

Compass 2



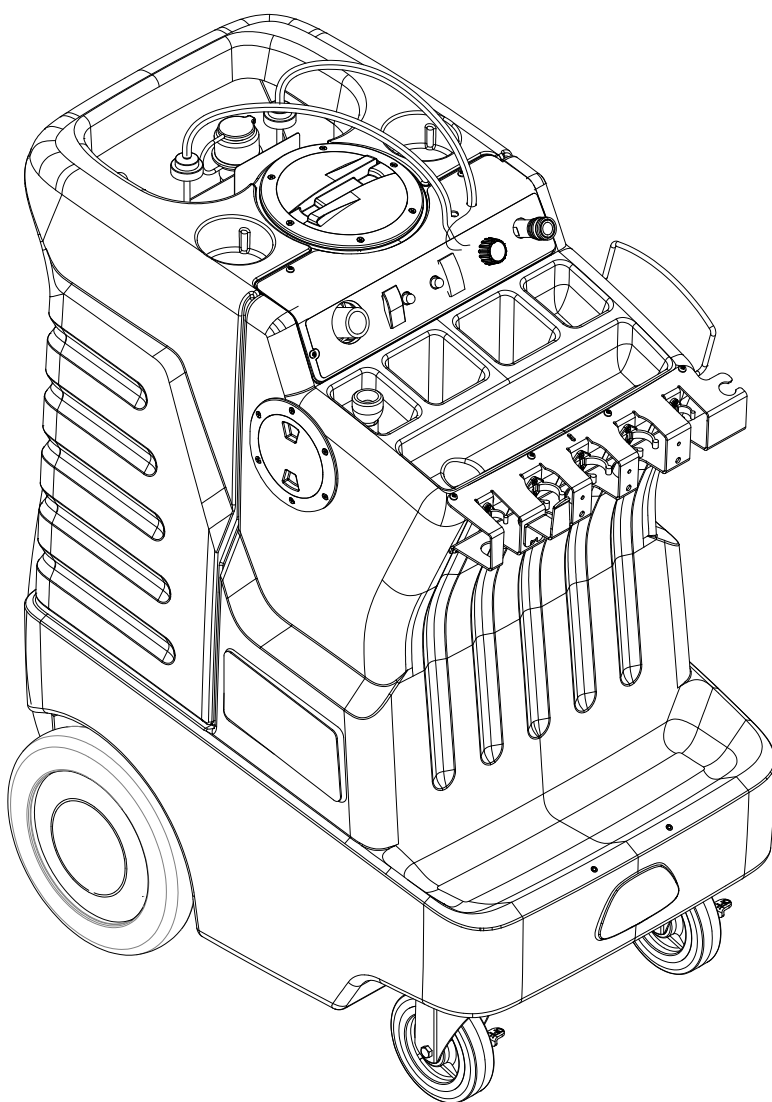
Multi-Functional Cleaning Machine

Operating Instructions (ENG)

MODELS:

CMPS2
1.007-056.0

CMPS2E
1.007-057.0



From Serial Number (Ref No. 1*)

* See Serial Number page
in Spare Parts List
or call manufacturer



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

Overview

The Compass 2™ 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 purchasing a Kärcher North America 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/>

For customer assistance:

1-800-444-7654



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How To Use This Manual

This manual contains the following sections:

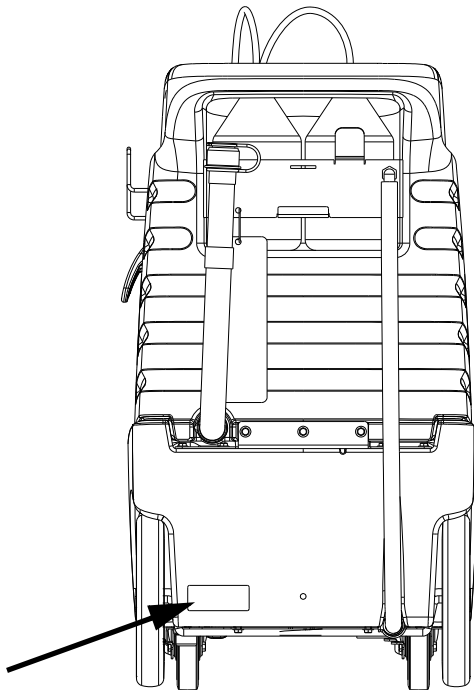
- How to Use This Manual
- Safety
- Operations
- Maintenance
- Parts List
- Suggested Spare Parts

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

NOTE: The number on the lower right corner of the front cover is the part number for this manual.

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

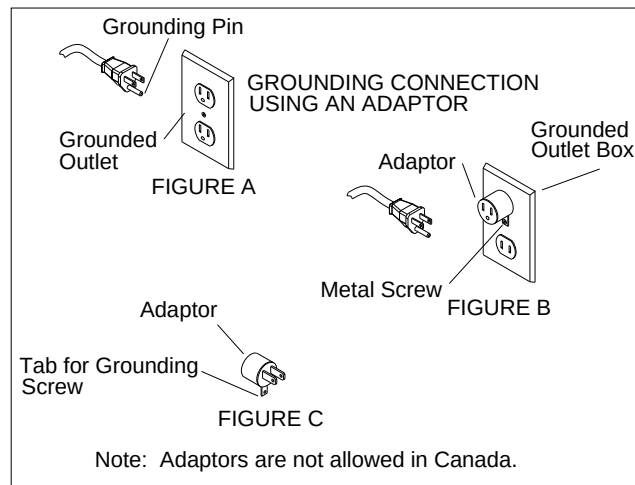
If an extension cord is used, the wire size must be at least one size larger than the power cord on the machine, and must be limited to 50 feet (15.5m) in length.

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.

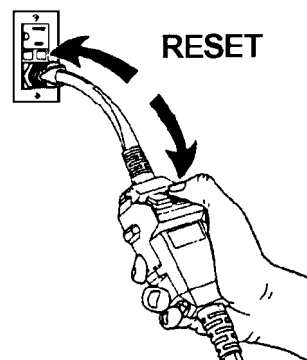
Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet,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

Grounding Instructions (120V ONLY)



Ground-Fault Circuit-Interrupter Protection (120V ONLY)

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.

Use only in enclosed areas. Do not use outdoors and do not leave it in the rain.

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

Do not operate this machine near flammable fluids, dust or vapors.

Maintenance and repairs must be done by qualified personnel.

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

READ AND SAVE THESE INSTRUCTIONS

CONSIGNES IMPORTANTES DE SÉCURITÉ

Lors de l'utilisation d'un appareil électrique, il faut toujours observer des précautions élémentaires, qui comprennent parmi celles-ci :

LISEZ BIEN L'ENSEMBLE DES CONSIGNES AVANT D'UTILISER CET APPAREIL.

⚠ AVERTISSEMENT: Pour réduire les risques d'incendie, d'électrocution ou de blessure :

Raccordez l'appareil à une prise adéquatement reliée à la terre. Voir les Consignes de mise à la terre.

Ne laissez pas l'appareil sans surveillance lorsqu'il est branché. Débranchez l'appareil lorsqu'il n'est pas utilisé et avant tout entretien.

Utilisez-le exclusivement dans des endroits fermés. Ne l'utilisez pas en plein air et ne le laissez pas sous la pluie.

Ne pas permettre aux enfants de jouer avec l'appareil. Durant la manœuvre de la machine, prendre garde aux personnes environnantes et notamment aux enfants.

Ne pas diriger le pistolet vers les gens.

Utilisez-le exclusivement de la manière décrite dans ce manuel. Utilisez exclusivement les composants et les fixations recommandés par le fabricant.

N'utilisez pas l'appareil si le cordon ou la fiche est endommagé(e). Observez toutes les consignes figurant dans ce manuel au sujet de la mise à la terre de l'appareil. Si l'appareil ne fonctionne pas correctement, s'il est tombé par terre, s'il est endommagé, s'il a été laissé dehors ou s'il a été plongé dans l'eau, veuillez le renvoyer à un centre d'entretien agréé.

Ne tirez pas sur le cordon, ne portez pas l'appareil par le cordon, n'utilisez pas le cordon comme poignée, ne fermez pas une porte sur le cordon, ne tirez pas sur le cordon dans des angles ou des coins pointus.

Ne faites pas passer l'appareil par-dessus le cordon. Maintenez le cordon à l'écart de surfaces chauffées..

Ne débranchez pas l'appareil en tirant sur le cordon. Pour le débrancher, empoignez la fiche, non pas le cordon.

Ne manipulez pas la fiche ou l'appareil les mains mouillées.

Ne faites pas fonctionner l'appareil si des ouvertures sont bouchées. Dégagez des ouvertures tous débris susceptibles d'entraver le passage de l'air.

Ne pas ramasser quelque chose qui brûle ou fume, comme des cigarettes, des allumettes ou des cendres chaudes.

Cet appareil n'est pas conçu pour aspirer des poussières dangereuses.

Arrêtez toutes les commandes avant le débranchement.

Ne faites pas fonctionner cet appareil à proximité de fluides, de poussières ou de vapeurs inflammables.

Les travaux de maintenance et de réparation doivent absolument être effectués par du personnel qualifié.

Si de la mousse ou du liquide s'échappe de la machine, éteignez-la immédiatement.

CONSERVEZ CES CONSIGNES

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



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 manufacturer approved replacement parts.

Les symboles ci-dessous sont utilisés à travers ce manuel comme illustré dans leurs descriptions :

DEGRÉS DE RISQUES EN CAS DE DANGER

Il existe trois degrés de risques identifiés par les termes signalétiques -**AVERTISSEMENT** et **ATTENTION** et **POUR VOTRE SÉCURITÉ**. Le degré de risque est défini de la manière suivante :

AVERTISSEMENT:

AVERTISSEMENT - Dangers ou méthodes dangereuses qui POURRAIENT provoquer de graves blessures ou entraîner la mort.

ATTENTION:

ATTENTION - Dangers ou méthodes dangereuses qui pourraient provoquer des blessures légères ou une détérioration du produit ou des biens immobiliers.

POUR VOTRE SÉCURITÉ : ce signe permet d'identifier les mesures de précaution à prendre pour assurer un bon fonctionnement du matériel.

Rendre compte immédiatement d'une défaillance ou d'une détérioration de la machine. Ne pas utiliser la machine si celle-ci ne fonctionne pas correctement. Lire soigneusement les informations ci-dessous signalant certains dangers potentiels pour l'opérateur de la machine. L'opérateur doit être absolument au courant de ces dangers potentiels. Localiser tous les dispositifs de sécurité sur la machine. Il est conseillé de prendre les mesures nécessaires pour former le personnel opérateur.

POUR VOTRE SÉCURITÉ :

NE PAS MANOEUVRER LA MACHINE :

Lorsqu'on n'est pas expérimenté ou qualifié.

Lorsque le guide d'utilisation n'est pas été lu ou compris.

Dans des zones inflammables ou explosives.

Dans des zones où des objets peuvent tomber.

LORS DE L'ENTRETIEN DE LA MACHINE :

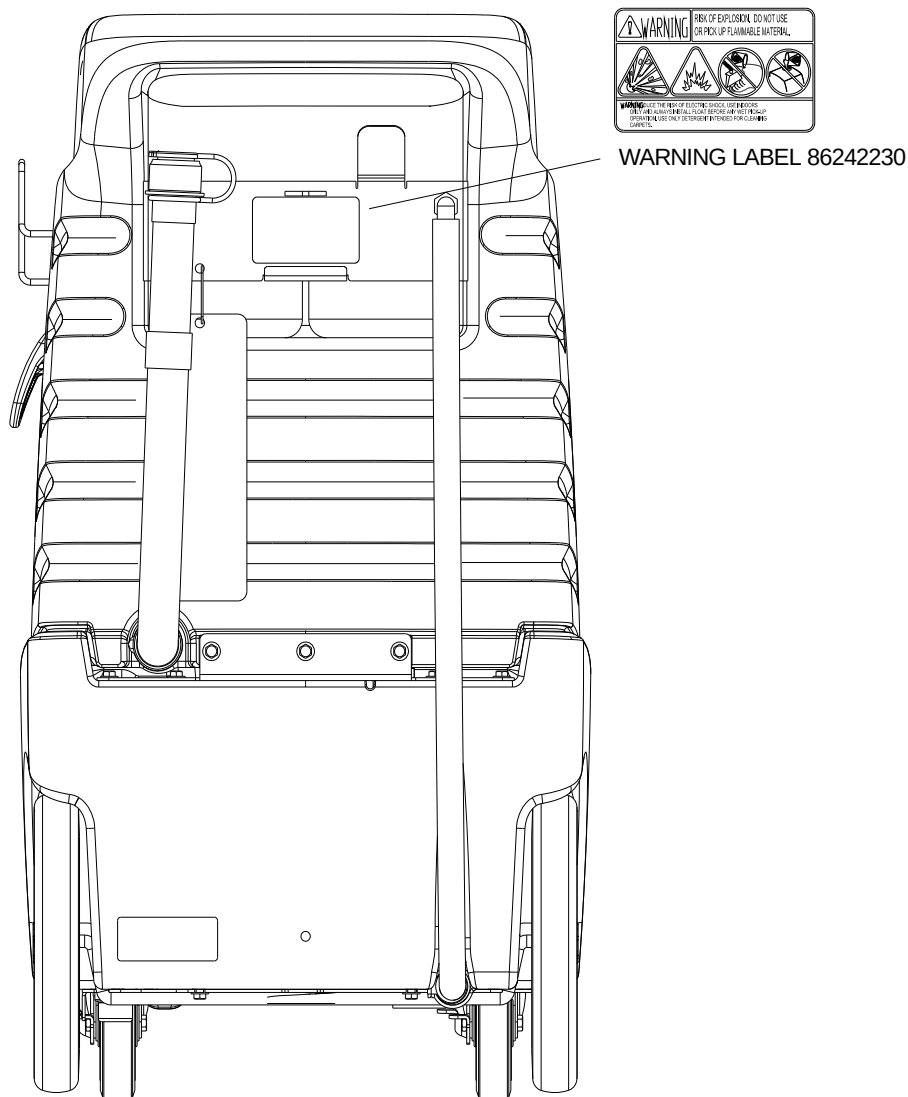
Éviter les parties amovibles. Ne pas porter de vêtements amples, tels que des vestes, des chemises ou des vêtements avec manches lors de l'utilisation de la machine. Utiliser les pièces de rechange approuvées par le fabricant.

Safety Label Location

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

EMPLACEMENT DE L'ÉTIQUETTE DE SÉCURITÉ

REMARQUE : Ces dessins indiquent l'emplacement des étiquettes de sécurité sur la machine. Si, à tout moment, les étiquettes deviennent illisibles, contactez votre représentant autorisé pour un remplacement rapide



Technical Specifications

ITEM	DIMENSION/CAPACITY
Electrical	120V, 14A, 60HZ 230V, 7A, 50HZ
Electric Pump Motor	1/2hp, 1750rpm
Solution Pump	700psi (48 bars), Axial plunger
Electric Vacuum Motor	2stage, 1.25hp (2.80m ³ /min.)
Water lift	82 in. (208 cm)
Solution Capacity	29 gallons (111L)
Recovery Capacity	19 gallons (70L)
Wheels	
-Front (2)	6 in. dia. (15.24cm) X 1.5
-Rear (2)	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 near field, 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. 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 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.

ATTENTION:

Cet appareil n'est pas prévu à l'usage des personnes (enfants y compris) avec des possibilités physiques, sensorielles ou mentales réduites, ou le manque d'expérience et de connaissance, à moins qu'ils aient été donnés la surveillance ou l'instruction au sujet de l'utilisation de l'appareil par une personne chargée de leur sûreté. Des enfants devraient être dirigés pour s'assurer qu'ils ne jouent pas avec l'appareil.

How The Machine Works

The Compass 2™ 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.

