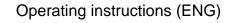
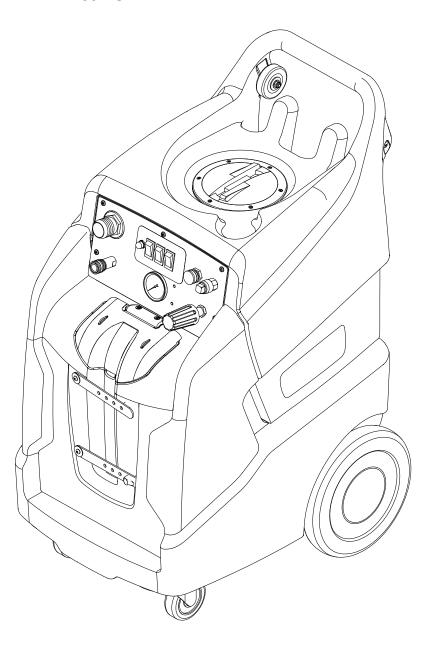


1200 PSI



MODELS: NWCU1312N 10070700



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.

| Machine Data Log / Overview | .2 |
|--|--|
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| How to Use This Manual | .4 |
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| Operations Technical Specifications Controls. Machine Operation Chemicals Solution Pump. Auto-Fill Auto Pump-Out Pre-Run Inspection Equipment Set-up Cleaning | 10 11 11 11 11 12 12 |
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PARTS

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| Frame | 24 |
| Labels | |
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This manual contains the following sections:

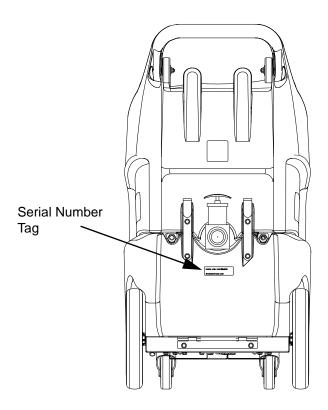
- How to Use This Manual
- Safety
- Operations
- Maintenance
- Parts List

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.

| / | |
|---|-----------------------|
| | Model: |
| | 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.

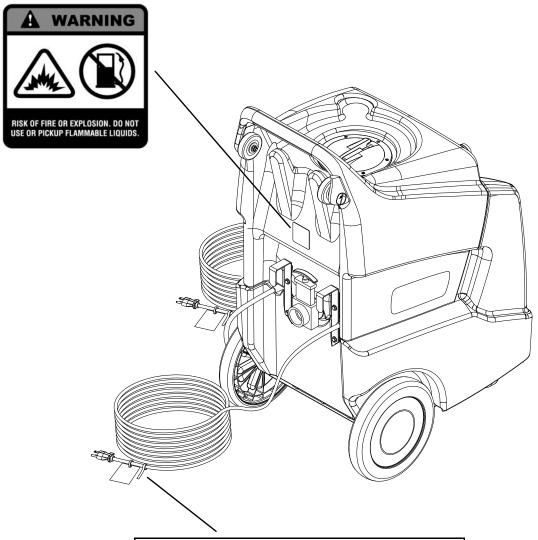
WHEN SERVICING MACHINE:

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



WARNING!

FOR YOUR PROTECTION USE A 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.

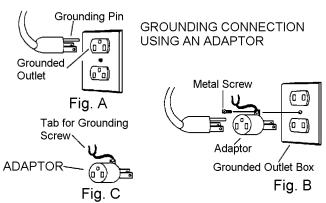
EXTENSION CORDS:

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.



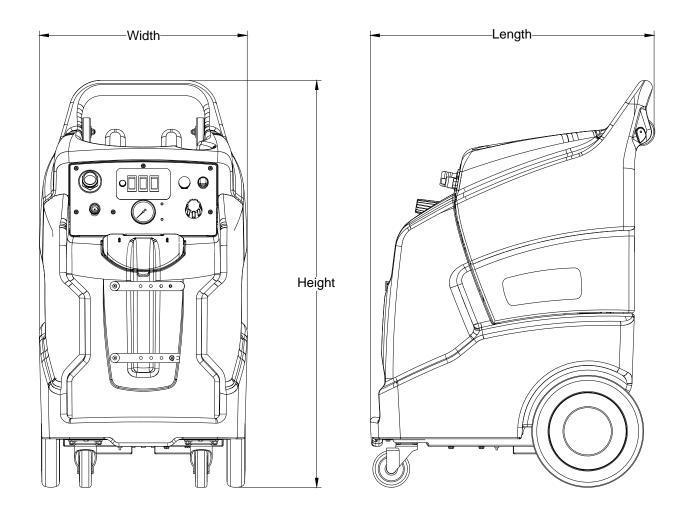
Note: Adaptors are not allowed in Canada.

AWARNING:

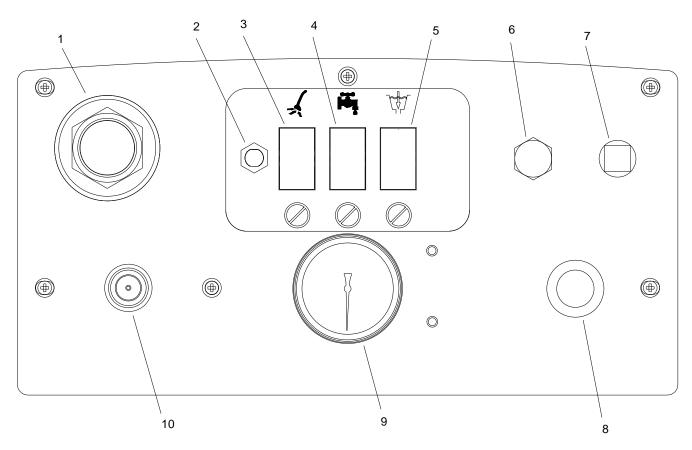
Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

Technical Specifications

| MODEL | ITEM | MEASURE |
|----------|----------------------|----------------------|
| | Electrical | 115 Volt, 60 hz, 15A |
| | Solution Pump | 1200 psi |
| | Pump-Out Pump | 5.0 GPM Diaphragm |
| | Solution Capacity | 13 Gal |
| | Recovery Capacity | 11 Gal |
| 10070700 | Height | 43 inches |
| 10070700 | Length | 30 inches |
| | Width | 22 inches |
| | Vacuum Motor | Single 3 Stage |
| | Weight- Empty | 151 lbs |
| | Weight-Full Solution | 275 lbs |
| | Power cord | 2 X 25 feet |



Controls



- 1. Vacuum Accessory Tool Hook-up
- 2. Breaker for Vacuum
- 3. Vacuum Switch
- 4. Solution Pump Switch
- 5. Pump-Out Switch

- 6. Pump-Out Fitting
- 7. Solution Auto-Fill Fitting
- 8. Adjustable Unloader Valve
- 9. Pressure Gauge
- 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.

