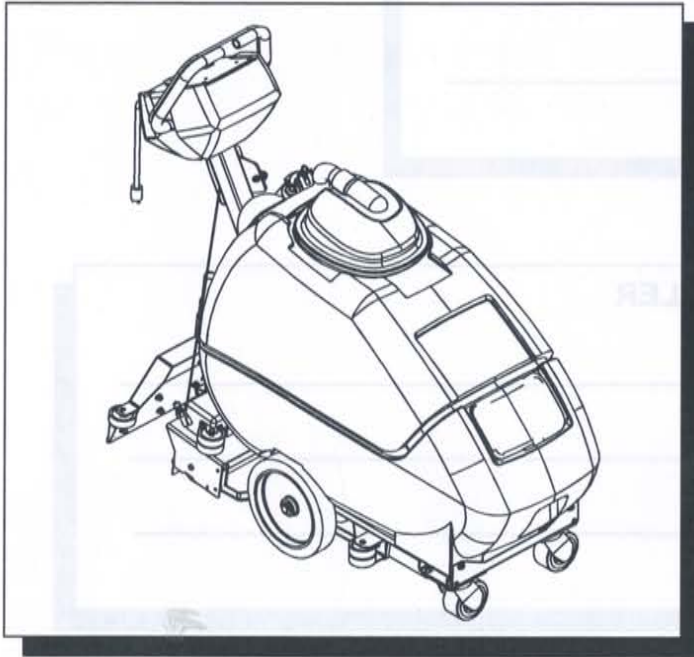


# *Fiber* PRO<sup>TM</sup> 20

**BETCO.**



Operating Instructions (ENG)

**MODEL:** BFP20 - 10086040

**Power Source:** 115V Electric

---

*Read instructions before operating the machine.*

**M**

86038490 05/11/07

PRV NO. 98777

## 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.*

# IMPORTANT SAFETY INSTRUCTIONS

**When using an electrical appliance, 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:**

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

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

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** operate the machine with any openings blocked. Keep openings free of debris that may reduce airflow.

This machine **is not** suitable for picking up hazardous dust.

**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.

**During operation**, attention shall be paid to other persons, especially children.

**When leaving unattended**, secure against unintentional movement.

**The machine shall only** be operated by instructed and authorized persons.

**When leaving unattended**, switch off or lock the main power switch to prevent unauthorized use.

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

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

**Do not** use with damaged cord or plug. Follow all instructions in this manual concerning grounding the machine.

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

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

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

## **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.**

### **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.

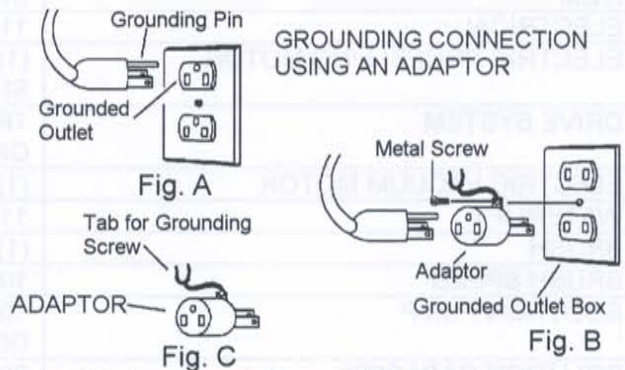
#### **EXTENSION CORDS:**

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.



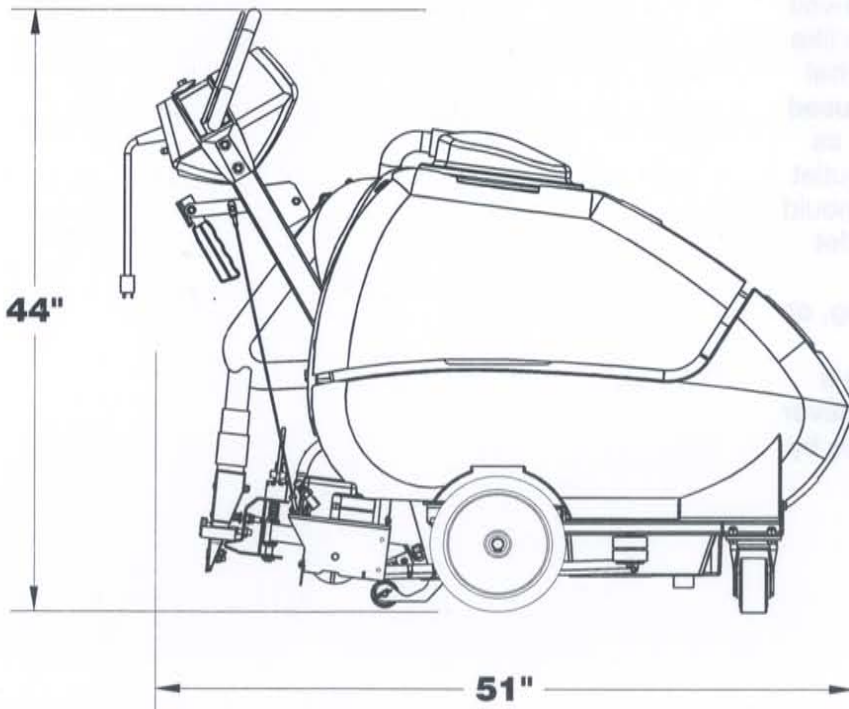
Note: Adaptors are not allowed in Canada.

**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.**

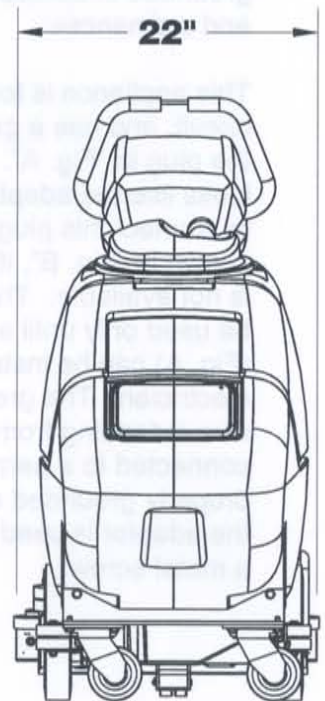
## TECHNICAL SPECIFICATIONS

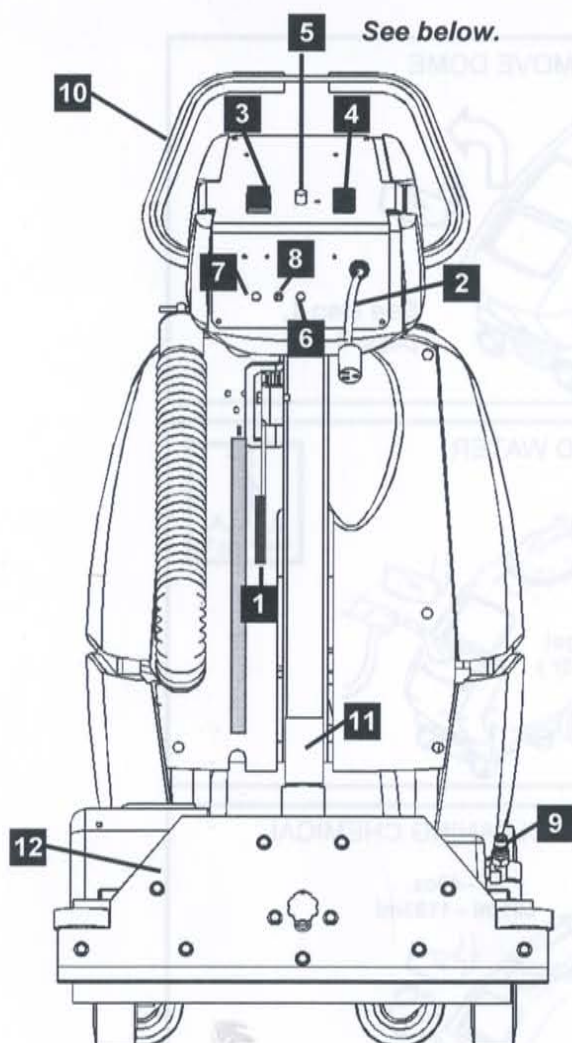
| ITEM                      | DIMENSION/CAPACITY                                                      |
|---------------------------|-------------------------------------------------------------------------|
| ELECTRICAL                | 115V, 15A, 60Hz                                                         |
| ELECTRIC PROPELLING MOTOR | (1) - 1/4HP DC (186 WATTS) WITH VARIABLE SPEED FORWARD                  |
| DRIVE SYSTEM              | TRANSAXLE UNIT VARIABLE SPEED<br>OPERATING SPEED: 0-100FT/MIN (30M/MIN) |
| ELECTRIC VACUUM MOTOR     | (1) - 3 STAGE, 1HP 99 CFM (2.8M <sup>3</sup> /MIN.)                     |
| WATERLIFT                 | 117" (297 CM)                                                           |
| BRUSH                     | (1) 18" (45.8 CM)                                                       |
| BRUSH SPEED               | 1000RPM                                                                 |
| SOLUTION PUMP             | 100PSI (6.9 BARS), DIAPHRAGM STYLE, DEMAND PUMP                         |
| SOLUTION CAPACITY         | 20 GALLONS (75 LTR)                                                     |
| SOLUTION SPRAY            | 2 QUICK CHANGE JETS                                                     |
| RECOVERY CAPACITY         | 20 GALLONS (75 LTR)                                                     |
| VACUUM SHOE               | 22" (56 CM)                                                             |
| WHEELS                    |                                                                         |
| FRONT (2)                 | 4" DIA. (10 CM) CASTERS BY 2.5"                                         |
| REAR (2)                  | 10" DIA. (25 CM) WHEELS BY 2"                                           |
| WEIGHT                    | 215 LBS. (98 KG)                                                        |
| LENGTH                    | 51" (130 CM)                                                            |
| HEIGHT                    | 44" (111 CM)                                                            |
| WIDTH                     | 22" (56 CM)                                                             |
| POWER CABLE               | 75' (23 M) 12 GAUGE                                                     |

**SIDE VIEW**

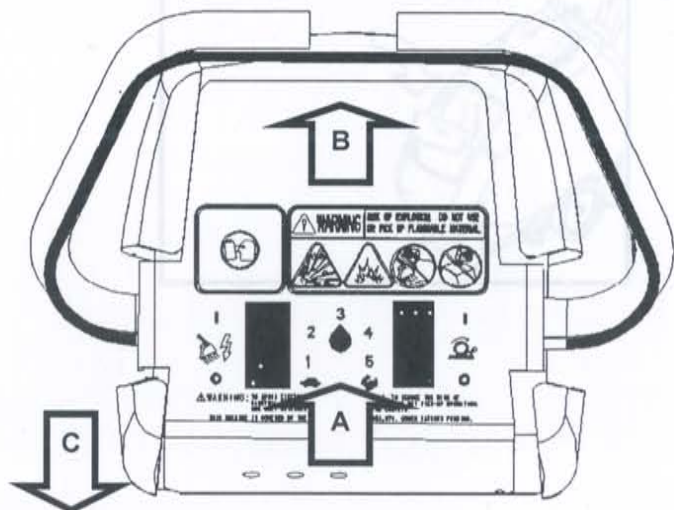


**FRONT VIEW**





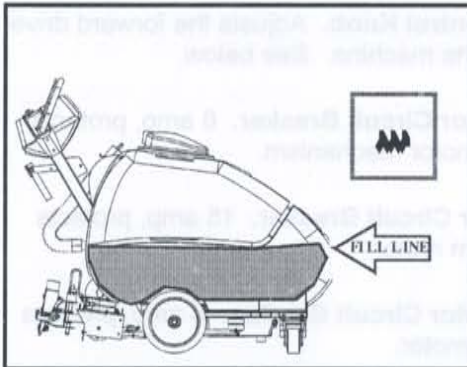
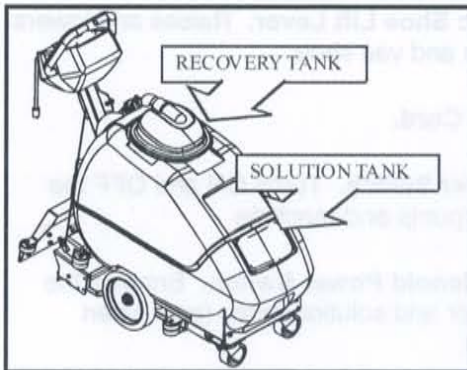
1. **Brush/Vac Shoe Lift Lever.** Raises and lowers both brush and vac shoe.
2. **Electrical Cord.**
3. **Main Power Switch.** Turns ON and OFF the vac motor/pump and machine.
4. **Brush/Solenoid Power Switch.** Enables the brush motor and solution spray (only when propelling).
5. **Speed Control Knob.** Adjusts the forward drive speed of the machine. See below.
6. **Drive Motor Circuit Breaker.** 6 amp, protects the drive motor mechanism.
7. **Vac Motor Circuit Breaker.** 15 amp, protects the vacuum motor.
8. **Brush Motor Circuit Breaker.** 8 amp, protects the brush motor.
9. **Solution Accessory Tool Hookup.** Used for various auxiliary cleaning tools.
10. **Main Handle.**
11. **Vacuum Accessory Tool Hookup.** To use accessory tool, remove hose from vac shoe and attach to accessory tool adaptor.
12. **Vac Shoe Assembly.**



## DRIVE CONTROLS

- A. The speed, the machine will travel, is regulated by the knob located on the center of the control panel. Turn the knob to the right to increase the speed of the machine and to the left to decrease the speed of the machine.
- B. Squeezing the control lever will propel the machine forward at the selected speed. Machine will also engage the brush and spray if #4 is activated.
- C. To move the machine backwards, release the control lever and then pull back on main handle. *NOTE: The machine drive assembly is disengaged).* Do not pull back on the control lever.

