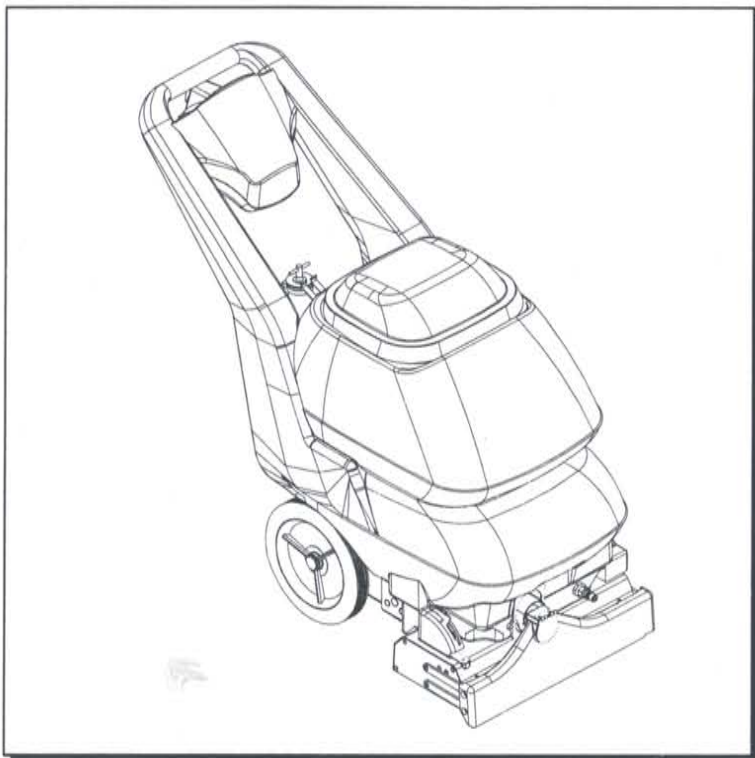


# *Fiber* PRO 8<sup>TM</sup>

**BETCO.**

## **CARPET EXTRACTOR**



Operating Instructions

**MODEL:** BFP8  
10080210

---

*Read these instructions before operating the machine*

W

86038500 05/11/07

PRV NO. 98778

# 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.

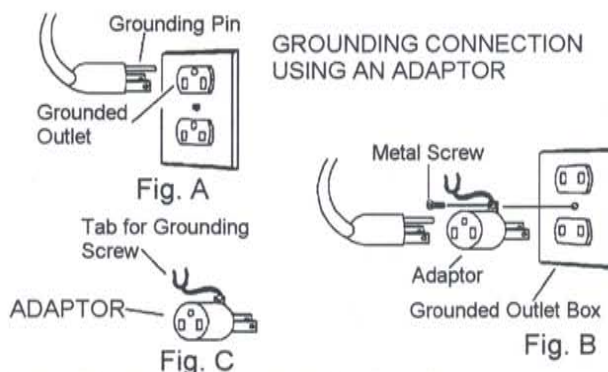
### EXTENSION CORDS:

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)

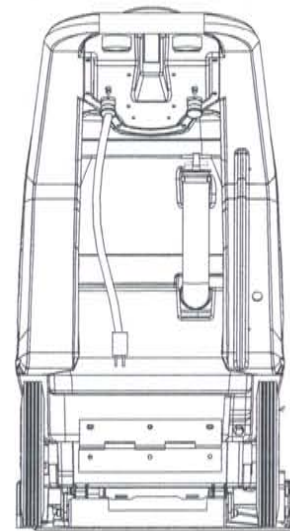
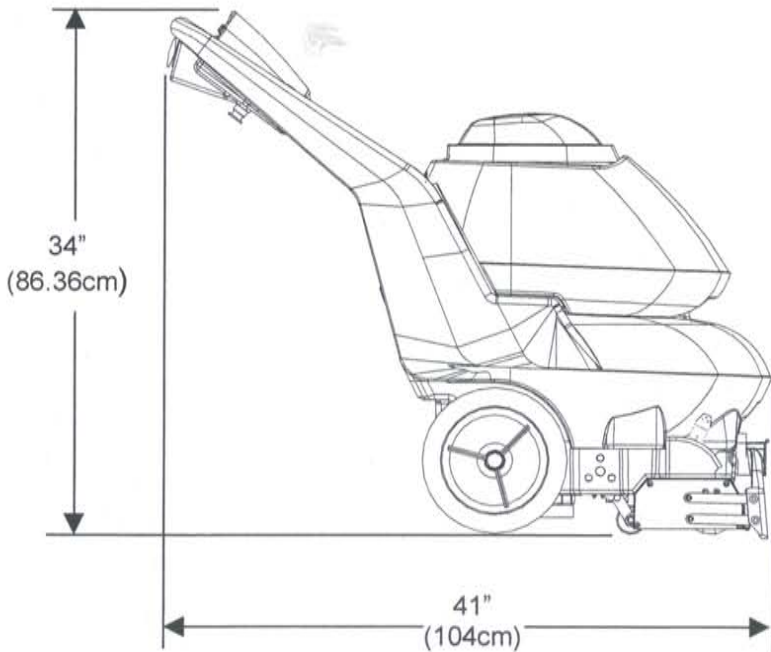
**LENGTH:** 41" (104 cm)

**HEIGHT:** 34" (86.36 cm)

**WIDTH:** 17.5" (44.45 cm)

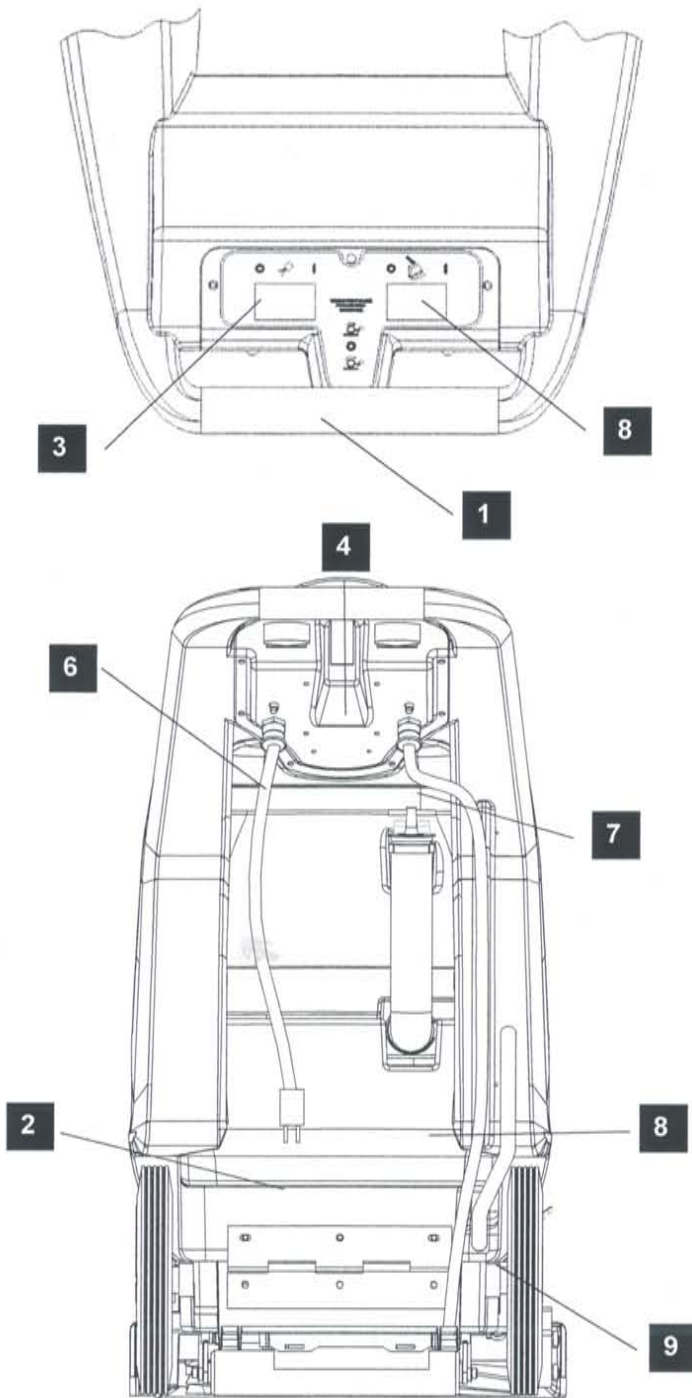
**SOLUTION SPRAY:** 2 quick change jets.

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





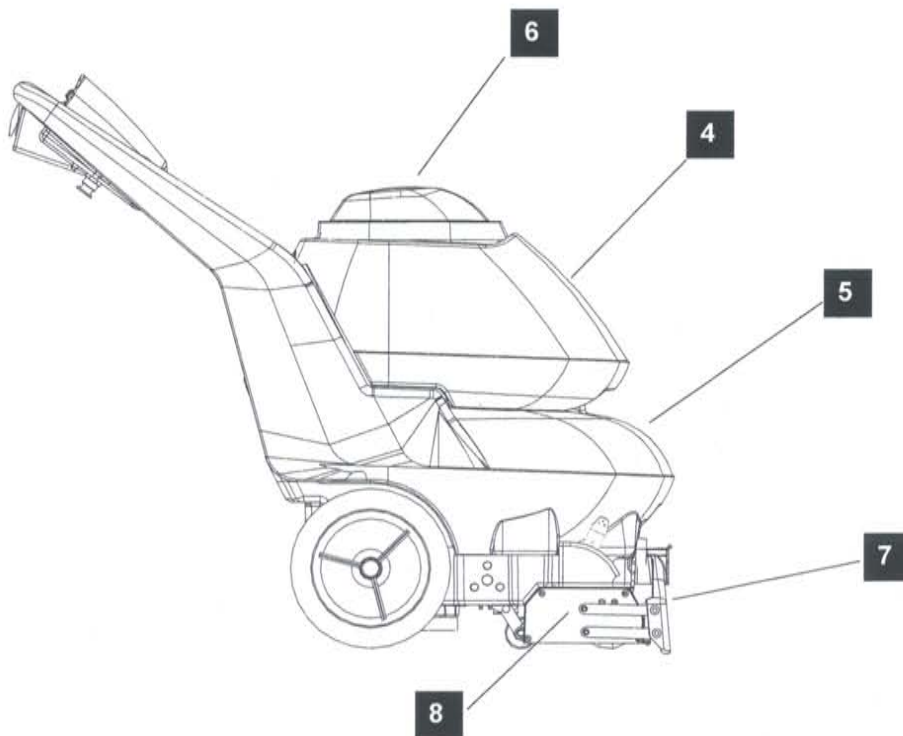
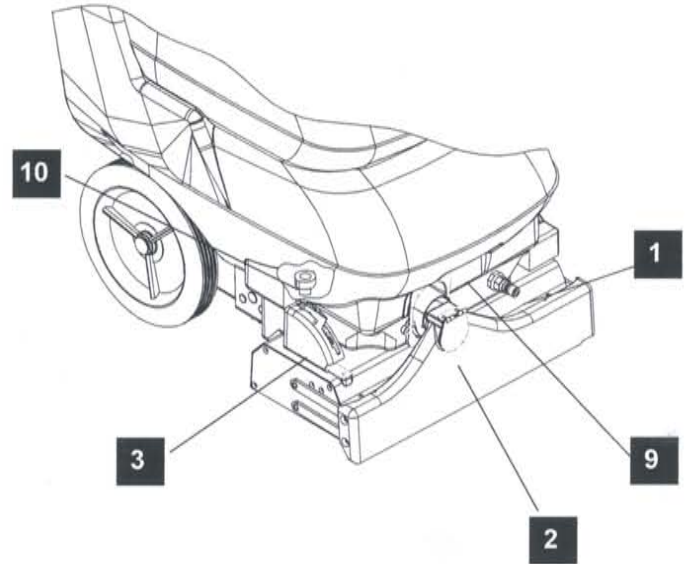
## CONTROLS/COMPONENT LOCATIONS



- 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.