ACAUTION:

The internal parts of the pump used in the machine are suitable for use with most floor cleaning chemicals. But they are susceptible to chemical attack from some cleaning substances, such as hydrocarbon solvents and chlorinated bleaches.

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.

AWARNING:

Do not let machine run unattended.

Solution Pump

The solution pressure is adjustable by turning the unloader valve on the control panel.

AWARNING:

Do not let pump run dry.

Auto-Fill

When a water supply is connected to the auto fill fitting the solution tank will fill to a preset level. The auto-fill float in the solution tank will maintain this water level during operation.

Auto Pump-Out

The auto pump-out system uses a run-dry diaphragm pump. The pump will run whenever the pump-out switch is turned on. The primary strainer is located in the recovery tank. A secondary strainer is attached to the pump head to protect the pump from a damaged or improperly installed primary strainer.

AWARNING:

Do not turn on auto pump-out with cap attached to the pump-out fitting. Pump-out system damage may occur from excessive pressure.

^{*}Registered Trademark

Operations

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

- Plug power cords from machine into properly grounded wall outlet. Power cords must be on separate circuits.
- Connect fresh water supply hose to auto-fill fitting on control panel. Turn on water to supply hose. The solution tank will fill to float level.
- 3. Connect pump-out hose to pump-out fitting on control panel. Place opposite end of pump-out hose in an appropriate drain area.
- 4. 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.
- 6. Turn solution pump, vacuum, and pump-out switches to the on position.

Cleaning

- 1. Prior to cleaning, make certain that the floor tool is functioning properly.
- When cleaning, keep the floor tool flat on the surface being cleaned.
- 3. The float shutoff inside the recovery tank will impede the vacuum flow when the vacuum tank is full. If this occurs, disconnect power from machine, drain recovery tank, and clean pump-out strainer.

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

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.
- Inspect and clean pump-out strainer in recovery 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.

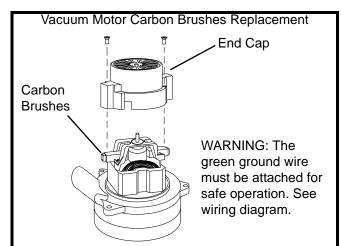
| SERVICE SCHEDULE | DAILY | WEEKLY | QUARTERLY |
|--|-------|--------|-----------|
| Check machine for cord damage | * | | |
| Check recovery dome and gasket for damage and cleanliness | * | | |
| Check hoses for wear, blockages, or damage | * | | |
| Check handles, switches, and knobs for damage | * | | |
| Run one gallon of water through solution system | * | | |
| Clean out recovery tank and check float valve to make sure it moves freely | * | | |
| Clean pump-out strainer and run clean water through pump-out system. | * | | |
| Clean out solution tank and remove and clean vacuum intake screen | * | | |
| Clean outside of all tanks and check for damage | * | | |
| Run vac 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 vac 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.
- Remove the vacuum motor.
- 5. Reverse process to install vacuum motor.

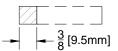


If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center.



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.

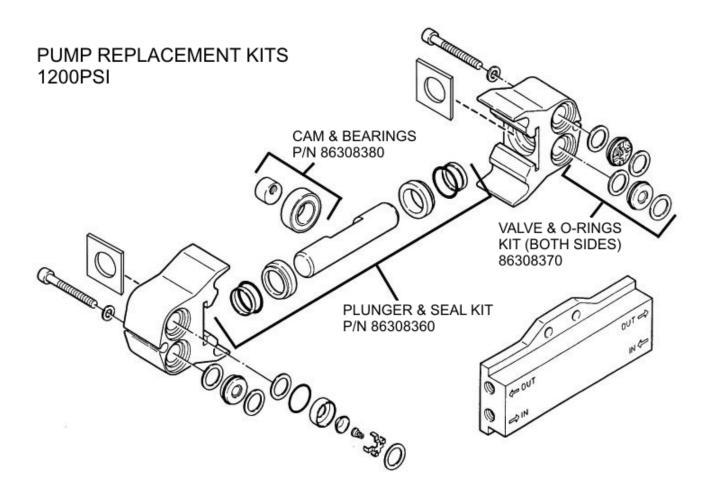


Periodically check the length of the carbon brushes. Replace both carbon brushes when either is less than 3/8" (9.5mm) long.

Solution Pump Replacement

AWARNING:

Only qualified maintenance personnel are to perform the following repairs.



Maintenance

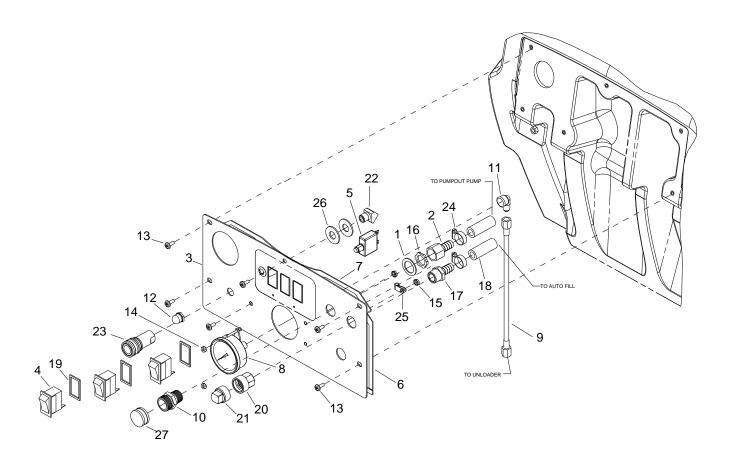
Troubleshooting

| 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 machine's wiring |
| \/ | Vacuum circuit breaker tripped | Reset Breaker |
| Vac motor speed varies or doesn't run | Faulty vacuum motor | Replace |
| varies of doesn't full | Faulty switch | Replace |
| | Loose vacuum dome | Center and seal dome over tank |
| | Crack in dome of 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 | Vac 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 |
| Solution Pump runs no | Pump not primed | Prime pump with priming hose |
| solution | Internal or external solution line damaged and leaking | Replace |
| Solution Pump runs, | Internal pump components wearing out | Replace, see pump kit components |
| loss of pressure | Check valves in pump head for particles or cuts in seals | Take piston from BPR and lubricate with Superlube. If problem still exists change BPR kit |
| Solution Pump will not | Faulty switch | Replace |
| run | Loose wiring | Repair or replace |