## OPERATIONS



### FILLING THE SOLUTION TANK

**NOTE:** Use clean bucket of water to fill solution tank.

**DO NOT PUT DEFOAMER, SOLVENTS, SPOTTER OR PRESPRAY CHEMICALS IN THE SOLUTION 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

#### STEP 1

#### REMOVE DOME



See step 1,  
page 3-4.

#### STEP 2

#### ADD WATER



20 gal.  
(75 ltr.)



140°F (60°C)

#### STEP 3

#### ADD CLEANING CHEMICAL



20 - 40oz.  
591ml - 1183ml

#### STEP 4

#### REPLACE DOME

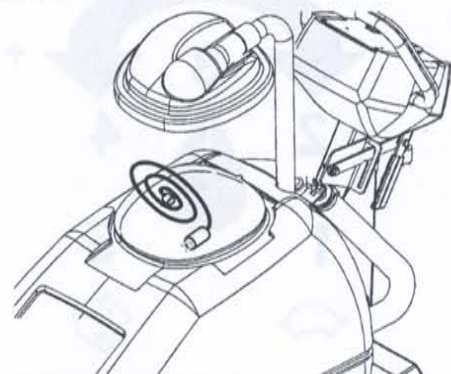


## OPERATIONS

Remove electrical cord from recovery tank.

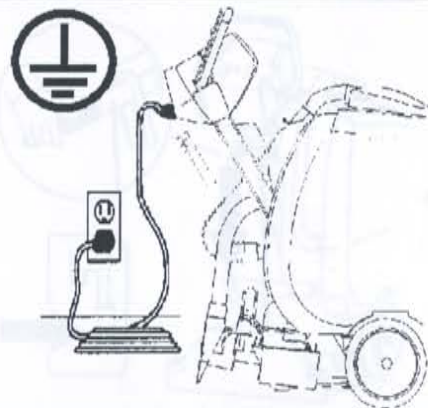
STEP  
1

REMOVE



Plug cord into grounded outlet.

STEP  
2



Adjust brush to proper setting (see page 3-8). Lower the brush.

STEP  
3



Turn Main Power/Brush Switch "ON"-"I"

STEP  
4

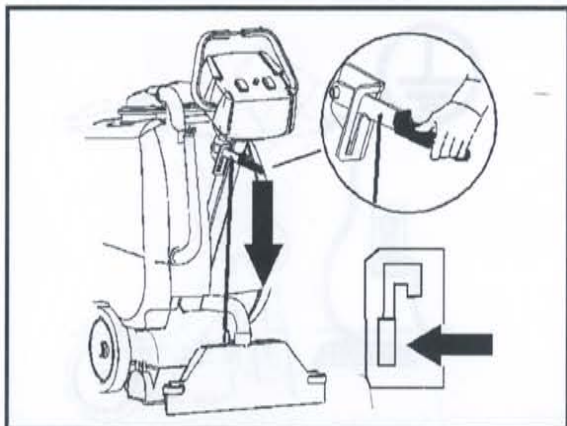


## OPERATIONS



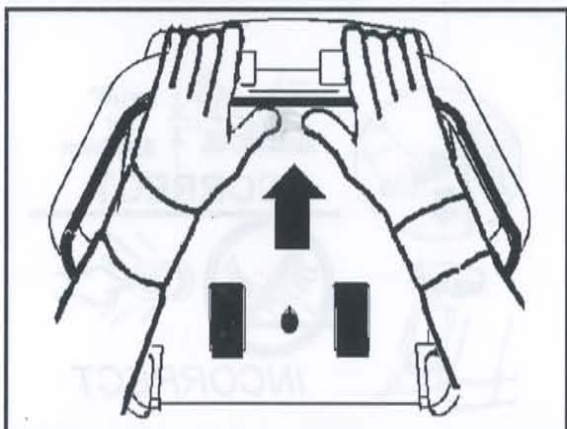
## STEP 5

Adjust speed control knob to desired speed.



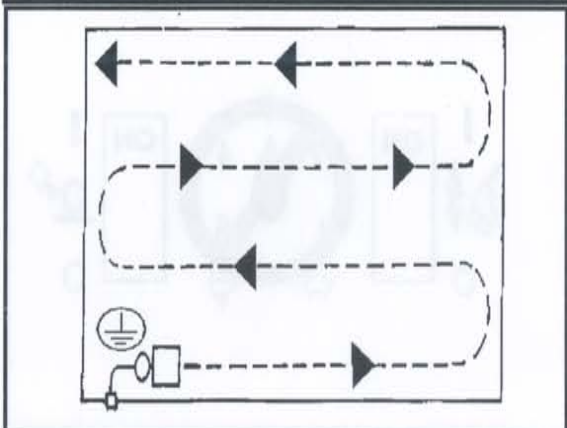
## STEP 6

Lower brush assembly to floor.



## STEP 7

Depress lever to propel machine forward and to activate brush and spray.



### STEP 1

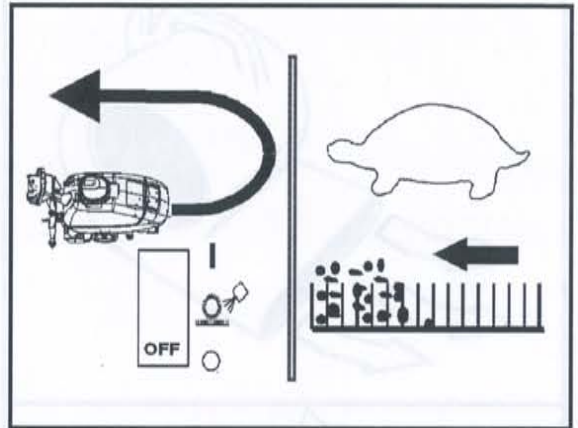
## CLEANING PROCEDURE

Operate machine in parallel passes.  
Clean perimeter last.

## CLEANING PROCEDURE

Turn "OFF" brush/solution switch in turns.  
Go slow over heavily soiled carpet.

STEP  
2



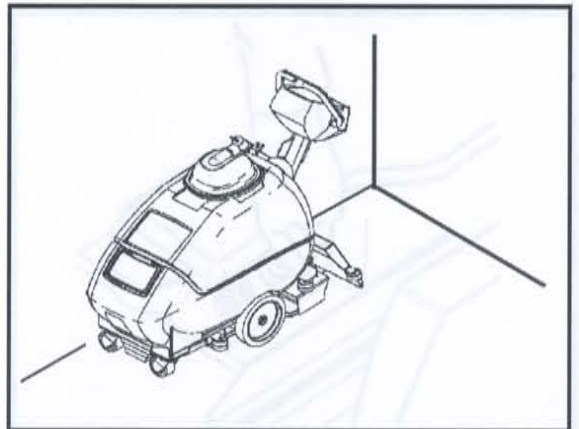
### ⚠ CAUTION

FOAM!! Turn off machine and add defoamer to recovery tank only.



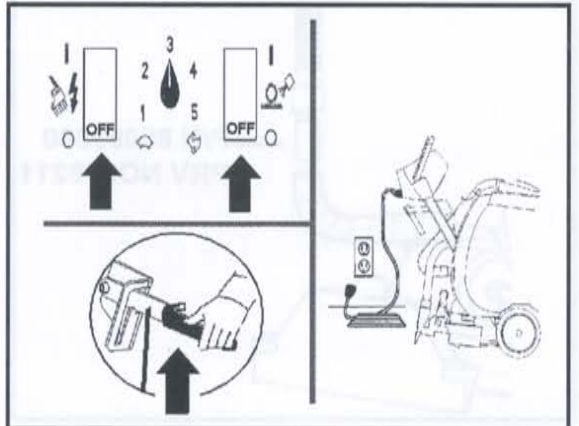
Use right side of machine for cleaning against walls.

STEP  
3

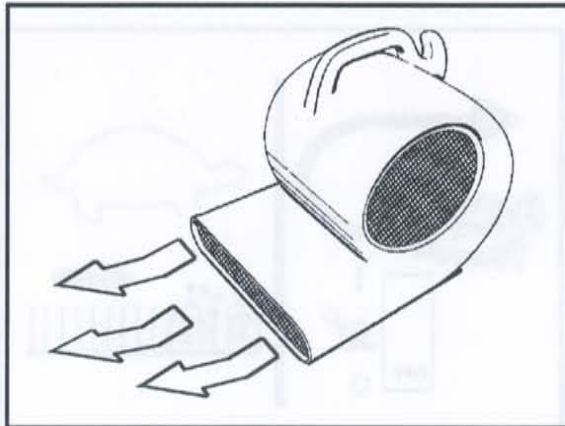


After cleaning, turn off all controls, raise brush assembly to storage position and carefully unplug machine.

STEP  
4

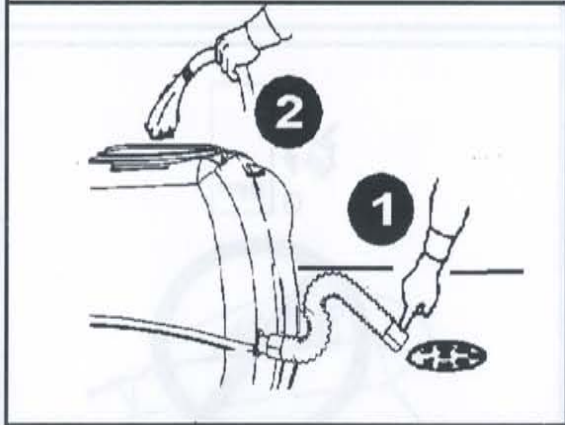


## CLEANING PROCEDURE/ACCESSORY TOOL USAGE



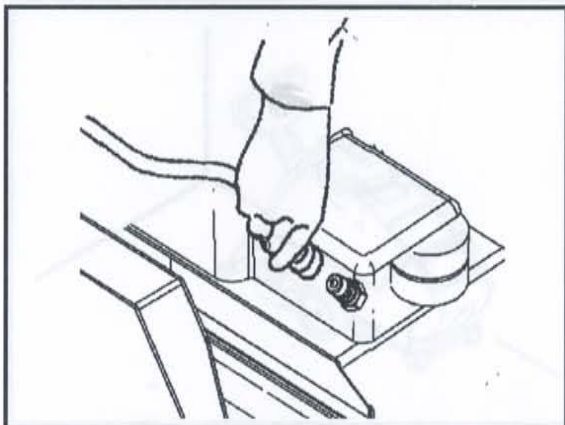
STEP  
5

Use a fan, to speed dry.



STEP  
6

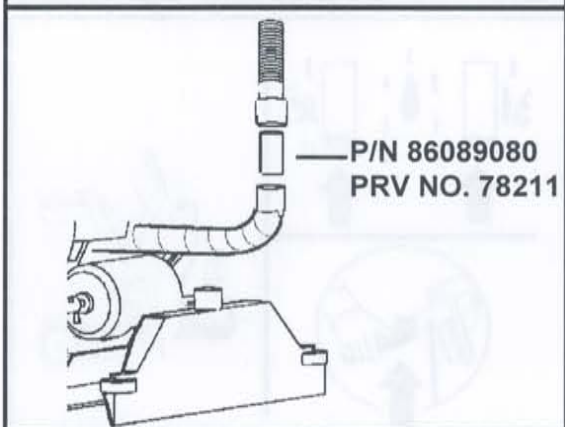
Empty recovery tank by releasing dump hose. Use a hose with cold water to clean out the recovery tank. Also drain solution tank after each use.



STEP  
1

### ACCESSORY TOOL USAGE

Insert collar over fitting.



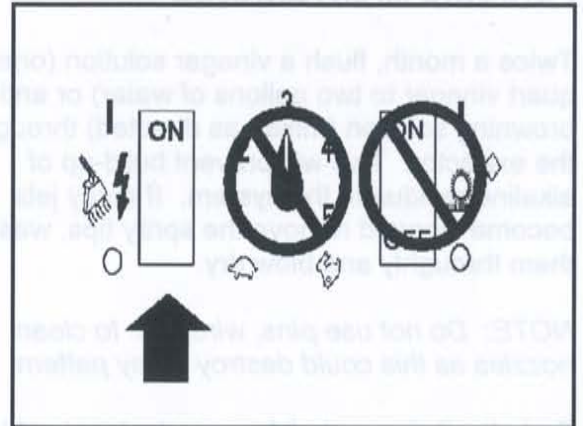
STEP  
2

Insert adaptor into vac shoe hose. Then insert accessory tool cuff onto adaptor.

## ACCESSORY TOOL USAGE/BRUSH ADJUSTMENT

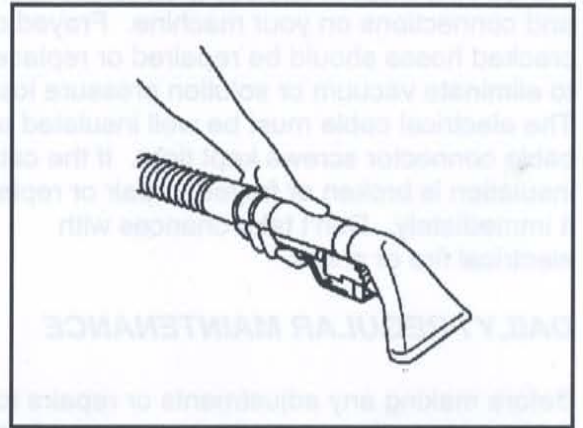
Turn Main Power Switch "ON" - "I"

STEP  
3



Squeeze handle on accessory tool to begin cleaning.

