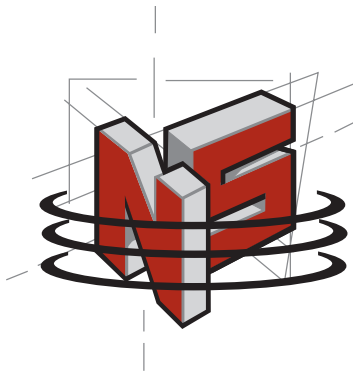




NuSource

MANUFACTURERS FOR THE COMMERCIAL CLEANING INDUSTRY

Operator and Parts Manual



Self Contained Carpet Extractor

NU15SCE

Date Purchased: _____

Purchased From: _____

Serial Number: _____

NuSource • 1001 Brown Avenue • Toledo, Ohio 43607
866.439.0540 • Fax 800.445.5056 • www.nusourcecorp.com

MACHINE DATA LOG/OVERVIEW

MODEL _____

DATE OF PURCHASE _____

SERIAL NUMBER _____

SALES REPRESENTATIVE # _____

DEALER NAME _____

OPERATIONS GUIDE NUMBER _____

PUBLISHED

YOUR DEALER

Name: _____

Address: _____

Phone Number: _____

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HOW TO USE THIS MANUAL

This manual contains the following sections:

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

The HOW TO USE THIS MANUAL section will tell you how to find important information for ordering correct repair parts.

Parts may be ordered from authorized dealers. When placing an order for parts, the machine model and machine serial number are important. Refer to the MACHINE DATA box which is filled out during the installation of your machine. The MACHINE DATA box is located on the inside of the front cover of this manual.

MODEL	_____
DATE OF PURCHASE	_____
SERIAL NUMBER	_____
SALES REPRESENTATIVE #	_____
DEALER NAME	_____
OPERATIONS GUIDE NUMBER	_____
PUBLISHED	_____

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

The SAFETY section contains important information regarding hazard or unsafe practices of the machine. Levels of hazards is identified that could result in product or personal injury, or severe injury resulting in death.

The OPERATIONS section is to familiarize the operator with the operation and function of the machine.

The MAINTENANCE section contains preventive maintenance to keep the machine and its components in good working condition. They are listed in this general order:

- Periodic
- Daily/Regular

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** – column indicates the first machine the part number is applicable to. When the machine design has changed, this column will indicate serial number of applicable machine. The main illustration shows the most current design of the machine. The boxed illustrations show older designs. If column has an asterisk (*), call manufacturer for serial number.
- **NOTES** – column for information not noted by the other columns.

NOTE: If a service or option kit is installed on your machine, be sure to keep the KIT INSTRUCTIONS which came with the kit. It contains replacement parts numbers needed for ordering future parts.

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

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precaution must always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE.

This machine is for commercial use.



WARNING:

To reduce the risk of fire, electric shock, or injury:

Connect to a **properly grounded outlet**. See Grounding Instructions.

Do not leave the machine unattended. Unplug machine from outlet when not in use and before maintenance or service.

Use only indoors. Do not use outdoors or expose to rain.

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

Use only as described in this manual. Use only manufacturer's recommended components and attachments.

Do not use damaged electrical cord or plug. Follow all instructions in this manual concerning grounding the machine. If the machine is **not working properly**, has been dropped, damaged, left outdoors, or dropped into water, return it to an authorized service center.

Do not pull or carry machine by electrical cord, use as a handle, close a door on cord, or pull cord around sharp edges or corners.

Do not run machine over cord. **Keep** cord away from heated surfaces.

Do not unplug machine by pulling on cord. To unplug, grasp the electrical plug, not the electrical cord.

Do not handle the electrical plug or machine with wet hands.

Do not operate the machine with any openings blocked. Keep openings free of debris that may reduce airflow.

This machine is intended for cleaning carpet only.

Do not vacuum anything that is burning or smoking, such as cigarettes, matches, or hot ashes.

This machine is not suitable for picking up health endangering dust.

Turn off all controls before unplugging.

Machine can cause a fire when operating near flammable vapors or materials. Do not operate this machine near flammable fluids, dust or vapors.

This machine is suitable for commercial use, for example in hotels, schools, hospitals, factories, shops and offices for more than normal housekeeping purposes.

Maintenance and repairs must be done by qualified personnel.

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

SAVE THESE INSTRUCTIONS

HAZARD INTENSITY LEVEL

The following symbols are used throughout this guide as indicated in their descriptions:

HAZARD INTENSITY LEVEL

There are three levels of hazard intensity identified by signal words -**WARNING** and **CAUTION** and **FOR SAFETY**. The level of hazard intensity is determined by the following definitions:

WARNING

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

CAUTION

CAUTION - Hazards or unsafe practices which could result in minor personal injury or product or property damage.

FOR SAFETY: To Identify actions which must be followed for safe operation of equipment.

Report machine damage or faulty operation immediately. Do not use the machine if it is not in proper operating condition. Following is information that signals some potentially dangerous conditions to the operator or the equipment. Read this information carefully. Know when these conditions can exist. Locate all safety devices on the machine. Please take the necessary steps to train the machine operating personnel.

FOR SAFETY:

DO NOT OPERATE MACHINE:

Unless Trained and Authorized.

Unless Operation Guide is Read and understood.

In Flammable or Explosive areas.

In areas with possible falling objects.

WHEN SERVICING MACHINE:

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

GROUNDING INSTRUCTIONS

THIS PRODUCT IS FOR COMMERCIAL USE ONLY.

ELECTRICAL:

In the USA this machine operates on a standard 15 amp 115V, 60 hz, A.C. power circuit. The amp, hertz, and voltage are listed on the data label found on each machine. Using voltages above or below those indicated on the data label will cause serious damage to the motors.

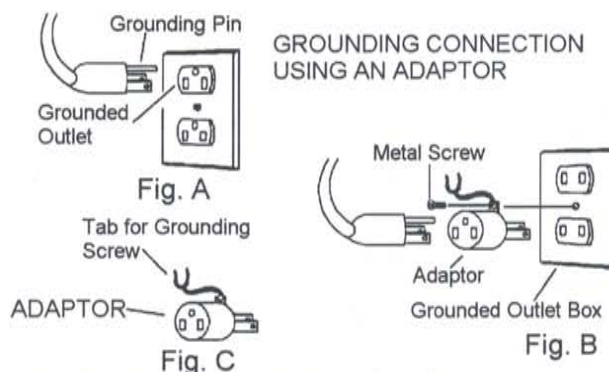
EXTENSION CORDS:

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

GROUNDING INSTRUCTIONS:

This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

This appliance is for use on a nominal 120-volt circuit, and has a grounded plug that looks like the plug in "Fig. A". A temporary adaptor that looks like the adaptor in "Fig. C" may be used to connect this plug to a 2-pole receptacle as shown in "Fig. B", if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet (Fig. A) can be installed by a qualified electrician. The green colored rigid ear, lug, or wire extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by a metal screw.



Note: Adaptors are not allowed in Canada.

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

TECHNICAL SPECIFICATIONS

POWER TYPE

ELECTRICAL: 115 V, 15 A, 60 HZ

ELECTRIC VACUUM MOTOR: (1) –3 stage, 1 hp, 99 cfm (2.80 cubic meters/min.) Waterlift –117" (297cm)

BRUSH: (1) 15" (38.1 cm.)

SOLUTION PUMP: 100 PSI, diaphragm style, internal bypass

SOLUTION CAPACITY: 8 gallons (30.3 ltr)

RECOVERY CAPACITY: 8 gallons (30.3 ltr)

BRUSH SPEED: 1000 rpm

GENERAL DIMENSIONS/WEIGHT

Vacuum shoe: 17" (43.18 cm) cast aluminum with spring loaded down pressure

WHEELS: (2) 10" dia. (25 cm) wheels by 2"

WEIGHT: 92 lbs. (42 kg)

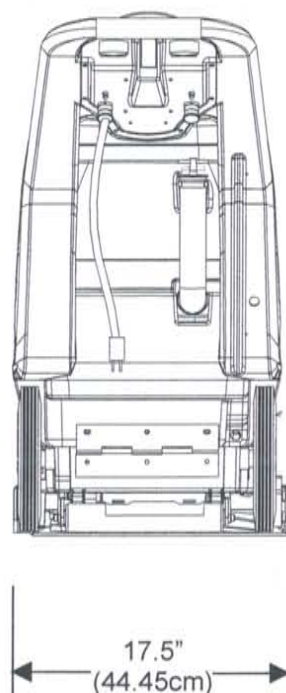
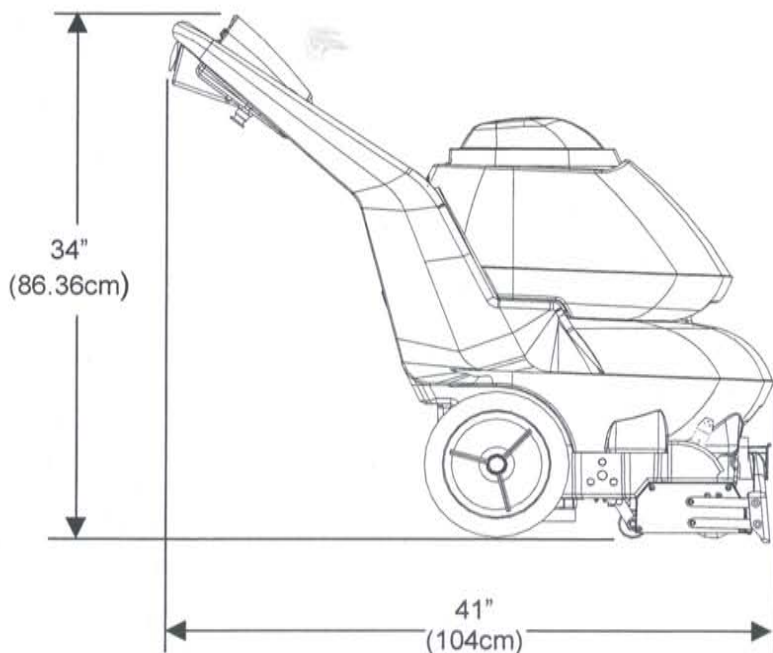
LENGTH: 41" (104 cm)

HEIGHT: 34" (86.36 cm)

WIDTH: 17.5" (44.45 cm)

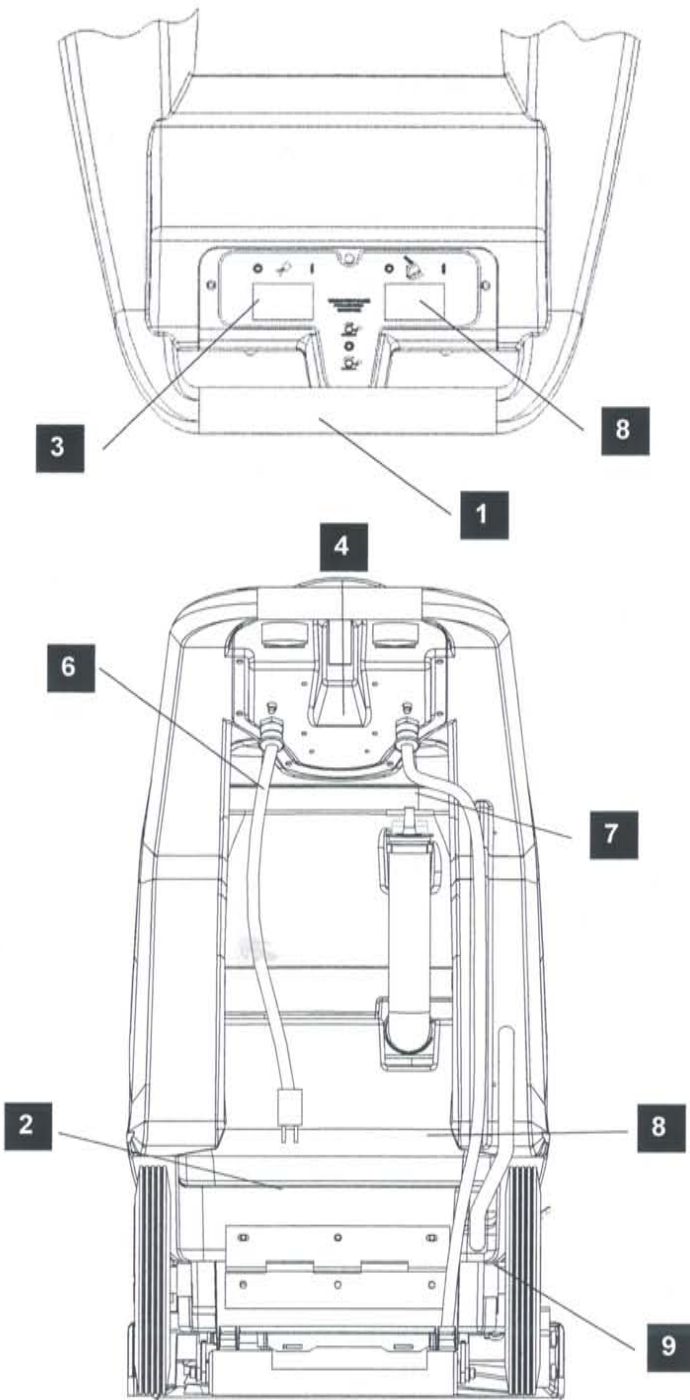
SOLUTION SPRAY: 2 quick change jets.

