAVE THESE INSTRUCTIONS

Safety

The following symbols are used throughout this guide as indicated in their descriptions:

HAZARD INTENSITY LEVEL

There are three levels of hazard intensity identified by signal words -**WARNING** and **CAUTION** and **FOR SAFETY**. The level of hazard intensity is determined by the following definitions:

AWARNING:

WARNING - Hazards or unsafe practices which COULD result in severe personal injury or death.

A CAUTION:

CAUTION - Hazards or unsafe practices which could result in minor personal injury or product or property damage.

FOR SAFETY: To Identify actions which must be followed for safe operation of equipment.

Report machine damage or faulty operation immediately. Do not use the machine if it is not in proper operating condition. Following is information that signals some potentially dangerous conditions to the operator or the equipment. Read this information carefully. Know when these conditions can exist. Locate all safety devices on the machine. Please take the necessary steps to train the machine operating personnel.

FOR SAFETY:

DO NOT OPERATE MACHINE: Unless Trained and Authorized. Unless Operation Guide is Read and understood. In Flammable or Explosive areas. In areas with possible falling objects.

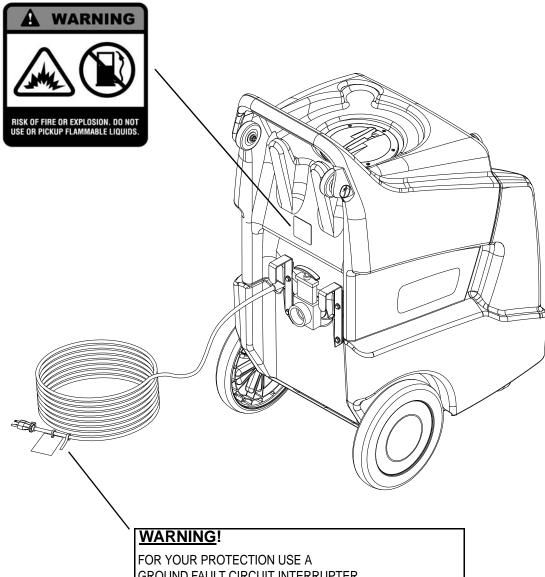
WHEN SERVICING MACHINE:

Avoid moving parts. Do not wear loose clothing; jackets, shirts, or sleeves when working on the machine. Use only manufacturer approved replacement parts.

Safety Labels

NOTE: These drawings indicate the location of safety labels on the machine. If at any time the labels become illegible, promptly replace them.

Label Warning 86244300 PRV # 500955



GROUND FAULT CIRCUIT INTERRUPTER

Label Circuit Interrupter 86200570 PRV # 170-41

Grounding Instructions

THIS PRODUCT IS FOR COMMERCIAL USE ONLY.

ELECTRICAL:

In the USA this machine operates on a standard 15 amp 115V, 60 hz, A.C. power circuit. The amp, hertz, and voltage are listed on the data label found on each machine. Using voltages above or below those indicated on the data label will cause serious damage to the motors.

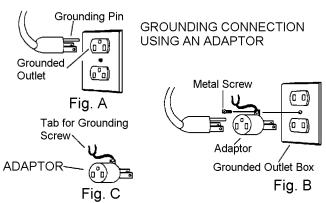
EXTENSION CORDS:

If an extension cord is used, the wire size must be at least one size larger than the power cord on the machine, and must be limited to 50 feet (15.5m) in length.

GROUNDING INSTRUCTIONS:

This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance 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.

This appliance is for use on a nominal 120-volt circuit, and has a grounded plug that looks like the plug in "Fig. A". A temporary adaptor that looks like the adaptor in "Fig. C" may be used to connect this plug to a 2-pole receptacle as shown in "Fig. B", if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet (Fig. A) can be installed by a qualified electrician. The green colored rigid ear, lug, or wire extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by a metal screw.



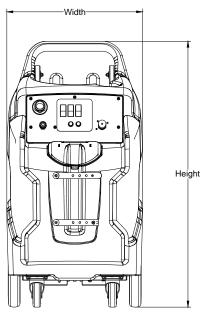
Note: Adaptors are not allowed in Canada.

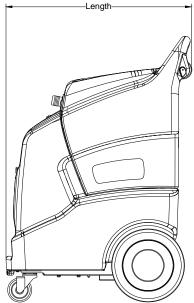
AWARNING:

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.

Technical Specifications

MODEL	ITEM	MEASURE
	Electrical	115 Volt, 60 hz, 15A
	Solution Pump	200 psi
	Solution Capacity	17 Gal
ALL	Recovery Capacity	14 Gal
	Height	43 inches
	Length	32.5 inches
	Width	22.5 inches
	Vacuum Motor	Dual 2 Stage
10070730	Weight- Empty	120 lbs
10070730	Weight-Full Solution	263 lbs
	Power cord	1 X 25 feet
	Vacuum Motor	Dual 2 Stage
	Weight- Empty	127 lbs
10070740	Weight-Full Solution	270 lbs
	Power cord	2 X 25 feet
	Heater	1850 watts
	Vacuum Motor	Dual 3 Stage
10070750	Weight- Empty	121 lbs
10070750	Weight-Full Solution	264 lbs
	Power cord	2 X 25 feet

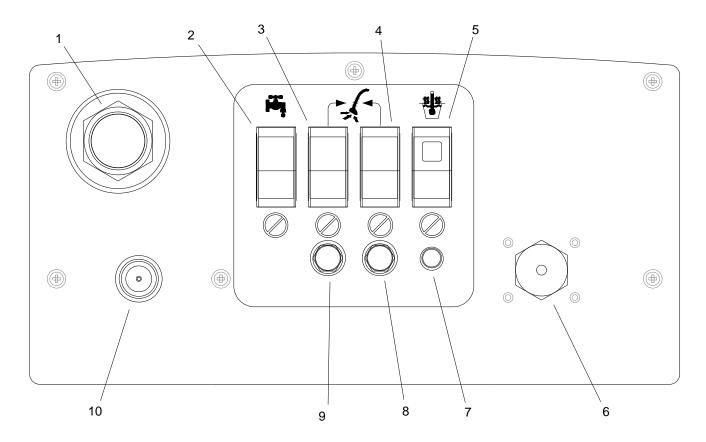




AWARNING:

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for thier safety.

Controls



- 1. Vacuum Accessory Tool Hook-up
- 2. Solution Pump Switch
- 3. Vacuum 1 Switch
- 4. Vacuum 2 Switch
- 5. Heater Switch with On Light (Units with Heat Only)
- 6. Adjustable Pressure Relief Valve
- 7. Heater Temperature Light (Units with Heat Only)
- 8. Breaker for Vacuum 2
- Breaker for Vacuum 1
- 10. Solution Accessory Tool Hook-up

Machine Operation

AWARNING:

Care must be exercised in the use of all chemicals. Chemicals are poisonous and can pose a health risk. Read and follow manufacturers instructions regarding dangers and correct usages.

A CAUTION:

The internal parts of the pump used in the machine are suitable for use with most carpet cleaning chemicals. But they are susceptible to chemical attack from some cleaning substances, such as hydrocarbon solvents and chlorinated bleaches. These non-compatible materials are not of the type used for carpet cleaning.

Chemicals

Suitable Chemicals

- Alkalis
- Detergents
- Hydroxides
- Soaps
- Vinegar

Non-Compatible

- Aldehydes
- Aromatics Hydrocarbons
- SP Butyls
- Carbon Tetrachloride
- Clorox*
- Chlorinated Bleaches
- Chlorinated Hydrocarbons
- Lvsol*
- Methyl Ethel Ketone (MEK)
- Perchorethylene (perc)
- Phenolics
- Trichlorethylene
- D-Limonene

Only use chemicals approved for use with this machine. Use of non-compatible chemicals may cause machine damage and will not be covered under the warranty. Carefully read ingredients on manufacturer's label before using any product in this machine.