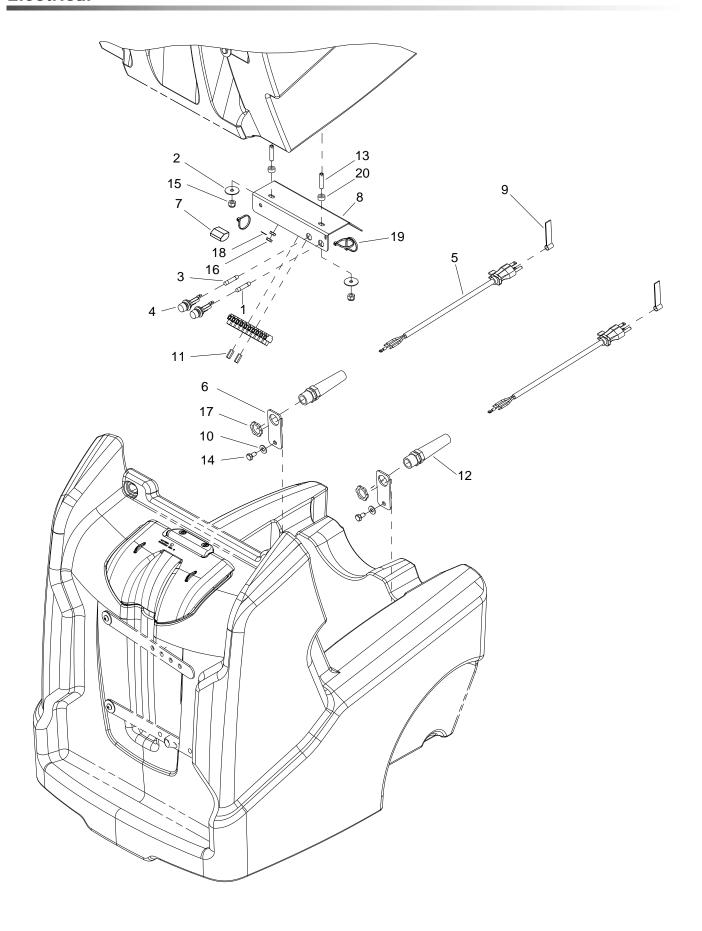
| Solution hose fitting hard to connect | Corrosion on fittings. | Clean with steel wool. Soak in acetic acid (white vinegar). Lubricate lightly with silicone base lubricant. | | |
|---|----------------------------------|---|--|--|
| Carpet not getting clean | Severe soil conditions | Make several passes 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 | | |
| Cornet browning | Leaving carpet too wet | Check for loss of vac pressure | | |
| Carpet browning | 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 | | |
| Auto-fill does not control water level | Faulty Auto-fill float | Replace float | | |
| Duman aut avatam haa | Faulty Pump-out switch | Replace Pump-out switch | | |
| Pump-out system has no flow | Faulty Pump-out pump | Replace Pump-out pump | | |
| TIO HOW | Blown fuse | Replace fuse | | |
| Pump-out system has | Clogged primary strainer | Clean primary strainer | | |
| low flow | Clogged secondary strainer | Clean secondary strainer | | |

Notes:

