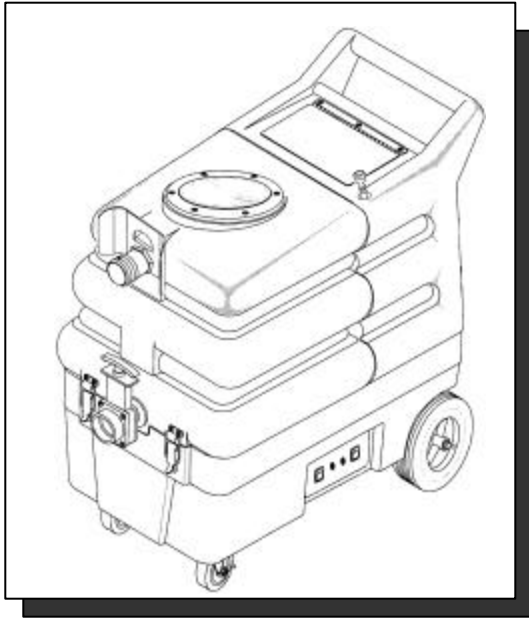


# GINSU

**CENTURY  
400**

## **SPECIALTY SURFACE CLEANING MACHINE**



Operating Instructions

**MODELS: GU10**

---

*Read these instructions before using the machine*



980146 12/02/05

# MACHINE DATA LOG

MODEL _____
DATE OF PURCHASE _____
SERIAL NUMBER _____
SALES REPRESENTATIVE # _____

<b>YOUR DEALER</b>
Name: _____
Address: _____
Phone Number: _____

## OVERVIEW

The Ginsu is a multi-functional cleaning machine intended for commercial use. The appliance applies chemical at low pressure and uses high pressure to clean with. Then the soiled water is vacuumed back into the recovery tank.

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# HOW TO USE THIS MANUAL

This manual contains the following sections:

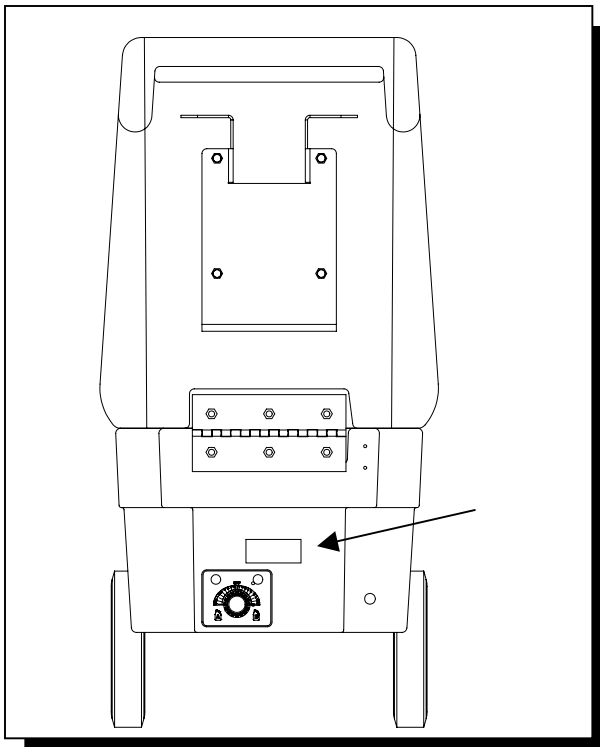
- HOW TO USE THIS MANUAL
- SAFETY
- OPERATIONS
- MAINTENANCE
- PARTS LIST

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 _____
SALES REPRESENTATIVE # _____

The model and serial number of your machine is on the bottom back-end of the machine.



The SAFETY section contains important information regarding hazard or unsafe practices of the machine. Levels of hazards is identified that could result in product or 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:

- Vacuum Motor
- Solution Pump
- Daily Maintenance
- Periodic Maintenance
- Service Schedule
- Machine 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.
- **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** – column indicates the first machine the part number is applicable to. When the machine design has changed, this column will indicate serial number of applicable machine. The main illustration shows the most current design of the machine. The boxed illustrations show older designs. If column has an asterisk (\*), call manufacturer for serial number.
- **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 98# on the lower left corner of the front cover is the part number for this manual.*

# 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.**



**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.

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

**Do not** point spray gun at people.

**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.

**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

## **HAZARD INTENSITY LEVEL**

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:

#### **⚠ WARNING**

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

#### **⚠ 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 Windsor approved replacement parts.

# 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.

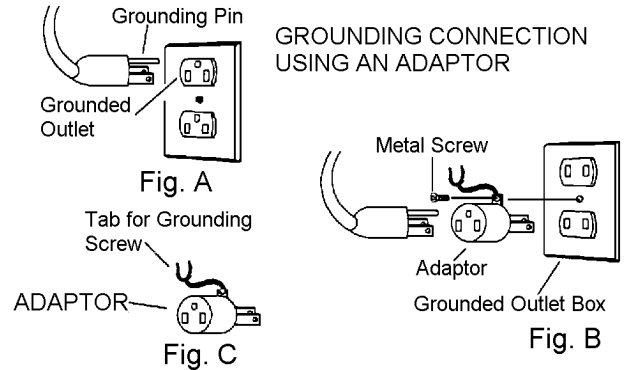
### **EXTENSION CORDS:**

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.

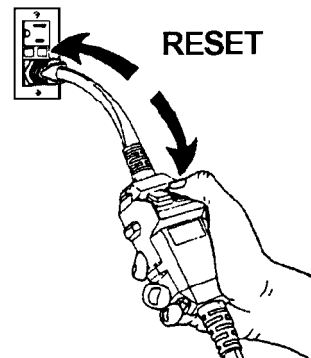


Note: Adaptors are not allowed in Canada.

**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.**

### **GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION**

This machine is provided with a (GFCI) built into the plug of the power supply cord. This device provides additional protection from the risk of electric shock. Should replacement of the plug or cord become necessary, use only identical replacement parts that include GFCI protection. If the GFCI is not the AUTOMATIC RESET TYPE, it must be manually TESTED and RESET each time the cleaning system is plugged in. Press firmly to assure internal spring activates switch. Push "test" then push "reset". Motor will not start if GFCI does not reset. Check circuit breakers or outlet. If circuit breaker is not tripped and unit will not reset, contact local service center.

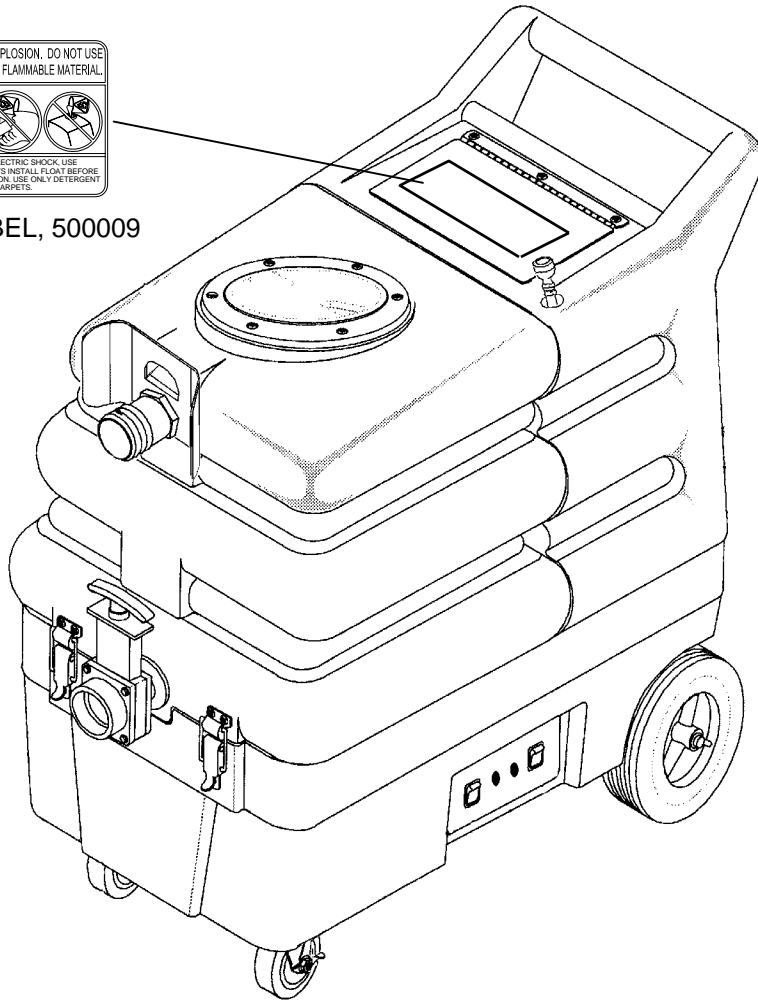


## SAFETY LABEL LOCATION

*NOTE: These drawings indicate the location of safety labels on the machine. If, at any time, the labels become illegible contact your C400 representative for prompt replacement.*



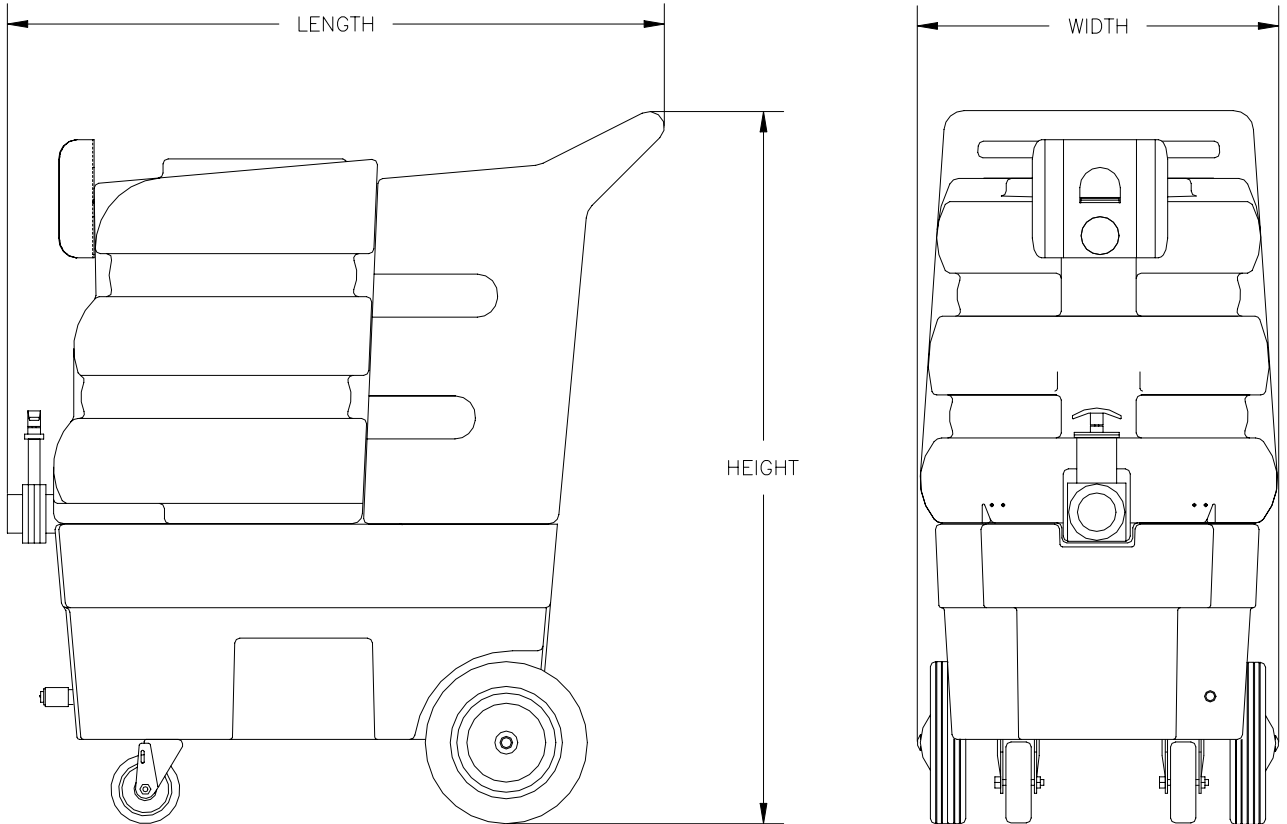
WARNING LABEL, 500009





## TECHNICAL SPECIFICATIONS

ITEM	DIMENSION/CAPACITY
Electrical	115V 60HZ 11A
Electric Vacuum Motor	2 STAGE
Solution Pump	500PSI
Solution Capacity	10 gal. (38L)
Recovery Capacity	11 gal. (42L)
Dimensions – Weight (Empty)	106 lbs. (48kgs)
Dimensions - Length	36 in. (914mm)
Dimensions - Height	36 in. (914mm)
Dimensions - Width	22 in. (589mm)
Power Cable	50 ft. (15.24M)



### SPECIAL NOTES:

The sound pressure level at 1m from the machine was measured to be 76 dBA. This was a nearfield, broadband measurement taken in a typical industrial environment on a tile floor. This appliance contains no possible source of impact noise. The instantaneous sound pressure is below 63 Pa.

The weighted root mean square acceleration at the operator's arms was measured to be below  $2.5\text{m/s}^2$ . This was a tri-axial, third-octave-band measurement made during normal operation on a composite tile floor. The measurement and related calculations were made in accordance with ANSI S3.34-T986.

## **HOW THE MACHINE WORKS**

This machine is a multi-functional cleaning machine intended for commercial use. The appliance applies chemical at low pressure and uses high pressure to clean with. Then the soiled water is vacuumed back into the recovery tank.

The machine's primary systems are the clean water system, recovery system, chemical system and pressure washer system.

The function of the clean water system is to store clean water and deliver it to the available tools. The clean water system consists of the clean water tank, strainer and check valve. The clean water tank stores water until it is delivered to the tools. The strainer protects the check valve and pump from debris. The check valve prevents the water from flowing back into the tank.