Do not let pump run dry.

AWARNING:

Do not let pump run unattended.

^{*}Registered Trademark

Pre-Run Inspection

- 1. Check all fittings and connectors for proper assembly.
- 2. Check all hoses for leaks. Repair or replace any damaged hoses.
- 3. Check power cord(s) for any damage. If damaged, replace.

Equipment Set-up

- 1. Plug power cord from machine into properly grounded wall outlet.
- 2. Turn vacuum motor switch on and off to make sure there is electrical power at machine.
- Using a clean container, fill the solution tank with clean hot water. Do not use water over 130°F. Mix in a non-foaming cleaning concentrate for use in hot water extraction machines, following the manufacture's instructions printed on container.
- Connect priming hose to solution fitting on machine. Turn on pump and run for 30 seconds or until a steady flow of water is coming out of priming hose. Turn off pump and disconnect priming hose.
- 5. Connect vacuum hose to machine. Slide the swivel cuff over the outlet on the tank.
- Connect the hose to your machine and wand. Pull back the knurled collar on the quick disconnect coupler and push onto the connection on the chassis. To avoid leaks, check to be that a positive connection was made.

NOTE: When using a powder cleaner, pre-mix with hot water in a clean container before adding to the solution tank.

7. Turn pump and vacuum switch(es) to the on position.

Heater Operation

NOTE: Units with Heat Only.

AWARNING:

The solution fittings on the machine will become extremely hot during operation. Allow sufficient time to cool, or run solution through the machine with the heater turned off before disconnecting or performing any maintenance on the heater.

Plug the two power cords into separate grounded circuits. The heater draws 15 amps of current.

Turn the solution pump **ON**. Fully prime the solution system before turning heater on.

Turn the heater switch on. The red light on the heater switch will be on when the heater switch is on. The red heater temperature light will be on when the heater is active and will turn off when the heater reaches maximum temperature.

On initial start-up the heater will take a few minutes to reach operating temperature.

When turning the pump and heater **OFF**, make certain that you turn the heater off **FIRST**.

Cleaning

AWARNING:

Always use defoamer if foaming occurs. Foam will suspend large particles that may damage vacuum(s) as well as allow liquid into the vacuum motor(s) without activating the float shutoff.

- 1. Prior to cleaning, make certain that the nozzle is functioning properly.
- To check, hold the wand about one foot above the surface to be cleaned and open the wand valve. A full spray should be observed from the nozzle.
- b. If the nozzle is not showing a full spray pattern, adjust nozzle for proper pattern, clean, or replace nozzle.
- Normally, chemical is applied on the push stroke of the wand when cleaning. Vacuuming is done on the pull stroke. For heavily soiled carpets the wand may be used in a scrubbing manner, applying chemical in both the push and pull stroke.
- 3. When cleaning, keep the working opening (wand mouth) flat on the surface being cleaned. Keep the wand moving when the valve is open.
- 4. The shutoff float inside the vacuum tank will impede the vacuum flow when the vacuum tank is full. When this occurs, empty the vacuum tank by opening the dump valve and dispose of the waste in a proper manner.

Once the vacuum tank has been emptied, you may once again proceed with cleaning.

Periodic Maintenance

Twice a month, flush a white vinegar solution (one quart vinegar to two gallons of water) or anti-browning solution (mixed as directed) through the machine. This will prevent build-up of alkaline residue in the system.

Periodically inspect all hoses, electrical cables and connections on your machine. Frayed or cracked hoses should be repaired or replaced to eliminate vacuum or solution pressure loss. The electrical cable must be well insulated and cable connector screw kept tight. If the cable insulation is broken or frayed, repair or replace immediately. Don't take chances with electrical fire or shock.

Daily/Regular Maintenance

AWARNING:

Before making any repairs or adjustments to the machine, disconnect the power cords from the electrical source.

- Empty unused cleaning solution from the solution tank.
- 2. Inspect and clean filter screen in solution tank.
- Flush pumping system with 1 to 2 gallons of clean water.
- After each use, rinse tank with fresh water. Periodically inspect the recovery tank and decontaminate if necessary, using a Hospital Grade Virucide or a 10-1 bleach to water solution. Waste water should be disposed of properly.

Do not allow machine to freeze.

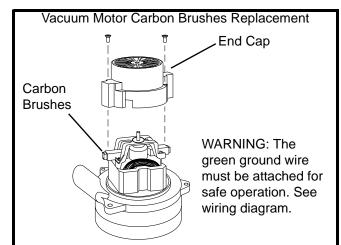
SERVICE SCHEDULE	DAILY	WEEKLY	QUARTERLY
Check machine for cord damage	*		
Check recovery dome and gasket for damage and cleanliness	*		
Check hoses for wear, blockages, or damage	*		
Check handles, switches, and knobs for damage	*		
Run one gallon of water through solution system	*		
Clean out recovery tank and check float valve to make sure it moves freely	*		
Clean out solution tank and remove and clean vacuum intake screen	*		
Clean outside of all tanks and check for damage	*		
Run vacuum motor for at least one minute to allow motor to dry	*		
Store with dome off tank to allow the tank to dry	*		
Check all gaskets for wear and leakage		*	
Check pump pressure; observe spray pattern and check with gauge if		*	
necessary			
Check and clean solution screen		*	
Check cables for fraying		*	
Check overall performance of machine		*	
Check vacuum motor carbon brushes			*

AWARNING:

Only qualified maintenance personnel are to perform the following repairs.

Vacuum Motor Replacement

- 1. Turn off all switches and unplug machine.
- 2. Remove hardware under front of machine to access component compartment.
- Remove vacuum motor cover and disconnect motor wires.
- 4. Remove the vacuum motor.
- 5. Reverse process to install vacuum motor.

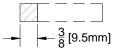


If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center.



Important:

These brushes wear quicker as the length shortens due to increased heat. Spring inside brush housing will damage motor if brushes are allowed to wear away completely.



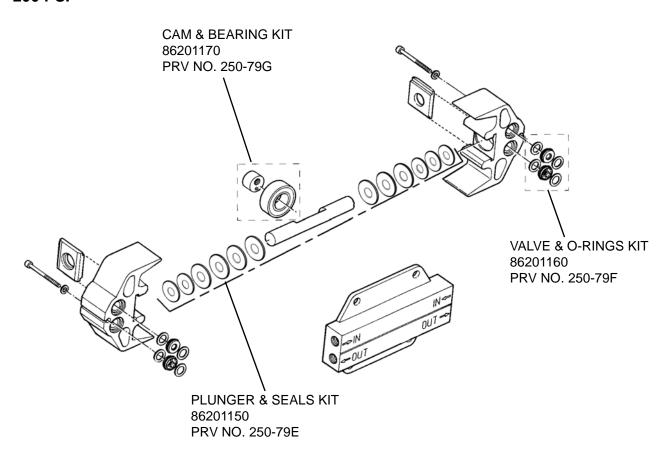
Periodically check the length of the carbon brushes. Replace both carbon brushes when either is less than 3/8" (9.5mm) long.

Solution Pump Replacement



Only qualified maintenance personnel are to perform the following repairs.

PUMP REPLACEMENT KITS 200 PSI





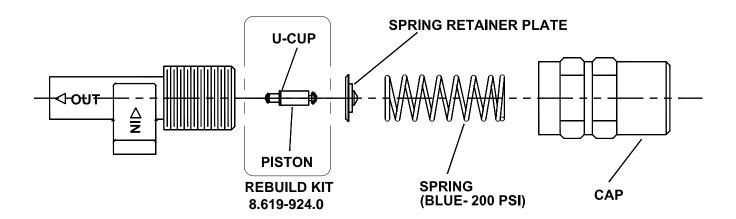
Only qualified maintenance personnel are to perform the following repairs.