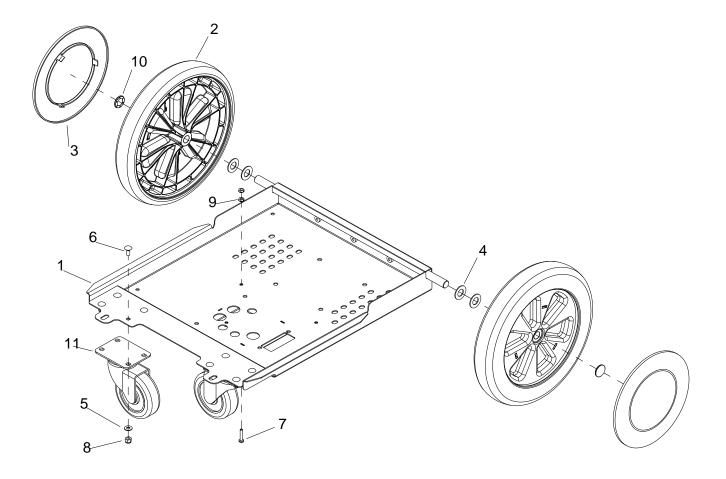
PARTS



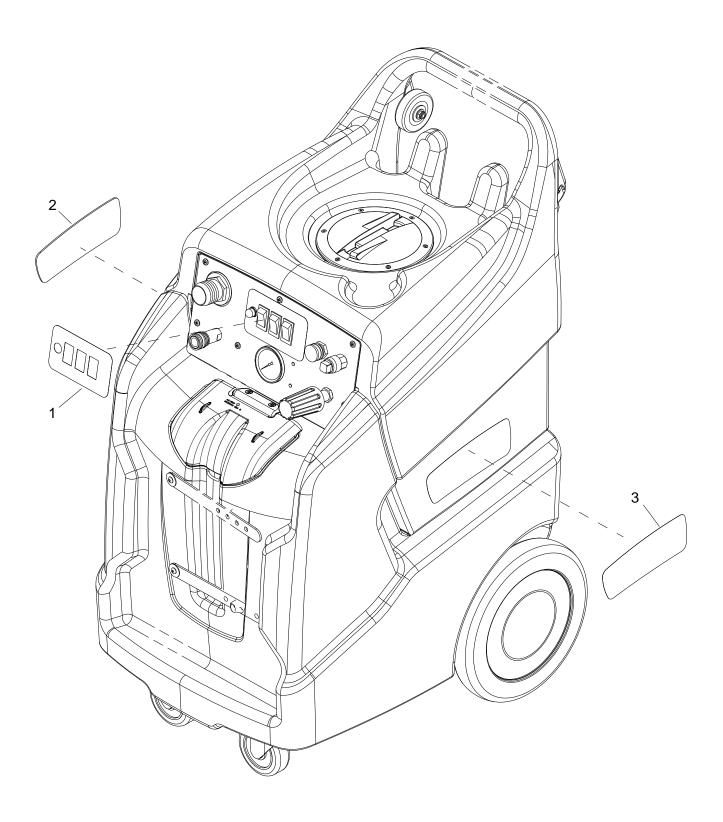
| REF | PART NO. | PRV NO. | QTY | DESCRIPTION | SERIAL NO. FROM | NOTES |
|-----|----------|-----------|-----|---------------------------------|--------------------|-------|
| 1 | 86327130 | - | 1 | WASHER,.88IDX1.28ODX.062THK NYL | | |
| 2 | 86327080 | - | 1 | HOSEBARB, 1/2 FPT X 1/2 BR | | |
| 3 | 86326690 | - | 1 | PANEL, CONTROL, 1200 | | |
| 4 | 86326660 | - | 3 | SWITCH, SPST 2-POS ROCKER 20A | | |
| 5 | 86318320 | - | 1 | BREAKER, 13A, 250VAC, 32VDC | | |
| 6 | 86313030 | - | 4 | GASKET, .125 T X .25 W X 7.2 | | |
| 7 | 86313020 | - | 2 | GASKET, .125 T X .25 W X 15.6 | | |
| 8 | 86308170 | - | 1 | GAUGE, 2000 PSI | | |
| 9 | 86184590 | - | 1 | HOSE, 3/16 X 25-1/2" | | |
| 10 | 86173530 | 790506 | 1 | ADAPTER, HOSE 1/2M X 3/4MGT | | |
| 11 | 86180350 | 12-800035 | 1 | ELL, 1/4FP X 1/4T BR | | |
| 12 | 86008900 | 80845 | 1 | BOOT, SEAL PUSH BUTTON 7/16 | | |
| 13 | 86276820 | 70740 | 6 | SCR, 10-32 X 1/2 PTHMS BLK NP | | |
| 14 | 86005720 | 57106 | 2 | NUT, 8-32 W/STAR WASHER PLTD | | |
| 15 | 86005700 | 57104 | 2 | NUT, 10-32 HEX W/STAR | | |
| 16 | 86005670 | 57040 | 1 | NUT, 1/2 NPT CONDUIT | | |
| 17 | 86197910 | 40022 | 1 | HOSEBARB, 1/2MPT X 1/2 POLY DL | | |
| 18 | 86281950 | 39541 | 2 | HOSE, 1/2ID WIRE BOUND X 32" | | |
| 19 | 86238030 | 36235 | 3 | GASKET, SWITCH CARLING | | |
| 20 | 86197490 | 34420 | 1 | FITTING, GARDEN HOSE FX1/2FPT | | |
| 21 | 86197480 | 34419 | 1 | FITTING, MALE PLUG GARDEN HOSE | | |
| 22 | 86197390 | 31021 | 1 | ELBOW, 1/4NPT 45D STREET | | |
| 23 | 86002450 | 22015 | 1 | COUPLER, 1/4 QD | | |
| 24 | 86233150 | 20042 | 2 | CLAMP, 3/8 WORM GEAR | | |
| 25 | 86002370 | 20035 | 1 | CLAMP, 7/16 NYLON | | |
| 26 | 86202230 | 390-09A | 2 | WASHER 9/16 S/S USS THICK | | |
| 27 | 86176420 | 12-800052 | 1 | CAP, HOS 3/4 BR | | |



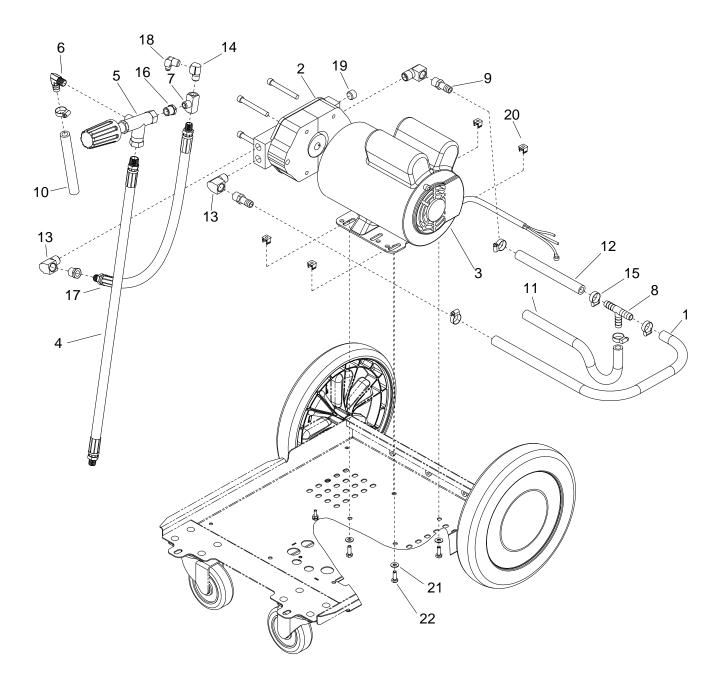
| REF | PART NO. | PRV NO. | QTY | DESCRIPTION | SERIAL NO. FROM | NOTES |
|-----|----------|---------|-----|-----------------------------------|--------------------|-------|
| 1 | 86326890 | - | 1 | FUSE, 1/4" X 1-1/4", 20A | | |
| 2 | 86323330 | - | 2 | WASHER, 1/4 ID X 1.0 OD FLAT, BLK | | |
| 3 | 86319110 | - | 1 | FUSE, 1/4" X 1 1/4", 4A | | |
| 4 | 86319090 | - | 2 | FUSE HOLDER, PANEL MNT | | |
| 5 | 86318620 | - | 2 | CORD ASM, 14/3 SJT X 25' BLK | | |
| 6 | 86316700 | - | 2 | BRKT, CORD STRAIN RELIEF | | |
| 7 | 86316540 | - | 1 | CONNECTOR, 5 POS, PUSH WIRE | | |
| 8 | 86316460 | - | 1 | BRKT, ELECTRICAL | | |
| 9 | 86200570 | - | 2 | LABEL CIRCUIT INTERUPTER | | |
| 10 | 86010630 | 87013 | 2 | WASHER, 1/4 X 5/8 FLAT SS | | |
| 11 | 86255900 | 73538 | 2 | STANDOFF, 6-32 X 5/8 HEX NYL | | |
| 12 | 86256200 | 73200 | 2 | STRAIN RELEIF, 1/2 NPT FLEX | | |
| 13 | 86006850 | 70393 | 2 | SCR, 1/4-20 X 1.25 SSSCU | | |
| 14 | 86273830 | 70020 | 2 | SCR, 1/4-20 X 1/2 HHCS SS | | |
| 15 | 86005810 | 57245 | 2 | NUT, 1/4-20 HEX NYLOCK SS | | |
| 16 | 86005700 | 57104 | 2 | NUT, 10-32 HEX W/STAR | | |
| 17 | 86005670 | 57040 | 2 | NUT, 1/2 NPT CONDUIT | | |
| 18 | 86245040 | 50279 | 1 | LABEL, GROUND SYMBOL | | |
| 19 | 86264930 | 27050 | 4 | CABLE TIE, 3.5" UL/CSA | | |
| 20 | 86201510 | 390-26 | 2 | SPACER NYLON 1/4ID X 1/2 OD | | |



