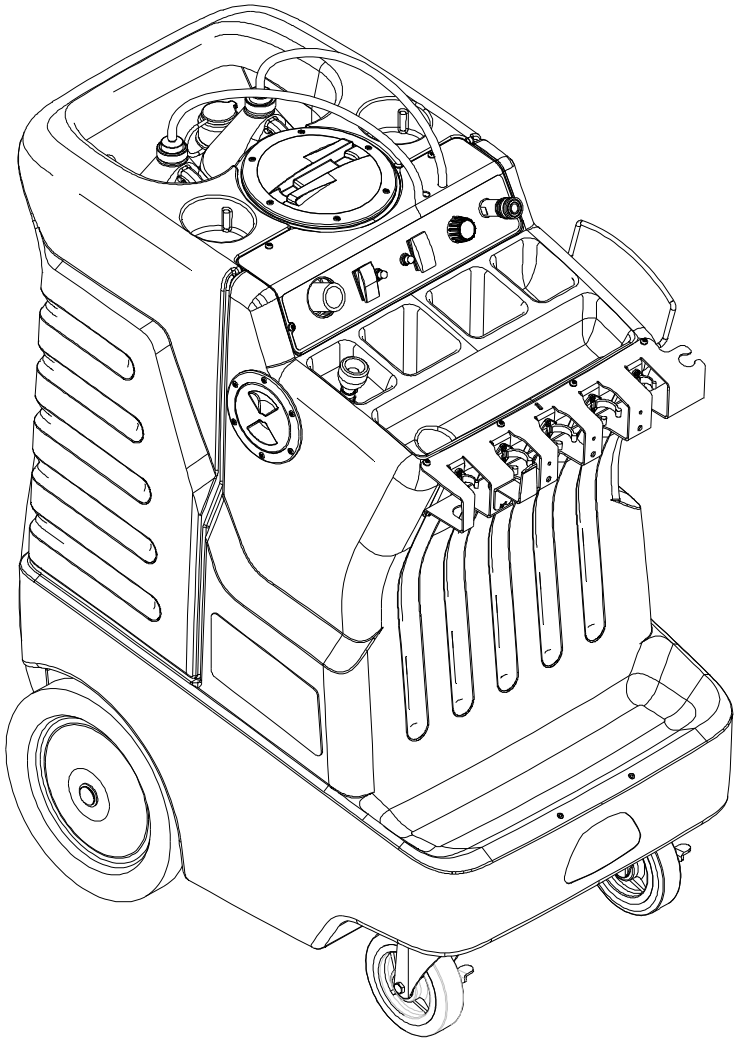
Multi-Functional Cleaning

English 02



Register
your product
www.kaercher.com/welcome

IPX5

86343680-R 01/10/22

Model: _____

Date of Purchase: _____

Serial Number: _____

Dealer: _____

Address: _____

Phone Number: _____

Sales Representative: _____

OVERVIEW

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.

Warranty Registration

Thank you for choosing our 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:

http://warranty.karcherna.com/warrantyregistration.aspx

MODELS: AP 100/50 M 1.007-080.0

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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: _____

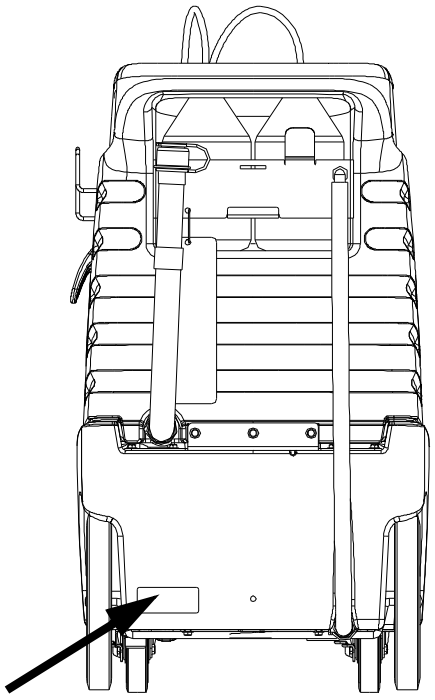
Dealer: _____

Address: _____

Phone Number: _____

Sales Representative: _____

The model and serial number of your machine is located on the back of the machine.



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:

- 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.
- **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.

THIS PRODUCT IS FOR COMMERCIAL USE ONLY.

ELECTRICAL

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.

⚠WARNING:

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.

GROUNDING INSTRUCTIONS

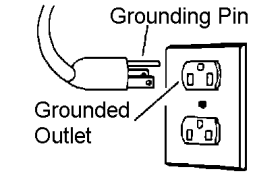


Fig. A

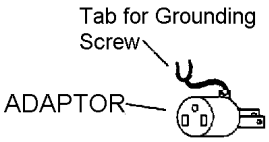


Fig. C

GROUNDING CONNECTION USING AN ADAPTOR

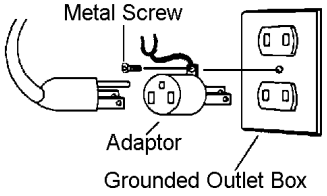
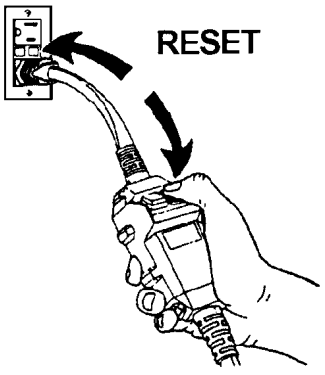


Fig. B

Note: Adaptors are not allowed in Canada.

GROUND-FAULT CIRCUIT-INTERRUPTER-PROTECTION

This pressure washer 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.



IMPORTANT SAFETY INSTRUCTIONS

When using this machine, basic precaution must always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE.

⚠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.

WARNING: Do not use the appliance within range of persons unless they wear protective clothing.

WARNING: High pressure jets can be dangerous it subject to misuse. The jets must not be directed at persons, live electrical equipment or the appliance itself.

Do not direct the jets against yourself or others in order to clean clothes or foot-wear.

Disconnect from electrical power supply before carrying out user maintenance.

High pressure cleaners shall not be used by children or untrained personnel.

To ensure appliance safety, use only original spare parts from manufacturer or approved by the manufacturer.

WARNING: High pressure hoses, fittings and couplings are important for the safety of the appliance. Use only hoses, fittings and couplings recommended by the manufacturer.

Do not use the appliance if the supply cord or important parts of the appliance are damaged, e.g. safety devices, high pressure hoses, trigger gun.

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.

Turn off all controls before unplugging.

Do not operate this machine near flammable fluids, dust or vapors. This machine is not suitable for picking up health endangering dust.

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

READ AND SAVE THESE INSTRUCTIONS

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.

⚠WARNING:

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:

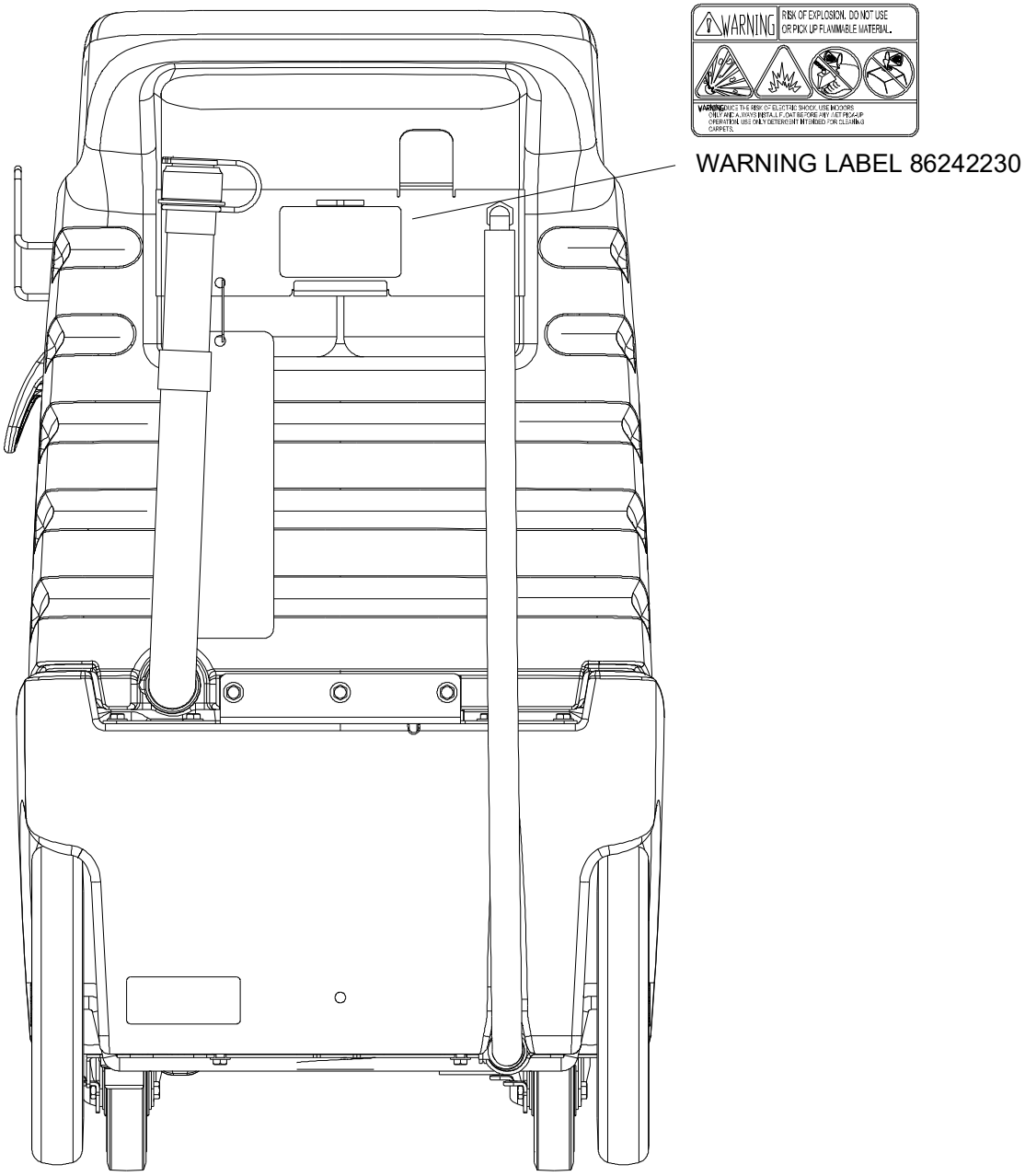
Unless Trained and Authorized.
Unless Operation Guide is Read and understood.
In Flammable or Explosive areas.
In areas with possible falling objects.

WHEN SERVICING MACHINE:
Avoid moving parts. Do not wear loose clothing; jackets, shirts, or sleeves when working on the machine.
Use approved replacement parts.

SAFETY LABEL LOCATION

The following WARNING LABEL(S) are found on your cleaning unit. These labels point out important Warnings and Cautions which should be followed at all times. Failure to follow warnings and cautions could result in fatality, personal injury to yourself and/or others, or property damage. Follow these instructions carefully! DO NOT remove these labels.

NOTE: If at any time the labels become illegible, promptly replace them.



WARNING LABEL 86242230

Technical Specifications

ITEM	DIMENSION/CAPACITY
Electrical	120V, 14A, 60HZ
Electric Pump Motor	1/2hp, 1750rpm
Solution Pump	700psi (48 bars), Axial plunger
Electric Vacuum Motor	2stage, 1.25hp (2.80m3/min.)
Waterlift	82 in. (208 cm)
Solution Capacity	29 gallons (111L)
Recovery Capacity	19 gallons (70L)
Wheels -Front (2) -Rear (2)	 6 in. dia. (15.24cm) X 1.5 12 in. dia. (30.48cm)X 1.75
Dimensions - Weight	205 lb. (93kg)
Dimensions - Length	36 in. (91.4cm)
Dimensions - Height	43 in. (109.2cm)
Dimensions - Width	24.75 in. (62.87cm)
Power Cable	50 ft. (15.2m) 14 gauge

SPECIAL NOTES:

The sound pressure level at 1m from the machine was measured to be 79 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 2.5m/s2. The measurement and related calculations were made in accordance with ISO 5349-1.

⚠CAUTION:

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

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.

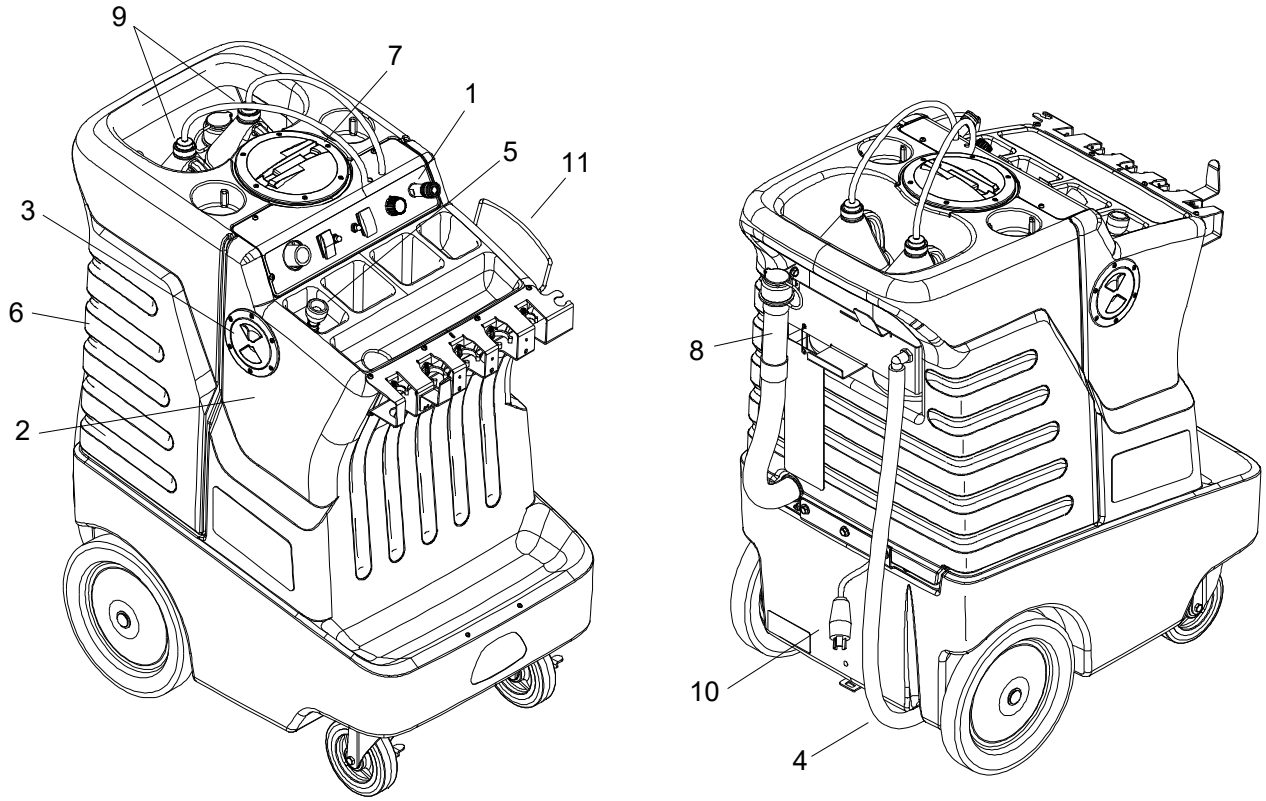
The function of the clean water system is to store clean water and deliver it to the available tools. The clean water system consists of the clean water tank and strainer. The clean water tank stores water until it is delivered to the tools. The strainer protects the pump from debris.