Pressure Regulator

For best results with the pressure regulator, we recommend that you clean and lubricate the piston and u-cup with Superlube lubricant monthly or when pressure drop seems excessive.

- 1. Turn unit off before lubricating.
- 2. Remove cap, spring and spring retainer plate.
- 3. With fingertips remove piston and u-cup.
- 4. Wipe piston and u-cup clean of any film or scale.
- 5. Lubricate the piston and u-cup with Superlube.
- 6. Reassemble regulator.
- 7. With pump ON, re-adjust pressure regulator for normal operation.

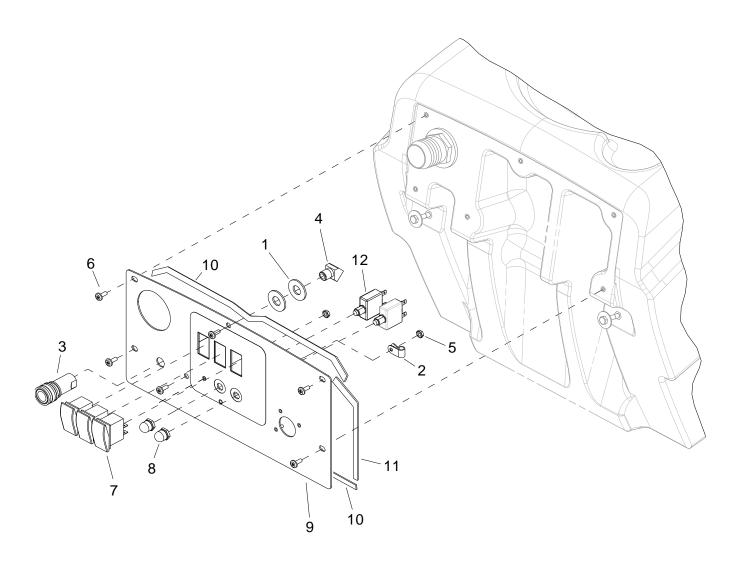
Lubricate U-Cup with Superlube Monthly.



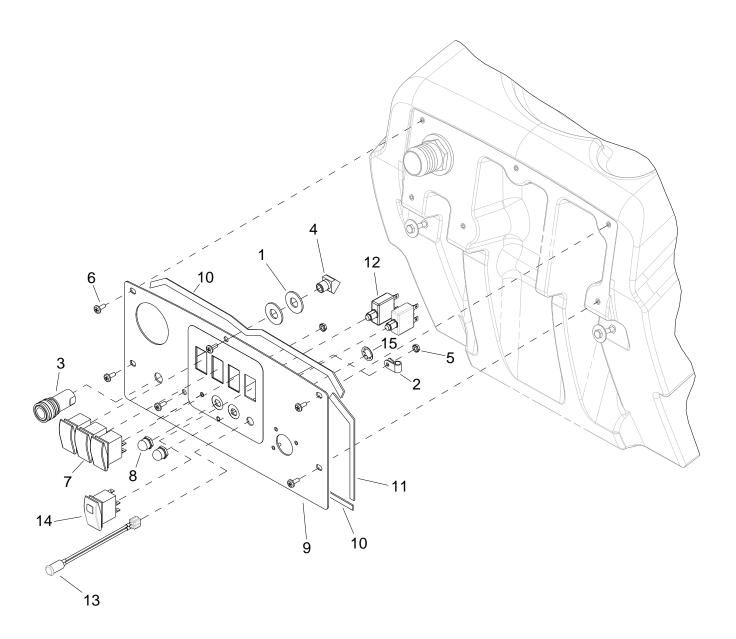
Troubleshooting

PROBLEM	CAUSE	SOLUTION	
	Unit not plugged in	Connect unit to 3 prong grounded outlet.	
Loss of Power	Dead electrical circuit	Check building circuit breaker or fuse box.	
	Faulty power cord	Replace	
	Receptacle not grounded	Contact an electrician to check building's wiring	
Electrical shock	Internal wiring problem	Have a trained service technician check	
	internal willing problem	machine's wiring	
Vacuum motor speed	Vacuum circuit breaker tripped	Reset Breaker	
vacuum motor speed varies or doesn't run	Faulty vacuum motor	Replace	
variou or accorn train	Faulty switch	Replace	
	Loose vacuum dome	Center and seal dome over tank	
	Crack in dome or poor joint	Replace or repair using acrylic plastic cement only	
	Lint or dirt clogging vacuum screen	With power off clean screen	
Loss of vacuum	Loose cuffs on vacuum hose	Tighten cuffs turning counterclockwise	
LOSS OF VACUUM	Vacuum motor seals leaking	Replace	
	Floor tool vac chamber clogged	Wash out with hose. Pick lint out with a wire	
	Vacuum hose damaged	Replace	
	Recovery tank full / Float ball stuck in the up position	Turn off power, drain recovery tank.	
	Pump inlet screen plugged	Clean inlet screen	
Pump runs no solution	Pump not primed	Prime pump with priming hose	
Tump runs no solution	Internal or external solution line damaged and leaking	Replace	
Pump runs, loss of	Internal pump components wearing out	Replace, see pump kit components	
pressure	Check valves in pump head for particles or cuts in seals	Take piston from BPR and lubricate with Super- lube. If problem still exists change BPR kit	
Pump will not run	Faulty switch	Replace	
Pump will not fun	Loose wiring	Repair or replace	
Solution hose fitting hard to connect	Corrosion on fittings.	Clean with steel wool. Soak in acetic acid (white vinegar). Lubricate lightly with silicone base lubricant.	
Carpet not getting clean	Severe soil conditions	Make several passes at right angles to each other. Use a pre-spray.	
Carpet too wet Over saturation		Adjust solution pressure to lower settings. Make several passes without spray	
Carpet browning	Leaving carpet too wet	Check for loss of vac pressure	
	Too much chemical	Check label for correct solution concentration	
	Solution hose connection	Check for positive connection	
Solution not flowing	Faulty pump	Repair or replace	
properly	Faulty floor tool valve / Nozzle	Repair or replace	
	Faulty pump switch	Repair	