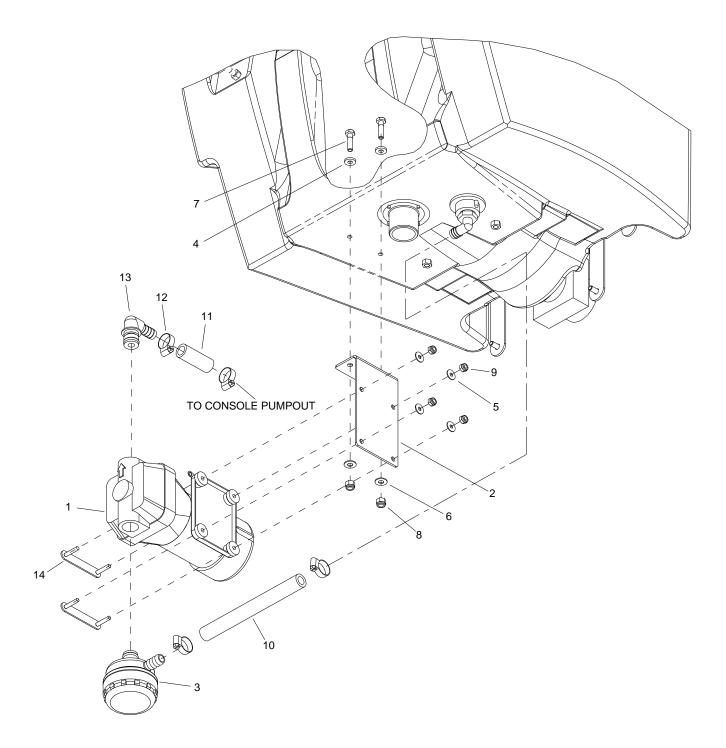
| REF | PART NO. | PRV NO. | QTY | DESCRIPTION | SERIAL NO. FROM | NOTES |
|-----|----------|---------|-----|-------------------------------|--------------------|-------|
| 1 | 86319830 | - | 1 | FRAME, 5/8" AXLE, SINGLE VAC | | |
| 2 | 86309790 | - | 2 | WHEEL, 12" X 2.25" | | |
| 3 | 86300070 | - | 2 | HUBCAP, 9.75" WHEEL | | |
| 4 | 86010730 | 87088 | 4 | WASHER, 5/8 X 1-3/16 FLAT SS | | |
| 5 | 86010630 | 87013 | 8 | WASHER, 1/4 X 5/8 FLAT SS | | |
| 6 | 86277500 | 70853 | 8 | SCR, 1/4-20 X 5/8 CARRIAGE SS | | |
| 7 | 86276080 | 70595 | 1 | SCR, 10-32 X 1" PPHMS GRN | | |
| 8 | 86005810 | 57245 | 8 | NUT, 1/4-20 HEX NYLOCK SS | | |
| 9 | 86005700 | 57104 | 2 | NUT, 10-32 HEX W/STAR | | |
| 10 | 86001660 | 41236 | 2 | HUBCAP, 5/8 SHAFT | | |
| 11 | 86199430 | 040-03 | 2 | CASTER, SWIVEL 4" 250# CPCTY | | |



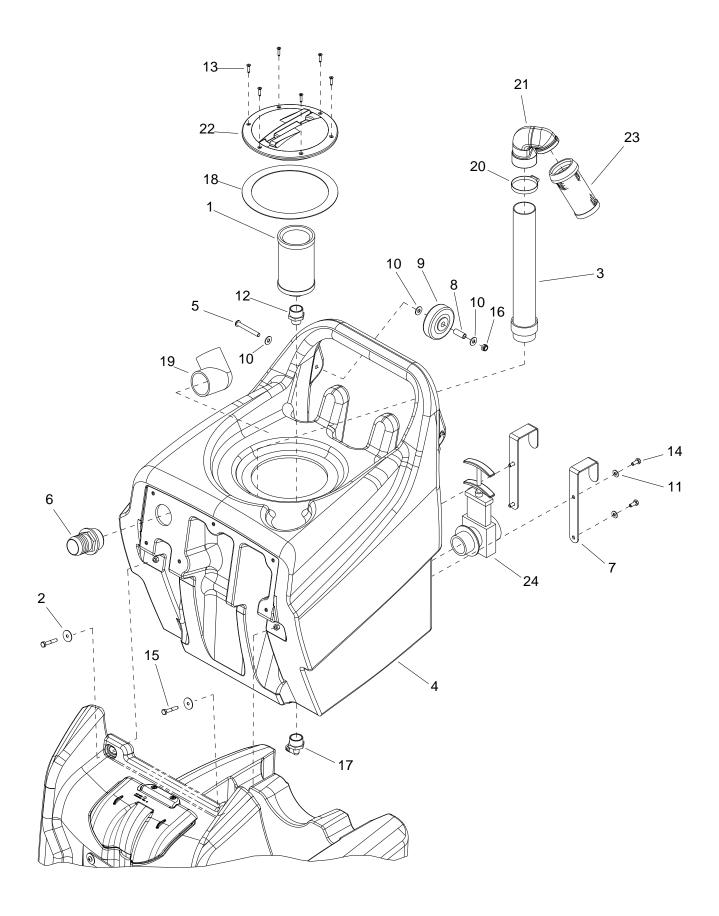
| REF | PART NO. | PRV NO. | QTY | DESCRIPTION | SERIAL NO. FROM | NOTES |
|-----|----------|---------|-----|----------------------------|--------------------|-------|
| 1 | 86324100 | - | 1 | LABEL, NINJA WARRIOR, 1200 | | |
| 2 | 86318270 | - | 1 | LABEL, NINJA, WARRIOR, RH | | |
| 3 | 86318260 | - | 1 | LABEL, NINJA, WARRIOR, LH | | |