POWER CABLE: 50' (12.7 m) (14 gauge)



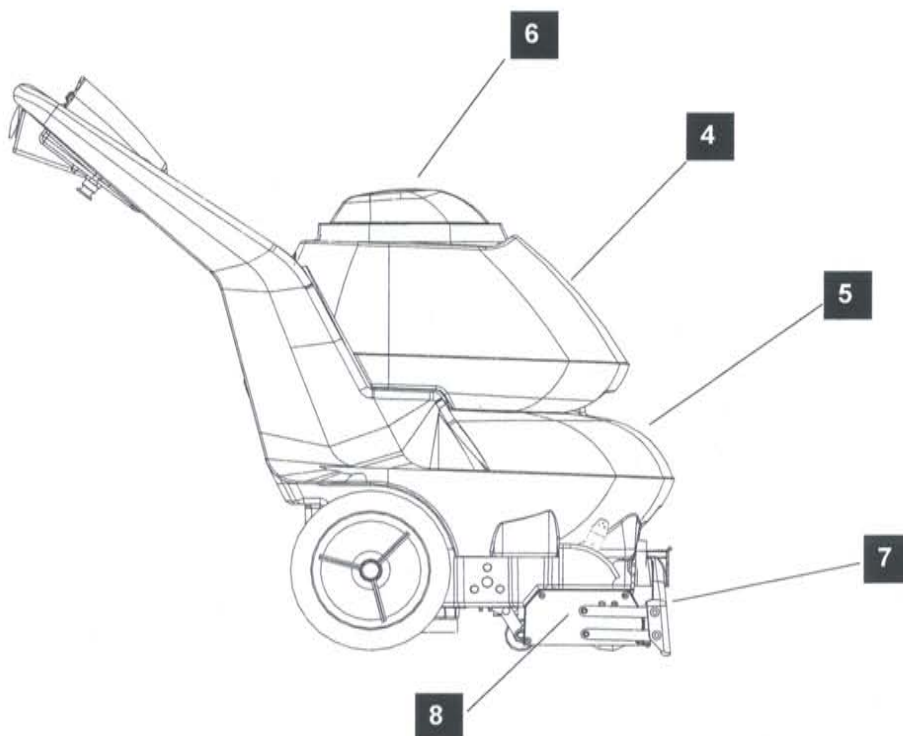
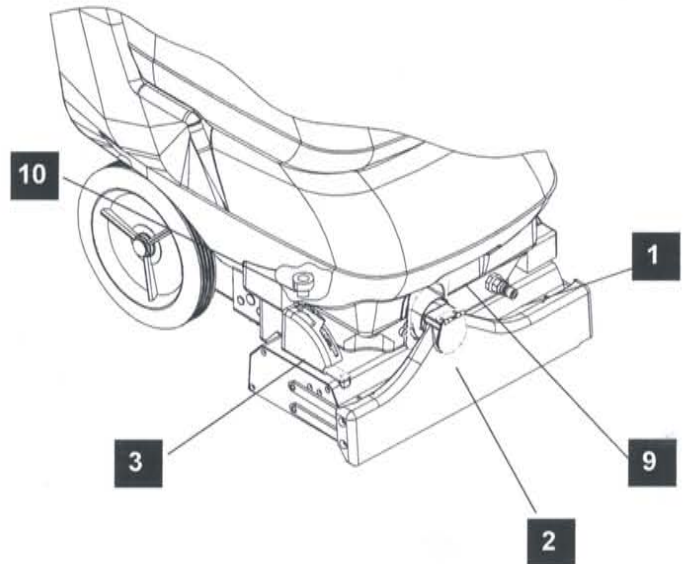
CONTROLS/COMPONENT LOCATIONS

1. **Main Handle.** Used to pull and maneuver machine.
2. **Electrical Cord.**
3. **Pump Switch.** Turns on pump and enables spray.
4. **Brush/Spray Switch.** Turns on brush motor and activates electro-valve to dispense solution to floor through jets. Intermittent, off, and continuous settings.
5. **Vacuum Motor Switch.** Turns on vacuum motor.
6. **Brush Motor Circuit Breaker.** 6 amp. Breaker protecting brush motor.
7. **Vacuum Motor Circuit Breaker.** 15 amp. Breaker protecting vacuum motor.
8. **Recovery Dump Hose.** Facilitates draining dirty cleaning solution.
9. **Solution Dump Hose.** Facilitates draining excess cleaning solution from solution tank.



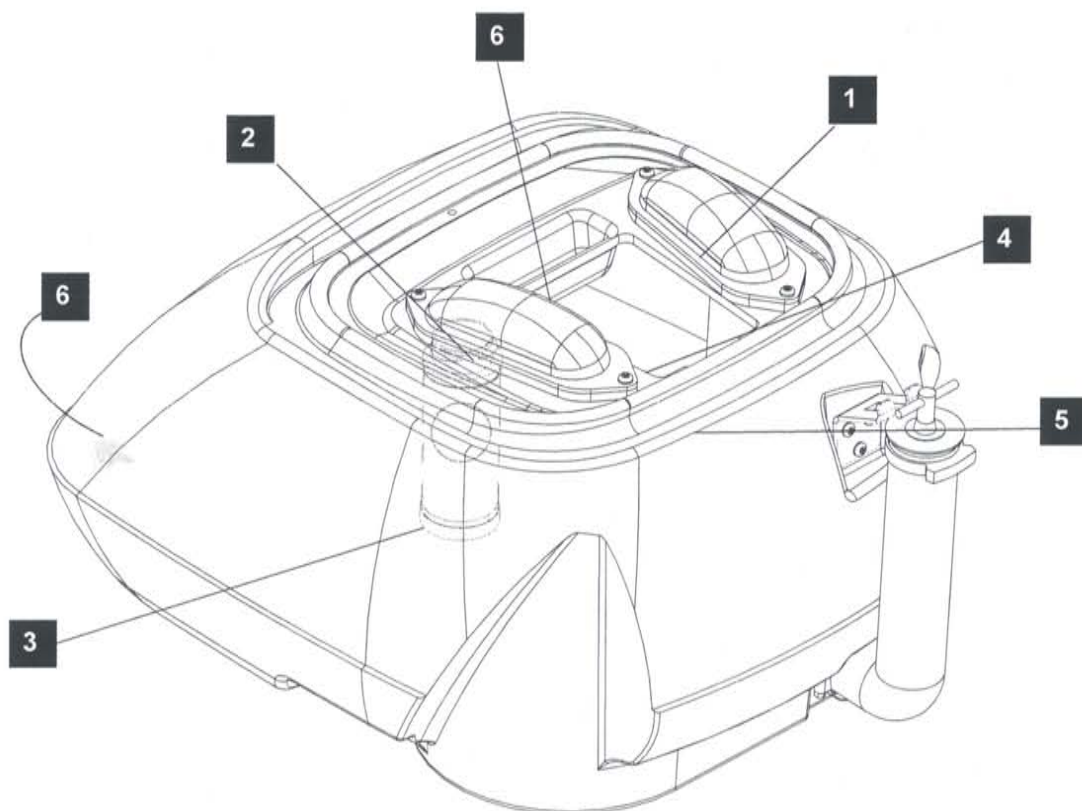
CONTROLS/COMPONENT LOCATIONS

1. **Solution Accessory Tool Hookup.** Used for various auxiliary cleaning tools.
2. **Vacuum Hose Door.** Used to connect various auxiliary 1 ½ inch cleaning tool vacuum hoses.
3. **Brush Height Adjustment.** Used to regulate brush height from storage position to various carpet heights.
4. **Recovery Tank.** Used to collect dirty cleaning solution.
5. **Solution Tank.** Used to hold cleaning solution.
6. **Recovery Tank Dome.**
7. **Vacuum Shoe.**
8. **Brush Housing.**
9. **Front Lifting Handle.**
10. **Cleaning Solution Filter.**

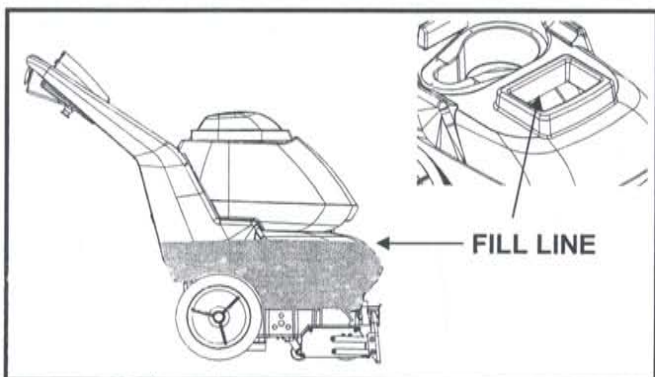


CONTROLS/COMPONENT LOCATIONS

1. Solution Intake Cover.
2. Vacuum Intake Cover.
3. Float Shut-Off.
4. Clean-Out Opening.
5. Pour Spout.
6. Lift Handle.



FILLING OPERATIONS



FILLING THE BFP8

NOTE: Use clean bucket of water to fill solution tank

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

Do not allow water to spill into vacuum motor inlet. Dry spillage from top of solution tank before replacing recovery tank.

CHEMICALS

Suitable Chemicals

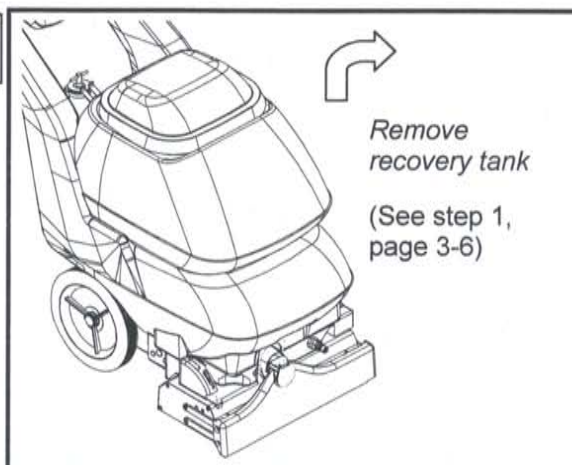
Alkalis
Detergents
Hydroxides
Soaps
Vinegar

Non-Compatible Chemicals

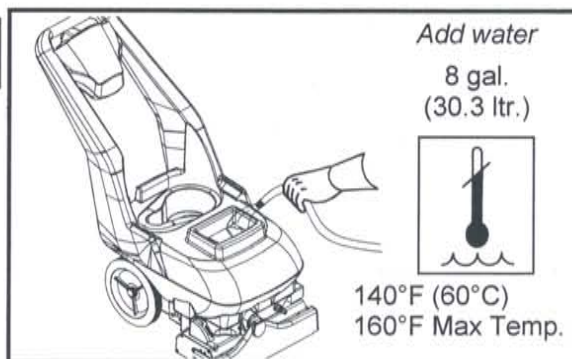
Aldehydes
Aromatic Hydrocarbons
SP Butyls
Carbon Tetrachloride
Clorox*
Chlorinated Bleaches
Chlorinated Hydrocarbons
Lysol*
Methyl Ethel Ketone (MEK)
Perchlorethylene (perc)
Phenolics
Trichlorethylene
D-Limonene