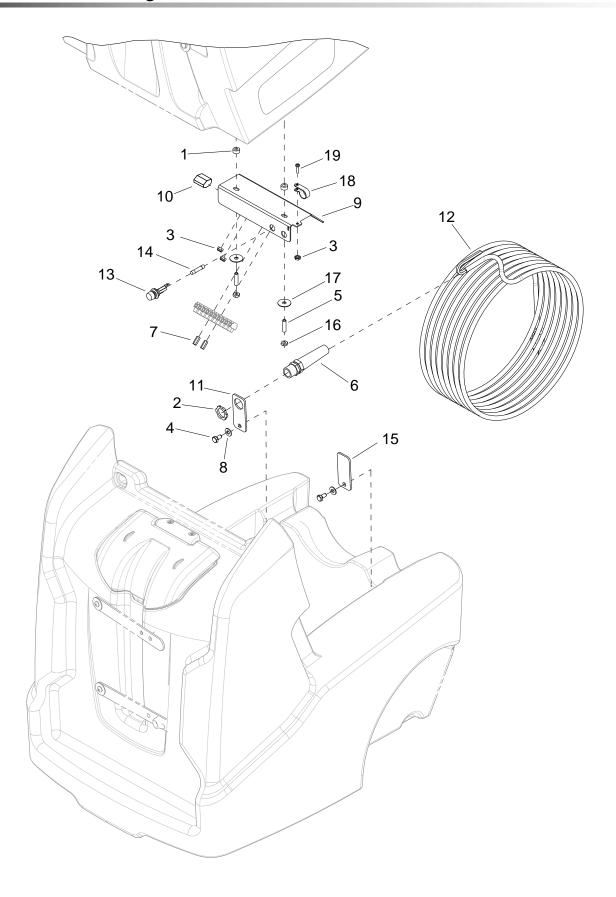
PARTS



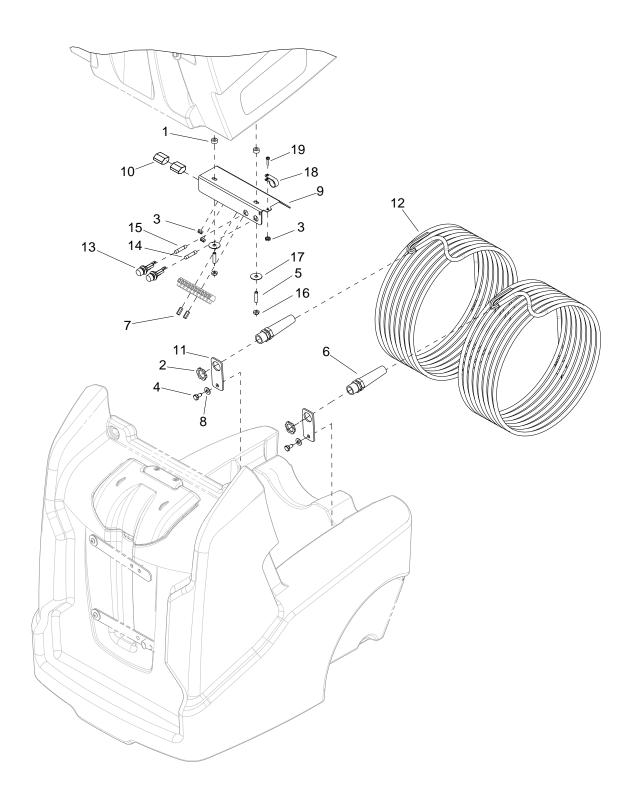
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86202230	390-09A	2	WASHER 9/16 S/S USS THICK		
2	86002370	20035	1	CLAMP, 7/16 DIA NYLON UL		
3	86002450	22015	1	COUPLER, 1/4 QD		
4	86197390	31021	1	ELBOW, 1/4NPT 45D STREET		
5	86005700	57104	2	NUT, 10-32 HEX W/STAR		
6	86276820	70740	6	SCR, 10-32 X 1/2 PTHMS BLK NP		
7	86007140	72130	3	SWITCH, SPST 2-POSITION ROCKER		
8	86008900	80845	2	BOOT, SEAL PUSH BUTTON 7/16"		
9	86323510	-	1	PANEL, CONTROL, 200		
10	86313020	-	2	GASKET, .125 T X .25 W X 15.6"		
11	86313030	-	4	GASKET, .125 T X .25 W X 7.2"		
12	86318320	-	2	BREAKER, 13A, 250VAC, 32VDC		



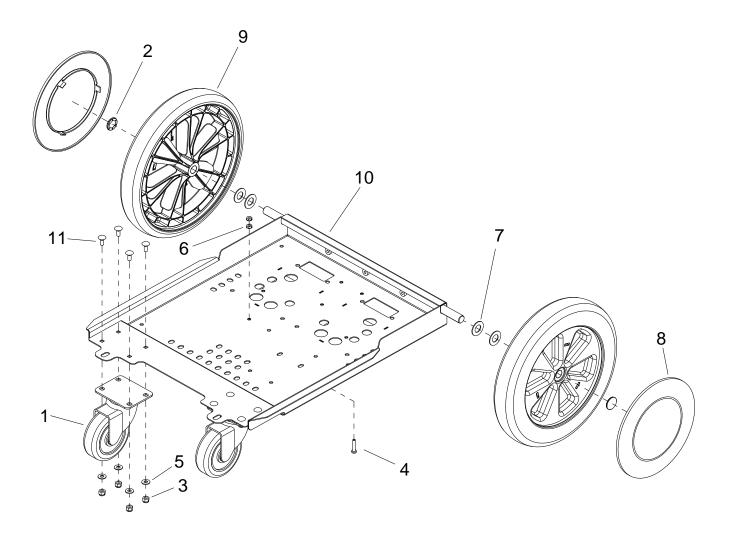
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86202230	390-09A	2	WASHER 9/16 S/S USS THICK		
2	86002370	20035	1	CLAMP, 7/16 DIA NYLON UL		
3	86002450	22015	1	COUPLER, 1/4 QD		
4	86197390	31021	1	ELBOW, 1/4NPT 45D STREET		
5	86005700	57104	2	NUT, 10-32 HEX W/STAR		
6	86276820	70740	6	SCR, 10-32 X 1/2 PTHMS BLK NP		
7	86007140	72130	3	SWITCH, SPST 2-POSITION ROCKER		
8	86008900	80845	2	BOOT, SEAL PUSH BUTTON 7/16		
9	86313840	-	1	PANEL, CONTROL, 200 HT		
10	86313020	-	2	GASKET, .125 T X .25 W X 15.6		
11	86313030	-	4	GASKET, .125 T X .25 W X 7.2		
12	86318320	-	2	BREAKER, 13A, 250VAC, 32VDC		
13	86318780		1	LIGHT ASM, HEATER, 120V		
14	86317850		1	SWITCH, LIGHTED 2-POS ROCKER		
15	86233480		1	CLIP, NEON LAMP		



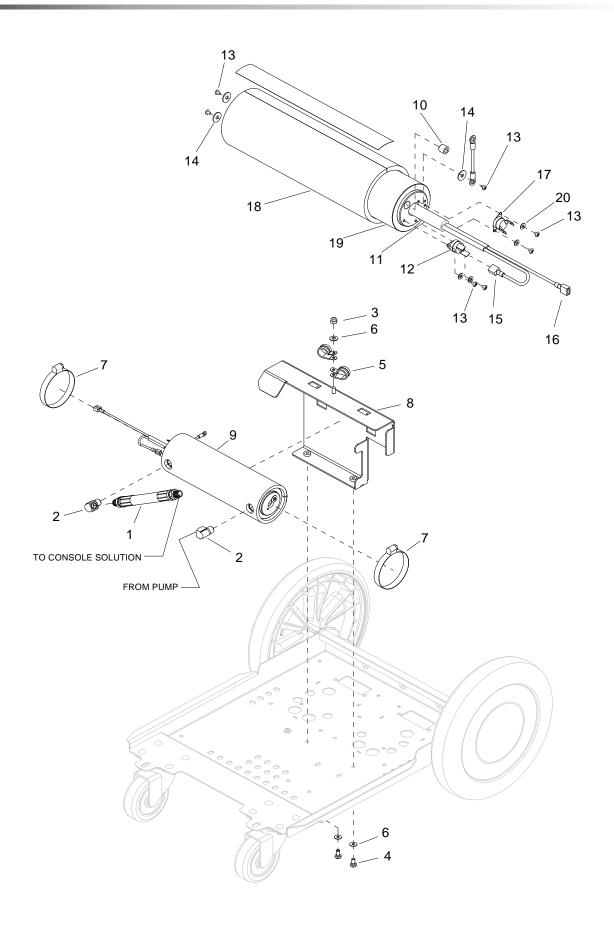
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86201510	390-26	2	SPACER NYLON 1/4ID X 1/2 OD		
2	86005670	57040	1	NUT, 1/2 NPT CONDUIT		
3	86005700	57104	3	NUT, 10-32 W/STAR WASHER PLTD		
4	86273830	70020	2	SCR, 1/4-20 X 1/2 HHCS SS		
5	86006850	70393	2	SET SCR, 1/4-20 X 1.25L		
6	86256200	73200	1	STRAIN RELEIF, 1/2 NPT FLEX		
7	86255900	73538	2	STANDOFF, 6-32 X 5/8 HEX NYL		
8	86010630	87013	4	WASHER, 1/4 X 5/8 FLAT SS		
9	86316460	-	1	BRKT, ELECTRICAL		
10	86316540	-	1	CONNECTOR, 5 POS, PUSH WIRE		
11	86316700	-	1	BRKT, CORD STRAIN RELIEF		
12	86318620	-	1	CORD ASM, 14/3 SJT X 25' BLK		
13	86319090	-	1	FUSE HOLDER, PANEL MNT		
14	86319110	-	1	FUSE, 1/4" X 1 1/4", 4A		
15	86317580	-	1	BRKT, CORD, BLANK		
16	86005810	57245	2	NUT, 1/4-20 NYLOCK		
17	86323330	-	2	WASHER, 1/4 X 1.00 BLK		
18	86198460	20008	1	CLAMP, 5/8 NYLON UL/CSA		
19	86006590	70088	1	SCREW, 10-32 X 1/2 PPHMS SS NP		