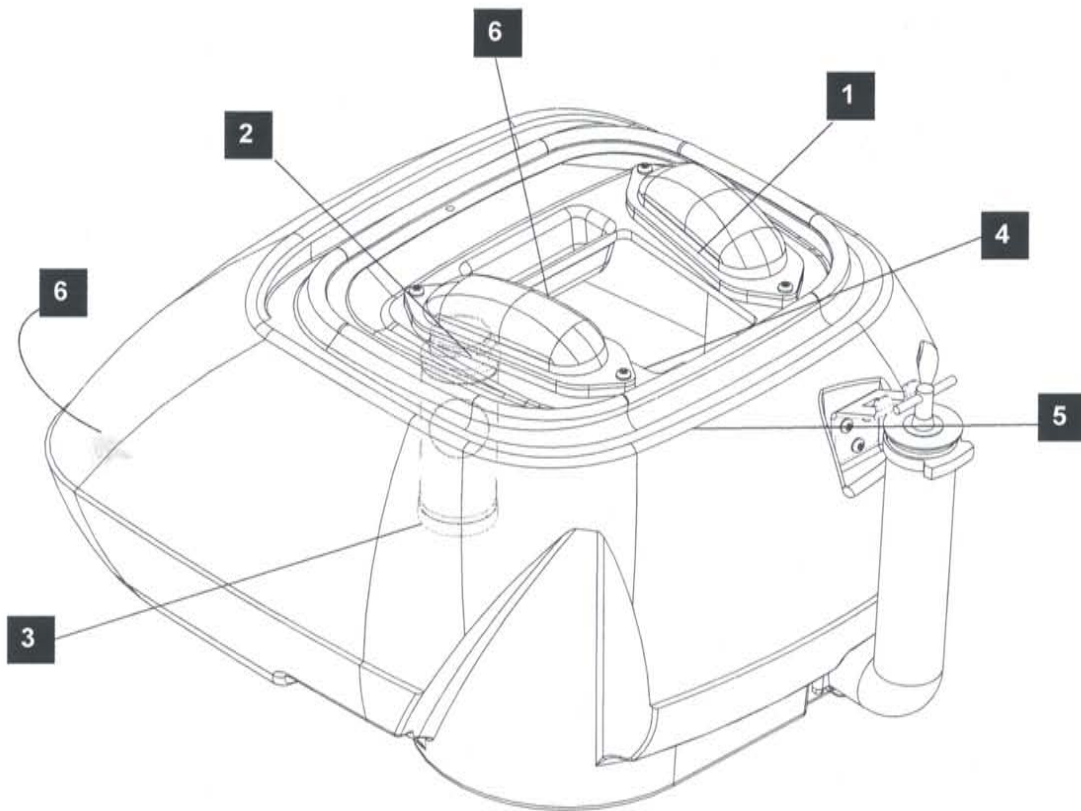
## CONTROLS/COMPONENT LOCATIONS

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.**

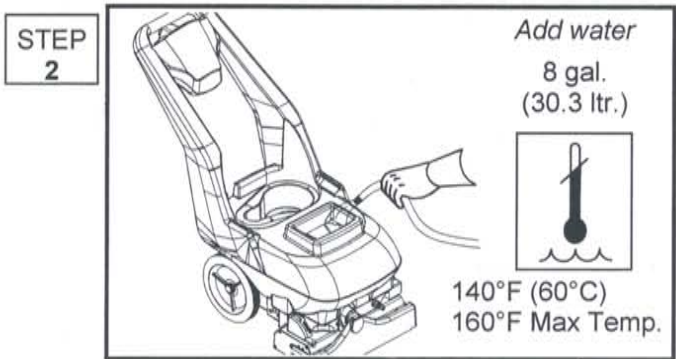
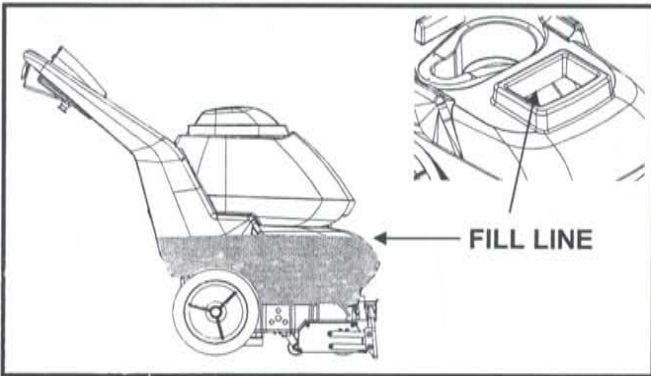
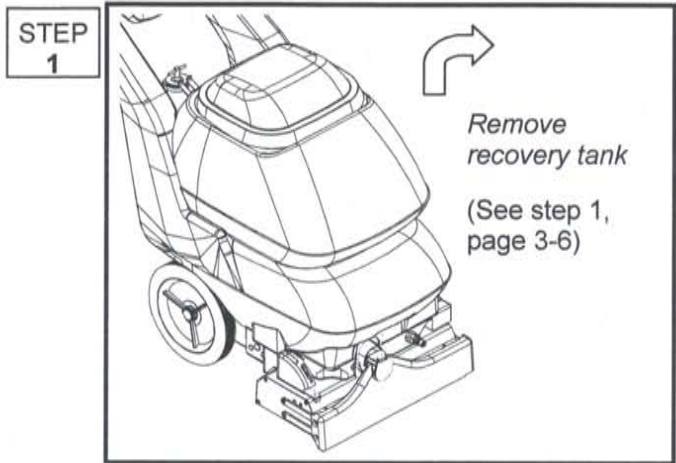
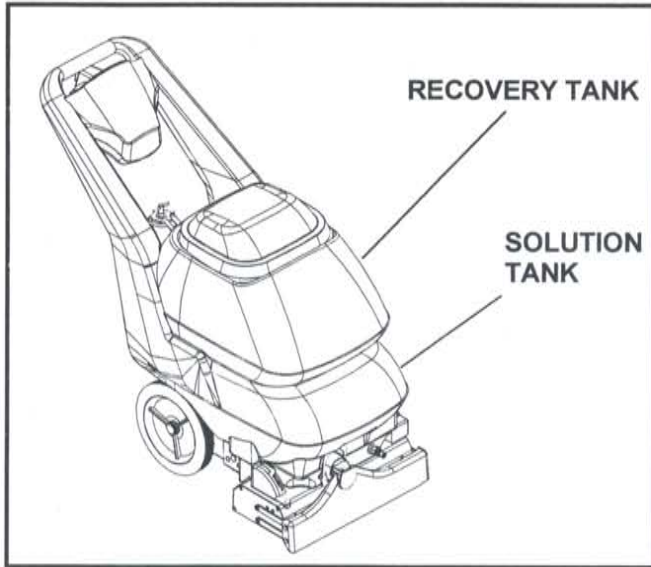


## CONTROLS/COMPONENT LOCATIONS

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



# FILLING OPERATIONS

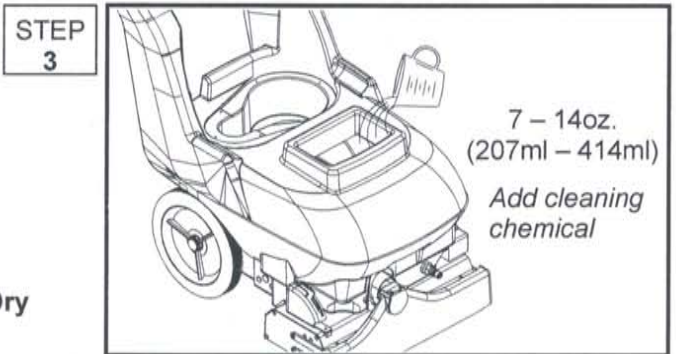


## FILLING THE BFP8

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.



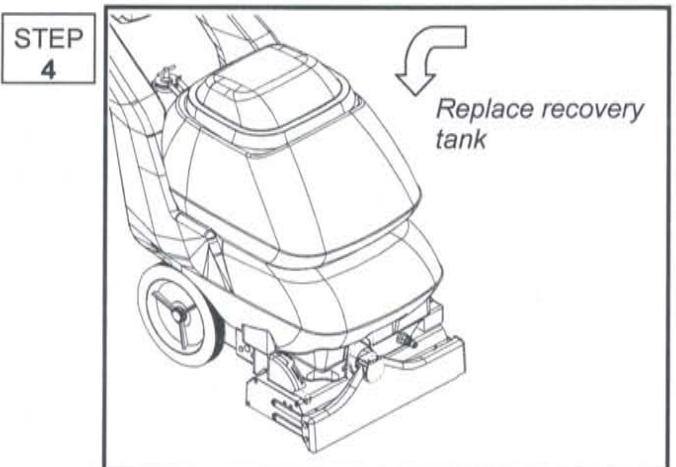
## CHEMICALS

### Suitable Chemicals

Alkalis  
Detergents  
Hydroxides  
Soaps  
Vinegar

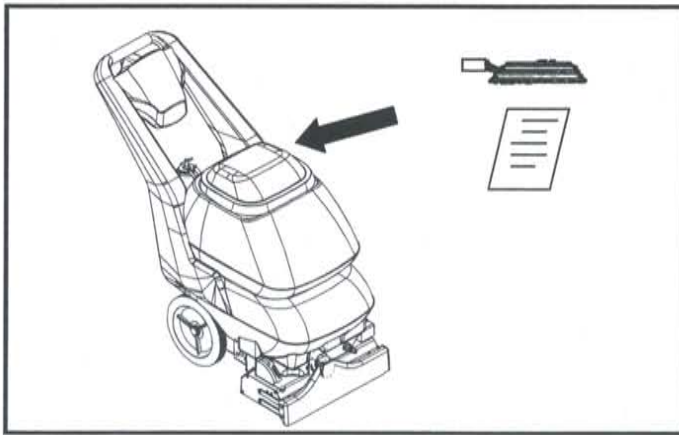
### Non-Compatible Chemicals

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

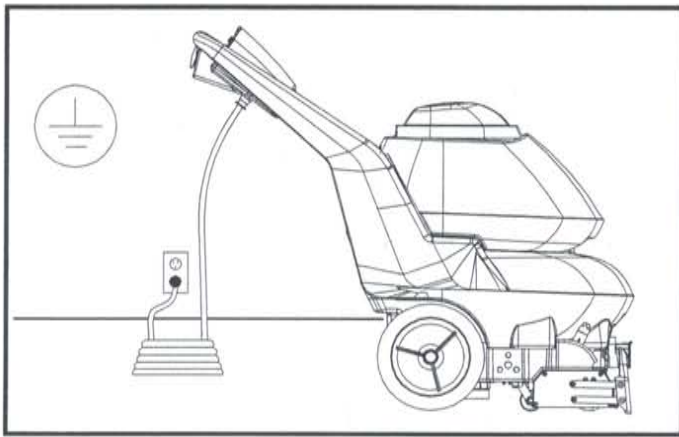


\* Product Trademark Names

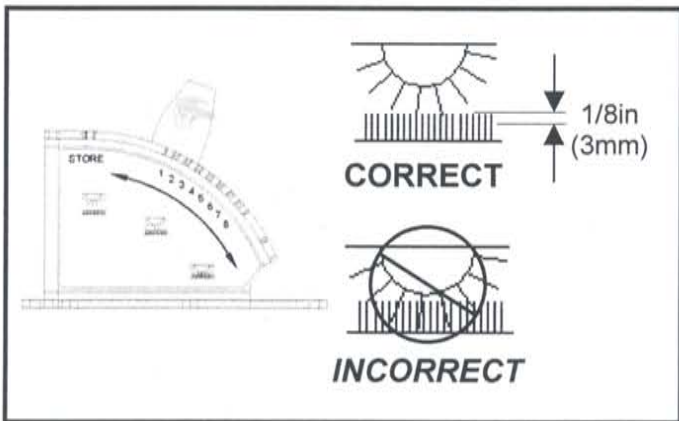
# OPERATIONS



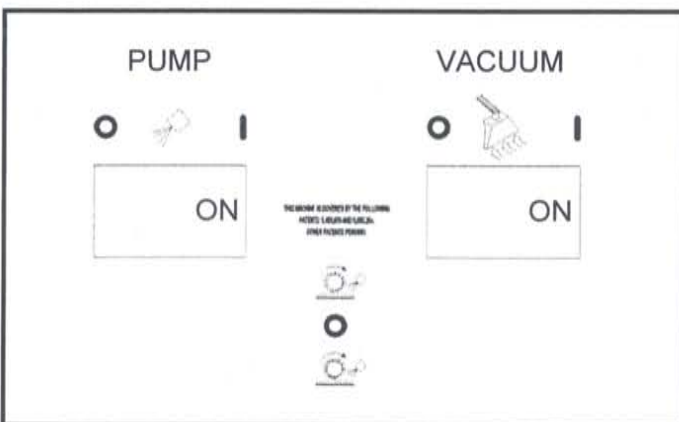
**STEP 1** Remove electrical cord and literature from recovery tank. Fill solution tank (see filling instructions page 3-5).



