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
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.
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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.

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 GFCl does not reset. Check circuit breakers or outlet. If circuit breaker is not tripped and unit will not reset, contact local service center.

Note: Adaptors are not allowed in Canada.
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.
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 manoeuvre 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** - Dangers ou méthodes dangereuses qui POURRAIENT provoquer de graves blessures ou entraîner la mort.

- **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

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DIMENSION/CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical</td>
<td>120V, 14A, 60HZ</td>
</tr>
<tr>
<td></td>
<td>230V, 7A, 50HZ</td>
</tr>
<tr>
<td>Electric Pump Motor</td>
<td>1/2hp, 1750rpm</td>
</tr>
<tr>
<td>Solution Pump</td>
<td>700psi (48 bars), Axial plunger</td>
</tr>
<tr>
<td>Electric Vacuum Motor</td>
<td>2stage, 1.25hp (2.80m3/min.)</td>
</tr>
<tr>
<td>Water lift</td>
<td>82 in. (208 cm)</td>
</tr>
<tr>
<td>Solution Capacity</td>
<td>29 gallons (111L)</td>
</tr>
<tr>
<td>Recovery Capacity</td>
<td>19 gallons (70L)</td>
</tr>
<tr>
<td>Wheels -Front (2)</td>
<td>6 in. dia. (15.24cm) x 1.5</td>
</tr>
<tr>
<td>-Rear (2)</td>
<td>12 in. dia. (30.48cm)x 1.75</td>
</tr>
<tr>
<td>Dimensions - Weight</td>
<td>205 lb. (93kg)</td>
</tr>
<tr>
<td>Dimensions - Length</td>
<td>36 in. (91.4cm)</td>
</tr>
<tr>
<td>Dimensions - Height</td>
<td>43 in. (109.2cm)</td>
</tr>
<tr>
<td>Dimensions - Width</td>
<td>24.75 in. (62.87cm)</td>
</tr>
<tr>
<td>Power Cable</td>
<td>50 ft. (15.2m) 14 gauge</td>
</tr>
</tbody>
</table>

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
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
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


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 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 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
Maintenance

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

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.

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.
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**
- **CAM & BEARING**
  - 86311080 120V
  - 86305510 230V
- **PLUNGER & SEALS KIT**
  - 86201080
- **VALVE & O-RING KIT (BOTH SIDES)**
  - 86201030
**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:]

**WARNING:**

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

![AVERTISSEMENT:]

**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.

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

### Trouble Shooting

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loss of Power</td>
<td>Dead electrical circuit</td>
<td>Check building circuit breaker or fuse box</td>
</tr>
<tr>
<td></td>
<td>Faulty power cord</td>
<td>Replace</td>
</tr>
<tr>
<td></td>
<td>GFI breaker tripped</td>
<td>Reset breaker on power cord</td>
</tr>
<tr>
<td>Electrical shock</td>
<td>Equipment not grounding</td>
<td>Follow grounding instructions exactly</td>
</tr>
<tr>
<td></td>
<td>Receptacle not grounded</td>
<td>Contact an electrician to check building’s wiring</td>
</tr>
<tr>
<td></td>
<td>Internal wiring problem</td>
<td>Have a trained service technician check machine’s wiring</td>
</tr>
<tr>
<td>Vac motor speed varies or doesn’t run</td>
<td>Worn motor brushes</td>
<td>Replace</td>
</tr>
<tr>
<td></td>
<td>Motor worn out</td>
<td>Replace</td>
</tr>
<tr>
<td></td>
<td>Faulty switch</td>
<td>Replace</td>
</tr>
<tr>
<td>Loss of Vacuum</td>
<td>Loose vacuum dome</td>
<td>Center and seal dome over tank</td>
</tr>
<tr>
<td></td>
<td>Vacuum circuit breaker tripped</td>
<td>Reset breaker</td>
</tr>
<tr>
<td></td>
<td>Crack in dome of poor joint</td>
<td>Replace or repair using acrylic plastic cement only</td>
</tr>
<tr>
<td></td>
<td>Lint or dirt clogging vacuum screen</td>
<td>With power off, clean screen</td>
</tr>
<tr>
<td></td>
<td>Loose cuffs on vacuum hose</td>
<td>Tighten cuffs turning counterclockwise</td>
</tr>
<tr>
<td></td>
<td>Vacuum motor seals leaking</td>
<td>Replace</td>
</tr>
<tr>
<td></td>
<td>Floor tool vacuum chamber clogged</td>
<td>Wash out with hose, Pick lint out with a wire</td>
</tr>
<tr>
<td></td>
<td>Vacuum motor, hose, or dome gasket</td>
<td>Replace</td>
</tr>
<tr>
<td>Pump runs no solution</td>
<td>Pump inlet screen plugged</td>
<td>Clean inlet screen</td>
</tr>
<tr>
<td></td>
<td>Pump circuit breaker tripped</td>
<td>Reset breaker</td>
</tr>
<tr>
<td></td>
<td>Faulty pump switch</td>
<td>Call for service</td>
</tr>
<tr>
<td></td>
<td>Faulty pump motor</td>
<td>Call for service</td>
</tr>
<tr>
<td></td>
<td>Pump air locked</td>
<td>Press trigger to open valve on cleaning wand to relieve air</td>
</tr>
<tr>
<td></td>
<td>Internal or external solution line damaged and leaking</td>
<td>Replace</td>
</tr>
<tr>
<td>Pump runs, loss of pressure</td>
<td>Jet orifice on cleaning wand is too large</td>
<td>Total jet opening for 100 psi should be .06 to .08</td>
</tr>
<tr>
<td></td>
<td>Internal pump components wearing out</td>
<td>Replace, see pump kit components (pg 21)</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check valves in pump head for particles or cuts in seals</td>
<td>Take piston from BPR and lubricate with Super-lube. If problem still exists change BPR kit</td>
</tr>
<tr>
<td>Pump will not run</td>
<td>Unit not plugged in</td>
<td>Connect unit to 3 prong grounded outlet</td>
</tr>
<tr>
<td></td>
<td>Loose wiring</td>
<td>See dealer</td>
</tr>
<tr>
<td>Solution hose fitting hard to connect</td>
<td>Corrosion on fittings</td>
<td>Clean with steel wool. Soak in acetic acid (white vinegar). Lubricate lightly with silicone base lubricant.</td>
</tr>
</tbody>
</table>
Suggested Spare Parts

- 86241930 KIT, SQUEEGEE BLADES
- 86301920 NOZZLE

Diagram:
- 86199840 FLOAT SCREEN CAGE ASSY
- 86135330 BRUSH SET 230V VAC
- 86135320 BRUSH SET 120V VAC
- 86300070 HUBCAP
- 86323840 WHEEL
- 86323860 BUSHING
- 86271380 NUT
- 86305460 STRAINER
- 86305460 STRAINER
- 86232620 CASTOR
- 86398820 Operator Manual CMPS2