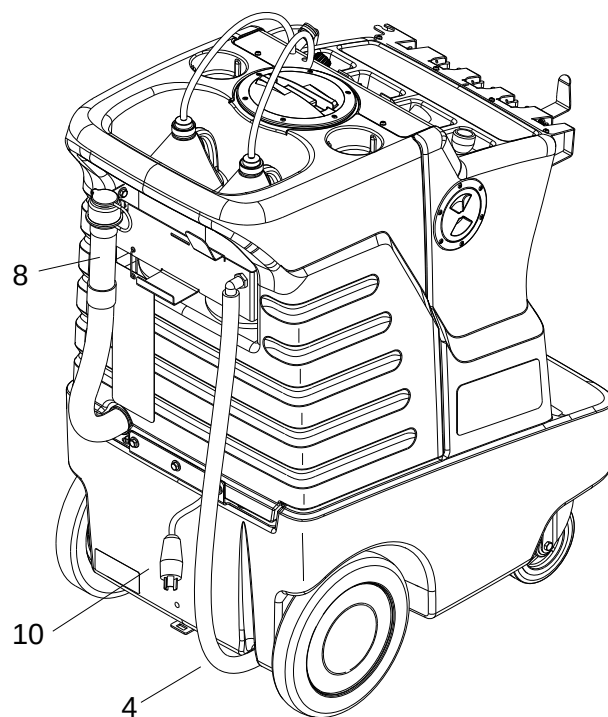
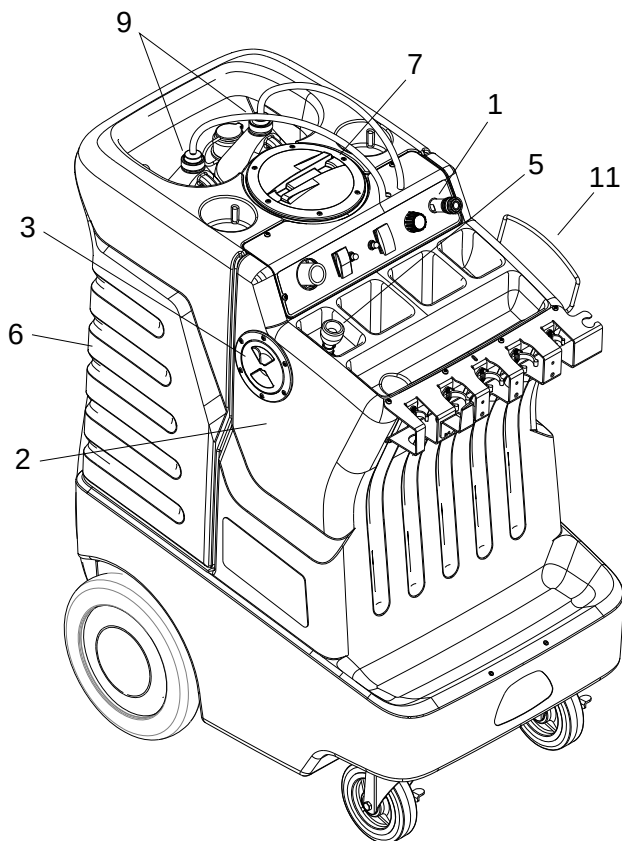
The machine's primary systems are the clean water system, recovery system, chemical system and pressure washer system.

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.

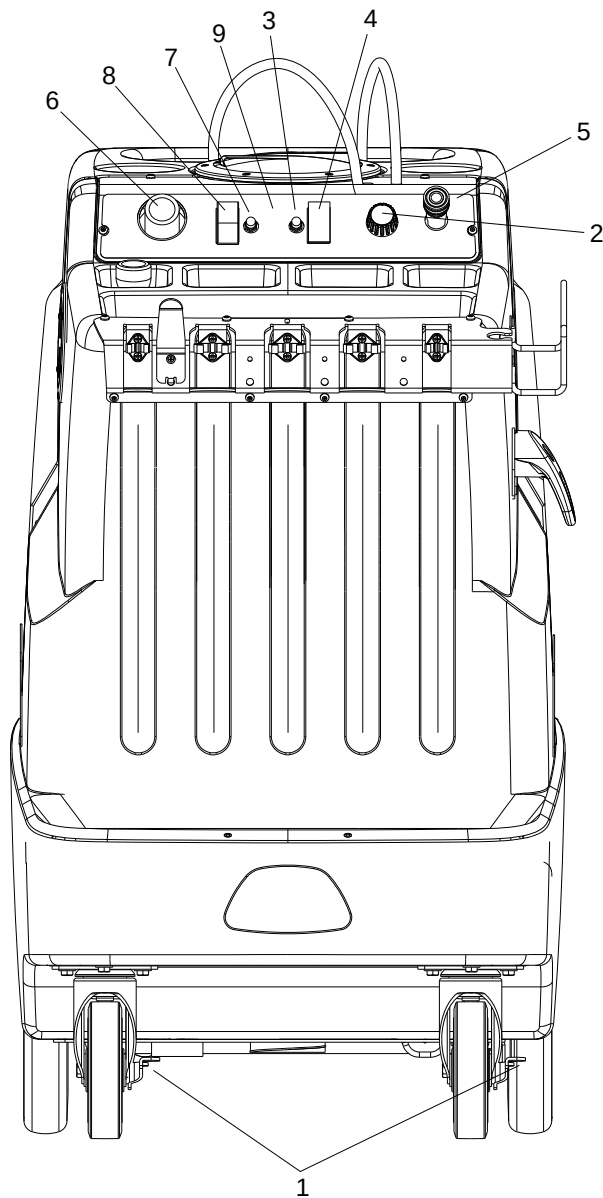
The function of the chemical system is to dispense chemical into the clean water system. The chemical system consists of the chemical reservoir, chemical cap and a chemical-metering selector. The chemical reservoir stores and dispenses chemical into the clean water system. The chemical-metering selector 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 | 7. Recovery Tank Lid |
| 2. Solution Tank | 8. Recovery Tank Drain Hose |
| 3. Solution Tank Lid | 9. Chemical Siphon Caps |
| 4. Solution Tank Drain Hose | 10. Electrical Cord |
| 5. Solution Tank Fill Hose | 11. High Pressure Hose Storage |
| 6. Recovery Tank | |



Controls

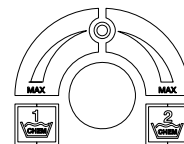
- | | |
|---|------------------------------------|
| 1. Caster Lock | 5. Solution Accessory Tool Hook-Up |
| 2. Chemical Selector and Metering Valve | 6. Vacuum Accessory Tool Hook-Up |
| 3. Pump Circuit Breaker | 7. Vacuum Circuit Breaker |
| 4. Pump Switch/Pump Chemical Switch | 8. Vacuum Switch |
| | 9. Main Switch (230V only) |

1. CASTER LOCK

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

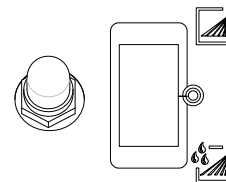
2. CHEMICAL SELECTOR AND METERING VALVE

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



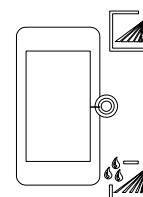
3. PUMP CIRCUIT BREAKER

8 Amp. Protects the pump motor.



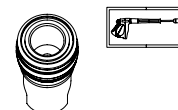
4. PUMP SWITCH

High pressure no chemical, low pressure with chemical.



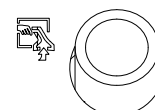
5. SOLUTION ACCESSORY TOOL HOOK-UP

Used for various auxiliary-cleaning tools.



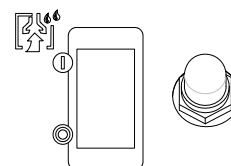
6. VACUUM ACCESSORY TOOL HOOK-UP

To use accessory tool, remove hose from vacuum shoe and attach to accessory tool adapter.



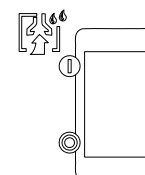
7. VACUUM CIRCUIT BREAKER

10 Amp. Protects the vacuum motor.



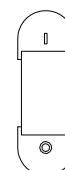
8. VACUUM SWITCH

Turns the vacuum motor On and Off.



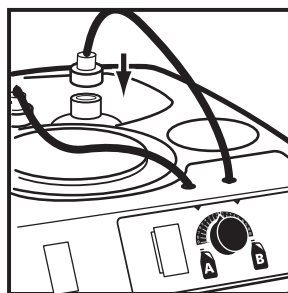
9. MAIN SWITCH

Power on and off switch 230V (ONLY).



Filling The Machine

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

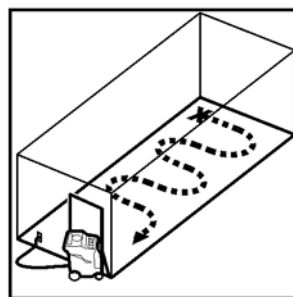


1. Always use gloves and eye protection. Never spray solution towards people.

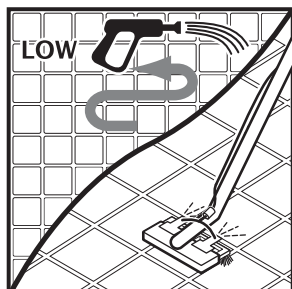


2. To fill Use fill hose or pour directly into solution tank. Use COLD WATER. Add 1 ½ oz of Compass-Rinse TM to each full solution tank.

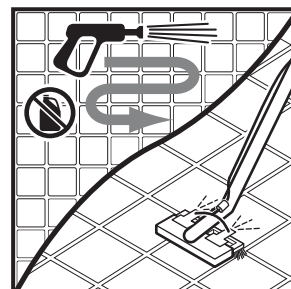
3. Attach the adapter cap and intake hose to the Compass 2TM Chemical bottle. Refer to the Compass 2TM Chemical Label for the desired dilution.



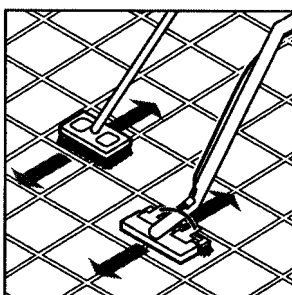
4. Position the Compass 2TM machine in the doorway, lock front casters. Start at furthest point in the room and work towards the door.



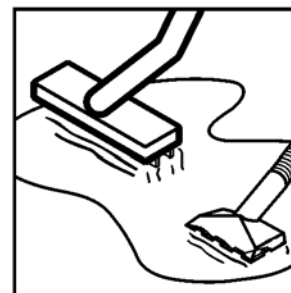
5. Always Spray chemical using low pressure.



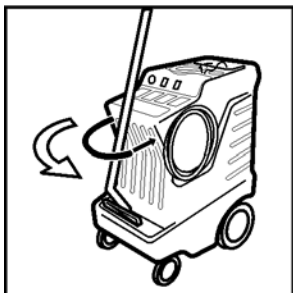
7. Turn Chemical off. Pressure clean by rinsing surfaces at high pressure.



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



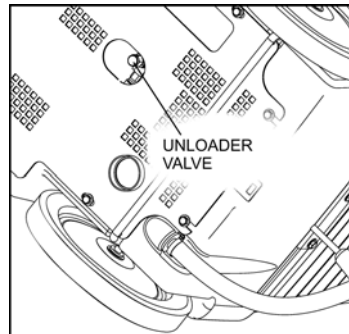
8. Use Squeegee or Gulper tool to remove standing water.



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 Compass 2 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.

⚠ 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.

⚠ AVERTISSEMENT:

Il faut être prudent en utilisant des produits chimiques. Les produits chimiques sont toxiques et peuvent présenter un risque pour la santé. Lisez et suivez les instructions du fabricant concernant les dangers et les usages corrects.

⚠ 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.

⚠ ATTENTION:

Les pièces internes de la pompe utilisée dans la machine peuvent être utilisées avec la plupart des produits chimiques de nettoyage des tapis. Mais elles sont sensibles à l'attaque chimique de certains produits de nettoyage, tels que les solvants hydrocarbonés et les décolorants chlorés. Ces matériaux non compatibles ne sont pas du type utilisé pour le nettoyage des tapis.

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

*Registered Trademarks

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.

⚠ AVERTISSEMENT:

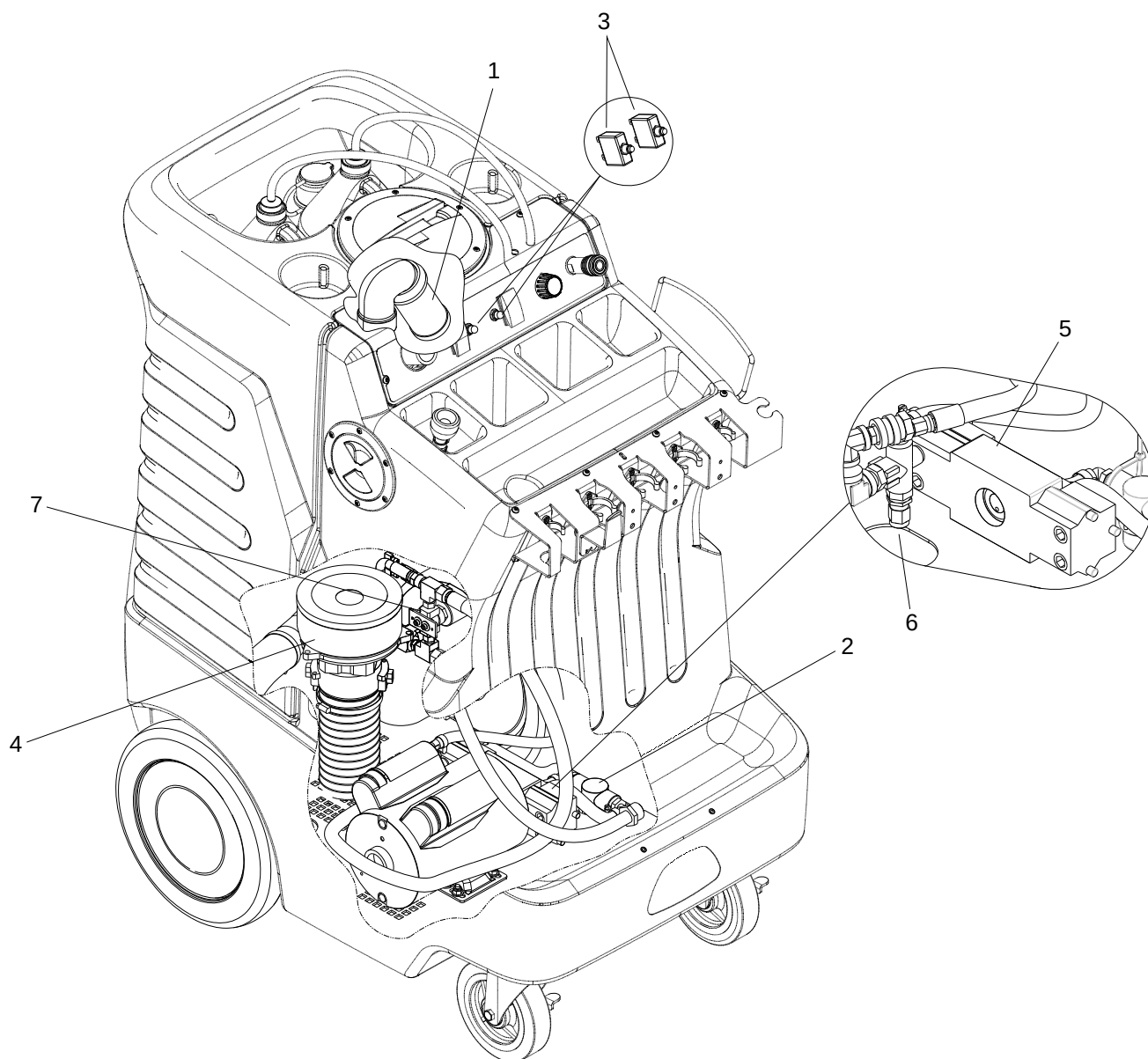
Ne pas laisser la pompe fonctionner à sec.

⚠ WARNING:

Do not let pump run unattended.