**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.*

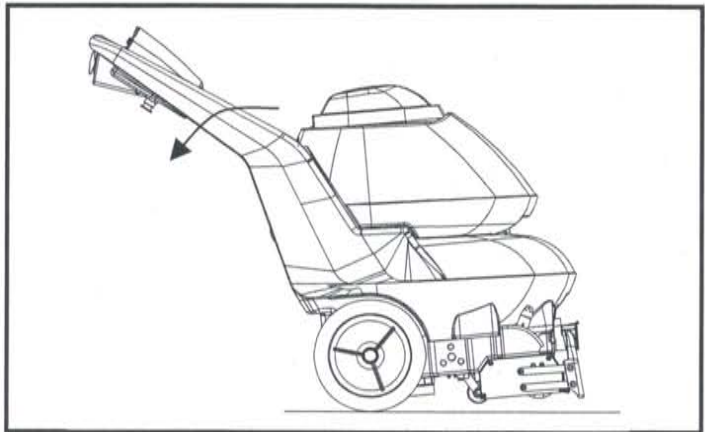


**STEP 4** Turn on both Vacuum and Pump motor switches ("ON"="I").

## OPERATIONS

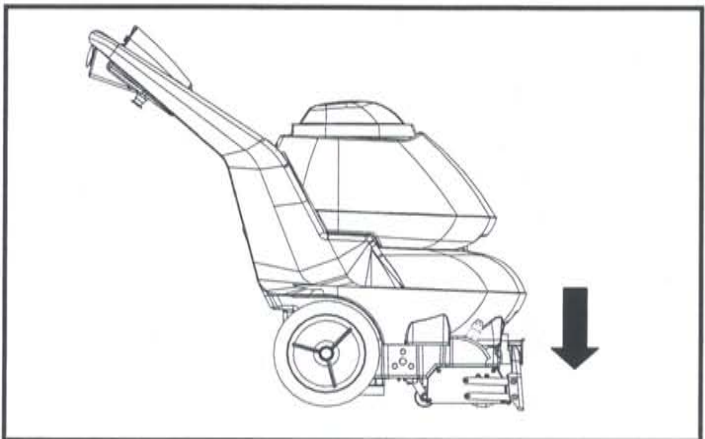
Tip machine back by main handle to move to starting point.

STEP  
5



Lower machine to floor.

STEP  
6

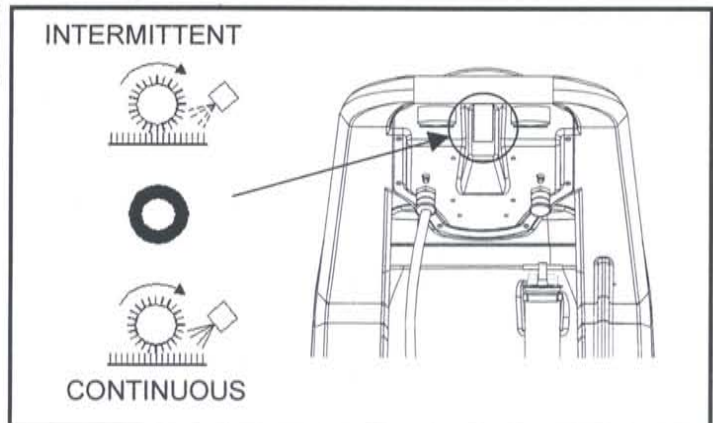


Select intermittent or continuous switch setting to turn on brush and start solution spray.

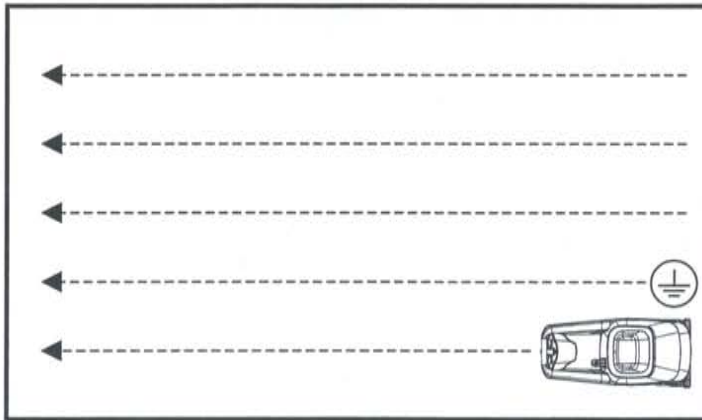
The intermittent setting requires the operator to hold the switch in the "on" position with the thumb, and is typically used in small areas where short cleaning passes are made.

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

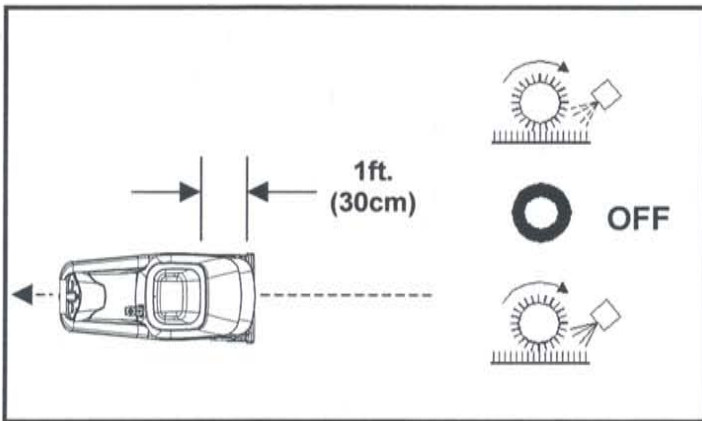


## CLEANING PROCEDURE



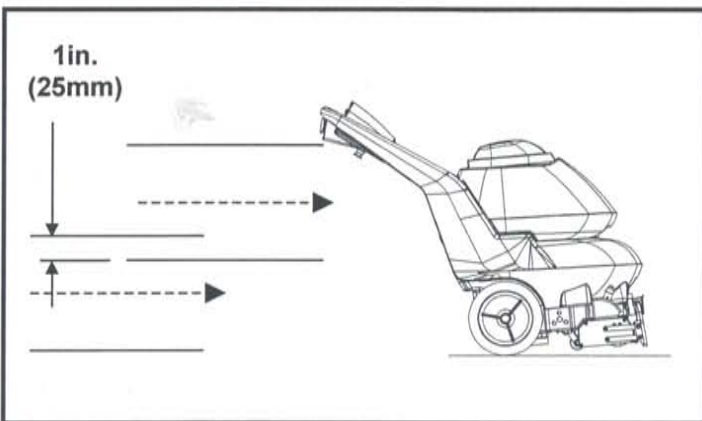
STEP  
1

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



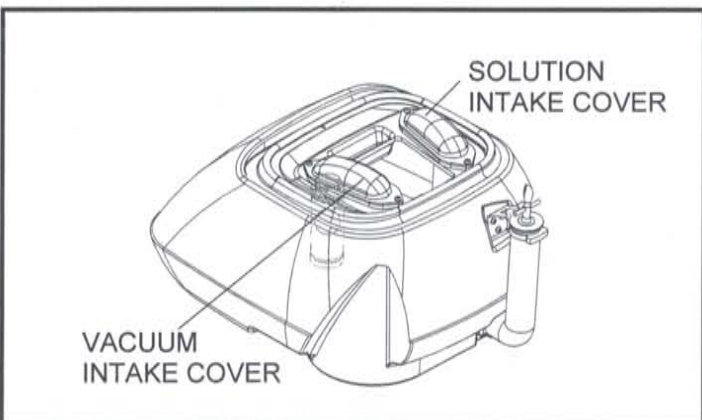
STEP  
2

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 1inch.



STEP  
4

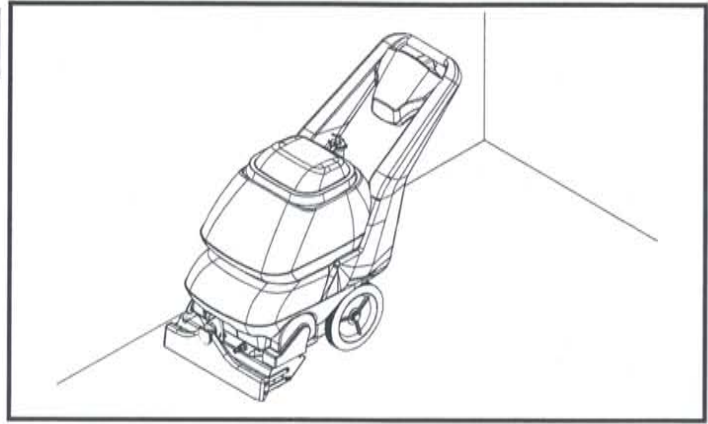
During operation, observe the following: The BFP 8 is equipped with clear internal covers to facilitate operator viewing of dirty solution and vacuum air flow.

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

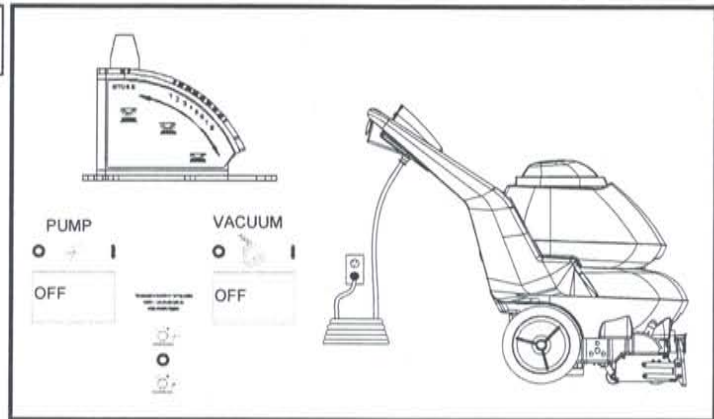
Use right side of machine for cleaning against walls.

STEP  
5



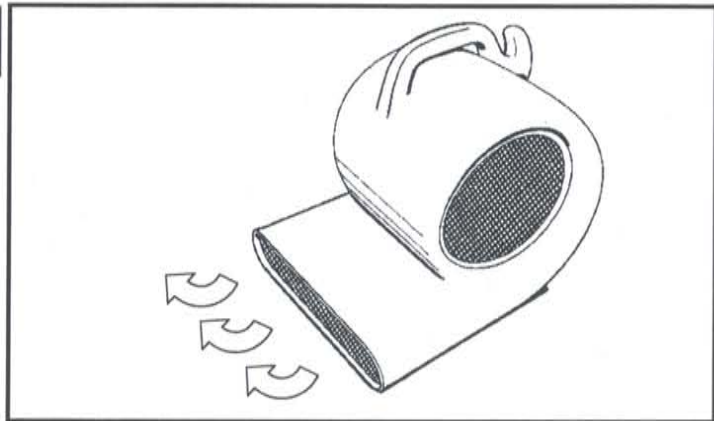
After cleaning, turn off all controls, return brush to storage position and carefully unplug machine.

STEP  
6



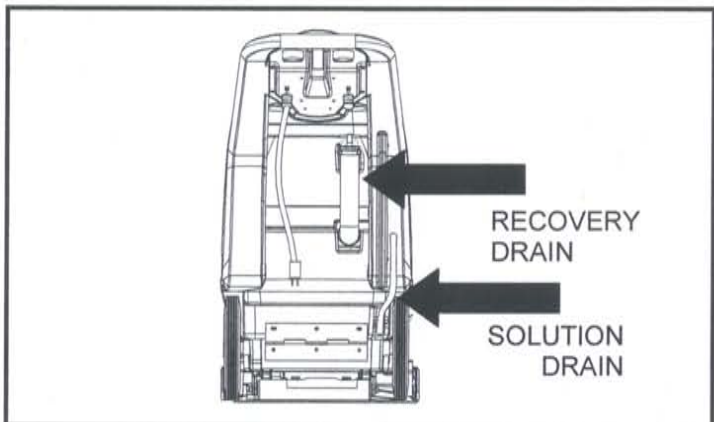
To speed drying, use a fan.

STEP  
7



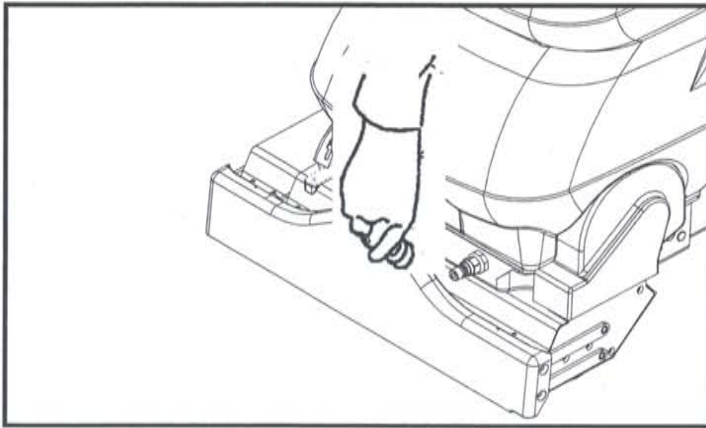
Empty recovery tank by releasing dump hose. Use a hose with cold water to clean out the recovery tank. Also drain solution tank after each use.