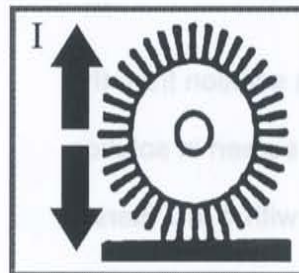
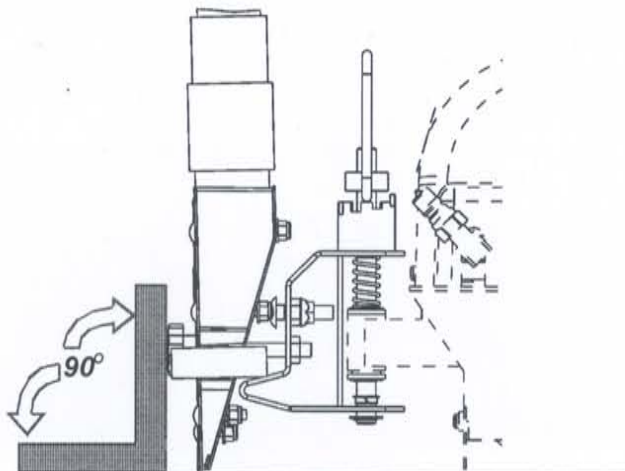
STEP  
4



### BRUSH ADJUSTMENT

NOTE: For good operation the brush must skim the carpet.

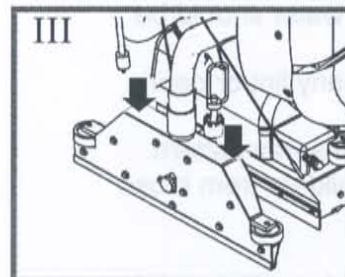
Adjust brush to 90°



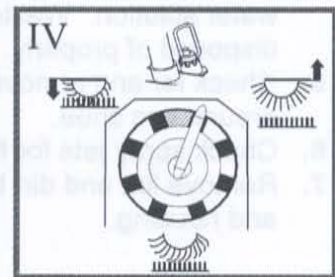
To adjust the brush



Raise handle to  
"Storage Position"



Push down on  
squeegee assembly



Adjust brush to correct  
height for carpet.

## MAINTENANCE

### PERIODIC MAINTENANCE

Twice a month, flush a 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. The electrical cable must be well insulated and cable connector screws kept tight. 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

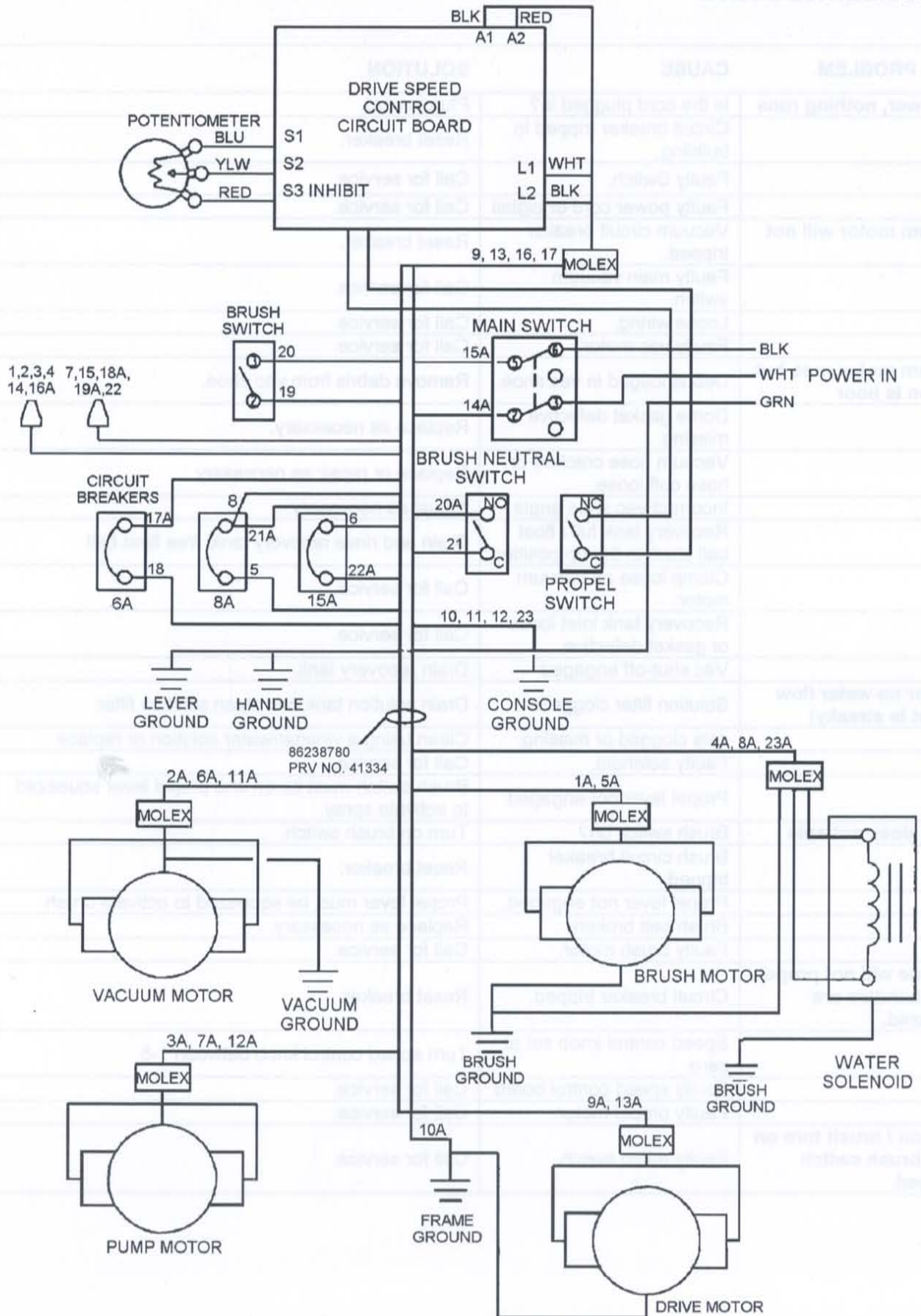
Before making any adjustments or repairs to the machine, disconnect the power cord from electrical source.

1. Empty unused cleaning solution from the solution tank.
2. Inspect and clean filter screen in solution tank.
3. Flush pumping system with 4 to 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: Always store machine with brush in "Store" position.*



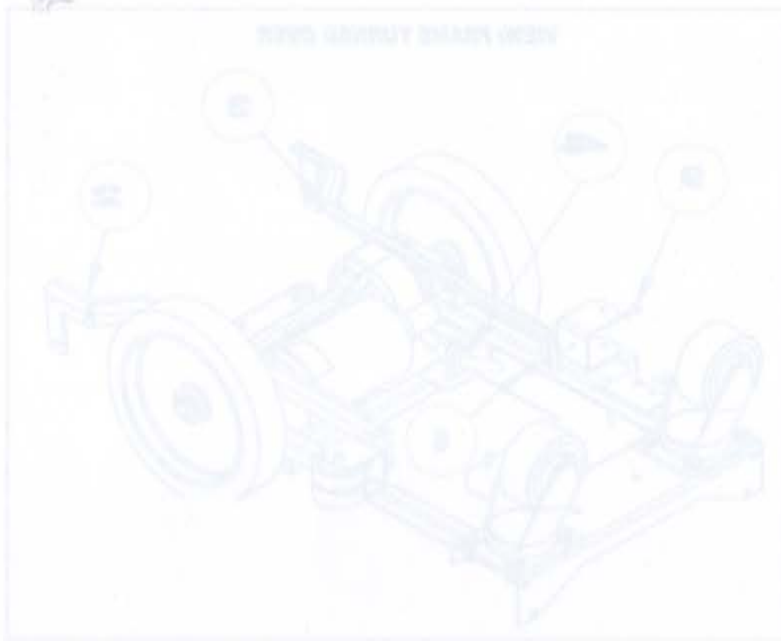
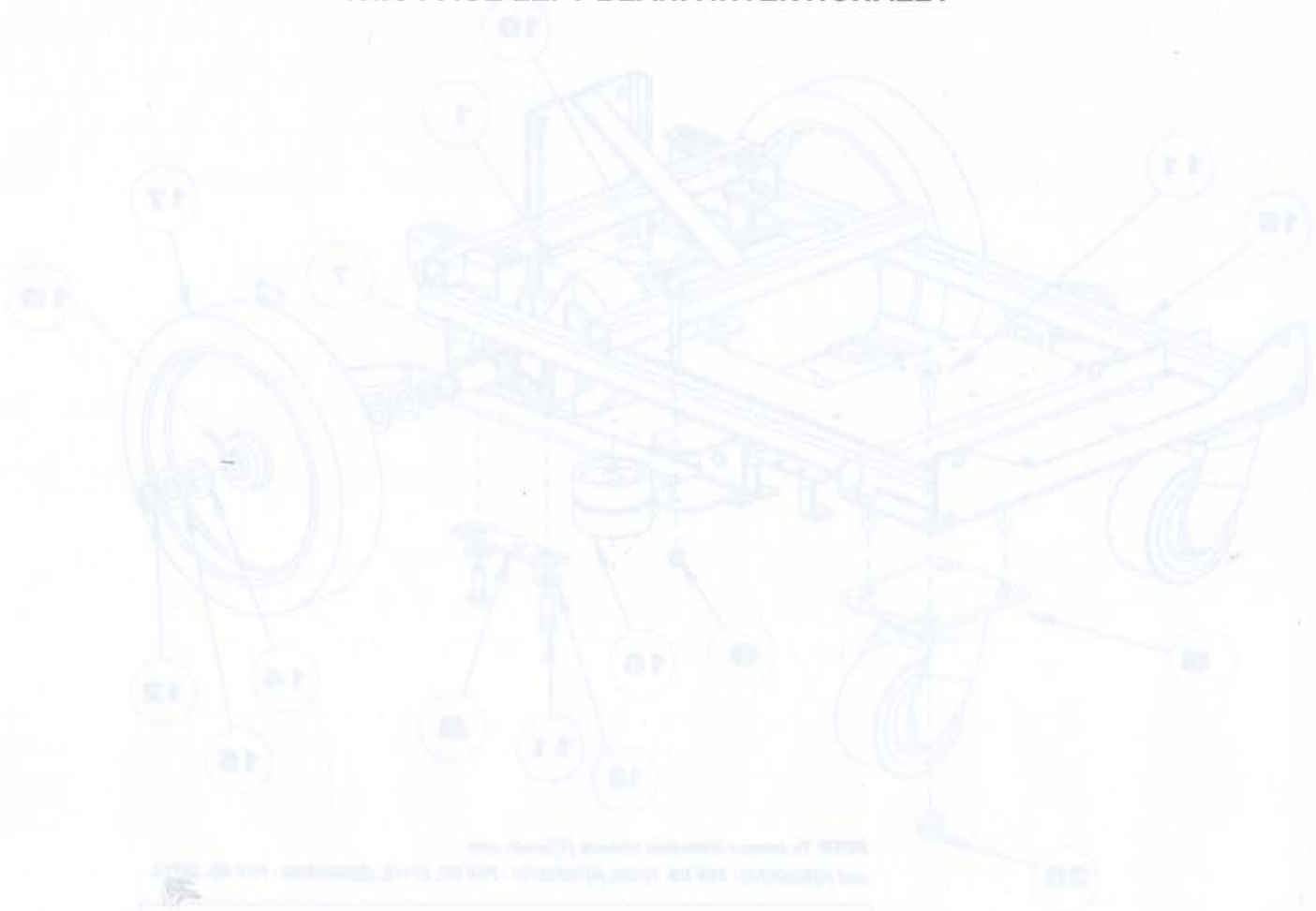
# WIRING DIAGRAM

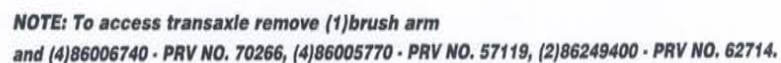


## TROUBLESHOOTING

| PROBLEM.                                                   | CAUSE                                                    | SOLUTION                                                             |
|------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------|
| <b>No power, nothing runs</b>                              | Is the cord plugged in?                                  | Plug in cord.                                                        |
|                                                            | Circuit breaker tripped in building.                     | Reset breaker.                                                       |
|                                                            | Faulty Switch.                                           | Call for service.                                                    |
| <b>Vacuum motor will not run</b>                           | Faulty power cord or pigtail                             | Call for service.                                                    |
|                                                            | Vacuum circuit breaker tripped.                          | Reset breaker.                                                       |
|                                                            | Faulty main vacuum switch.                               | Call for service.                                                    |
|                                                            | Loose wiring.                                            | Call for service.                                                    |
| <b>Vacuum motor runs but suction is poor</b>               | Faulty vac motor.                                        | Call for service.                                                    |
|                                                            | Debris lodged in vac shoe.                               | Remove debris from vac shoe.                                         |
|                                                            | Dome gasket defective or missing.                        | Replace as necessary.                                                |
|                                                            | Vacuum hose cracked or hose cuff loose.                  | Replace or repair as necessary.                                      |
|                                                            | Incorrect vac shoe angle.                                | Adjust as necessary.                                                 |
|                                                            | Recovery tank full / float ball stuck in the up position | Drain and rinse recovery tank, free float ball.                      |
|                                                            | Clamp loose on vacuum motor.                             | Call for service.                                                    |
|                                                            | Recovery tank inlet loose or gasket defective.           | Call for service.                                                    |
|                                                            | Vac shut-off engaged.                                    | Drain recovery tank.                                                 |
|                                                            | Solution filter clogged.                                 | Drain solution tank and clean solution filter.                       |
| <b>Poor or no water flow (carpet is streaky)</b>           | Jets clogged or missing.                                 | Clean using a vinegar/water solution or replace.                     |
|                                                            | Faulty solenoid.                                         | Call for service.                                                    |
|                                                            | Propel lever not engaged.                                | Brush switch must be on and propel lever squeezed to activate spray. |
| <b>Brush does not spin</b>                                 | Brush switch on?                                         | Turn on brush switch.                                                |
|                                                            | Brush circuit breaker tripped.                           | Reset breaker.                                                       |
|                                                            | Propel lever not engaged.                                | Propel lever must be squeezed to activate brush.                     |
|                                                            | Brush belt broken.                                       | Replace as necessary.                                                |
|                                                            | Faulty brush motor.                                      | Call for service.                                                    |
| <b>Machine will not propel when handles are squeezed.</b>  | Circuit breaker tripped.                                 | Reset breaker.                                                       |
|                                                            | Speed control knob set at zero.                          | Turn speed control knob between 1-5.                                 |
|                                                            | Faulty speed control board                               | Call for service.                                                    |
|                                                            | Faulty propel motor.                                     | Call for service.                                                    |
| <b>Solution / brush turn on when brush switch engaged.</b> | Faulty micro switch.                                     | Call for service.                                                    |