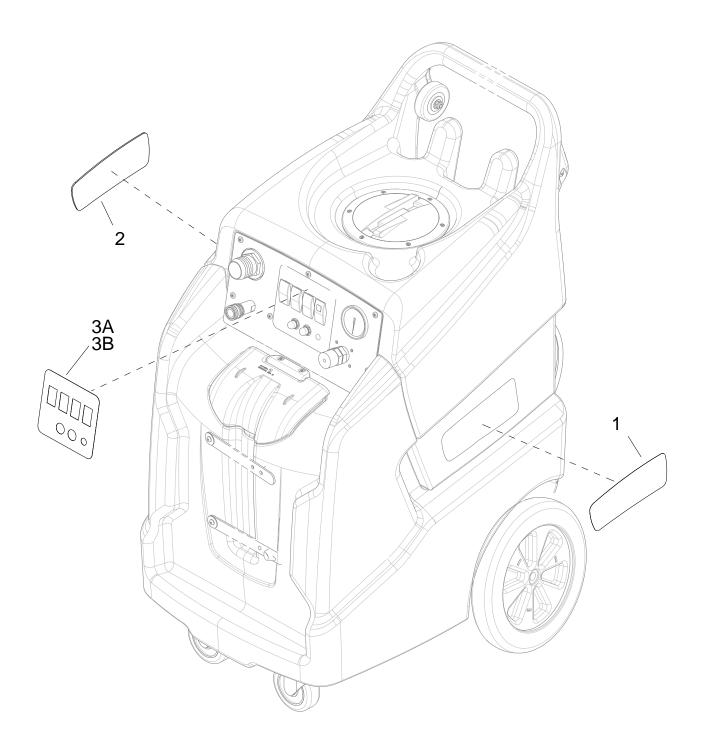
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86201510	390-26	2	SPACER NYLON 1/4ID X 1/2 OD		
2	86005670	57040	2	NUT, 1/2 NPT CONDUIT		
3	86005700	57104	3	NUT, 10-32 W/STAR WASHER PLTD		
4	86273830	70020	2	SCR, 1/4-20 X 1/2 HHCS SS		
5	86006850	70393	2	SET SCR, 1/4-20 X 1.25L		
6	86256200	73200	2	STRAIN RELEIF, 1/2 NPT FLEX		
7	86255900	73538	2	STANDOFF, 6-32 X 5/8 HEX NYL		
8	86010630	87013	4	WASHER, 1/4 X 5/8 FLAT SS		
9	86316460	-	1	BRKT, ELECTRICAL		
10	86316540	-	2	CONNECTOR, 5 POS, PUSH WIRE		1 REQ. FOR 3-STAGE VACUUM MACHINES
11	86316700	-	2	BRKT, CORD STRAIN RELIEF		
12	86318620	-	2	CORD ASM, 14/3 SJT X 25' BLK		
13	86319090	-	2	FUSE HOLDER, PANEL MNT		1 REQ. FOR 3-STAGE VACUUM MACHINES
14	86319100	-	1	FUSE, 1/4" X 1 1/4", 15A		MACHINES WITH HEAT ONLY
15	86319110	-	1	FUSE, 1/4" X 1 1/4", 4A		
16	86005810	57245	2	NUT, 1/4-20 NYLOCK		
17	86323330	-	2	WASHER, 1/4 X 1.00 BLK		
18	86198460	20008	1	CLAMP, 5/8 NYLON UL/CSA		
19	86006590	70088	1	SCREW, 10-32 X 1/2 PPHMS SS NP		



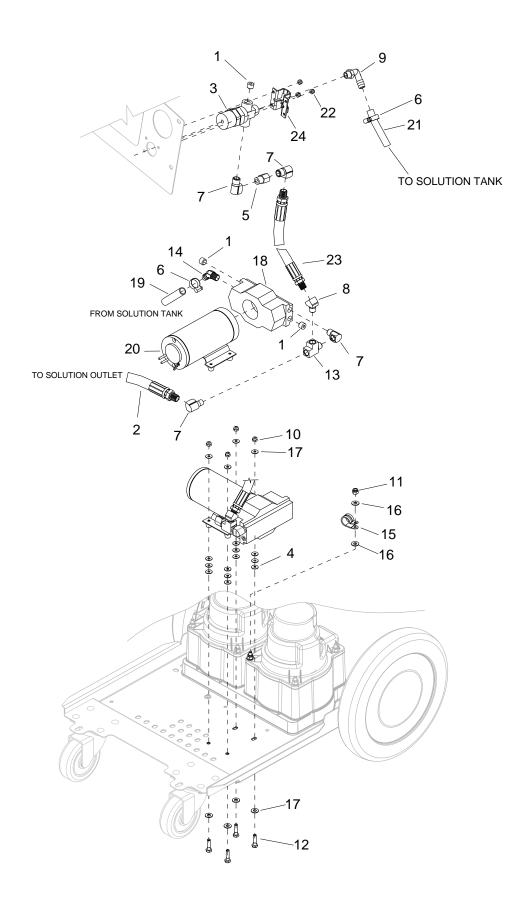
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86199430	040-03	2	CASTER, SWIVEL 4" 250# CPCTY		
2	86001660	41236	2	HUBCAP, 5/8 SHAFT		
3	86005810	57245	8	NUT, 1/4-20 HEX NYLOCK SS		
4	86276080	70595	1	SCR, 10-32 X 1" PPHMS GRN		
5	86010630	87013	8	WASHER, 1/4 X 5/8 FLAT SS		
6	86005700	57104	2	NUT, 10-32 HEX W/STAR		
7	86010730	87088	4	WASHER, 5/8 X 1-3/16 FLAT SS		
8	86300070	-	2	HUBCAP, 9.75" WHEEL		
9	86309790	-	2	WHEEL, 12" X 2.25"		
10	86312830	-	1	FRAME, 5/8" AXLE, DUAL VAC		
11	86277500	70853	8	SCR,1/4-20 X 5/8 CARR SS		