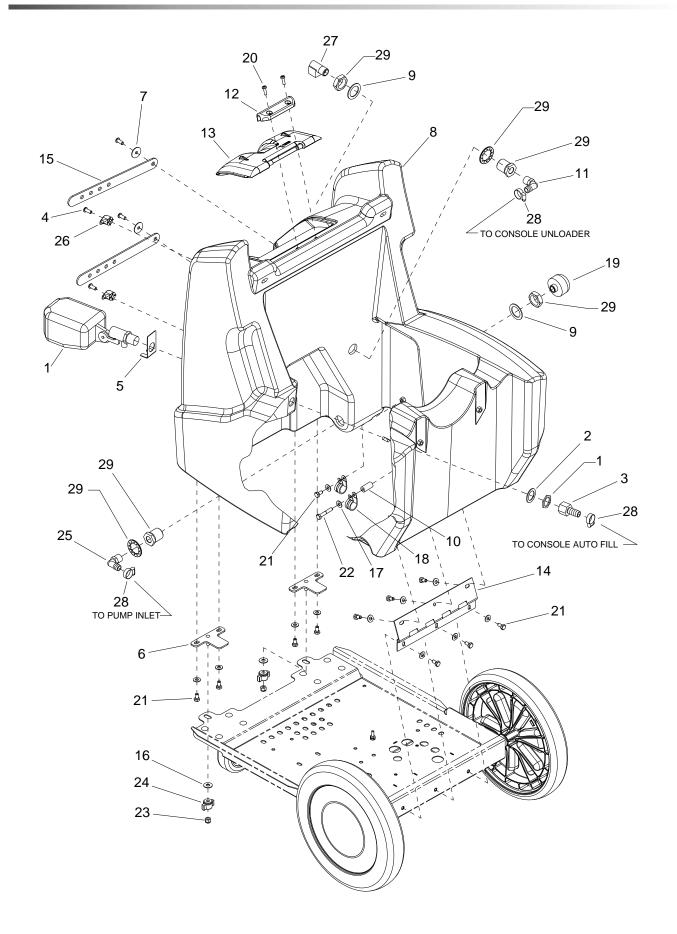
| REF | PART NO. | PRV NO. | QTY | DESCRIPTION | SERIAL NO. FROM | NOTES |
|-----|----------|-----------|-----|--------------------------------|--------------------|---------------|
| 1 | 86326100 | - | 1 | HOSE, 1/2ID WIRE BOUND X 19" | | |
| 2 | 86321710 | - | 1 | PUMP HEAD, 1200PSI | | |
| 3 | 86321700 | - | 1 | PUMP MOTOR, 1200PSI, 120V | | |
| 4 | 86308220 | - | 1 | HOSE,PULSE 27.0 3/8MPTX1/4MPT | | |
| 5 | 86308190 | - | 1 | UNLOADER, 1200 PSI, W/ KNOB | | |
| 6 | 86197600 | 40033 | 1 | HOSEBARB, 1/4MPT X 3/8 90D DL | | |
| 7 | 86197730 | 78024 | 1 | TEE, 1/4 BRANCH | | |
| 8 | 86240410 | 40078 | 1 | HOSEBARB, 1/2 TEE | | |
| 9 | 86197540 | 40013 | 2 | HOSEBARB, 3/8MPT X 1/2HOSE | | |
| 10 | 86321470 | - | 1 | HOSE, 3/8 ID WIRE BOUND X 26" | | |
| 11 | 86281950 | 39541 | 1 | HOSE, 1/2ID WIRE BOUND X 32" | | |
| 12 | 86281000 | 39241 | 1 | HOSE, 1/2ID WIRE BOUND X 9" | | |
| 13 | 86197420 | 31026 | 3 | ELBOW, 3/8NPT STREET | | |
| 14 | 86197360 | 31016 | 1 | ELBOW, 1/4 NPT STREET | | |
| 15 | 86233150 | 20042 | 6 | CLAMP, 3/8 WORM GEAR | | |
| 16 | 86197290 | 14076 | 2 | BUSHING, 3/8 MPT X 1/4 FPT HEX | | |
| 17 | 86200260 | 151-50C | 1 | HOSE,PULSE 47.0 1/4MPTX1/4MPT | | |
| 18 | 86180340 | 12-800031 | 1 | ELL, 1/4P X 1/4T BR | | |
| 19 | 86190520 | 11-800224 | 1 | PLUG, 3/8 SOCHD BR | | |
| - | 86313060 | - | 1 | PUMP ASM, 1200, 120V | | INCLUDES 1-19 |
| 20 | 86271110 | 57123 | 4 | NUT, 1/4-20 CAPTIVE (.074W) | | |
| 21 | 86010630 | 87013 | 4 | WASHER, 1/4 X 5/8 FLAT SS | | |
| 22 | 86273780 | 70015 | 4 | SCR, 1/4-20 X 3/4 HHCS SS | | |