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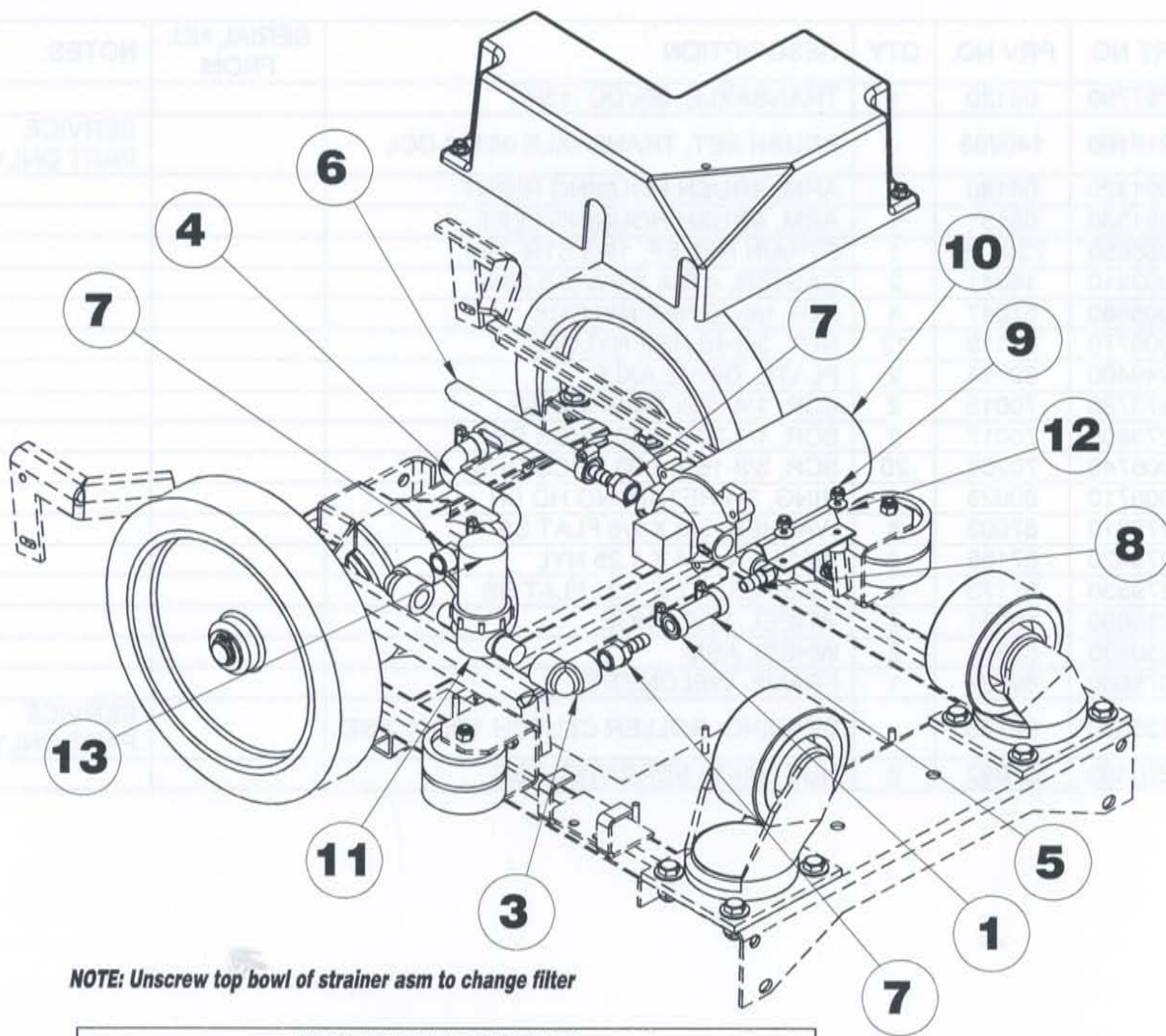
**VIEW: FRAME TURNED OVER**

This diagram shows the underside of the machine frame. It includes a large circular component (2) on the right, a long horizontal bar (3) with a bracket (4) at its right end, a central cylindrical component (6), and two smaller circular components (9) on the left. Arrows point from the numbered circles to their respective parts.

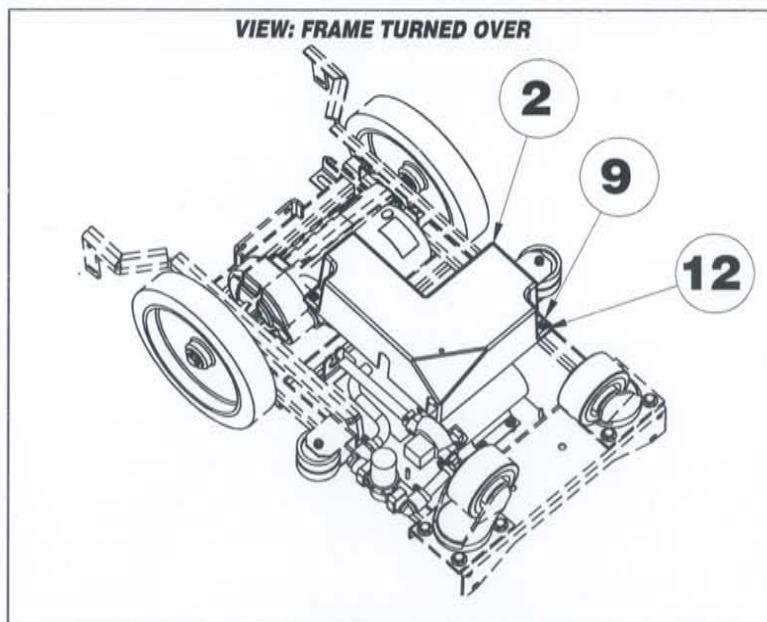
**FRAME ASSEMBLY PARTS LIST**

| Item | SKU    | QTY | Description                       |
|------|--------|-----|-----------------------------------|
| 1    | E87678 | 1   | TRANSAXLE, 90VDC.13HP             |
|      | 140593 | -   | BRUSH SET, TRANSAXLE 05120 CCL    |
| 2    | 05130  | 1   | ARM, BRUSH HOUSING RIGHT          |
| 3    | 05131  | 1   | ARM, BRUSH HOUSING LEFT           |
| 4    | 730175 | 1   | STRAIN RELIEF, 18/3 STR.75        |
| 5    | E87635 | 2   | CASTER, 4 DIA X 2W X 3.56R        |
| 6    | E85358 | 4   | NUT,1/4-20 HEX NYLOCK             |
| 7    | E87636 | 12  | NUT, 3/8-16 HEX NYLOCK            |
| 8    | 62714  | 2   | PLATE, DRIVE AXLE                 |
| 9    | 70015  | 2   | SCR, 1/4--20x 3/4 HHCS SS         |
| 10   | 70017  | 2   | SCR, 1/4-20 X 2.50 HHCS SS        |
| 11   | E87637 | 20  | SCR, 3/8-16 X 1.00 HHCS GR5       |
| 12   | 80623  | 4   | RING, 3/4 RETAINING HD SH         |
| 13   | E87638 | 8   | WASHER, 3/8 X 7/8 FLAT SS         |
| 14   | 87156  | 4   | WASHER, 3/4 X 1.25 NYL            |
| 15   | 87173  | 4   | WASHER, .77 X 1.31 FLAT SS        |
| 16   | 89051  | 4   | WHEEL, VAC SHOE                   |
| 17   | E87680 | 2   | WHEEL ASM.                        |
| 18   | 89137  | 1   | FRAME, WELDMENT                   |
| 19   | E88360 | -   | BEARING, ROLLER CLUTCH 1OD X.751D |
| 20   | E87260 | 8   | NUT, 3/8-16 SERRATED FLG          |

# **PUMP ASSEMBLY**



**NOTE:** Unscrew top bowl of strainer asm to change filter



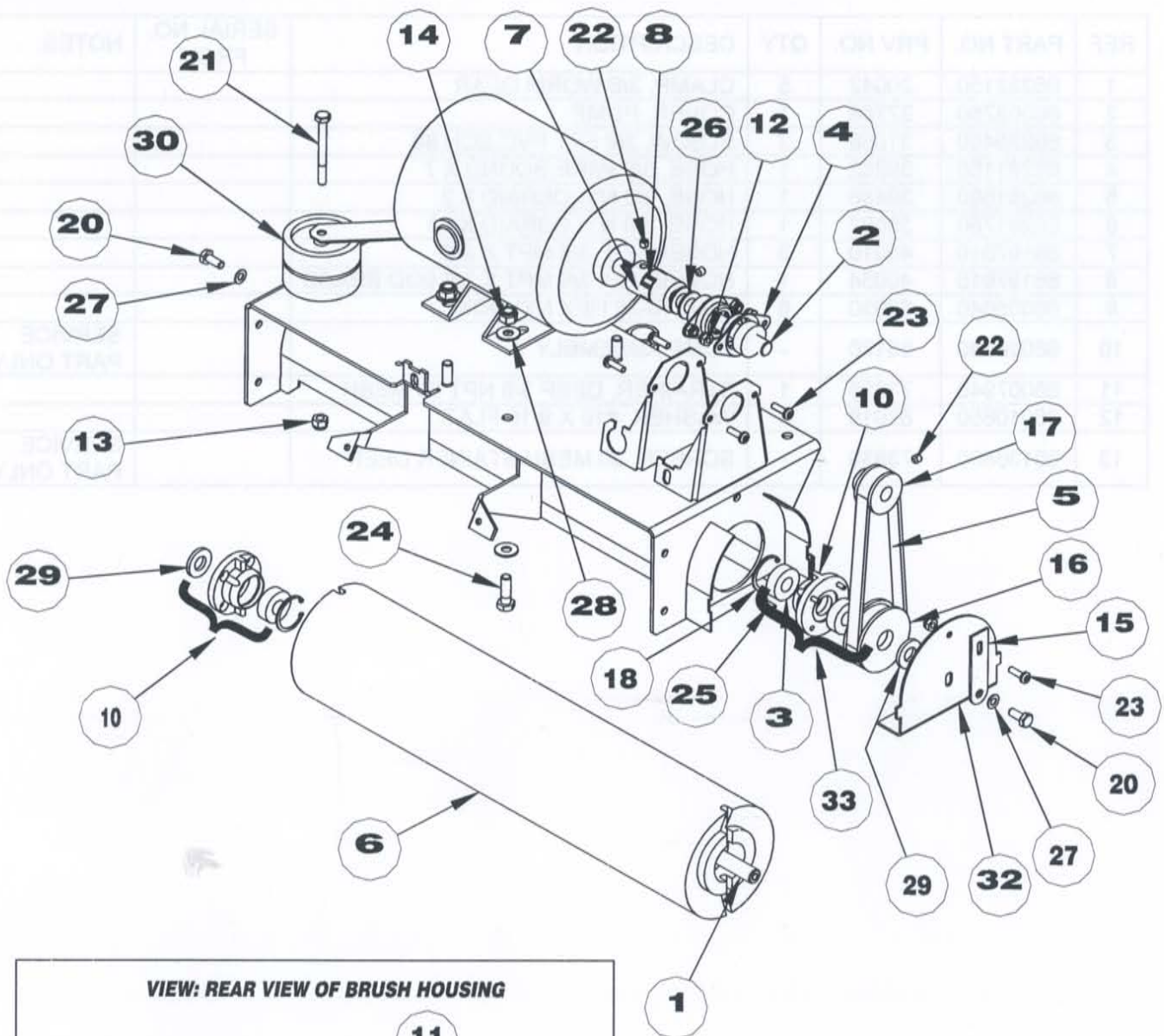
**NOTE:** To access pump asm remove items 86063750 – PRV NO. 27788, (2)86005640 – PRV NO. 57030, (2)86010650 – PRV NO. 87018

***PUMP ASSEMBLY PARTS LIST***

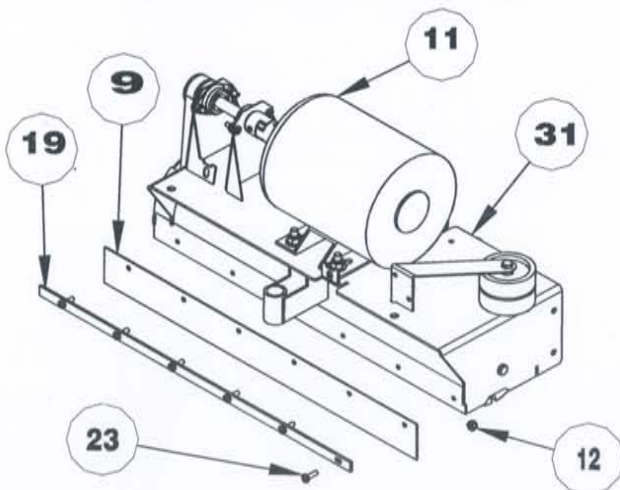
| <b>Item</b> | <b>SKU</b>    | <b>QTY</b> | <b>Description</b>                       |
|-------------|---------------|------------|------------------------------------------|
| <b>1</b>    | <b>20042</b>  | <b>5</b>   | <b>CLAMP, 3/8 WORM GEAR</b>              |
| <b>2</b>    | <b>E87272</b> | <b>1</b>   | <b>COVER, PUMP</b>                       |
| <b>3</b>    | <b>E87526</b> | <b>2</b>   | <b>ELBOW, 3/8 FPT PVC SCH 80</b>         |
| <b>4</b>    | <b>E87248</b> | <b>1</b>   | <b>HOSE, 3/8 WIRE BOUND X 7</b>          |
| <b>5</b>    | <b>E87249</b> | <b>1</b>   | <b>HOSE, 3/8 NYLOBRAID X 2</b>           |
| <b>6</b>    | <b>E87250</b> | <b>1</b>   | <b>HOSE, 3/8 NYLOBRAID X 33</b>          |
| <b>7</b>    | <b>40010</b>  | <b>3</b>   | <b>HOSEBARB, 3/8 MPT X 3/8</b>           |
| <b>8</b>    | <b>40034</b>  | <b>1</b>   | <b>HOSEBARB, 3/8 MPT X 3/8 90D BRASS</b> |
| <b>9</b>    | <b>E87515</b> | <b>6</b>   | <b>NUT, 10-32 HEX NYLOCK</b>             |
| <b>10</b>   | <b>E87401</b> | <b>-</b>   | <b>PUMP ASSEMBLY</b>                     |
| <b>11</b>   | <b>E87400</b> | <b>1</b>   | <b>STRAINER, DEEP 3/8 NPT 80 MESH</b>    |
| <b>12</b>   | <b>E87561</b> | <b>6</b>   | <b>WASHER, #10 X 9/16 FLAT</b>           |
| <b>13</b>   | <b>E87599</b> | <b>-</b>   | <b>SCREEN, 80 MESH STAINER DEEP</b>      |