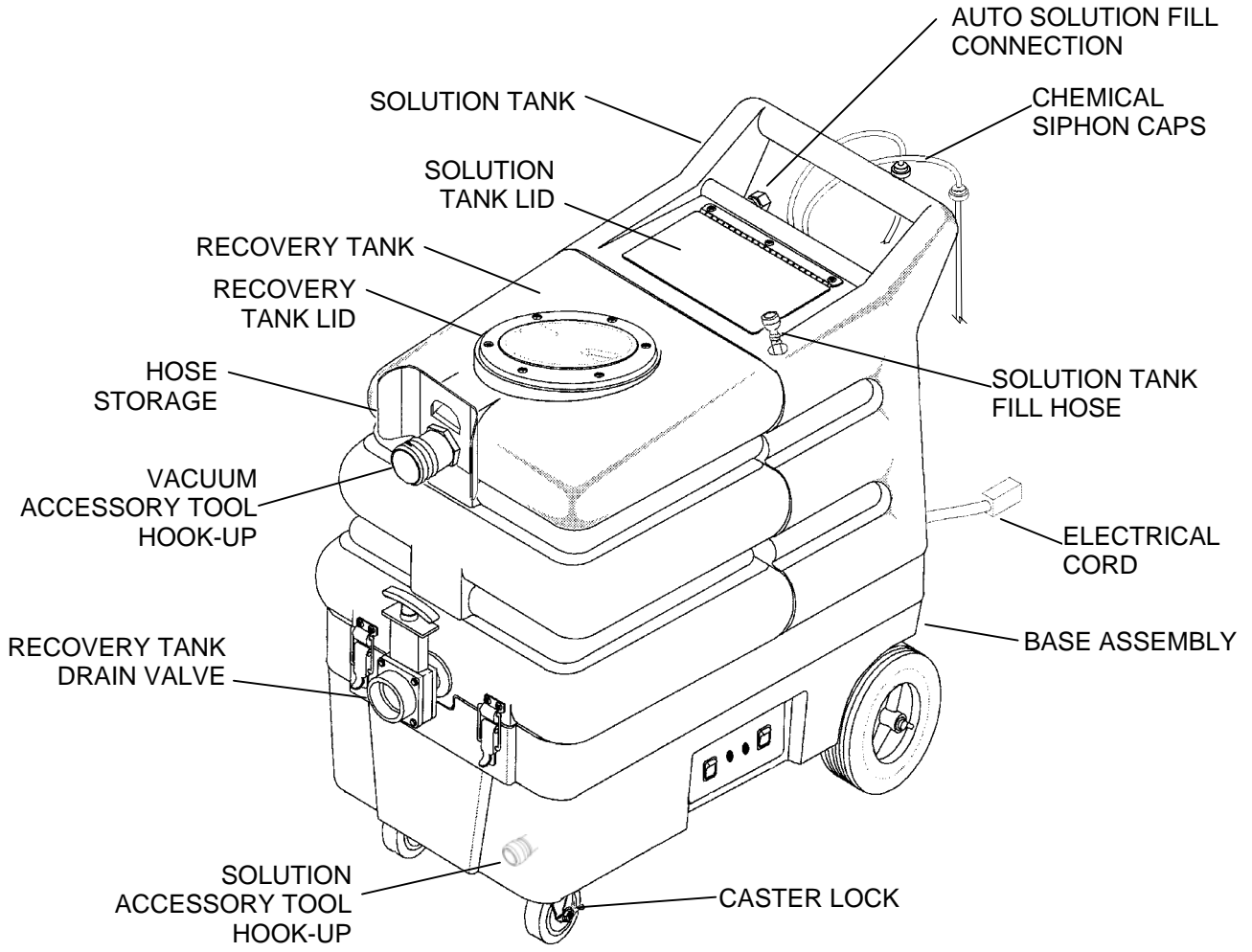
The function of the recovery system is to vacuum the soiled water back into the recovery tank. The recovery system consists of the wand and wheeled squeegee, vacuum motor, float shut-off and recovery tank. The wand and wheeled squeegee wipes the dirty solution off the floor. The vacuum motor provides suction to draw the dirty solution off the floor and into the recovery tank. The float shut-off protects the vacuum fan from over filling. The recovery tank stores the dirty solution.

The function of the chemical system is to dispense chemical into the clean water system. The chemical system consists of the chemical reservoir, chemical cap and a chemical-metering selector. The chemical reservoir stores and dispenses chemical into the clean water system. The chemical-metering selector meters the amount of chemical and selects between chemical A or B and turn chemical off.

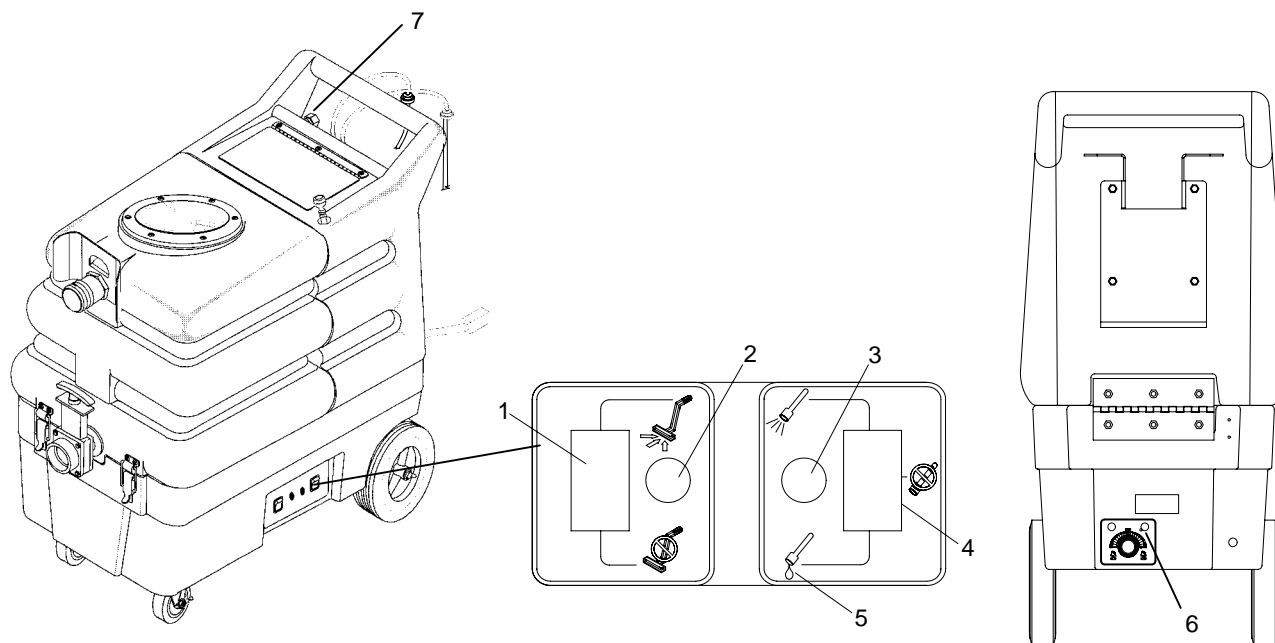
The function of the pressure washer system is to clean fixtures and other surfaces. The pressure washer system consists of a pump, high-pressure hose and spray gun. The pump delivers cleaning solution to the tools. The high-pressure hose connects the pump to the spray gun. The spray gun is an adjustable Hi-Lo that applies clean water and chemical to the surface being cleaned.

The function of the auto fill system is to be able to connect a garden hose to a constant water source. The valve and float inside the tank will automatically turn the water flow on and off to keep the tank full.

# COMPONENTS



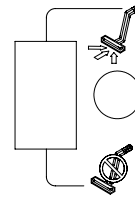
# CONTROLS



- 1. Vacuum Switch
- 2. Vacuum Circuit Breaker
- 3. Pump Circuit Breaker
- 4. Pump Switch
- 5. Prime Pump Switch
- 6. Chemical Selector and Metering Valve
- 7. Solution Auto Fill Connection

## 1. VACUUM SWITCH

Turns the vacuum motor On and Off.



## 2. VACUUM CIRCUIT BREAKER

10 Amp. Protects the vacuum motor.



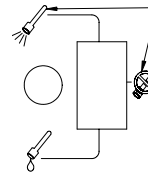
## 3. PUMP CIRCUIT BREAKER

6 Amp. Protects the pump motor.



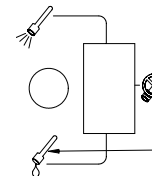
## 4. PUMP SWITCH

Turns the pump On and Off.



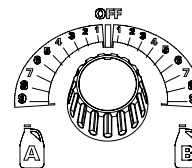
## 5. PRIME PUMP SWITCH

Primes the solution pump if necessary.



## 6. CHEMICAL SELECTOR AND METERING VALVE

Meters the amount of chemical being dispensed and selects between chemical A or chemical B and OFF.



## 7. SOLUTION AUTO FILL CONNECTION

The valve and float inside the tank automatically turn the water flow on and off to keep the tank full. Use only with normal city water pressure. Connect hose to wall faucet. Remove cap from machine hose connection and connect hose. Turn on water faucet to desired flow rate.

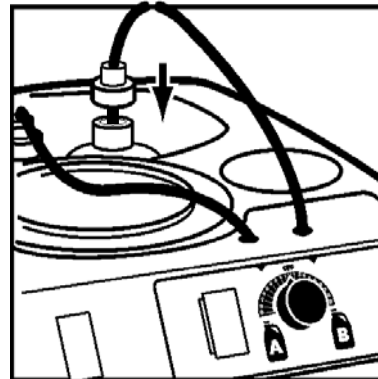
# OPERATIONS

## FILLING THE MACHINE

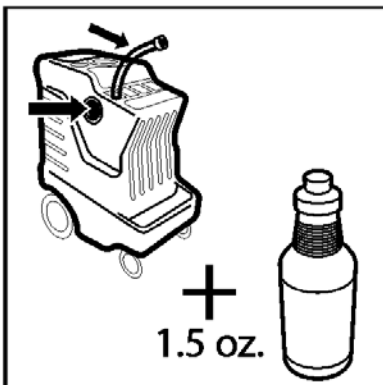
Do not put defoamer, solvents spotter or prespray chemicals in the solution tank.



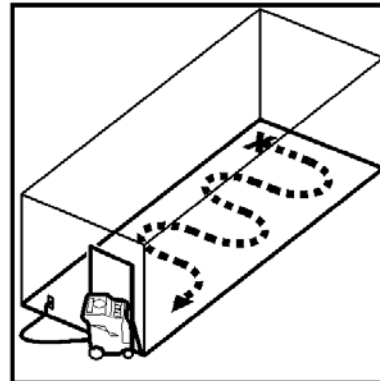
1. Always use gloves and eye protection. Never spray solution towards people.



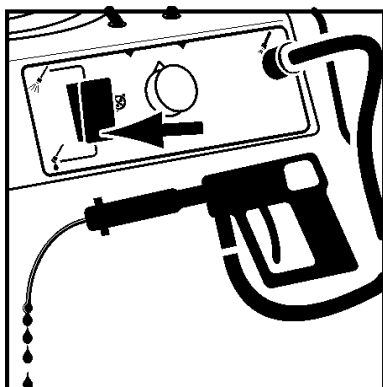
4. Attach the adapter cap and intake hose to the Chemical bottle. Refer to the Chemical Label for the desired dilution.



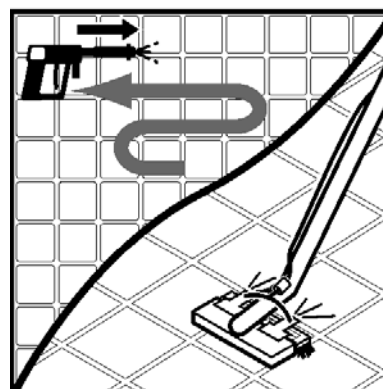
2. To fill Use fill hose or pour directly into solution tank. Use COLD WATER. Add 1 ½ oz of GinsuRinse to each full solution tank.



5. Position the machine in the door way, lock front casters. Start at furthest point in the room and work towards the door.

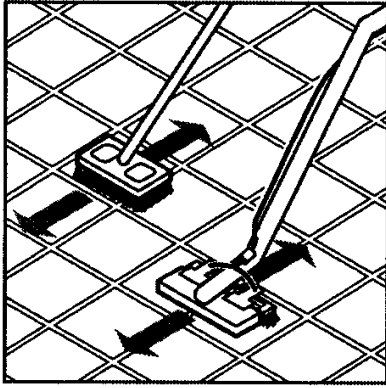


3. If needed prime pump by sealing gun to vacuum port and spraying directly at low pressure.

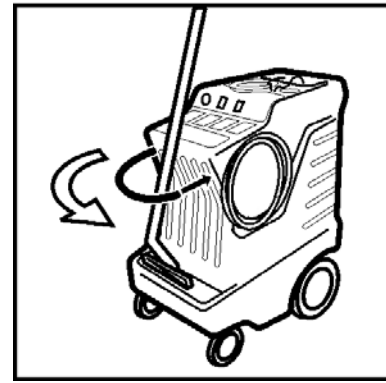


6. Always Spray chemical using low pressure.

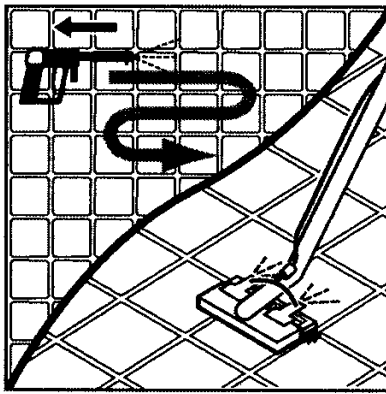
## OPERATIONS



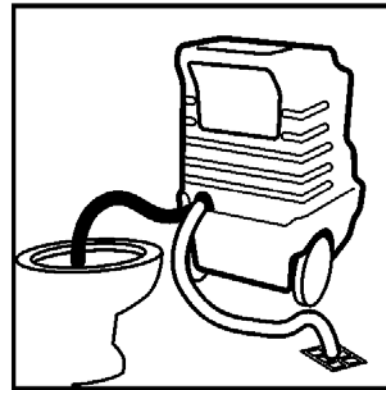
7. Use brush or grout tool for heavy soiled areas.



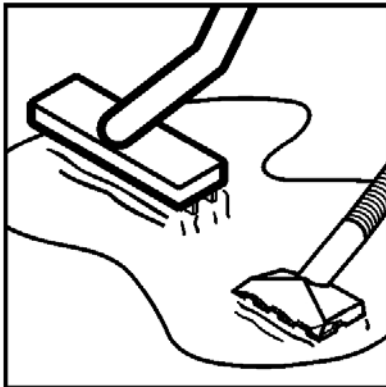
10. Store and secure hoses and tools neatly.



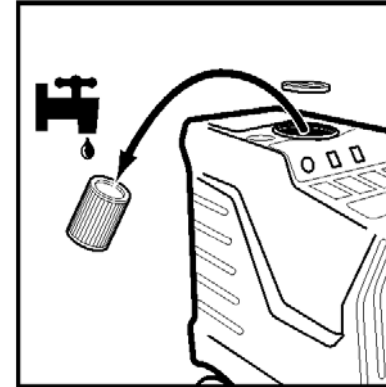
8. Turn Chemical off. Pressure clean by rinsing surfaces at high pressure.