⚠ AVERTISSEMENT:

Ne pas laisser la pompe fonctionner sans surveillance.



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

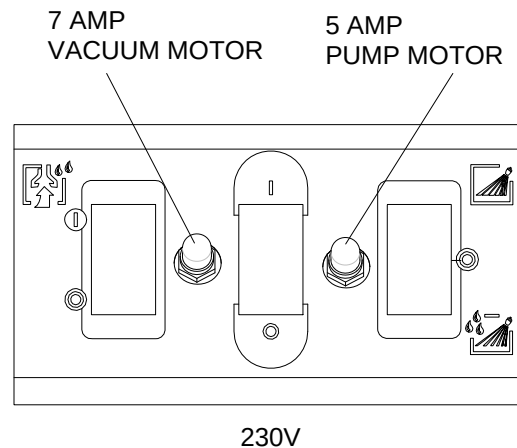
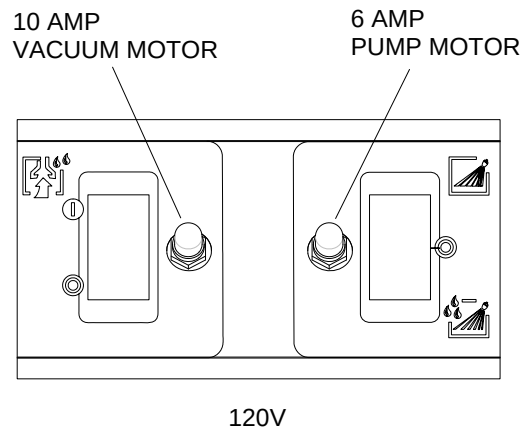
The float shut-off is located inside the recovery tank. The purpose of the float shut-off is to notify the user that the recovery tank is full. Remove daily and clean any debris for maximum airflow.

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 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.

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.



Vacuum Motor

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

⚠ WARNING:

Only qualified maintenance personnel are to perform the following repairs.

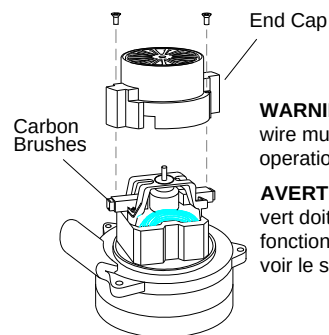
⚠ AVERTISSEMENT:

Seul le personnel d'entretien qualifié peut effectuer des réparations.

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.

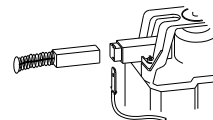
Vacuum Motor Carbon Brushes



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

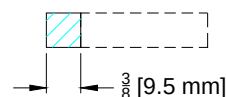
AVERTISSEMENT: Le fil à la terre vert doit être attaché pour un fonctionnement en toute sécurité. voir le schéma de câblage.

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.

! AVERTISSEMENT:

Seul le personnel d'entretien qualifié peut effectuer des réparations.

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.

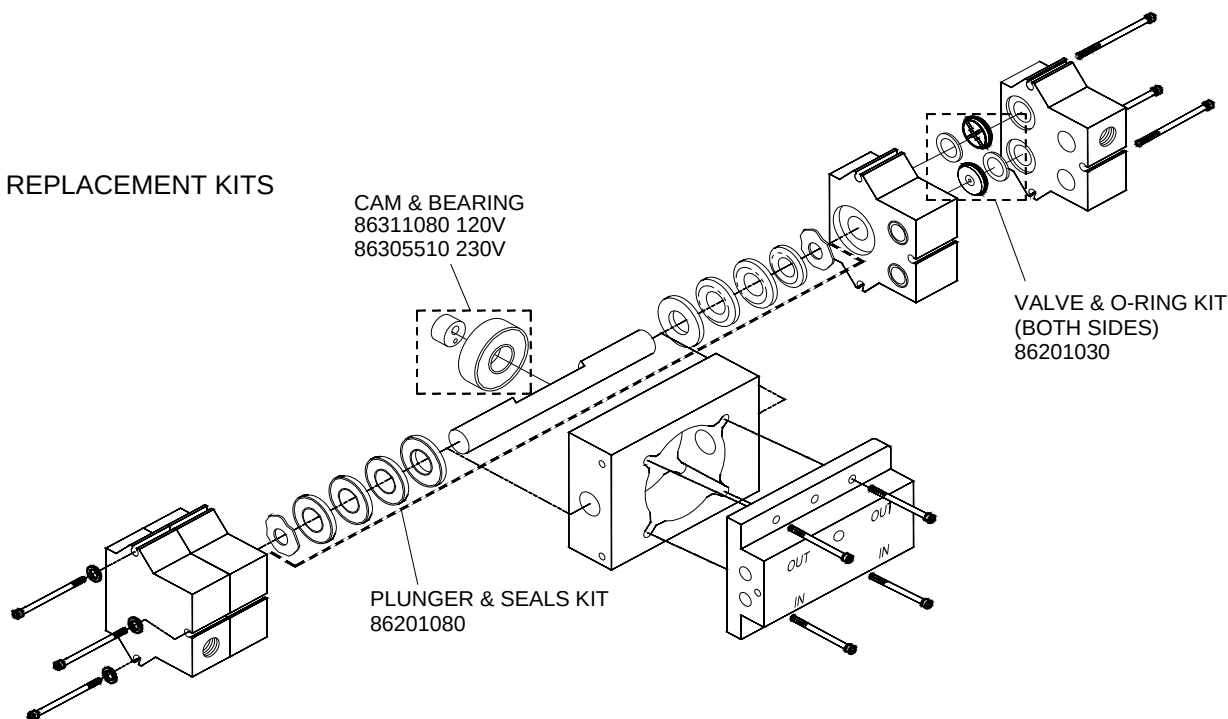
! AVERTISSEMENT:

Seul le personnel d'entretien qualifié peut effectuer des réparations.

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

WARNING:

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

AVERTISSEMENT:

Retirez le cordon d'alimentation de la machine de la source électrique avant de procéder à des réparations ou des ajustements de la machine.

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 vacuum 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 vacuum motor for at least one minute to allow motor to dry	*		
Store with dome off tank to allow the tank to dry	*		
Check all 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 vacuum 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 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 or 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
	Vacuum motor seals leaking	Replace
	Floor tool vacuum chamber clogged	Wash out with hose, Pick lint out with a wire
	Vacuum 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 21)
	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.

Suggested Spare Parts

86241930 KIT, SQUEEGEE BLADES
86301920 NOZZLE

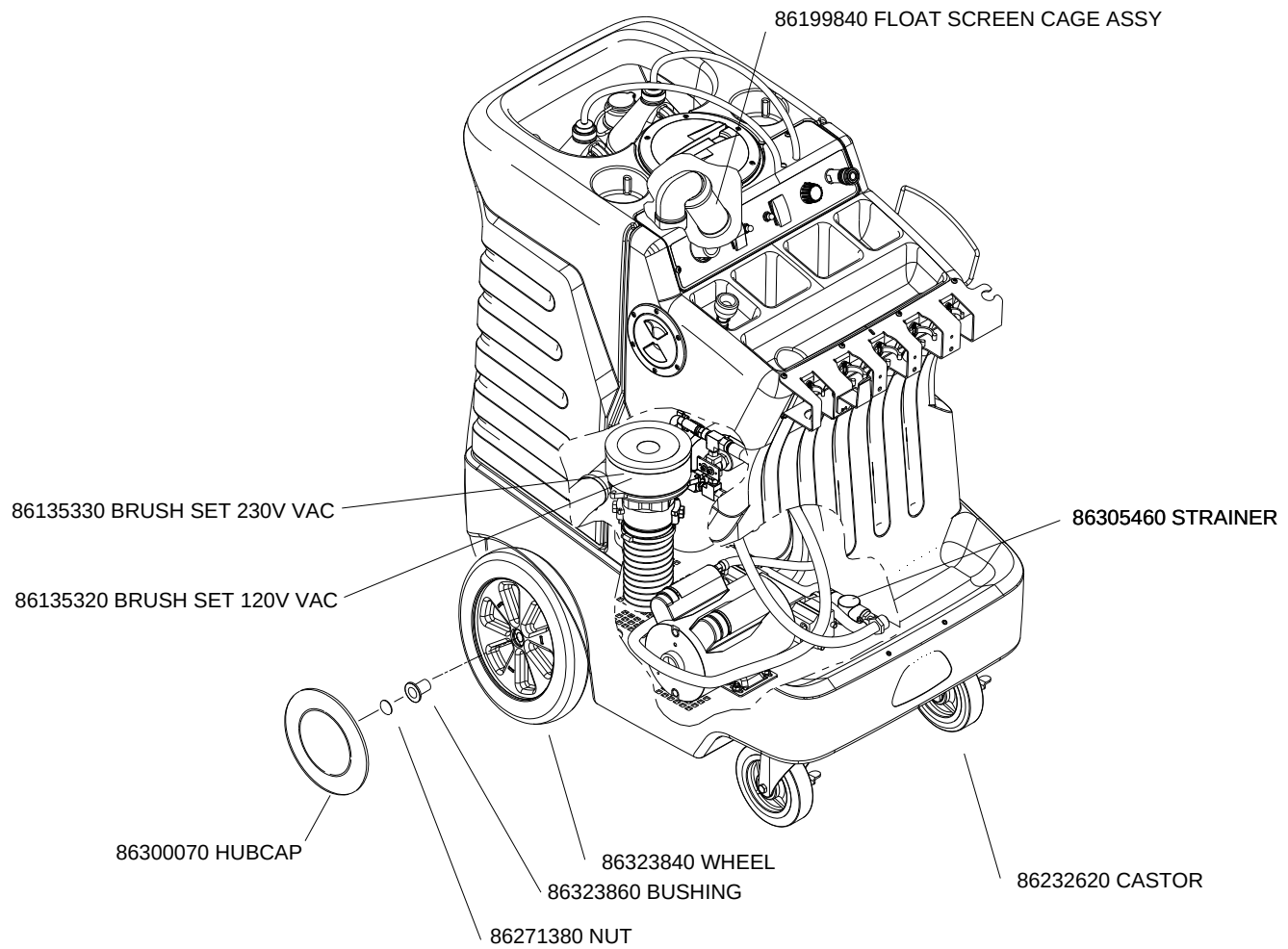
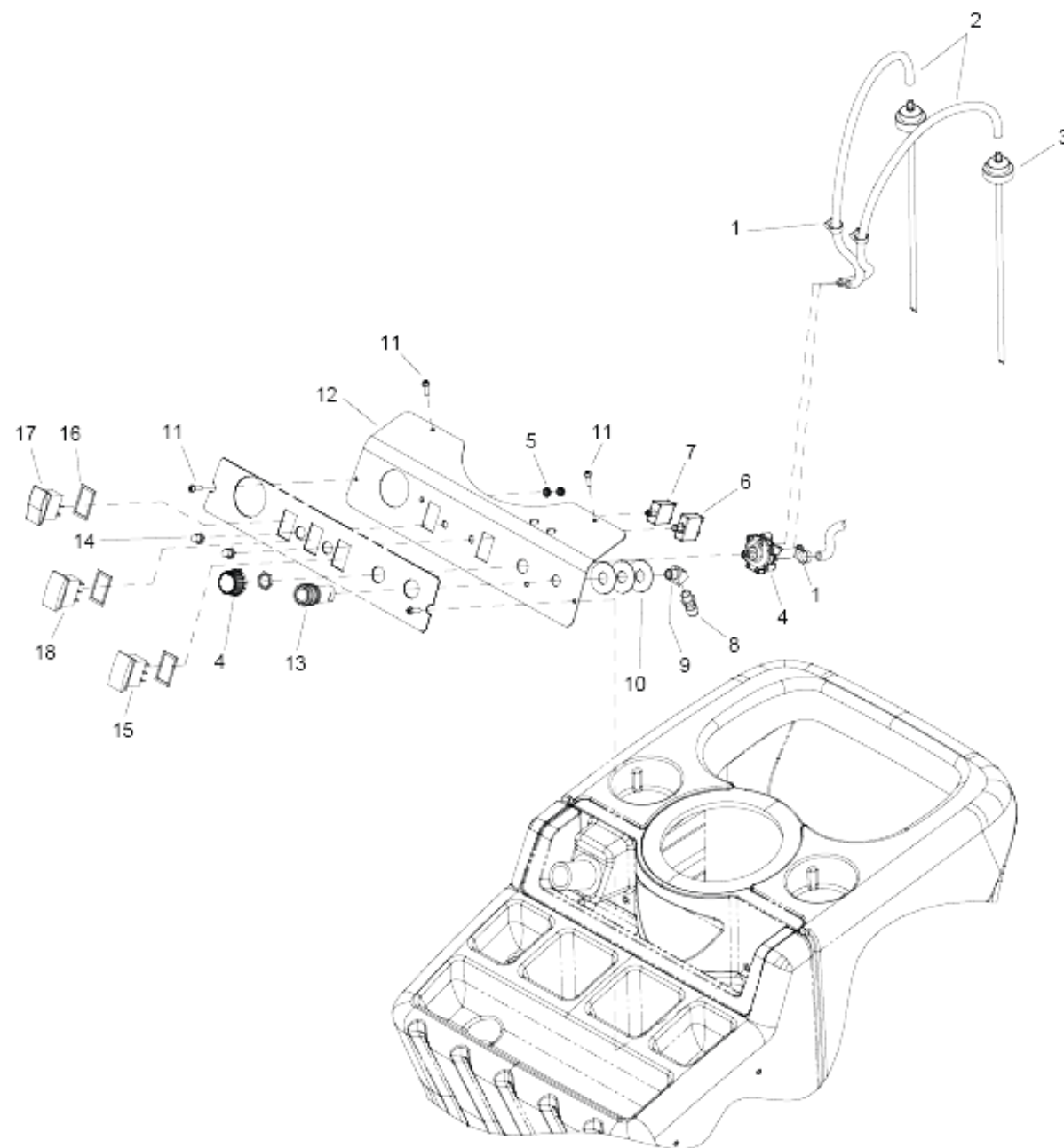


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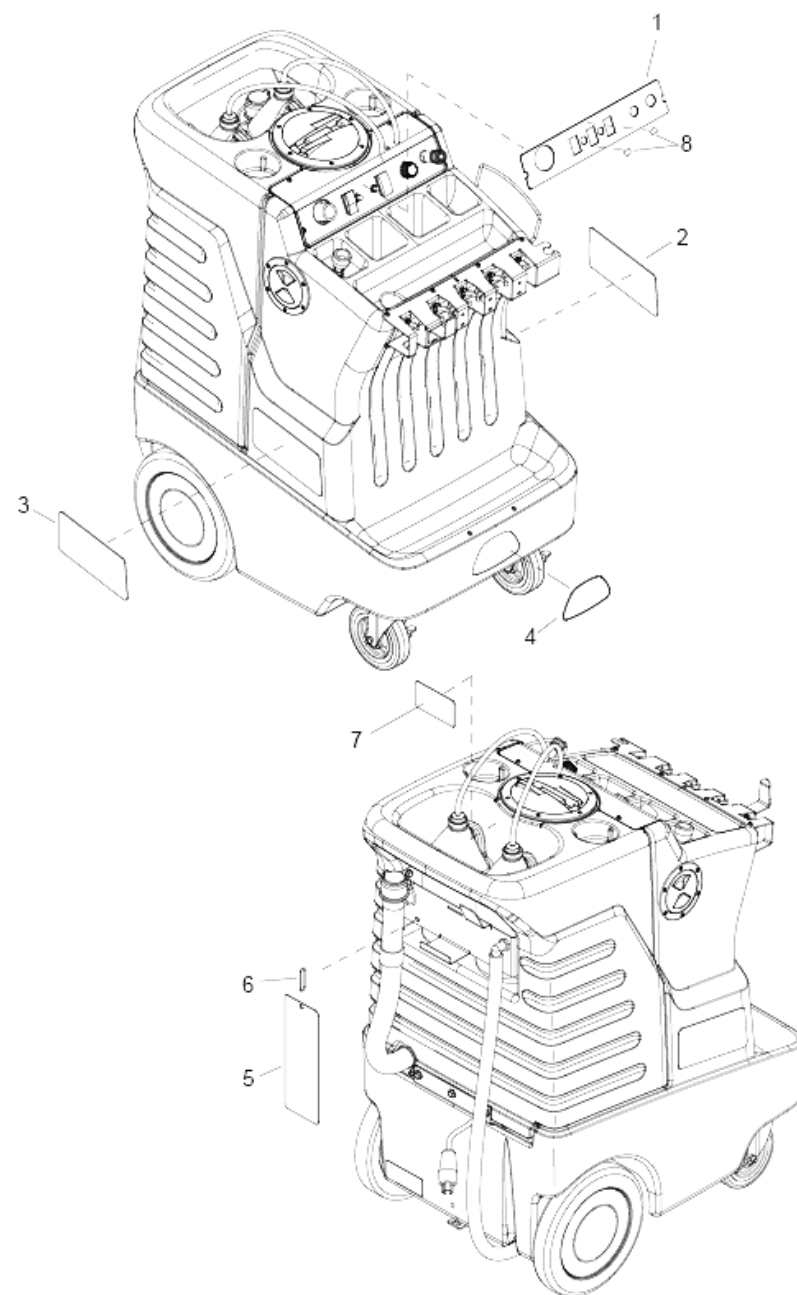
COMPASS 2 115V (All MODELS:)

POS	Description	Quantity	Unit
9030	CONTROL PANEL	1.000	ST
9040	DECALS	1.000	ST
9050	SOLUTION TANK	1.000	ST
9060	SOLUTION-INJECTOR ASSEMBLY	1.000	ST
9070	SOLUTION PUMP 1	1.000	ST
9080	SOLUTION PUMP 2	1.000	ST
9090	RECOVERY TANK	1.000	ST
9100	VACUUM	1.000	ST
9110	WHEELS & FRAME	1.000	ST
9120	TOOLS-STANDARD	1.000	ST
9130	WIRING-DIAGRAM-120V	1.000	ST
9140	WIRING-DIAGRAM-230V	1.000	ST
9150	VACUUM HOSE RACK-OPTION	1.000	ST
9160	TOOLS-GROUT CLEANER-OPTION	1.000	ST
9170	TOOLS-HIGH PRESSURE WAND-OPTION	1.000	ST
9180	TOOLS-CARPET TOOL-OPTION	1.000	ST
9190	CHEMICAL LOCK-OPTION	1.000	ST
9200	SERIAL NUMBER	1.000	ST



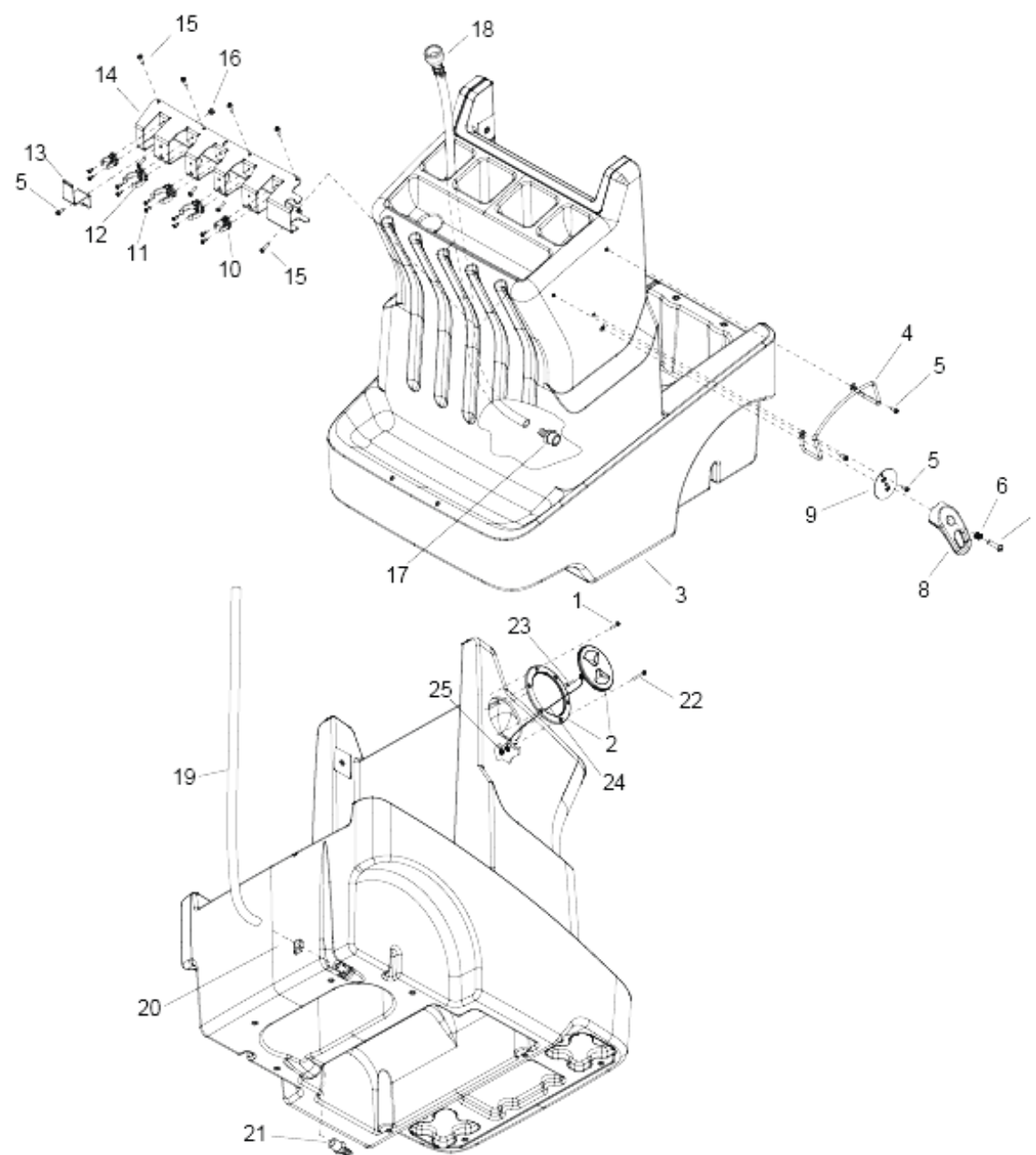
9030 CONTROL PANEL

POS	Article no.	Description	Quantity	Unit	Remark
1	8.623-309.0	CLAMP, 1/4 ID HOSE	3.000	ST	
2	8.628-228.0	Hose 1/4ID NYLOBRD X 23"	2.000	ST	
3	8.640-250.0	CAP CHEM FEED W/DIP TUBE, YLW	2.000	ST	
4	8.625-893.0	VALVE, CHEMICAL METERING	1.000	ST	
5	8.600-570.0	NUT, 10-32 HEXSTRW LK STL ZNPLT	2.000	ST	
6	8.600-194.0	BREAKER, 10A CIRCUIT	1.000	ST	120V
6	8.623-011.0	BREAKER, 7A CIRCUIT	1.000	ST	230V
7	8.623-020.0	BREAKER, 5A VDE CIRCUIT	1.000	ST	230V
7	8.621-567.0	BREAKER, 8A VDE CIRCUIT	1.000	ST	120V
8	8.630-240.0	QD, NIPPLE, FOSTER 25MPB	1.000	ST	
9	8.619-739.0	ELBOW, 1/4NPT 45D STREET	1.000	ST	
10	8.627-956.0	WASHER, 5/8 FLT PLSTCNYL	3.000	ST	
11	8.627-629.0	SCREW, 10 X .75 PPNHMS HI LOW ST BLK ZN	4.000	ST	
12	8.630-215.0	PANEL, 3 SWITCH CONTROL	1.000	ST	230V
12	8.629-737.0	Panel switch control CMPS2	1.000	ST	120V
13	8.600-245.0	Coupler 1/4 QD	1.000	ST	
14	8.600-201.0	BOOT, 3/8 CIRCUIT BREAKER	2.000	ST	
15	8.600-720.0	Switch DPDT3-POSITION ROCKER	1.000	ST	
16	8.623-803.0	GASKET, SWITCH CARLING	2.000	ST	
17	8.600-714.0	Switch SPST 2-POSITION ROCKER	1.000	ST	
18	8.631-028.0	SWITCH DPST 2-POSITION ROCKER	1.000	ST	230V ONLY



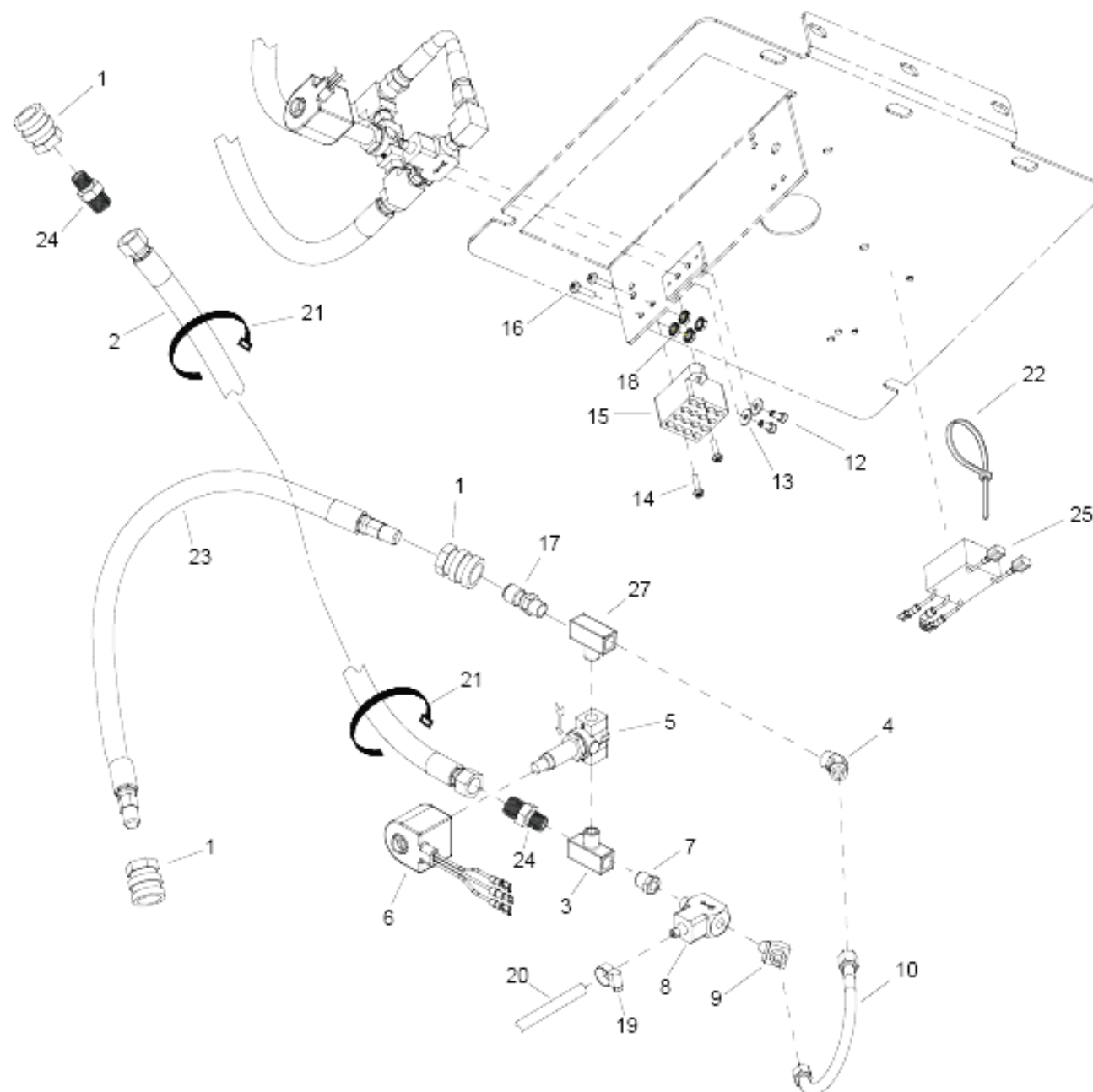
9040 DECALS

POS	Article no.	Description	Quantity	Unit
1	8.639-660.0	LABEL, WINDSOR COMPASS, CONTROL	1.000	ST
2	8.639-661.0	Label left COMPASS2	1.000	ST
3	8.639-662.0	Label right COMPASS2	1.000	ST
4	8.639-540.0	LABEL, WINDSOR LOGO DOMED	1.000	ST
6	8.600-287.0	CORD, 1/8" X 12~	1.000	ST
7	8.624-223.0	LABEL, WARNING	1.000	ST
8	8.639-663.0	LABEL, COMPASS, 230V, ON/OFF	1.000	ST



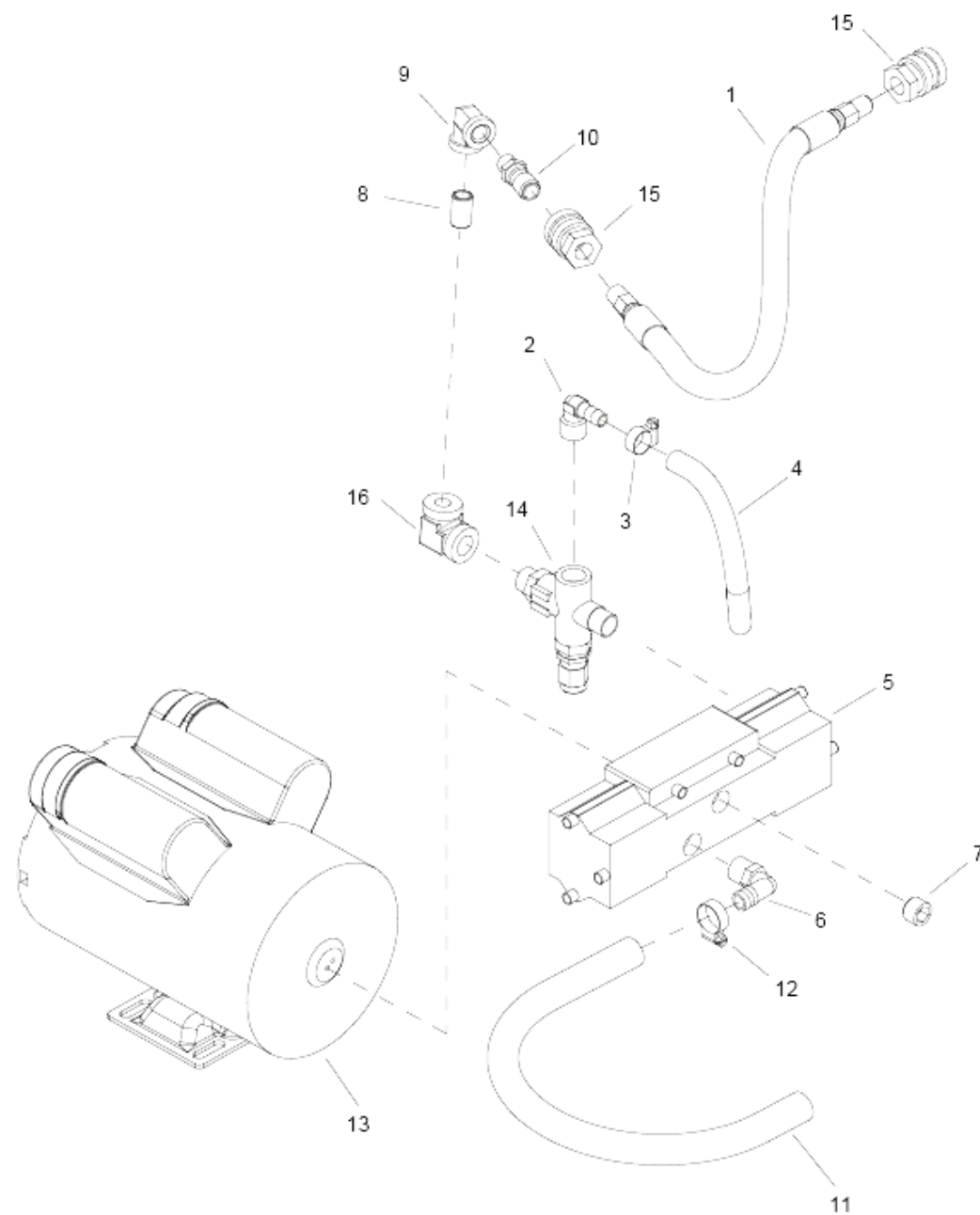
9050 SOLUTION TANK

POS	Article no.	Description	Quantity	Unit
-	8.630-032.0	TANK, SOL CMPS2 W/ PLT	1.000	ST
1	8.627-580.0	SCREW, 8-32 X .75 PHFLHMS	5.000	ST
2	8.633-447.0	DECK, PLATE ASM, 4", YLW	1.000	ST
3	8.633-345.0	TANK, SOL CMPS2K	1.000	ST
4	8.623-968.0	HOOK, HOSE STORAGE	1.000	ST
5	8.600-695.0	SCREW, 10-32 X .5 PHPNHMS	4.000	ST
6	8.622-473.0	SPRING, COMP, 12MM OD X 12.7MM	1.000	ST
7	8.627-665.0	SCREW, 5/16-18 X 1.5 SCHBTNHCS SS	1.000	ST
8	8.633-561.0	HOOK, UPPER, CORD YLW	1.000	ST
9	8.630-103.0	PLATE, DETENT, CORD HOOK	1.000	ST
10	8.630-213.0	CLIP, C 5/8, PLASTIC	2.000	ST
11	8.630-209.0	SCREW, 8-32 X 0.438 PHFLHTC BLK	10.000	ST
12	8.600-299.0	CLIP, C 1 1/2" PLASTIC	3.000	ST
13	8.630-199.0	HOSE HOOK,HLDER,TOOL,CMPS 2	1.000	ST
14	8.630-198.0	Tool holder CMPS 2	1.000	ST
15	8.627-629.0	SCREW, 10 X .75 PPNHMS HI LOW ST BLK ZN	8.000	ST
16	8.627-168.0	NUT, 10-32 HEX NYLOCK SS BLK ZNPLT	1.000	ST
17	8.619-792.0	HOSEBARB, 1/2MPT X 3/8 NYL DL	1.000	ST
18	8.626-069.0	HOSE ASM, FCT ADPTR X 60"	1.000	ST
19	8.630-259.0	HOSE, CLEAR, 3/4ID X 34"	1.000	ST
20	8.623-330.0	CLAMP, 1.25" WORM GEAR SS	1.000	ST
21	8.619-791.0	Hosebarb 1/2MPT X 1/2 POLY DL	1.000	ST
22	8.633-999.0	SCREW, 8-32 X 1.0 PHFLHMS SS BLKOX	1.000	ST
23	8.627-756.0	SCREW, 6-18 X .5 PHPNHMS SS TYPEA	1.000	ST
24	8.623-279.0	CHAIN,ASM, #10SS BD X 8"	1.000	ST
25	8.627-202.0	NUT, 8-32 HEXTHIN NYLOCK SS	1.000	ST



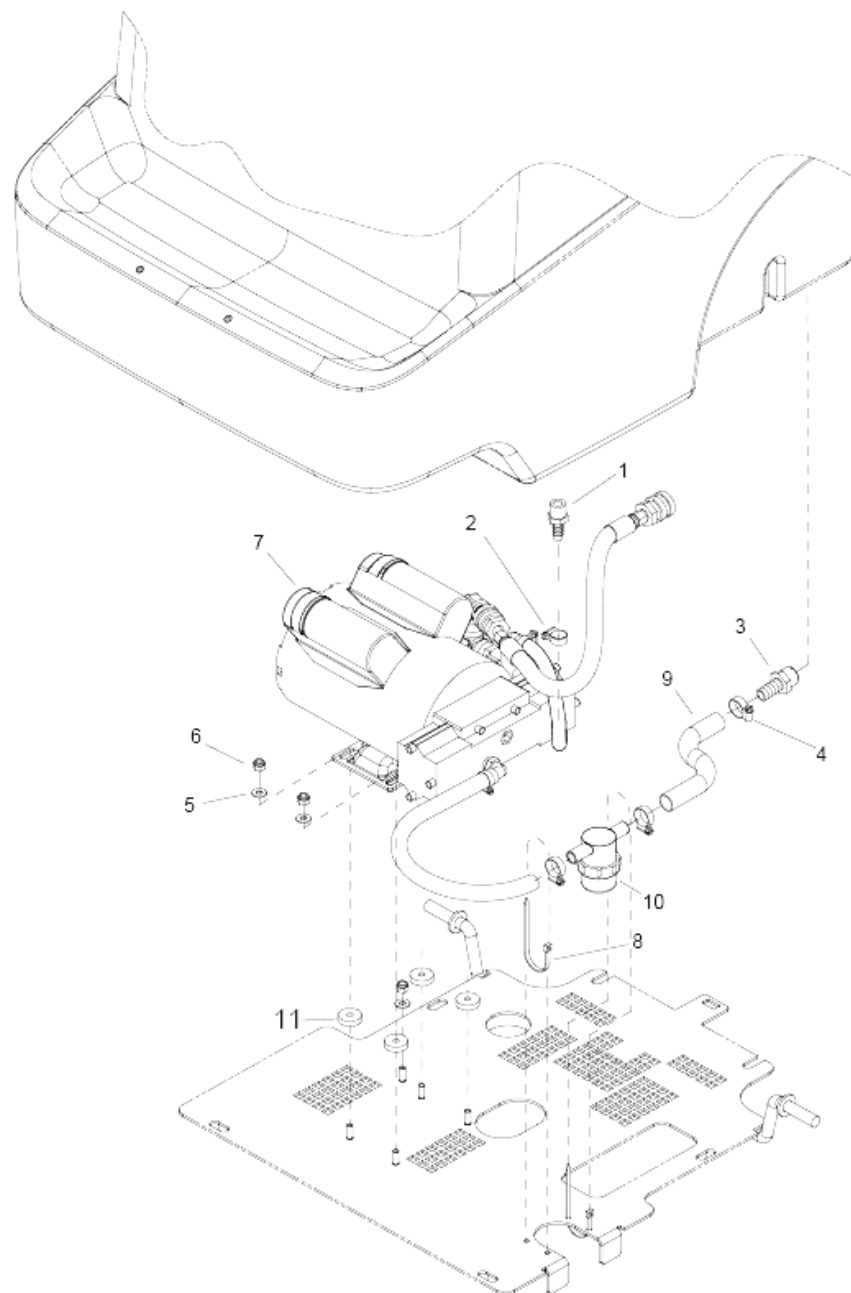
9060 SOLUTION-INJECTOR ASSEMBLY

POS	Article no.	Description	Quantity	Unit
1	8.630-241.0	QD, COUPLER, FOSTER 25FS	3.000	ST
2	8.630-257.0	HOSE PULSE, 3/8F X 3/8F X 45"	1.000	ST
3	8.619-773.0	TEE, 1/4 BRANCH	2.000	ST
4	8.618-046.0	ELL,1/4Px1/4T 45DEG BR	1.000	ST
5	8.630-376.0	VALVE, SOLENIOD, 1/4F 700PSI	1.000	ST
6	8.630-853.0	COIL, 230V, SOLENOID, CMPS2	1.000	ST
6	8.630-385.0	Coil solenoid 115V CMPS2	1.000	ST
7	8.619-730.0	BUSHING, 1/8 FPT X 1/4 MPT HEX	1.000	ST
8	8.630-377.0	INJECTOR KIT, EMA, 200-3C	1.000	ST
9	8.618-042.0	ELL, 1/8P X 1/4T 45 DEG.	1.000	ST
10	8.632-712.0	HOSE, 3/16 X 8 (1/4FT BS) MET	1.000	ST
11	8.619-737.0	ELBOW, 1/4FPT X 1/4FPT	1.000	ST
12	8.600-663.0	SCREW, 10-24 X .5 HHMS SS	2.000	ST
13	8.601-065.0	WASHER, .203 X .562 X .040 FLT	2.000	ST
14	8.600-649.0	SCREW, 8-32 X .75 PHPNHMS SS	2.000	ST
15	8.630-520.0	TERMINAL BLOCK, 115/230V	1.000	ST
16	8.627-398.0	SCREW, 10-32 X .75 PHPNHMS SS	2.000	ST
17	8.630-240.0	QD, NIPPLE, FOSTER 25MPB	1.000	ST
18	8.600-570.0	NUT, 10-32 HEXSTRW LK STL ZNPLT	4.000	ST
19	8.623-309.0	CLAMP, 1/4 ID HOSE	1.000	ST
20	8.629-583.0	HOSE, 1/4ID NYLOBRAID X 41"	1.000	ST
21	8.626-494.0	Cable tie 11.38" UL/CSA	6.000	ST
22	8.626-494.0	Cable tie 11.38" UL/CSA	1.000	ST
23	8.630-279.0	HOSE,PULSE,3/8MXFX29.5"	1.000	ST
24	8.618-813.0	NIP,3/8x1/4 HX BR	2.000	ST
25	8.630-856.0	ASM, FILTER MAIN, CMPS2E	1.000	ST



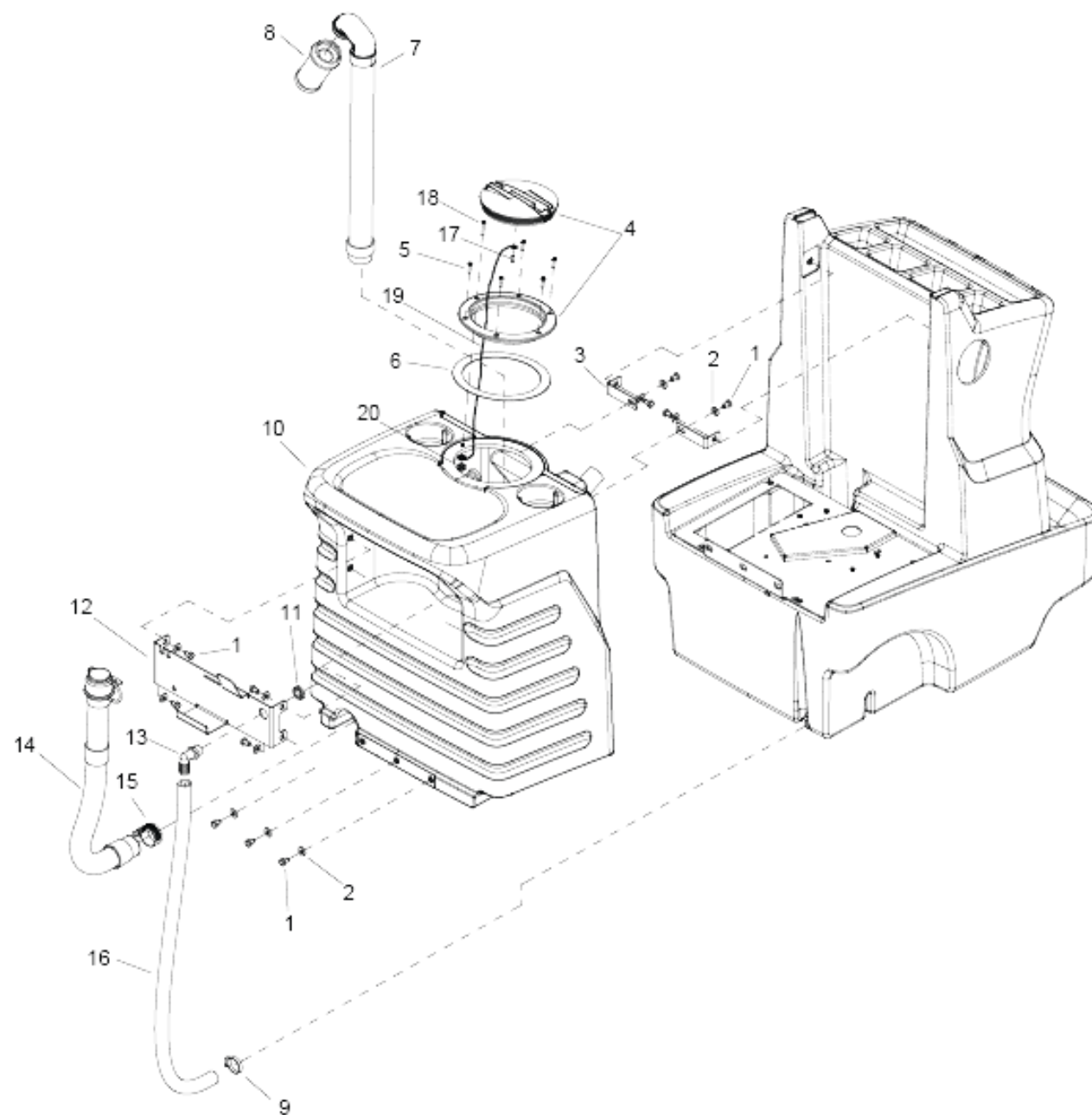
9070 SOLUTION PUMP 1

POS	Article no.	Description	Quantity	Unit
1	8.630-279.0	HOSE,PULSE,3/8MXFX29.5"	1.000	ST
2	8.619-761.0	HOSEBARB, 3/8MPTX3/8 90D DL	1.000	ST
3	8.623-309.0	CLAMP, 1/4 ID HOSE	1.000	ST
4	8.630-278.0	HOSE, 3/8 x 16" NYLOBRD	1.000	ST
5	8.630-282.0	Pump PUMPTEC, 700PSI	1.000	ST
5	8.630-810.0	PUMP, PUMPTEC, 700 PSI 230 VOLT	1.000	ST
6	8.631-755.0	HOSEBARB, 3/8 MPT X 1/2 90 BR	1.000	ST
7	8.619-052.0	PLUG, 3/8 SOCHD BR	4.000	ST
8	8.600-559.0	Nipple 1/4 CLOSE	1.000	ST
9	8.619-737.0	ELBOW, 1/4FPT X 1/4FPT	1.000	ST
10	8.630-240.0	QD, NIPPLE, FOSTER 25MPB	1.000	ST
11	8.624-028.0	HOSE, 1/2ID WIRE BOUND X 8"	1.000	ST
12	8.623-315.0	CLAMP, 3/8 HOSE (D-SLOT)	1.000	ST
13	8.630-272.0	MOTOR,700PSI,120/220V, PUMPTEC	1.000	ST
14	8.630-273.0	UNLOADER, 700PSI, PUMPTEC	1.000	ST
15	8.630-241.0	QD, COUPLER, FOSTER 25FS	2.000	ST
16	8.619-738.0	ELBOW, 3/8FPT X 1/4FPT	1.000	ST



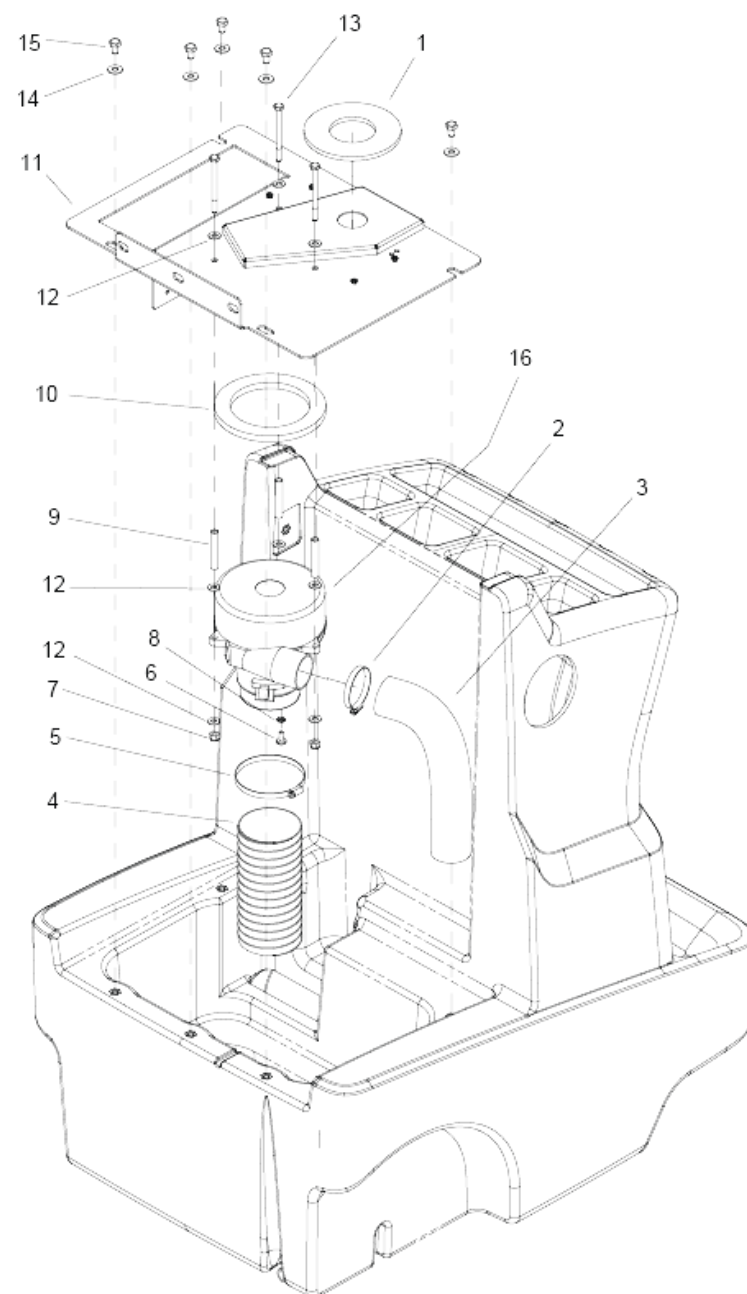
9080 SOLUTION PUMP 2

POS	Article no.	Description	Quantity	Unit	Remark
1	8.624-043.0	HOSEBARB, 3/8 MPT X 3/8 NYLON	1.000	ST	
2	8.623-309.0	CLAMP, 1/4 ID HOSE	1.000	ST	
3	8.619-791.0	Hosebarb 1/2MPT X 1/2 POLY DL	1.000	ST	
4	8.623-315.0	CLAMP, 3/8 HOSE (D-SLOT)	3.000	ST	
5	8.601-063.0	WASHER, 1/4 SS	5.000	ST	
6	8.600-581.0	NUT, 1/4-20 HEX NYLOCK SS	5.000	ST	
7	8.630-796.0	Pump ASM, 700 230V CMPS2	1.000	ST	COMPLETE
7	8.630-243.0	Pump Assembly 700 PSI 115V CMPS2	1.000	ST	COMPLETE
8	8.626-494.0	Cable tie 11.38" UL/CSA	2.000	ST	
9	8.630-277.0	HOSE,1/2 ID WIRE BOUNDX 14"L	1.000	ST	
10	8.634-087.0	STRAINER 1/2" HOSE 80 MESH	1.000	ST	
11	8.642-335.0	Washer 1/4" X 1" X 1/4", FLT NPRN BLK	4.000	ST	



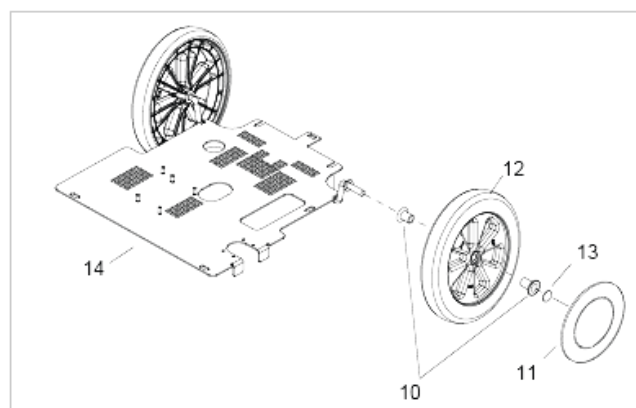
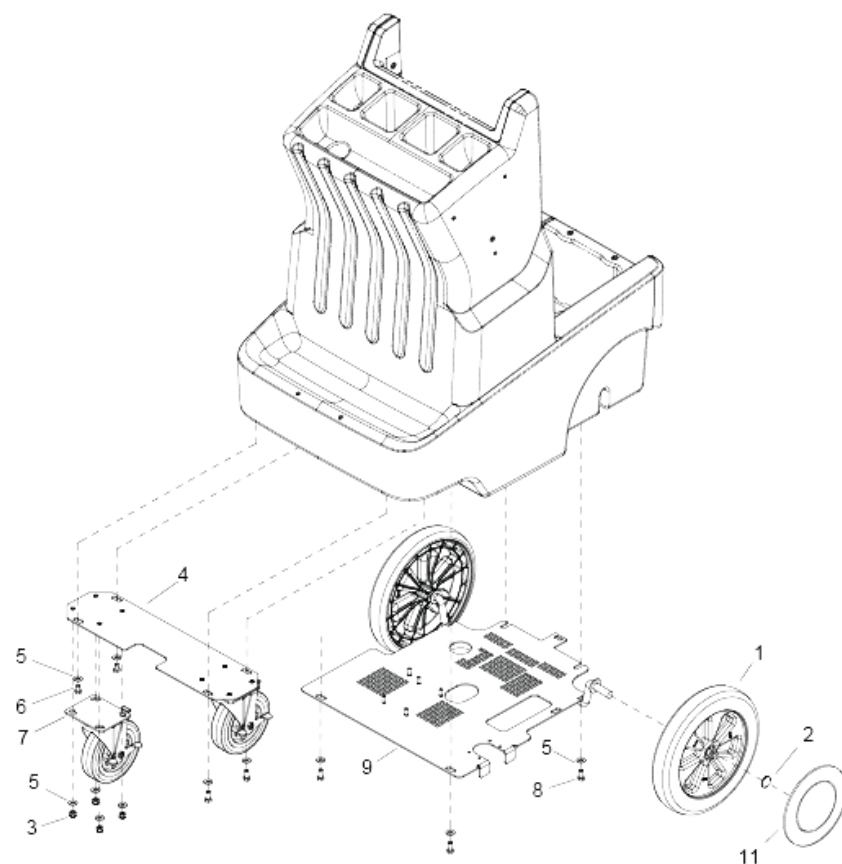
9090 RECOVERY TANK

POS	Article no.	Description	Quantity	Unit
1	8.627-704.0	SCREW, 5/16-18 X .5 HHCS SS NP	11.000	ST
2	8.601-067.0	WASHER, 5/16 FLT SS	11.000	ST
3	8.607-051.0	Bracket tank mount	1.000	ST
4	8.633-449.0	DECK PLATE ASM, 6", YLW	1.000	ST
5	8.627-580.0	SCREW, 8-32 X .75 PHFLHMS	6.000	ST
6	8.600-400.0	GASKET, TANK LID	1.000	ST
7	8.603-325.0	PIPE ASM, VACUUM STACK	1.000	ST
8	8.619-984.0	Cage float -1Ball	1.000	ST
9	8.623-311.0	CLAMP, 1.0" WORM GEAR	1.000	ST
10	8.630-035.0	TANK, REC EURO BLK	1.000	ST
11	8.627-185.0	NUT, 1/2-13 LK NYL BLK	1.000	ST
12	8.629-656.0	BRACKET, UTILITY MOUNT, 2.0	1.000	ST
13	8.624-079.0	HOSEBARB, 1/2MPT X3/4 90D	1.000	ST
14	8.633-470.0	DRAIN HOSE, CMPS, YLW	1.000	ST
15	8.617-705.0	CLAMP, HOSE #20	1.000	ST
16	8.630-259.0	HOSE, CLEAR, 3/4ID X 34"	1.000	ST
17	8.627-756.0	SCREW, 6-18 X .5 PHPNHSMS SS TYPEA	1.000	ST
18	8.633-999.0	SCREW, 8-32 X 1.0 PHFLHMS SS BLKOX	1.000	ST
19	8.623-279.0	CHAIN,ASM, #10SS BD X 8"	1.000	ST
20	8.627-202.0	NUT, 8-32 HEXTHIN NYLOCK SS	1.000	ST



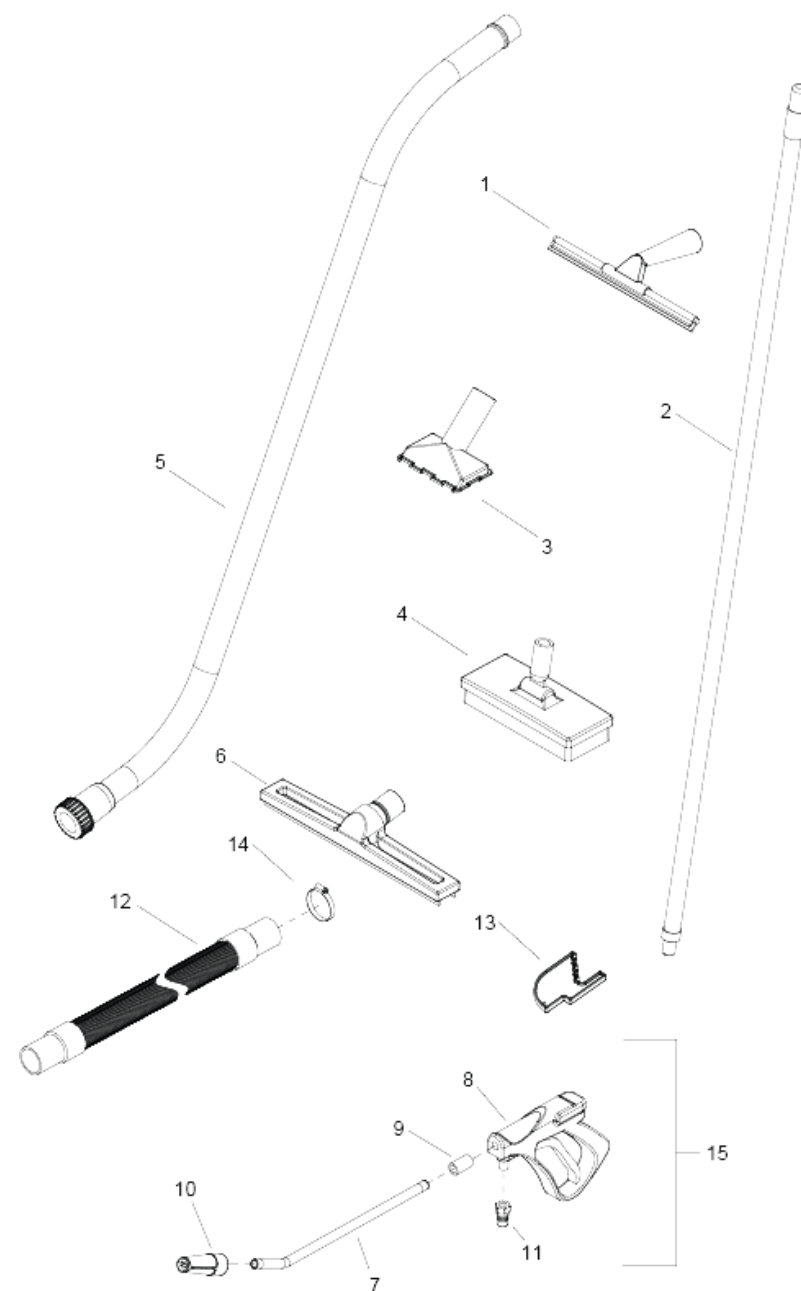
9100 VACUUM

POS	Article no.	Description	Quantity	Unit	Remark
-	8.613-533.0	BRUSH SET,230V VAC MTR WINDSOR (2)	1.000	ST	230V
-	8.613-532.0	X-REF TO 9.848-176.0	1.000	ST	115V
1	8.623-787.0	GASKET, 5.0ODX2.38IDX.25T	1.000	ST	
2	8.600-238.0	Clamp 2.25" WORM GEAR	1.000	ST	
3	8.628-118.0	HOSE, 2.0 VAC EXHAUST X 17"	1.000	ST	
4	8.624-024.0	HOSE, 3.15IDX7.0L VENT	1.000	ST	
5	8.623-326.0	CLAMP, 3.5" WORM GEAR	1.000	ST	
6	8.627-437.0	X-REF TO 8.627-498.0 9/11	1.000	ST	
7	8.600-581.0	NUT, 1/4-20 HEX NYLOCK SS	3.000	ST	
8	8.601-064.0	Washer #10 LOCK EXT STAR SS	1.000	ST	
9	8.620-197.0	VAC SPACER 2 1/4 II STAGE	3.000	ST	115V
9	8.620-195.0	VAC SPACER 3 1/8	3.000	ST	230V
10	8.600-376.0	GASKET, VAC MTR	1.000	ST	
11	8.629-614.0	COVER, VAC MOTOR, CMPS2	1.000	ST	
12	8.601-063.0	WASHER, 1/4 SS	9.000	ST	
13	8.627-672.0	SCREW, 1/4-20 X 4.25 HHCS STL GR5 ZNPLT	3.000	ST	230V
13	8.600-701.0	SCREW, 1/4-20 X 3.25 HHCS STL GR5 ZNPLT	3.000	ST	115V
14	8.601-067.0	WASHER, 5/16 FLT SS	5.000	ST	
15	8.627-704.0	SCREW, 5/16-18 X .5 HHCS SS NP	5.000	ST	
16	8.630-384.0	Vac motor 120V 5.7 2ST TD CMPS 2	1.000	ST	115V
16	8.620-208.0	Vacuum 116859-13 220V SM 3 STG	1.000	ST	230V



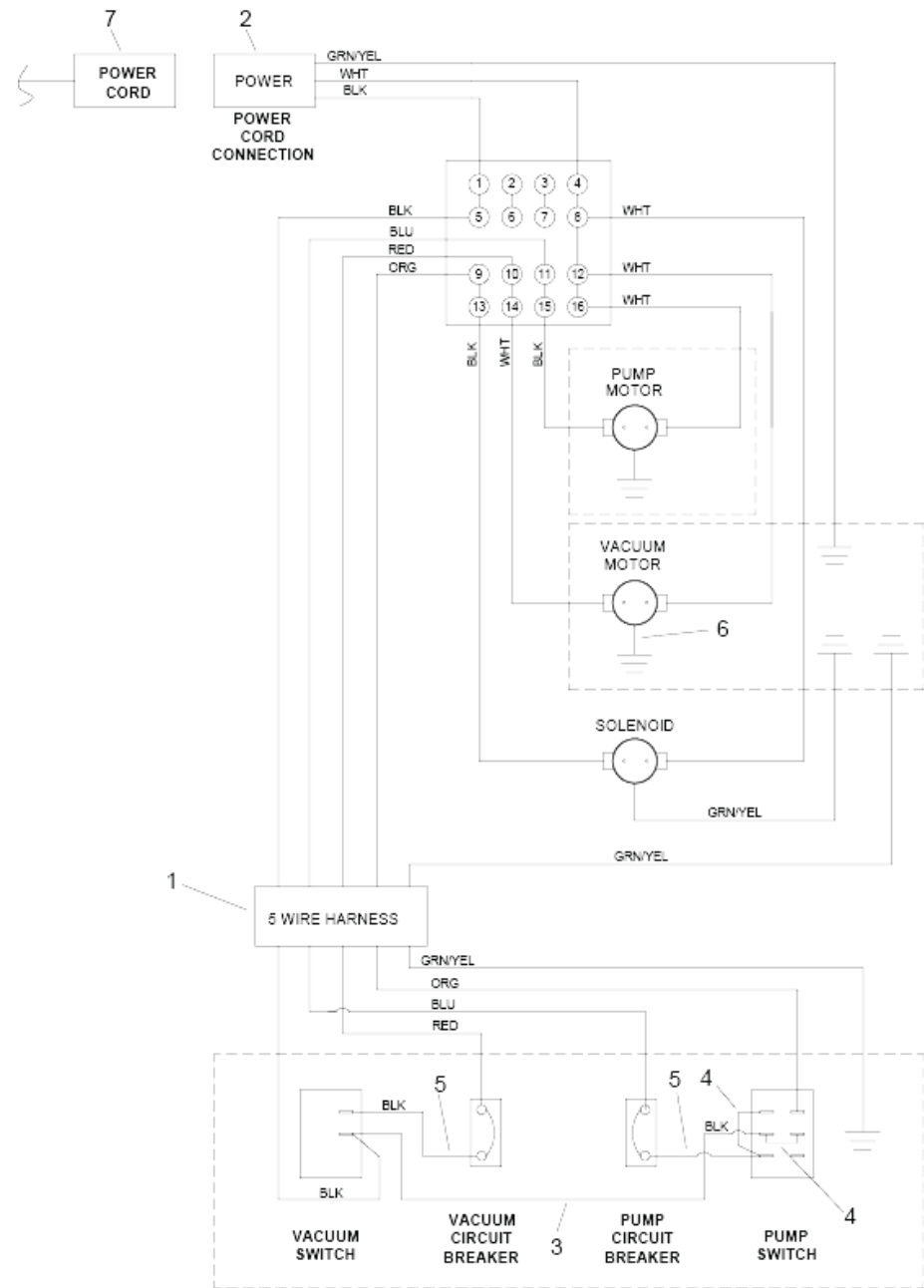
9110 WHEELS & FRAME

POS	Article no.	Description	Quantity	Unit	Serial number from
1	8.630-979.0	Wheel 12" x 2.25"	2.000	ST	(2*)
2	8.600-166.0	HUBCAP, 5/8" SHAFT	2.000	ST	(2*)
3	8.627-083.0	NUT, 5/16-18 HEX NYLOCK SS	8.000	ST	
4	8.607-880.0	PLATE, MOUNT CASTER	1.000	ST	
5	8.601-067.0	WASHER, 5/16 FLT SS	16.000	ST	
6	8.627-678.0	SCREW, 5/16-18 X .75 HHCS SS	4.000	ST	
7	8.623-262.0	Castor 6" DIAx 4.63	2.000	ST	
8	8.627-704.0	SCREW, 5/16-18 X .5 HHCS SS NP	4.000	ST	
9	8.641-313.0	Frame pump wheels	1.000	ST	(2*)
10	8.632-386.0	BUSHING, .507 X .634 X .75 FLG	4.000	ST	
11	8.630-007.0	HUBCAP, 9.75" WHEEL, BLACK	2.000	ST	
12	8.632-384.0	WHEEL 12" X 1.375	2.000	ST	
13	8.627-138.0	NUT, 1/2 DOME PUSH STL ZNPLT	2.000	ST	
14	8.629-613.0	FRAME, PUMP/WHEEL MNT, CMPS2	1.000	ST	



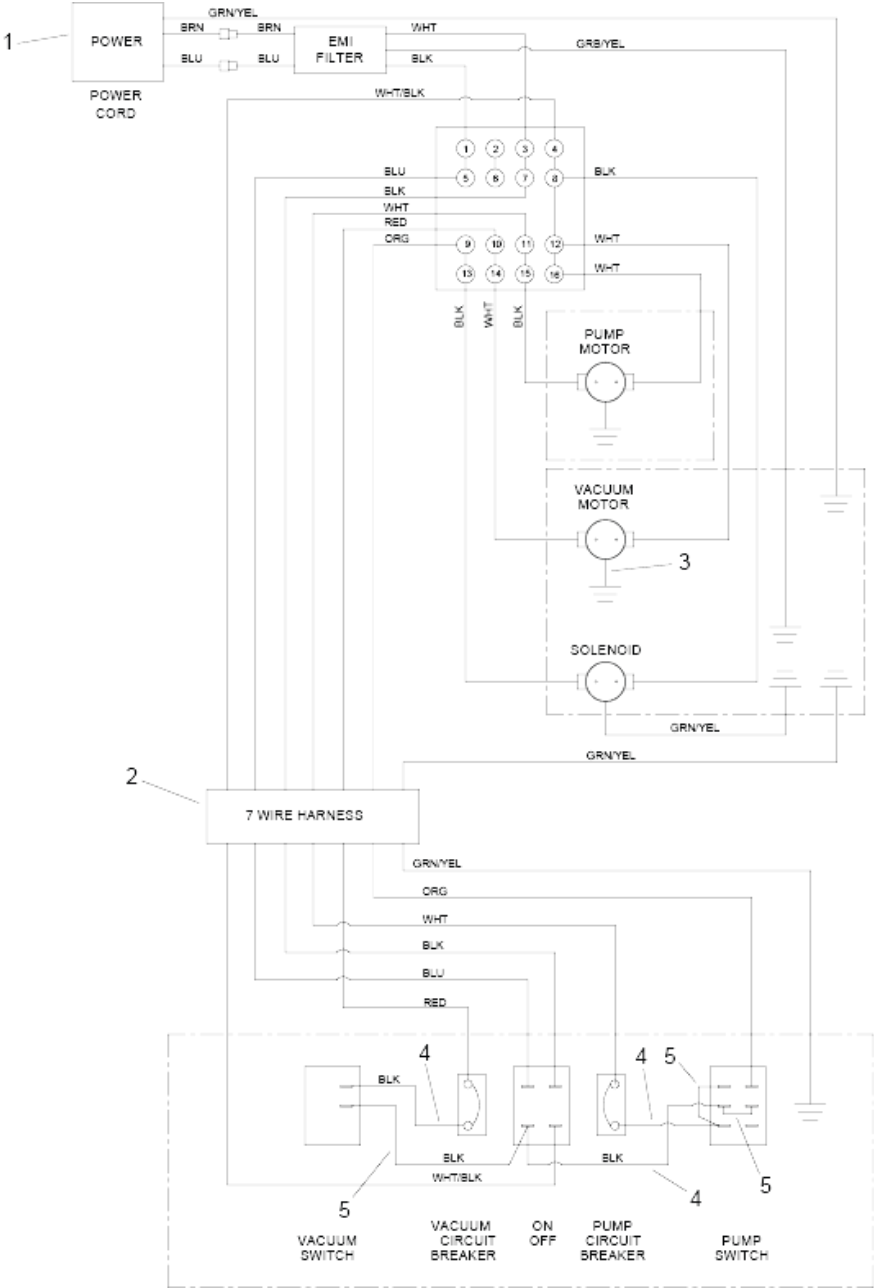
9120 TOOLS-STANDARD

POS	Article no.	Description	Quantity	Unit	Remark
-	8.620-035.0	HOSE ASM, 25' 1/4" ID GRY	1.000	ST	NOT SHOWN
-	8.624-193.0	KIT, SQUEEGEE BLADES, WHEELS, & SCREWS	1.000	ST	
-	8.629-041.0	Nozzle replacement JET	1.000	ST	
-	8.623-420.0	Cord set yellow 14/3X50' GFCI	1.000	ST	NOT SHOWN
-	8.620-216.0	Velcro strip	1.000	ST	NOT SHOWN
1	8.625-766.0	Tool hand squeegee	1.000	ST	
2	8.625-765.0	Tool scrub brush handle	1.000	ST	
3	8.625-764.0	Tool gulper	1.000	ST	
4	8.625-767.0	Tool tile brush	1.000	ST	
5	8.625-768.0	Tool lance ALUMINUM	1.000	ST	
6	8.625-762.0	Tool WHEELED SQUEEGEE	1.000	ST	
7		LANCE, TUBE, 1/4", 14" LONG	1.000	ST	
8		GUN, PRESSURE WASH PMPTC	1.000	ST	
9		BUSHING, SPRAY GUN	1.000	ST	
10		NOZZLE, ADJUSTABLE, 027 JET	1.000	ST	
11	8.600-558.0	Nipple 1/4 FPT QD	1.000	ST	
12		HOSE ASM, 1.5 BLK VAC X 30'	1.000	ST	
12	8.624-018.0	HOSE ASM, 1.5" X 30' BLK VAC	1.000	ST	
13		TOOL, DOOR WEDGE	1.000	ST	
14	8.600-240.0	Clamp 2.0" WORM GEAR X .312W	1.000	ST	
15		SPRAY GUN, COMPASS 2	1.000	ST	COMPLETE



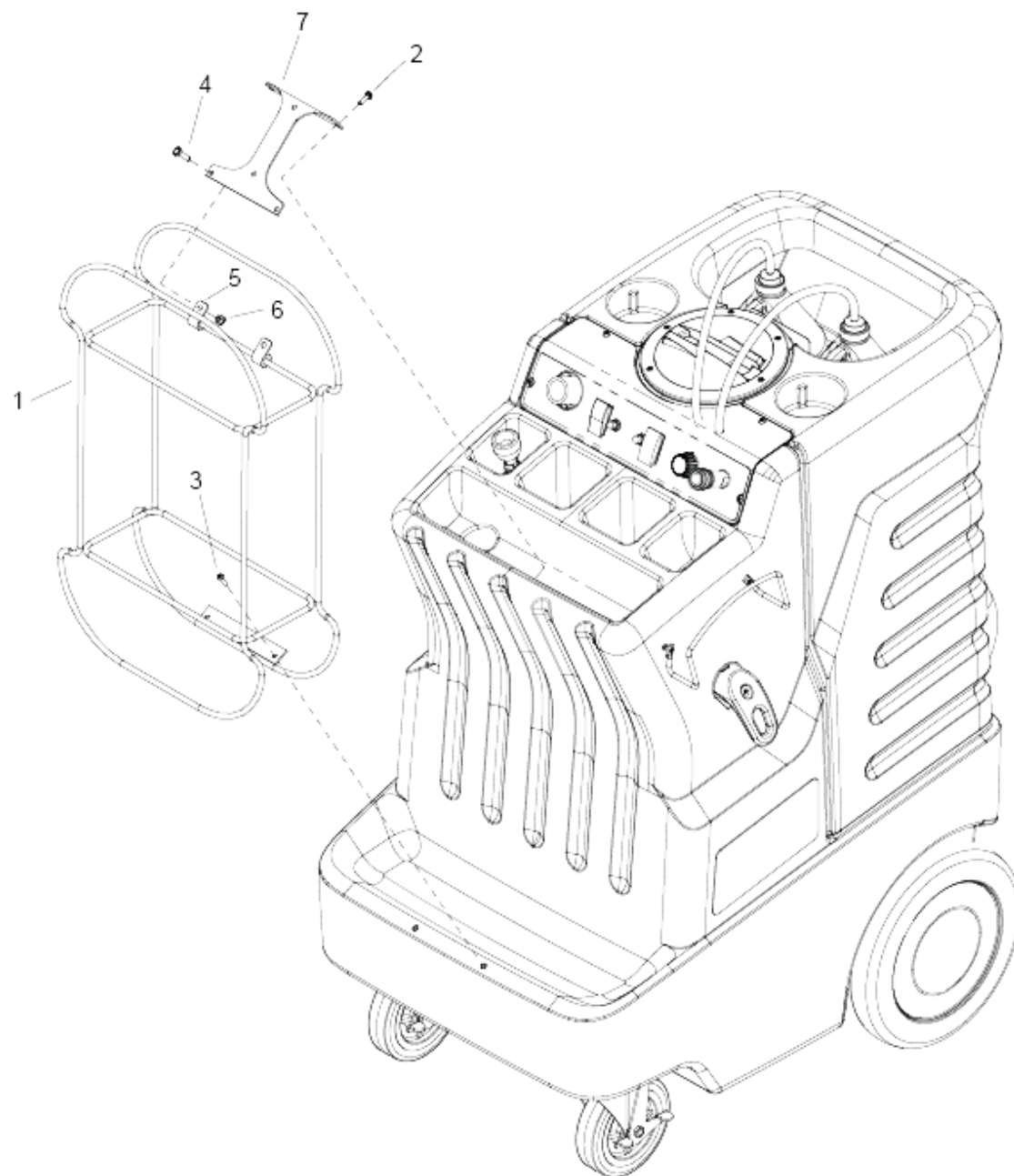
9130 WIRING-DIAGRAM-120V

POS	Article no.	Description	Quantity	Unit
1		HARNESS, MAIN, CMPS2	1.000	ST
2		CORD SET, 14/3 X 31, CMPS2	1.000	ST
3		WIRE, 6" BLK/14 76050 X 76029	1.000	ST
5	8.626-857.0	WIRE, 3" BLK/14 76029 X 76029	2.000	ST
6		WIRE, 8" GRN/18 76008 X 76008	1.000	ST
7	8.623-420.0	Cord set yellow 14/3X50' GFCI	1.000	ST



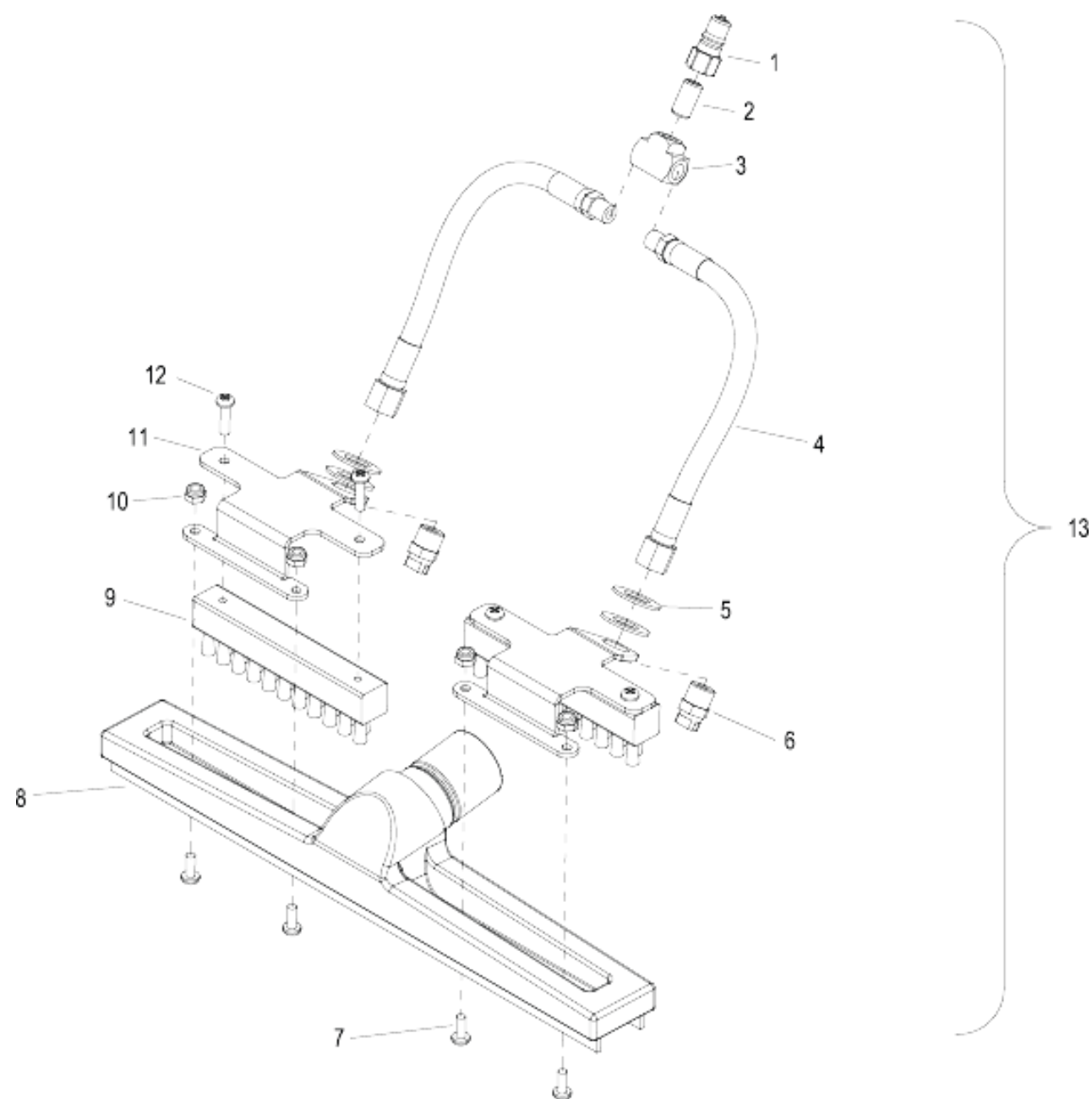
9140 WIRING-DIAGRAM-230V

POS	Article no.	Description	Quantity	Unit
1	8.623-433.0	Cable complete 1.5MM2 X 50' EURO	1.000	ST
2		HARNESS, MAIN, 230V	1.000	ST
3		WIRE, 8" GRN/18 76008 X 76008	1.000	ST
4		WIRE, 4", BLK/14 76029 X 76029	3.000	ST
5		WIRE, 4", BLK/14 76050 X 76029	3.000	ST