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.

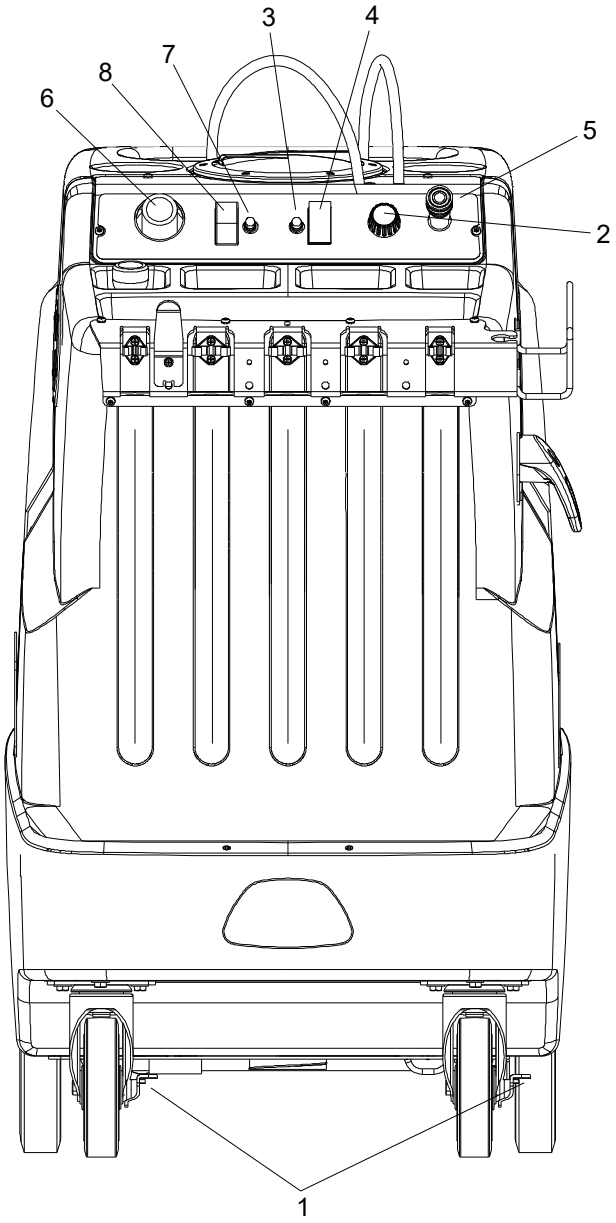
The function of pressure washer system is to clean fixtures and other surfaces. The pressure washer system consists of a pump, high-pressure hose and spray gun. The pump delivers cleaning solution to the tools. The high-pressure hose connects the pump to the spray gun.

Components



1. Control Panel
2. Solution Tank
3. Solution Tank Lid
4. Solution Tank Drain Hose
5. Solution Tank Fill Hose
6. Recovery Tank
7. Recovery Tank Lid
8. Recovery Tank Drain Hose
9. Chemical Siphon Caps
10. Electrical Cord
11. High Pressure Hose Storage

Controls



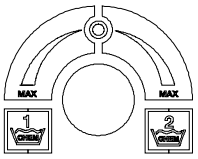
1. Caster Lock
2. Chemical Selector and Metering Valve
3. Pump Circuit Breaker
4. Pump Switch/Pump Chemical Switch
5. Solution Accessory Tool Hook-Up
6. Vacuum Accessory Tool Hook-Up
7. Vacuum Circuit Breaker
8. Vacuum Switch

1. CASTER LOCK

   Locks the wheels in place to keep the machine from moving.

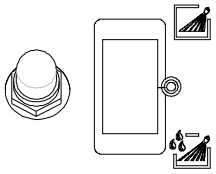
2. CHEMICAL SELECTOR AND METERING VALVE

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



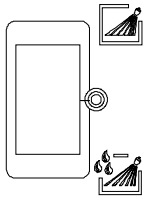
3. PUMP CIRCUIT BREAKER

   8 Amp. Protects the pump motor.



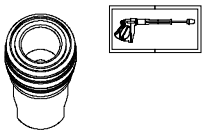
4. PUMP SWITCH

   High pressure no chemical, low pressure with chemical.



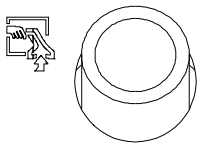
5. SOLUTION ACCESSORY TOOL HOOK-UP

   Used for various auxiliary-cleaning tools.



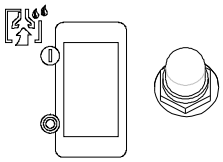
6. VACUUM ACCESSORY TOOL HOOK-UP

   To use accessory tool, remove hose from vac shoe and attach to accessory tool adaptor.



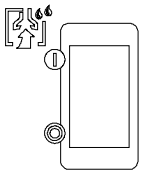
7. VACUUM CIRCUIT BREAKER

   10 Amp. Protects the vacuum motor.



8. VACUUM SWITCH

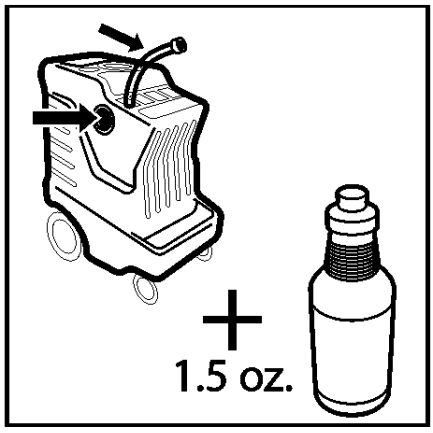
   Turns the vacuum motor On and Off.



Filling The Machine

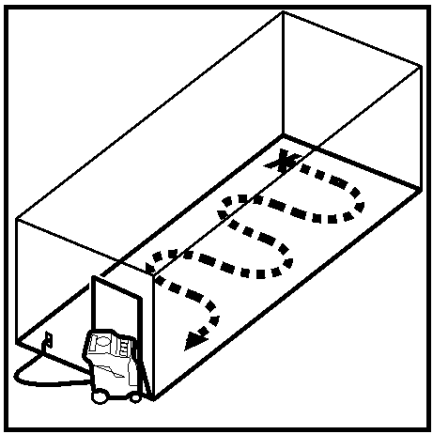
Do not put defoamer, solvents spotter or prespray chemicals in the solution tank.

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

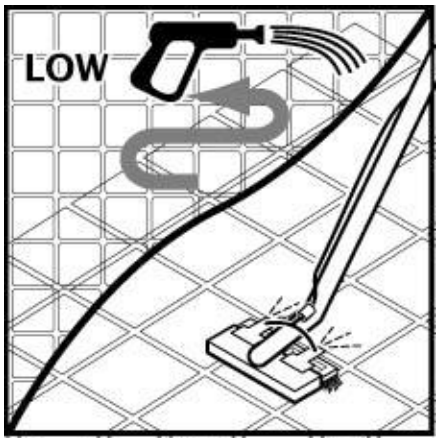


2. To fill Use fill hose or pour directly into solution tank. Use COLD WATER. Add 1 ½ oz of Compass-Rinse TM to each full solution tank.

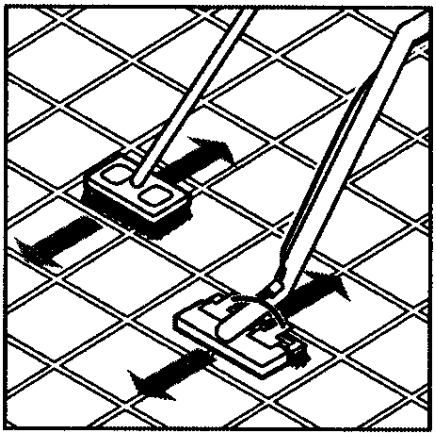
3. Attach the adapter cap and intake hose to the Chemical bottle. Refer to the Chemical Label for the desired dilution.



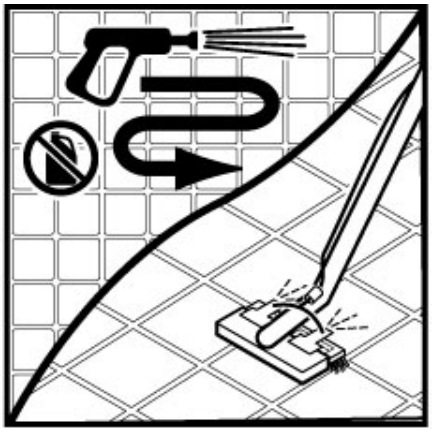
4. Position the machine in the door way, lock front casters. Start at furthest point in the room and work towards the door.



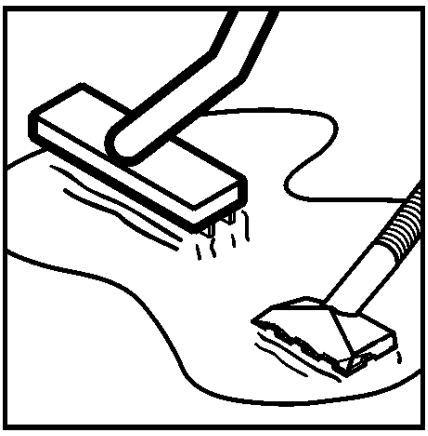
5. Always Spray chemical using low pressure



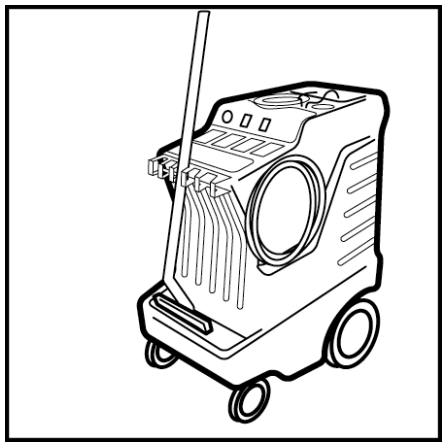
6. Use brush or grout tool for heavy soiled areas.



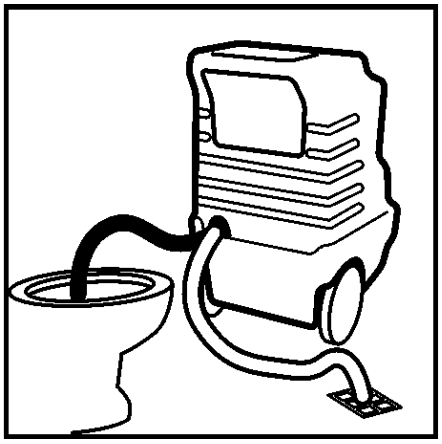
7. Turn Chemical off. Pressure clean by rinsing surfaces at high pressure.



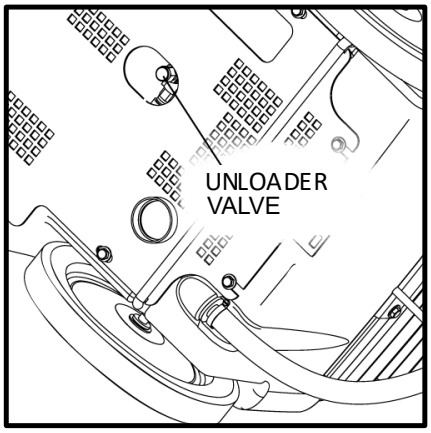
8. Use Squeegee to remove standing water.



9. Store and secure hoses and tools neatly.



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



11. From the factory your machine is set to spray at 600 psi (high pressure) and 200 psi (low pressure w/chemical injection). To lower pressure turn the unloader valve knob counter clockwise. The valve is accessed from below the machine through a hole in the bottom frame. Only turn the valve a maximum of three revolutions.

Note: Lowering the pressure in this way will reduce both of the high pressure and low pressure setting simultaneously.

Machine Operation

⚠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.