11. Drain machine at proper disposal areas. Use pressure gun to rinse and clean recovery tank.



9. Use Squeegee or Gulper tool to remove standing water.



12. When using dry filter, gently remove and wash with water after every use. Allow to dry before re-using.

## OPERATIONS

### WARNING:

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.

### 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      Non-Compatible

<i>Alkalis</i>	<i>Aldehydes</i>
<i>Detergents</i>	<i>Aromatics Hydrocarbons</i>
<i>Hydroxides</i>	<i>SP Butyls</i>
<i>Soaps</i>	<i>Carbon Tetrachloride</i>
<i>Vinegar</i>	<i>Clorox*</i>
	<i>Chlorinated Bleaches</i>
	<i>Chlorinated Hydrocarbons</i>
	<i>Lysol*</i>
	<i>Methyl Ethel Ketone (MEK)</i>
	<i>Perchlorethylene (perc)</i>
	<i>Phenolics</i>
	<i>Trichlorethylene</i>
	<i>D-Limonene</i>

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.

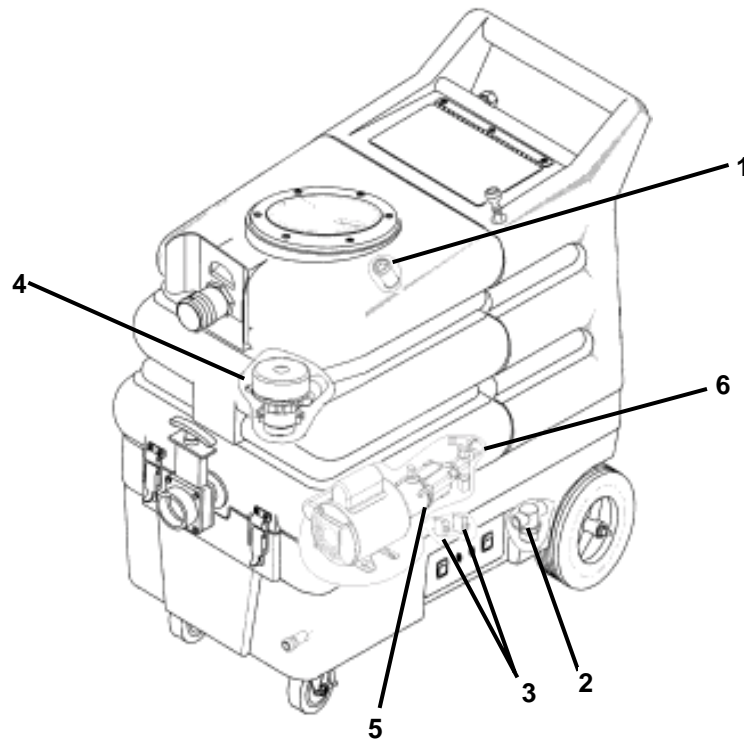
### WARNING:

Do not let pump run dry.

### WARNING:

Do not let pump run unattended.





- 
- 1. Float Shut-Off
  - 2. Strainer
  - 3. Circuit Breakers

- 4. Vacuum Motor
- 5. Pump
- 6. Adjustable Unloader Valve

## MAINTENANCE

### 1. FLOAT SHUT-OFF

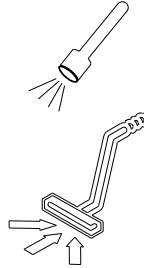
The float shut-off is located inside the recovery tank. The purpose of the float shut-off is to notify the user that the recovery tank is full. Remove daily and clean any debris for maximum airflow.

### 2. STRAINER

The strainer is located on the lower right side between the front and rear wheels. The strainer protects the check valve and pump from debris. If there is little or no solution flow to the ground, check the strainer for debris. Drain the solution tank and clean the solution strainer. To remove the strainer, turn the bottom part of the strainer counterclockwise until the bottom is separated. Clean out the debris from the wire mesh and reassemble. Make sure the o-ring gasket is in place when reassembled.

### 3. CIRCUIT BREAKERS

Circuit breakers interrupt the flow of power in the event of an electrical overload. When a circuit breaker is tripped, reset it by pressing the exposed button. If a circuit breaker continues to trip, the cause of the electrical overload should be found and corrected.



6 Amp. Protects the pump motor.

10 Amp. Protects the vacuum motor.

## 4. VACUUM MOTOR

(Refer to vacuum group in the parts section of manual).

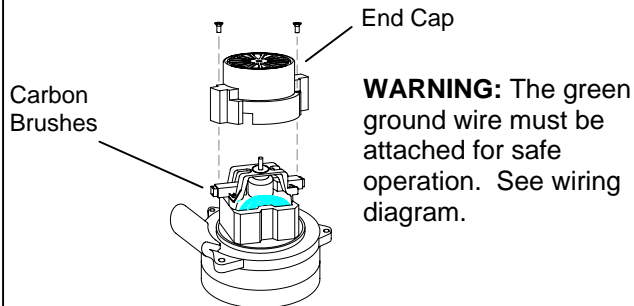
### **WARNING:**

**ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.**

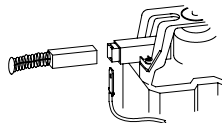
### VACUUM MOTOR REPLACEMENT

1. Turn off all switches and unplug machine.
2. Drain tanks and remove all chemicals and accessories.
3. Unlatch two front latches and hinge tanks back.
4. Locate the vacuum motor wires and disconnect at the connector.
5. Remove the vacuum motor.
6. Reverse process to install.

#### Vacuum Motor Carbon Brushes Replacement (Windsor)

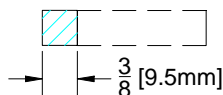


If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center.



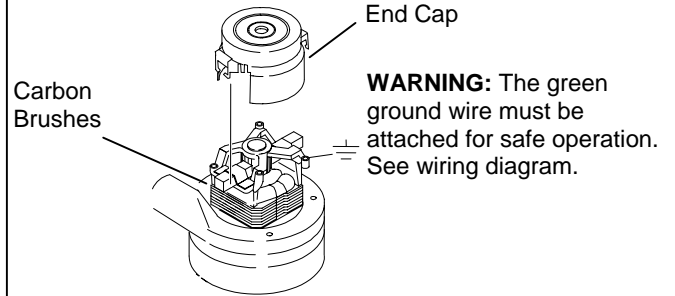
#### **Important:**

*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.*

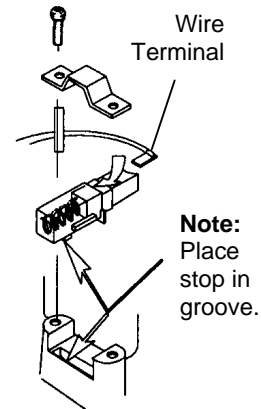


Periodically check the length of the carbon brushes. Replace both carbon brushes when either is less than 3/8" (9.5mm) long.

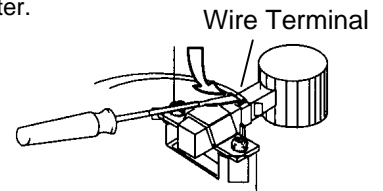
#### Vacuum Motor Carbon Brushes Replacement (Ametek)



**Note:** When replacing carbon brushes loosen wire terminal **BEFORE** removing screws on bracket.

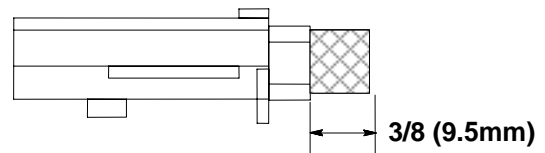


If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center.



#### **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.

# MAINTENANCE

## 5. PUMP

**⚠ WARNING:**

ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

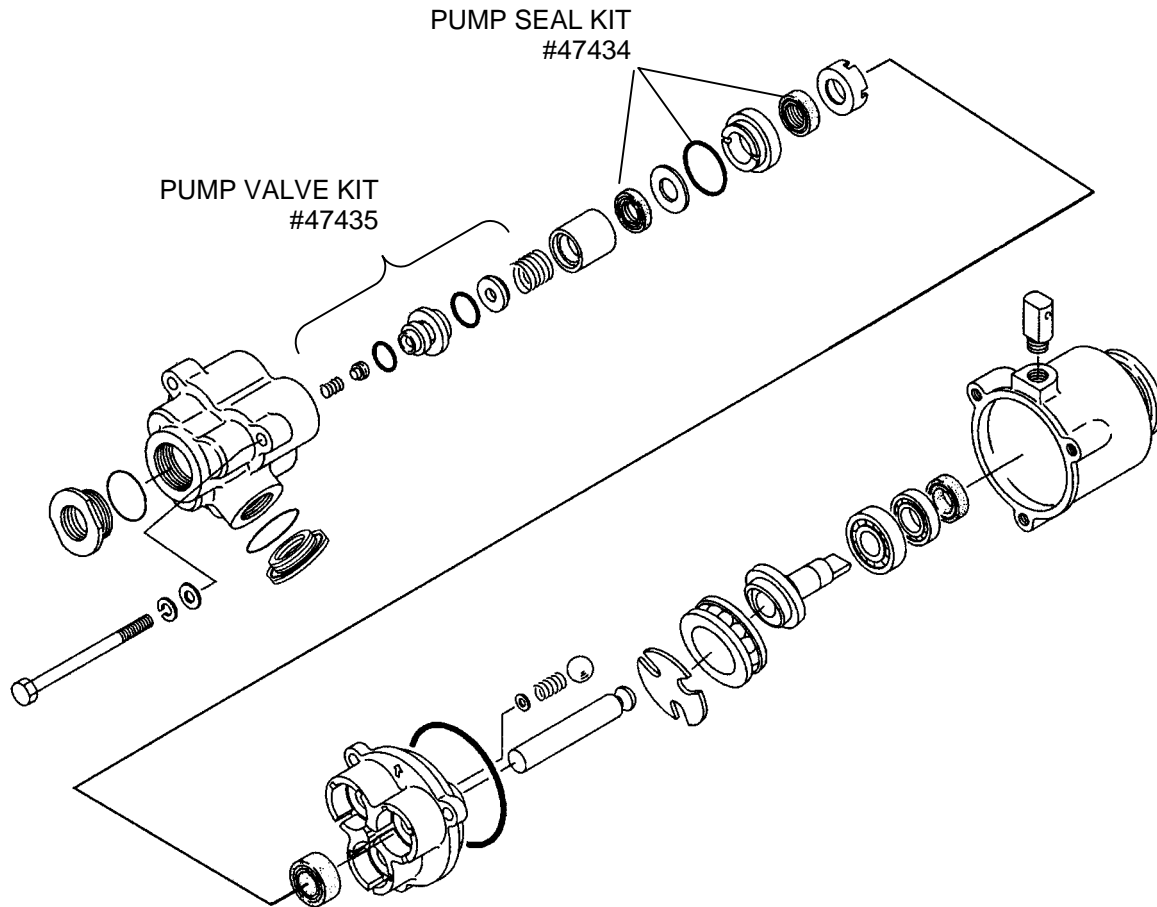
**⚠ CAUTION:**

DO NOT OVERTIGHTEN THE RTP PUMP.

TORQUE CHART			
ITEM	SIZE	IN. LBS	Nm
PUMP INLET	1/2"	25	3
CLAMP SCREW	10-32	20	2.4

### SOLUTION PUMP REPLACEMENT

1. Turn off all switches and unplug machine.
2. Drain tanks and remove all chemicals and accessories.
3. Unlatch two front latches and hinge tanks back.
4. Remove the solution hoses from the fittings on the pump.
5. Remove the clamp that fastens the pump to the motor.
6. Reverse process to install.



## 6. REGULATING UNLOADER

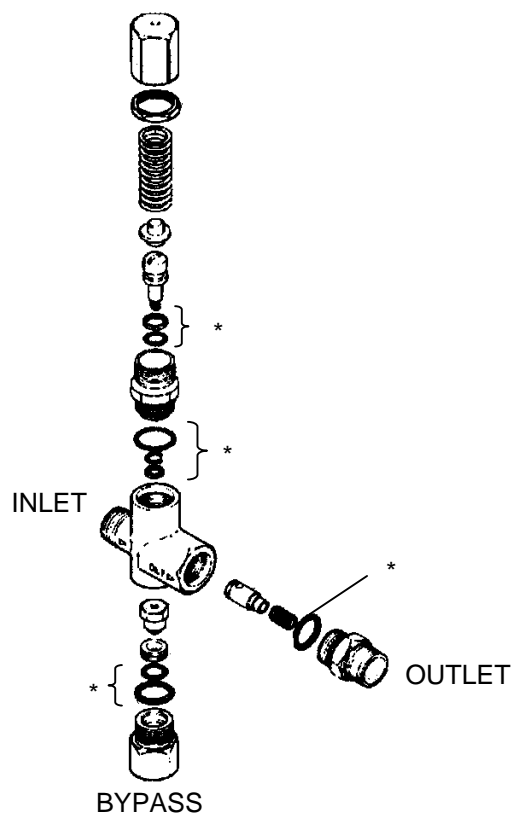
### **⚠ WARNING:**

ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

#### UNLOADER REPLACEMENT

1. Turn off all switches and unplug machine.
2. Drain tanks and remove all chemicals and accessories.
3. Unhook front latches and tilt tanks back so inside of base frame is exposed.
4. Remove the solution hoses from the fittings on the pump.
5. Remove the unloader.
6. Reverse process to install.

NOTE: Kit #47436 includes all o-rings marked with an asterisk (\*) below.



# MAINTENANCE

## 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. If spray jets become clogged, remove the spray tips, wash them thoroughly, and blow dry.

*NOTE: Do not use pins, wires, etc. to clean nozzles as this could destroy the spray pattern.*

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

Before making any adjustments to the machine, disconnect the power cord from the electrical source.