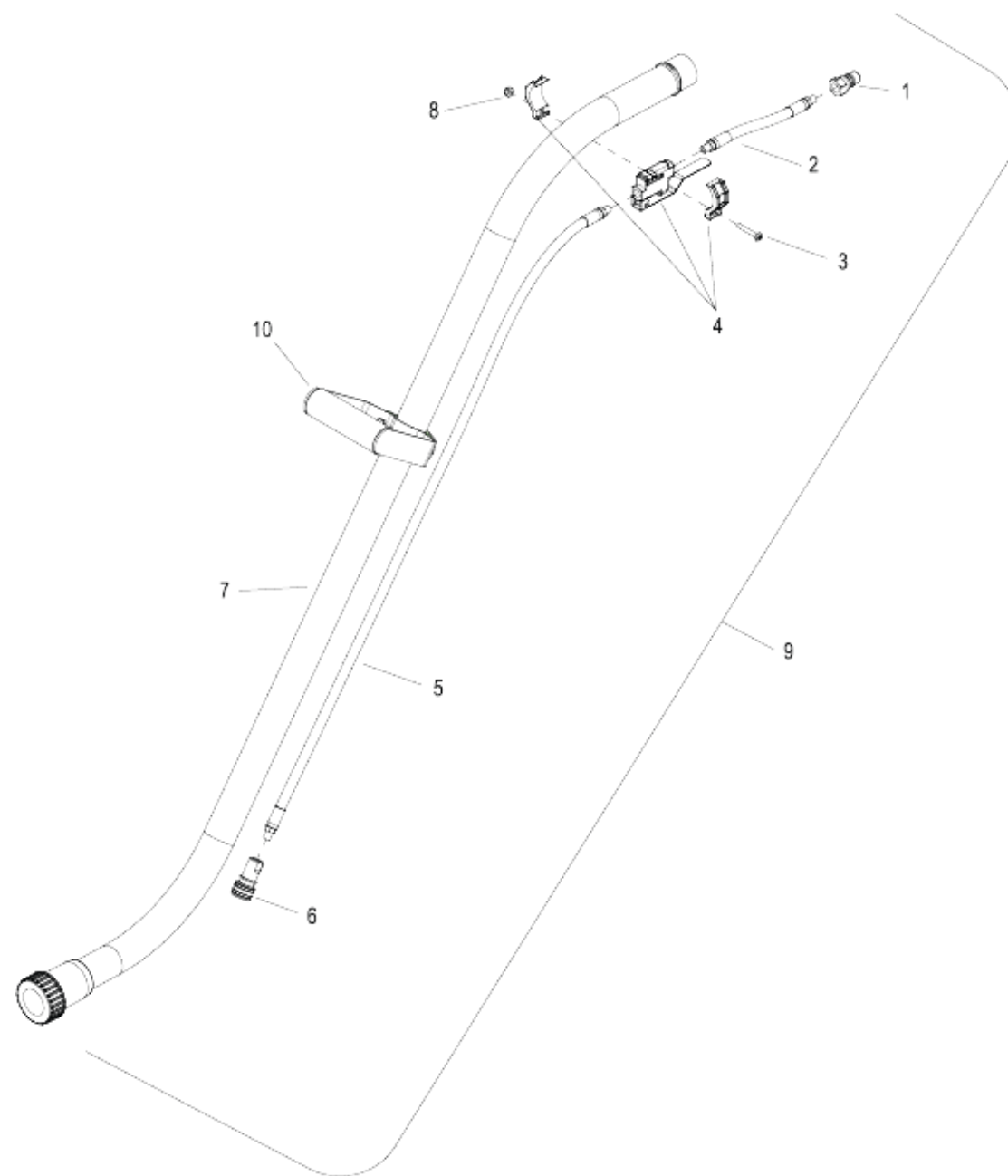
9150 VACUUM HOSE RACK-OPTION

POS	Article no.	Description	Quantity	Unit
1		HOSE RACK	1.000	ST
2	8.627-660.0	SCREW, 10-12 X .75 PHTRHSMS SS TYPEA	3.000	ST
3	8.600-659.0	SCREW, 10-32 X .5 PHPNHMS SS NP	2.000	ST
4	8.627-521.0	SCREW, 1/4-20 X .5 PHPNHTF BLK DL	2.000	ST
5	8.627-025.0	CLAMP, 1/4X1/4 BLT VIN DP	2.000	ST
6	8.600-568.0	NUT, 1/4-20 HEX NYLOCK STL GR2 ZNPLT	2.000	ST
7		BRACKET, TOP HOSE RACK	1.000	ST



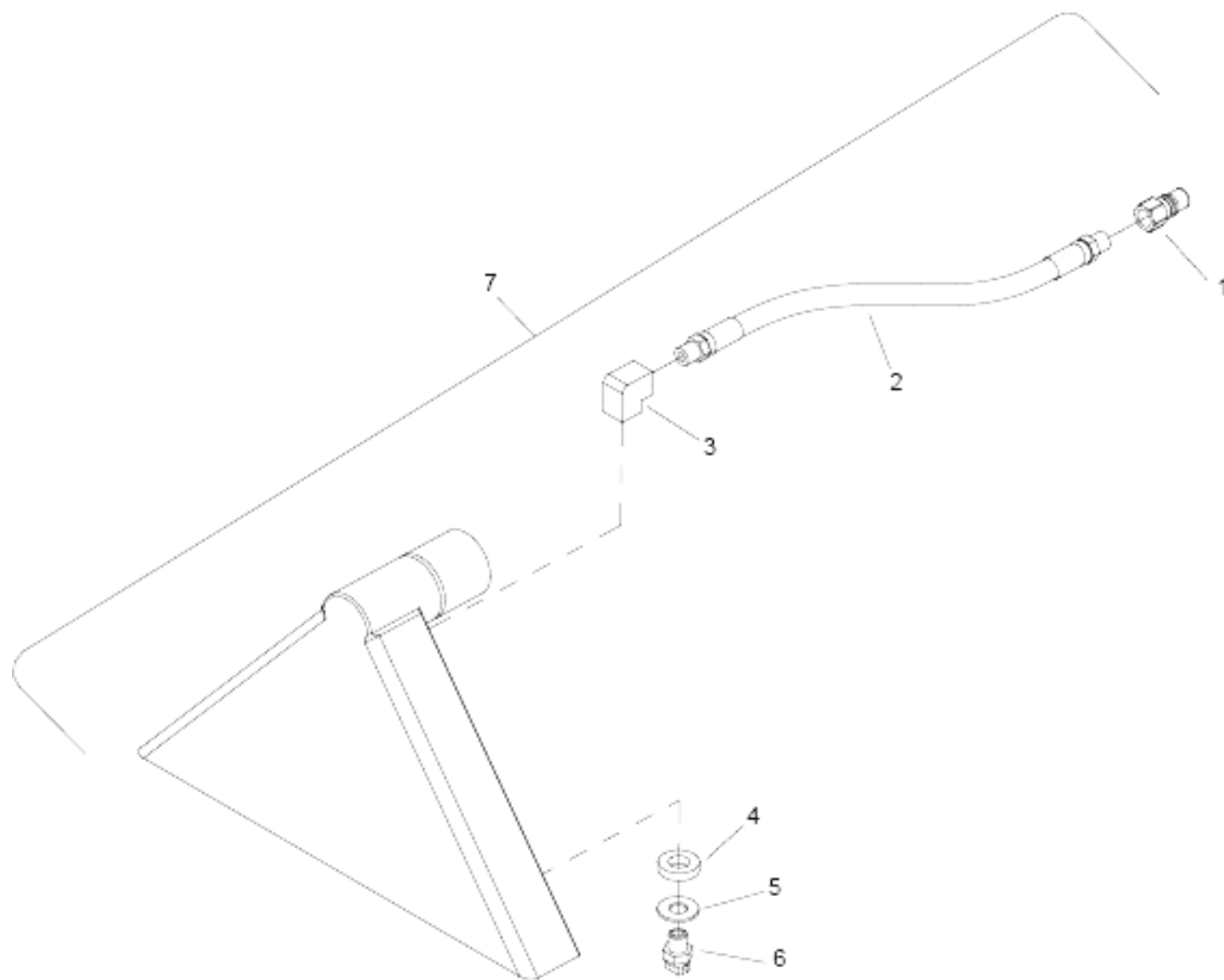
9160 TOOLS-GROUT CLEANER-OPTION

POS	Article no.	Description	Quantity	Unit
1	8.620-082.0	Nipple 1/8	1.000	ST
2	8.624-772.0	NIPPLE, 1/8 CLOSE	1.000	ST
3		TEE,1/8 BR	1.000	ST
4		HOSE, 1/8MPTX1/4FPTX12L	2.000	ST
5	8.609-023.0	WASHER, 9/16 SS	4.000	ST
6		JET, 1/4 MEG 15015	2.000	ST
7	8.600-659.0	SCREW, 10-32 X .5 PHPNHMS SS NP	4.000	ST
8		TOOL, GROUT CLEANER	1.000	ST
9		BRUSH, FLOOR TOOL, GROUT	2.000	ST
10	8.627-099.0	NUT, 10-32 HEX NYLOCK SS	4.000	ST
11		BRKT, BRUSH MOUNT, GROUT	2.000	ST
12	8.600-687.0	SCREW, 10 X .5 PHPNHSMS TYPEB BLK	4.000	ST
13	8.600-048.0	KIT, GROUT CLEANER	1.000	ST



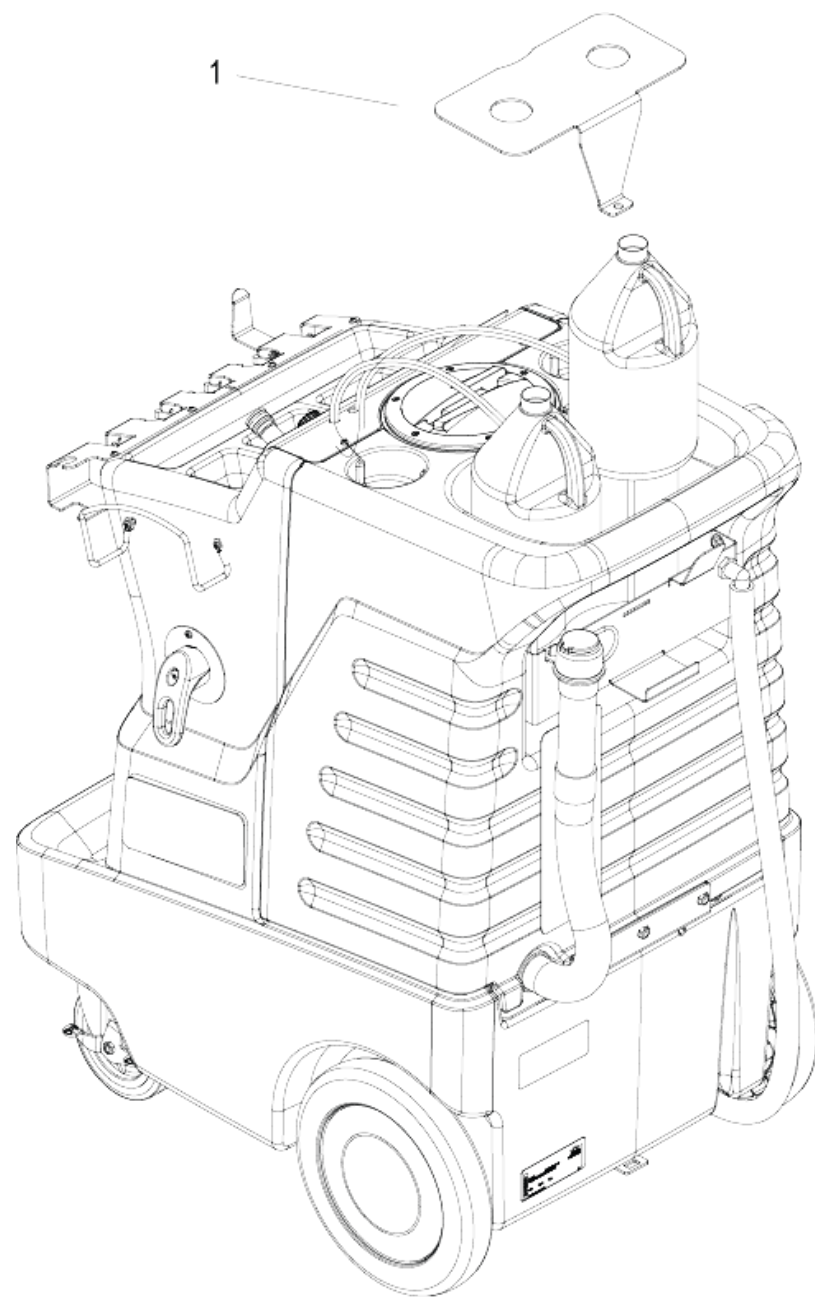
9170 TOOLS-HIGH PRESSURE WAND-OPTION

POS	Article no.	Description	Quantity	Unit	Remark
1	8.600-558.0	Nipple 1/4 FPT QD	1.000	ST	
2		HOSE, 1/8MPT X 1/4MPT X 7.0L	1.000	ST	
3	8.627-441.0	SCREW, 10-32 X 1.25 PHPNHMS SS	1.000	ST	
4		VALVE, 500 PSI W/CLAMP	1.000	ST	
5	8.624-020.0	HOSE, 1/8MPT X 1/8MPT X 38L	1.000	ST	
6	8.620-081.0	Nipple 1/8 FPT QD FEM BRASS	1.000	ST	
7	8.625-768.0	Tool lance ALUMINUM	1.000	ST	
8	8.627-099.0	NUT, 10-32 HEX NYLOCK SS	1.000	ST	
9	8.604-130.0	KIT, HIGH PRESSURE WAND	1.000	ST	COMPLETE
10	8.613-576.0	HANDLE GRIP ASSEMBLY 1.5"T	1.000	ST	



9180 TOOLS-CARPET TOOL-OPTION

POS	Article no.	Description	Quantity	Unit
1	8.620-082.0	Nipple 1/8	1.000	ST
2		HOSE, 1/8MPTX1/8MPT	1.000	ST
3	8.629-622.0	ELBOW, 1/8 FPT	1.000	ST
6		JET, 1/4 H-VV 11003	1.000	ST
7	8.628-455.0	TOOL, CARPET CLEANER	1.000	ST



9190 CHEMICAL LOCK-OPTION

POS	Description	Quantity	Unit
1	BRKT, CHEMICAL LOCK	1.000	ST

Serial Number

REF. NO.	MODEL: SERIAL #
1	10070560002172, 10070570000033
2	10070560002538, 10070570000037