* Product Trademark Names

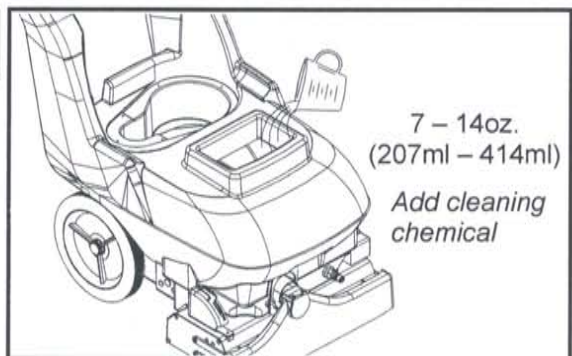
STEP
1



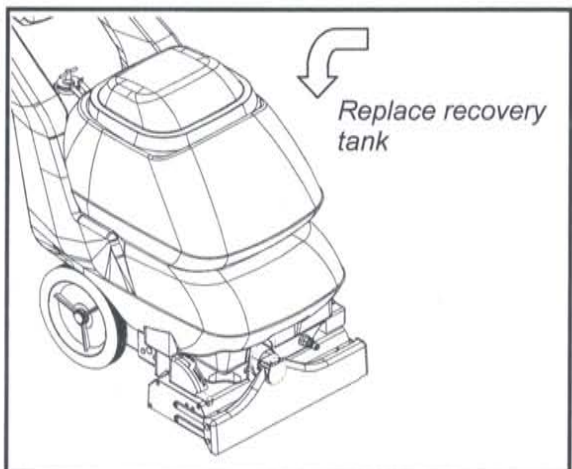
STEP
2



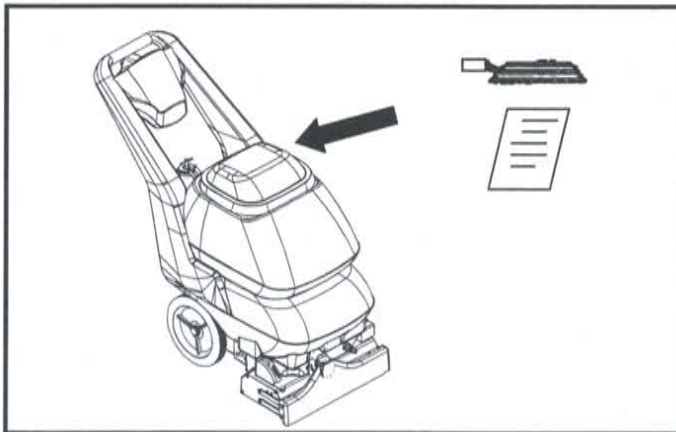
STEP
3



STEP
4

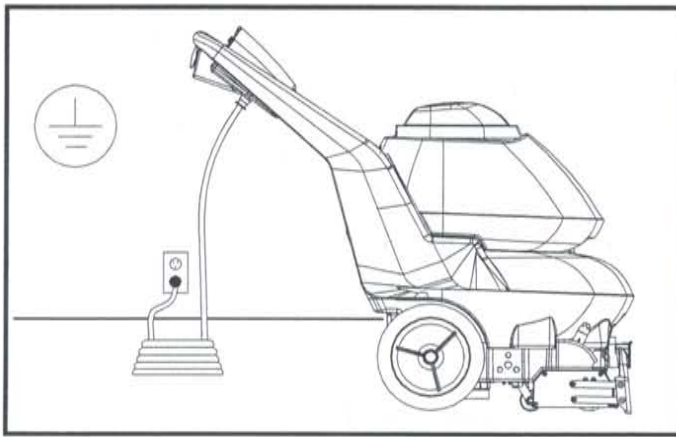


OPERATIONS



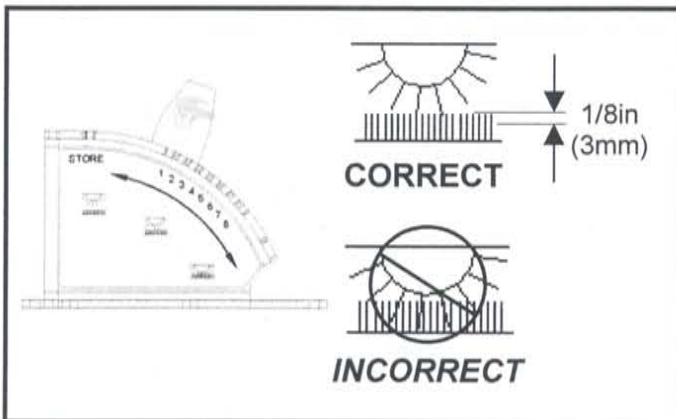
**STEP
1**

Remove electrical cord and literature from recovery tank. Fill solution tank (see filling instructions page 3-5).



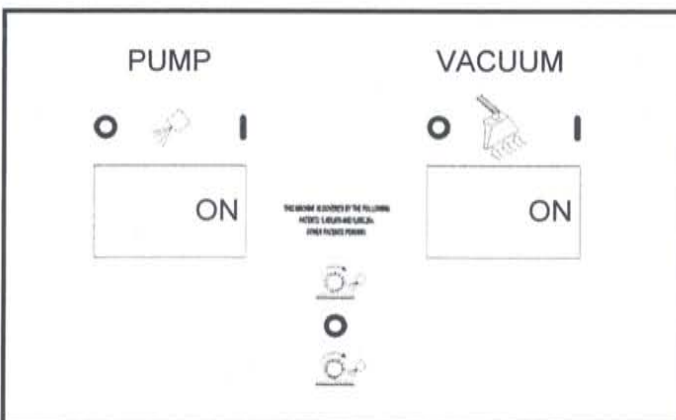
**STEP
2**

Wrap cord through yellow strain relief on handle then plug cord into grounded outlet. *Note: Be sure dome is seated on recovery tank, and float shut-off is installed correctly.*



**STEP
3**

Adjust brush to proper setting. *Note: For good operation the brush must skim the carpet. If circuit breaker trips raise brush to prevent damage to motor or carpet.*



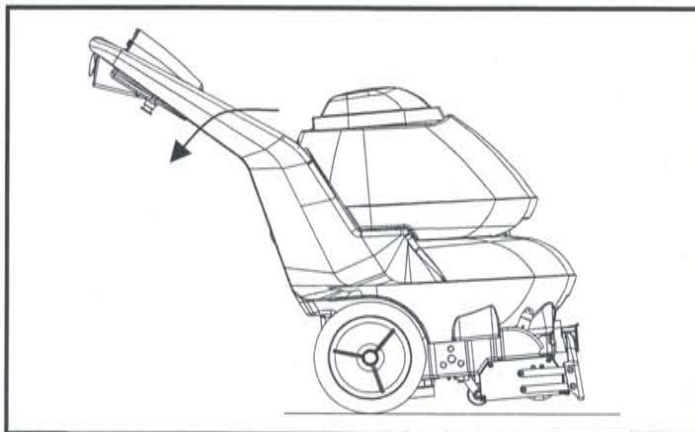
**STEP
4**

Turn on both Vacuum and Pump motor switches ("ON"="I").

OPERATIONS

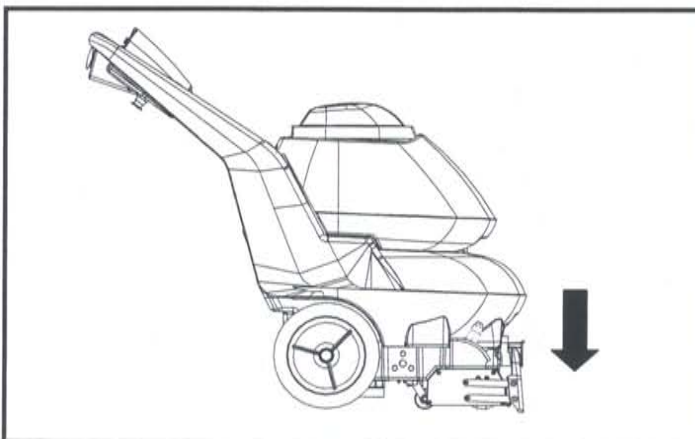
Tip machine back by main handle to move to starting point.

STEP
5



Lower machine to floor.

STEP
6

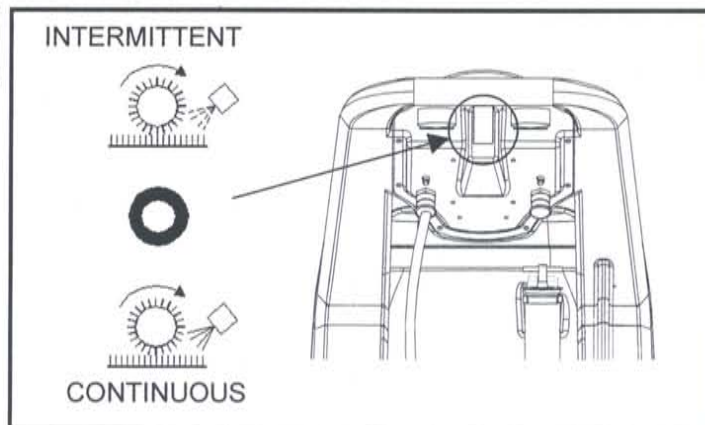


Select intermittent or continuous switch setting to turn on brush and start solution spray.

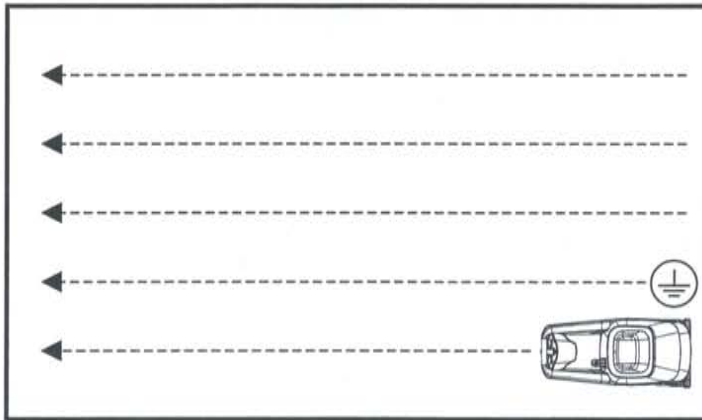
The intermittent setting requires the operator to hold the switch in the "on" position with the thumb, and is typically used in small areas where short cleaning passes are made.

The continuous setting allows the operator to set the switch in the "on" position with one touch, and is typically used in large areas where long cleaning passes are made.

STEP
7

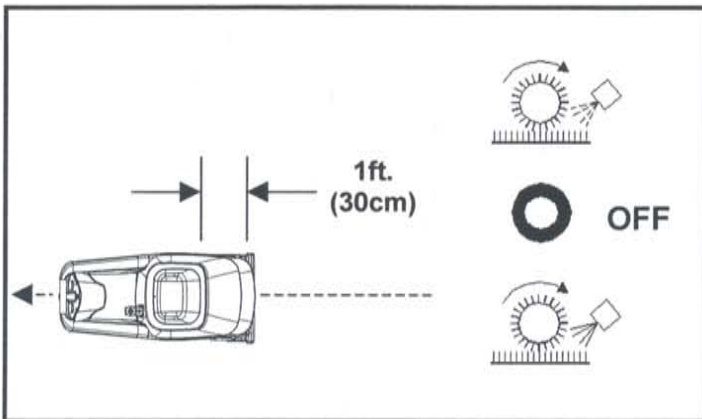


CLEANING PROCEDURE



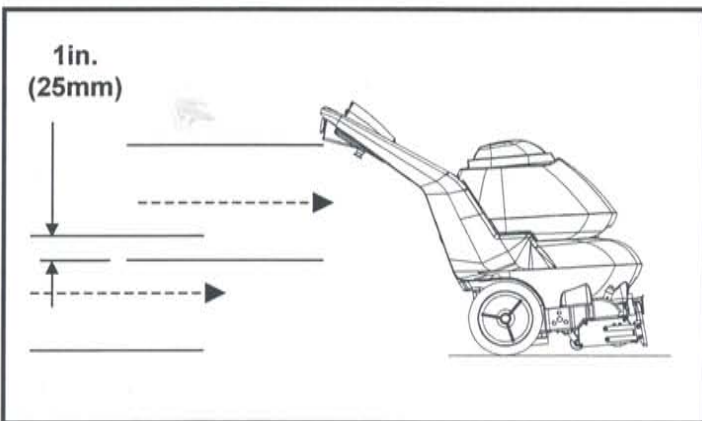
STEP 1

Start at wall closest to power outlet. Pull straight back without pushing down on handle.



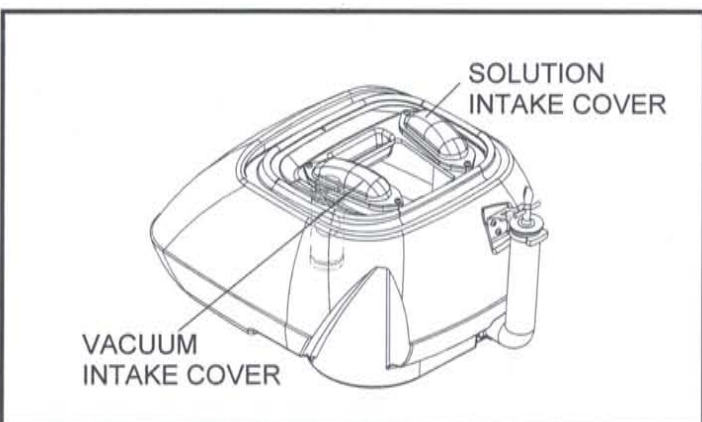
STEP 2

Release intermittent setting or turn off continuous setting on brush/spray switch approximately 1 foot before ending cleaning pass.



STEP 3

Push down on handle to raise vacuum shoe and brush before moving to the next cleaning pass. Overlap brush contact area approximately 1 inch.



STEP 4

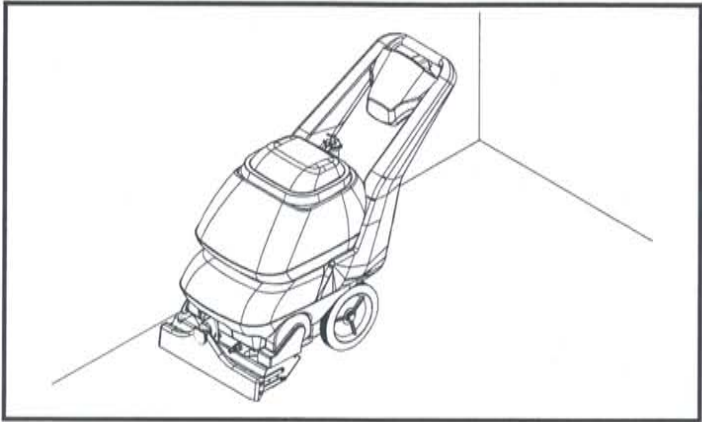
During operation, observe the following: The BFP 8 is equipped with clear internal covers to facilitate operator viewing of dirty solution and vacuum air flow.

During operation, observe the vacuum intake cover. Large amounts of water or foam entering the vacuum system can damage the vacuum motor. If you notice either condition, **shut down the machine immediately**. Empty recovery tank and/or add defoamer to recovery tank.

CLEANING PROCEDURE

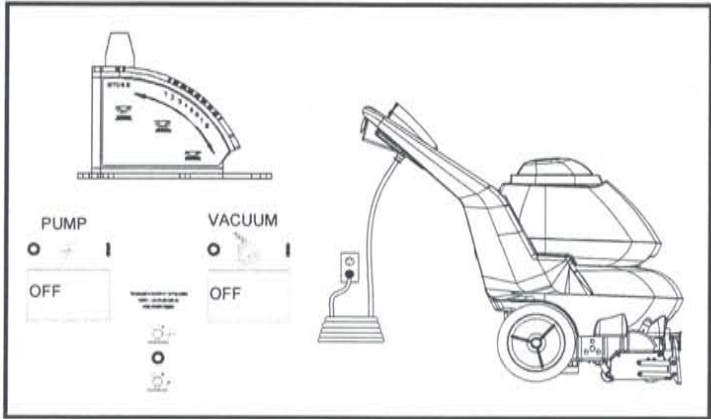
Use right side of machine for cleaning against walls.