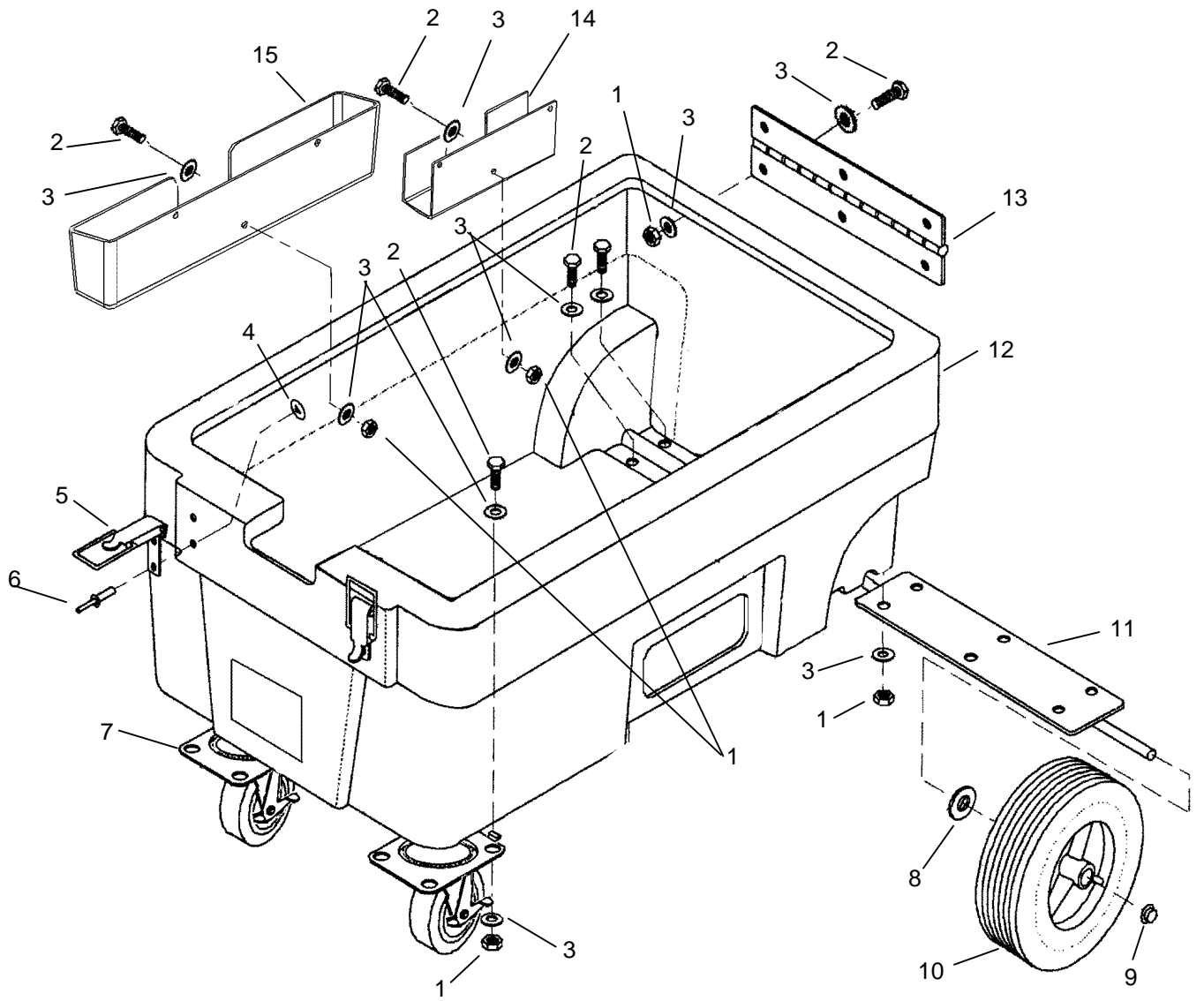
1. Empty unused cleaning solution from the solution tank.
2. Inspect and clean filter screen in solution tank.
3. Flush pumping system with 4 to 7 liters of clean water.
4. After each use, rinse tank with fresh water. Periodically inspect the recovery tank and decontaminate if necessary, using a Hospital Grade Virucide or a 10-1 bleach to water solution. Waste water should be disposed of properly.
5. Remove filter to clean. Filters used for wet pickup including striper must be thoroughly cleaned before being allowed to dry.
6. Check spray jets for full spray pattern.

***NOTE: Worn filters can affect vacuum performance. Replace the filter when it becomes worn out and normal cleaning will not restore vac performance.***

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	*		
Check vac motor intake filter and clean	*		
Run one gallon of water through 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 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 bearings for noise		*	
Check all gaskets for wear and leakage		*	
Check vacuum intake screen for damage; replace if necessary		*	
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			*

<b>PROBLEM</b>	<b>CAUSE</b>	<b>SOLUTION</b>
Loss of Power	Dead electrical circuit	Check building circuit breaker or fuse box.
	Faulty power cord	Replace
Electrical shock	Equipment not grounding	Follow grounding instructions exactly
	Receptacle not grounded	Contact an electrician to check building's wiring
	Internal wiring problem	Have a trained service technician check machine's wiring
Vac motor speed varies or doesn't run	Worn motor brushes	Replace
	Motor worn out	Replace
	Faulty switch	Replace
Loss of vacuum	Loose vacuum dome	Center and seal dome over tank
	Vacuum circuit breaker tripped.	Reset breaker.
	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
	Loose cuffs on vacuum hose	Tighten cuffs turning counterclockwise
	Vac motor seals leaking	Replace
	Floor tool vac chamber clogged	Wash out with hose. Pick lint out with a wire
	Vac motor, hose, or dome gasket	Replace
Pump runs no solution	Pump inlet screen plugged	Clean inlet screen
	Pump circuit breaker tripped.	Reset breaker.
	Faulty pump switch.	Call for service.
	Faulty pump motor.	Call for service.
	Pump air locked	Press trigger to open valve on cleaning wand to relieve air
	Internal or external solution line damaged and leaking	Replace
Pump runs, loss of pressure	Jet orifice on cleaning wand is to large	Total jet opening for 100 psi should be .06 to .08
	Internal pump components wearing out	Replace, see pump kit components (pg 4-3)
	Note: Operation of pump using a wand or hand tool with an orifice of less than .06 will cause pump to cavitate or pulsate and could result in premature wear of pump components.	
	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
Pump will not run	Unit not plugged in	Connect unit to 3 prong grounded outlet
	Loose wiring	See dealer
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.

# BASE

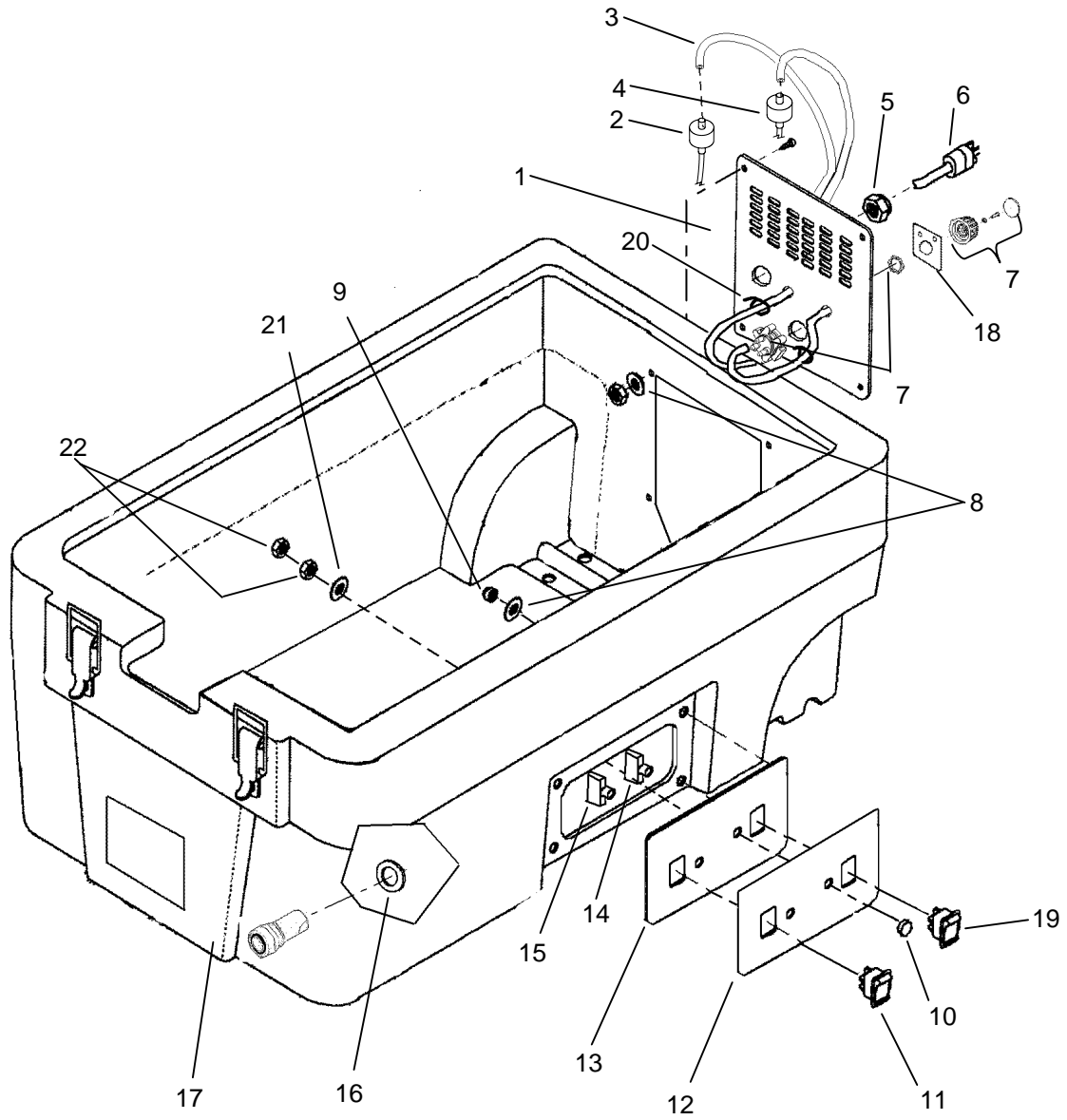




**BASE**

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	57245	21	NUT, 1/4-20 HEX NYLOCK SS		
2	70015	21	SCR, 1/4-20 X 3/4 HHCS SS NP		
3	87013	42	WASHER, 1/4 ID X 5/8 OD SS		
4	87095	4	WASHER, #10 FLAT PLTD		
5	140-05	2	DRAW PULL LATCH STD.		
6	280-02	4	RIVET AL. 3/16 X 1/2 CLOSED		
7	18044	2	CASTER, 4" SWIVEL W/ BRAKE		
8	87080	2	WASHER, .5 X 1.25 FLAT GR8 PLT		
9	57196	2	NUT, 1/2 PUSH-ON DOME CAP		
10	040-06	2	WHEEL 8" BLK CENTERED HUB		
11	56-502068	1	AXLE ASSEMBLY		
12	75443	1	BASE		
13	46-802536	1	HINGE, SOL & VAC TANK 4" X 8"		
14	140668	1	BRKT, TOOL BASE		
15	75444	1	TRAY, 15 X 2 X 4		

# CONTROLS

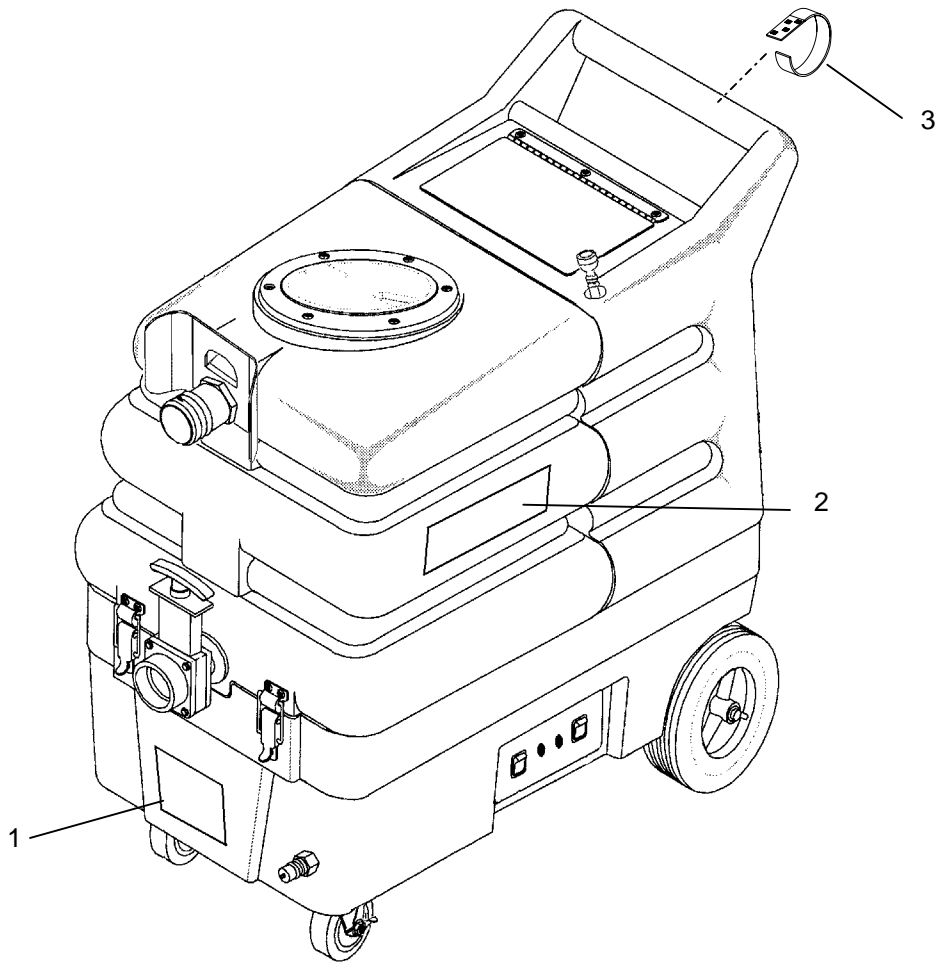


## CONTROLS

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	620013	1	PLATE, REAR METERING		
2	270699	2	CAP, CHEM FEED W/DIP TUBE	1000136313	* SEE NOTE
3	39205	2	HOSE, 1/4 NYLOBRAID X 57"		
4	70547	4	SCR, 10-32 X 1 PPHMS BLK		
5	73505	1	STRAIN RELIEF, 1/2 NPT TRUMPET		
6	23214	1	CORD SET, 14/3 X 60"		
7	84187	1	VALVE, CHEMICAL METERING		
8	87018	8	WASHER, #10 X 9/16OD		
9	57090	8	NUT, 10-32 HEX NYLOCK SS		
10	14942	2	BOOT, 3/8 CIRCUIT BREAKER		
11	72128	1	SWITCH, DPDT 2-POSITION ROCKER		
12	500813	1	LABEL, SWITCH PANEL		
13	620014	1	PLATE, SWITCH PANEL		
14	14832	1	BREAKER, 6A VDE CIRCUIT		
15	14635	1	BREAKER, 10A CIRCUIT		
16	390-09A	1	WASHER, 9/16 S/S USS-THICK		
17	22015	1	COUPLER, 1/4 QD		
18	500812	1	LABEL, CHEM PANEL		
19	72126	1	SWITCH, DPDT 3-POSITION ROCKER		
20	27051	2	CABLE TIE, 11.38" UL/CSA		
21	87016	1	WASHER, #10 LOCK EXT STAR SS		
22	57104	2	NUT, 10-32 W/STAR WASHER PLTD		

\* SEE SUGGESTED CHEMICAL LIST, SECTION 3 (OPERATIONS).