⚠WARNING:

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
- Lysol*
- Methyl Ethel Ketone (MEK)
- Perchorethylene (perc)
- Phenolics
- Trichlorethylene
- D-Limonene

*Product Trademark Names

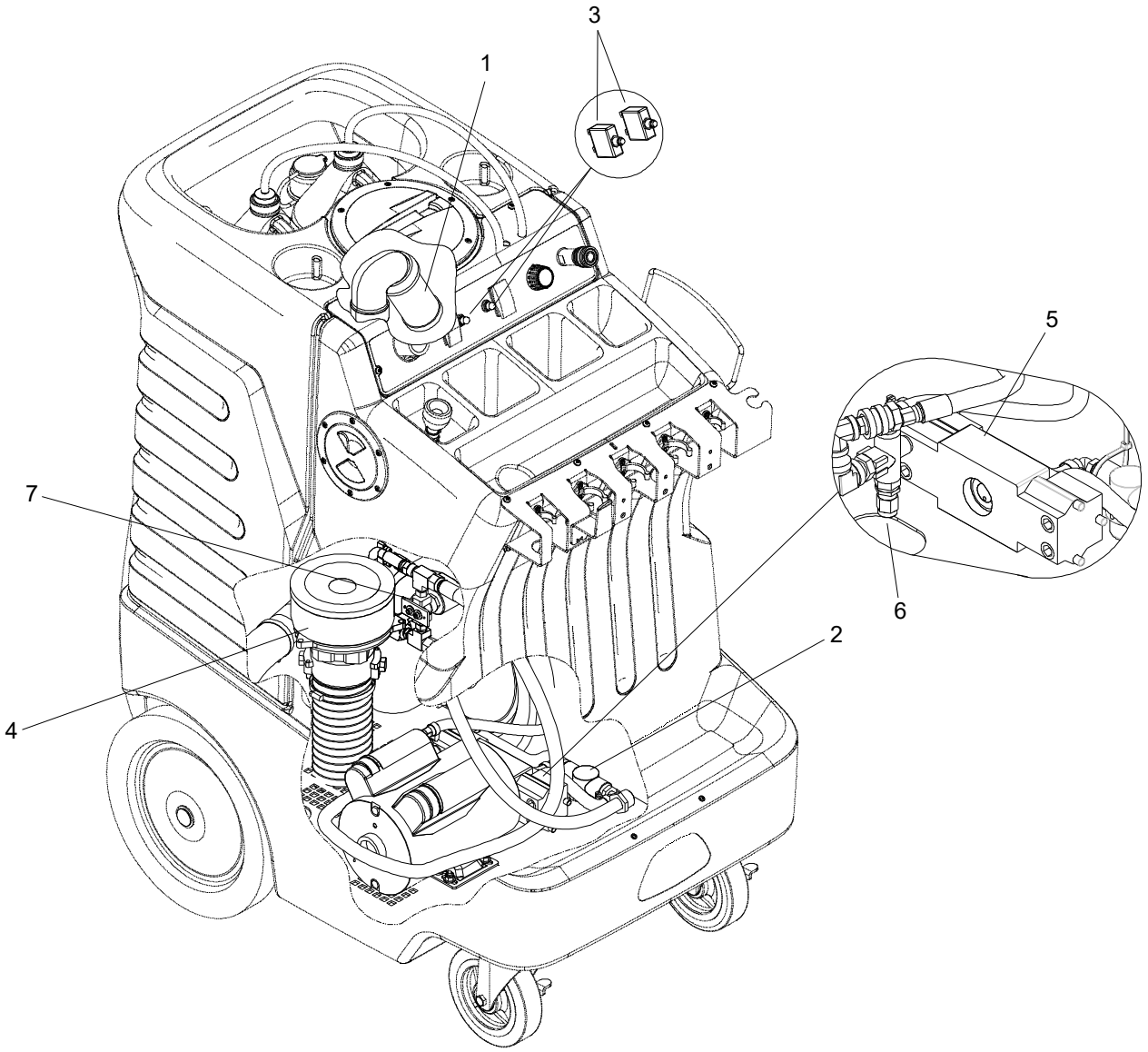
Only use chemicals approved for use with this machine. Use of non-compatible chemicals may cause machine damage and will not be covered under the warranty. Carefully read ingredients on manufacturer's label before using any product in this machine.

⚠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
7. Injector Assembly & Coil

Float Shut-off

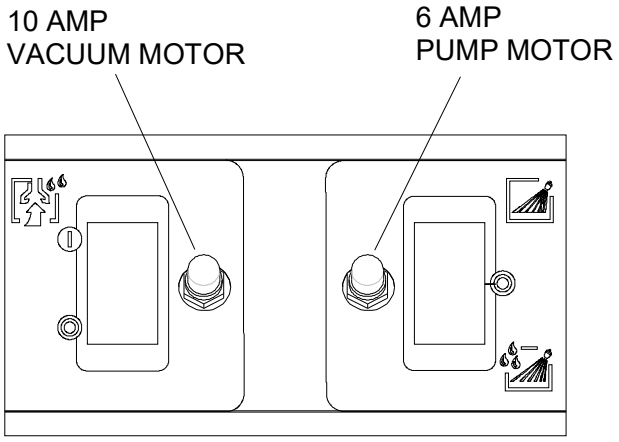
The float shut-off is located inside the recovery tank. The purpose of the float shut-off is to notify the user that the recovery tank is full. Remove daily and clean any debris for maximum airflow.

Strainer

The strainer is located on the left side between the front and rear wheels. The strainer protects the pump from debris. If there is little or no solution flow to the ground, check the stainer 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.

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.



120V

Vacuum Motor

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

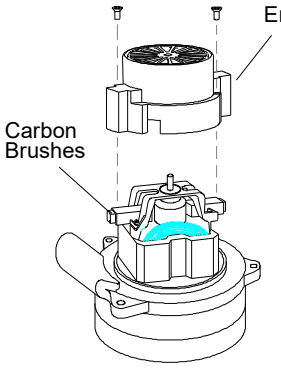
⚠WARNING:

ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

Vacuum Motor Replacement

1. Turn off all switches and unplug machine.
2. Remove recovery tank.
3. Remove the 5 screws holding the vacuum motor cover to the solution tank.
4. Locate the vacuum motor wires and disconnect at the connector.
5. Remove the vacuum motor.
6. Reverse process to install.

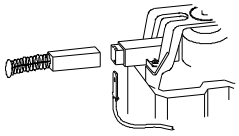
Vacuum Motor Carbon Brushes



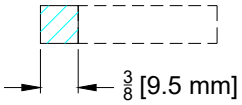
WARNING: The green ground wire must be attached for safe operation. See wiring diagram.

AVERTISSEMENT: Le fil à la terre vert doit être attaché pour un fonctionnement en toute sécurité. voir le schéma de câblage.

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.

Pump

⚠WARNING:

ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

Solution Pump Replacement

1. Turn off all switches and unplug machine.
2. Tilt machine back so bottom is exposed.
3. Remove the 6 screws that fasten the frame to the solution tank.
4. Remove the solution hoses from the fittings on the pump.
5. Reverse process to install.

Regulating Unloader

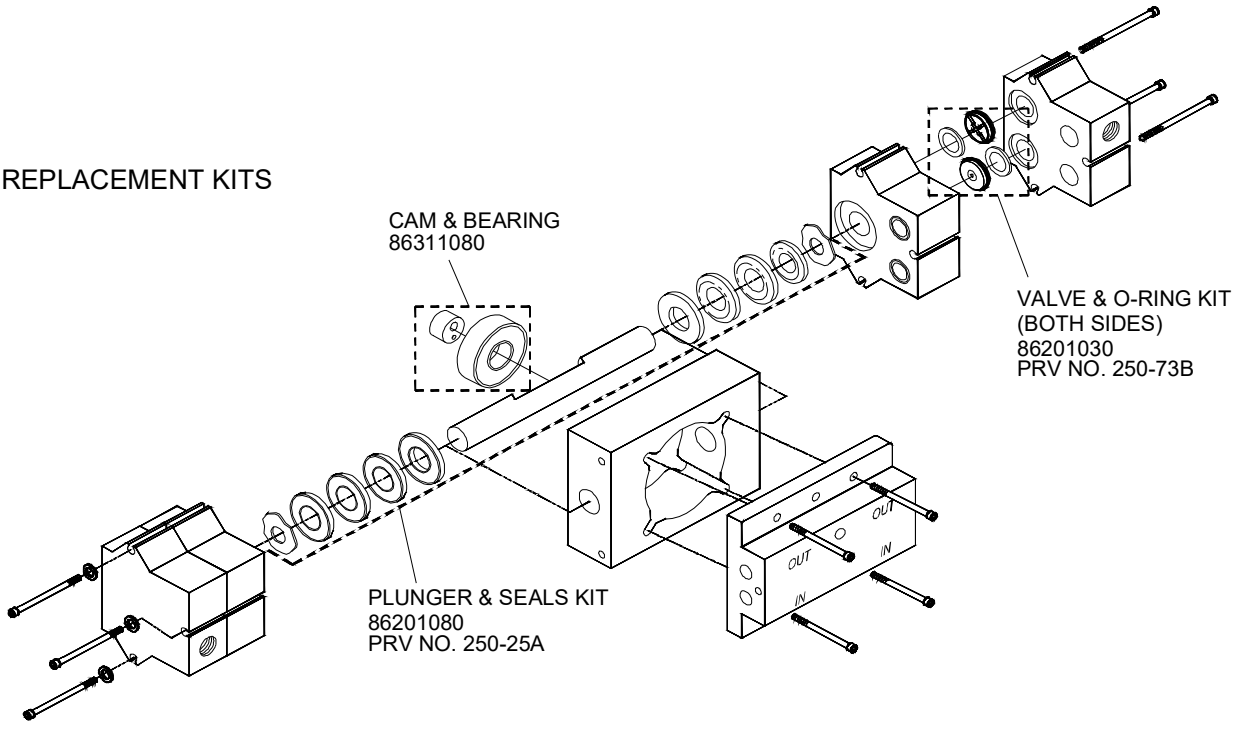
⚠WARNING:

ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

Unloader Replacement

1. Turn off all switches and unplug machine.
2. Tilt machine back so bottom is exposed.
3. Remove the 6 screws that fasten the frame to the solution tank.
4. Remove the solution hoses from the fittings on the pump.
5. Remove the unloader.
6. Reverse process to install.

PUMP REPLACEMENT KITS



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 pick-up including striper must be thoroughly cleaned before being allowed to dry.
6. Check spray jets for full spray pattern.

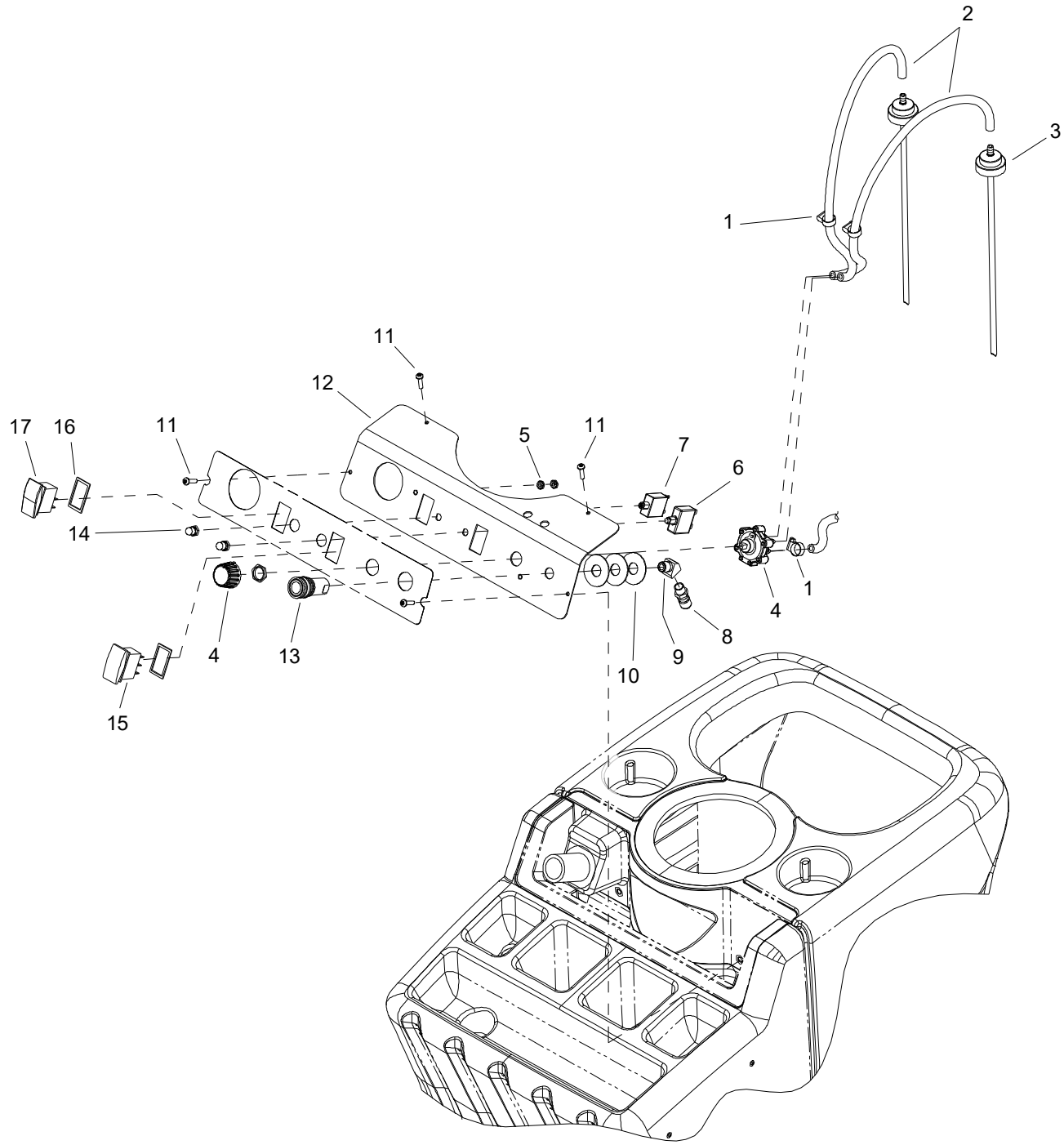
Service Schedule	DAILY	WEEKLY	QUARTERLY
Check machine for cord damage	*		
Check recovery dome and gasket for damage and cleanliness	*		
Check hoses for wear, blockages, or damage	*		
Check handles, switches, and knobs for damage	*		
Check vac motor intake filter and clean	*		
Run one gallon of water 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			*

Trouble Shooting

PROBLEM	CAUSE	SOLUTION
Loss of Power	Dead electrical circuit	Check building circuit breaker or fuse box
	Faulty power cord	Replace
	GFI breaker is tripped	Reset breaker on power cord
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 too large	Total jet opening for 100 psi should be .06 to .08
	Internal pump components wearing out	Replace, see pump kit components (pg 20)
	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 Super-lube. 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.