STEP 5



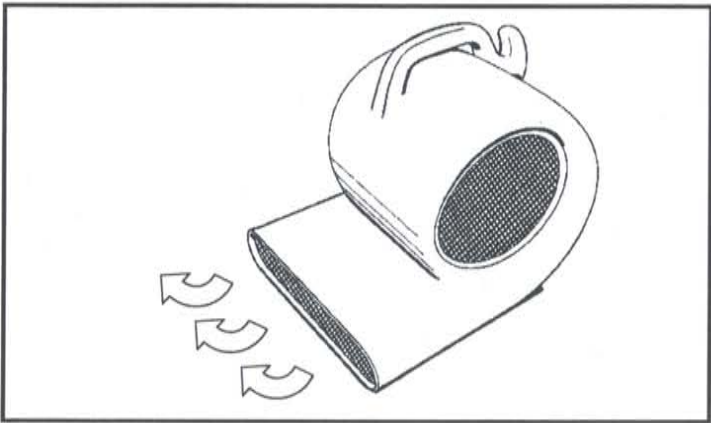
After cleaning, turn off all controls, return brush to storage position and carefully unplug machine.

STEP 6



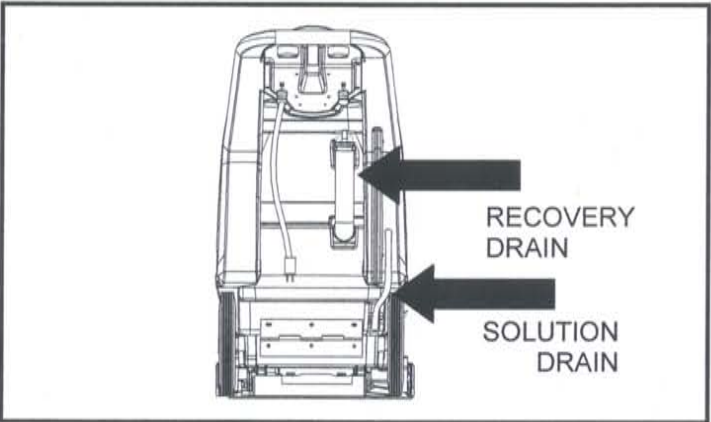
To speed drying, use a fan.

STEP 7

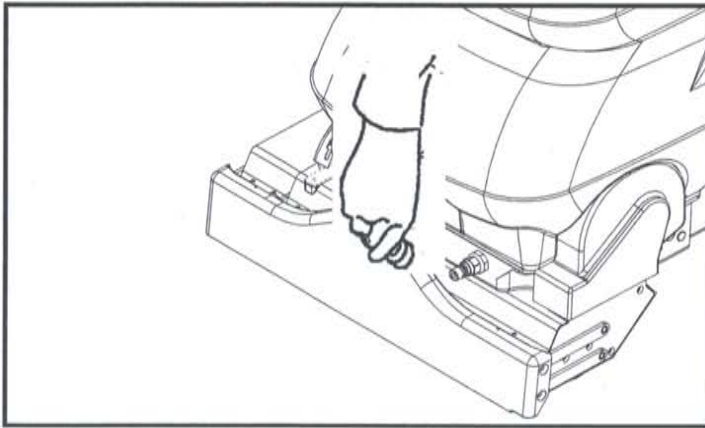


Empty recovery tank by releasing dump hose. Use a hose with cold water to clean out the recovery tank. Also drain solution tank after each use.

STEP 8

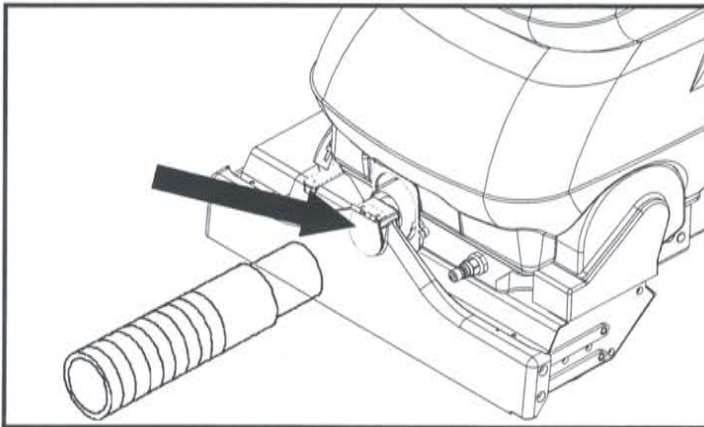


ACCESSORY TOOL USAGE



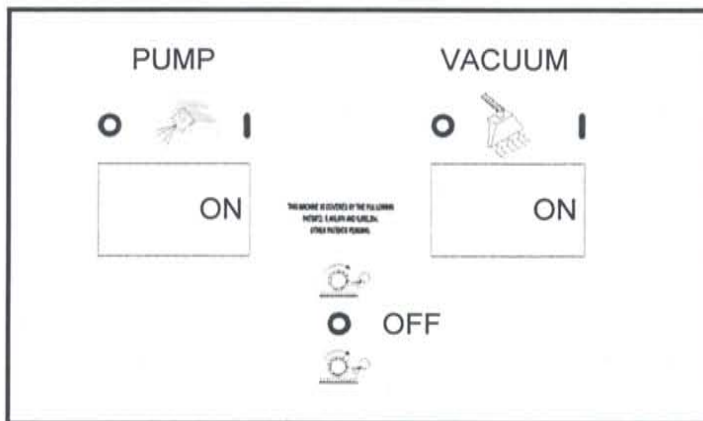
STEP
1

Pull back collar and insert over machine mounted fitting, then release collar to lock into place.



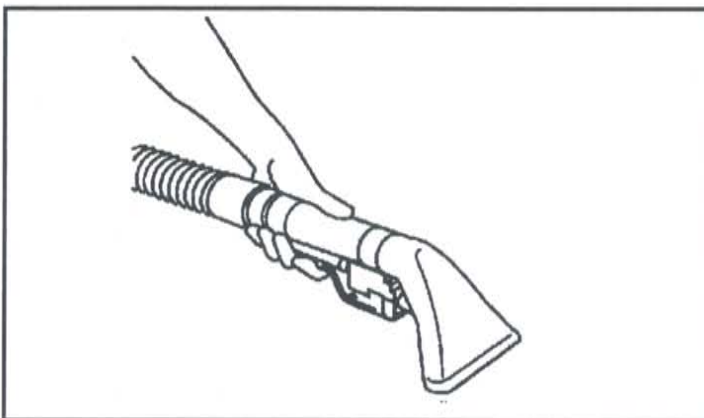
STEP
2

Lift door on front of vacuum shoe and insert 1 1/2 inch hose cuff into hole. Ensure clear dome is in place on top of machine to create vacuum.



STEP
3

Turn on Pump and Vacuum Switch. *Note: Be sure intermittent/continuous switch is in center (off) position and brush is in storage position.*



STEP
4

Squeeze handle on accessory tool to begin cleaning.

MAINTENANCE

PERIODIC MAINTENANCE

Twice a month, flush a white vinegar solution (One quart vinegar to two gallons of water) or anti-browning solution (mixed as directed) through the extractor. 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, wire, etc. to clean nozzles as this could destroy 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. If the cable insulation is broken or frayed, repair or replace it immediately. Don't take chances with electrical fire or shock.

DAILY / REGULAR MAINTENANCE

Before making any adjustments or repairs to the machine, disconnect the power cord from 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 or 7 liters of clean, hot 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 1-10 bleach to water solution. Waste water should be disposed of properly.
5. Check for and remove any lint or debris around vac shoe.
6. Check spray jets for full spray pattern.
7. Remove lint and dirt build-up from brush and housing.
NOTE: Brush removal.
 - A. To remove brush, grab and pull brush out from end opposite drive belt (operator's right). Remove other end from brush driver.
 - B. To install brush, line up slots in brush core with pin in driver on drive belt side (operator's left) and push brush onto driver. Then snap bearing end (opposite end) of brush into retaining clip.
8. Check cooling air screen (located on frame behind left wheel) for lint or debris.
9. Check float and shut-off screen and clean as necessary.

NOTE: Always store machine with brush in "Store" position.



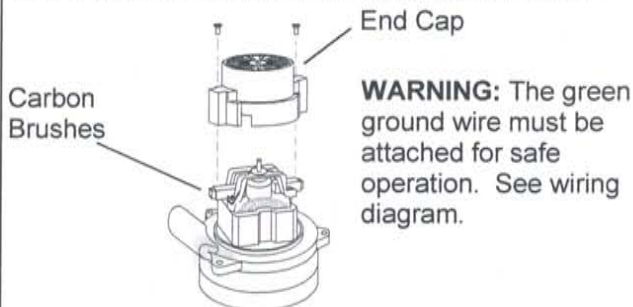
WARNING:

ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

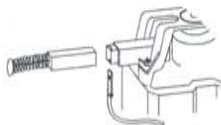
VACUUM MOTOR REPLACEMENT

1. Turn off all switches and unplug machine.
2. Remove recovery tank.
3. Remove the (2) screws that fasten the solution tank to the frame, and tilt tank back to expose the inside of the frame.
4. Locate the vacuum motor wires and disconnect at the connector. Close the solution tank.
5. Remove the (6) screws holding the vacuum motor cover (p/n 86003080 – PRV NO. 27809) to the solution tank.
6. Remove the vacuum motor.
7. Reverse process to install vacuum motor.

Vacuum Motor Carbon Brushes Replacement

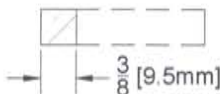


If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center.



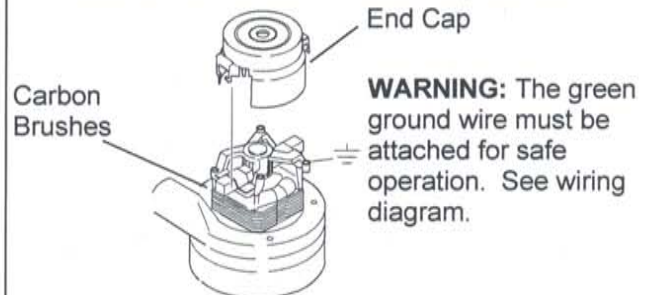
Important:

These brushes wear quicker as the length shortens due to increased heat. Spring inside brush housing will damage motor if brushes are allowed to wear away completely.

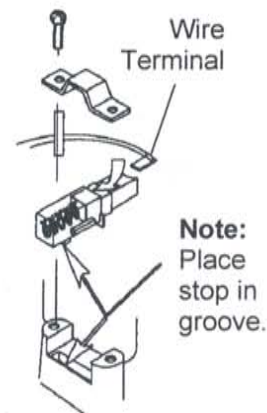


Periodically check the length of the carbon brushes. Replace both carbon brushes when either is less than 3/8" (9.5mm) long.

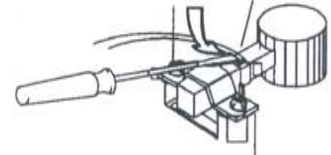
Vacuum Motor Carbon Brushes Replacement



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

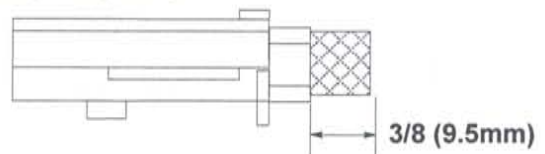


If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center. Wire Terminal



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.