STEP  
8



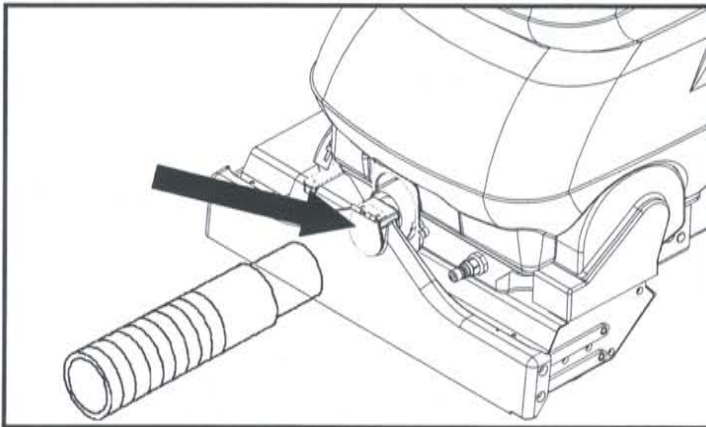


## ACCESSORY TOOL USAGE



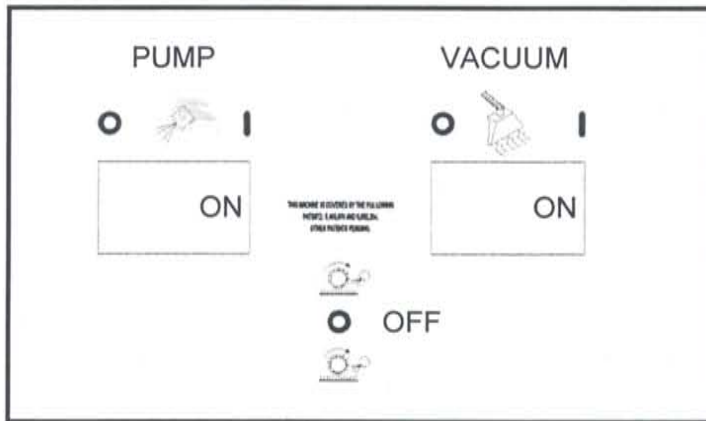
STEP  
1

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



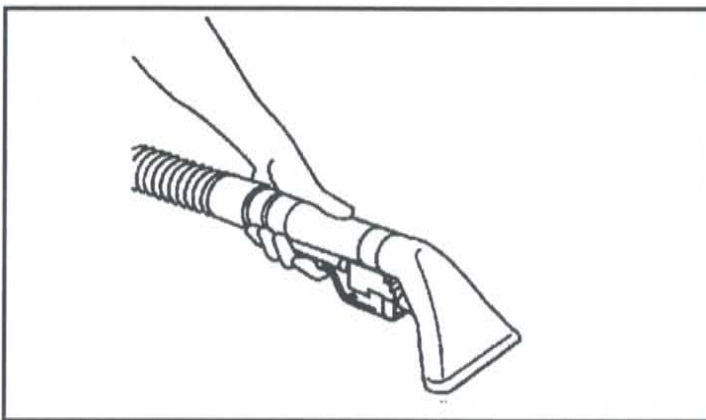
STEP  
2

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.*



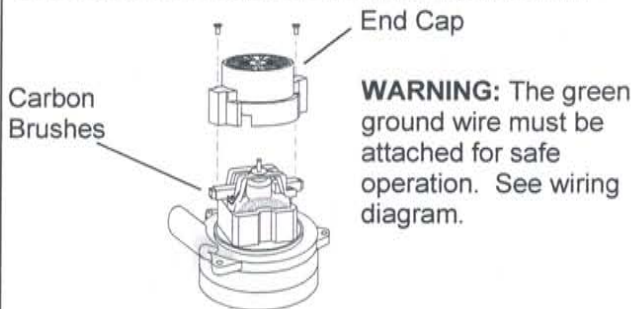
## WARNING:

ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

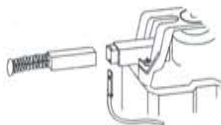
### VACUUM MOTOR REPLACEMENT

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

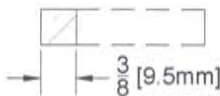


If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center.



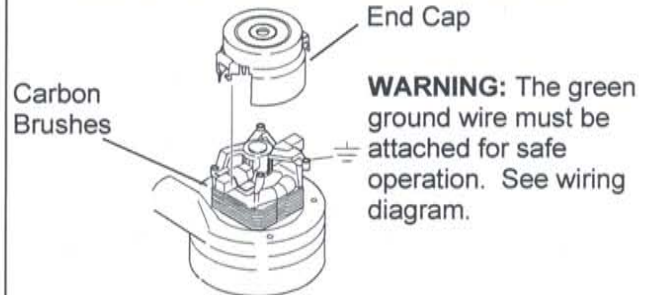
#### Important:

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.

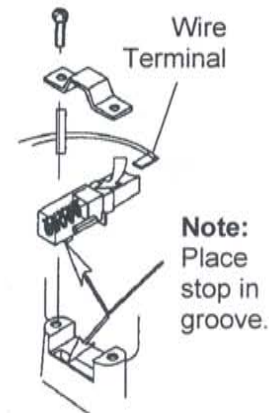


Periodically check the length of the carbon brushes. Replace both carbon brushes when either is less than 3/8" (9.5mm) long.

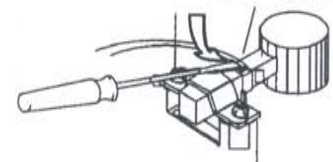
#### Vacuum Motor Carbon Brushes Replacement



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

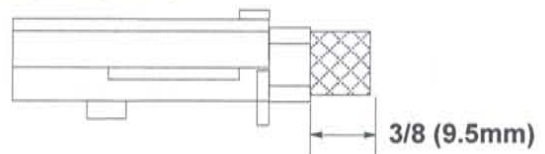


If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center.



#### Important:

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



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

## MAINTENANCE

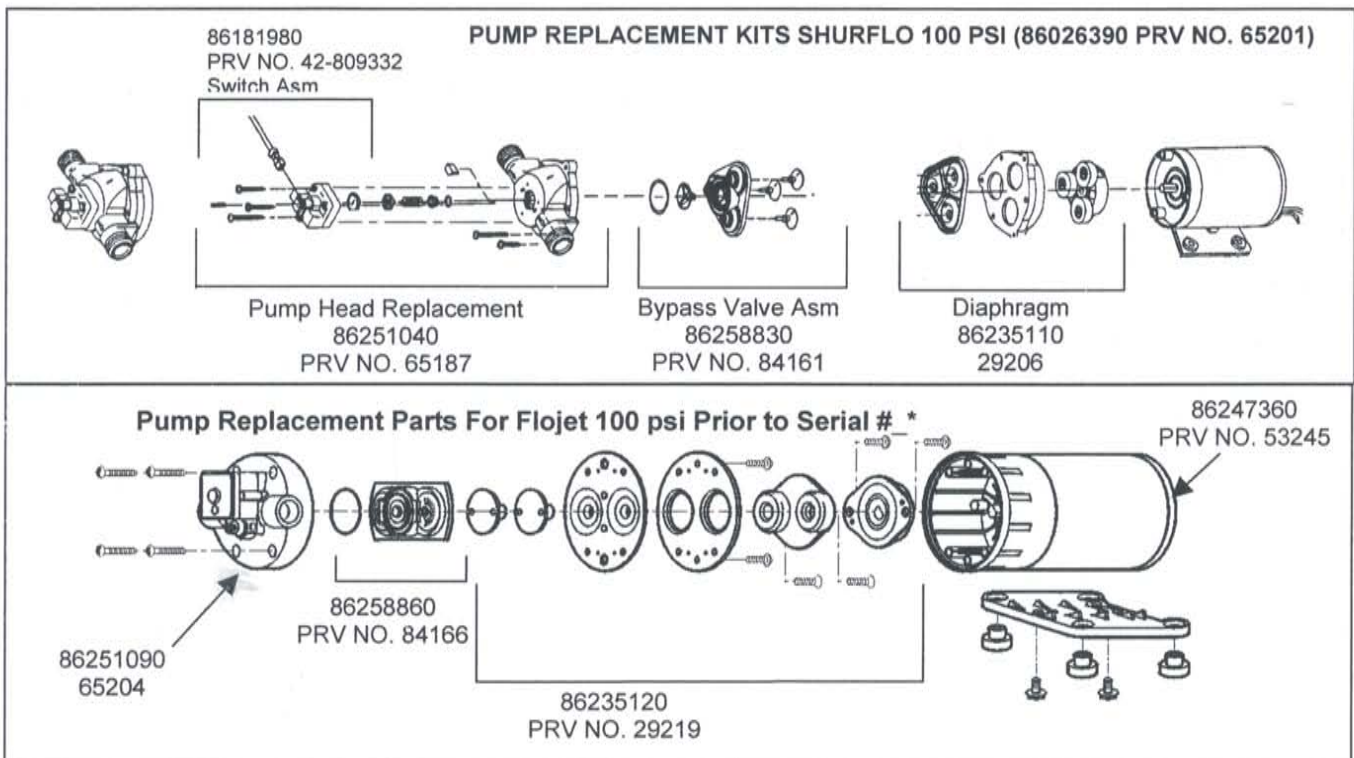


### WARNING:

ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

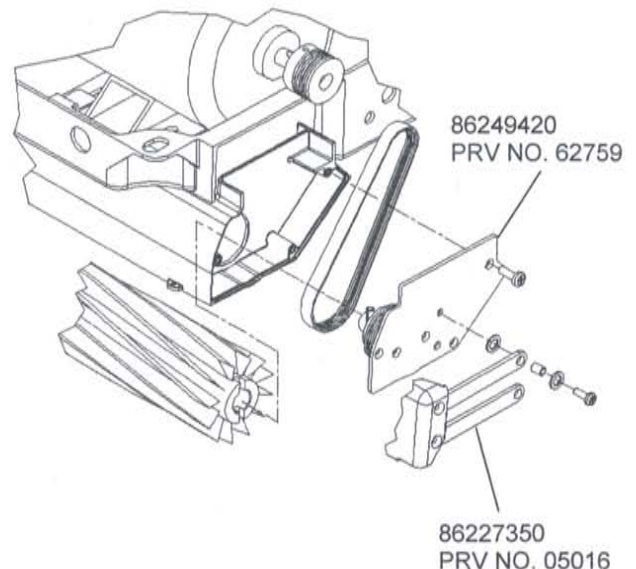
#### SOLUTION PUMP REPLACEMENT

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.