Notes:

PARTS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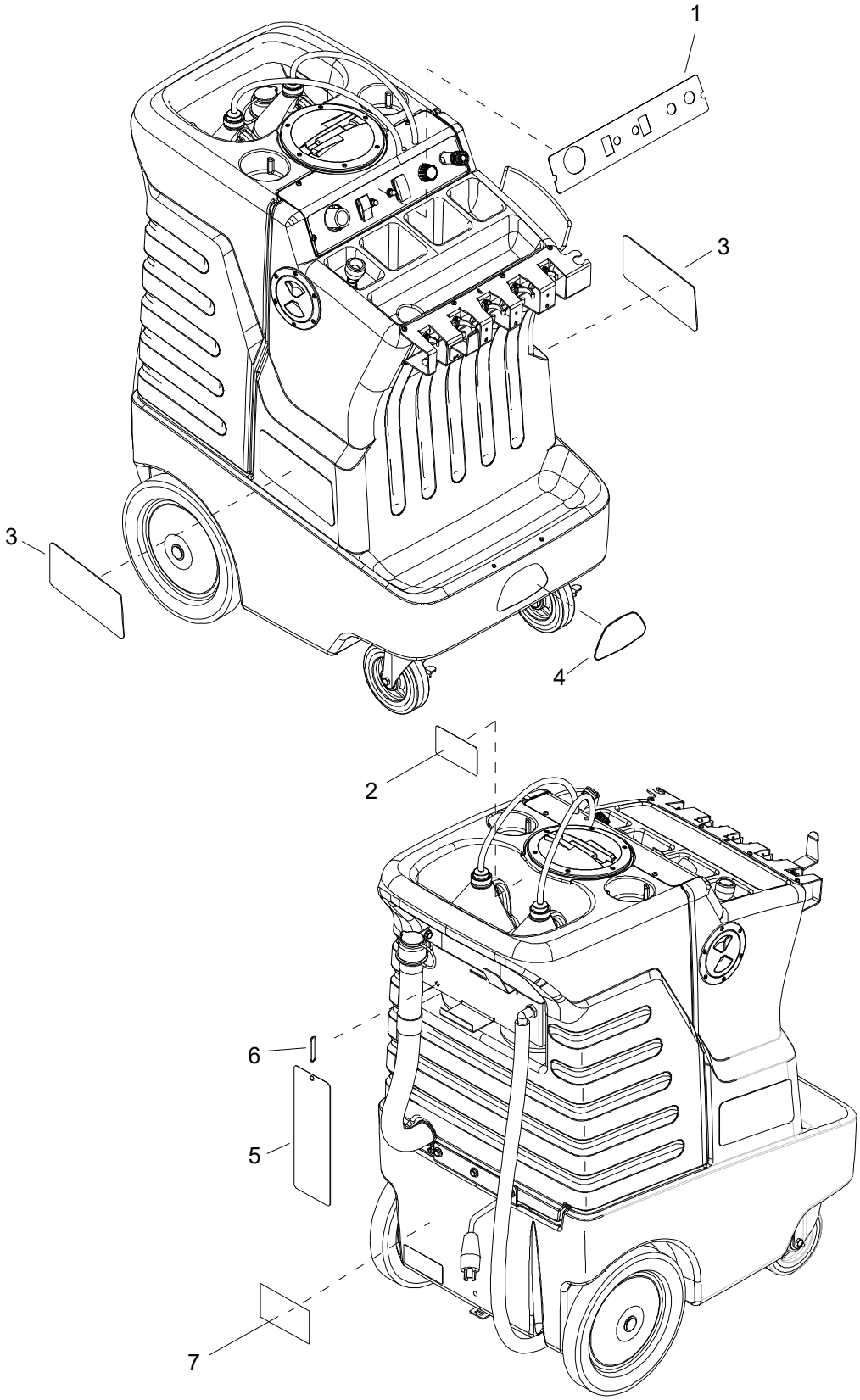
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86233090	20016	3	CLAMP, 1/4 ID HOSE		
2	86282280	39634	2	HOSE, 1/4 ID NYLOCBRAID X 23"		
3	86402500	270699	2	CAP CHEM FEED W/DIP TUBE, YLW		
4	86258930	84187	1	VALVE, CHEMICAL METERING		
5	86005700	57104	2	NUT, 10-32 W/STAR WASHER PLTD		
6	86001940	14635	1	BREAKER, 10A CIRUIT		
7	86215670	140839	1	BREAKER, 8A VDE CIRCUIT		
8	86302400	-	1	QD, NIPPLE, FOSTER 25 MPB		
9	86197390	31021	1	ELBOW, 1/4 NPT 45D STREET		
10	86279560	87178	3	WASHER, 5/8 ID X 1.70 D 0.05T		
11	86276290	70626	4	SCR, #10 X 3/4 PPHST HI-LO BLK		
12	86297370	-	1	PANEL, SWITCH CONTROL		
13	86002450	22015	1	COUPLER, 1/4 QD		
14	86002010	14942	2	BOOT, 3/8 CIRCUIT BREAKER		
15	86007200	72162	1	SWITCH, DPDT3-POSITION ROCKER		
16	86238030	36235	2	GASKET, SWITCH CARLING		
17	86007140	72130	1	SWITCH, SPST 2-POSITION ROCKER		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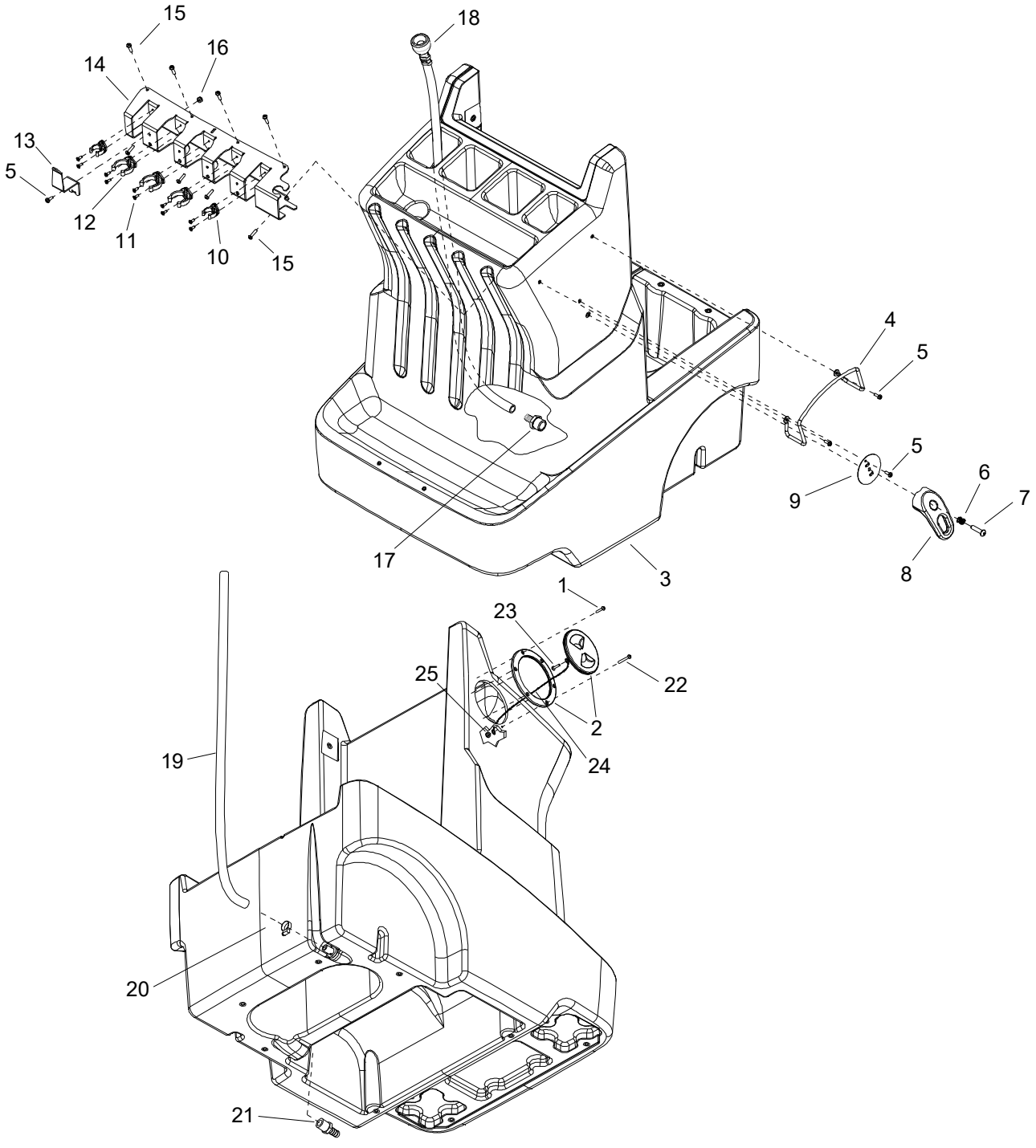
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86396600	-	1	LABEL, COMPASS, CONTROL		
2	86242230	500009	1	LABEL, WARNING EXPLOSION HAZ'D		
3	86332740	-	2	LABEL, KARCHER PROFESSIONAL		
4	86335160	-	1	LABEL, KARCHER FRONT		
5	86305190	-	1	INSTRUCTION CARD		
6	86002870	27417	1	CORD, 1/8" X 12"		
7	87581700	-	1	LABEL QR CODE COMPASS AP 100/50 M-CA		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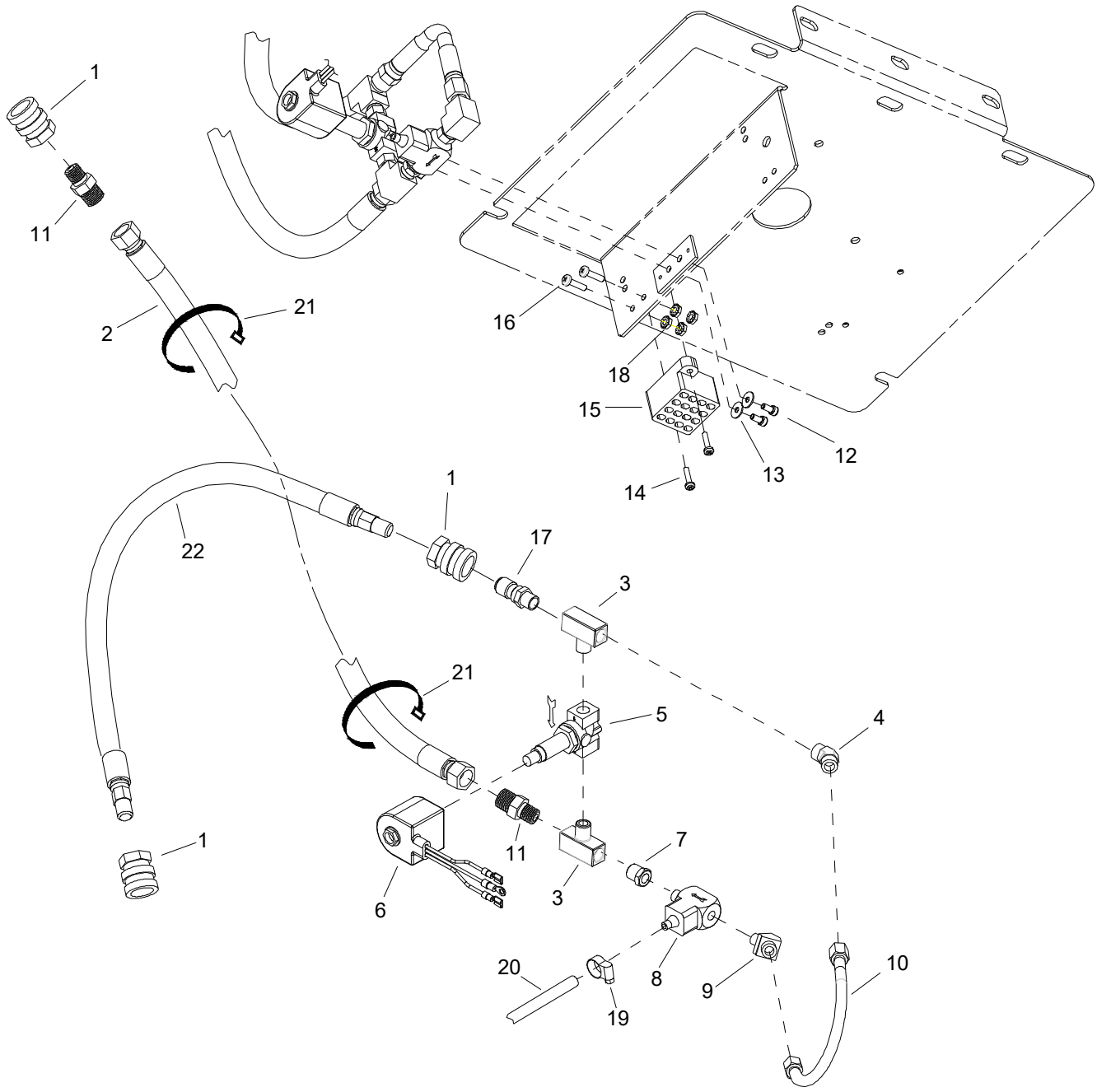
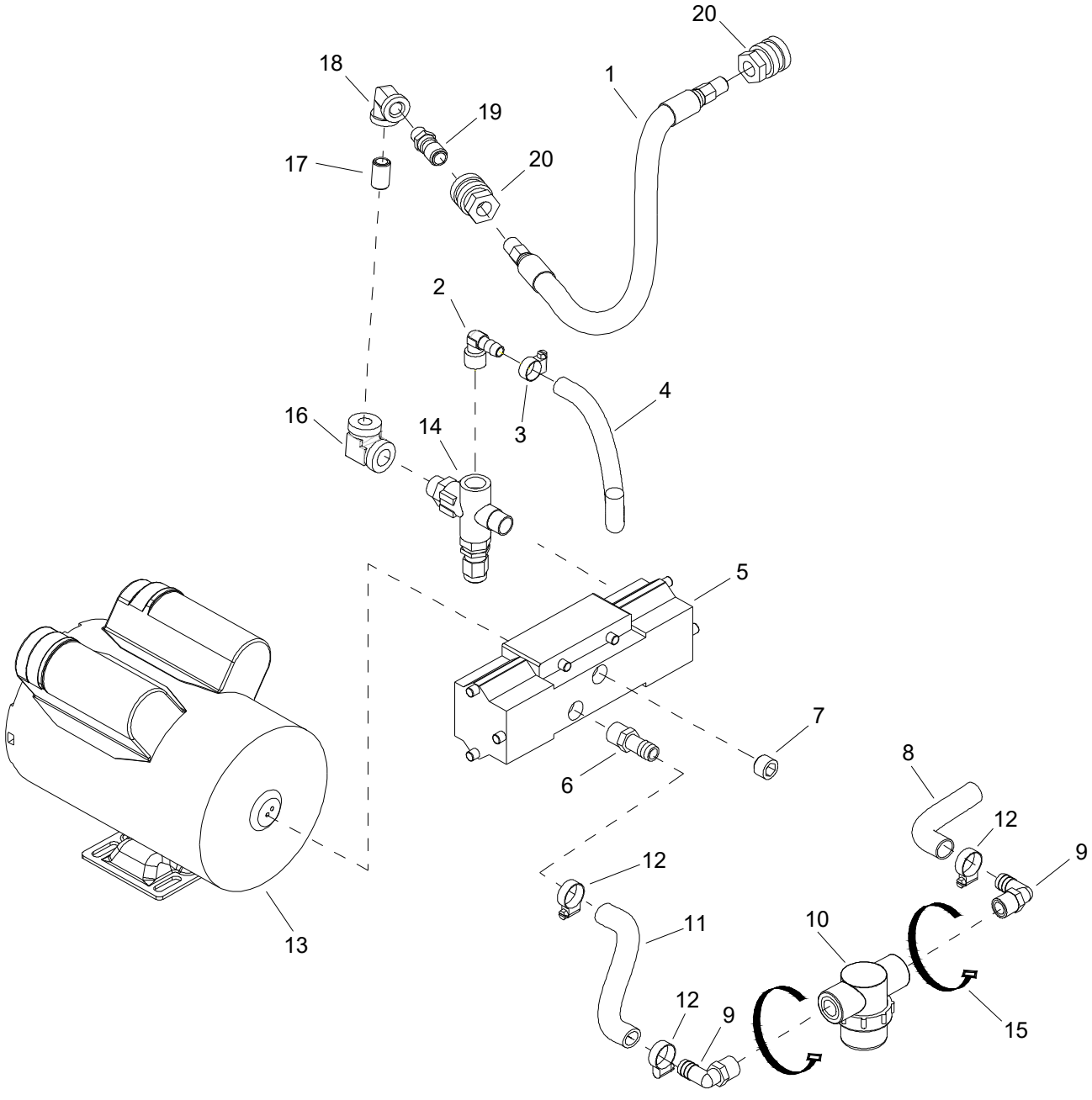
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86275800	70546	5	SCR, 8 X 3/4 PFHT/S BLK ZINC		
2	86334470	-	1	DECK, PLATE ASM, 4", YLW		
3	87595990	-	1	TANK SOLUTION CMPS2K		
4	86239680	41476	1	HOOK, HOSE STORAGE		
5	86006950	70532	4	SCR, 10-32 X 1/2 PPHMS BLK NP		
6	86224730	73939	1	SPRING, COMP, 12MM OD X 12.7MM		
7	86276650	70707	1	SCR, 5/16-18 X 1.5 BSHCS SS		
8	86335610	-	1	HOOK, UPPER, CORD YLW		
9	86301030	-	1	PLATE, DETENT, CORD HOOK		
10	86302130	-	2	CLIP, C 5/8, PLASTIC		
11	86302090	-	10	SCR, 8-32 X 7/16 PFHTC "F" BLK		
12	86002990	27744	3	CLIP, 1 1/2" PLASTIC		
13	86301990	-	1	HOSE HOOK, HLDER, TOOL		
14	86301980	-	1	HOLDER, TOOL		
15	86276290	70626	8	SCR, #10 X 3/4 PPHST HI-LO BLK		
16	86271680	57236	1	NUT, 10-32 HEX NYLOCK BLK		
17	86197920	40023	1	HOSEBARB, 1/2MPT X 3/8 NYL DL		
18	86260690	02130	1	HOSE ASM, FCT ADPTR X 60" NBRD		
19	86302590	-	1	HOSE, CLEAR, 3/4 ID X 30"		
20	86233300	20101	1	CLAMP, 1.25" WORM GEAR SS		
21	86197910	40022	1	HOSEBARB, 1/2MPT X 1/2 POLY DL		
22	86339990	-	1	SCR, 8-32 X 1.0, FHMS, PHLPS, SS, BLK		
23	86277560	70866	1	SCR,#6X1/2 SHT MTL SS		
24	86232790	27912	1	CHAIN, ASM, #10SS BD X 8"		
25	86272020	57313	1	NUT, 8-32 HEX THIN NYLOCK SS		

Solution Injector Assembly

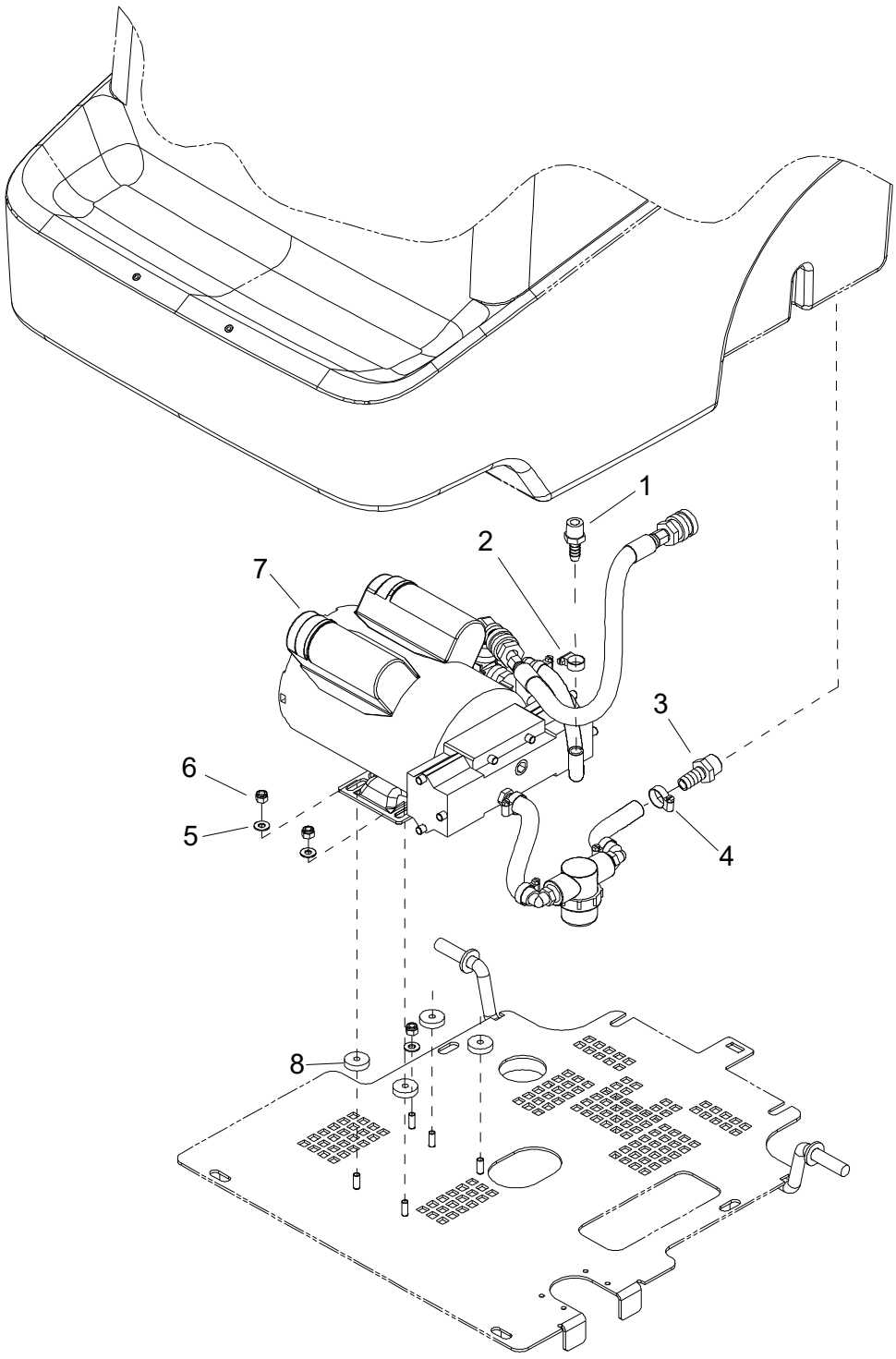


REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86302410	-	3	QD, COUPLER, FOSTER 25FS		
2	86302570	-	1	HOSE, PULSE, 3/8F X 3/8F X 45"		
3	86197730	78024	2	TEE, 1/4 BRANCH		
4	86180460	12-800356	1	ELL,1/4PX1/4T 45DEG BR		
5	86303760	-	1	VALVE, SOLENOID, 1/4F 700PSI		
6	86303850	-	1	COIL, 115V, SOLENOID		
7	86197300	14079	1	BUSHING, 1/8 FPT X 1/4 MPT HEX		
8	86303770	-	1	INJECTOR KIT, DEMA, 200-3C		
9	86180420	12-800261	1	ELL, 1/8P X 1/4T 45 DEG.		
10	86327120	-	1	HOSE, 3/16 X 8 (1/4FT BS) MET		
11	86188130	11-800151	2	NIPPLE, 3/8M X 1/4M		
12	86006630	70171	2	SCR, 10-24 X 1/2 HHMS SS		
13	86010650	87018	2	WASHER, #10 X 9/16 OD		
14	86006490	70013	2	SCR, 8-32 X 3/4 PPHMS		
15	86305200	-	1	TERMINAL BLOCK, 115/230V		
16	86273980	70066	2	SCR, 10-32 X 3/4 PPHMS		
17	86302400	-	1	QD, NIPPLE, FOSTER 25MPB		
18	86005700	57104	4	NUT, 10-32 W/STAR WASHER PLTD		
19	86233090	20016	1	CLAMP, 1/4 ID HOSE		
20	86295830	-	1	HOSE, 1/4ID NYLOBRAID X 41"		
21	86264940	27051	6	CABLE TIE, 11.38" UL/CSA		
22	86302790	-	1	HOSE, PULSE, 1/4 MPLT X 1/4 MPLT X 30"		

Solution Pump Assembly



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86302790	-	1	HOSE, PULSE, 1/4MSWL X 3/8NPT X 30"		
2	86197610	40034	1	HOSEBARB, 3/8MPTX3/8 90D DL		
3	86233090	20016	1	CLAMP, 1/4 ID HOSE		
4	86302780	-	1	HOSE, BRAIDED, 3/8ID X 16" L		
5	86302820	-	1	PUMP, PUMPTEC, 700PSI		
6	86197540	40013	1	HOSEBARB, 3/8MPT X 1/2 DL		
7	86190520	11-800224	4	PLUG, 3/8 SOCHD BR		
8	86302770	-	1	HOSE, BRAIDED, 1/2 ID X 14" L		
9	86197940	40027	2	HOSEBARB, 3/8MPTX1/2 90D DL		
10	86305460	-	1	STRAINER, 3/8 FPT 80 MESH		
11	86302760	-	1	HOSE, BRAIDED, 1/2 ID X 4-3/4" L		
12	86233150	20042	3	CLAMP, 3/8 HOSE (D-SLOT)		
13	86302720	-	1	MOTOR, 700PSI, 115/230 VOLT		
14	86302730	-	1	UNLOADER, 800PSI, PUMPTEC		
15	86264940	27051	5	CABLE TIE, 11.38" UL/CSA		
16	86197380	31018	1	ELBOW, 3/8FPT X 1/4FPT		
17	86005590	56014	1	NIPPLE, 1/4 CLOSE		
18	86197370	31017	1	ELBOW, 1/4FPT X 1/4FPT		
19	86302400	-	1	QD, NIPPLE, FOSTER 25MPB		
20	86302410	-	2	QD, COUPLER, FOSTER 25FS		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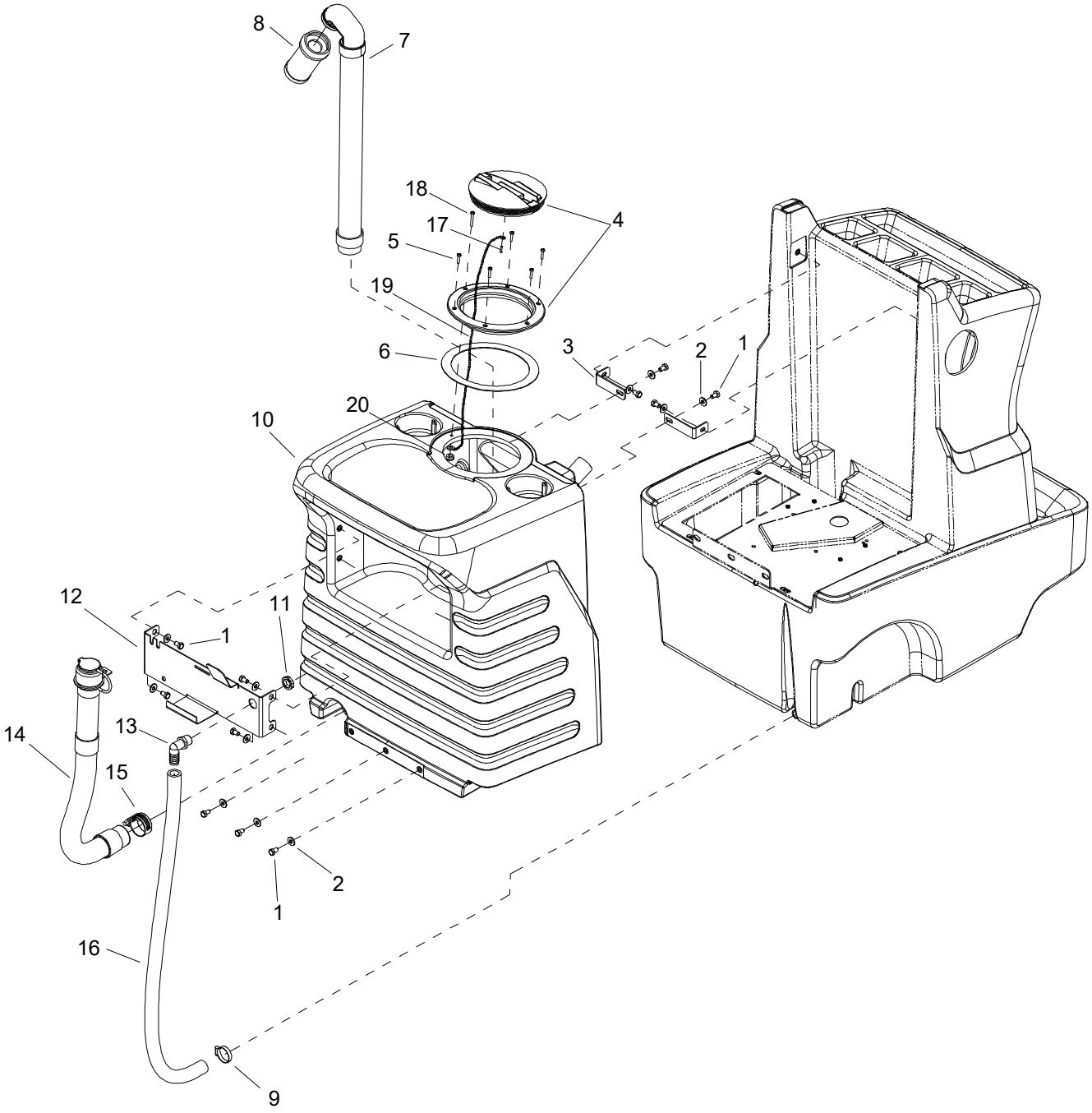
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86240430	40083	1	HOSEBARB, 3/8 MPT X 3/8 NYLON		
2	86233090	20016	1	CLAMP, 1/4 ID HOSE		
3	86197910	40022	1	HOSEBARB, 1/2MPT X 1/2 POLY DL		
4	86233150	20042	1	CLAMP, 3/8 HOSE (D-SLOT)		
5	86010630	87013	5	WASHER, 1/4 ID X 5/8 OD SS		
6	86005810	57245	5	NUT, 1/4-20 HEX NYLOCK SS		
7	86302430	-	1	PUMP ASM, 700 PSI 115V		COMPLETE
8	86423350	-	4	WASHER, 1/4" X 1" X 1/4", FLT NPRN BLK		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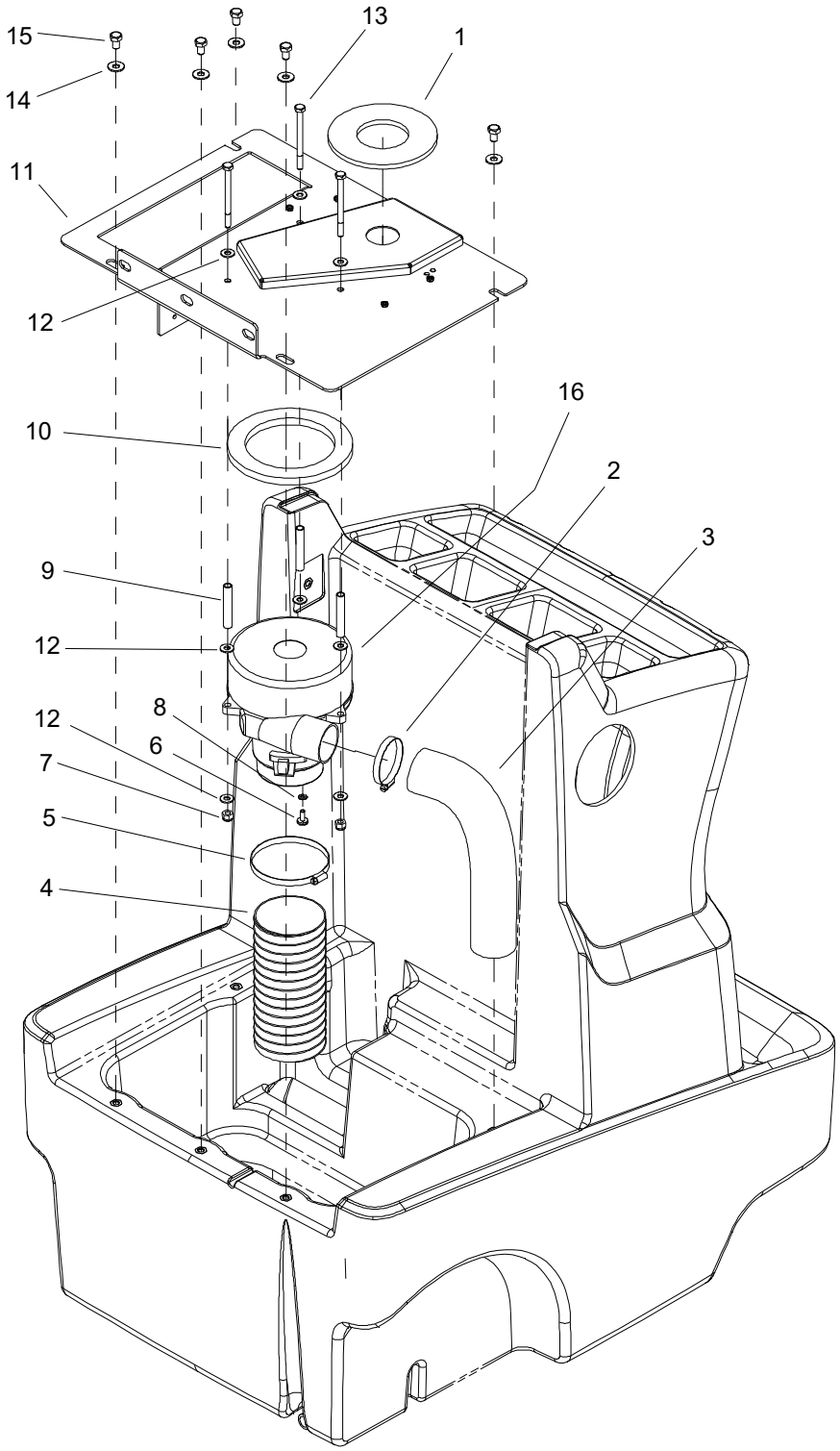
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86277040	70781	11	SCR, 5/16-18 X 1/2 HHCS SS NP		
2	86010670	87029	11	WASHER, 5/16 FLAT SS		
3	86070510	140659	1	BRKT, TANK MOUNT		
4	86334490	-	1	DECK PLATE ASM, 6", YLW		
5	86275800	70546	5	SCR, 8 X 3/4 PFHT/S BLK ZINC		
6	86004000	35255	1	GASKET, TANK LID		
7	86033250	66402	1	PIPE ASM, VACUUM STACK		
8	86199840	090-12A	1	FLOAT SCREEN CAGE ASSY (SLIP)		
9	86233110	20018	1	CLAMP, 1.0" WORM GEAR		
10	87596000	-	1	TANK RECOVERY CMPS2K		
11	86271850	57287	1	NUT, 1/2 NPT PLASTIC		
12	86296560	-	1	BRACKET, UTILITY MOUNT, 2.0		
13	86240790	82358	1	HOSEBARB, 1/2 MPT X 3/4 90D		
14	86334700	-	1	DRAIN HOSE, CMPS, YLW		
15	86177050	03-000176	1	CLAMP, HOSE #20		
16	86302590	-	1	HOSE, CLEAR, 3/4ID X 34"		
17	86277560	70866	1	SCR, #6 X 1/2 SHT MTL SS		
18	86339990	-	1	SCR, 8-32 X 1.0, FHMS, PHLPS, SS, BLK		
19	86232790	27912	1	CHAIN, ASM, #10SS BD X 8"		
20	86272020	57313	1	NUT, 8-32 HEX THIN NYLOCK SS		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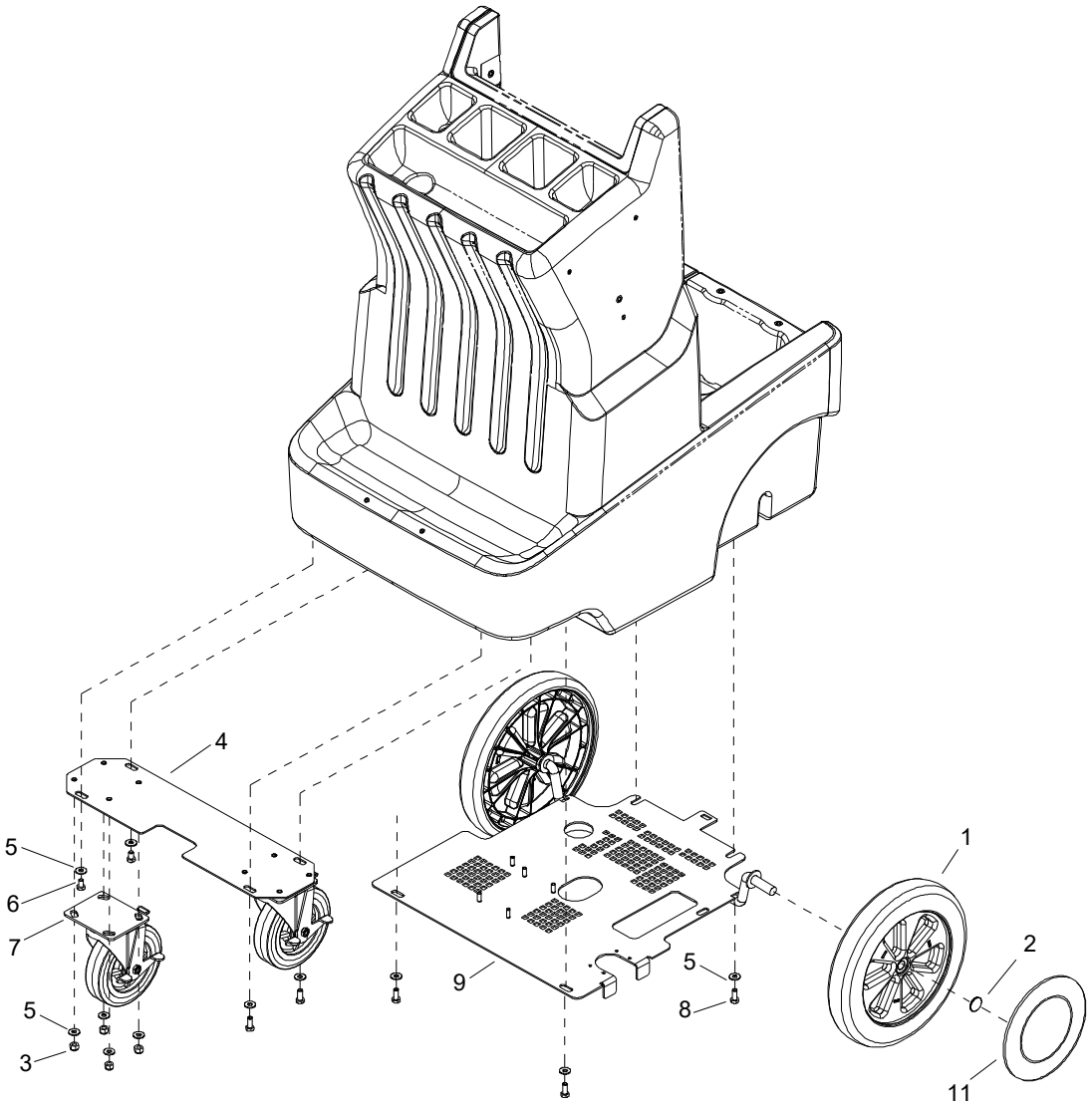
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86237870	35270	1	GASKET, 5.0 OD X 2.38 ID X .25T		
2	86002380	20046	1	CLAMP, 2.25" WORM GEAR		
3	86281180	39298	1	HOSE, 2.0 VAC EXHAUST X 17"		
4	86240240	39697	1	HOSE, 3.15 ID X 7.0L VENT		
5	86233260	20092	1	CLAMP, 3.5" WORM GEAR		
6	86274980	70335	1	SCR, 10-32 X 1/2 PHTR GRN/GRND		
7	86005810	57245	3	NUT, 1/4-20 HEX NYLOCK SS		
8	86010640	87016	1	WASHER, #10 LOCK EXT STAR SS		
9	86201970	065-92	3	VAC SPACER 2 1/4 (2 STAGE)		
10	86003760	35166	1	GASKET, VAC MTR		
11	86296140	-	1	COVER, VAC MOTOR		
12	86010630	87013	9	WASHER, 1/4 ID X 5/8 OD SS		
13	86007010	70663	3	SCR, 1/4-20 X 3 1/4 HHCS PLT		
14	86010670	87029	5	WASHER, 5/16 FLAT SS		
15	86277040	70781	5	SCR, 5/16-18 X 1/2 HHCS SS NP		
16	86303840	-	1	VAC MTR, 120V 5.7 2 ST TD		
-	86135320	140687	-	BRUSH SET, 120V VAC		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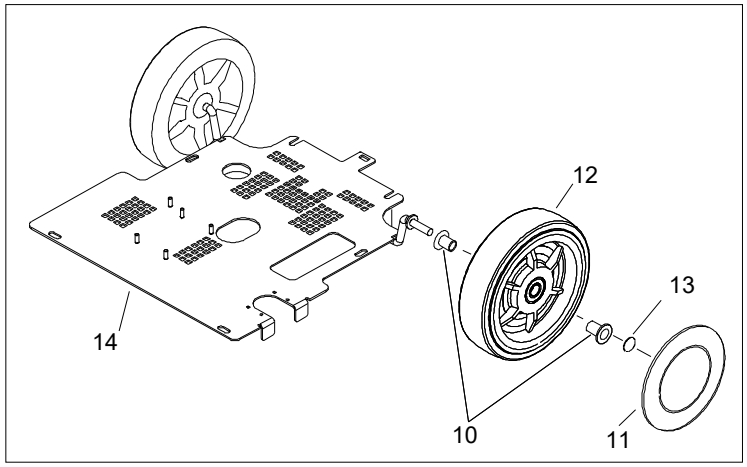
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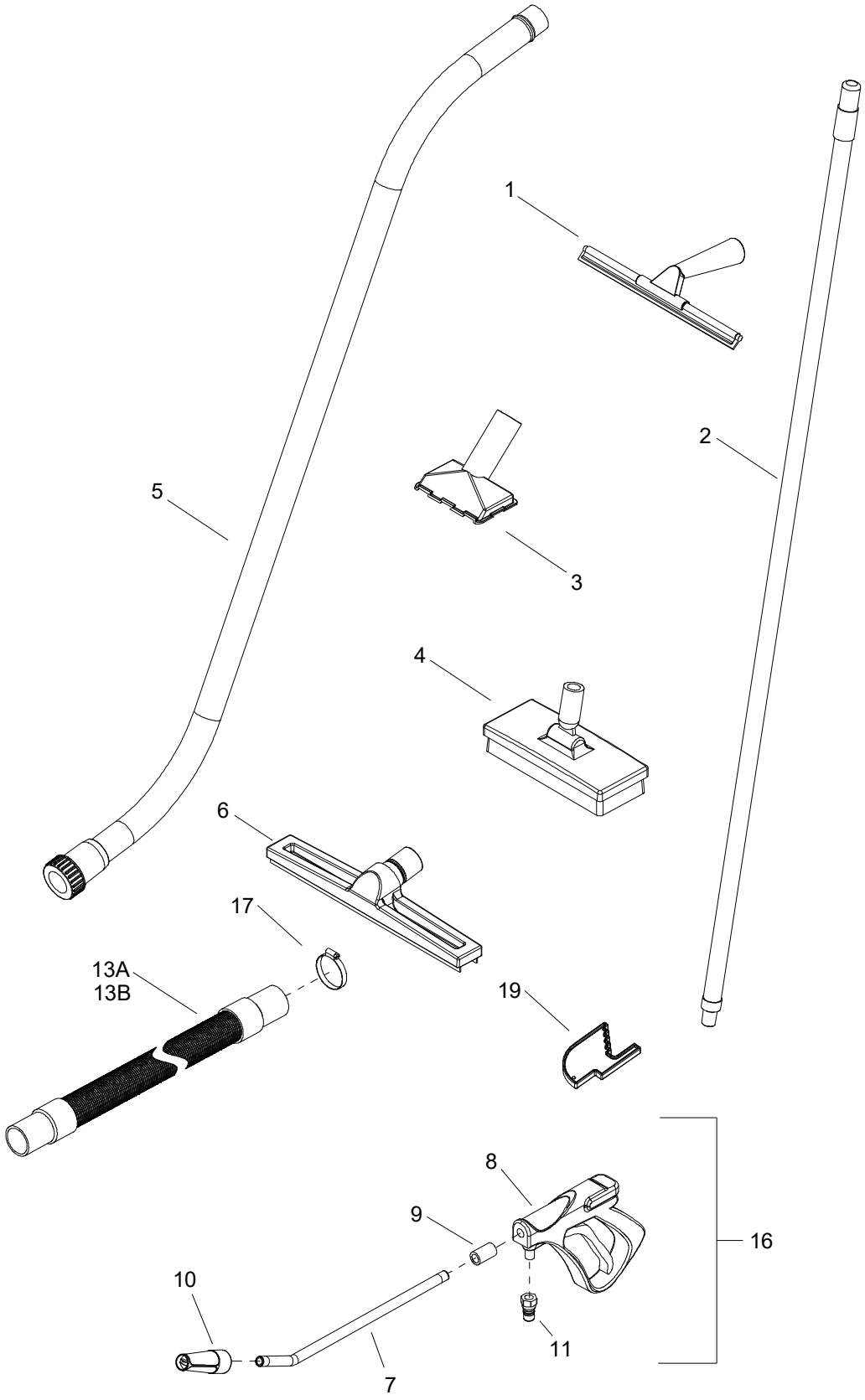
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86309790	-	2	WHEEL, 12" X 2.25"	(1*)	
2	86001660	-	2	HUBCAP, 5/8" SHAFT	(1*)	
3	86270830	57023	8	NUT, 5/16-18 HEX NYLOCK SS		
4	86078800	620001	1	PLATE MOUNT CASTER		
5	86010670	87029	16	WASHER, 5/16 FLAT SS		
6	86276780	70728	4	SCR, 5/16-18 X 3/4 HHCS SS		
7	86334680	-	2	CASTER, 6" DIA. 4.5 SWVL, YLW		
8	86277040	70781	4	SCR, 5/16-18X1/2 HHCS SS NP		
9	86413130	-	1	FRAME, PUMP/WHEEL MNT, CMPS2	(1*)	
10	86323860	-	4	BUSHING FLANGED .501D X .630D		
11	86300070	-	2	HUBCAP 9.75" WHEEL, BLACK		
12	86323840	-	2	WHEEL, 12"		
13	86271380	57196	2	NUT, 1/2 PUSH-IN DOME CAP		
14	86296130	-	1	FRAME, PUMP/WHEEL MNT		

* SEE SERIAL NUMBER PAGE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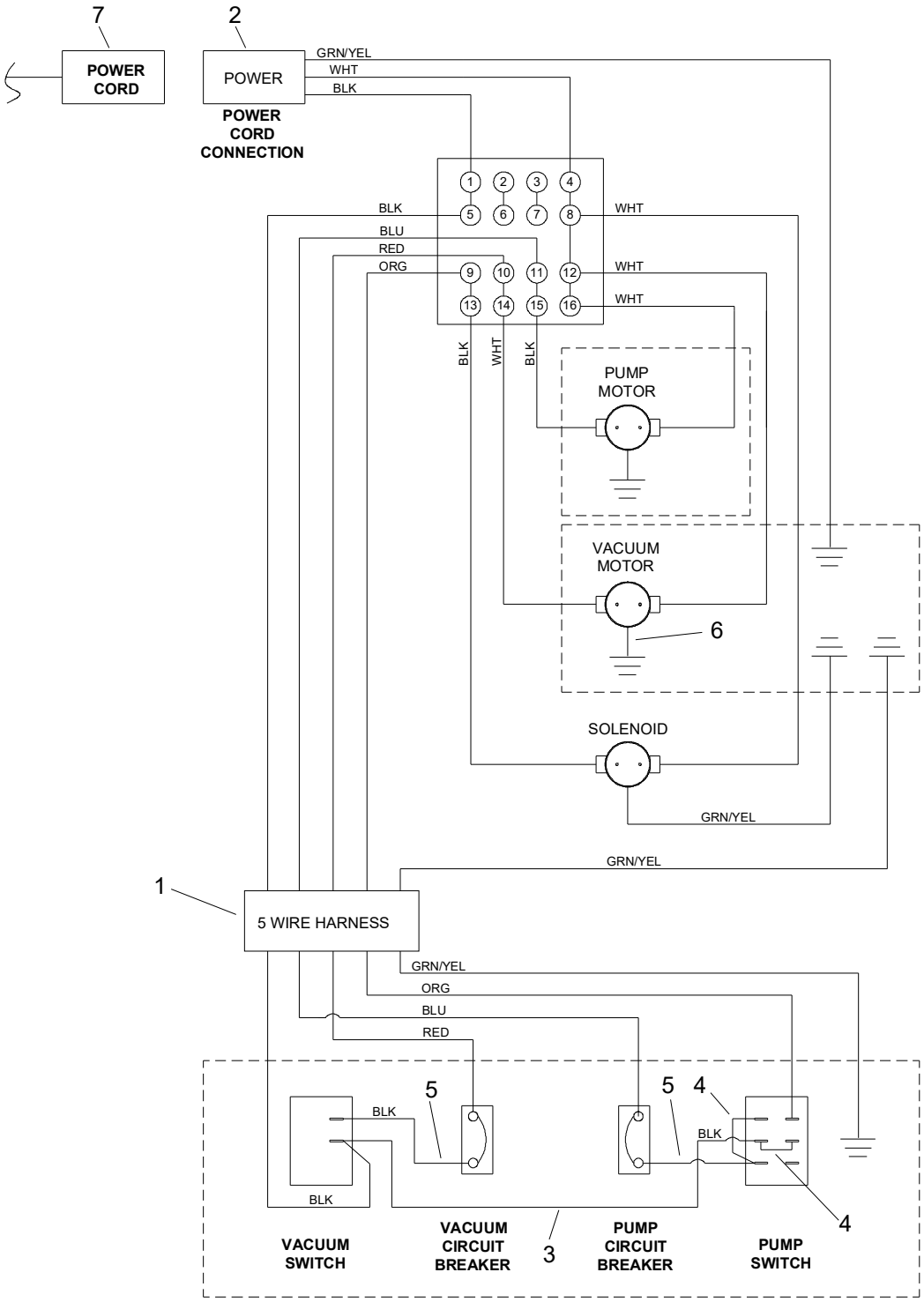
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86257660	02478	1	TOOL, HAND SQUEEGEE		
2	86257650	02477	1	TOOL, SCRUB BRUSH HANDLE		
3	86257640	02475	1	TOOL, GULPER		
4	86257670	02479	1	TOOL, TILE BRUSH		
5	86257680	02480	1	TOOL, ALUMINUM WAND		
6	86257620	02473	1	TOOL, WHEELED SQUEEGEE		
7	86301890	-	1	LANCE, TUBE, 1/4", 14" LONG		
8	86290390	-	1	GUN, PRESSURE WASH PMPTC		
9	86301910	-	1	BUSHING, SPRAY GUN		
10	86301920	-	1	NOZZLE, ADJUSTABLE, 027 JET		
11	86005580	56012	1	NIPPLE, 1/4 FPT QD		
12	86200350	39578	1	HOSE ASM, 1/4HP SLTN 25 FT		NOT SHOWN
13A	86240180	39637	1	HOSE ASM, 1.5 X 30 FT, STRETCH		STANDARD
13B	86240250	39703	1	HOSE ASM, 1.5 BLK VAC X 30'		OPTIONAL
14	86202160	320-05	1	STRAP, VELCRO		NOT SHOWN
15	86234200	23215	1	CORD SET, 14/3 X 50 FT GFCI YLW		NOT SHOWN
16	86301880	-	1	SPRAY GUN		COMPLETE
17	86002400	20064	1	CLAMP, 2.9" WORM GEAR X .312W		
18	86241930	47419	-	KIT, SQUEEGEE TOOL BLADES		
19	86257690	02481	1	TOOL, DOOR WEDGE		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POWER CORD
POWER
GRN/YEL
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BLK
POWER CORD CONNECTION
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9 10 11 12
13 14 15 16
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BLU
RED
ORG
WHT
WHT
WHT
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WHT
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PUMP MOTOR
VACUUM MOTOR
6
SOLENOID
GRN/YEL
GRN/YEL
1
5 WIRE HARNESS
GRN/YEL
ORG
BLU
RED
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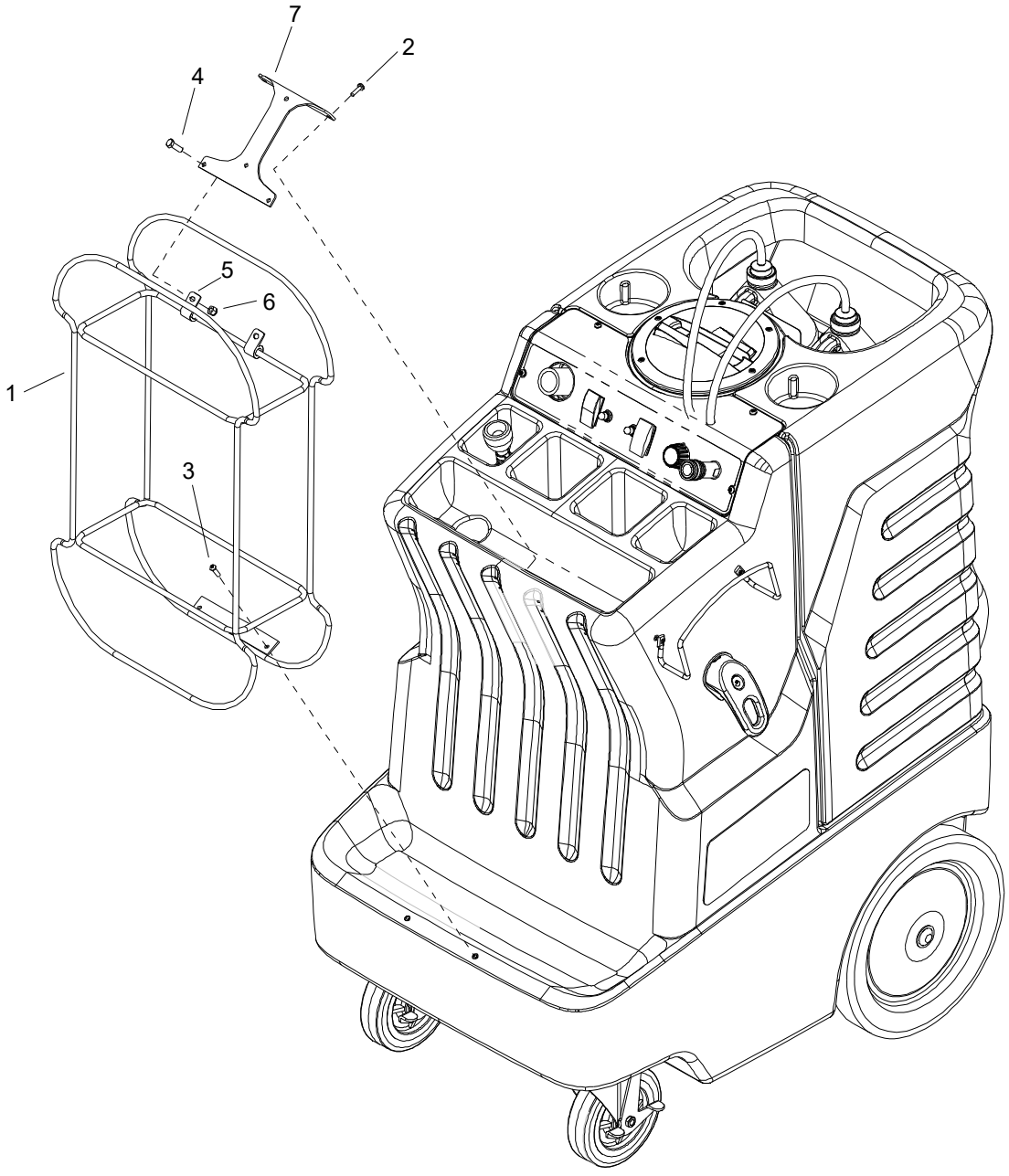
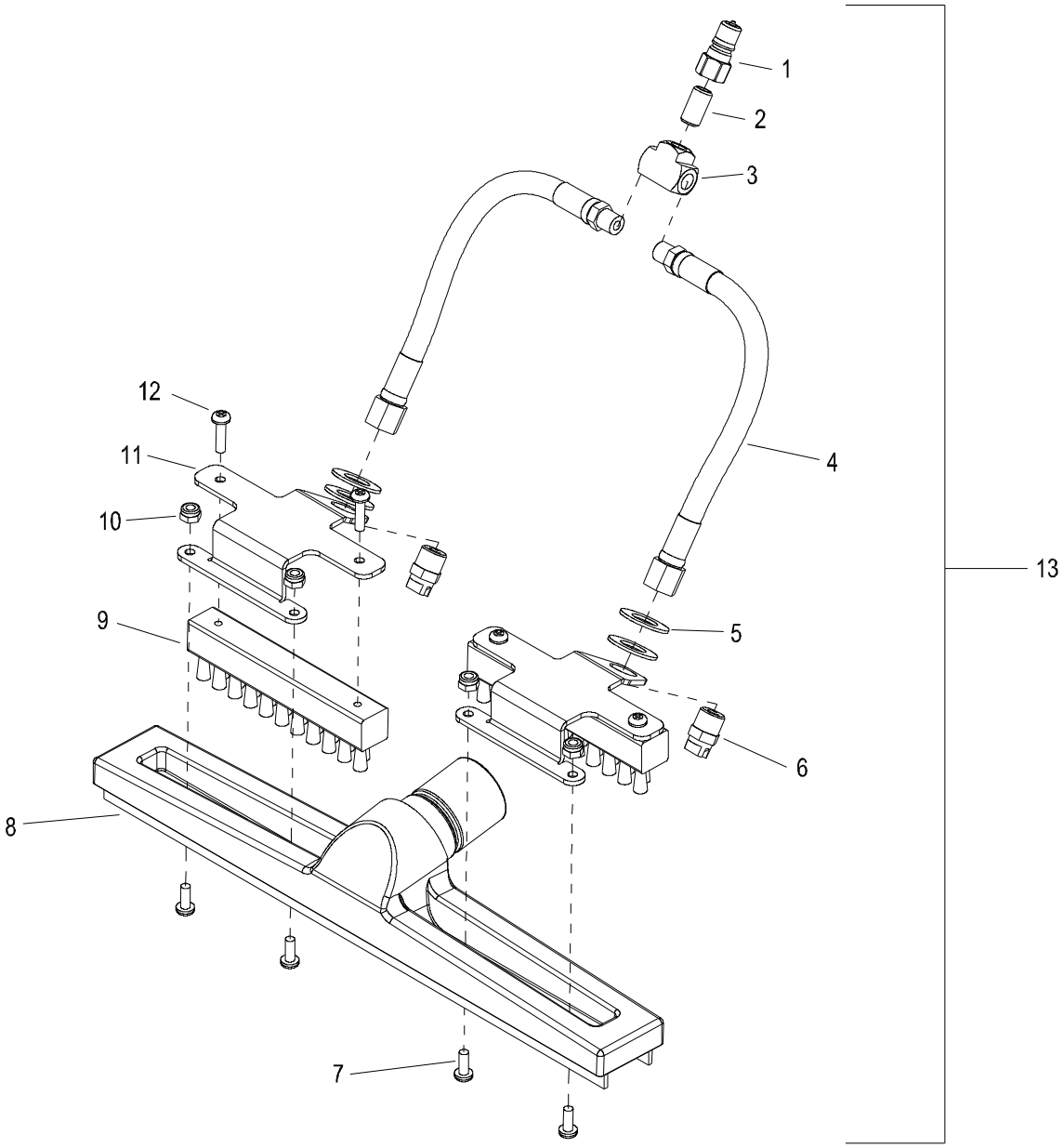
BLK
BLK
BLK
4
VACUUM SWITCH
VACUUM CIRCUIT BREAKER
3
PUMP CIRCUIT BREAKER
PUMP SWITCH

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86305020	-	1	HARNESS, MAIN		
2	86305060	-	1	CORD SET, 14/3 X 31		
3	86308000	-	1	WIRE, 6" BLK/14 76050 X 76029		
4	88305070	-	2	WIRE, 2", BLK/14 76050 X 76029		
5	86268570	88401	2	WIRE, 3", BLK/14 76029X 76029		
6	86268180	88184	1	WIRE, 8", GRN/18 76008 X 76008		
7	86234200	23215	1	CORD SET, 14/3X50' GFCI YLW		

Vacuum Hose Rack - Option



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86240630	49499	1	HOSE RACK		
2	86276600	70696	3	SCR, #10 X 3/4 PTHSMS SS		
3	86006590	70088	2	SCR, 10-32 X 1/2 PPHMS SS NP		
4	86275210	70384	2	SCR, 1/4-20 X ½ PHTR BLK DL		
5	86270250	03-000133	2	CLAMP, 1/4X1/4 BLT VIN DP		
6	86005680	57047	2	NUT, ¼-20 HEX NYLOCK		
7	86068180	140710	1	BRACKET, TOP HOSE RACK		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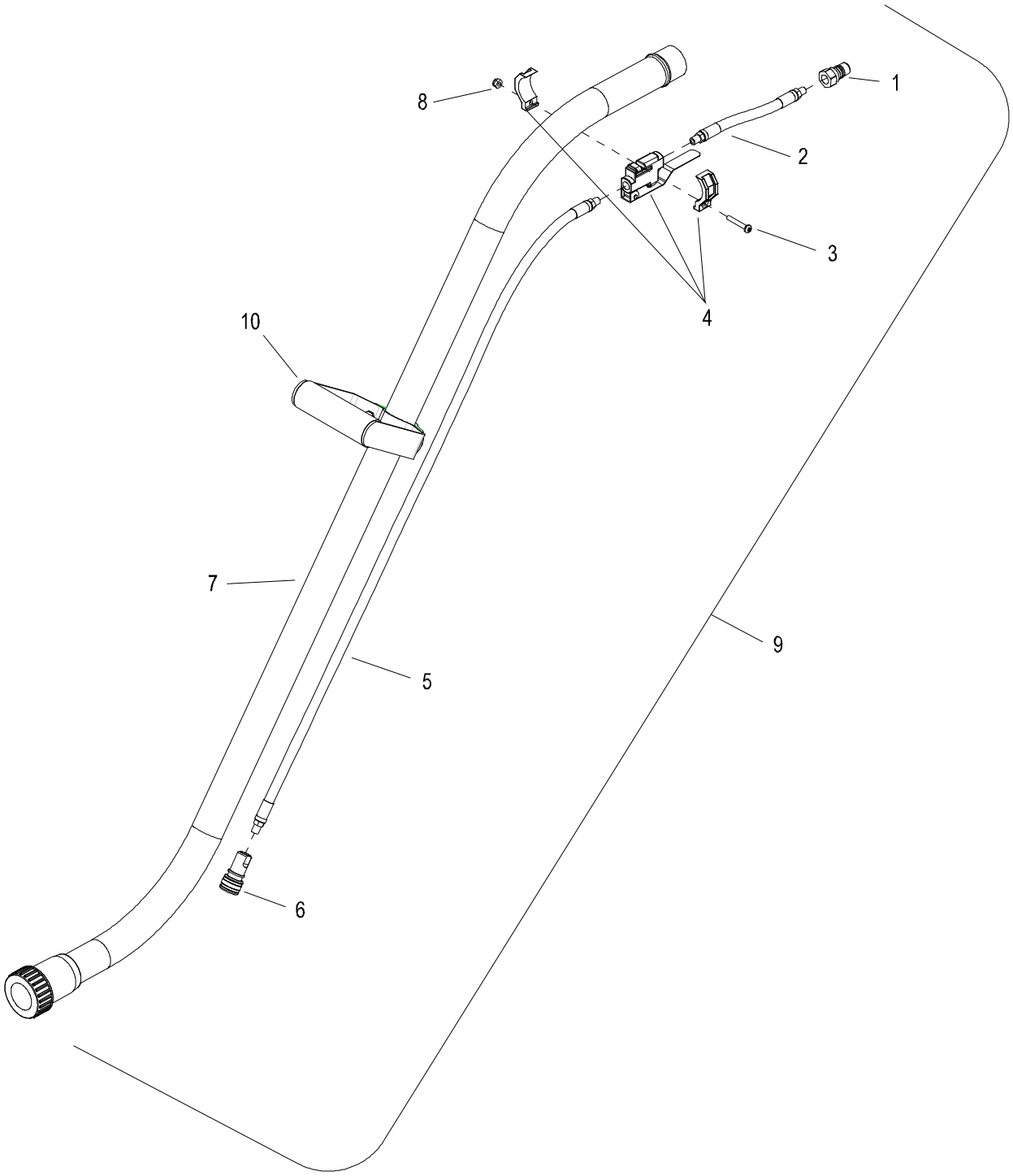
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86200820	270-11A	1	NIPPLE, 1/8 FPT QD MALE BRASS		
2	86247720	56032	1	NIPPLE, 1/8 CLOSE		
3	86194160	11-800133	1	TEE, 1/8 BR		
4	86240190	39639	2	HOSE, 1/8 MPT X 1/4 FPT X 12L		
5	86090230	87015	4	WASHER, 9/16 ID X 1.06 OD SS		
6	86241700	44079	2	JET, 1/4 MEG 15015		
7	86006590	70088	4	SCR, 10-32 X 1/2 PPHMS SS NP		
8	86088740	02476	1	TOOL, GROUT CLEANER		
9	86308040	-	2	BRUSH, FLOOR TOOL		
10	86270990	57090	4	NUT, 10-32 HEX NYLOCK SS		
11	86308780	-	2	BRKT, BRUSH MOUNT		
12	86006870	70406	4	SCREW #10B X 1/2 PHSM BLK		
13	86000480	47431	REF	KIT, GROUT CLEANER		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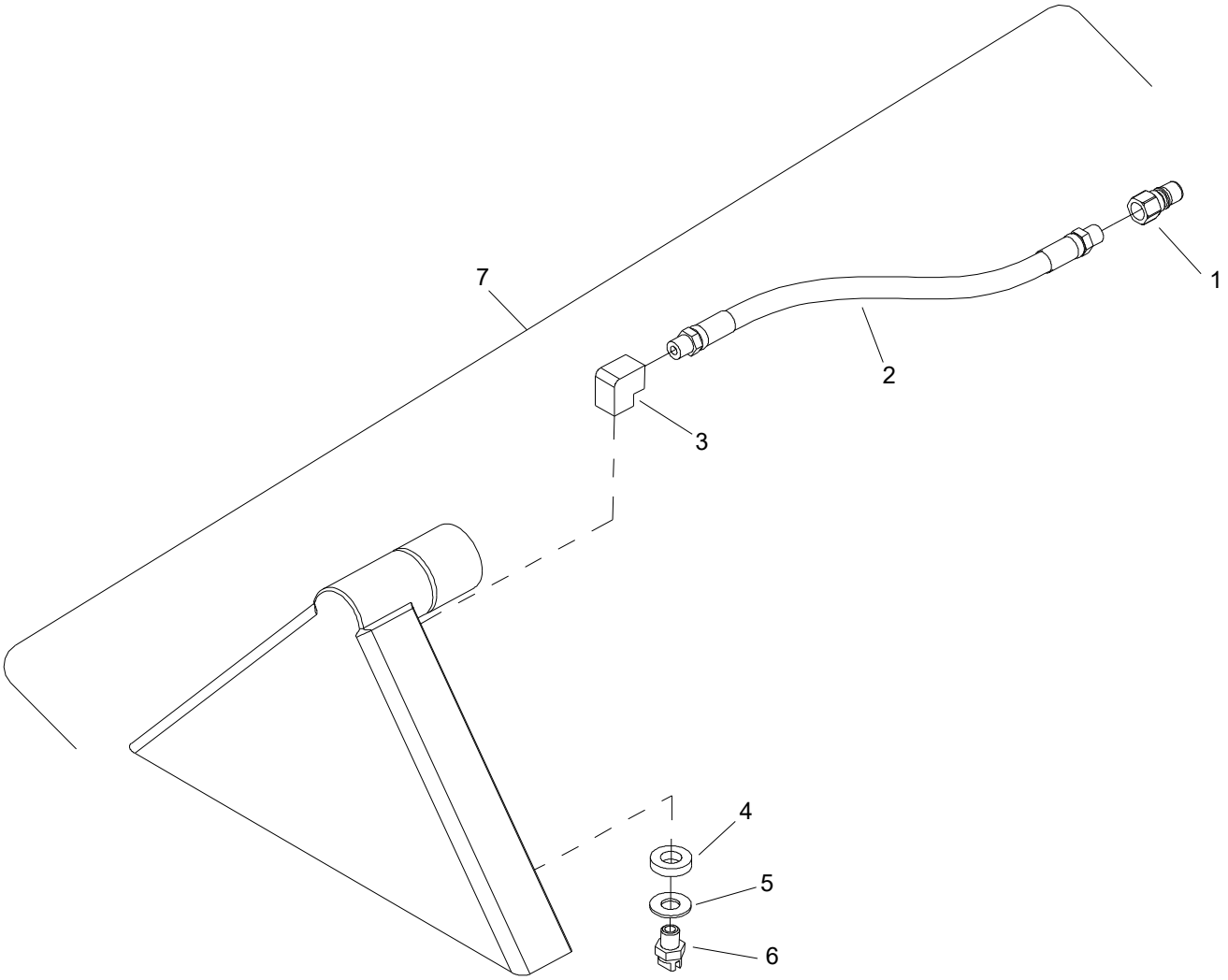
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86005580	56012	1	NIPPLE, 1/4 FPT QD		
2	86240210	39641	1	HOSE, 1/8 MPT X 1/4 MPT X 7 L		
3	86274410	70195	1	SCR, 10-32 X 1.25 PPHMS SS		
4	86258950	84189	1	VALVE, 500 PSI W/ CLAMP		
5	86240200	39640	1	HOSE, 1/8 MPT X 1/8 MPT X 38L		
6	86200810	270-11	1	NIPPLE, 1/8 FPT QD FEM BRASS		
7	86257680	02480	1	TOOL, ALUMINUM WAND		
8	86270990	57090	1	NUT, 10-32 HEX NYLOCK SS		
9	86041300	47432	REF	KIT, HIGH PRESSURE WAND		COMPLETE
10	86135760	38109	1	HANDLE GRIP ASSEMBLY 1.5"T		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REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86200820	270-11A	1	NIPPLE, 1/8 FPT QD MALE BRASS		
2	86240220	39642	1	HOSE, 1/8 MPT X 1/8 MPT		
3	86296220	-	1	ELBOW, 1/8 FPT		
4	86305440	-	1	WASHER, .45ID X .87X .20THK NYL		
5	86305450	-	1	WASHER, .40ID X .87OD X .060THK SST		
6	86241710	44080	1	JET, 1/4 H-VV 11003		
7	86284550	02484	-	TOOL, CARPET CLEANER		COMPLETE

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REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86070520	140660	1	BRKT, CHEMICAL LOCK		

PART NO.	PRV NO.	DESCRIPTION	SERIAL NO. FROM	NOTES:
86241930	47419	KIT, SQUEEGEE TOOL BLADES		
86305460	-	STRAINER, 3/8FPT 80 MESH		
86135320	140687	BRUSH SET, 120V VAC		
86028720	53266	VAC MOTOR ASM, 115V W/ TERM		
86002010	14942	BOOT, 3/8 CIRCUIT BREAKER		
86215670	140839	BREAKER, 8A VDE CIRCUIT		
86001940	14635	BREAKER, 10A CIRCUIT		
86241930	47419	KIT, SQUEEGEE TOOL BLADES		
86302720	-	MOTOR, 700PSI, PUMPTEC		
86302820	-	PUMP, PUMPTEC, 115/230 VOLT		
86301880	-	SPRAY GUN		
86301920	-	NOZZLE, ADJUSTABLE, 027 JET		

REF. NO.	MODEL: SERIAL #
1	10070800000036

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