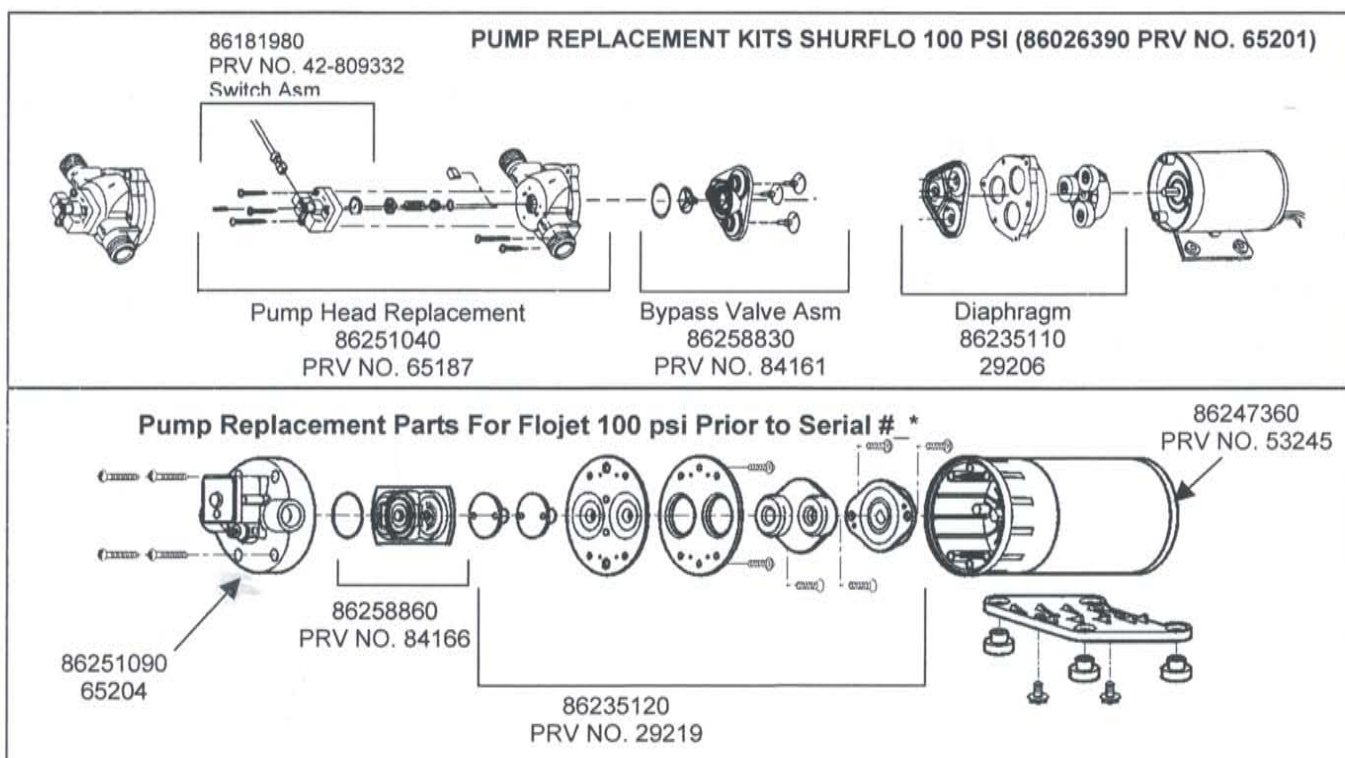


WARNING:

ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

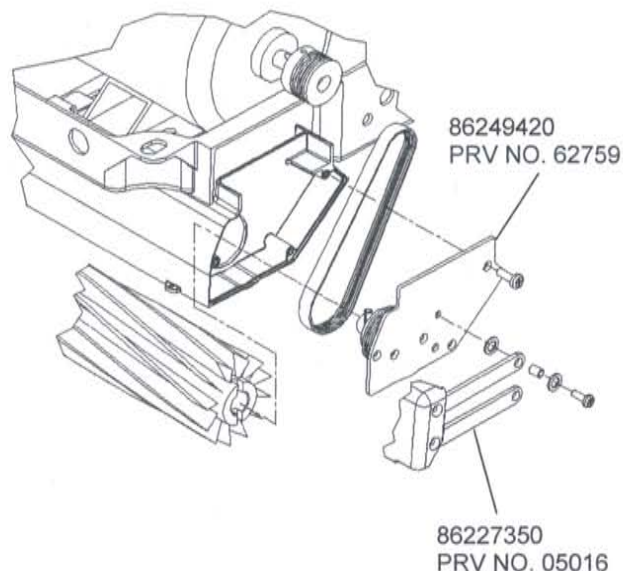
SOLUTION PUMP REPLACEMENT

1. Turn off all switches and unplug the machine.
2. Remove recovery tank.
3. Remove the (2) screws that fasten the solution tank to the frame, and tilt tank back to expose the inside of the frame.
4. Remove solution hoses from fittings in pump.
5. Remove the (2) screws that fasten the pump to the frame.
6. Reverse process to install pump.

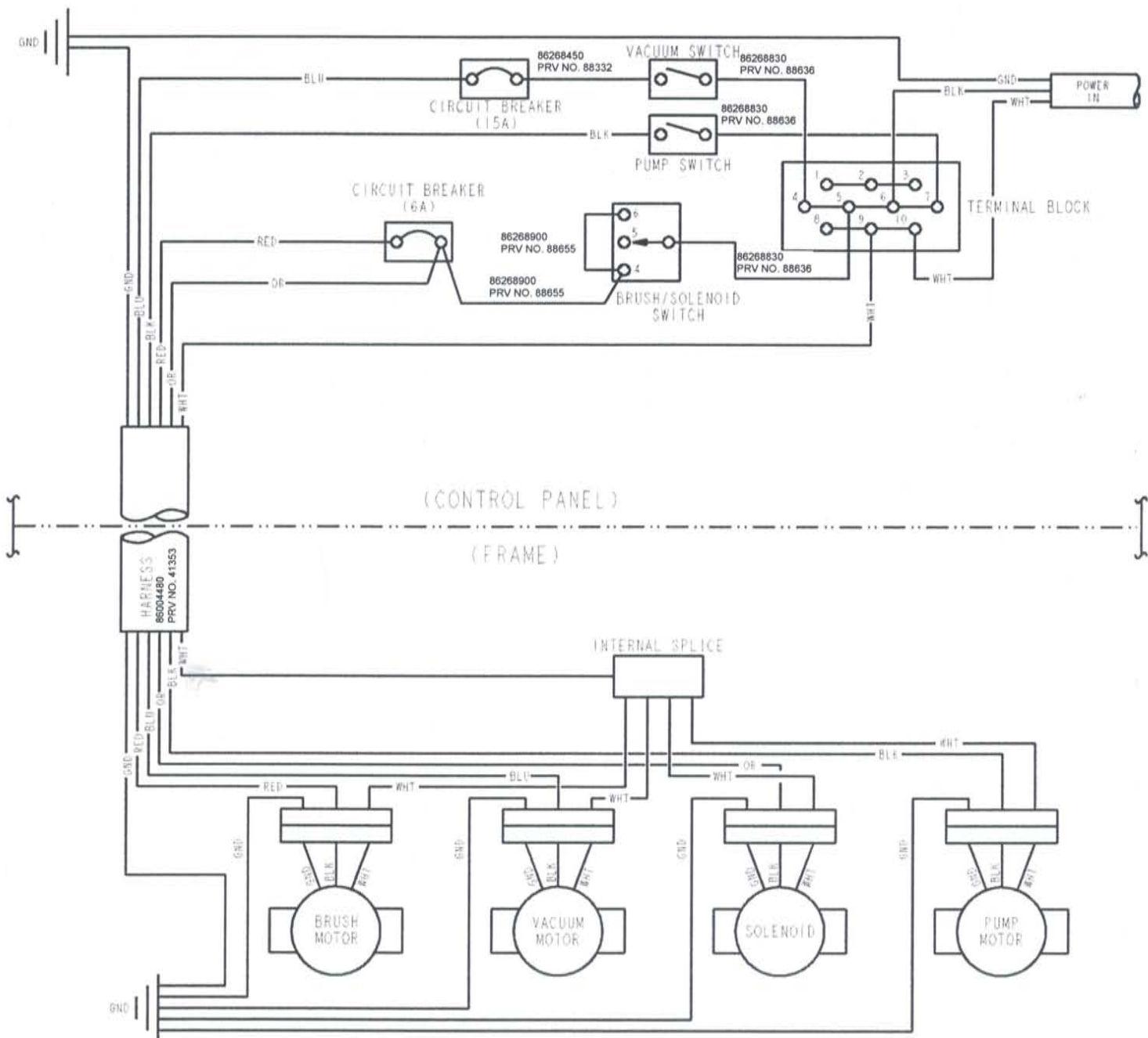


BELT REPLACEMENT

1. Turn off all switches and unplug machine.
2. Remove recovery tank and brush.
3. Remove the (2) screws that fasten the solution tank to the frame, and tilt tank back to expose the inside of the frame.
4. Loosen the (4) screws that hold the brush motor in place and slide motor forward to release tension in belt.
5. Remove the (2) screws that fasten the vacuum shoe links (p/n 05016) to the brush housing.
6. Remove the (3) screws that fasten the side plate (p/n 86249420 – PRV NO. 62759) to the brush housing to remove belt. *NOTE: All components associated with driving the brush will come out with the side plate.*
7. Reverse process to install belt.



WIRING DIAGRAM

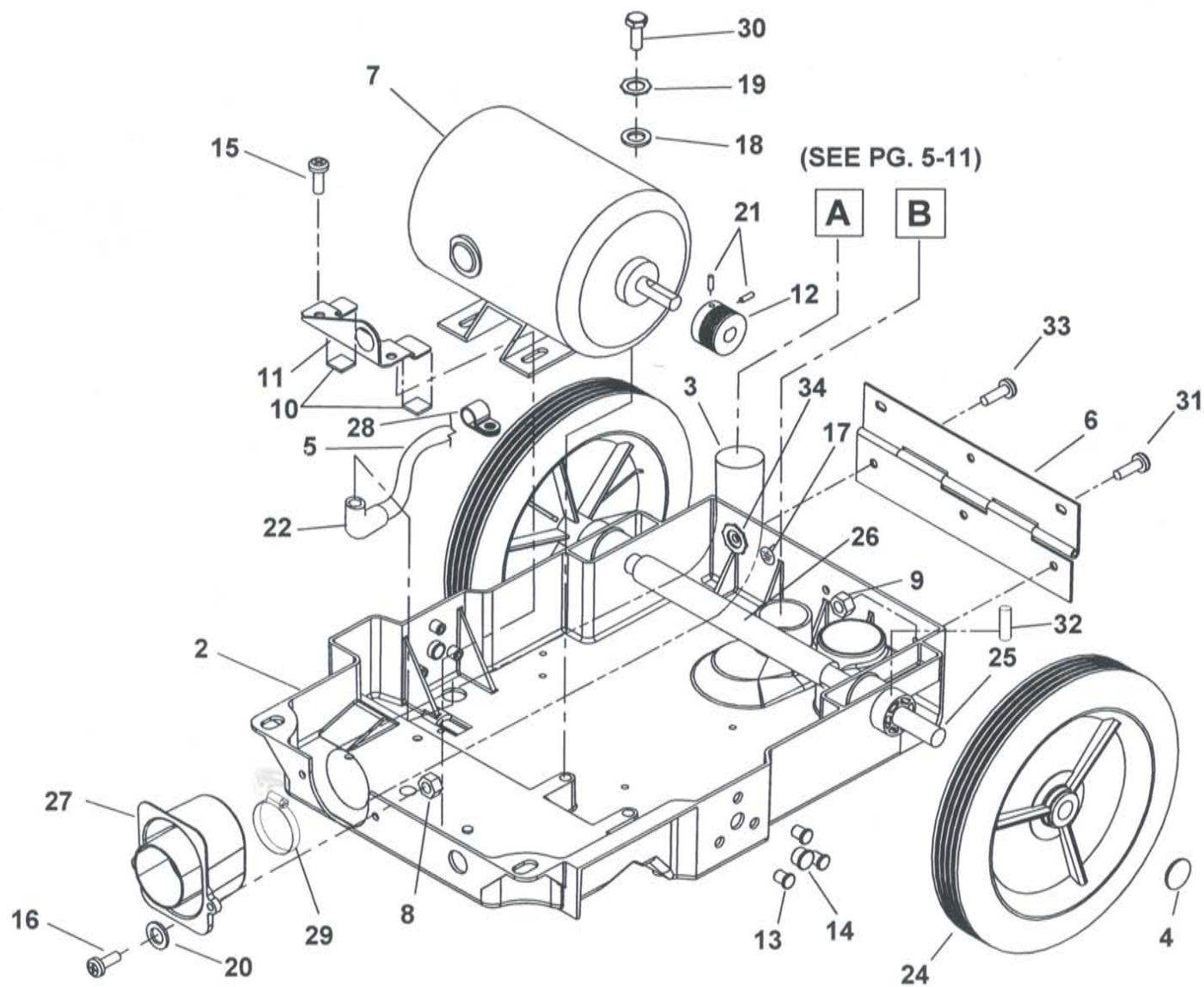


TROUBLESHOOTING CHART

PROBLEM	CAUSE	SOLUTION
No Power, Nothing Runs	Is the cord plugged in.	Plug in cord.
	Circuit breaker tripped in building.	Reset breaker.
	Faulty switch.	Call for service.
	Faulty power cord or pigtail.	Call for service.
Vacuum Motor Will Not Run	Vacuum circuit breaker tripped.	Reset breaker.
	Faulty main vacuum switch.	Call for service.
	Loose wiring.	Call for service.
	Faulty vac motor.	Call for service.
Vacuum Motor Runs But Suction Is Poor	Debris lodged in vac shoe.	Remove debris from vac shoe.
	Dome gasket defective or missing.	Replace as necessary.
	Dome is not seated properly.	Make sure dome is in proper place on tank.
	Recovery tank full / float ball stuck in the up position.	Turn off vac motor. Drain and rinse recovery tank.
Poor Or No Water Flow (Carpet Is Streaky)	Main pump switch off.	Turn on.
	Jets clogged or missing.	Clean using a vinegar /water solution or replace.
	Solution filter clogged.	Drain solution tank and clean solution filter.
	Faulty solenoid.	Call for service.
Brush Does Not Spin	Brush switch off.	Turn on brush switch.
	Brush circuit breaker tripped.	Reset circuit breaker.
	Brush belt broken.	Replace as necessary.
	Faulty brush motor.	Call for service.