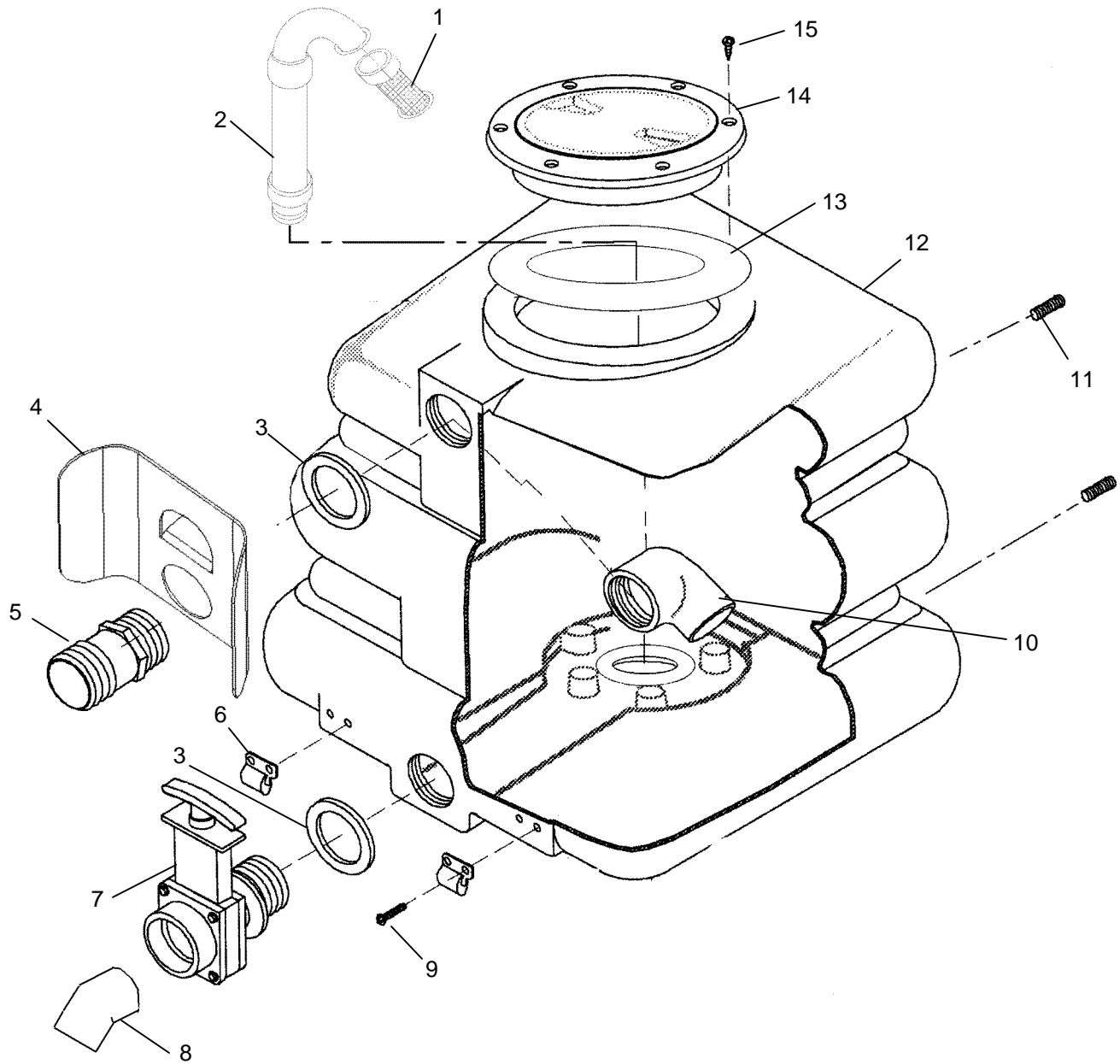
# LABELS & STRAPS



## **LABELS & STRAPS**

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	500794	1	LABEL, C400 LOGO		
2	500811	2	LABEL, MAIN GINSU		
3	320-05	1	STRAP, VELCRO		

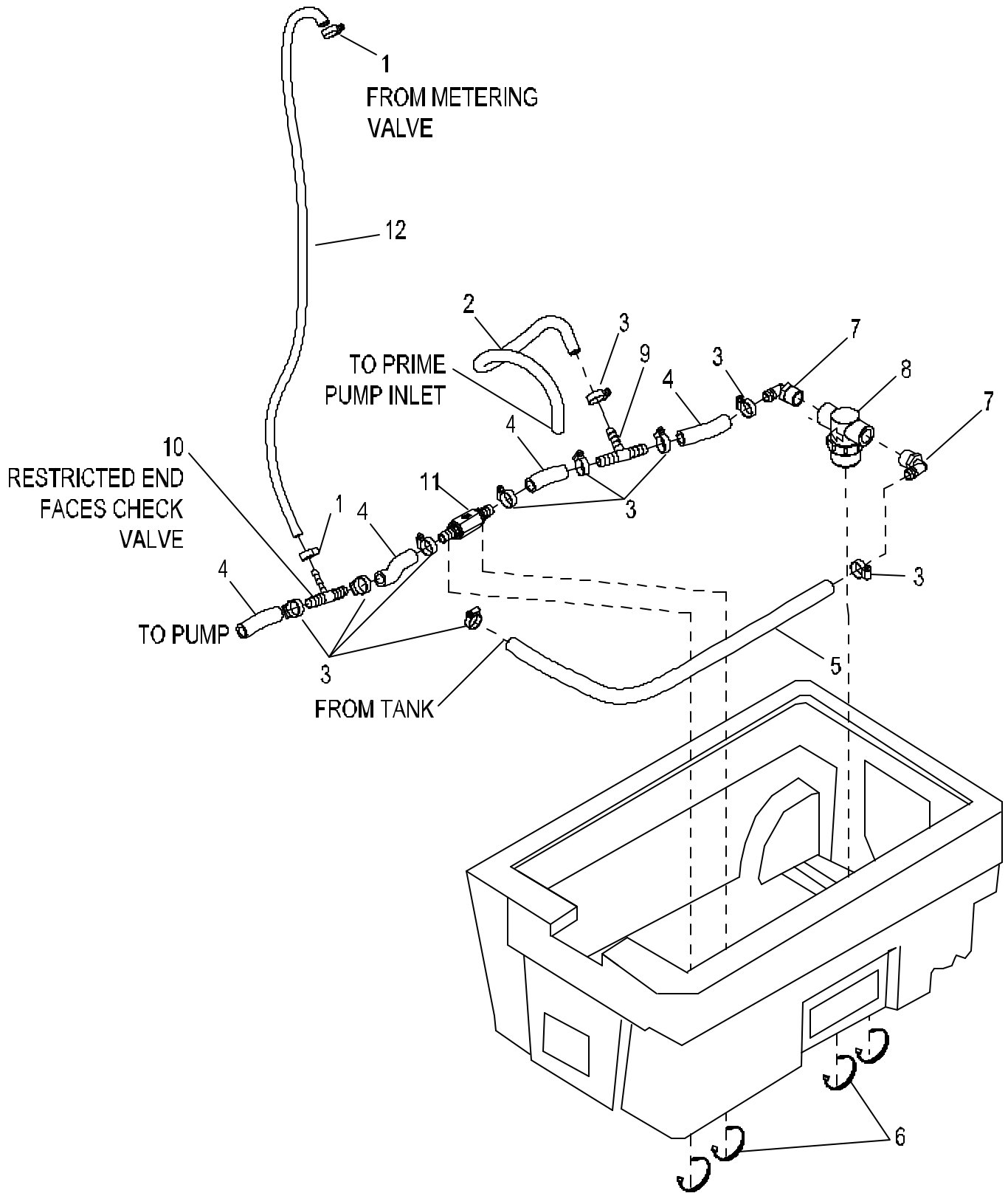
# RECOVERY TANK



## RECOVERY TANK

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	090-12A	1	FLOAT CAGE ASSY COMPLETE SLIP		
2	78489	1	VAC, STACK ASM.		
3	35256	2	GASKET, DUMP VALVE		
4	140669	1	BRKT, HOSE		
5	260-33	1	HOSEBARB, 1.5 MPT X 1.5		
6	140-05	2	DRAW PULL LATCH STD.		
7	15-808123	1	DUMP VALVE, 2"		
8	11-800444	1	ELBOW, 2" 45D PVC SCH40		
9	70683	4	SCR, 10-32 X 3/8 PPHMS SS NP		
10	31002	1	ELBOW, 1.5 FPT X FS PVC		
11	81491	4	SET SCR, 5/16-18 X 1.5 CP SS		
12	75445	1	TANK, RECOVERY		
13	35255	1	GASKET, TANK LID		
14	260-64A	1	ACCESS COVER CLEAR 6" W/RIM		
15	70546	6	SCR, 8 X 3/4 PFHT/S BLK ZINC		

# SOLUTION HOSES & FITTINGS

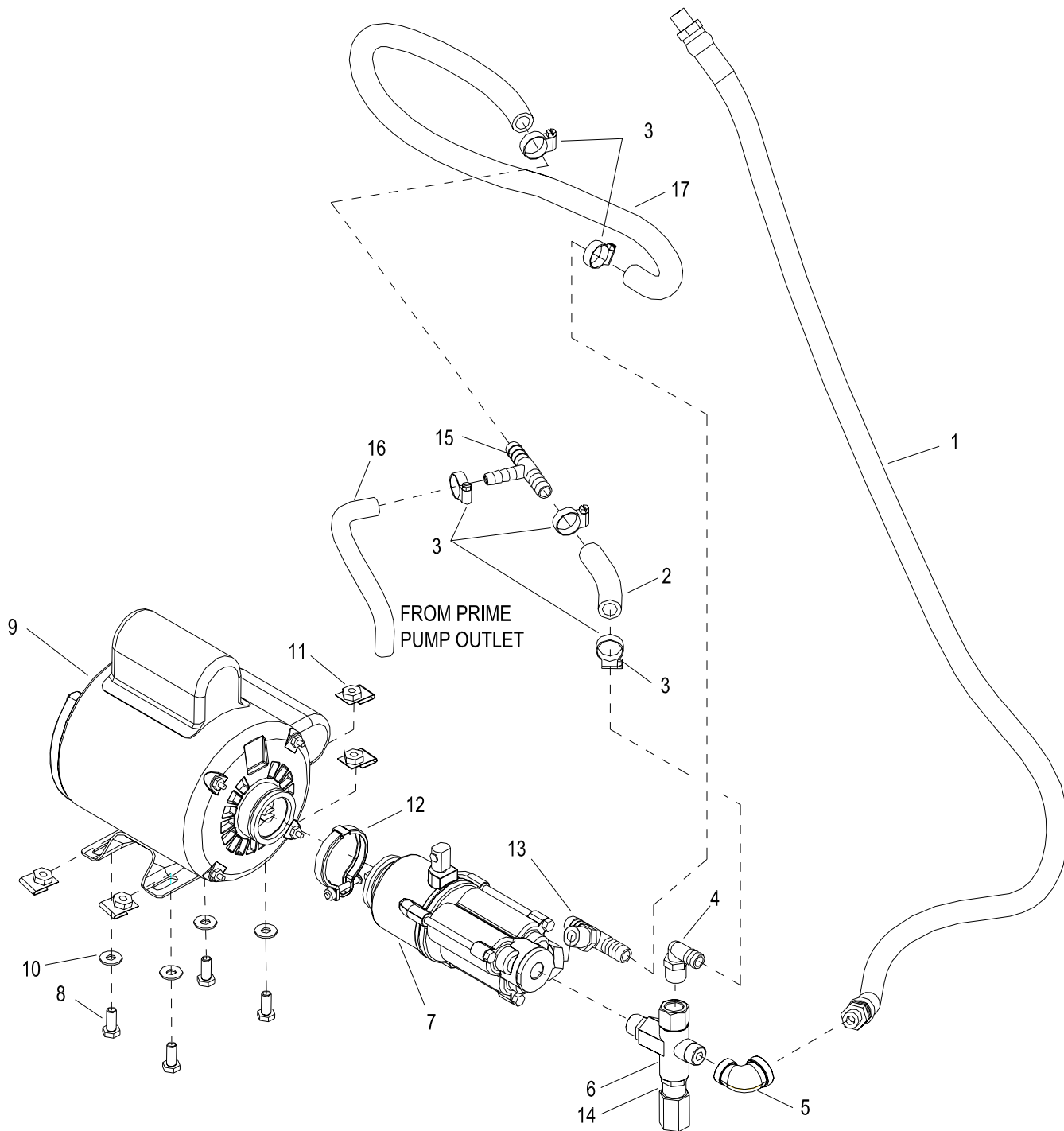




## SOLUTION HOSES & FITTINGS

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	20016	2	CLAMP, 1/4 ID HOSE	1000134745	
2	39413	1	HOSE, 3/8 NYLOBRAID X 17"		
3	20042	10	CLAMP, 3/8 HOSE (D-SLOT)		
4	39629	4	HOSE, 1/2 WIRE BOUND X 3"		
5	39631	1	HOSE, 1/2 WIRE BOUND X 25		
6	27051	4	CABLE TIE, 11.38" UL/CSA		
7	40039	2	HOSEBARB, 1/2 MPT X 1/2 HOSE 90		
8	730262	1	STRAINER, 1/2 FPT 80 MESH		
-	73785	-	SCREEN, 80 MESH		SERVICE ONLY
-	27372	-	CAP, STRAINER 26/32		SERVICE ONLY
-	59021	-	O-RING, FILTER SEAL RON-VIK		SERVICE ONLY
9	830147	1	HOSEBARB, 1/2 X 1/2 X 3/8 TEE		
10	78561	1	TEE, CHEMICAL SIPHON		
11	84188	1	VALVE, CHECK 1/2 HOSEBARB		
12	39634	1	HOSE, 1/4 NYLOBRAID X 23"		