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# BRUSH ASSEMBLY



**VIEW: REAR VIEW OF BRUSH HOUSING**

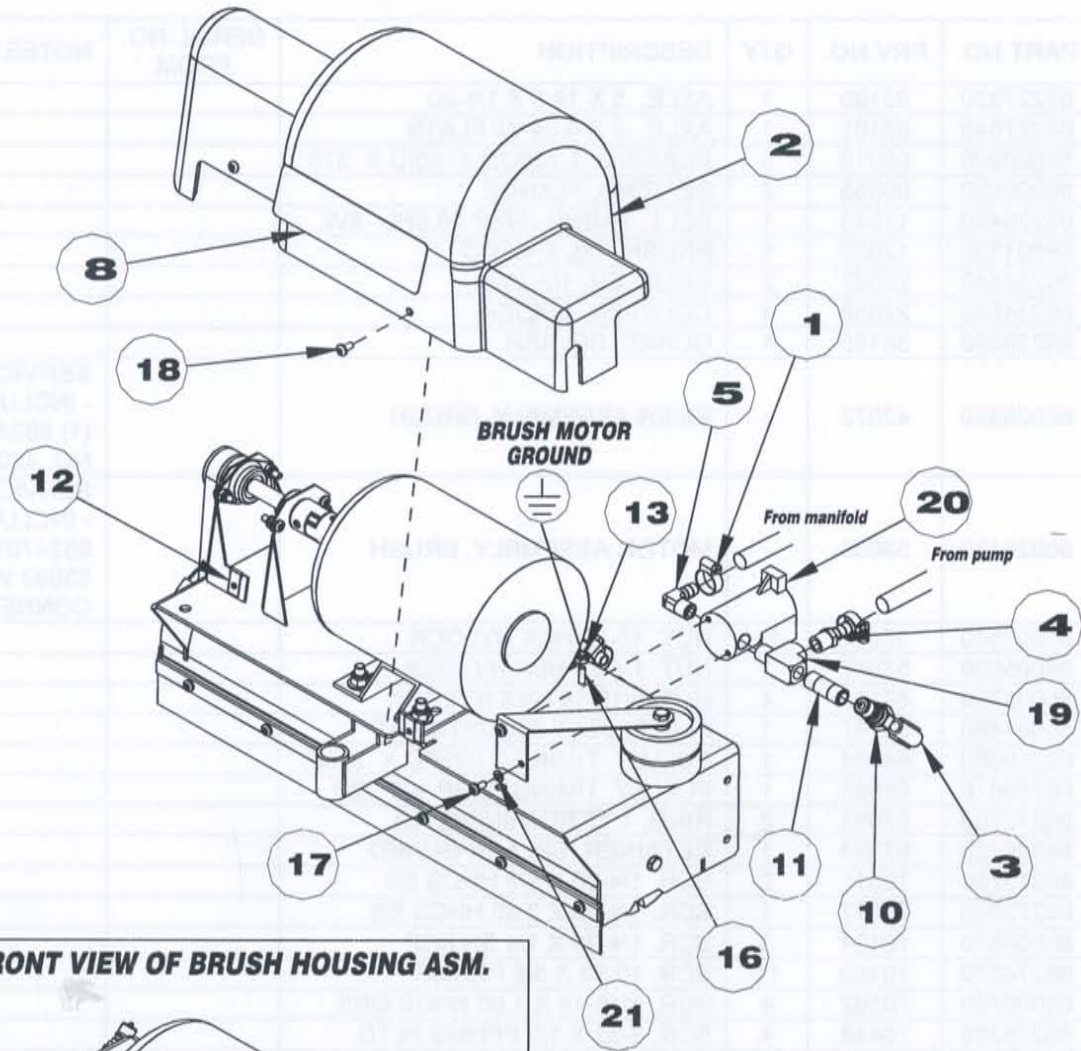


**NOTE:** To access brush/pulley asm, remove (1) 86273750 - PRV NO. 70011, (2) 86010660 - PRV NO. 87025, (1) 86078630 - PRV NO. 140277.

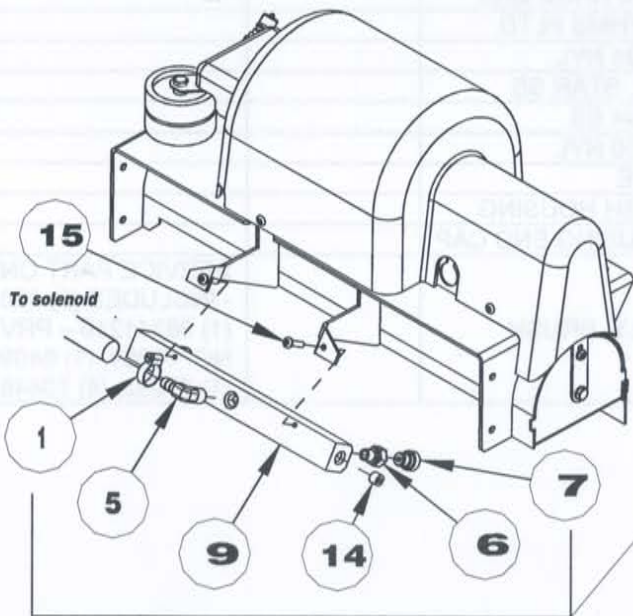
### **BRUSH ASSEMBLY PARTS LIST**

| Item | SKU    | QTY | Description                    |
|------|--------|-----|--------------------------------|
| 1    | E87543 | 1   | AXLE, .5 X 19.5 X 1/4-20       |
| 2    | E87540 | 1   | AXLE, .5 X 4.34 W/ FLATS       |
| 3    | E87500 | 5   | BEARING, 1.1250D X .501D X.375 |
| 4    | E87733 | 2   | BEARING, FLANGE                |
| 5    | E87402 | 1   | BELT, TIMING.375P 16.5PL .5W   |
| 6    | E87403 | 1   | BRUSH, 18L X 4.50D             |
| 7    | E87383 | 2   | COUPLER, 1/2 JAW               |
| 8    | E87384 | 1   | COUPLER, SPIDER                |
| 9    | E87727 | 1   | GUARD, SPLASH                  |
| 10   | E87719 |     | IDLER ASSEMBLY, BRUSH          |
| 11   | E87718 |     | MOTOR ASSEMBLY, BRUSH          |
| 12   | E87515 | 11  | NUT, 10-32 HEX NYLOCK          |
| 13   | E85358 | 1   | NUT, 1/4-20 HEX NYLOCK         |
| 14   | 57113  | 4   | NOT, 5/16-18 HEX NYLOCK        |
| 15   | E87243 | 1   | PLATE, BELT ADJUSTMENT         |
| 16   | E87477 | 1   | PULLEY, TIMING 2.029PD X.375P  |
| 17   | E87433 | 1   | PULLEY, TIMING.375P 10T .SID   |
| 18   | E87478 | 2   | RING, 1.13 RETAINING HO        |
| 19   | E87269 | 1   | RETAINER, SPLASH GUARD         |
| 20   | E87246 | 2   | SCR, 1/4-20 X 5/8 HHCS SS      |
| 21   | 70017  | 1   | SCR, 1/4-20 X 2.50 HHCS SS     |
| 22   | E87259 | 3   | SCR, 1/4-20 X 1/4 SH KCP       |
| 23   | E87244 | 11  | SCR, 10-32 X 5/8 PPHMS         |
| 24   | 70302  | 4   | SCR, 5/16-18 X 1.00 HHCS GR5   |
| 25   | E87476 | 4   | SCR, 6-32 X 1/2 PFHMS PLTD     |
| 26   | E87268 | 2   | WASHER, .506 X.94 NYL          |
| 27   | E87247 | 2   | WASHER, 1/4 EXT. STAR SS       |
| 28   | E87623 | 8   | WASHER, 5/16 X 3/4 SS          |
| 29   | E87693 | 2   | WASHER, 1/2 X 1.00 NYL         |
| 30   | 89051  | 2   | WHEEL, VAC SHOE                |
| 31   | E87223 | 1   | WELDMENT, BRUSH HOUSING        |
| 32   | E87245 | 1   | BRKT, BRUSH HOUSING END CAP    |
| 33   | E87596 | -   | PULLEY ASSEMBLY, BRUSH         |

## SOLENOID AND MANIFOLD ASSEMBLIES



**VIEW: FRONT VIEW OF BRUSH HOUSING ASM.**



**NOTE:** To access solenoid remove items  
(1) 86063740 – PRV NO. 27775,  
(4) 86278530 – PRV NO. 70406

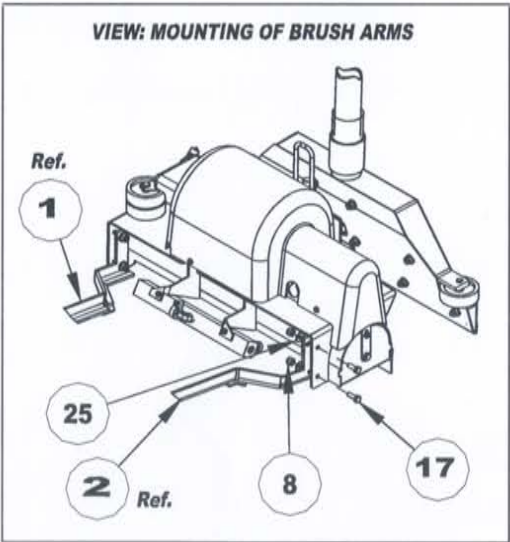
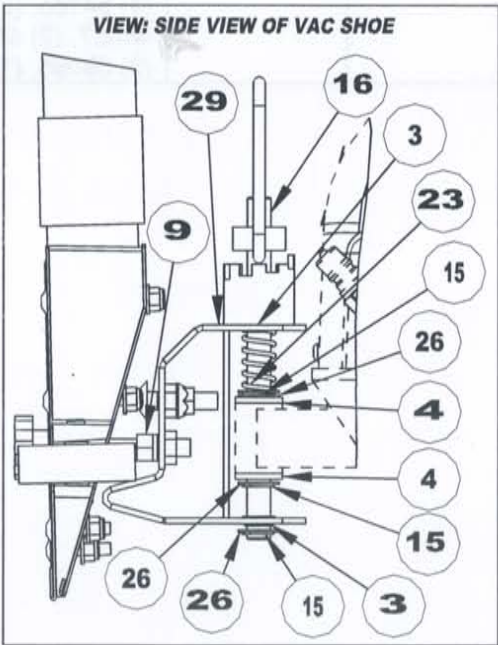
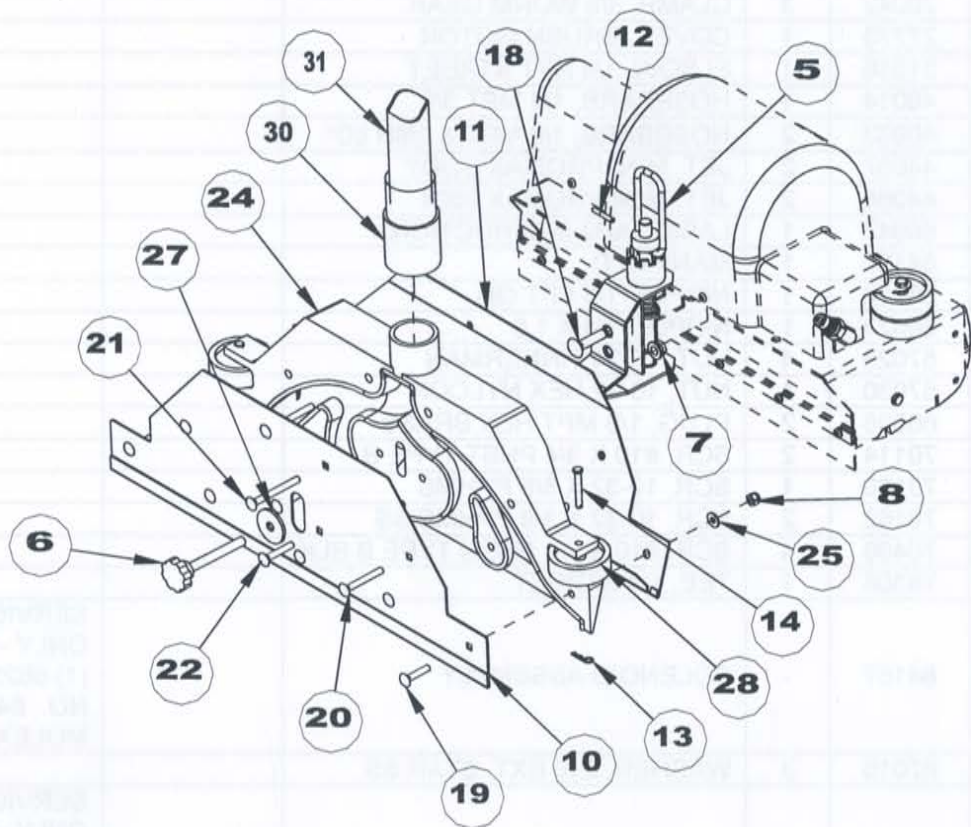
**NOTE:** To remove manifold asm remove item # (2)86006600- PRV NO. 70114