NOTES:

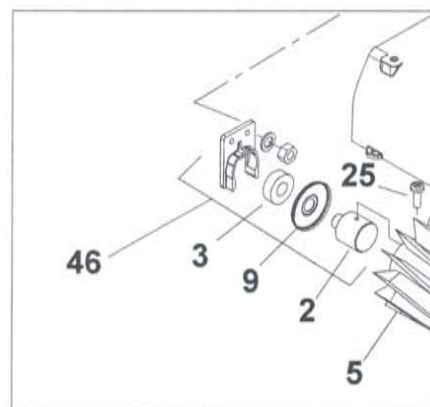
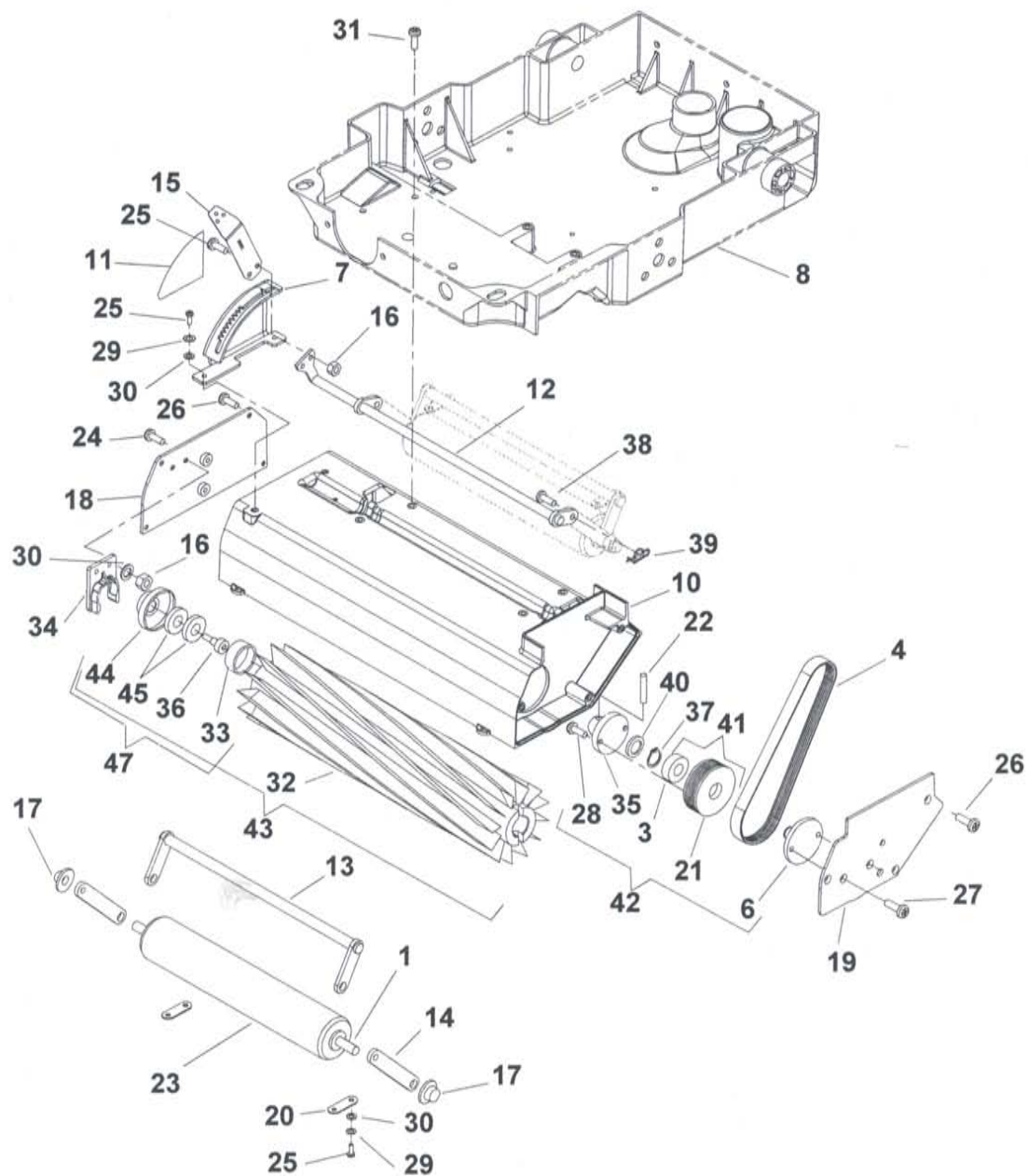
FRAME ASSEMBLY



FRAME ASSEMBLY

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	-	OPEN	-	-		
2	86003620	34341	1	FRAME		
3	86004340	39528	1	HOSE ASM, 1.5 BLK VAC X 15.5		
4	86001660	41236	2	HUBCAP, 5/8" SHAFT		
5	86004480	41353	1	HARNESS, MAIN		
6	86239610	41354	1	HINGE, TANK TO FRAME		
7	86026150	53640	1	MOTOR ASM, BRUSH		
8	86005640	57030	2	NUT, 10-32 HEX NYLOCK		
9	86005810	57245	3	NUT, 1/4-20 HEX NYLOCK SS		
10	86198530	99809	2	FOAM TAPE, 1/8 THK X 3/4 1SDA		
11	86249430	62761	1	PLATE, BRUSH MTR CLAMP		
12	86006020	64099	1	PULLEY, 1.4 OD, 6GR, MICRO-V		
13	86250130	66282	6	PLUG, HOLE, .375" BLK		
14	86250140	66288	2	PLUG, 9/16 OD BLK NYLON		
15	86276410	70643	2	SCR, 1/4-20 X 3/8" PPHMS		
16	86273980	70066	2	SCR, 10-32 X 3/4 PPHMS		
17	86245040	50279	1	LABEL, GROUND SYMBOL		
18	86010630	87013	2	WASHER, 1/4 ID X 5/8 OD SS		
19	86010660	87025	2	WASHER, 1/4 LOCK EXT STAR SS		
20	86010650	87018	2	WASHER, #10 X 9/16 OD		
21	86006550	70074	2	SET SCR, 10-32 X 1/4 KCP		
22	86256190	73197	1	STRAIN RELIEF, 90 DEGREE		
23	-	OPEN	-	-		
24	86259960	89506	2	WHEEL, 1-15/16 X 10" HOOSIER		
25	86066230	03107	1	AXLE, 5/8 X 17.06L		
26	86134490	99667	10"	HEAT SHRINK, 3/4 ID UL/CSA		
27	86253090	73943	1	SEAL, FRAME/TANK		
28	86002370	20035	1	CLAMP, 7/16 DIA NYLON UL		
29	86233140	20041	1	CLAMP, 2.0" WORM GEAR		
30	86274760	70271	2	SCR, 1/4-20 X 1/2 HHCS PLTD		
31	86006530	70057	2	SCR, 1/4-20 X 1 PPHMS SS		
32	86272160	66052	1	PIN, ROLL 1/8" X 1.0"L		
33	86276610	70697	1	SCR, 1/4-20 X 1.25 PPHMS SS		
34	86005710	57105	3	NUT, 1/4-20 HEX W/ STAR WASHER		

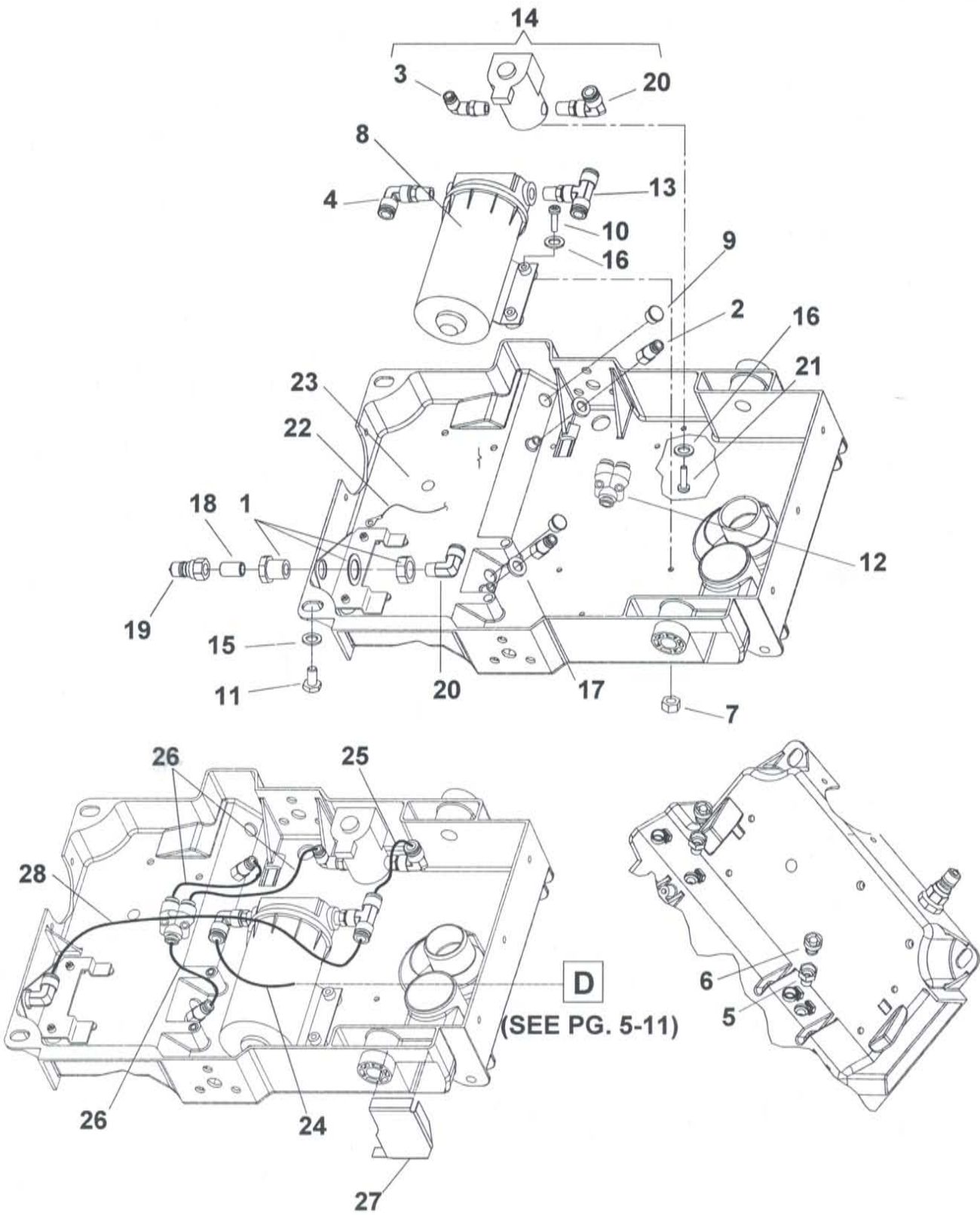
BRUSH ASSEMBLY



BRUSH ASSEMBLY

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86000730	03110	1	AXLE, ROLLER		
2	86227100	04084	1	ADAPTER, BRUSH BRG.		
3	86000900	09019	2	BEARING, 1.125ODX.500IDX.375		
4	86001100	11045	1	BELT, 180J6 MICRO-V		
5	86001140	12514	1	BRUSH, 15L X 3.38OD		
6	86001300	140343	1	BRKT, BRUSH PULLEY		
7	86001310	140351	1	BRKT, BRUSH HEIGHT		
8	86003620	34341	REF	FRAME		
9	86004060	36192	2	GUARD, THREAD		
10	86004470	41345	1	HOUSING, BRUSH 15"		
11	86004980	50998	1	LABEL, BRUSH HEIGHT		
12	86093080	51311	1	LINKAGE, ASM, BRUSH HEIGHT		
13	86005110	51312	1	LINKAGE ASM, ROLLER SUPPORT		
14	86005120	51314	2	LINK, ROLLER, FRONT		
15	86005130	51317	1	LEVER, HEIGHT ADJUSTMENT		
16	86005640	57030	4	NUT, 10-32 HEX NYLOCK		
17	86005850	57271	2	NUT, 3/8 DIA CAP, TYPE PUSH PLT		
18	86249410	62758	1	PLATE, BRUSH HOUSING RH		
19	86249420	62759	1	PLATE, BRUSH HOUSING LH		
20	86081500	62762	2	PLATE, AXLE RETAINER		
21	86250680	64098	1	PULLEY, 2.2 OD, 6GR, MICRO-V		
22	86006220	66192	1	PIN, ROLL 1/4 X 1.25L		
23	86006430	67411	1	ROLLER, 1.9 DIA X 10.5 LG		
24	86006510	70043	2	SCR, 10-32 X 5/8 PFHMS		
25	86006590	70088	6	SCR, 10-32 X 1/2 PPHMS SS DL		
26	86006650	70177	7	SCR, 10-32 X 1/2 FHMS SS		
27	86006700	70232	2	SCR, 10-32 X 3/8 FHMS SS		
28	86275530	70497	2	SCR, #10-24 X 1/2 SHCS		
29	86010640	87016	4	WASHER, #10 LOCK EXT STAR SS		
30	86010650	87018	6	WASHER, #10 X 9/16 OD		
31	86007030	70675	4	SCR, 1/4-20 X 5/8 THMS PLTD NP		
32	86230620	12524	1	BRUSH, 15 L X 3.38 OD G2	1000060649	
33	86251710	67467	1	RING, TOLERANCE 7/8 ID X 1/2 W	1000060649	
34	86003070	27805	1	CLIP, BEARING		
35	86003370	29157	1	DRIVER, BRUSH		
36	86136760	70767	1	SHLDR BOLT, 3/8 OD X 3/8 L SS NP	1000060649	
37	86272770	67094	1	RING, 1/2 EXT. SNAP		
38	86272510	66310	2	PIN, CLEVIS 1/4 X 1/2 PLTD		
39	86008650	80604	2	COTTER, 1/4" RING		
40	86008160	73966	1	SPACER, .81ID X 1.06OD, ALUM		
41	86006030	64102	1	PULLEY ASM, BRUSH		
42	86003390	29208	1	DRIVER ASM, BRUSH		
43	86001140	12514	1	BRUSH ASM, 15 IN		
44	86227150	05158	1	ADAPTER BRUSH BRG. DIE CAST	1000060649	
45	86228890	09137	2	BEARING, R6 3/8 ID	1000060649	
46	86028010	47383	1	BRUSH BEARING ASM		
47	86004750	47416	REF	KIT, BRNG/ADPTR EXTRCTR		