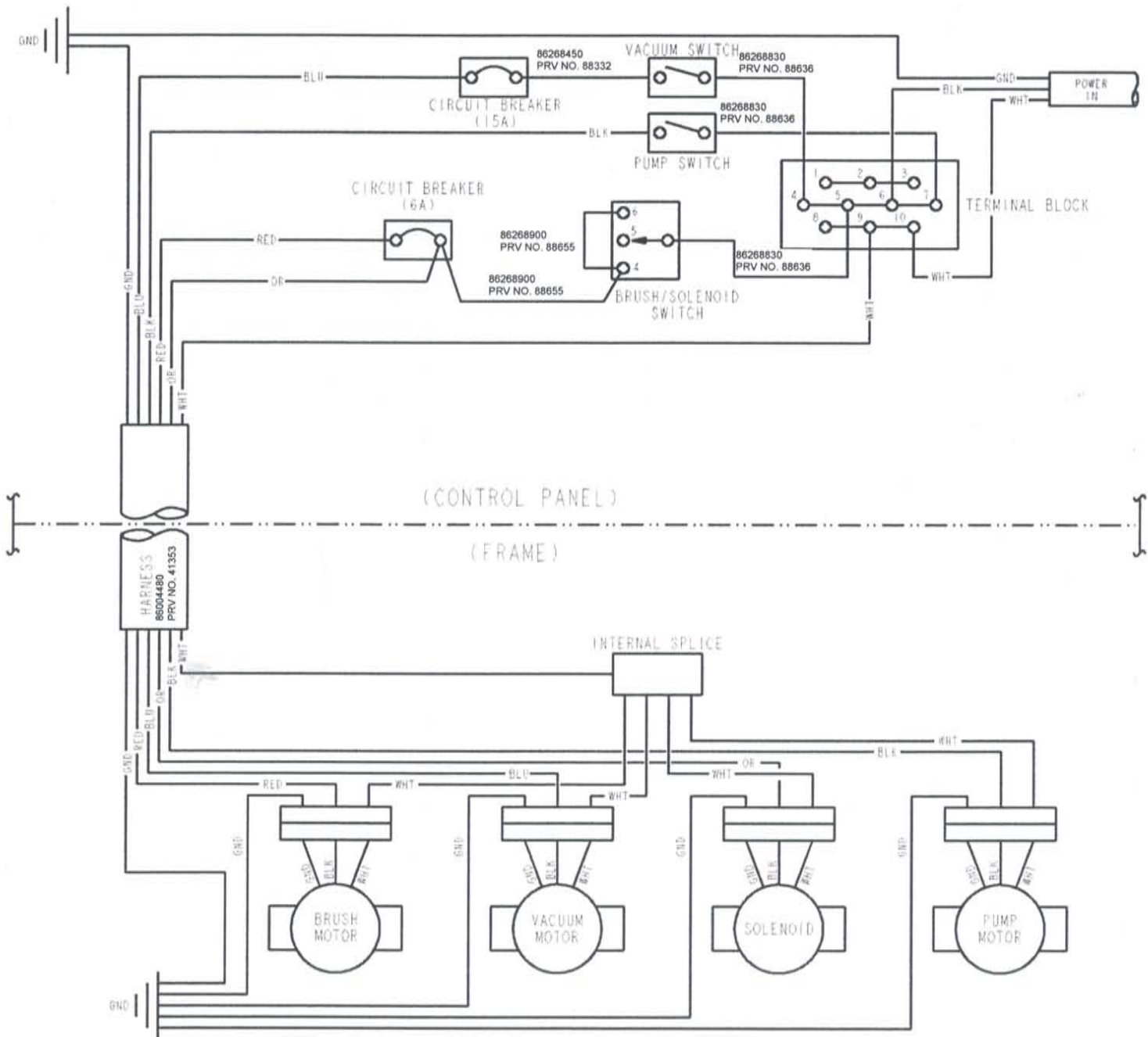


#### BELT REPLACEMENT

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

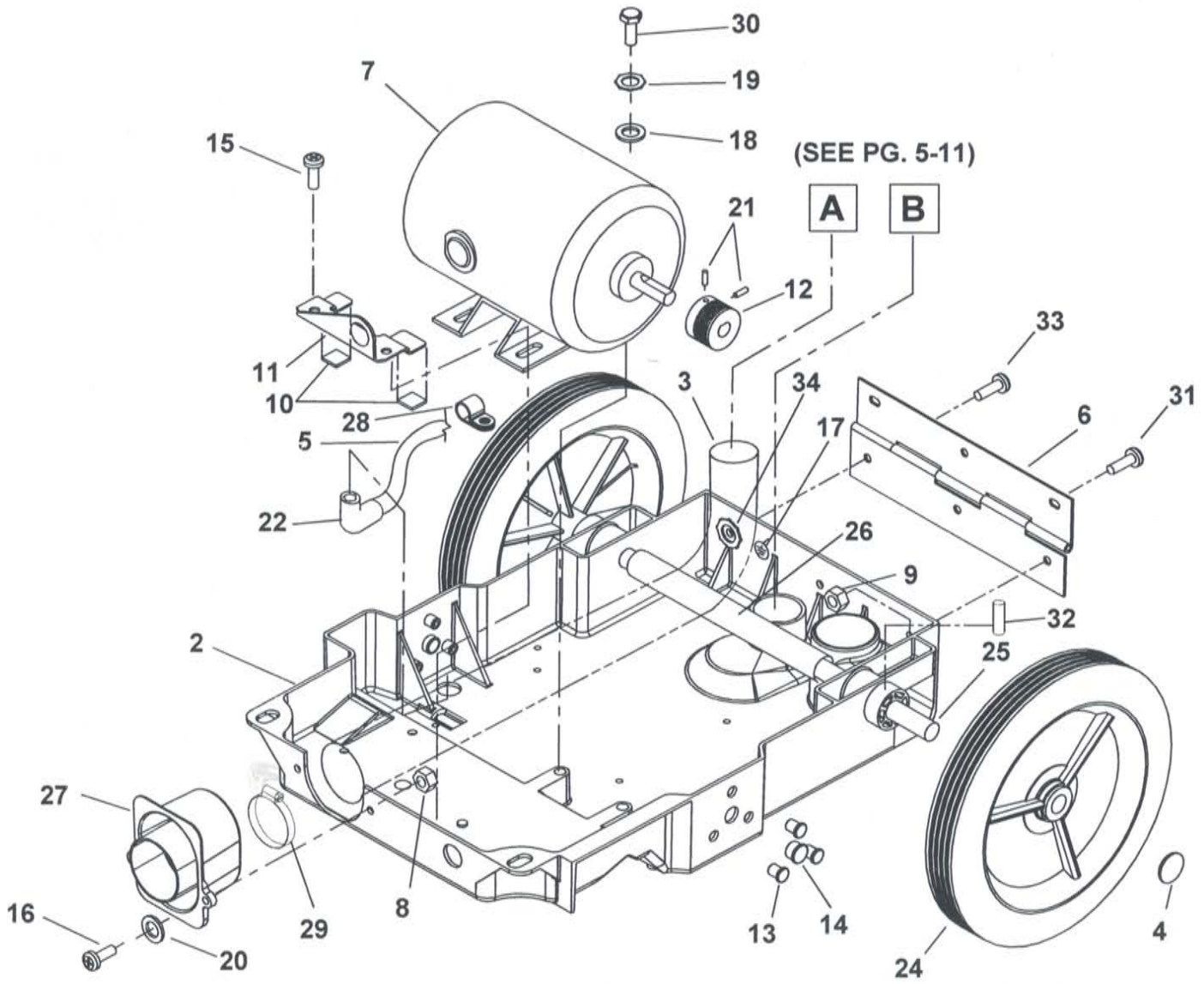


## TROUBLESHOOTING CHART

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

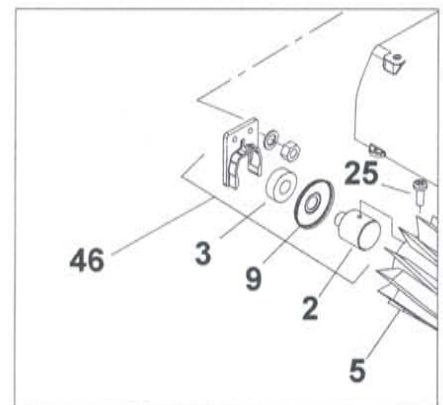
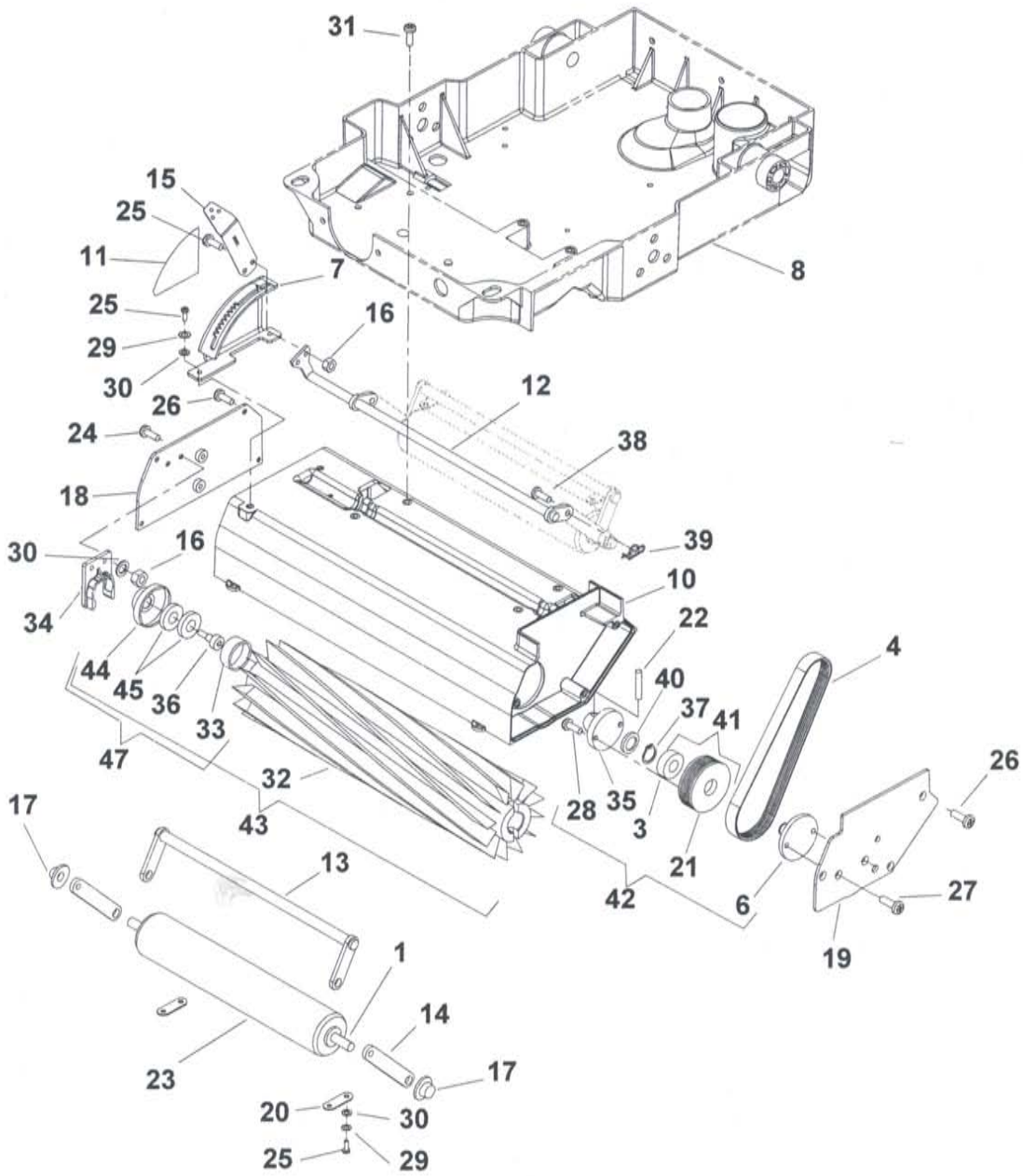




*FRAME ASSEMBLY*

Item	SKU	QTY	Description
1	OPEN	-	-
2	E87724	1	FRAME
3	E87751	1	HOSE ASM, 1.5 BLK VAC X 15.5
4	E87475	2	HUBCAP, 5/8" SHAFT
5	E87486	1	HARNESS, MAIN
6	41354	1	HINGE, TANK TO FRAME
7	E87677	1	MOTOR ASM, BRUSH
8	E87515	2	NUT, 10-32 HEX NYLOCK
9	E87575	3	NUT, 1/4-20 HEX NYLOCK SS
10	99809	2	FOAM TAPE, 1/8 THK X 3/4 1SDA
11	62761	1	PLATE, BRUSH MTR CLAMP
12	E87493	1	PULLEY, 1.4 OD, 6GR, MICRO-V
13	66282	6	PLUG, HOLE, .375" BLK
14	66288	2	PLUG, 9/16 OD BLK NYLON
15	70643	2	SCR, 1/4-20 X 3/8" PPHMS
16	70066	2	SCR, 10-32 X 3/4 PPHMS
17	50279	1	LABEL, GROUND SYMBOL
18	E87414	2	WASHER, 1/4 ID X 5/8 OD SS
19	E87247	2	WASHER, 1/4 LOCK EXT STAR SS
20	E87561	2	WASHER, #10 X 9/16 OD
21	E87258	2	SET SCR, 10-32 X 1/4 KCP
22	E87235	1	STRAIN RELIEF, 90 DEGREE
23	OPEN		-
24	E87453	2	WHEEL, 1-15/16 X 10" HOOSIER
25	03107	1	AXLE, 5/8 X 17.06E
26	99667	10"	HEAT SHRINK, 3/4 ID UL/CSA
27	73943	1	SEAL, FRAME/TANK
28	E85412	1	CLAMP, 7/16 DIA NYLON UL
29	E11535	1	CLAMP, 2.0" WORM GEAR
30	70271	2	SCR, 1/4-20 X 1/2 HHCS PLTD
31	70057	2	SCR, 1/4-20 X 1 PPHMS SS
32	66052	1	PIN, ROLL 1/8" X 1.0"L
33	70697	1	SCR, 1/4-20 X 1.25 PPHMS SS
34	E87221	2	NUT, 1/4-20 HEX W/ STAR WASHER