**SOLENOID AND MANIFOLD  
ASSEMBLIES PARTS LIST**

| Item | SKU    | QTY | Description                    |
|------|--------|-----|--------------------------------|
| 1    | 20042  | 3   | CLAMP, 3/8 WORM GEAR           |
| 2    | E87308 | 1   | COVER, BRUSH MOTOR             |
| 3    | E87276 | 1   | ELBOW, 1/4 NPT STREET          |
| 4    | E87275 | 1   | HOSEBARB, 1/4 MPT 3/8          |
| 5    | E87273 | 2   | HOSEBARB, 1/4 MPT X 3/8H 900   |
| 6    | E87512 | 2   | JET, MINI PROMAX BODY          |
| 7    | E87728 | 2   | JET, MINI PROMAX 9504          |
| 8    | 50947  | 1   | LABEL, ADJ INSTRUCTION         |
| 9    | E87532 | 1   | MANIFOLD                       |
| 10   | E85638 | 1   | NIPPLE, 1/4 FPT QD             |
| 11   | E87306 | 1   | NIPPLE, 1/4 X 1.5              |
| 12   | 57028  | 4   | NUT, 10-24 TINNERMAN           |
| 13   | E87515 | 1   | NUT, 10-32 HEX NYLOCK          |
| 14   | 66095  | 2   | PLUG, 1/8 MPT HEX BRASS        |
| 15   | E87491 | 2   | SCR, #10 X 3/4 PHST TYPE B     |
| 16   | E87244 | 1   | SCR, 10-32 X 5/8 PPHMS         |
| 17   | E87270 | 2   | SCR, 10-32 X 3/8 PPHMS SS      |
| 18   | E87541 | 4   | SCR, #10 X 3/8 PHSM TYPE B BLK |
| 19   | E87307 | 1   | TEE, 1/4 STREET                |
| 20   | E87726 | -   | SOLENOID ASSEMBLY              |
| 21   | E87560 | 3   | WASHER, #10 EXT. STAR SS       |
| 22   | E87488 | -   | MANIFOLD ASSEMBLY              |

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VACUUM SHOE ASSEMBLY

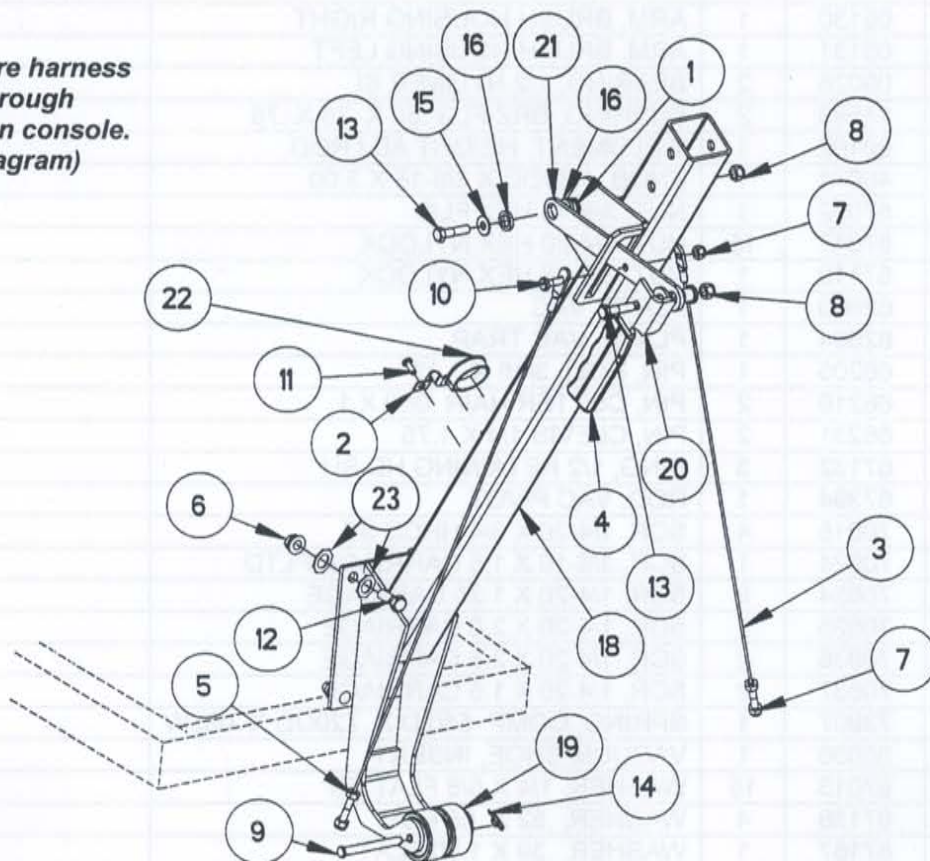


# VACUUM SHOE ASSEMBLY PARTS LIST

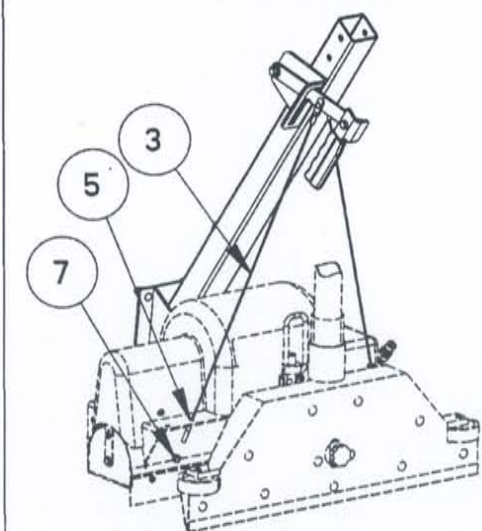
| Item | SKU    | QTY | Description                        |
|------|--------|-----|------------------------------------|
| 1    | 05130  | 1   | ARM, BRUSH HOUSING RIGHT           |
| 2    | 05131  | 1   | ARM, BRUSH HOUSING LEFT            |
| 3    | E88576 | 2   | BEARING, 1/2 NYLINER SI            |
| 4    | E87386 | 2   | BUSHING, BRZ FLG.50 X.75 X.75      |
| 5    | 89162  | 1   | WELDMENT, HEIGHT ADJ ROD           |
| 6    | E87742 | 1   | KNOB, 1.380D X 3/8-16 X 3.00       |
| 7    | E87260 | 1   | NUT, 3/8-16 HEX FLG                |
| 8    | E85358 | 15  | NUT, 1/4-20 HEX NYLOCK             |
| 9    | E87636 | 1   | NUT, 3/8-16 HEX NYLOCK             |
| 10   | E87535 | 1   | PLATE, VAC                         |
| 11   | E87537 | 1   | PLATE, VAC TRAP                    |
| 12   | 66205  | 1   | PIN, ROLL 3/16 X 1.13              |
| 13   | 66219  | 2   | PIN, COTTER HAIR.059 X 1           |
| 14   | 66231  | 2   | PIN, CLEVIS 1/4 X 1.75             |
| 15   | 67132  | 3   | RING, 1/2 RETAINING HD SH          |
| 16   | 67394  | 1   | ROD, VAC PIVOT                     |
| 17   | 70015  | 4   | SCR, 1/4-20 X 3/4 HHCS SS          |
| 18   | E87253 | 1   | SCR, 3/8-16 X 1.5 CARRIAGE PLTD    |
| 19   | 70634  | 5   | SCR, 1/4-20 X 1.25 CARRIAGE        |
| 20   | 70635  | 2   | SCR, 1/4-20 X 2.0 CARRIAGE         |
| 21   | 70636  | 2   | SCR, 1/4-20 X 2.5 CARRIAGE         |
| 22   | 70637  | 2   | SCR, 1/4-20 X 1.5 CARRIAGE         |
| 23   | 73907  | 1   | SPRING, COMP .5501D X.7200D X.085W |
| 24   | E87574 | 1   | VACUUM SHOE, INSERT                |
| 25   | E87414 | 15  | WASHER, 1/4 X 5/8 FLAT SS          |
| 26   | 87136  | 4   | WASHER, .52 X.88 FLAT              |
| 27   | 87167  | 1   | WASHER, .39 X 1.50 FLAT            |
| 28   | 89051  | 2   | WHEEL, VAC SHOE                    |
| 29   | E87261 | 1   | BRKT, VAC SHOE ADJ. WELDMENT       |
| 30   | E87442 | 1   | CUFF, BLK VAC HOSE                 |
| 31   | E87443 | 1   | HOSE, 1.5 BLK VAC X 30             |

# LIFT LEVER AND LOWER TOWER ASM.

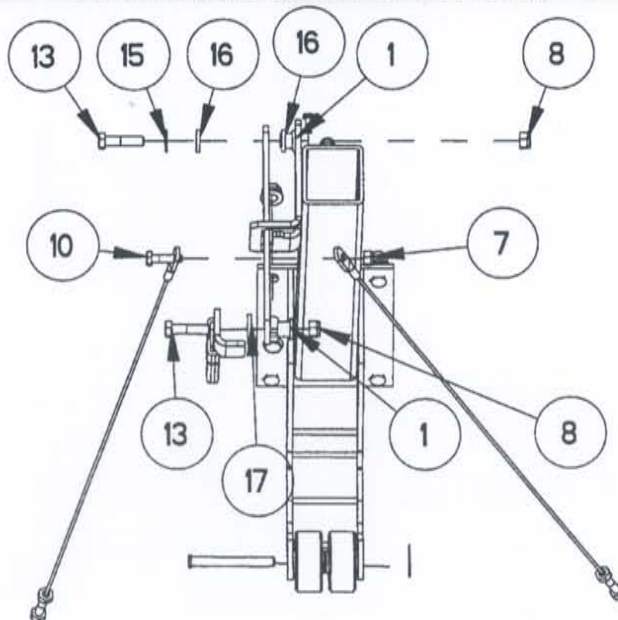
**NOTE:** Main wire harness from motors through bushing to main console.  
(Ref. Wiring Diagram)



VIEW: MOUNTING OF BRUSH ASM. TO TOWER



VIEW: FRONT VIEW OF TOWER (LIFT HANDLE)

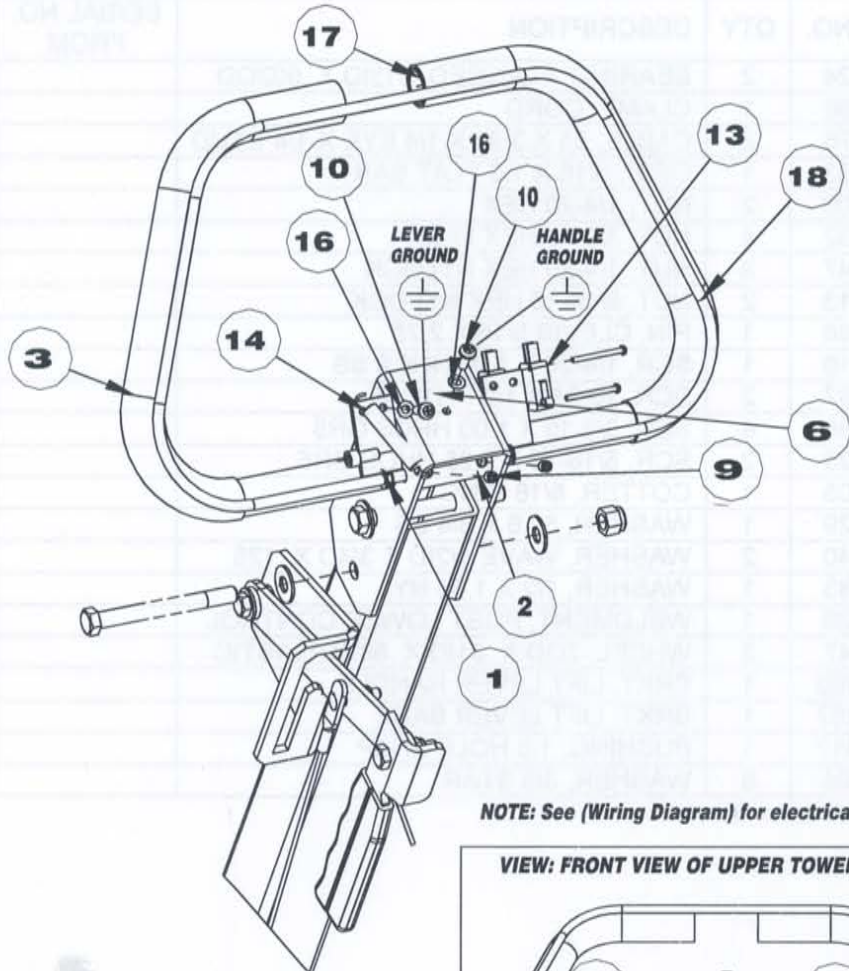


**LIFT LEVER AND LOWER TOWER ASSEMBLY  
PARTS LIST**

| Item | SKU    | QTY | Description                           |
|------|--------|-----|---------------------------------------|
| 1    | E87539 | 2   | BEARING, FLANGED.3131D X.5020D        |
| 2    | 20086  | 1   | CLAMP, CORD                           |
| 3    | E87438 | 2   | CABLE, 25 X 3/32 X 1/4 EYE X 1/4 STUD |
| 4    | E87162 | 1   | GRIP, 3/16 X 1.0 FLAT BAR             |
| 5    | E87441 | 2   | NUT, 1/4-20 HEX                       |
| 6    | E87260 | 4   | NUT, 3/8-16 HEX FLG                   |
| 7    | E85358 | 3   | NUT, 1/4-20 HEX NYLOCK                |
| 8    | E81063 | 2   | NUT, 5/16-18 HEX NYLOCK               |
| 9    | E87597 | 1   | PIN, CLEVIS 5/16 X 2.75               |
| 10   | 70018  | 1   | SCR, 1/4-20 X 1.00 HHCS SS            |
| 11   | 70187  | 2   | SCR, 10-24 X 1/2 PHTC -F-             |
| 12   | E87637 | 4   | SCR, 3/8-16 X 1.00 HHCS GR5           |
| 13   | E87239 | 2   | SCR, 5/16-18 X 1.25 HHCS GR5          |
| 14   | E87598 | 1   | COTTER, 5/16 RING                     |
| 15   | E87623 | 1   | WASHER, 5/16 X 3/4 SS                 |
| 16   | E83269 | 2   | WASHER, WAVE 1/21D X 3/4D X.125       |
| 17   | E87693 | 1   | WASHER, 1/2 X 1.00 NYL                |
| 18   | E87697 | 1   | WELDMENT, POST LOWER CONTROL          |
| 19   | E87538 | 2   | WHEEL, 20D X.31 ID X.88W PLASTIC      |
| 20   | E87163 | 1   | BRKT, LIFT LEVER HANDLE               |
| 21   | E87590 | 1   | BRKT, LIFT LEVER BASE                 |
| 22   | 140317 | 1   | BUSHING, 1.5 HOLE SNAP                |
| 23   | 87024  | 8   | WASHER, 3/8 STAR                      |