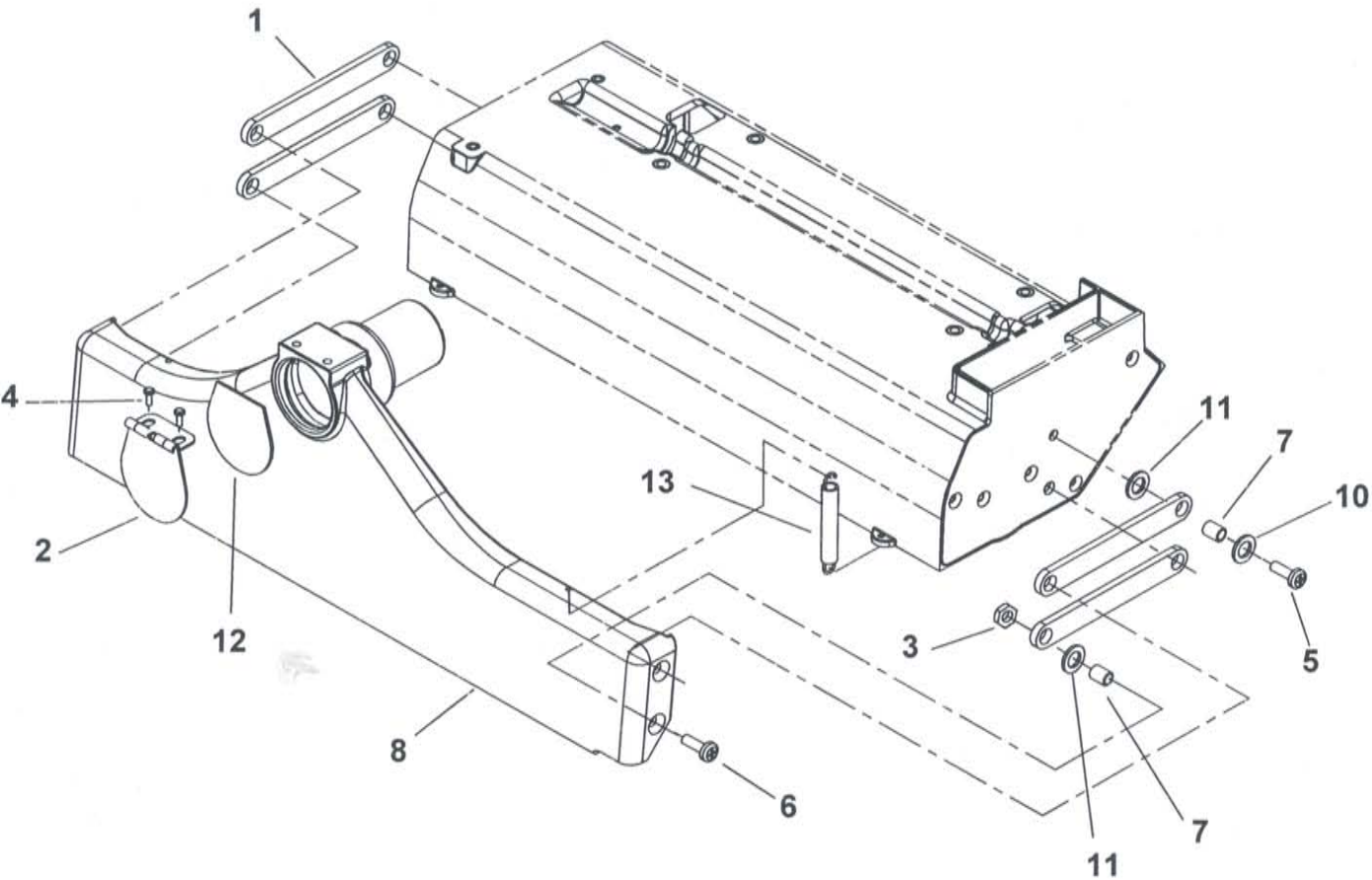
PUMP ASSEMBLY



PUMP ASSEMBLY

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86002470	22072	1	COUPLING, 1/4 ANCHOR W/1" HEX		
2	86002480	22090	2	CONNECTOR, 1/8FPT X 1/4 TUBEQC		
3	86003470	31072	1	ELBOW, SWIVEL, 1/4MPTX1/4TUBE		
4	86003490	31074	1	ELBOW, SWIVEL, 3/8MPTX3/8TUBEQC		
5	86004570	44067	2	JET BODY, MINI PROMAX BODY		
6	86241680	44073	2	JET, MINI PROMAX 9503		
7	86005640	57030	2	NUT, 10-32 HEX NYLOCK		
8	86026390	65201	1	PUMP ASM, 115V 100PSI W/CONN	1000167303	
9	86250140	66288	2	PLUG, 9/16 OD BLK NYLON		
10	86274410	70195	2	SCR, 10-32 X 1.25 PPHMS		
11	86274170	70011	2	SCR, 1/4-20 X 5/8 HHCS SS		
12	86003640	34355	1	FITTING, 1/4 TUBE,"Y", QC		
13	86006360	78419	1	TEE, 3/8 MPT X 3/8 TUBE, QC		
14	86026940	84160	1	VALVE ASM, SOLENOID CLP FAMILY		
15	86010810	87191	2	WASHER, 1/4"IDX1.0OD. FLAT SS		
16	86010650	87018	4	WASHER, #10 X 9/16 OD		
17	86010820	87192	2	WASHER, 7/16 X 3/4 X .19RUBBER		
18	86005590	56014	1	NIPPLE, 1/4 CLOSE		
19	86005580	56012	1	NIPPLE, 1/4 FPT QD		
20	86003500	31076	2	ELBOW, 1/4 MPT X 3/8 TUBE, QC		
21	86274290	70162	2	SCR, 10-32 X 3/8 PPHMS SS		
22	-	OPEN	-	-		
23	86267400	880278	1	WIRE, 22" GRN/18 76011 X 76011		
24	86280850	39529	1	HOSE, 3/8 URETHANE X 29"		
25	86004350	39530	1	HOSE, 3/8 NYLON X 6"		
26	86281900	39531	3	HOSE, 1/4 URETHANE X 6"		
27	86253020	73963	1	SCREEN, INTAKE		
28	86004400	39591	1	HOSE, 3/8 ID NYL11 YLW X 29"		

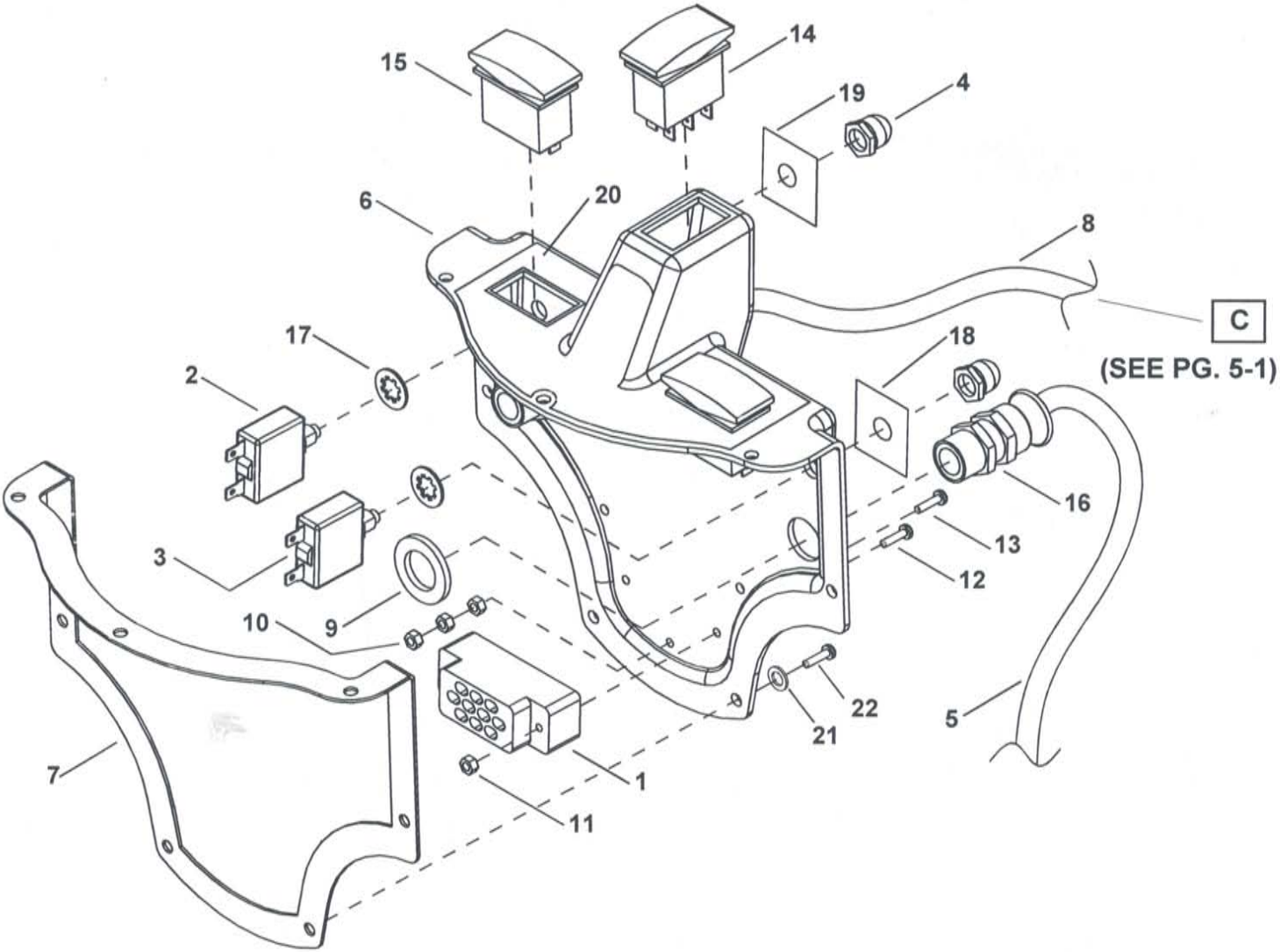
VACUUM SHOE ASSEMBLY



VACUUM SHOE ASSEMBLY

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86227350	05016	4	ARM, VAC SHOE PARALLEL		
2	86234760	27674	1	COVER, ACCESSORY PORT		
3	86005810	57245	4	NUT, 1/4-20 HEX NYLOCK SS		
4	86006790	70351	2	SCR, 10-32 X 3/8 HHTR W/STAR		
5	86275120	70360	4	SCR, 1/4-20 X.75 PPHMS PHIL		
6	86006840	70390	4	SCR, 1/4-20 X 1 FHCS PLTD		
7	86008130	73958	8	SPACER, 3/8ODX.058WX.2814,CRS		
8	86010620	85039	1	VAC SHOE, 15"		
9	-	OPEN	-	-		
10	86010630	87013	4	WASHER, 1/4 ID X 5/8 OD SS		
11	86010700	87074	8	WASHER, WAVE 3/8ID X3/4D X.125		
12	86003780	35171	1	GASKET, ACCESSORY PORT		
13	86008120	73955	2	SPRING, EXT .38D X2.75L X.055W		