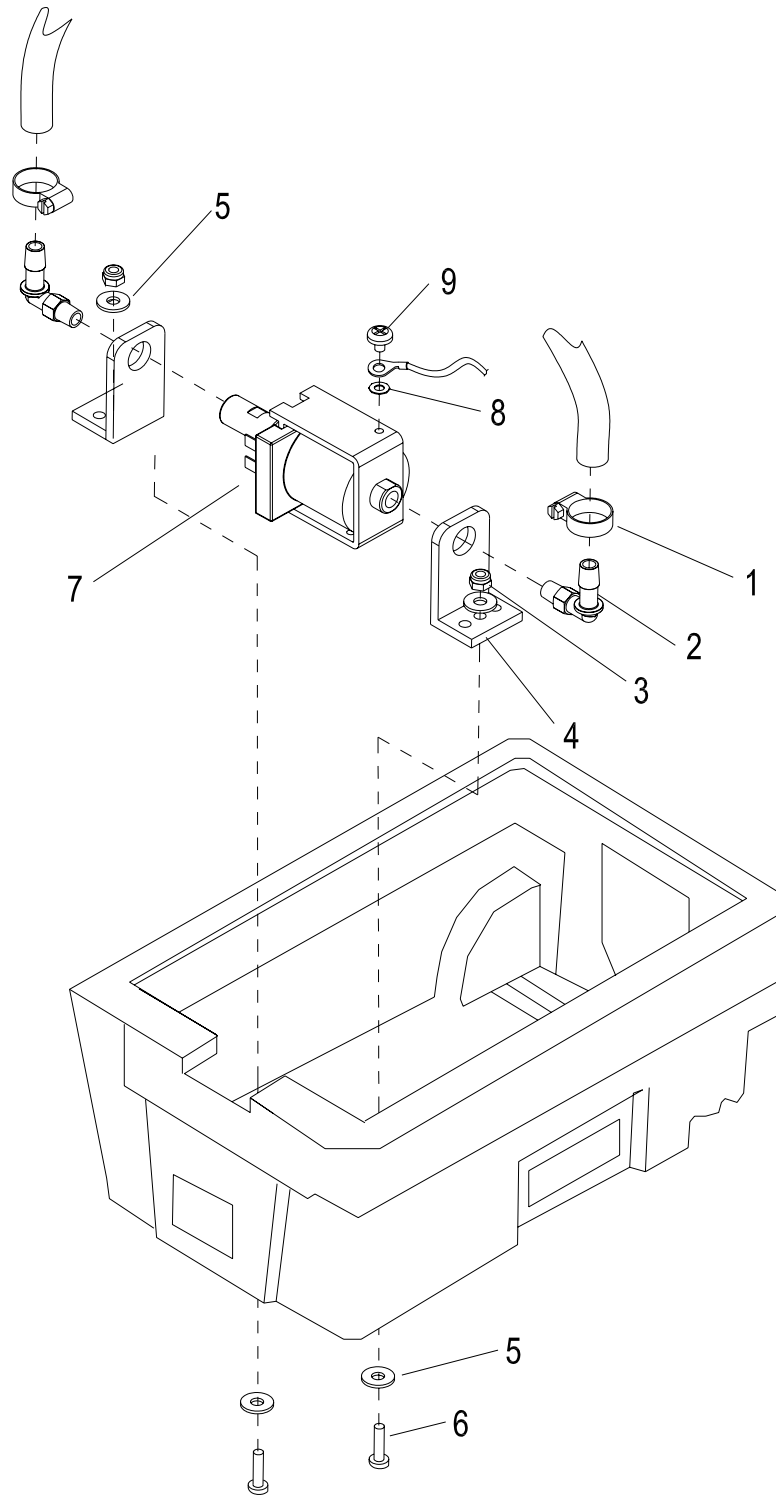
# SOLUTION PUMP & MOTOR



## SOLUTION PUMP & MOTOR

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	39695	1	HOSE, HP 50 1/4 MPT X 1/4 MPT		
2	39549	1	HOSE, 1/2 WIRE BOUND X 5"		
3	20042	5	CLAMP, 3/8 HOSE (D-SLOT)		
4	40027	1	HOSEBARB, 3/8 MPT X 1/2 90° DL		
5	31018	1	ELBOW, 3/8 FPT X 1/4 FPT		
6	84190	1	VALVE, REGULATING UNLOADER		
7	65230	1	PUMP, 500 PSI 1GPM		
8	70015	4	SCR, 1-4-20 X 3/4 HHCS SS NP		
9	53265	1	MOTOR, 115V 1/3HP PUMP		
10	87013	4	WASHER, 1/4 ID C 5/8 OD SS		
11	57123	4	NUT, 1/4-20 CAPTIVE (.074 W)		
12	20105	1	CLAMP, PUMP TO MOUNT		SERVICE ONLY
13	40068	1	HOSEBARB, 3/8" NPT X 1/2 TEE DL		
14	730259	1	SPACER, .88 OD X .719 ID X .385 L		
15	830147	1	HOSEBARB, 1/2 X 1/2 X 3/8 TEE		
16	39361	1	HOSE, 3/8 NYLOBRAID X 7.5"		
17	39541	1	HOSE, 1/2 WIRE BOUND X 32"		

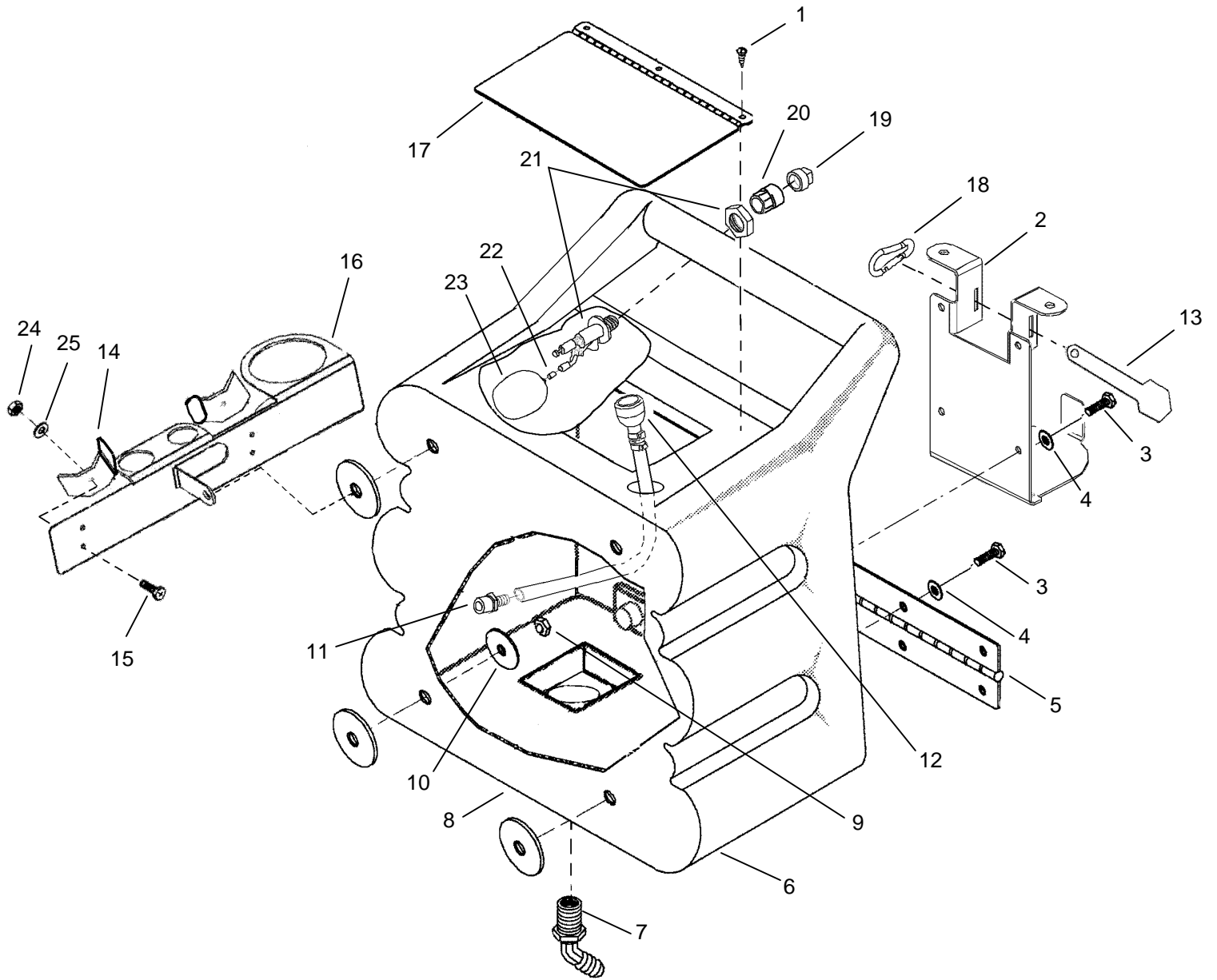
# SOLUTION PRIME PUMP



## SOLUTION PRIME PUMP

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	20042	2	CLAMP, 3/8 HOSE (D-SLOT)		
2	40066	2	HOSEBARB, 1/8 NPT X 3/8 90° PLAST		
3	57245	2	NUT, 1/4-20 HEX NYLOCK SS		
4	140446	2	BRKT, PVC FLOJET PUMP L-SHAPE		
5	87013	4	WASHER, 1/4 ID X 5/8 OD SS		
6	70015	2	SCR, 1/4-20 X 3/4 HHCS SS NP		
7	250-78	1	PUMP, 110/120 60HZ FLOJET		
8	87016	1	WASHER, #10 LOCK EXT STAR SS		
9	70323	1	SCR, 10-32 X 1/4 PHTR PLTD		

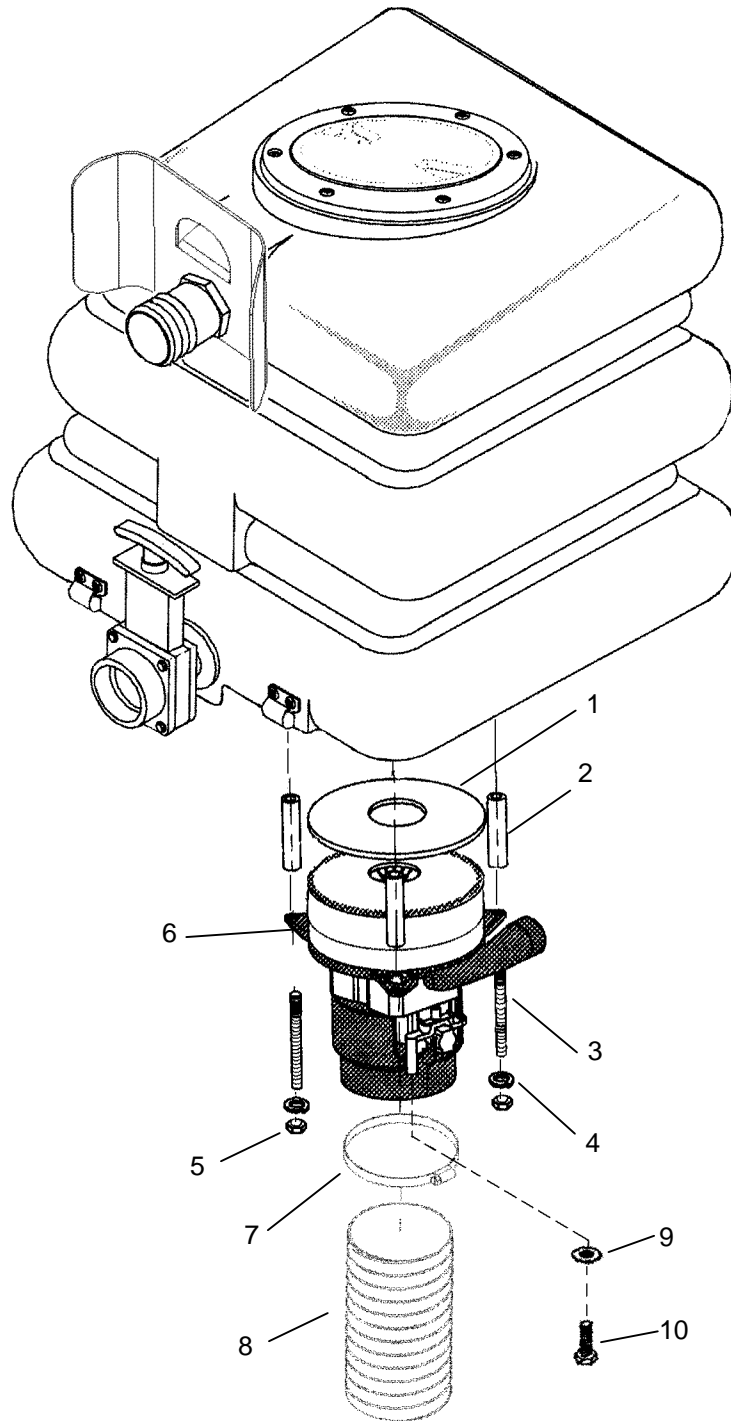
# SOLUTION TANK



## SOLUTION TANK

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	70222	3	SCR, #8 X 1/2 PPHST BLK		
2	140666	1	BRKT, CHEM BOTTLE		
3	70020	7	SCR, 1/4-20 X 1/2 HHCS SS		
4	87013	7	WASHER, 1/4 ID X 5/8 OD SS		
5	46-802536	1	HINGE, SOL & VAC TANK 4" X 8"		
6	75446	1	TANK, SOLUTION		
7	40039	1	HOSEBARB, 1/2MPT X 1/2 HOSE 90		
8	35182	4	GASKET, FRAME		
9	57023	4	NUT, 5/16-18 HEX NYLOCK SS		
10	87222	4	WASHER, SEAL 5/16 X 3/4 OD		
11	40077	1	HOSEBARB, 3/4MPT X 1/2 HOSE		
12	39633	1	HOSE ASM., SOLUTION FILL		
13	66405	1	PIN, BOTTLE LOCK		
14	730232	2	STRAP, 1.5" X 8.00" VELCRO		
15	70683	4	SCR, 10-32 X 3/8 PPHMS SS NP		
16	140667	1	BRKT, TOOL HOLDER		
17	56-502072	1	LID, SOLUTION TANK		
18	41386	1	HOOK, SAFETY CLIP		
19	34419	1	FITTING, PLUG GARDEN HOSE		
20	34420	1	FITTING, GARDEN HOSE F X 1/2FPT		
21	15-808110	1	VALVE, FLOAT		
22	70251	1	SET SCR, 1/4-20 X 1.0 PLTD DL		
23	19-807014	1	BALL, FLOAT		
24	57104	4	NUT, 10-32 W/STAR WASHER PLTD		
25	87018	4	WASHER, #8 INT. STAR		