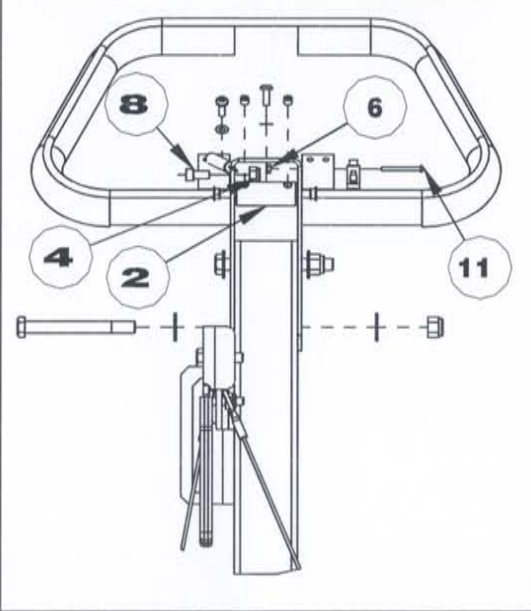
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UPPER TOWER ASSEMBLY

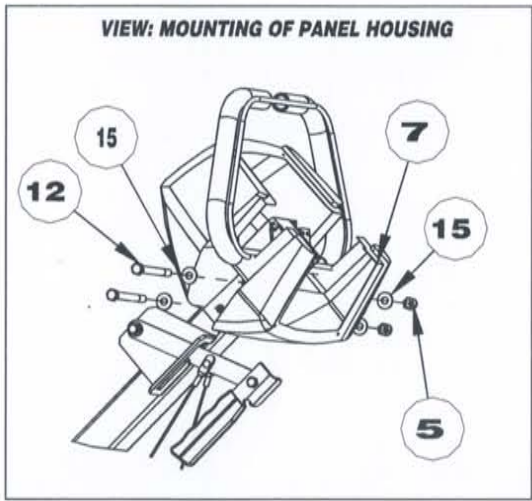


NOTE: See (Wiring Diagram) for electrical wiring layout.

VIEW: FRONT VIEW OF UPPER TOWER ASSEMBLY



VIEW: MOUNTING OF PANEL HOUSING

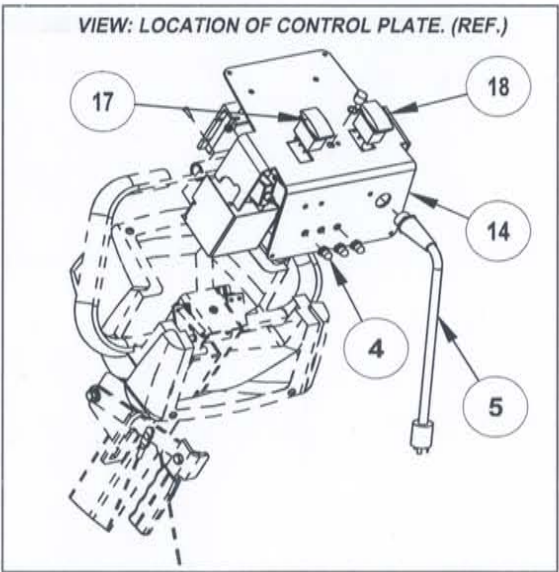
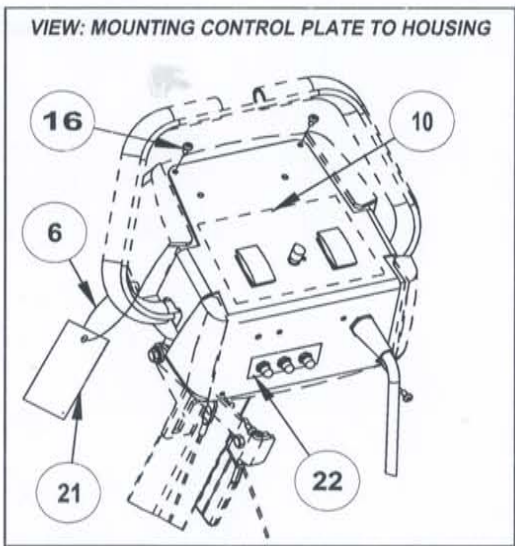
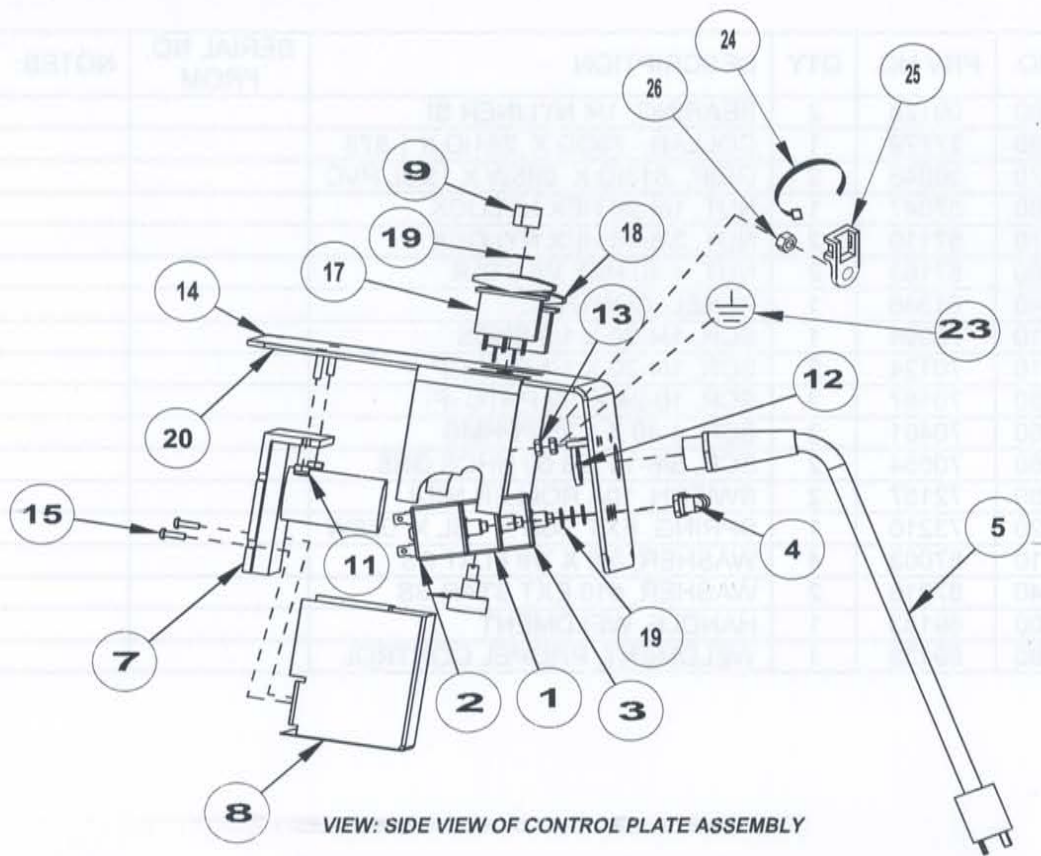


**UPPER TOWER ASSEMBLY PARTS LIST**

| Item | SKU    | QTY | Description                      |
|------|--------|-----|----------------------------------|
| 1    | 9128   | 2   | BEARING, 1/4 NYLINER SI          |
| 2    | 27779  | 1   | COLLAR, .750D X.281 ID X 1.875   |
| 3    | E87412 | 2   | GRIP, .8131D X .085W X 13.OL PVC |
| 4    | E85358 | 1   | NUT, 1/4-20 HEX NYLOCK           |
| 5    | E87636 | 2   | NUT, 3/8-16 HEX NYLOCK           |
| 6    | 57163  | 2   | NUT, 4-40 HEX W/ STAR            |
| 7    | 61346  | 1   | PANEL, CONTROL                   |
| 8    | 70094  | 1   | SCR, 1/4-20 X 1/2 SHCS           |
| 9    | E87259 | 2   | SCR, 1/4-20 X 1/4 SH KCP         |
| 10   | 70187  | 2   | SCR, 10-24 X 1/2 PHTC -F-        |
| 11   | 70401  | 2   | SCR, 4-40 X 1.25 PPHMS           |
| 12   | 70554  | 2   | SCR, 3/8-16 X 3.50 HHCS GR5      |
| 13   | E87529 | 2   | SWITCH, 10A ROLLER MINI          |
| 14   | 73210  | 1   | SPRING, EXT.36D X 1.5L X.058W    |
| 15   | E87638 | 4   | WASHER, 3/8 X 7/8 FLAT SS        |
| 16   | E87560 | 2   | WASHER, #10 EXT STAR SS          |
| 17   | 89133  | 1   | HANDLE, WELDMENT                 |
| 18   | 89138  | 1   | WELDMENT, PROPEL CONTROL         |

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**CONTROL PANEL ASSEMBLY**



### CONTROL PANEL ASSEMBLY PARTS LIST

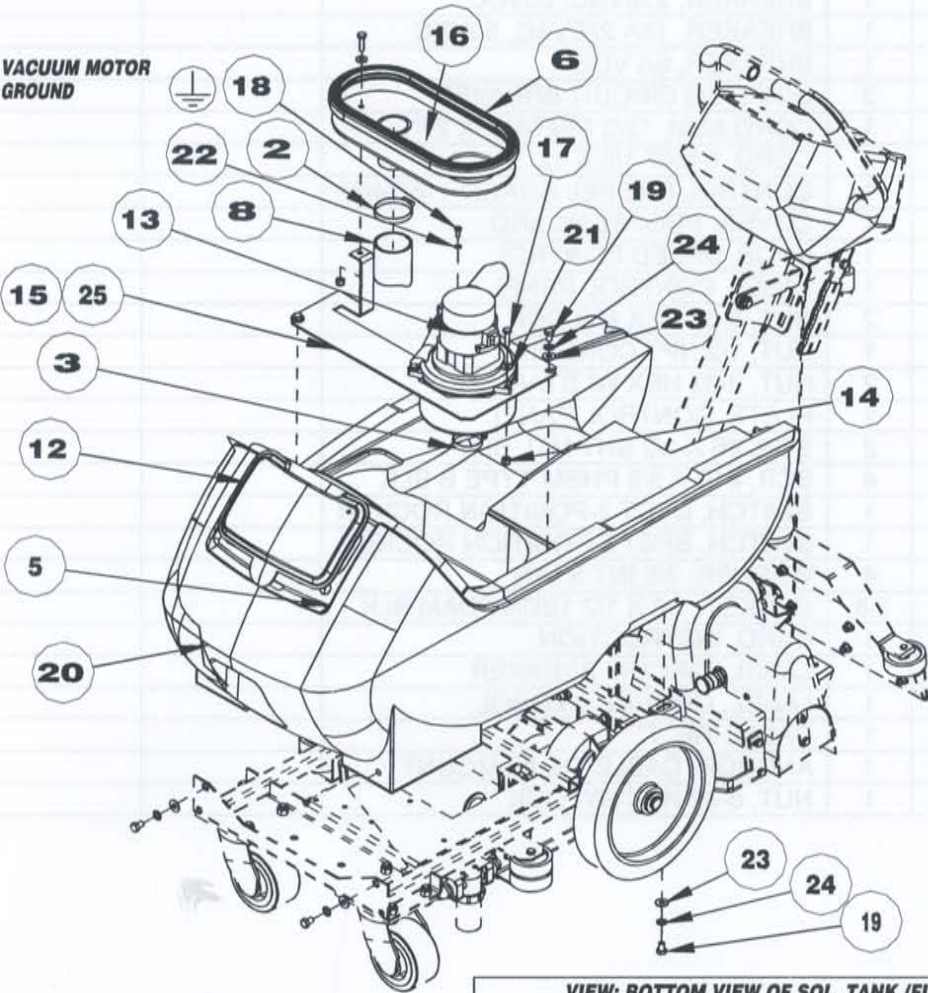
| Item | SKU    | QTY  | Description                     |
|------|--------|------|---------------------------------|
| 1    | E87352 | 1    | BREAKER, 250VAC, 50VDC          |
| 2    | E87503 | 1    | BREAKER, 15A 250VAC, 50VDC      |
| 3    | E87504 | 1    | BREAKER, 6A VDE                 |
| 4    | E87505 | 3    | BOOT, 3/8 CIRCUIT BREAKER       |
| 5    | E87404 | 1    | CORD ASM, 12/3 PIGTAIL X 24"    |
| 6    | 27417  | 1    | CORD, 99807 1/8 X 12            |
| 7    | E87409 | 1    | CONTROL PROPEL BOARD 115/240V   |
| 8    | 27795  | 1    | COVER, PROPEL BOARD             |
| 9    | E87344 | 1    | KNOB, SPEED CONTROL             |
| 10   | E87981 | 1    | LABEL, CONTROL PANEL            |
| 11   | 57026  | 2    | NUT, 8-32 HEX NYLOCK            |
| 12   | 57040  | 1    | NUT, 1/2 NPT CONDUIT            |
| 13   | 57106  | 2    | NUT, 8-32 HEX W/ STAR           |
| 14   | E87293 | 1    | PLATE, CONTROL PANEL            |
| 15   | 70219  | 2    | SCR, #6 X 1/2 SHT MTL BLK       |
| 16   | E87541 | 4    | SCR, #10 X 3/8 PHSM TYPE B BLK  |
| 17   | E87405 | 1    | SWITCH, DPDT 2-POSITION ROCKER  |
| 18   | E87609 | 1    | SWITCH, SPST 2-POSITION ROCKER  |
| 19   | 87100  | 4    | WASHER, 3/8 INT STAR            |
| 20   | E87294 | 2.8' | GASKET, 1/8 X 1/2 1SDA FOAM BLK |
| 21   | 500235 | 1    | CARD, INSTRUCTION               |
| 22   | 500079 | 1    | LABEL, CIRCUIT BREAKER          |
| 23   | 50279  | 1    | LABEL, GROUND SYMBOL            |
| 24   | 27049  | 1    | CABLE TIE, 7"                   |
| 25   | 5153   | 1    | ANCHOR, CABLE TIE #8 MOUNT      |
| 26   | 57049  | 1    | NUT, 6-32 HEX NYLOCK            |