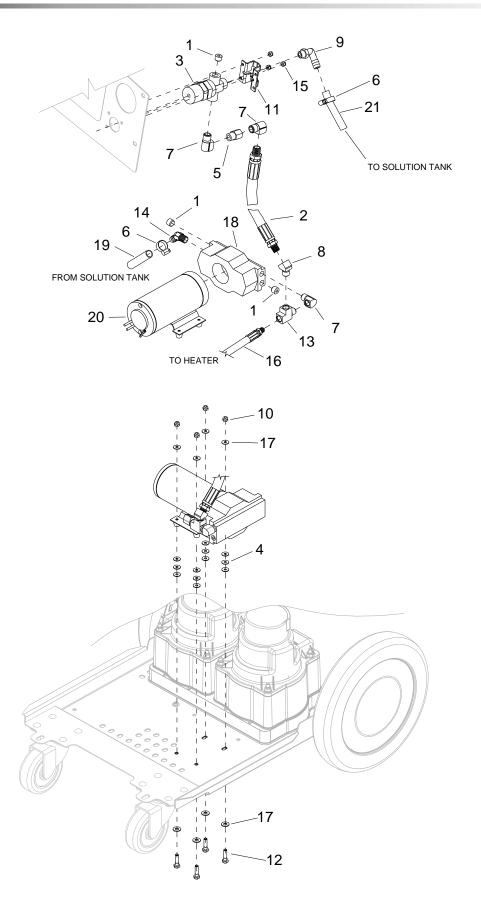
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86200260	151-50C	1	HOSE,PULSE 47.0 1/4MPTX1/4MPT		
2	86197360	31016	2	ELBOW, 1/4 NPT STREET		
3	86005810	57245	1	NUT, 1/4-20 HEX NYLOCK SS		
4	86273830	70020	2	SCR, 1/4-20 X 1/2 HHCS SS		
5	86233410	81270	2	CLAMP, 3/4 DIA CUSHION .406 DIA		
6	86010630	87013	3	WASHER, 1/4 X 5/8 FLAT SS		
7	86318310	-	2	CLAMP, 3.25 WORM GEAR SS		
8	86318410	-	1	BRKT, HEATER MOUNT		
9	86318750	-	1	HEATER ASM, 1850W, 120V		
10	86006180	66095	1	PLUG, 1/8 MPT HEX BRASS		
11	86199980	130-14	1	CARTRIDGE HEATER, 5/8" X 10"		
12	86201790	130-14C	1	THERMOSTAT RESET 302		
13	86200870	300-06A	7	SCR, 6 X 3/16, PHSMS, B		
14	86010650	87018	3	WASHER, #10 X 9/16 FLAT		
15	86266020	76029L	1	TERM, 14GA25 FEMALE		
16	86266130	76044L	1	TERM, 14GA. MALE COUPLER FI		
17	86317510	-	1	THERMOSTAT W/VERT SPADE		
18	86317730	-	1	INSULATION, HEATER		
19	86326680	-	1	HEATER CART. CASE WELDED		
20	86202220	390-01	4	WASHER #5 SS .135ID X .312 OD		



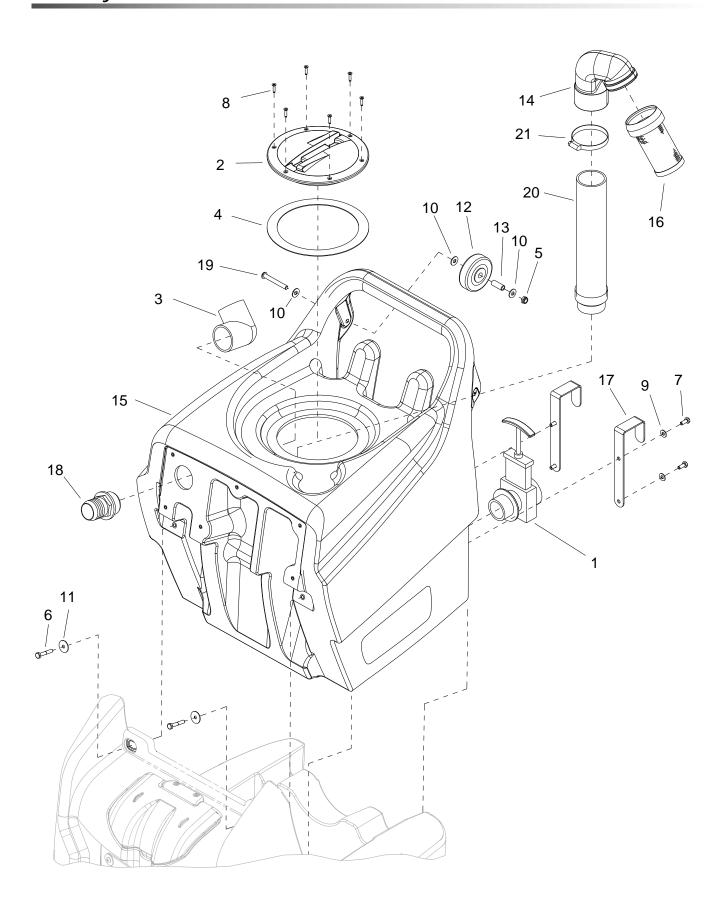
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86318260	-	1	LABEL, NINJA, WARRIOR, LH		
2	86318270	-	1	LABEL, NINJA, WARRIOR, RH		
3A	86318280	-	1	LABEL, NINJA, WARRIOR, W/ HEAT		
3B	86318290	-	1	LABEL, NINJA, WARRIOR, W/O HEAT		



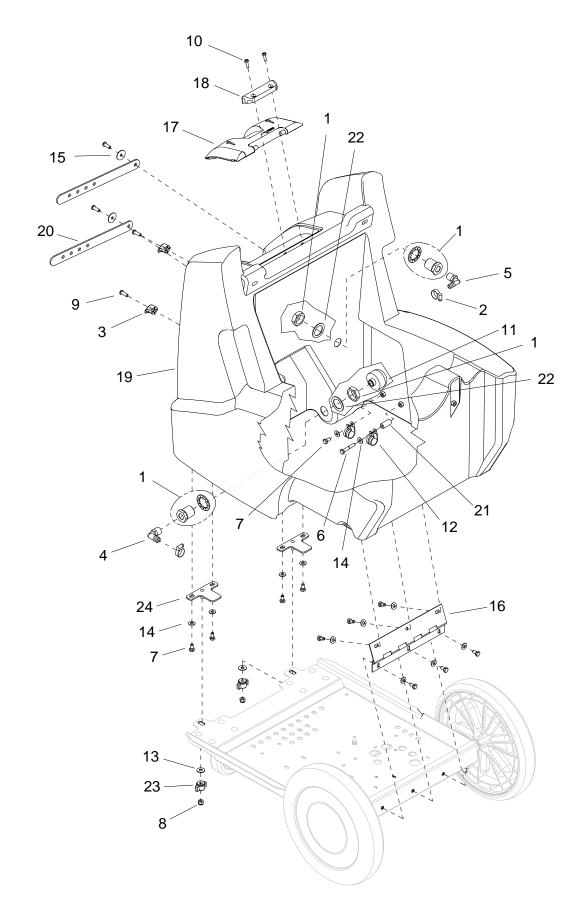
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86190510	11-800169	3	PLUG, 1/8P, BR		
2	86200260	151-50C	1	HOSE,PULSE 47.0 1/4MPTX1/4MPT		
3	86199580	250-35	1	D/B BPR 200PSI		
4	86323300	-	12	WASHER, 1/4" RUBBER		
5	86197270	04008	1	ADPTR, 1/4MPT X 1/4FPT BR		
6	86233150	20042	2	CLAMP, 3/8 WORM GEAR		
7	86197360	31016	4	ELBOW, 1/4 NPT STREET		
8	86197390	31021	1	ELBOW, 1/4NPT 45D STREET		
9	86240500	40095	1	HOSEBARB, 3/8MPT X 3/8HOSE 90		
10	86270990	57090	4	NUT, 10-32 HEX NYLOCK SS		
11	86005710	57105	1	NUT, 1/4-20 HEX W/STAR WASHER		
12	86274280	70161	4	SCR, 10-32 X 1-3/8 PPHMS		
13	86197760	78308	1	TEE, 1/4 STREET		
14	86184900	790601	1	ELBOW, 45DEG 1/4MPT x 1/2H BR		
15	86233410	81270	1	CLAMP, 3/4 DIA CUSHION .406 DIA		
16	86010630	87013	2	WASHER, 1/4 X 5/8 FLAT SS		
17	86010650	87018	8	WASHER, #10 X 9/16 FLAT		
18	86201140	-	1	PUMP, SERIES 112V W/ CAM		
19	86318390	-	1	HOSE, 1/2ID WIRE BOUND X 42"		
20	86318970	-	1	MOTOR, M35, 120V, 1.5A		
21	86321470	-	1	HOSE, 3/8ID WIRE BOUND X 26"		
22	86270850	57026	3	NUT, 8-32 HEX NYLOCK		
23	86323550	-	1	HOSE, 47" HP 1/4-MPT X 1/4-MPT		
24	86321280	-	1	BRKT D/P BPR		