# BRUSH ASSEMBLY



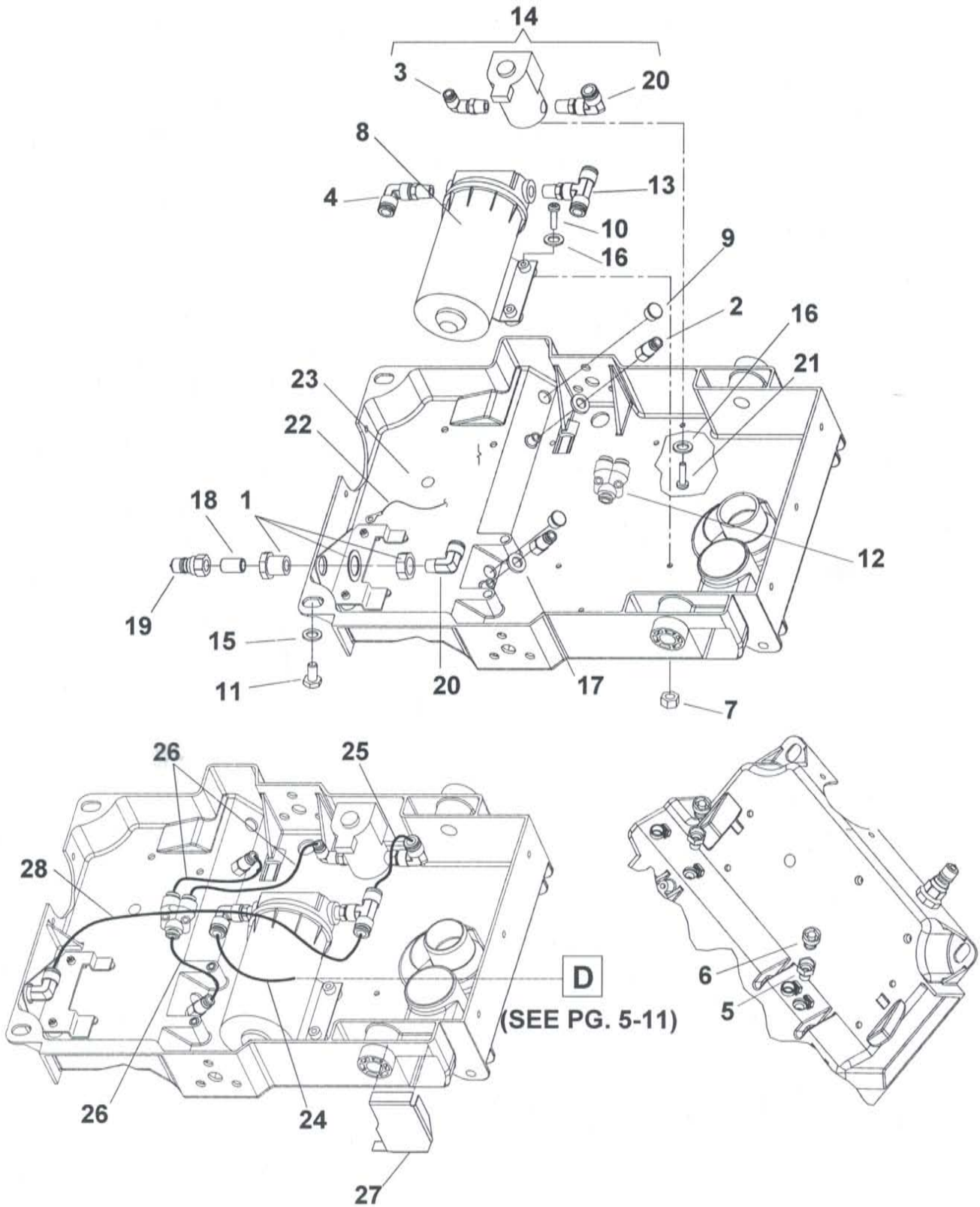
### BRUSH ASSEMBLY

Item	SKU	QTY	Description	FROM Serial #
1	E87455	1	AXLE, ROLLER	
2	E87520	1	ADAPTER, BRUSH BRG.	
3	E87500	2	BEARING, 1.1250DX.5001DX.375	
4	E87501	1	BELT, 180J6 MICRO-V	
5	E87527	1	BRUSH, 15L X 3.38OD	
6	E87419	1	BRKT, BRUSH PULLEY	
7	E87456	1	BRKT, BRUSH HEIGHT	
8	E87724	REF	FRAME	
9	E87521	2	GUARD, THREAD	
10	E87712	1	HOUSING, BRUSH 15"	
11	E87562	1	LABEL, BRUSH HEIGHT	
12	51311	1	LINKAGE, ASM, BRUSH HEIGHT	
13	E87264	1	LINKAGE ASM, ROLLER SUPPORT	
14	E87265	2	LINK, ROLLER, FRONT	
15	E87522	1	LEVER, HEIGHT ADJUSTMENT	
16	E87515	4	NUT, 10-32 HEX NYLOCK	
17	E87439	2	NUT, 3/8 DIA CAP, TYPE PUSH PLT	
18	E87240	1	PLATE, BRUSH HOUSING RH	
19	E87219	1	PLATE, BRUSH HOUSING LH	
20	E87220	2	PLATE, AXLE RETAINER	
21	E88378	1	PULLEY, 2.2 OD, 6GR, MICRO-V	
22	E87423	1	PIN, ROLL 1/4 X 1.25E	
23	E87454	1	ROLLER, 1.9 DIA X 10.5 LG	
24	E87328	2	SCR, 10-32 X 5/8 PFHMS	
25	E87559	6	SCR, 10-32 X 1/2 PPHMS SS DL	
26	E87324	7	SCR, 10-32 X 1/2 FHMS SS	
27	E87228	2	SCR, 10-32 X 3/8 FHMS SS	
28	E87274	2	SCR, #10-24 X 1/2 SHCS	
29	E87560	4	WASHER, #10 LOCK EXT STAR SS	
30	E87561	6	WASHER, #10 X 9/16 OD	
31	70675	4	SCR, 1/4-20 X.5/8 THMS PLTD NP	
32	E87527	1	BRUSH, 15 L X 3.38 OD G2	1000060649
33	E87569	1	RING, TOLERANCE 7/8 ID X 1/2 W	1000060649
34	E87375	1	CLIP, BEARING	
35	E87422	1	DRIVER, BRUSH	
36	E87568	1	SHLDR BOLT, 3/8 OD X 3/8 L SS NP	1000060649
37	E87225	1	RING, 1 /2 EXT. SNAP	
38	66310	2	PIN, CLEVIS 1/4 X 1/2 PLTD	
39	E87436	2	COTTER, 1/4" RING	
40	E87421	1	SPACER, .81 ID X 1.060D, ALUM	

**BRUSH ASSEMBLY CONT.**

<b>Item</b>	<b>SKU</b>	<b>QTY</b>	<b>Description</b>	<b>FROM Serial #</b>
<b>41</b>	<b>E87420</b>	<b>1</b>	<b>PULLEY ASM, BRUSH</b>	
<b>42</b>	<b>E87528</b>	<b>1</b>	<b>DRIVER ASM, BRUSH</b>	
<b>43</b>	<b>E87527</b>	<b>1</b>	<b>BRUSH ASM, 15 IN</b>	
<b>44</b>	<b>E87566</b>	<b>1</b>	<b>ADAPTER BRUSH BRG. DIE CAST</b>	<b>1000060649</b>
<b>45</b>	<b>E87567</b>	<b>2</b>	<b>BEARING, R6 3/8 ID</b>	<b>1000060649</b>
<b>46</b>	<b>E87449</b>	<b>1</b>	<b>BRUSH BEARING ASM</b>	
<b>47</b>	<b>E87570</b>		<b>REFKIT, BRNG/ADPTR EXTRCTR</b>	

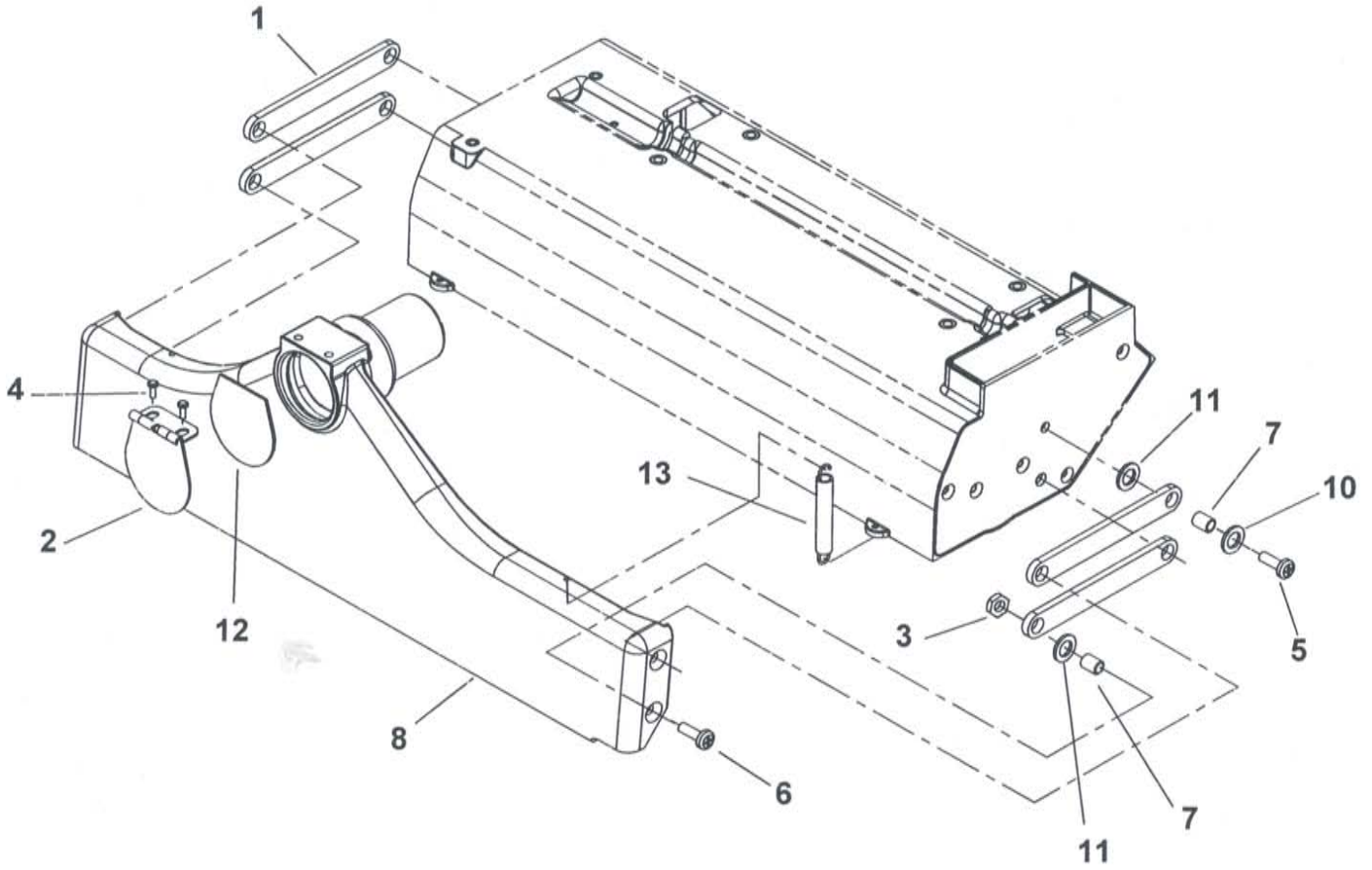
# PUMP ASSEMBLY



**PUMP ASSEMBLY**

Item	SKU	QTY	Description
1	E87594	1	COUPLING, 1/4 ANCHOR W/1" HEX
2	E87700	2	CONNECTOR, 1/8FPT X 1/4 TUBEQC
3	E87841	1	ELBOW, SWIVEL, 1/4MPTX1/4TUBE
4	E87842	1	ELBOW, SWIVEL, 3/8MPTX3/8TUBEQC
5	E87512	2	JET BODY, MINI PROMAX BODY
6	E87514	2	JET, MINI PROMAX 9503
7	E87515	2	NUT, 10-32 HEX NYLOCK
8	E87517	1	PUMP ASM, 115V 100PSI W/CONN
9	66288	2	PLUG, 9/16 OD BLK NYLON
10	E87262	2	SCR, 10-32 X 1.25 PPHMS
11	E87246	2	SCR, 1/4-20 X 5/8 HHCS SS
12	E87222	1	FITTING, 1/4 TUBE,"Y", QC
13	E87843	1	TEE, 3/8 MPT X 3/8 TUBE, QC
14	E87516	1	VALVE ASM, SOLENOID CLP FAMILY
15	87191	2	WASHER, 1/4"IDXI.OOD. FLAT SS
16	E87561	4	WASHER, #10 X 9/16 OD
17	E87452	2	WASHER, 7/16 X 3/4 X.19RUBBER
18	E87595	1	NIPPLE, 1/4 CLOSE
19	E85638	1	NIPPLE, 1/4 FPT QD
20	E87844	2	ELBOW, 1/4 MPT X 3/8 TUBE, QC
21	E87270	2	SCR, 10-32 X 3/8 PPHMS SS
22		-	OPEN
23	880278	1	WIRE, 22" GRN/18 76011 X 76011
24	E87737	1	HOSE, 3/8 URETHANE X 29"
25	E87536	1	HOSE, 3/8 NYLON X 6"
26	E87545	3	HOSE, 1/4 URETHANE X 6"
27	E87227	1	SCREEN, INTAKE
28	39591	1	HOSE, 3/8 ID NYL11 YLW X 29"