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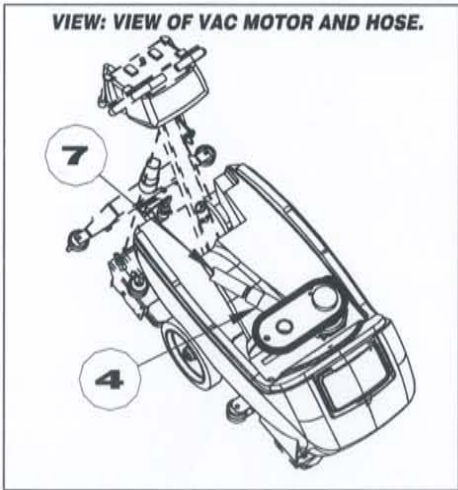
SOLUTION TANK ASSEMBLY

| REF | PART NO. | QTY | DESCRIPTION   | FROM | NOTES |
|-----|----------|-----|---------------|------|-------|
| 1   | 16       | 1   | Solution tank |      |       |
| 2   | 2        | 1   | Seal          |      |       |
| 3   | 3        | 1   | Seal          |      |       |
| 4   | 4        | 1   | Seal          |      |       |
| 5   | 5        | 1   | Seal          |      |       |
| 6   | 6        | 1   | Seal          |      |       |
| 7   | 7        | 1   | Seal          |      |       |
| 8   | 8        | 1   | Seal          |      |       |
| 9   | 9        | 1   | Seal          |      |       |
| 10  | 10       | 1   | Seal          |      |       |
| 11  | 11       | 1   | Seal          |      |       |
| 12  | 12       | 1   | Seal          |      |       |
| 13  | 13       | 1   | Seal          |      |       |
| 14  | 14       | 1   | Seal          |      |       |
| 15  | 15       | 1   | Seal          |      |       |
| 16  | 16       | 1   | Seal          |      |       |
| 17  | 17       | 1   | Seal          |      |       |
| 18  | 18       | 1   | Seal          |      |       |
| 19  | 19       | 1   | Seal          |      |       |
| 20  | 20       | 1   | Seal          |      |       |
| 21  | 21       | 1   | Seal          |      |       |
| 22  | 22       | 1   | Seal          |      |       |
| 23  | 23       | 1   | Seal          |      |       |
| 24  | 24       | 1   | Seal          |      |       |
| 25  | 25       | 1   | Seal          |      |       |

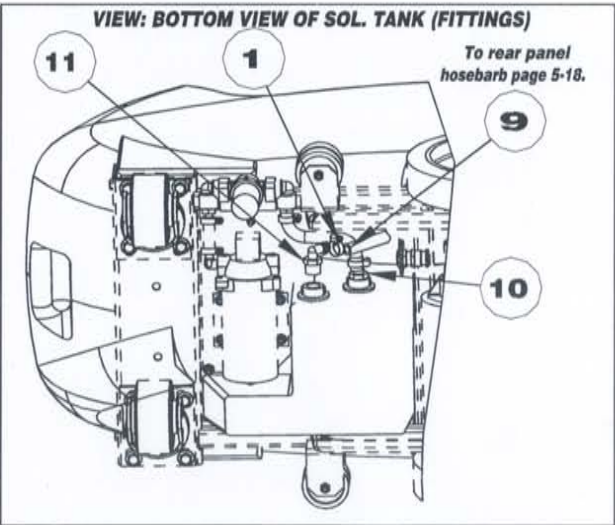
VACUUM MOTOR  
GROUND



VIEW: VIEW OF VAC MOTOR AND HOSE.



VIEW: BOTTOM VIEW OF SOL. TANK (FITTINGS)

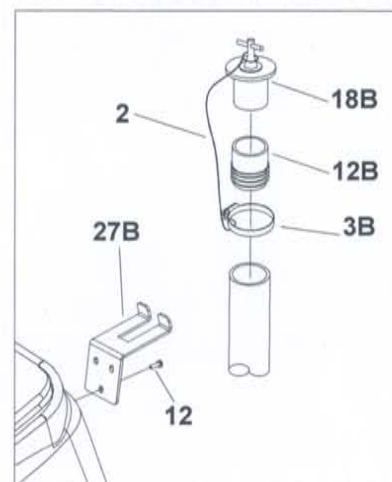


To rear panel  
hose barb page 5-18.

# SOLUTION TANK ASSEMBLY PARTS LIST

| Item | SKU    | QTY | Description                     |
|------|--------|-----|---------------------------------|
| 1    | 20042  | 1   | CLAMP, 3/8 WORM GEAR            |
| 2    | E87613 | 2   | CLAMP, 2.25 WORM GEAR           |
| 3    | 20063  | 1   | CLAMP, 1.75 WORM GEAR X.312     |
| 4    | E87442 | 1   | CUFF, BLK VAC HOSE              |
| 5    | 27417  | 1   | CORD, 99807 1/8 X 12            |
| 6    | 35226  | 1   | GASKET, DOME 91D X 30.75L       |
| 7    | 39337  | 1   | HOSE, 1.5 BLUE VAC X 24         |
| 8    | E87633 | 1   | HOSE, 2" VAC X 20"              |
| 9    | E87251 | 1   | HOSE, DRAIN X 44"               |
| 10   | E87496 | 1   | HOSEBARB, 1/2 MPT X 3/8 NYLON   |
| 11   | E87497 | 1   | HOSEBARB, 1/2 MPT X 1/2 HOSE 90 |
| 12   | E87393 | 1   | LID, SOLUTION TANK              |
| 13   | E87406 | -   | VAC MOTOR ASSEMBLY              |
| -    | E87161 | -   | BRUSH SET, 120V 5.7 VAC AMETEK  |
| -    | E87271 | -   | BRUSH SET, 120V VAC WINDSOR     |
| 14   | E85358 | 4   | NUT, 1/4-20 HEX NYLOCK          |
| 15   | 62691  | 1   | PLATE, VAC MOTOR                |
| 16   | 62754  | 1   | PLATE, VAC MOTOR COOLING        |
| 17   | 70018  | 4   | SCR, 1/4-20 X 1.00 HHCS SS      |
| 18   | 70187  | 1   | SCR, 10-24 X 1/2 PHTC -F-       |
| 19   | 70375  | 6   | SCR, 5/16-18 X 1/2 HHCS GR5     |
| 20   | E87471 | 1   | TANK, SOLUTION                  |
| 21   | E87414 | 4   | WASHER, 1/4 X 5/8 FLAT SS       |
| 22   | E87560 | 1   | WASHER, #10 EXT STAR SS         |
| 23   | E87623 | 6   | WASHER, 5/16 X 3/4 SS           |
| 24   | 87067  | 6   | WASHER, 5/16 INT STAR           |

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# RECOVERY TANK ASSEMBLY PARTS LIST

| Item | SKU    | QTY | Description                    |
|------|--------|-----|--------------------------------|
| 1    | 14665  | 1   | BRKT, PT17 SIGHT TUBE          |
| 2    | E87615 | 1   | TETHER, DRAIN PLUG             |
| 3A   | E85458 | 3   | CLAMP, 2.0 WORM GEAR X.312     |
| 3B   | E85358 | 1   | CLAMP, 2.0" NYLON RATCHET      |
| 5    | 27765  | 1   | COVER, CMD20 REAR              |
| 6    | E87407 | 1   | DOME, CMD20                    |
| 7    | E87408 | 1   | FLOAT BALL, VAC SHUT OFF       |
| 8    | E87489 | 1   | GASKET, 1-1/2 COMPRESSION      |
| 9    | E87410 | 1   | GASKET, CMD20 DOME             |
| 10   | E87616 | 1   | HOSE, 1.5 X 24.0 DRAIN         |
| 11   | 40013  | 1   | HOSEBARB, 3/8MPT X 1/2HOSE     |
| 12A  | E87168 | 1   | HOSE, INSERT                   |
| 12B  | E87619 | 1   | HOSEBARB, 1.5 DOUBLE MCHD      |
| 13   | 50911  | 1   | LABEL, CMD20 RIGHT             |
| 14   | 50912  | 1   | LABEL, CMD20 LEFT              |
| 15   | E87515 | 4   | NUT, 10-32 HEX NYLCK           |
| 16   | E87490 | 1   | NUT, 1.5 SLIP JOINT            |
| 17   | 57044  | 1   | NUT, 3/8 NPT HEX BRASS         |
| 18A  | E87573 | 1   | HOSE,CAP                       |
| 18B  | E87620 | 1   | PLUG, DRAIN HOSE               |
| 19   | E87244 | 4   | SCR, 10-32 X 5/8 PPHMS         |
| 20   | 70274  | 6   | SCR, 5/16-18 X 3/4 FHMS BLK OX |
| 21   | 70302  | 1   | SCR, 5/16-18 X 1.00 HHCS GR5   |
| 22   | 75244  | 1   | TANK, RECOVERY CMD 20          |
| 23   | 78390  | 1   | TUBE, 1.5 WASTE                |
| 24   | E87561 | 8   | WASHER, #10 X 9/16 FLAT        |
| 25   | E87623 | 1   | WASHER, 5/16 X 3/4 SS          |
| 26   | 87067  | 1   | WASHER, 5/16 INT STAR          |
| 27A  | 140408 | 1   | BRKT, HOSE HOOK                |
| 27B  | E87563 | 1   | BRKT, RECOVERY HOSE MTG        |
| 28   | E87542 | 1   | CUFF, HOSE 1.5" BLK A 2126     |
| 29   | E87252 | 1   | HOSE, 1.5 BLK VAC X 52"        |
| 30   | E87551 | 1   | LABEL, BETCO LOGO (GRAY)       |
| 31   | E87411 | -   | DOME ASSEMBLY                  |

## SUGGESTED SPARE PARTS

| SKU    | Description                         |
|--------|-------------------------------------|
| E87500 | BEARING, 1.1250D X .5001D X .375    |
| E87402 | BELT, BRUSH DRIVE                   |
| E87741 | CORD SET, 14.3 SJTW-A X 50' YELLOW  |
| E85135 | CORD END, 125V 15A M NEMA5-15P      |
| E87442 | CUFF, BLK 1.91D VAC HOSE X 4.07     |
| E87410 | GASKET, DOME                        |
| 36054  | GUARD, THREAD                       |
| E87252 | HOSE, 1.5 BLU VAC X 52"             |
| 44051  | JET SEAL, MINI-QUICK                |
| 44062  | JET, 110015 MINI-QUICK              |
| 72004  | SWITCH, 125V SPST LIT RCKR          |
| 73250  | STRAINER, 3/8 FPT 80 MESH           |
| E87402 | BELT, TIMING.375P 16.5PL .5W        |
| E87403 | BRUSH, 18L X 4.50D                  |
| E87352 | BREAKER, 8A CIRCUIT                 |
| E87503 | BREAKER, 15A 250VAC 50VDC           |
| E87504 | BREAKER, 6A VDE CIRCUIT             |
| E87438 | CABLE, 25 X 3/32 1/4 EYE X 1/4 STUD |
| E87411 | DOME ASM                            |
| E87410 | GASKET, DOME                        |
| 39315  | HOSE, 1.5 BLU VAC X 28"             |
| E87719 | IDLER ASM, BRUSH                    |
| E87728 | JET, MINI PROMAX 9504               |
| E87406 | VAC MOTOR ASM                       |
| E87488 | MANIFOLD ASM                        |
| E87596 | PULLEY ASM, BRUSH                   |
| E87401 | PUMP ASM, 115V                      |
| E87405 | SWITCH, DPDT 2-POSITION ROCKER      |
| E87609 | SWITCH, SPST 2-POSITION ROCKER      |
| E87599 | SCREEN, 80 MESH STRAINER DEEP       |
| E87726 | SOLENOID ASM                        |
| E87161 | BRUSH SET, 120V 5.7 VAC AMETEK      |
| E87271 | BRUSH SET, 120V VAC WINDSOR         |

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