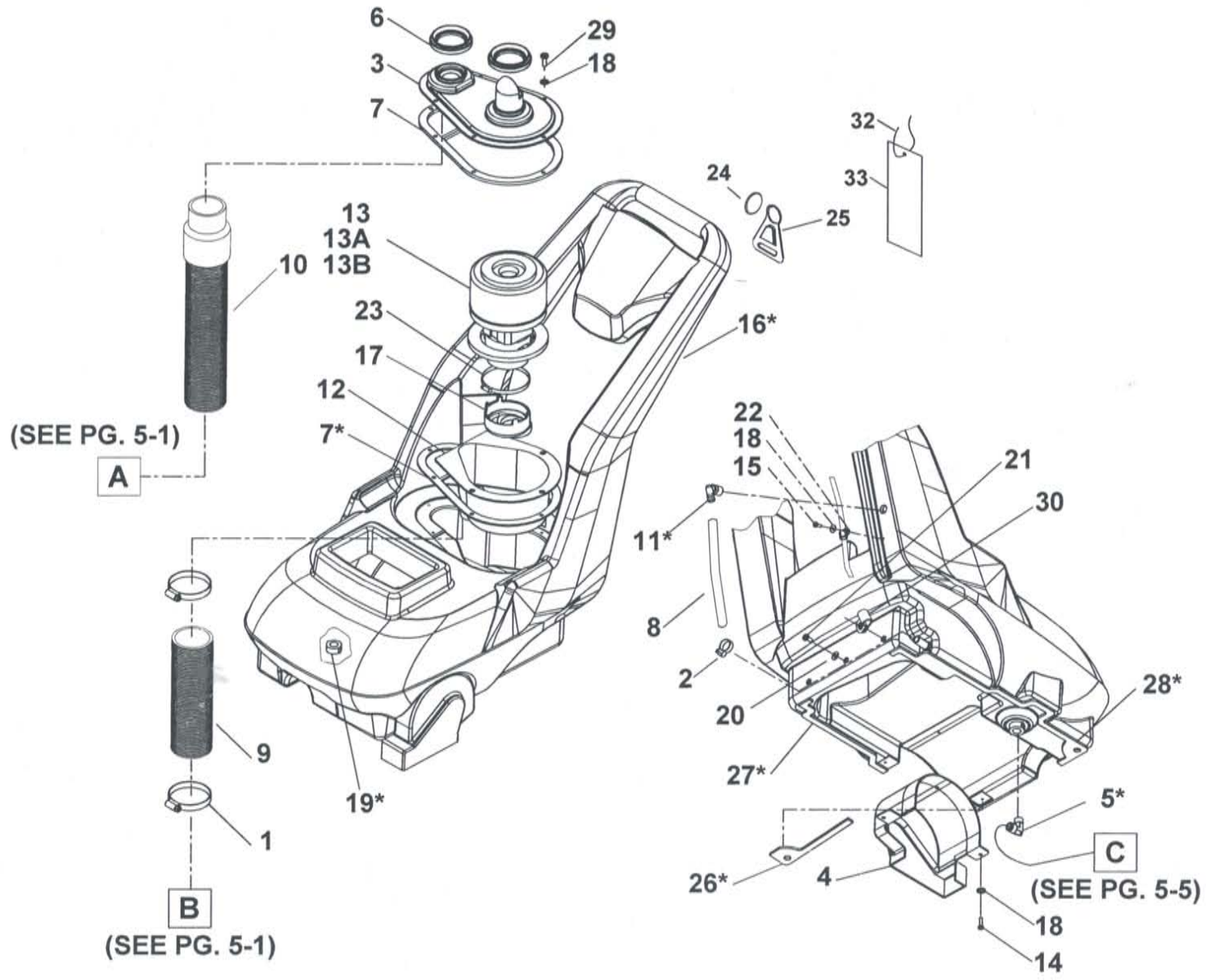
CONTROL PANEL ASSEMBLY



CONTROL PANEL ASSEMBLY

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86001240	14020	1	TERMINAL BLOCK, 115V (3-4-3)		
2	86001980	14700	1	BREAKER, 15A 250VAC 50VDC		
3	86230210	14832	1	BREAKER, 6A VDE CIRCUIT		
4	86002010	14942	2	BOOT, 3/8 CIRCUIT BREAKER		
5	86234320	23679	1	CORD ASM, 14/3 X 22" YLW		
6	86003770	27872	1	COVER, FB8 PANEL		
7	86237730	35247	1	GASKET, FB8 PANEL		
8	86004480	41353	1	HARNESS, MAIN		
9	86005670	57040	2	NUT, 1/2 NPT CONDUIT		
10	86005700	57104	3	NUT, 10-32 W/STAR WASHER PLTD		
11	86005760	57116	2	NUT, 6-32 W/STAR WASHER PLTD		
12	86006170	70235	2	SCR, 6-32 X 1.0 PH BLK NYLON		
13	86273980	70066	1	SCR, 10-32 X 3/4 PPHMS		
14	86007120	72126	1	SWITCH, DPDT 3-POSITION ROCKER		
15	86007140	72130	2	SWITCH, SPST 2-POSITION ROCKER		
16	86256240	73505	2	STRAIN RELIEF, 1/2 NPT TRUMPET		
17	86010750	87100	2	WASHER, 3/8 ID INT.LOCK THIN		
18	86242880	500226	3	LABEL, CIRCUIT BREAKER BRUSH		
19	86242870	500225	1	LABEL, CIRCUIT BREAKER VAC		
20	86242680	500154	1	LABEL, CONTROL PANEL		
21	86010800	87189	7	WASHER, .2 ID X .500 BLK SS		
22	86276290	70626	7	SCR, #10 X 3/4 PPHST HI-LO BLK		

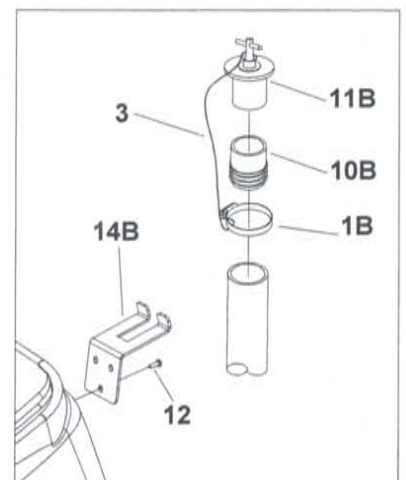
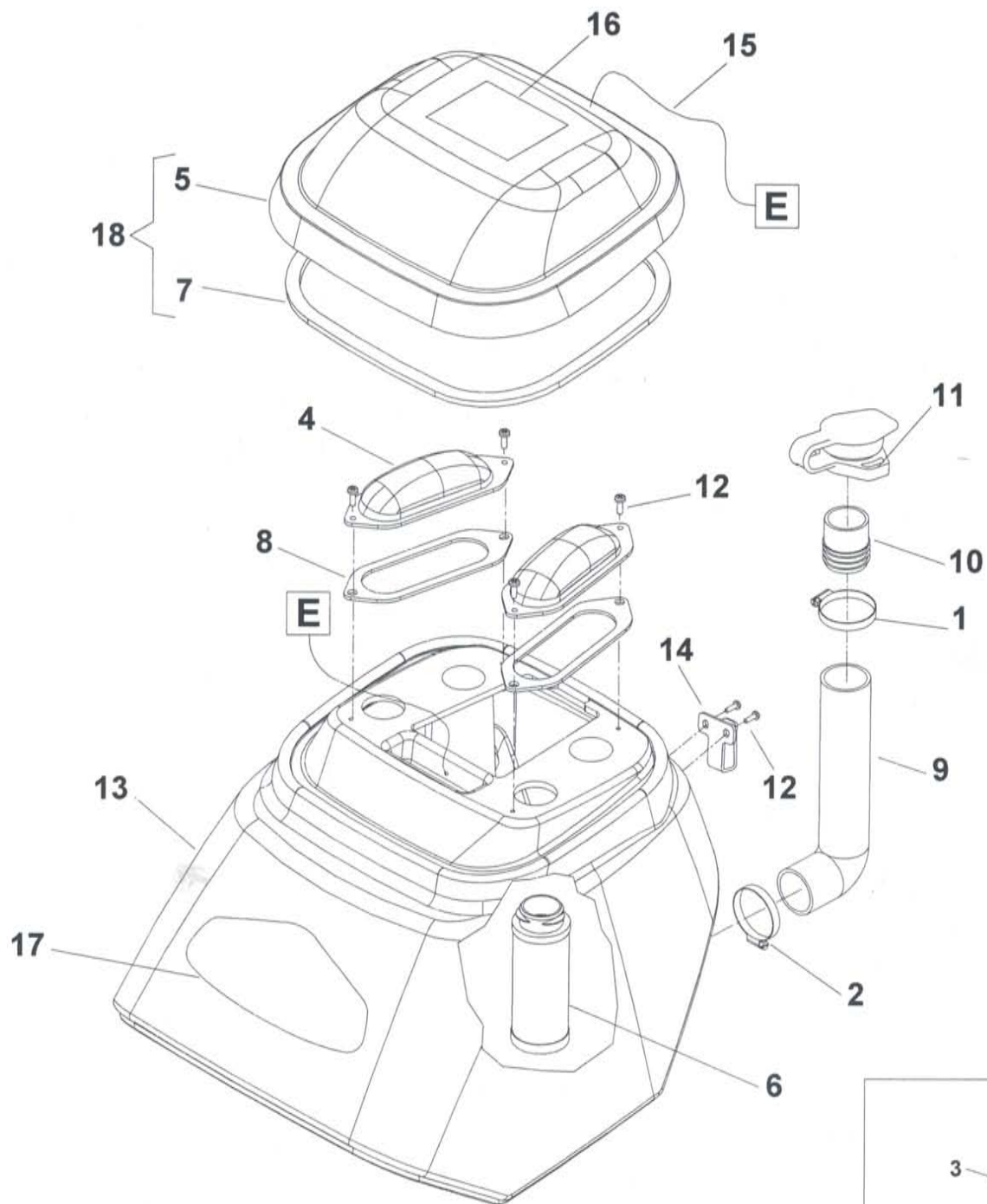
SOLUTION TANK ASSEMBLY



SOLUTION TANK ASSEMBLY

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86233140	20041	3	CLAMP, 2.0" WORM GEAR		
2	86233150	20042	1	CLAMP, 3/8 HOSE (D-SLOT)		
3	86003080	27809	1	COVER, VAC MOTOR		
4	86003090	27810	1	COVER, BELT		
5	86235500	31081	1	ELBOW, 3/8 MPT X 3/8 TUBE, PLASTIC		
6	86003790	35175	2	GASKET, TANK TO VAC COVER		
7	86003920	35231	2	GASKET, VAC COVER		
8	86281880	39526	1	HOSE, 1/2 CLEAR X 12		
9	86240090	39527	1	HOSE, 1.5 BLK VAC X 3.0		
10	86004340	39528	REF	HOSE ASM, 1.5 BLK VAC X 15.5		
11	86235500	31081	1	HOSEBARB		
12	86240980	41348	1	HOUSING, VAC MOTOR		
13	86026880	53789	1	VAC MOTOR ASM		
13A	86135340	14258		BRUSH SET, 120V 5.7 VAC, AMETEK	*	SERVICE ONLY
13B	86135320	140687		BRUCH SET, 120V VAC, WINDSOR	*	SERVICE ONLY
14	86006600	70114	2	SCR, #10 X 3/4 PPHST TYPE B		
15	86006590	70088	2	SCR, 10-32 X 1/2 PPHMS SS		
16	86032320	75268	1	TANK, FB8 SOLUTION		
17	86259060	85037	1	VENT, COOLING AIR SMALL		
18	86010650	87018	10	WASHER, #10 X 9/16 OD		
19	86007970	73864	1	STRAINER, 3/8 IN. NPT 60 MESH		
20	86010630	87013	3	WASHER, 1/4 ID X 5/8 OD SS		
21	86006580	70085	3	SCR, 1/4-20 X 1/2 PPHMS SS DL		
22	86002370	20035	2	CLAMP, 7/16 DIA NYLON UL		
23	86233260	20092	1	CLAMP, 3.5" WORM GEAR		
24	86272840	67147	1	RING, 2" DIA SPLIT		
25	86256170	73169	1	STRAIN RELIEF, CORD HOOK		
26	86003950	35236	1	GASKET, TANK, L-F		
27	86003960	35237	1	GASKET, TANK, L-R		
28	86003970	35238	1	GASKET, TANK, RH		
29	86275690	70525	6	SCR, #10 X 1.0 PPHST TYPE B		
30	86177090	03-000261	1	CLAMP, CABLE 1/2 ID 1/4BLT		
31	86032440	75318	1	TANK ASM, SOLUTION		*ITEMS
32	86002870	27417	1	CORD, 99807 1/8 X 12"		
33	86232310	500191	1	CARD, INSTRUCTION		

RECOVERY TANK ASSEMBLY



RECOVERY TANK ASSEMBLY

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1A	86002400	20064	1	CLAMP, 2.0" WORM GEAR X .312	*	
1B	86002350	20002	1	CLAMP, 2.0" NYLON RATCHET		
2	86233140	20041	1	CLAMP, 2.0" WORM GEAR		
3	86008400	78499	1	CORD, DRAIN HOSE		
4	86003110	27816	2	COVER, REC. TANK		
5	86235280	28060	1	DOME, CLP FAMILY		
6	86003630	34351	1	FLOAT SHUT-OFF		
7	86003910	35230	1	GASKET, DOME		
8	86003930	35232	2	GASKET, PORT COVER		
9	86004200	39353	1	HOSE, 1.5 X 12.0 DRAIN		
10A	86004510	41391	1	HOSE, INSERT	*	
10B	86004450	40019	1	HOSEBARB, 1.5 DOUBLE MCHD		
11A	86004500	41390	1	HOSE, CAP	*	
11B	86006240	66227	1	PLUG, DRAIN HOSE		
12	86006600	70114	6	SCR, #10 X 3/4 PPHST TYPE B		
13	86032250	75258	1	TANK, CDT RECOVERY		
14A	86001370	140408	1	BRKT, HOSE HOOK	*	
14B	86001190	140133	1	BRKT, RECOVERY HOSE MTG		
15	86002870	27417	1	CORD, 99807 1/8 X 12"		
16	86242230	500009	1	LABEL, WARNING		
17	86242890	500229	1	LABEL, MAIN		
18	86003330	28061	1	DOME ASM, CLP FAM		

SUGGESTED SPARE PARTS

PART NO.	PRV NO	DESCRIPTION	SERIAL # FROM	NOTES:
86001140	12514	BRUSH, 15L X 3.38OD		
86001100	11045	BELT, 180J6 MICRO-V		
86000900	09019	BEARING, 1.125ODX.500IDX.375		
86004570	44067	JET BODY, MINI PROMAX BODY		
86241680	44073	JET, MINI PROMAX 9503		
86026390	65201	PUMP ASM		
86026940	84160	VALVE ASM, SOLENOID CLP FAMILY		
86003790	35171	GASKET, ACCESSORY PORT		
86001980	14700	BREAKER, 15A 250VAC 50 VDC		
86230210	14832	BREAKER, 6A VDE CIRCUIT		
86007140	72130	SWITCH, SPST 2-POSITION ROCKER		
86007120	72126	SWITCH, DPDT 3-POSITION ROCKER		
86026880	53789	VAC MOTOR ASM		
86007970	73864	STRAINER, 3/8 IN. NPT 60 MESH		
86003630	34351	FLOAT, SHUT-OFF		
86003330	28061	DOME ASM		
86006240	66227	PLUG, DRAIN HOSE		
86135340	14258	BRUSH SET, 120V VAC, AMETEK	*	
86135320	140687	BRUSH SET, 120V VAC, WINDSOR	*	