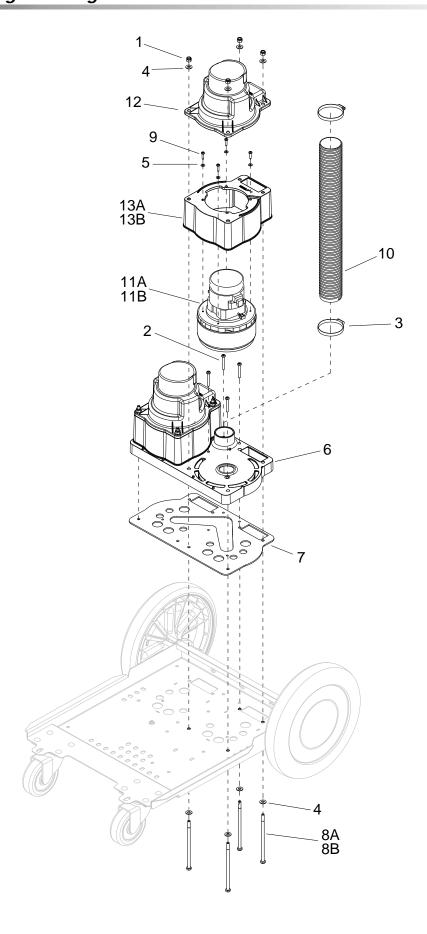
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86190510	11-800169	3	PLUG, 1/8P, BR		
2	86323550	-	1	HOSE, 47" HP 1/4-MPT X 1/4-MPT		
3	86199580	250-35	1	D/B BPR 200PSI		
4	86323300	-	12	WASHER, 1/4" RUBBER		
5	86197270	4008	1	ADPTR, 1/4MPT X 1/4FPT BR		
6	86233150	20042	2	CLAMP, 3/8 WORM GEAR		
7	86197360	31016	3	ELBOW, 1/4 NPT STREET		
8	86197390	31021	1	ELBOW, 1/4NPT 45D STREET		
9	86240500	40095	1	HOSEBARB, 3/8MPT X 3/8HOSE 90		
10	86270990	57090	4	NUT, 10-32 HEX NYLOCK SS		
11	86321280	-	1	BRKT, D/P BPR		
12	86274280	70161	4	SCR, 10-32 X 1-3/8 PPHMS		
13	86197760	78308	1	TEE, 1/4 STREET		
14	86184900	790601	1	ELBOW, 45DEG 1/4MPT x 1/2H BR		
15	86270850	57026	3	NUT, 8-32 HEX NYLOCK		
16	86317840	-	1	HOSE, PULSE 16" 1/4MPT X 1/4MPT		
17	86010650	87018	8	WASHER, #10 X 9/16 FLAT		
18	86201140	-	1	PUMP, SERIES 112V W/ CAM		
19	86318390	-	1	HOSE, 1/2ID WIRE BOUND X 42"		
20	86318970	-	1	MOTOR, M35, 120V, 1.5A		
21	86321470	-	1	HOSE, 3/8ID WIRE BOUND X 26"		



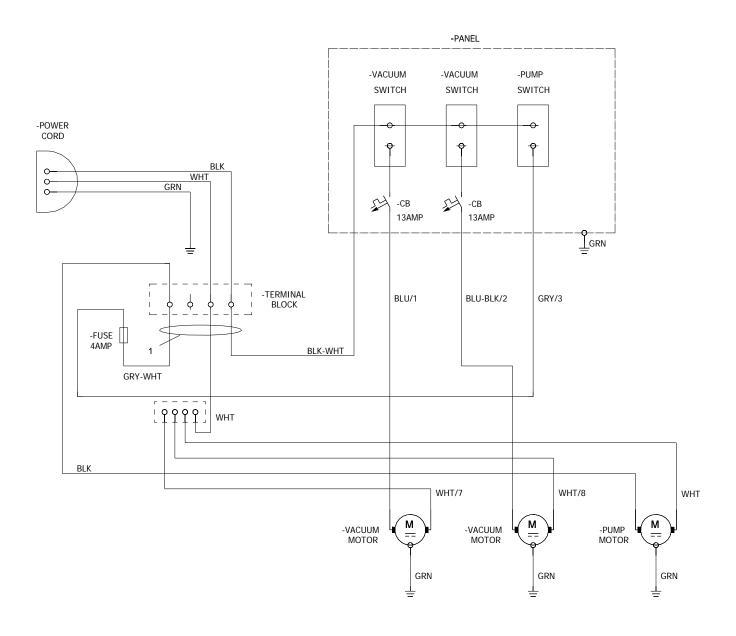
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86161460	15-808123	1	DUMP VALVE, 1 1/2		
2	86002620	260-64A	1	ACCESS, COVER CLEAR 6" W/RIM		
3	86197820	31002	1	ELBOW, 1.5 FPT X FS PVC		
4	86004000	35255	1	GASKET, TANK LID		
5	86197040	57264	2	NUT, 5/16-18 HEX ACORN PLTD		
6	86273740	70010	2	SCR, 1/4-20 X 1.50 HHCS SS		
7	86273750	70011	4	SCR, 1/4-20 X 5/8 HHCS SS		
8	86275800	70546	6	SCR, 8 X 3/4 PFHT/S BLK ZINC		
9	86010630	87013	4	WASHER, 1/4 X 5/8 FLAT SS		
10	86010670	87029	6	WASHER, 5/16 X 3/4 SS		
11	86323330	-	2	WASHER, 1/4 ID X 1.0 OD FLAT BLK		
12	86011020	89202	2	WHEEL, 3" DIA. CUSHION RUBBER		
13	86001350	140390	2	BUSHING, SPANNER .435 X 1.10		
14	86311510	-	1	ADAPTER, FLOAT 30 DEG, 2		
15	86324960	-	1	TANK, RECOVERY, TRIMMED		
16	86313040	-	1	SCRN, FLOAT, SHTOFF, 2		
17	86316710	-	2	BRKT, CORD, MOUNT		
18	86317230	-	1	HOSEBARB,1.5MPT X 1.5 W/FLNG		
19	86276130	70601	2	SCR, 5/16-18 X 2.75 BSHCS SS		
20	86325540	-	1	PIPE ASM, 2", VACUUM		
21	86233120	20019	1	CLAMP, 2.75" WORM GEAR		



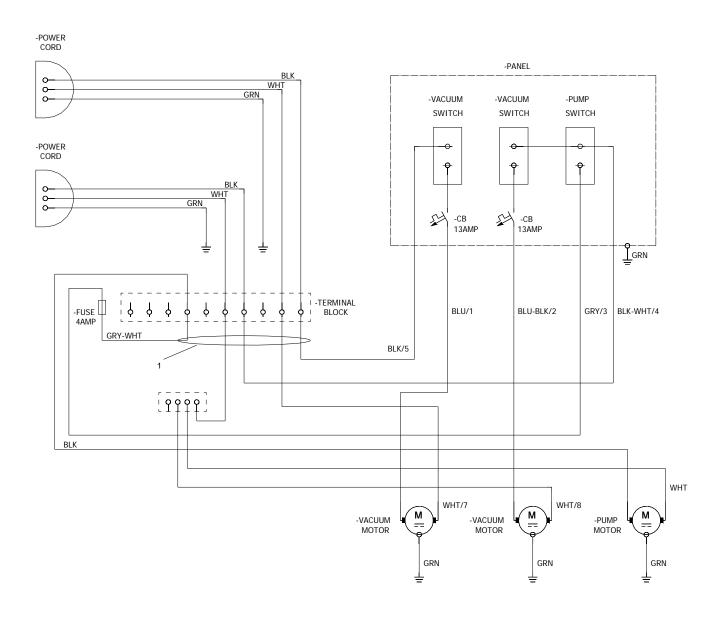
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86173640	11-800437	2	ADPT,3/8 BLKHD		COMPLETE
2	86233150	20042	2	CLAMP, 3/8 WORM GEAR		
3	86238460	36259	2	HOOK, STRAP		
4	86197940	40027	1	HOSEBARB, 3/8 MPT X 1/2 HOSE 90°		
5	86001550	40043	1	HOSEBARB, 3/8 MPT X 3/8 HOSE 90°		
6	86273740	70010	1	SCR, 1/4-20 X 1.50 HHCS SS		
7	86273830	70020	11	SCR, 1/4-20 X 1/2 HHCS SS		
8	86005810	57245	2	NUT, 1/4-20 HEX NYLOCK SS		
9	86324210	-	4	SCR, 1/4-20 X 5/8 BHCS BLK		
10	86276160	70604	2	SCR, 10-32 X 5/8 PPHMS BLK		
11	86007970	73864	1	STRAINER, 3/8 IN. NPT 60 MESH		
12	86233410	81270	2	CLAMP, 3/4 DIA CUSHION .406 DIA		
13	86010670	87029	2	WASHER, 5/16 X 3/4 SS		
14	86010630	87013	12	WASHER, 1/4 X 5/8 FLAT SS		
15	86323330	-	2	WASHER, 1/4 ID X 1.0 OD FLAT BLK		
16	86311990	-	1	HINGE, 9.5" LG X .074 THK		
17	86312000	-	1	LID, SOLUTION, COVER		
18	86312010	-	1	LID, SOLUTION, HINGE BRKT		
19	86325020	-	1	TANK, SOL, TRIM		
20	86297620	-	2	STRAP, HAND TOOL		
21	86317560	-	1	SPACER, .50 ODX .28 ID X 1.0L		
22	86318790	-	2	WASHER, 1.032ID X 1.50D X .062THK		
23	86242130	48100	2	KNOB, 1/4 HEX PRESS-LOC WING		
24	86324030	-	2	PLATE, MOUNTING, SOLUTION		



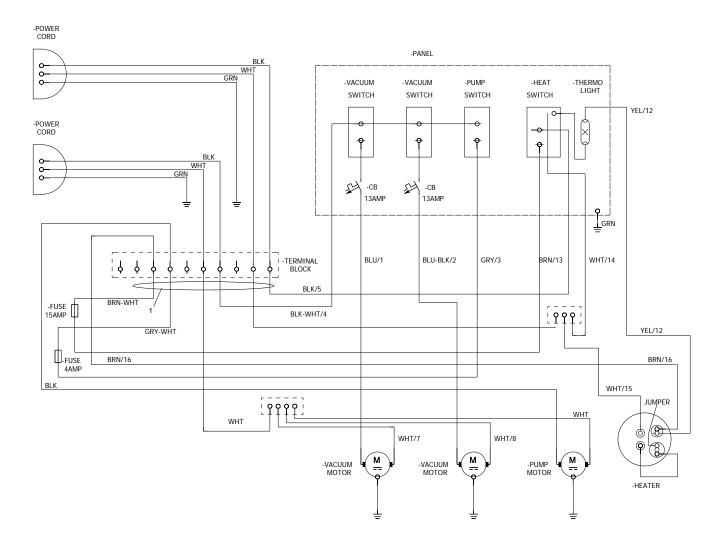
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86005810	57245	8	NUT, 1/4-20 HEX NYLOCK SS		
2	86274090	70092	5	SCR, 10-32 X 1.5 PPHMS		
3	86233430	81431	2	CLAMP, 2.50 WORM GEAR		
4	86010630	87013	16	WASHER, 1/4 X 5/8 FLAT SS		
5	86278990	87017	8	WASHER, #8 X 3/8 FLAT		
6	86311520	-	1	MANIFOLD, VACUUM, DUAL		
7	86312990	-	1	GASKET, VAC MANIFOLD, DUAL		
8A	86314710	-	8	SCR, 1/4-20 X 5.50 HHCS PLT		2-STAGE
8B	86277840	00-000167	8	SCR, 1/4-20 X 6.5 HHCS PLT		3-STAGE
9	86317630	-	8	SCR, #8 X 3/4" PPHSMS TYPE AB		
10	86318300	-	1	HOSE, VAC, 2.0 ID X 18.5"L		
11A	86318760	-	2	VAC ASM, 2-STAGE, 120V		
11B	86318770	-	2	VAC ASM, 3-STAGE, 120V		
-	86135320	140687	-	SP BRUSHES SET (120V VAC)		
12	86312080	-	2	COVER, VAC MOTOR		
13A	86312220	-	2	BASE, VAC MOTOR, 2-STAGE		
13B	86312120	-	2	BASE, VAC MOTOR, 3-STAGE		
-	86319020	-	-	VAC HOUSING, 2-STAGE		INCLUDES 12, 13A
-	86319030	-	-	VAC HOUSING, 3-STAGE		INCLUDES 12, 13B



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	98407900	1	1	HARNESS KIT, SINGLE CORD		



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	98407910	1	1	HARNESS KIT, DUAL CORD		



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	98407920	•	1	HARNESS KIT, HEATED		

PART NO.	PRV NO.	DESCRIPTION	SERIAL NO. FROM	NOTES
86199240	250-33A	BPR REPAIR KIT PUMPTEC		
86317510	-	THERMOSTAT W/ VERT SPADE		(HEATED MODELS)
86201790	130-14C	THERMOSTAT RESET 302		(HEATED MODELS)
86135320	140687	BRUSH SET, 120V VAC		
86199430	040-03	CASTER SWIVEL 4" 250# CAPACITY		
86002620	260-64A	ACCESS COVER CLEAR 6" W/RIM		
86319110	-	FUSE, 1/4" X 1-1/4", 4A		
86319100	-	FUSE, 1/4" X 1-1/4", 15A		(HEATED MODELS)
86318760	-	VAC ASSY 2-STG, 120V		(2-STG MODELS)
86318770	-	VAC ASSY 3-STG, 120V		(3-STG MODELS)
86007140	72130	SWITCH, SPST 2-POSITION ROCKER		
86317850	-	SWITCH, LIGHTED 2-POSITION ROCKER		(HEATED MODELS)
86309790	-	WHEEL, 12" X 2.25"		
86001660	41236	HUBCAP, 5/8" SHAFT		
86007970	73864	STRAINER 3/8" NPT 60 MESH		
86201040	250-73C	CAM & BEARING KIT		
86201080	250-75A	PLUNGER & SEALS KIT		
86201030	250-73B	VALVE & O RINGS KIT		
86324290	-	PRIMING HOSE		

REF. NO.	MODEL: SERIAL #
1	N/A

No	ote	25.
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