# VACUUM SHOE ASSEMBLY

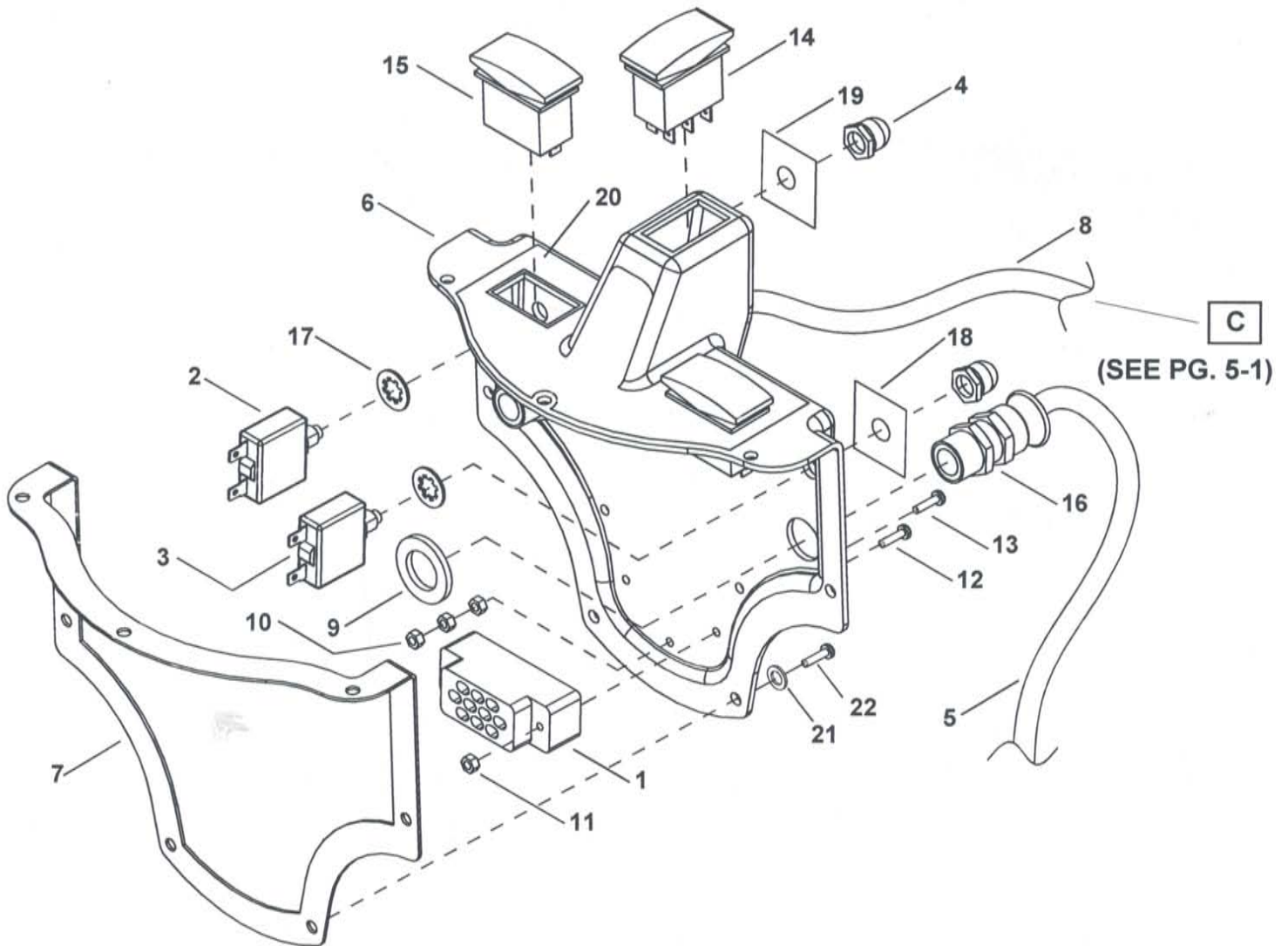


**VACUUM SHOE ASSEMBLY**

<b>Item</b>	<b>SKU</b>	<b>QTY</b>	<b>Description</b>
<b>1</b>	<b>5016</b>	<b>4</b>	<b>ARM, VAC SHOE PARALLEL</b>
<b>2</b>	<b>E87571</b>	<b>1</b>	<b>COVER, ACCESSORY PORT</b>
<b>3</b>	<b>E87575</b>	<b>4</b>	<b>NUT, 1/4-20 HEX NYLOCK SS</b>
<b>4</b>	<b>E87440</b>	<b>2</b>	<b>SCR, 10-32 X 3/8 HHTR W/STAR</b>
<b>5</b>	<b>E87413</b>	<b>4</b>	<b>SCR, 1/4-20 X.75 PPHMS PHIL</b>
<b>6</b>	<b>E87224</b>	<b>4</b>	<b>SCR, 1/4-20 X 1 FHCS PLTD</b>
<b>7</b>	<b>E87679</b>	<b>8</b>	<b>SPACER, 3/80DX.058WX.2814,CRS</b>
<b>8</b>	<b>E87434</b>	<b>1</b>	<b>VAC SHOE, 15"</b>
<b>9</b>	<b>Open</b>	<b>-</b>	<b>-</b>
<b>10</b>	<b>E87414</b>	<b>4</b>	<b>WASHER, 1/4 ID X 5/8 OD SS</b>
<b>11</b>	<b>E87415</b>	<b>8</b>	<b>WASHER, WAVE 3/81D X3/4D X.125</b>
<b>12</b>	<b>E87518</b>	<b>1</b>	<b>GASKET, ACCESSORY PORT</b>
<b>13</b>	<b>E87487</b>	<b>2</b>	<b>SPRING, EXT.38D X2.75L X.055W</b>



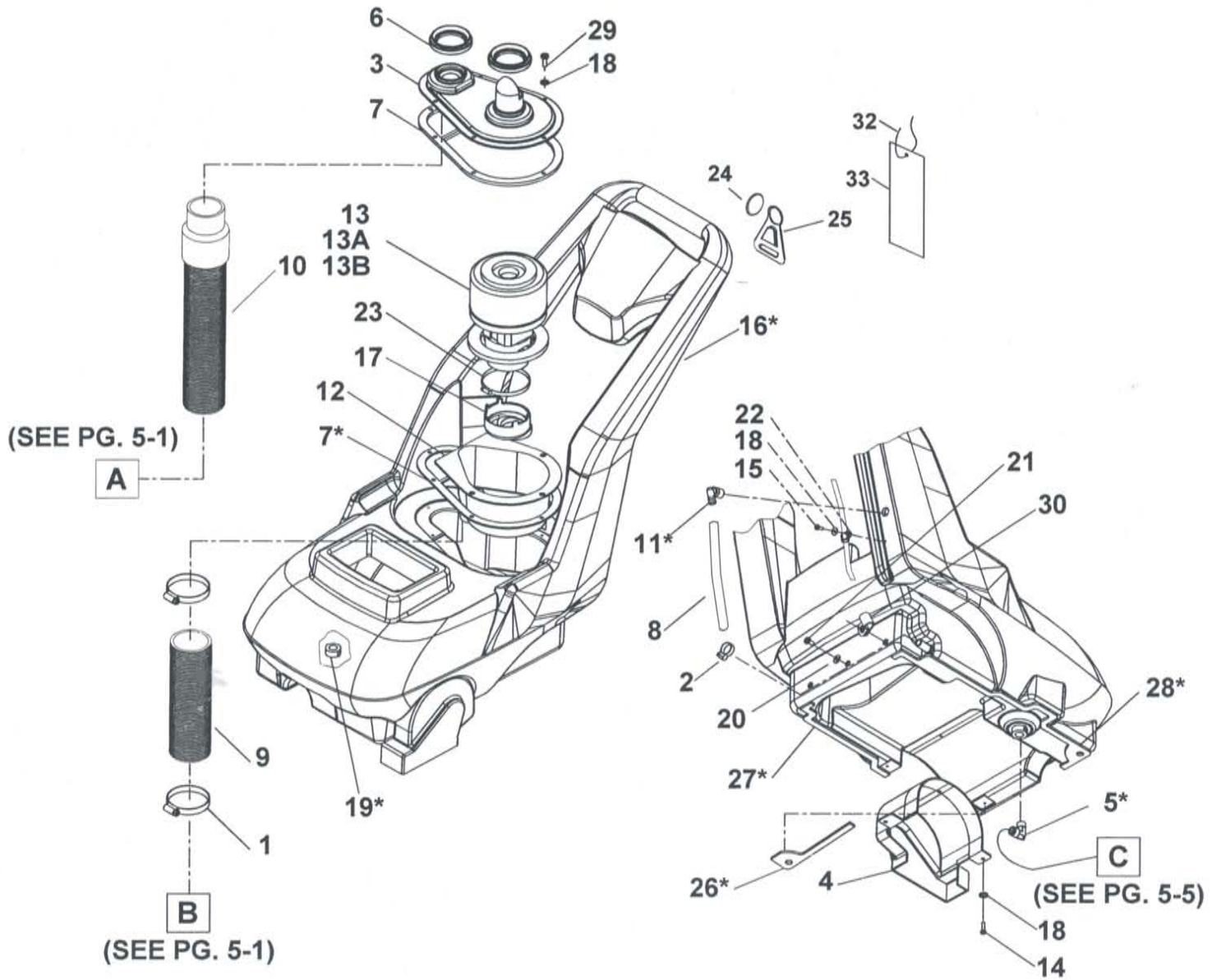
# CONTROL PANEL ASSEMBLY



### **CONTROL PANEL ASSEMBLY**

<b>Item</b>	<b>SKU</b>	<b>QTY</b>	<b>Description</b>
1	E87460	1	TERMINAL BLOCK, 115V 3-4-3
2	E87503	1	BREAKER, 15A 250VAC 50VDC
3	E87504	1	BREAKER, 6A VDE CIRCUIT
4	E87505	2	BOOT, 3/8 CIRCUIT BREAKER
5	E87506	1	CORD ASM, 14/3 X 22" YLW
6	E87266	1	COVER, FB8 PANEL
7	E87437	1	GASKET, FB8 PANEL
8	E87486	1	HARNESS, MAIN
9	57040	2	NUT, 1/2 NPT CONDUIT
10	57104	3	NUT, 10-32 W/STAR WASHER PLTD
11	57116	2	NUT, 6-32 W/STAR WASHER PLTD
12	70235	2	SCR, 6-32 X 1.0 PH BLK NYLON
13	70066	1	SCR, 10-32 X 3/4 PPHMS
14	E87507	1	SWITCH, DPDT 3-POSITION ROCKER
15	E87609	2	SWITCH, SPST 2-POSITION ROCKER
16	E87696	2	STRAIN RELIEF, 1/2 NPT TRUMPET
17	87100	2	WASHER, 3/8 ID INT.LOCK THIN
18	500226	3	LABEL, CIRCUIT BREAKER BRUSH
19	500225	1	LABEL, CIRCUIT BREAKER VAC
20	500154	1	LABEL, CONTROL PANEL
21	87189	7	WASHER, .2 ID X.500 BLK SS
22	70626	7	SCR, #10 X 3/4 PPHST HI-LO BLK