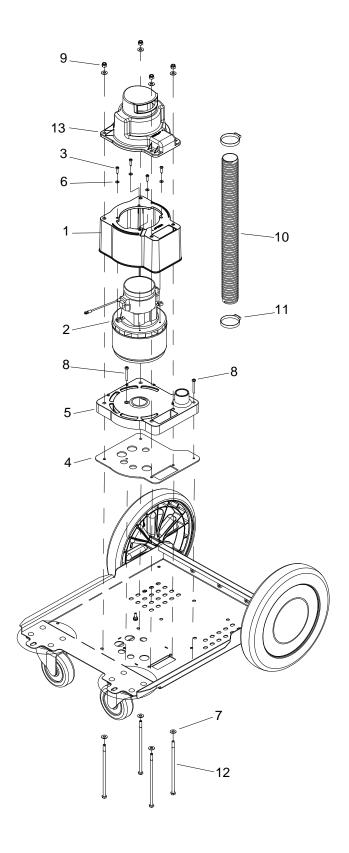
| REF | PART NO. | PRV NO. | QTY | DESCRIPTION | SERIAL NO. FROM | NOTES |
|-----|----------|---------|-----|------------------------------|--------------------|-------|
| 1 | 86327640 | - | 1 | PUMP ASM, PUMPOUT | | |
| 2 | 86329400 | - | 1 | BRKT, PUMP, MOUNTING | | |
| 3 | 86325390 | - | 1 | STRAINER, 20 MESH, FLOJET | | |
| 4 | 86279610 | - | 2 | WASHER, SEAL 1/4X5/8OD SS | | |
| 5 | 86010650 | 87018 | 4 | WASHER, #10 X 9/16 FLAT | | |
| 6 | 86010630 | 87013 | 2 | WASHER, 1/4 X 5/8 FLAT SS | | |
| 7 | 86273810 | 70018 | 2 | SCR, 1/4-20 X 1.00 HHCS SS | | |
| 8 | 86005810 | 57245 | 2 | NUT, 1/4-20 HEX NYLOCK SS | | |
| 9 | 86270990 | 57090 | 4 | NUT, 10-32 HEX NYLOCK SS | | |
| 10 | 86329430 | - | 1 | HOSE, 1/2ID WIRE BOUND X 11" | | |
| 11 | 86281950 | 39541 | 1 | HOSE, 1/2ID WIRE BOUND X 32" | | |
| 12 | 86233150 | 20042 | 4 | CLAMP, 3/8 WORM GEAR | | |
| 13 | 86325400 | - | 1 | ELL, 5/8 SLIP X 1/2 HOSEBARB | | |
| 14 | 86329410 | - | 2 | BRKT, PUMPOUT, RETAINER | | |



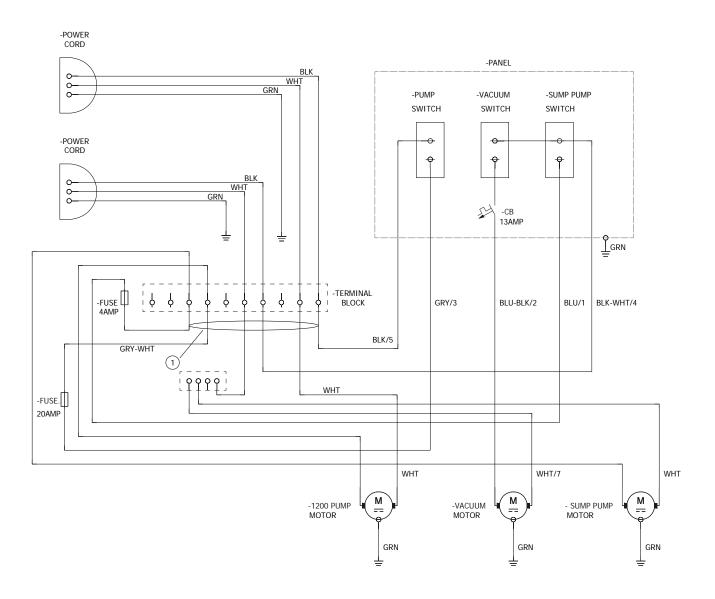
| REF | PART NO. | PRV NO. | QTY | DESCRIPTION | SERIAL NO. FROM | NOTES |
|-----|----------|-----------|-----|-----------------------------------|--------------------|-------|
| 1 | 86325590 | - | 1 | STRAINER, 30 MESH, 3/4F | | |
| 2 | 86323330 | - | 2 | WASHER, 1/4 ID X 1.0 OD FLAT, BLK | | |
| 3 | 86321720 | - | 1 | PIPE ASM, 1.5", VACUUM | | |
| 4 | 86321160 | - | 1 | TANK, REC, TRIM, AD | | |
| 5 | 86317720 | - | 2 | SCR, 5/16-18 X 2.50 BSHCS SS | | |
| 6 | 86317230 | - | 1 | HOSEBARB,1.5MPT X 1.5 W/FLNG | | |
| 7 | 86316710 | - | 2 | BRKT, CORD, MOUNT | | |
| 8 | 86001350 | 140390 | 2 | BUSHING, SPANNER .435 X 1.10 | | |
| 9 | 86011020 | 89202 | 2 | WHEEL, 3" DIA. CUSHION RUBBER | | |
| 10 | 86010670 | 87029 | 6 | WASHER, 5/16 X 3/4 SS | | |
| 11 | 86010630 | 87013 | 4 | WASHER, 1/4 X 5/8 FLAT SS | | |
| 12 | 86236860 | 82362 | 1 | FTG, NIPPLE REDUCER 3/4" X1/2 | | |
| 13 | 86275800 | 70546 | 6 | SCR, 8 X 3/4 PFHT/S BLK ZINC | | |
| 14 | 86273750 | 70011 | 4 | SCR, 1/4-20 X 5/8 HHCS SS | | |
| 15 | 86273740 | 70010 | 2 | SCR, 1/4-20 X 1.50 HHCS SS | | |
| 16 | 86197040 | 57264 | 2 | NUT, 5/16-18 HEX ACORN PLTD | | |
| 17 | 86001530 | 40039 | 1 | HOSEBARB, 1/2MPT X 1/2 HOSE 90 | | |
| 18 | 86004000 | 35255 | 1 | GASKET, TANK LID | | |
| 19 | 86197820 | 31002 | 1 | ELBOW, 1.5 FPT X FS PVC | | |
| 20 | 86002380 | 20046 | 1 | CLAMP, 2.25 WORM GEAR | | |
| 21 | 86227120 | 4095 | 1 | ADAPTER, FLOAT 30 DEG | | |
| 22 | 86002620 | 260-64A | 1 | ACCESS, COVER CLEAR 6" W/RIM | | |
| 23 | 86199840 | 090-12A | 1 | FLOAT SCREEN CAGE ASSY (SLIP) | | |
| 24 | 86161460 | 15-808123 | 1 | DUMP VALVE, 1 1/2" | | _ |