# VACUUM MOTOR

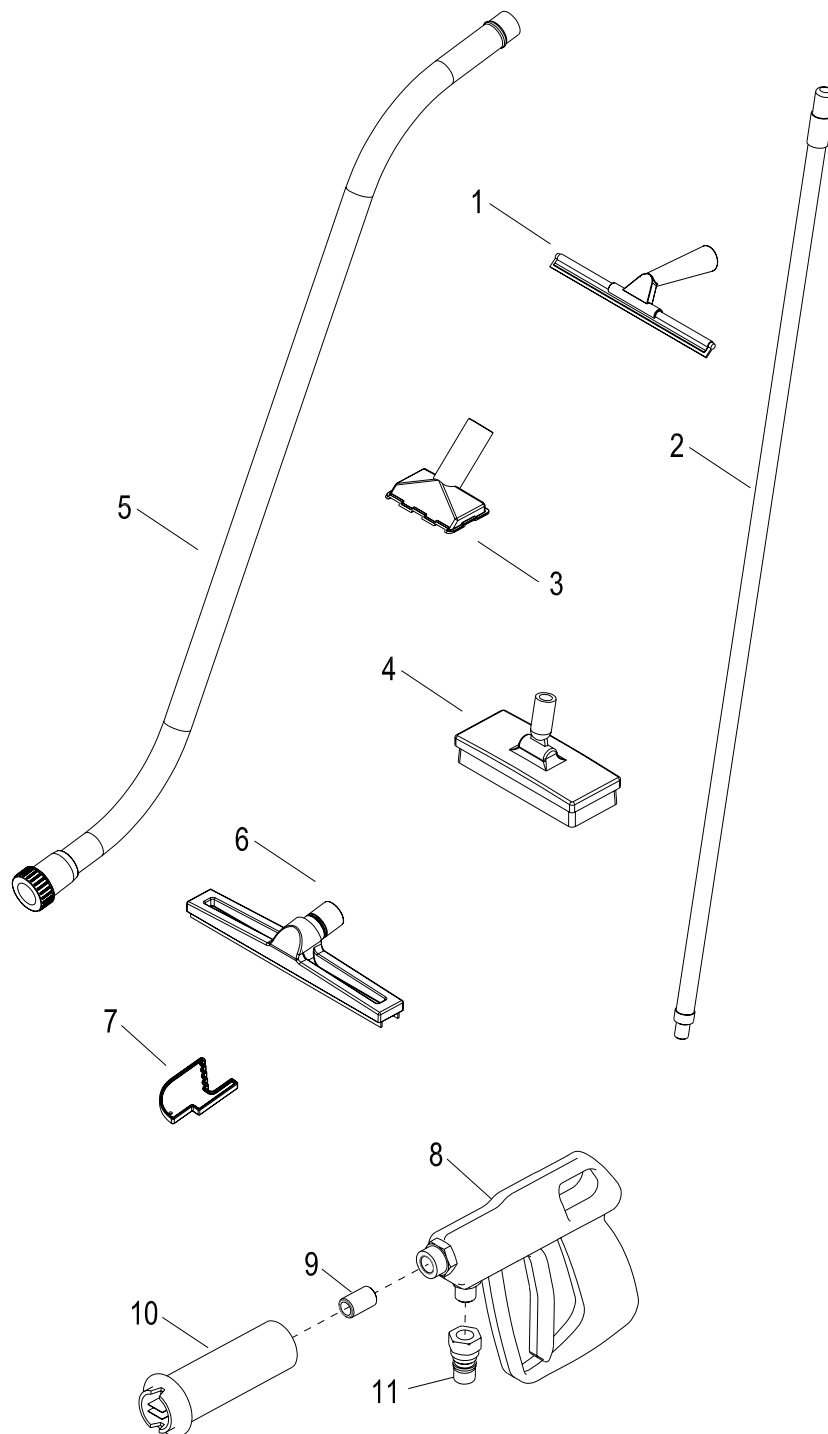




## VACUUM MOTOR

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	35166	1	GASKET, VAC MOTOR		
2	065-92	3	VAC SPACER, 2-1/4		
3	70814	3	STUD, 1/4-20 X 4.5 SS		
4	87013	3	WASHER, 1/4ID X 5/8OD SS		
5	57105	3	NUT, 1/4-20 HEX W/ STAR WASHER		
6	360-04A	1	VAC MOTOR, 120V 5.7 2 ST TD		
-	360-04B	-	BRUSHES, VACUUM FOR 116392-00		SERVICE ONLY
-	140687	-	BRUSH SET, 120V VAC WINDSOR	1000121568	SERVICE ONLY
7	20092	1	CLAMP, 3.5" WORM GEAR		
8	39697	1	HOSE, 3.15 ID X 7.0L VENT		
9	87016	1	WASHER, #10 LOCK EXT STAR		
10	70191	1	SCR, 10-24 X 1/2 HHTC TYPE 23		

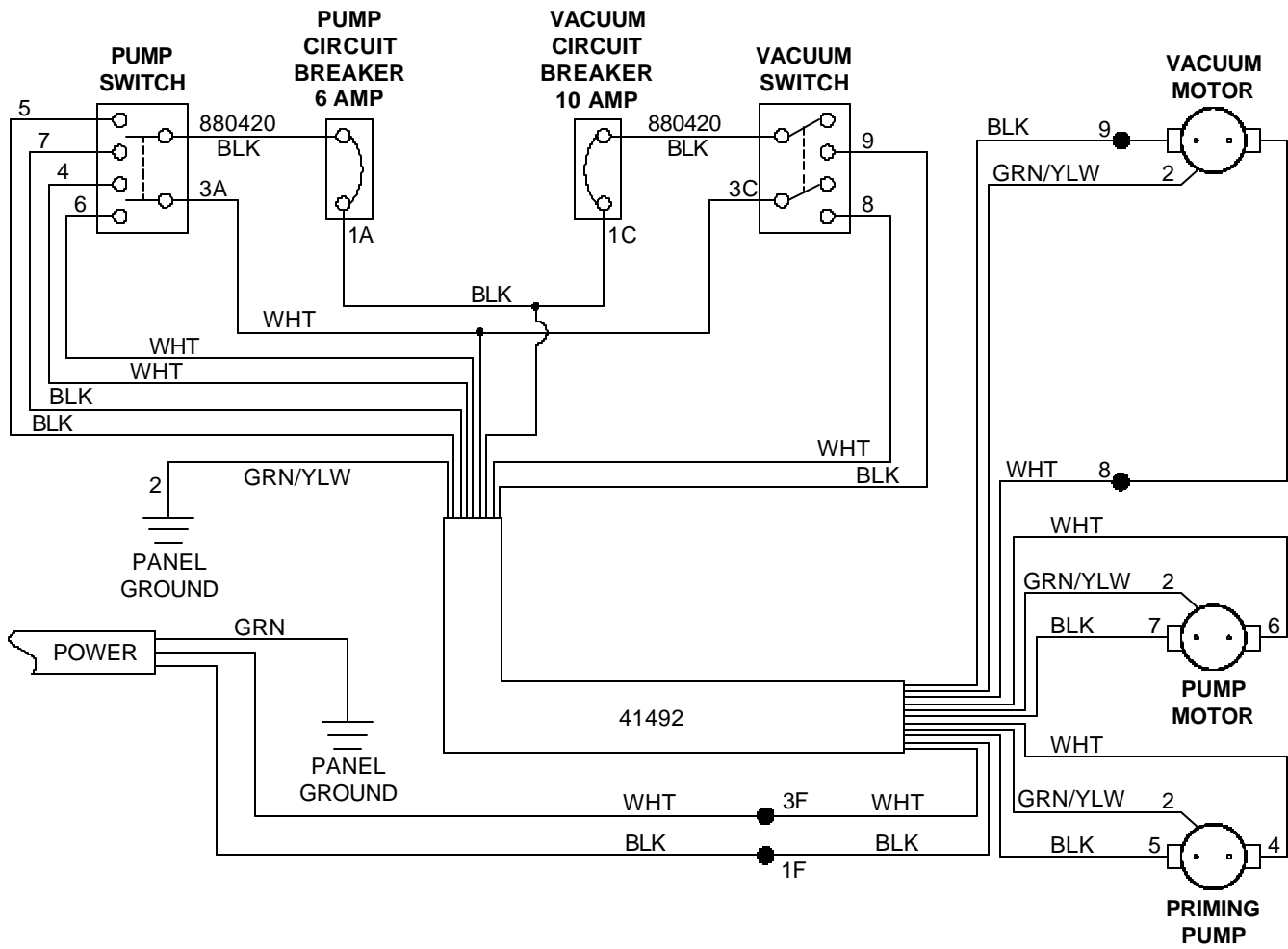
# TOOLS - STANDARD



## TOOLS - STANDARD

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	02478	1	TOOL, HAND SQUEEGEE		
2	02477	1	TOOL, SCRUB BRUSH HANDLE		
3	02475	1	TOOL, GULPER		
4	02479	1	TOOL, TILE BRUSH		
5	02480	1	TOOL, ALUMINUM WAND		
6	02473	1	TOOL, WHEELED SQUEEGEE		
7	02481	1	TOOL, DOOR WEDGE		
8	36233	1	GUN, PRESSURE WASH		
9	56014	1	NIPPLE, 1/4 CLOSE		
10	58005	1	NOZZLE, ADJUSTABLE HI-LO		
11	56012	1	NIPPLE, 1/4 FPT QD		
12	39578	1	HOSE ASM, 1/4HP SLTN 25 FT		NOT SHOWN
13	39637	1	HOSE ASM, 1.5 X 30 FT		NOT SHOWN

# WIRING - SCHEMATIC



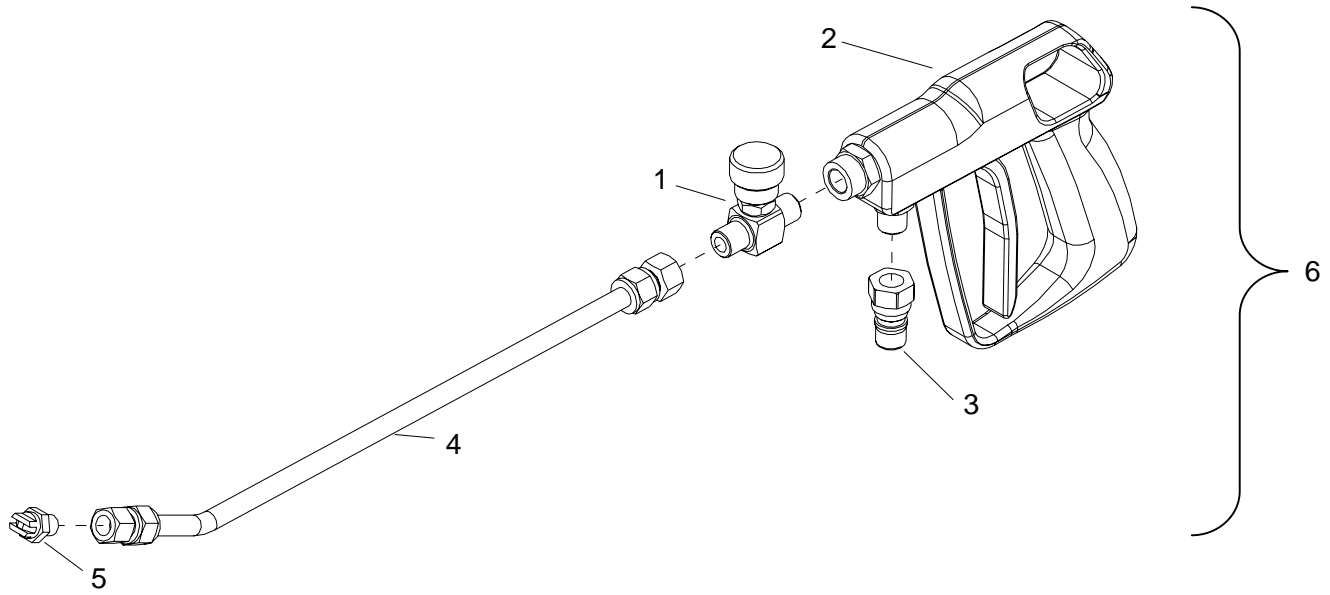
## WIRING - SCHEMATIC

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	880420	2	WIRE, 5" BLK/14 76022 X 76022		
2	41492	1	HARNESS, COMPASS		
3A	23214	1	CORD SET, 14/3 X 60"		NOT SHOWN
3B	23716	1	CORD SET, 14/3 X 31	*	
4	23215	1	CORD SET, 14/3 X 50' GFCI YLW		NOT SHOWN

## SUGGESTED SPARE PARTS

PART NO.	DESCRIPTION	SERIAL NO. FROM	NOTES:
47419	KIT, SQUEEGEE TOOL BLADES		
730262	STRAINER, 1/2 FPT 80 MESH		
360-04B	BRUSHES, VAC FOR 116392-00		
140687	BRUSH SET, 120V VAC WINDSOR	1000121568	
53266	VAC MOTOR ASM, 115V W/ TERM		
14942	BOOT, 3/8 CIRCUIT BREAKER		
14832	BREAKER, 6A VDE CIRCUIT		
14635	BREAKER, 10A CIRCUIT		

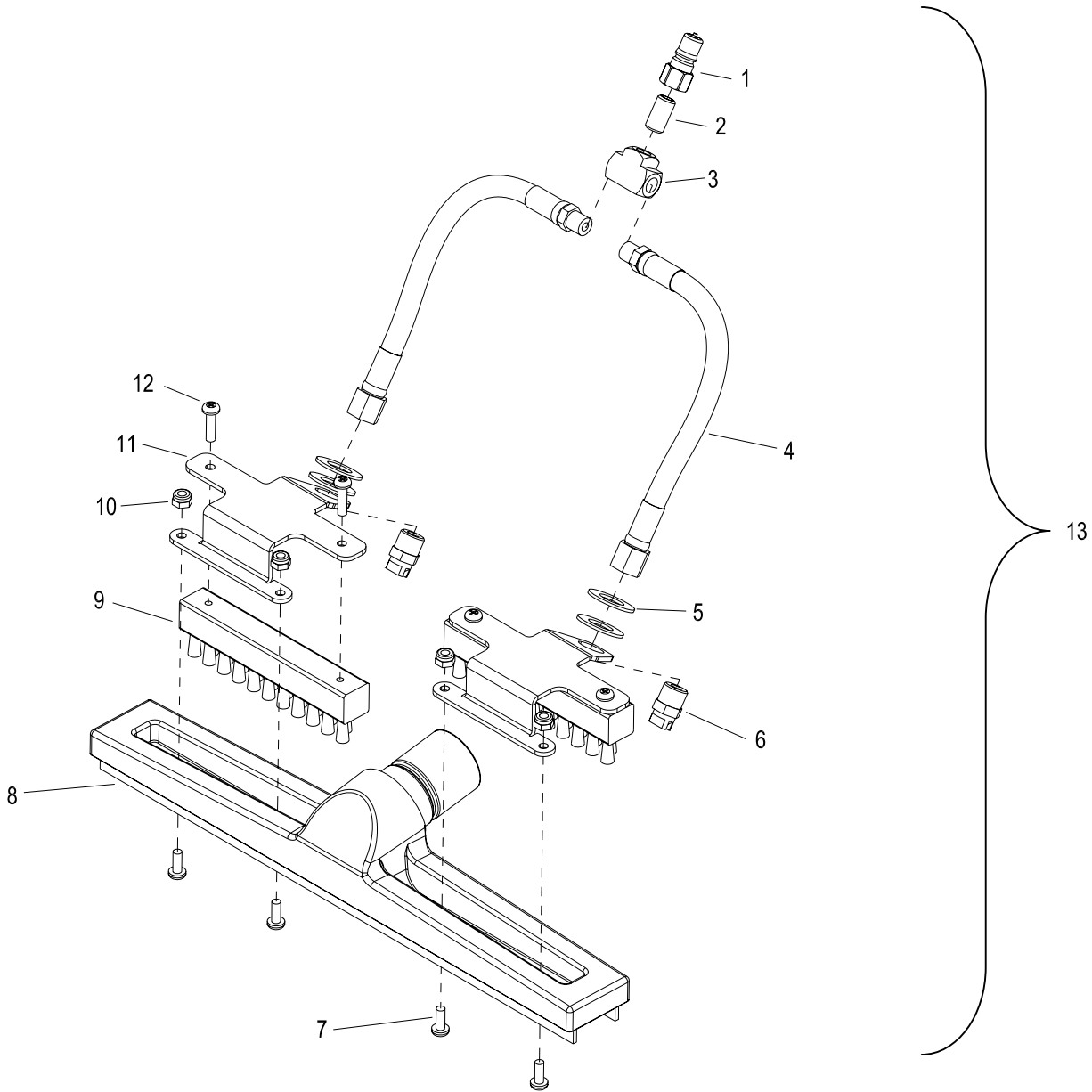
# TOOLS – LOW FLOW SPRAY GUN OPTION



## **TOOLS – LOW FLOW SPRAY GUN OPTION**

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	84186	1	VALVE, FLOW ADJUSTMENT		84186
2	36233	1	GUN, PRESSURE WASH		36233
3	56012	1	NIPPLE, 1/4 FPT QD		56012
4	51389	1	LANCE, SPRAY GUN		51389
5	44078	1	JET, 1/ H-VV 8003		44078
6	47427	REF	KIT, LOW FLOW SPRAY GUN		47427

# TOOLS – GROUT CLEANER OPTION

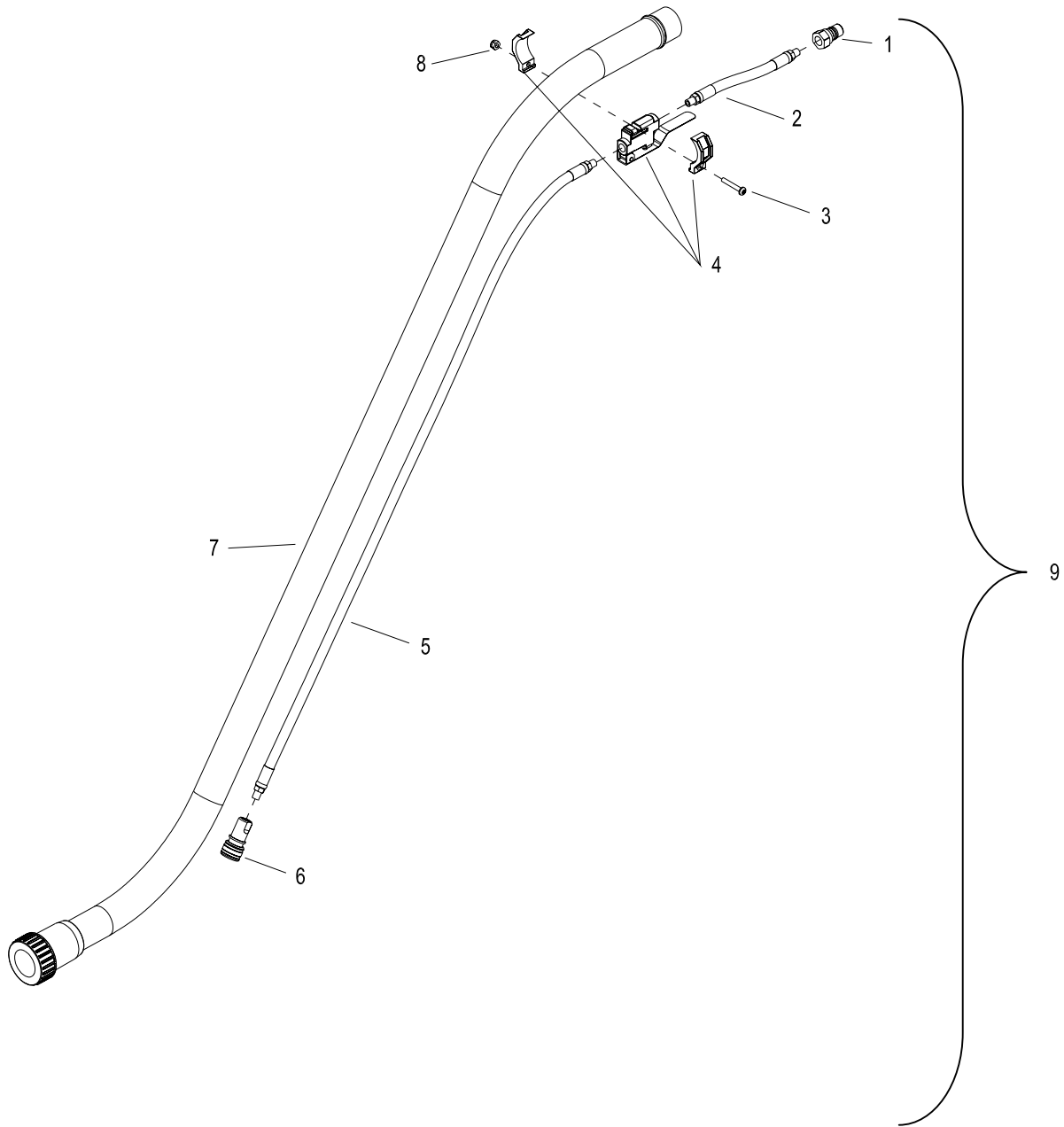




**TOOLS – GROUT CLEANER OPTION**

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	270-11A	1	NIPPLE, 1/8 FPT QD MALE BRASS		
2	56032	1	NIPPLE, 1/8 CLOSE		
3	11-800133	1	TEE, 1/8 BR		
4	39639	2	HOSE, 1/8 MPT X 1/4 FPT X 8L		
5	87015	4	WASHER, 9/16 ID X 1.06 OD SS		
6	44079	2	JET, 1/4 MEG 15015		
7	70088	4	SCR, 10-32 X 1/2 PPHMS SS NP		
8	02476	1	TOOL, GROUT CLEANER		
9	140653	2	BRUSH, FLOOR TOOL		
10	57090	4	NUT, 10-32 HEX NYLOCK SS		
11	140652	2	BRKT, BRUSH MOUNT		
12	70626	4	SCR, #10 X 3/4 PPHST HI-LO BLK		
13	47431	REF	KIT, GROUT CLEANER		

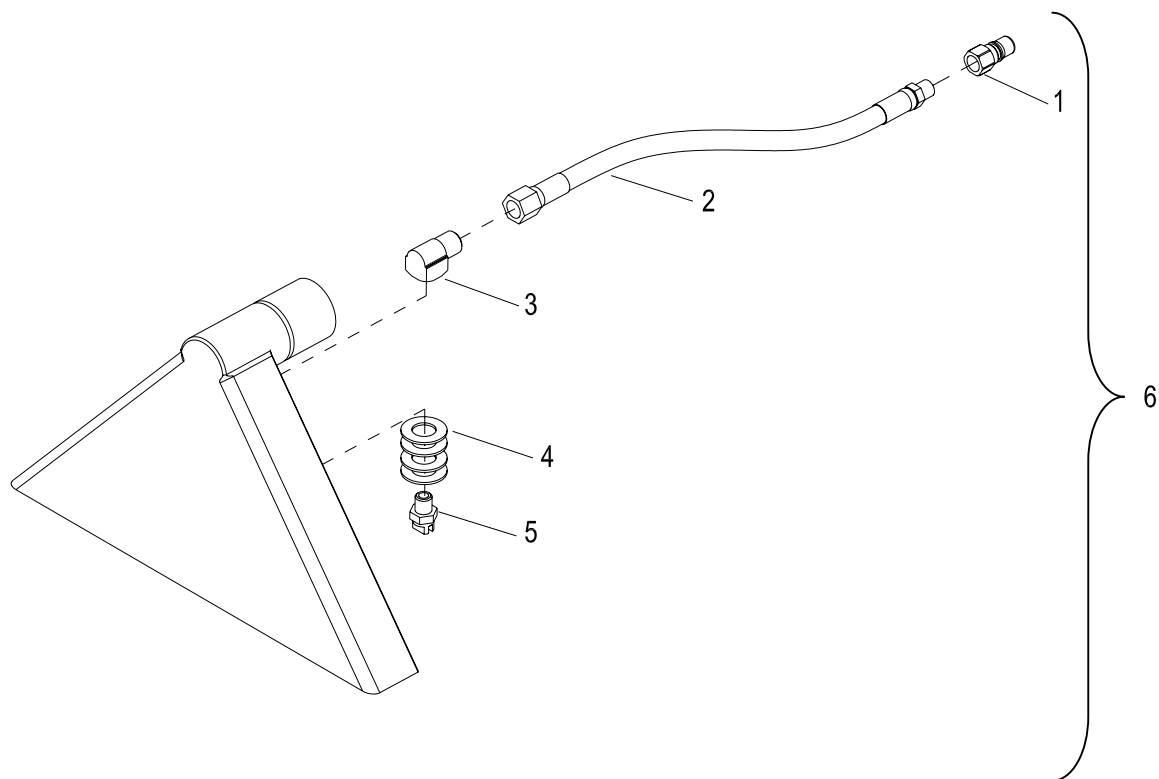
# TOOLS – HIGH PRESSURE WAND OPTION



## TOOLS – HIGH PRESSURE WAND OPTION

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	56012	1	NIPPLE, 1/4 FPT QD		
2	39641	1	HOSE, 1/8 MPT X 1/8 MPT X 6 L		
3	70195	1	SCR, 10-32 X 1.25 PPHMS SS		
4	84189	1	VALVE, 500 PSI W/ CLAMP		
5	39640	1	HOSE, 1/8 MPT X 1/8 MPT X 38L		
6	270-11	1	NIPPLE, 1/8 FPT QD FEM BRASS		
7	02480	1	TOOL, ALUMINUM WAND		
8	57090	1	NUT, 10-32 HEX NYLOCK SS		
9	47432	REF	KIT, HIGH PRESSURE WAND		

# TOOLS – CARPET TOOL OPTION



## TOOLS-CARPET TOOL OPTION

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	270-11A	1	NIPPLE, 1/8 FPT QD MALE BRASS		
2	39642	1	HOSE, 1/8 MPT X 1/4 FPT X 12L		
3	31016	1	ELBOW, 1/4 NPT STREET		
4	87015	4	WASHER, 9/16 ID X 1.06 OD SS		
5	44080	1	JET, 1/4 H-VV 11003		
6	47433	REF	KIT, CARPET TOOL		



## **LIMITED WARRANTY**

The foregoing constitutes *Century 400's* entire warranty and no other warranty, liability, contingency or responsibility, direct, indirect, consequential or in any way connected with the sale or operation of *Century 400* machines or chemical products, either as expressed or implied, will be honored.

## **CONDITIONS OF WARRANTY**

This warranty shall not extend to any *Century 400* product showing effects of misuse, abuse, disassembly, alteration, lack of proper maintenance, corrosive chemicals, improper voltage, accident damage, unauthorized repairs, use of other than genuine *Century 400* parts and material, fire, flood, freezing, normal wear or other cause beyond *Century 400's* control.

## **LIMITED LIFETIME HOUSING WARRANTY**

We, *Century 400*, hereby warranty our polyethylene machine housing for life to the original distributor against cracking, leaking or deterioration. The limited lifetime warranty is offered to the original owner only. Any transfer in ownership will void warranty. Additional terms and conditions of the limited lifetime warranty on the housing are as follows: Ninja, Sensei, Spot Plus, Hurricane and Turbomist will receive a full lifetime 100% replacement warranty. The RT-Tanks will receive a (1) year 100% replacement warranty; all other polyethylene housings will receive a full (5) year 100% replacement warranty, followed by 50% replacement value for life.

## **WARRANTY ON CHEMICAL USE**

Improper use of chemicals voids warranty and *Century 400's* liability. Defoamer is to be used in all *Century 400* machines. Dry cleaning solvents cannot be used in any *Century 400* machine. If used, fire and/or pump damage could result. White vinegar should be pumped through the machine (1) time a week to prevent mineral scaling.

## **PARTS WARRANTY**

Parts for *Century 400* equipment shall have a (1) year replacement warranty from the date of purchase for conditions considered normal wear, excluding any and all freight charges.

## **90 DAY UNLIMITED WARRANTY**

Any equipment showing defect of any type within the first 90 days from date of purchase will have an unlimited warranty which includes parts, freight, and 100% of labor costs. No labor or freight will be covered after 90 days from the date of purchase.

## **LIMITED 90 DAY WARRANTY**

The following parts, considered expendable under normal use, will be covered by warranty for 90 days from the date of purchase: quick disconnects, o-rings, seals, diaphragms, gaskets, grommets, thermostats, brass fittings, hoses, etc. **This warranty will include parts only.**

## **USE OF PARTS NOT APPROVED BY CENTURY 400 WILL VOID ALL WARRANTIES.**

**NOTICE:** *Failure to complete and return the warranty card within (10) days of receipt of machine by purchaser will void all warranties.*



Century 400, Inc., 325 S. Price Road, Chandler, AZ 85224 USA  
Phone: (800) 752-1777 Fax: (480) 786-5724