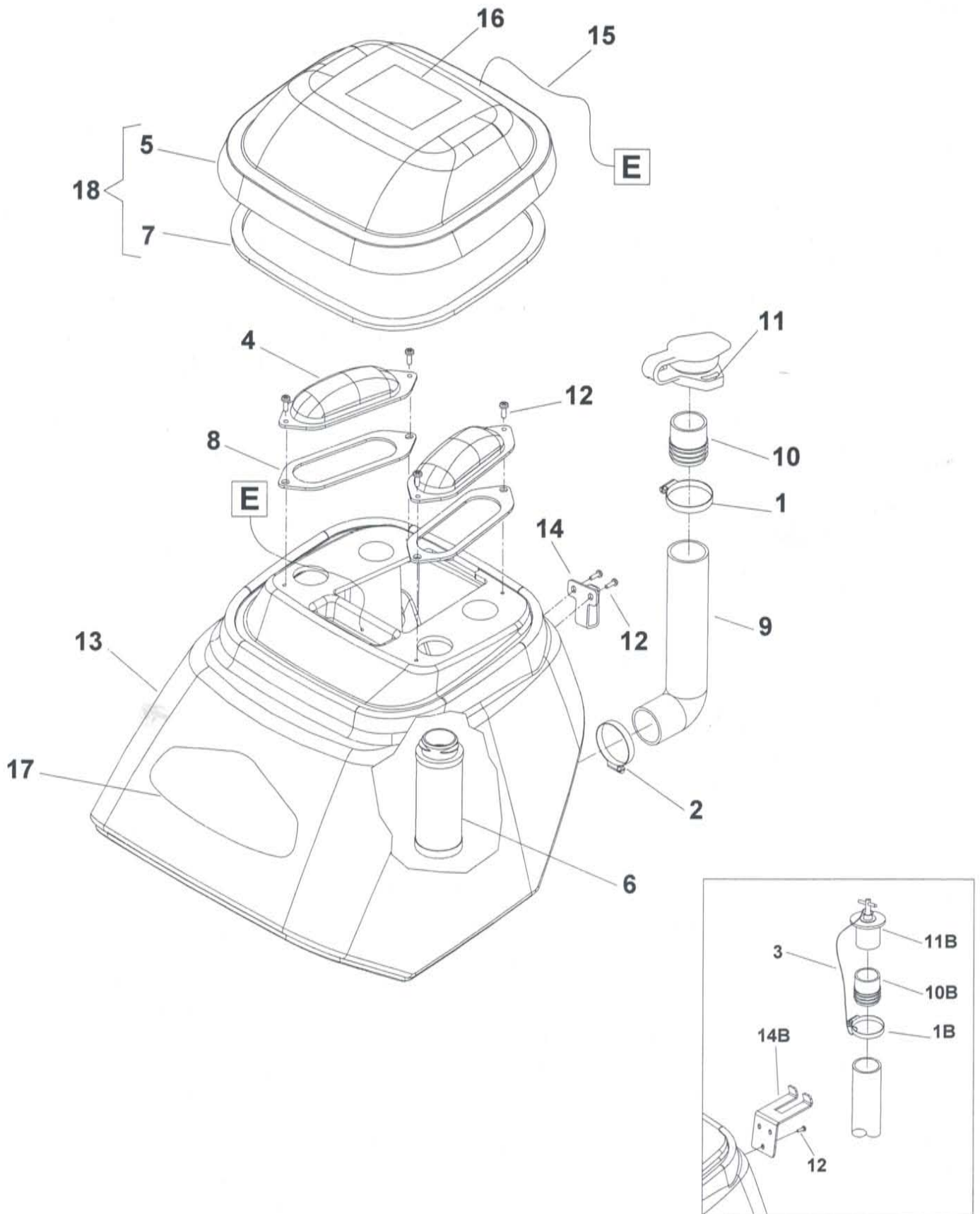
# SOLUTION TANK ASSEMBLY



### SOLUTION TANK ASSEMBLY

Item	SKU	QTY	Description
1	E11535	3	CLAMP, 2.0" WORM GEAR
2	20042	1	CLAMP, 3/8 HOSE (D-SLOT)
3	E87479	1	COVER, VAC MOTOR
4	E87473	1	COVER, BELT
5	E87736	1	ELBOW, 3/8 MPT X 3/8 TUBE, PLASTIC
6	E87519	2	GASKET, TANK TO VAC COVER
7	E87739	2	GASKET, VAC COVER
8	E87215	1	HOSE, 1/2 CLEAR X 12
9	E87750	1	HOSE, 1.5 BLK VAC X 3.0
10	E87751		REFHOSE ASM, 1.5 BLK VAC X 15.5
11	E88721	1	HOSEBARB
12	E87310	1	HOUSING, VAC MOTOR
13	E87509	1	VAC MOTOR ASM
13A	E87161		BRUSH SET, 120V 5.7 VAC, AMETEK
13B	E87271		BRUSH SET, 120V VAC, WINDSOR
14	E87491	2	SCR, #10 X 3/4 PPHST TYPE B
15	E87559	2	SCR, 10-32 X 1/2 PPHMS SS
16	E87579	1	TANK, F138 SOLUTION
17	E87267	1	VENT, COOLING AIR SMALL
18	E87561	10	WASHER, #10 X 9/16 OD
19	E87510	1	STRAINER, 3/8 IN. NPT 60 MESH
20	E87414	3	WASHER, 1/4 ID X 5/8 OD SS
21	70085	3	SCR, 1/4-20 X 1/2 PPHMS SS DL
22	E85412	2	CLAMP, 7/16 DIA NYLON UL
23	20092	1	CLAMP, 3.5" WORM GEAR
24	67147	1	RING, 2" DIA SPLIT
25	E87391	1	STRAIN RELIEF, CORD HOOK
26	E87416	1	GASKET, TANK, L-F
27	E87459	1	GASKET, TANK, L-R
28	E87417	1	GASKET, TANK, RH
29	E87564	6	SCR, #10 X 1.0 PPHST TYPE B
30	03-000262	1	CLAMP, CABLE 1/2 ID 1/4BLT
31	75318	1	TANK ASM, SOLUTION
32	27417	1	CORD, 99807 1/8 X 12"
33	E87229	1	CARD, INSTRUCTION

# RECOVERY TANK ASSEMBLY



## **RECOVERY TANK ASSEMBLY**

<b>Item</b>	<b>SKU</b>	<b>QTY</b>	<b>Description</b>
<b>1A</b>	<b>E85458</b>	<b>1</b>	<b>CLAMP, 2.0" WORM GEAR X.312</b>
<b>1 B</b>	<b>E85358</b>	<b>1</b>	<b>CLAMP, 2.0" NYLON RATCHET</b>
<b>2</b>	<b>E11535</b>	<b>1</b>	<b>CLAMP, 2.0" WORM GEAR</b>
<b>3</b>	<b>E87615</b>	<b>1</b>	<b>CORD, DRAIN HOSE</b>
<b>4</b>	<b>E87557</b>	<b>2</b>	<b>COVER, REC. TANK</b>
<b>5</b>	<b>E87309</b>	<b>1</b>	<b>DOME, CLP FAMILY</b>
<b>6</b>	<b>E87511</b>	<b>1</b>	<b>FLOAT SHUT-OFF</b>
<b>7</b>	<b>E87711</b>	<b>1</b>	<b>GASKET, DOME</b>
<b>8</b>	<b>E87710</b>	<b>2</b>	<b>GASKET, PORT COVER</b>
<b>9</b>	<b>E87572</b>	<b>1</b>	<b>HOSE, 1.5 X 12.0 DRAIN</b>
<b>10A</b>	<b>E87168</b>	<b>1</b>	<b>HOSE, INSERT</b>
<b>10B</b>	<b>E87619</b>	<b>1</b>	<b>HOSEBARB, 1.5 DOUBLE MCHD</b>
<b>11A</b>	<b>E87573</b>	<b>1</b>	<b>HOSE, CAP</b>
<b>11B</b>	<b>E87620</b>	<b>1</b>	<b>PLUG, DRAIN HOSE</b>
<b>12</b>	<b>E87491</b>	<b>6</b>	<b>SCR, #10 X 3/4 PPHST TYPE B</b>
<b>13</b>	<b>75258</b>	<b>1</b>	<b>TANK, CDT RECOVERY</b>
<b>14A</b>	<b>140408</b>	<b>1</b>	<b>BRKT, HOSE HOOK</b>
<b>14B</b>	<b>E87563</b>	<b>1</b>	<b>BRKT, RECOVERY HOSE MTG</b>
<b>15</b>	<b>27417</b>	<b>1</b>	<b>CORD, 99807 1/8 X 12"</b>
<b>16</b>	<b>E87257</b>	<b>1</b>	<b>LABEL, WARNING</b>
<b>17</b>	<b>E87237</b>	<b>1</b>	<b>LABEL, MAIN</b>
<b>18</b>	<b>E87513</b>	<b>1</b>	<b>DOME ASM, CLP FAM</b>

### **SUGGESTED SPARE PARTS**

<b>SKU</b>	<b>DESCRIPTION</b>
<b>E87527</b>	<b>BRUSH, 15L X 3.380D</b>
<b>E87501</b>	<b>BELT, 180J6 MICRO-V</b>
<b>09019</b>	<b>BEARING, 1.1250DX.5001DX.375</b>
<b>E87512</b>	<b>JET BODY, MINI PROMAX BODY</b>
<b>E87514</b>	<b>JET, MINI PROMAX 9503</b>
<b>E87517</b>	<b>PUMP ASM</b>
<b>E87516</b>	<b>VALVE ASM, SOLENOID CLP FAMILY</b>
<b>E87518</b>	<b>GASKET, ACCESSORY PORT</b>
<b>E87503</b>	<b>BREAKER, 15A 250VAC 50 VDC</b>
<b>E87504</b>	<b>BREAKER, 6A VDE CIRCUIT</b>
<b>E87609</b>	<b>SWITCH, SPST 2-POSITION ROCKER</b>
<b>E87507</b>	<b>SWITCH, DPDT 3-POSITION ROCKER</b>
<b>E87509</b>	<b>VAC MOTOR ASM</b>
<b>E87510</b>	<b>STRAINER, 3/8 IN. NPT 60 MESH</b>
<b>E87511</b>	<b>FLOAT, SHUT-OFF</b>
<b>E87513</b>	<b>DOMES ASM</b>
<b>E87620</b>	<b>PLUG, DRAIN HOSE</b>
<b>E87161</b>	<b>BRUSH SET, 120V VAC, AMETEK</b>
<b>E87271</b>	<b>BRUSH SET, 120V VAC, WINDSOR</b>

# BETCO US WARRANTY POLICY

## 10 year coverage

Subject to the conditions stated below, Betco warrants parts and labor on rotationally molded polyethylene tanks/housings and injection molded vacuum head assemblies to be free from defects in materials and workmanship for a period of ten years to the original purchaser.

## 3 Year Coverage

Subject to the conditions stated below, Betco warrants parts and labor on all other Betco components to be free from defects in materials and workmanship for a period of three years to the original purchaser.

## 1 Year Coverage

Subject to the conditions stated below, Betco offers a limited warranty on parts and labor on the following equipment: parts and accessories to be free from defects in materials and workmanship for a period of one year to the original purchaser.

- PowerUp™ 14 Upright Vacuum: #E29990-00
- Bac Pac Lite Vacuum: #85903-00
- FiberPRO® Floor Dryer: #85507-00
- WORKMAN™ Series Vacuums: #85024-00, #85025-00, #83012-00, #85027-00
- All Tools and Accessories
- All Battery Chargers
- All Batteries are pro-rated for 1 year

### **Allowable Travel Time Warranty Reimbursement:**

Eligible equipment: All battery and propane powered equipment products. Warranty period: 90 days from date of sale to the original purchaser. A maximum 180 mile round trip at 50 cents per mile will be allowed for warranty consideration.

### **Propane Machine Warranty:**

Kawasaki engines are warranted by Kawasaki for a period of 2 years against manufacturer defects. All other components (except wear items)\* are warranted by Betco for a period of 3 years.

**\*Wear Items exempt from Warranty consideration include but may not be limited to: power cords, transport wheels, vacuum bags, belts, squeegee blades, pad drivers, clutch plates, handle grips, filters, screens, throttle cables, brushes and carbon brushes.**

Subject to the conditions and exceptions stated in this warranty, Betco warrants the Betco products to be free from defects in material and workmanship, under normal use and service, for the periods listed under the warranty policy to the original purchaser. At any time during the warranty period, Betco will furnish replacement parts for the Betco parts to the original purchaser. Such parts will be furnished and charged including transportation costs, to the original owner through any Betco authorized Service Distributor. If the original part is returned within the warranty policy period from date of delivery for inspection by Betco and is found to be defective the owner will be credited for the cost of replacement parts plus shipping and handling. Replacement parts that have become defective through wear or abuse are not included in this warranty.

This warranty does not apply to damage or defect caused by accident, misuse, negligence, fire, or to any Betco product which has been serviced or repaired by other than an authorized Betco Service Distributor or Betco factory personnel. This warranty is void if products are used for any purpose other than that which was intended. There are no other warranties expressed or implied. In no event shall Betco be liable for incidental or consequential damages or any damage to person or property. (Please note some states do not allow the exclusion or limitations for incidental and consequential damages).