| REF | PART NO. | PRV NO. | QTY | DESCRIPTION | SERIAL NO. FROM | NOTES |
|-----|----------|-----------|-----|-----------------------------------|--------------------|------------------------|
| 1 | 87100370 | - | 1 | FLOAT VALVE, BR END, 142PSI | | 2 COMPONENTS |
| 2 | 86327130 | - | 1 | WASHER,.88IDX1.28ODX.062THK NYL | | |
| 3 | 86327090 | - | 1 | HOSEBARB, 1/2F STR X 1/2 BR | | |
| 4 | 86324210 | - | 4 | SCR, 1/4-20 X 5/8 BHCS BLK | | |
| 5 | 86324200 | - | 1 | BRKT, LOCKING, AUTO FILL | | |
| 6 | 86324030 | - | 2 | BRKT, MOUNTING, SOLUTION | | |
| 7 | 86323330 | - | 2 | WASHER, 1/4 ID X 1.0 OD FLAT, BLK | | |
| 8 | 86321150 | - | 1 | TANK, SOL, TRIM, AF | | |
| 9 | 86318790 | - | 2 | WASHER, 1.032ID X 1.50D X .062THK | | |
| 10 | 86317560 | - | 1 | SPACER, .50 ODX .25 ID X 1.0L | | |
| 11 | 86197600 | 40033 | 1 | HOSEBARB, 1/4MPT X 3/8 90D DL | | |
| 12 | 86312010 | - | 1 | LID, SOLUTION, HINGE BRKT | | |
| 13 | 86312000 | - | 1 | LID, SOLUTION, COVER | | |
| 14 | 86311990 | - | 1 | HINGE, 9.5" LG X .074 THK | | |
| 15 | 86297620 | - | 2 | STRAP, HAND TOOL | | |
| 16 | 86010670 | 87029 | 2 | WASHER, 5/16 X 3/4 SS | | |
| 17 | 86010630 | 87013 | 12 | WASHER, 1/4 X 5/8 FLAT SS | | |
| 18 | 86233410 | 81270 | 2 | CLAMP, 3/4 DIA CUSHION .406 DIA | | |
| 19 | 86007970 | 73864 | 1 | STRAINER, 3/8 IN. NPT 60 MESH | | |
| 20 | 86276160 | 70604 | 2 | SCR, 10-32 X 5/8 PPHMS BLK | | |
| 21 | 86273830 | 70020 | 11 | SCR, 1/4-20 X 1/2 HHCS SS | | |
| 22 | 86273740 | 70010 | 1 | SCR, 1/4-20 X 1.50 HHCS SS | | |
| 23 | 86005810 | 57245 | 2 | NUT, 1/4-20 HEX NYLOCK SS | | |
| 24 | 86242130 | 48100 | 2 | KNOB, 1/4 HEX PRESS-LOC WING | | |
| 25 | 86197940 | 40027 | 1 | HOSEBARB, 3/8 MPT X 1/2 HOSE 90 | | |
| 26 | 86238460 | 36259 | 2 | HOOK, STRAP | | |
| 27 | 86197420 | 31026 | 1 | ELBOW, 3/8NPT STREET | | |
| 28 | 86233150 | 20042 | 3 | CLAMP, 3/8 WORM GEAR | | |
| 29 | 86173640 | 11-800437 | 2 | ADPT,3/8 BLKHD | | MULTIPLE COMPONENTS |



| REF | PART NO. | PRV NO. | QTY | DESCRIPTION | SERIAL NO. FROM | NOTES |
|-----|----------|-----------|-----|-------------------------------|--------------------|-----------------------------------|
| 1 | 86312120 | - | 1 | BASE, VAC MOTOR, 3-STAGE | | |
| 2 | 86318770 | - | 1 | VAC ASM, 3-STAGE, 120V | | |
| 3 | 86317630 | - | 4 | SCR, #8 X 3/4" PPHSMS TYPE AB | | |
| 4 | 86313810 | - | 1 | GASKET, VAC MANIFOLD, SINGLE | | |
| 5 | 86312340 | - | 1 | MANIFOLD, VACUUM | | |
| 6 | 86278990 | 87017 | 4 | WASHER, #8 X 3/8 FLAT | | |
| 7 | 86010630 | 87013 | 8 | WASHER, 1/4 X 5/8 FLAT SS | | |
| 8 | 86274090 | 70092 | 2 | SCR, 10-32 X 1.5 PPHMS | | |
| 9 | 86005810 | 57245 | 4 | NUT, 1/4-20 HEX NYLOCK SS | | |
| 10 | 86004300 | 39492 | 1 | HOSE, VAC, 1.5 ID X 30"L | | |
| 11 | 86002390 | 20063 | 2 | CLAMP, 1.75" WORM GEAR X .312 | | |
| 12 | 86277840 | 00-000167 | 4 | SCR, 1/4-20 X 6.5 HHCS PLT | | |
| 13 | 86312080 | - | 1 | COVER, VAC MOTOR | | |
| - | 86319030 | - | 1 | VAC HOUSING, 3 STAGE | | INCLUDES 86312080, 86312120 |



| R | EF | PART NO. | PRV NO. | QTY | DESCRIPTION | SERIAL NO. FROM | NOTES |
|---|----|----------|---------|-----|--------------------------------|--------------------|-------|
| | 1 | 86324280 | - | 1 | HARNESS, MAIN, DUAL CORD, 1200 | | |

Suggested Spare Parts

| PART NO. | PRV NO. | DESCRIPTION | SERIAL NO. FROM | NOTES |
|----------|---------|--------------------------------|--------------------|-------|
| 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 | | |
| 86318770 | - | VAC ASSY 3-STG, 120V | | |
| 86007140 | 72130 | SWITCH, SPST 2-POSITION ROCKER | | |
| 86309790 | - | WHEEL, 12" X 2.25" | | |
| 86001660 | 41236 | HUBCAP, 5/8" SHAFT | | |
| 86007970 | 73864 | STRAINER 3/8" NPT 60 MESH | | |
| 86308380 | - | KIT, CAM AND BEARING, 1200 | | |
| 86308370 | - | KIT, VALVE AND SEALS, 1200 | | |
| 86308360 | - | KIT, PLUNGER AND SEAL, 1200 | | |
| 86326890 | - | FUSE, 1/4" X 1-1/4", 20A | | |

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

Notes: