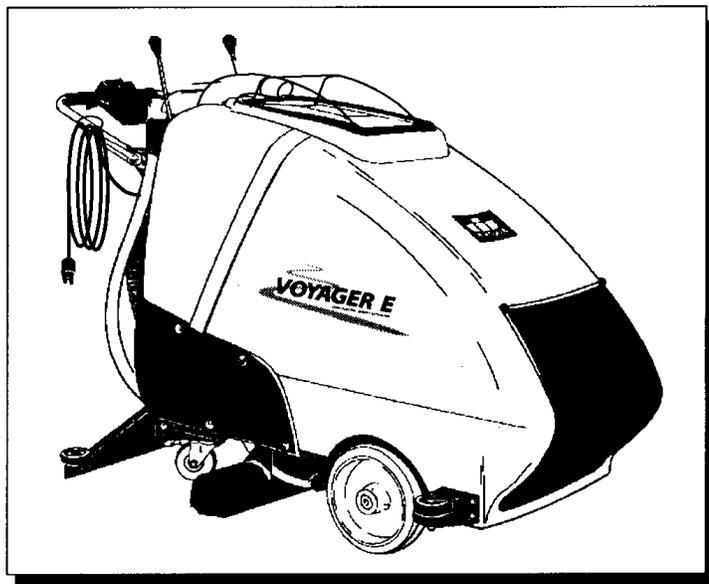


VOYAGER E

CORD ELECTRIC CARPET EXTRACTOR



Operating Instructions (ENG)



MODELS: **POWER SOURCE**
VGRE – 10086090 115V ELECTRIC

BEGINNING WITH SERIAL # 1000081026

QUEST® ... for Continuous Improvement.
Windsor's Quality Management System is Certified ISO 9001.

Read instructions before operating the machine.

 **CLICK TO ORDER PARTS**

MODEL _____
DATE OF PURCHASE _____
SERIAL NUMBER _____
SALES REPRESENTATIVE # _____
Copyright 1995 Windsor Industries, Printed in USA

YOUR DEALER
Name: _____
Address: _____
Phone Number: _____

OVERVIEW

The Voyager E is 115V electric powered, self-propelled, hard floor scrubber intended for commercial use. The appliance applies a cleaning solution onto a hard floor, scrubs the floor with brushes or pads, and then vacuums the soiled water back into the recovery tank.

INSPECTION

Carefully unpack and inspect your machine for shipping damage. Each unit is operated and thoroughly inspected before shipping, and any damage is the responsibility of the carrier, who should be notified immediately.

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HOW TO USE THIS MANUAL

This manual contains the following sections:

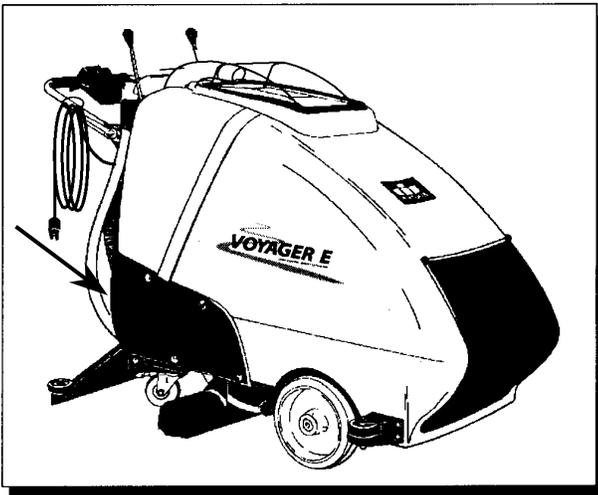
- HOW TO USE THIS MANUAL
- SAFETY
- OPERATIONS
- MAINTENANCE
- PARTS LIST

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

MODEL _____
DATE OF PURCHASE _____
SERIAL NUMBER _____
SALES REPRESENTATIVE # _____
<small>Copyright 1995 Windsor Industries, Printed in USA</small>

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



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:

- Emptying And Cleaning Tanks
- Vac Shoe Adjustment
- Service Schedule
- Machine Troubleshooting

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.

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

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

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

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

FOR SAFETY:

DO NOT OPERATE MACHINE:

Unless Trained and Authorized.

Unless Operation Guide is Read and understood.

In Flammable or Explosive areas.

In areas with possible falling objects.

WHEN SERVICING MACHINE:

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

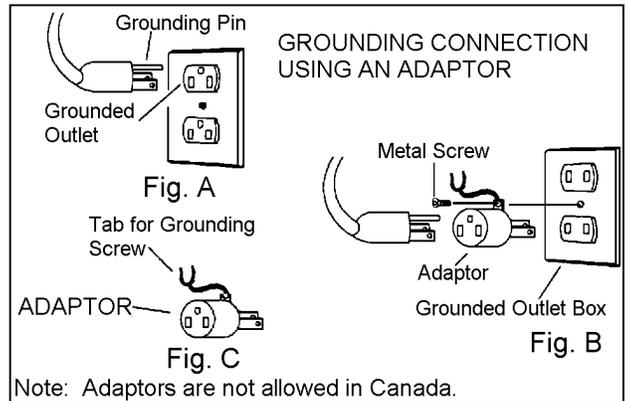
EXTENSION CORDS:

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.



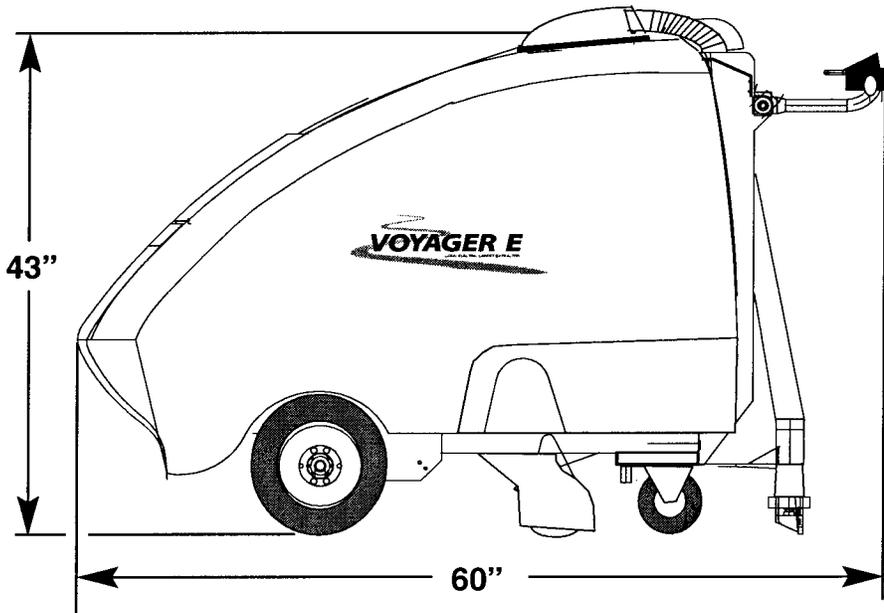
Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet,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

NOTES

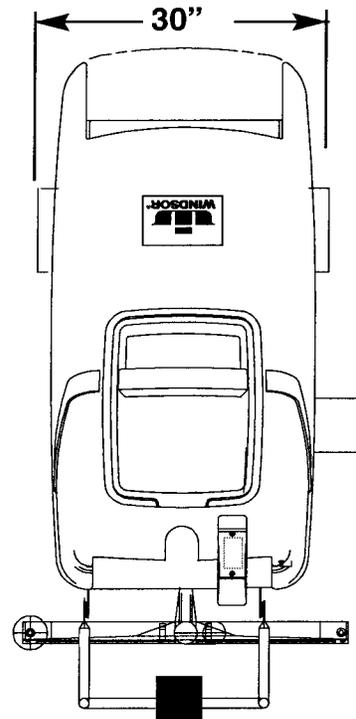
TECHNICAL SPECIFICATIONS

ITEM	DIMENSION/CAPACITY
Electrical	115V, 15A, 60HZ
Electric Propelling Motor	(1)-1/4 hp DC (186 watts) with variable speed forward and reverse, with safety shut-off.
Drive System	Belt Drive w/ manual clutching mechanism. Operating speed" 0-100 ft/min (30 m/min)
Electric Vacuum Motor	(1)-3 stage, 1 hp (746 watts), 99 cfm (2.80 m ³ /min.)
Waterlift	117" (397 cm). Electric float shut-off.
Electric Brush Motor	(1)-0.4 hp (298 watts) permanent magnet, DC.
Brush Speed	1000 RPM
Solution Pump	100 psi, diaphragm style pump
Solution Capacity	40 Gallons (151 ltr)
Recovery Capacity	35 Gallons (132 ltr)
Vacuum Shoe	28" (71 cm) wide, cast aluminum, adjustable floating and pivoting.
Wheels	
- Front (2)	10" dia. (25 cm) by 2.5" wide (6.4 cm)
- Rear (2)	4" dia. (10cm) casters
Dimensions – Weight (empty)	280 lbs. (127 kg)
Dimensions	
- Length	60" (152 cm)
- Storage Position	52" (132 cm)
Dimensions - Height	43" (109 cm)
Dimensions - Width	30" (76 cm)

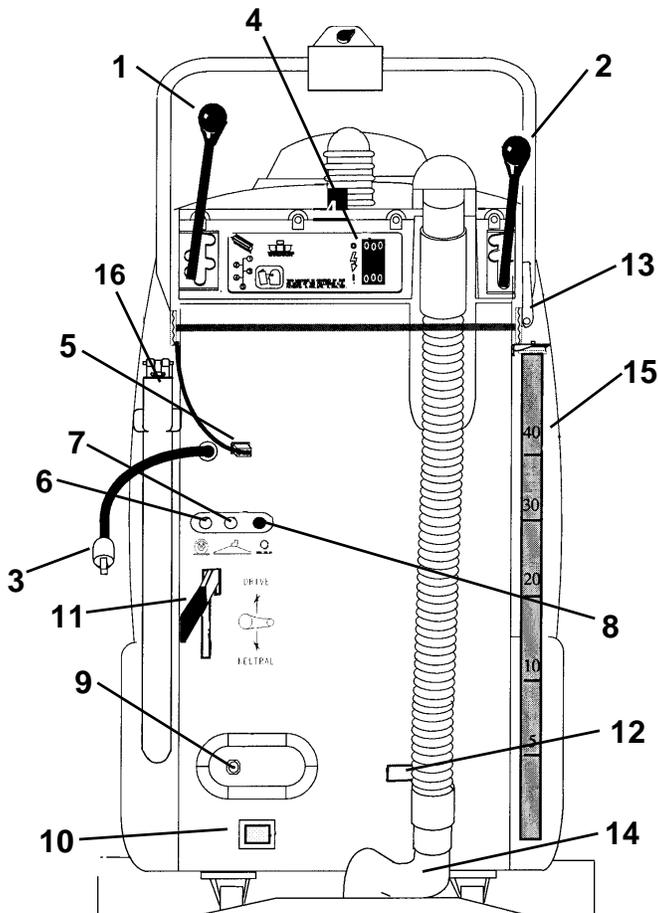
SIDE VIEW



TOP VIEW



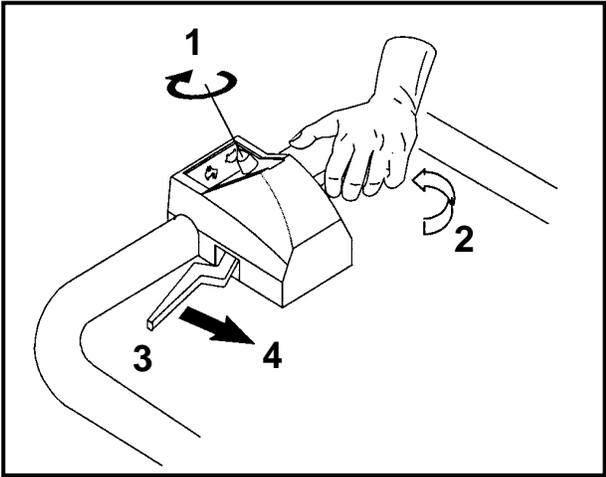
COMPONENTS



1. **Brush Height Adjustment** – Raises and adjusts the height of the brush.
2. **Vac Shoe Lift Lever** – Lifts the vac shoe up or down and switches vac motor off and on. 2nd slot for accessory tool use.
3. **Electrical Power Cord**
4. **Main Power Switch** – Turns On and Off the machine and pump.
5. **Drive Handle Control and Connection** – This is where the handle controls are connected electrically to the drive.
6. **Drive Motor Circuit Breaker** – 3 amp, protects the drive motor mechanism.
7. **Vac Motor Circuit Breaker** – 13 amp, protects the vacuum motor.
8. **Brush Motor Circuit Breaker** – 4 amp, protects the brush motor.
9. **Accessory Tool Hookup** – Used for various auxiliary cleaning tools.
10. **Hour Meter** – Displays the running time for the machine.
11. **Belt Tension Handle** – Puts machine into “Dirve” or “Neutral” engagement.
12. **Data Plate Label** – Shows serial number, model and voltage information.
13. **Height Adjustment Handle** – Adjusts the handle height for comfortable operation.
14. **Accessory Tool Hose Attachment** – To use accessory tool, remove hose from vac shoe and attach to accessory tool adapter.
15. **Sight fill tube.**
16. **Drain hose.**

OPERATION

CHEMICALS



SUITABLE CHEMICALS	NON-COMPATIBLE CHEMICALS
Alkalis	Aldehydes
Detergents	Aromatic Hydrocarbons
Hydroxides	SP Butyls
Soaps	Carbon Tetrachloride
Vinegar	Chlorox*
D-Limonene@	Chlorinated Bleaches
@When properly diluted	Chlorinated Hydrocarbons
* Registered Trademark	Lysol*
	Methyl Ethel Ketone (MEK)
	Perchorethylene (perc)
	Phenolics
	Trichlorethylene

DRIVE CONTROLS

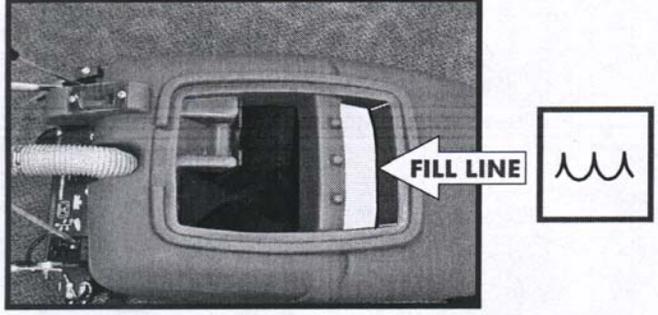
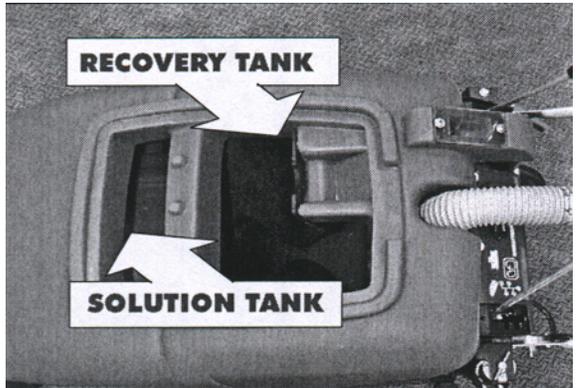
1. The speed the machine will travel is regulated by knob located on the controls which are found on the main handle. Turn the knob to the right to increase the speed of the machine.
2. Squeezing one or both of the control levers will propel the machine forward at the selected speed.
3. Releasing both control levers will stop the machine.
4. Pressing forward on the levers moves the machine backwards at the selected speed

NOTE: The internal parts of the pump used in the extractor are suitable for use with most carpet cleaning chemicals. However, it is susceptible to chemical attack from cleaning substances, such as hydrocarbon solvents and chlorinated bleaches. These noncombustible materials are not of the type normally used for carpet cleaning.

FILLING THE VOYAGER

NOTE: If a bucket is used to fill the tank, be sure it is clean.

⚠ WARNING: DO NOT PUT DEFOAMER, SOLVENTS, SPOTTER OR PRE-SPRAY CHEMICALS IN THE SOLUTION TANK.

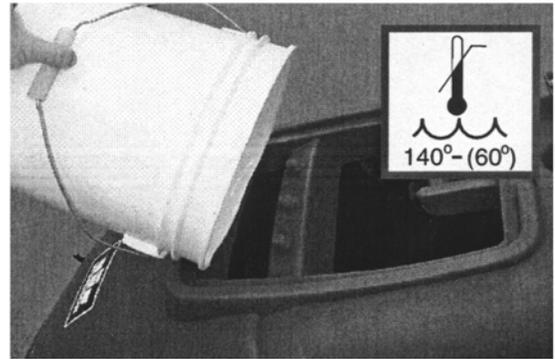


OPERATION

1. Remove dome lid.



2. Add water.



3. Add cleaning chemical.



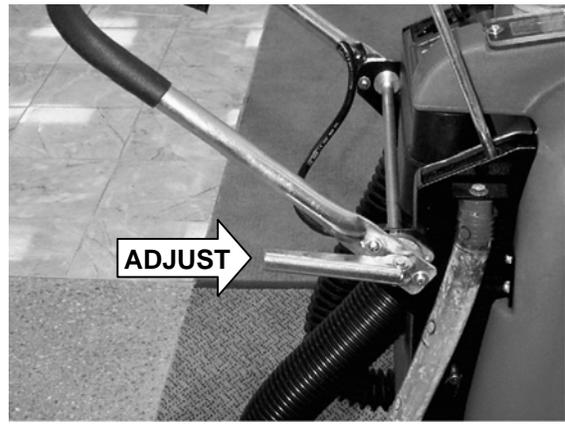
4. Replace dome lid.



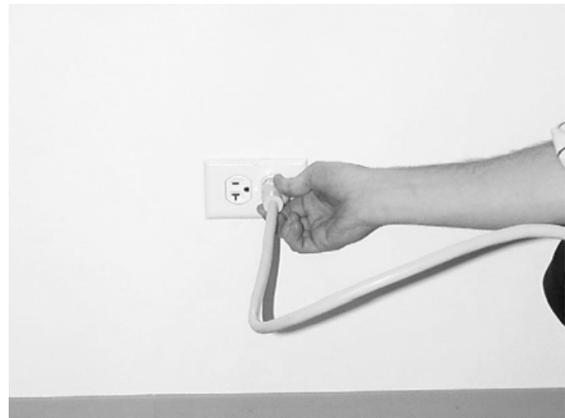
1. Remove cord from storage bin.



2. Adjust handle to operating position.



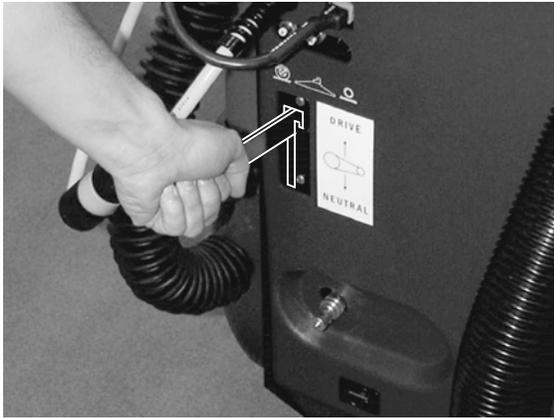
3. Plug cord into grounded outlet.



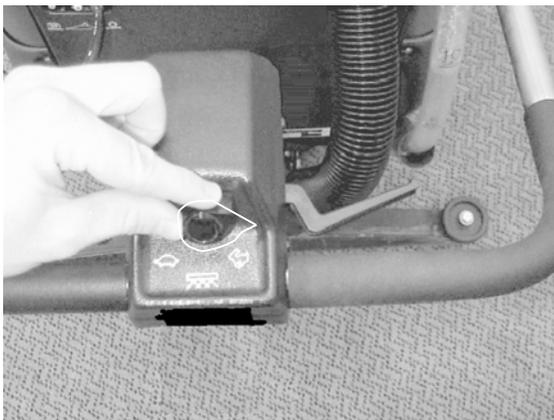
4. Turn Main Power Switch "ON" – "I"



OPERATION



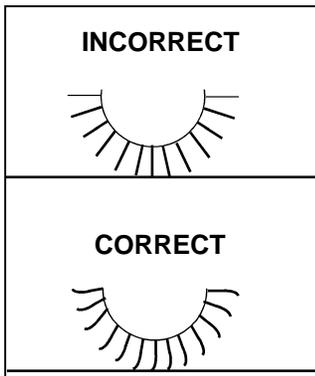
5. Lift belt tension handle to "Drive" position.



6. Adjust speed control knob to desired speed.

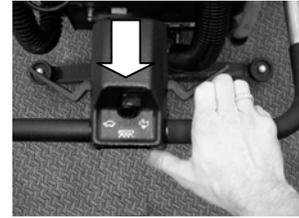


7. Turn vacuum motor on by lowering right hand lever all the way down.



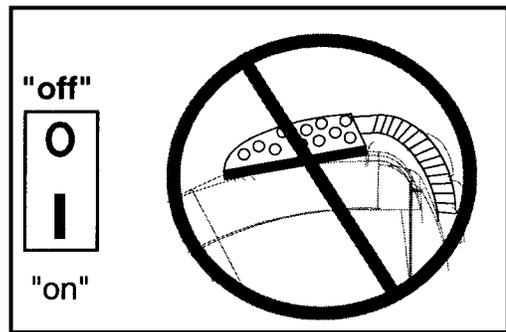
8. Lower brush to correct setting using left hand lever, listening for low hum of brush.

9. Depress speed lever to propel machine forward. Pressing forward on levers moves machine in reverse.



⚠ CAUTION:

Foam! Turn off machine and add defoamer.



CLEANING PROCEDURE

1. Operate machine in parallel passes. Clean perimeter last.



2. Use right side of machine for cleaning against walls.



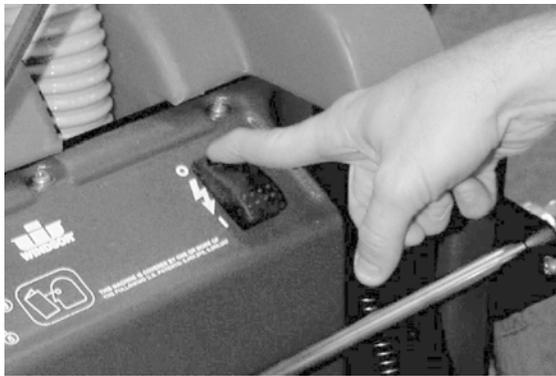
OPERATION



3. To speed drying, use a WINDBLOWER™ fan.



4. Empty recovery tank by releasing dump hose.



5. Turn Main Power Switch "OFF" – "O".



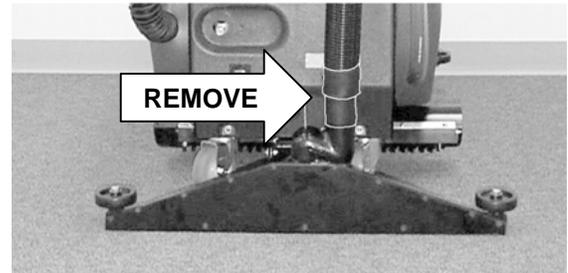
6. Unplug machine. Return cord to storage bin.

ACCESSORY TOOL USAGE

1. Insert collar over fitting.



2. Insert adapter into vac shoe hose, then insert accessory tool cuff onto adapter.



3. Squeeze handle on accessory tool to begin cleaning.



4. Turn Main Power Switch "ON" – "I"
Lower vacuum lever to intermediate position.



MAINTENANCE

EMPTYING AND CLEANING THE TANKS

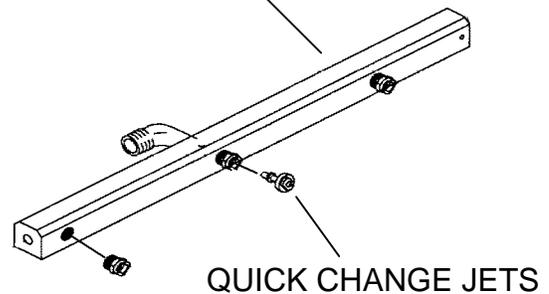
Empty the Recovery Tank directly into the floor drain via drain hose. After each use, rinse tank (including the float shut-off) with fresh water. Periodically inspect the recovery tank and decontaminate if necessary, using a Hospital Grade Virucide or a 1-10 bleach to water solution. This will dissipate the exposure to blood born or infectious contamination. Waste water should be disposed of properly. Clean the inside of the reconvert dome also.

Empty the Solution Tank by detaching the sight hose and empty directly into the floor drain. Flush the Solution System with 1 gallon of CLEAN water.

⚠ CAUTION: NEVER ALLOW RECOVERED SOLUTION TO REMAIN IN TANK WHEN NOT IN USE; NOR ALLOW UNUSED SOLUTION TO REMAIN IN THE SOLUTION TANK WHEN IN STORAGE. INSPECT AND CLEAN THE FILTER LOCATED UNDER THE MACHINE NEAR THE PUMP. REMOVE AND RINSE WITH HOT WATER.

To prevent clogged jets due to alkaline build-up, the spray system should be flushed with 1 gallon of clean hot water at the end of each work day. The **VOYAGER-E** is equipped with “quick change” jets that can be easily removed for cleaning. To remove – push jet in and rotate. Do not use pins or wire to remove obstruction as this will damage jet and alter spray pattern.

MANIFOLD ASSEMBLY



VAC SHOE TRACKING

To adjust vac shoe tracking, move eyebolts in or out to increase or decrease spring force, respectively, until desired tracking is reached.

VAC SHOE DOWNPRESSURE

NOTE: Downpressure is factory set and should not require adjustment.

If adjustment of downpressure is required, turn nut on top of vac shoe clockwise to increase downpressure and counterclockwise to decrease downpressure.

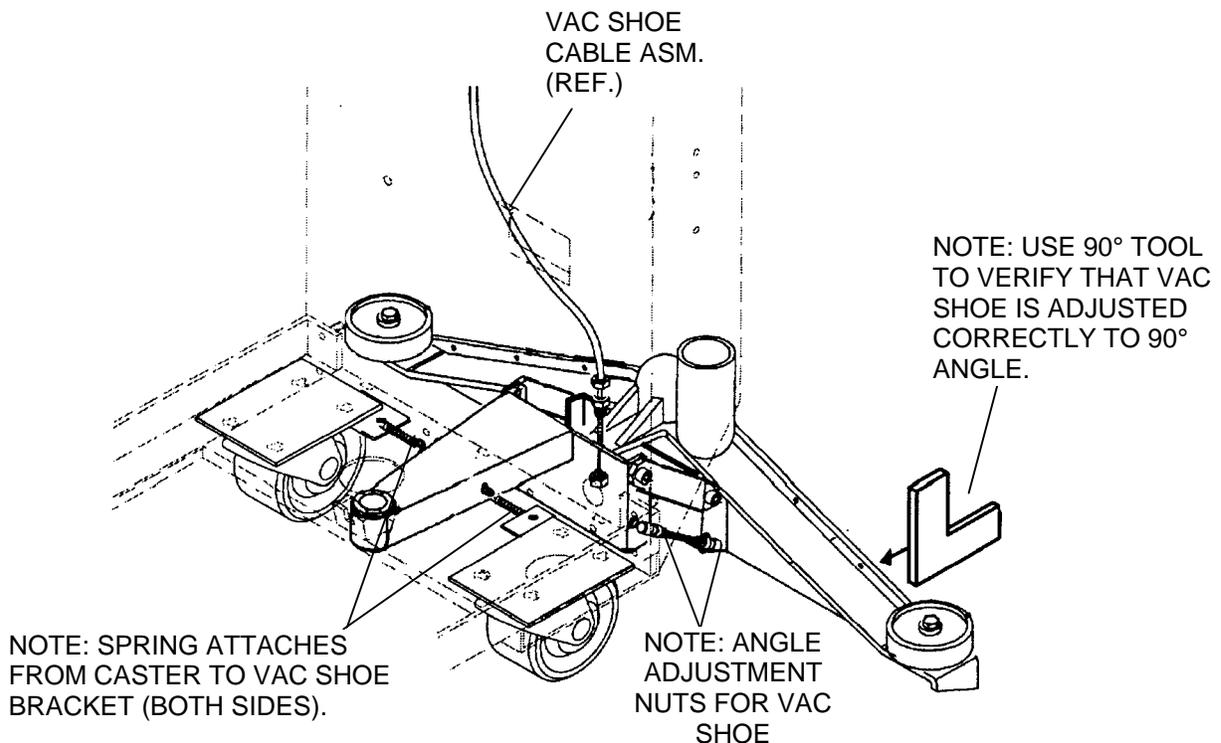
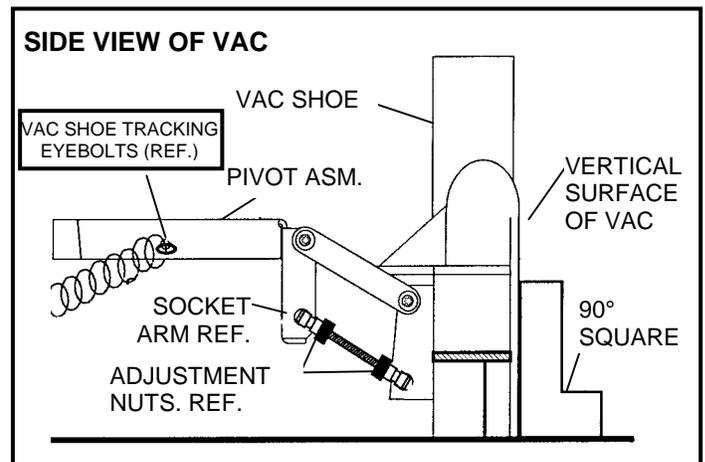


VAC SHOE ANGLE

NOTE: The angle of the vac shoe is factory set and should not require adjustment.

Periodically inspect the vac shoe angle by resting it on a hard flat surface. Use a square to verify 90° angle between the floor and vertical surface of the vac shoe.

If adjustment is required, remove one socket on each lower arm (from the vac shoe or bracket) and turn clockwise or counterclockwise to change the angle to the recommended 90°. Attach the socket on each arm to its respective location and recheck the angle using the square. Repeat if necessary.



MAINTENANCE

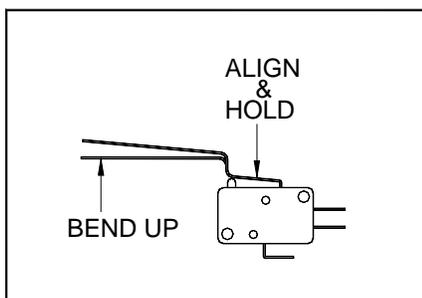
⚠ WARNING: Do not use a pressure washer to clean around the vacuum motors. Use tap pressure only. Care must be taken so that water is not directed into vacuum motor air intakes.

CHANGING VACUUM MOTOR

1. Tip the tank forward for access to the vacuum motor.
2. Disconnect electrical connector to the vacuum motor.
3. Loosen clamp and disconnect hose from vacuum intake.
4. Remove vacuum motor mounting bracket bolts, which are located on the frame.
5. Remove vacuum motor from mounting bracket assembly.
6. Reverse steps to install.

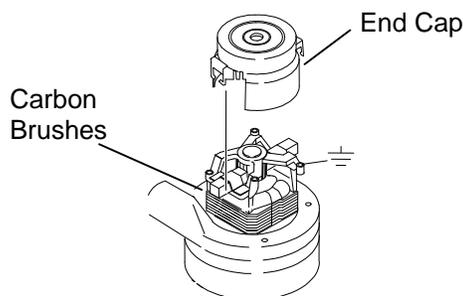
MICRO SWITCH REPLACEMENT

1. For brush and reverse switches, align the two switches and check to see that the actuator tabs are even to within 1/16 inch. If required, bend the lower tab up to match the higher tab.
2. Install the switches with the screws loose enough to allow the top screw to slide in the mounting slot.
3. With the lever in the top position, slide the switches back until they both click, tighten the switches in this position.

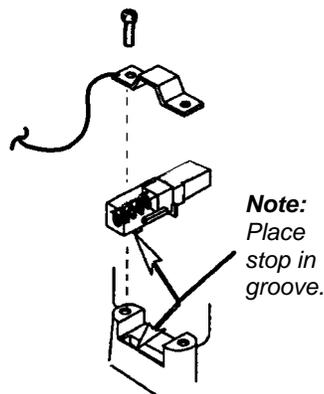


BRUSH & REVERSE SWITCH

Vacuum Motor Carbon Brushes Replacement (Ametek)

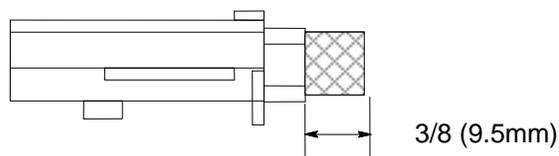


If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center.



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

TROUBLESHOOTING

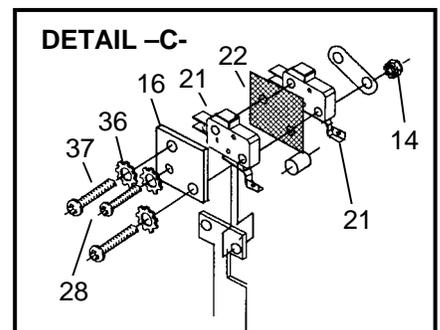
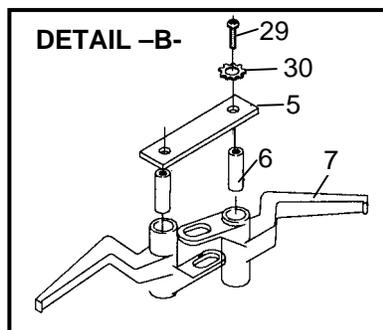
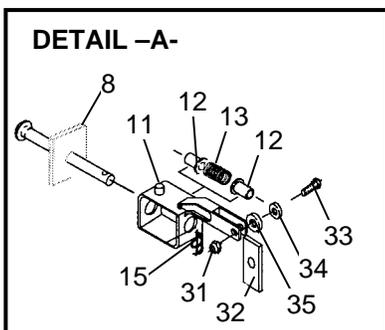
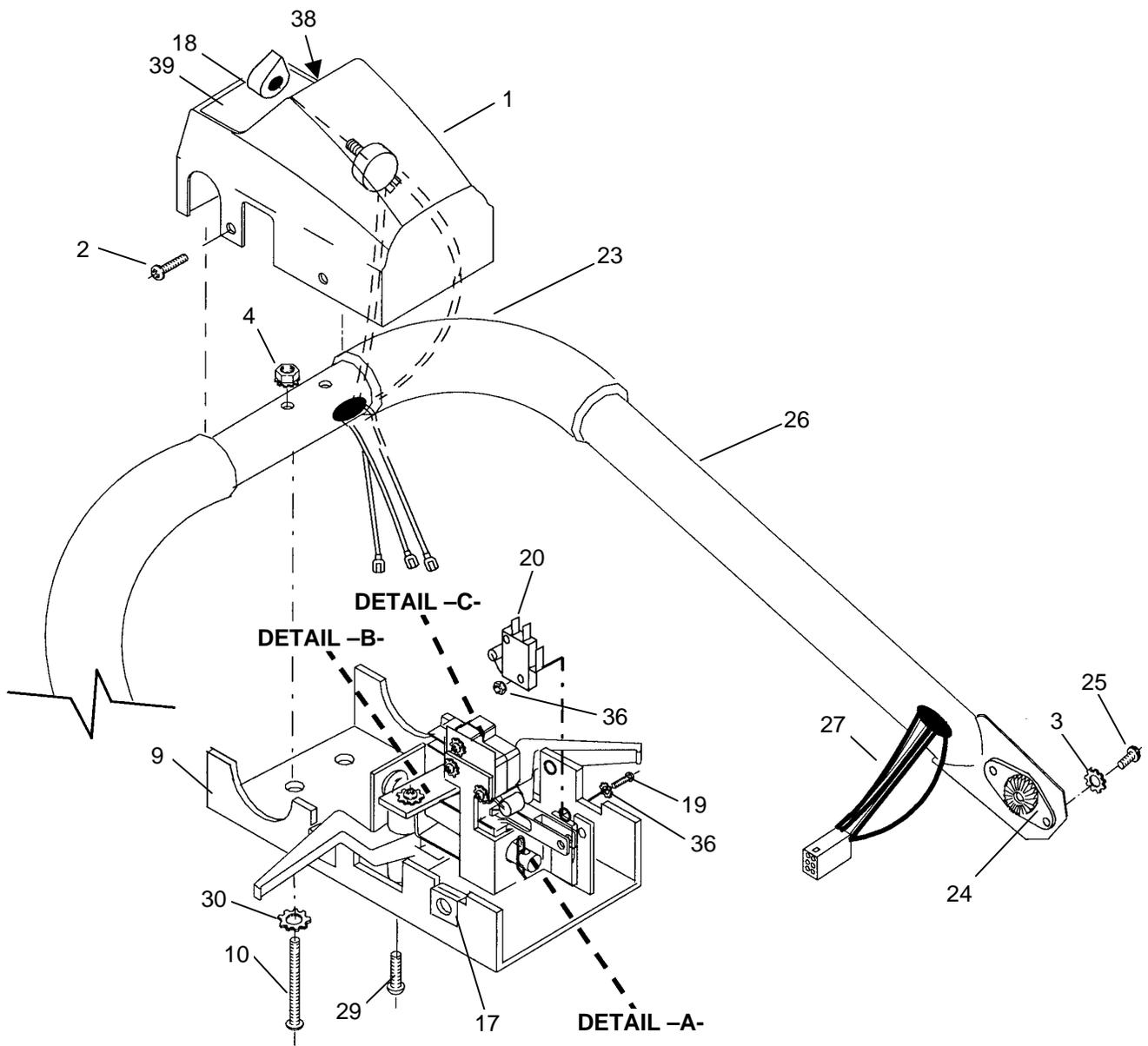
CONDITION		CORRECTIVE ACTION
No Power to Machine	Faulty power cord	Replace
	Power switch failure	Replace if necessary.
	Internal wiring problem	Have a trained service technician inspect and repair the machine.
Electrical Shock	Equipment not grounding	Follow grounding instructions exactly.
	Receptacle not grounded	Have an electrician inspect the building's wiring.
	Internal electrical problem	Have a trained service technician inspect and repair the machine.
Nuisance Tripping of Brush Circuit Breaker	Brush "buried" in carpet	Brush is adjusted to low, adjust position using Brush control lever. Best cleaning results are achieved with minimal brush/carpet contact.
	Faulty circuit breaker	Replace if necessary.
	Mechanical problem	Higher amp draws may indicate a mechanical problem. Find parts which are not moving freely and repair or replace.
Vacuum Motor Speed Varies or Doesn't Run	Worn motor brushes	Replace
	Faulty switch	Replace
	Faulty circuit breaker	Replace
	Internal wiring problem	Have a trained service technician inspect and repair the machine.
Loss of Vacuum	Loose dome	Center dome over tank.
	Crack in dome or poor joint	Replace or repair using acrylic plastic cement only.
	Damaged Dome Gasket	Replace
	Lint or dirt clogging vacuum intake screen	With power off, clean vac intake screen found in dome.
	Accessory tool clogged	Clean out tool, ensure free air flow.
	Internal electrical problem	Have a trained service technician inspect and repair the machine.
Machine does not propel	Belt tension handle on "Neutral"	Put belt tension handle in "Drive" position.

MAINTENANCE

SERVICE SCHEDULE

MAINTENANCE	DAILY	WEEKLY	QUARTERLY
Check machine for cord damage	*		
Check recovery dome and gasket for damage and cleanliness	*		
Check brush – should be clean with no lint or strings attached	*		
Inspect vac shoe for blockage; remove fibers with coat hanger, etc.	*		
Check hoses for wear, blockages, or damage	*		
Check handles, switches, and knobs for damage	*		
Check vac motor intake filter and clean	*		
Run one gallon of water through system	*		
Clean out recovery tank and check float valve to make sure it moves freely	*		
Clean out solution tank and remove and clean vacuum intake screen	*		
Clean outside of all tanks and check for damage	*		
Run vac motor for at least one minute to allow motor to dry	*		
Store with dome off tank to allow the tank to dry	*		
Check all bearings for noise		*	
Check all gaskets for wear and leakage		*	
Check vacuum intake screen for damage; replace if necessary		*	
Check pump pressure; observe spray pattern and check with gauge if necessary		*	
Check and clean solution screen		*	
Check belts for wear and replace as necessary		*	
Check brush for wear; ensure bristles are not damaged		*	
Check cables for fraying		*	
Check the spray bar (manifold) for damage; replace if broken or bent		*	
Check condition of vac shoe and frame for damage		*	
Check overall performance of machine		*	
Check vac motor carbon brushes			*

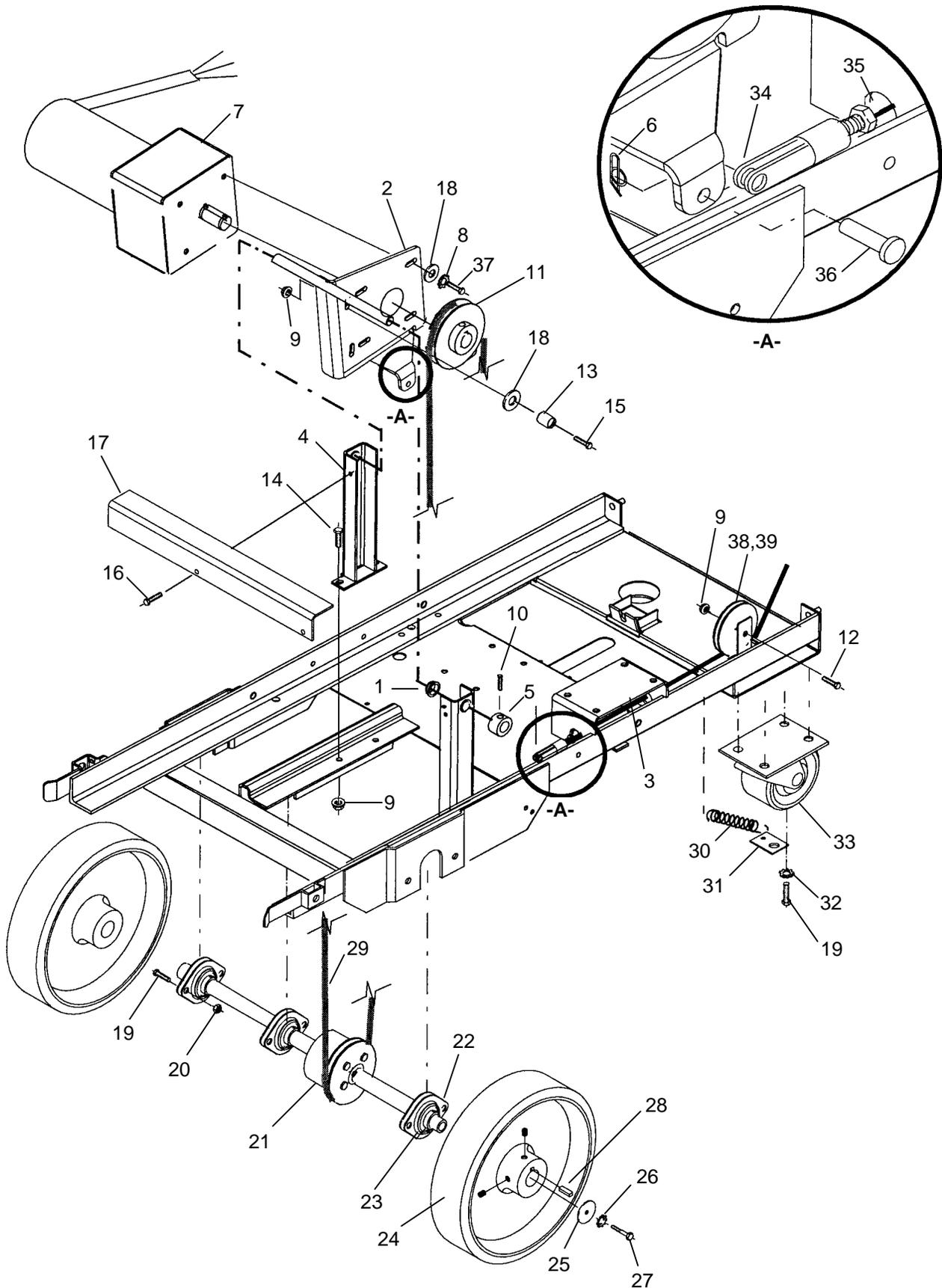
HANDLE ASSEMBLY



HANDLE ASSEMBLY

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86063590	27568	1	COVER, PROPEL HANDLE		
2	86006870	70406	4	SCREW, 10B X 3/8 PHSM BLK		
3	86010650	87018	4	WASHER, #10 X 9/16 OD		
4	86271680	57236	2	NUT, 10-32 HEX NYLOCK BLK		
5	86088340	71116	1	SUPPORT, LEVER PIVOT		
6	86264360	67271	2	ROD, HANDLE LEVER PIVOT		
7	86246330	51186	2	LEVER, PROPEL CTRL HANDLE		
8	86272330	66184	1	PIN, CLEVIS 1/4 X 2.438		
9	86093740	62705	1	PLATE ASM, PROP. CTRL		
10	86274470	70209	2	SCREW, 10-32 X 1.75 PHMS		
11	86238620	36136	1	GUIDE, LEVER CENTERING		
12	86264030	14866	2	BUSHING, PROPEL CONTROL		
13	86059560	73236	1	SPRING, COMP .36D X 1.12L X .04W		
14	86005760	57116	2	NUT, 6-32 HEX W'LOCK WSHR		
15	86008650	80604	1	COTTER, 1/4" RING		
16	86080990	62663	1	PLATE, DUAL SWITCH		
17	86270860	57028	4	NUT, 10-24 U-TYPE SPEED		
18	86242020	48043	1	KNOB, SPEED CONTROL		
19	86006720	70245	2	SCREW, 4-40 X 3/4 PPHMS		
20	86007160	72157	1	SWITCH, 10A ROLLER MINI		
21	86257010	72158	2	SWITCH, 10A PLUNGER MINI		
22	86227000	05126	1	ACTUATOR, TANDEM SWITCH		
23	86238300	36123	2	GRIP, CLP HANDLE X 9.5"		
24	86005020	51184	2	LOCK, HANDLE ADJUSTMENT		
25	86006680	70228	4	SCREW, 10-32 X 1/4 PHMS		
26	86076420	38183	1	HANDLE, VGRE MAIN		
27	86261510	880185	1	WIRE ASM, VGRE HANDLE		
28	86275500	70493	1	SCREW, 4-40 X 1/4 TYPE F		
29	86006590	70088	4	SCREW, 10-32 X 1/2 PPHMS		
30	86010640	87016	4	WASHER, #10 LOCK EXT STAR		
31	86005680	57047	1	NUT, 1/4-20 NYLOCK PLTD		
32	86081200	62704	1	PLATE, LEVER GUIDE		
33	86273780	70015	1	SCREW, 1/4-20 X 3/4 HHCS SS NP		
34	86010630	87013	1	WASHER, 1/4 ID X 5/8 OD SS		
35	86087630	73876	1	SPACER, .50OD X .31 ID X .188L		
36	86279020	87026	5	WASHER, #6 EXT TOOTH LCK		
37	86275250	70401	2	SCREW, 4-40 X 1.25 PHMS		
38	86243640	500582	1	LABEL, SPEED TACHOMETER		
39	86243650	500583	1	LABEL, VGR SPEED CONTROL		

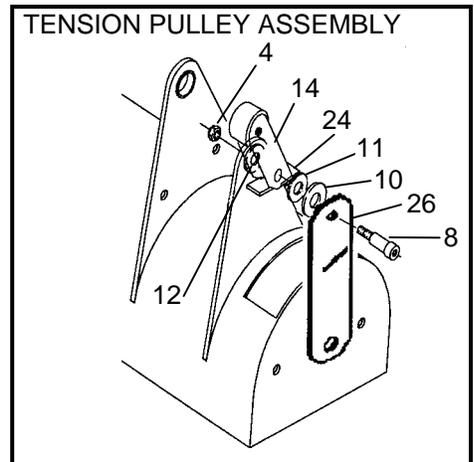
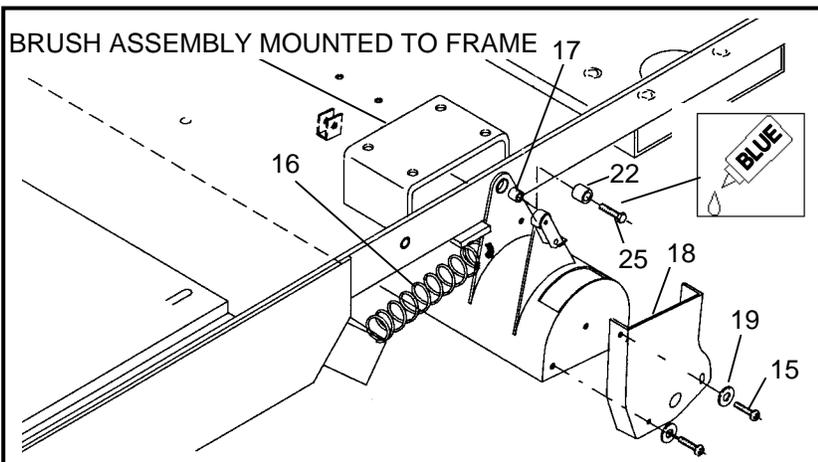
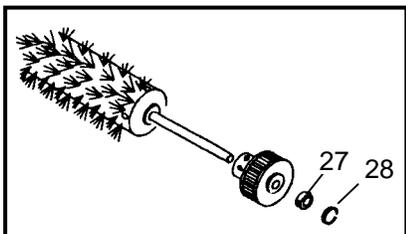
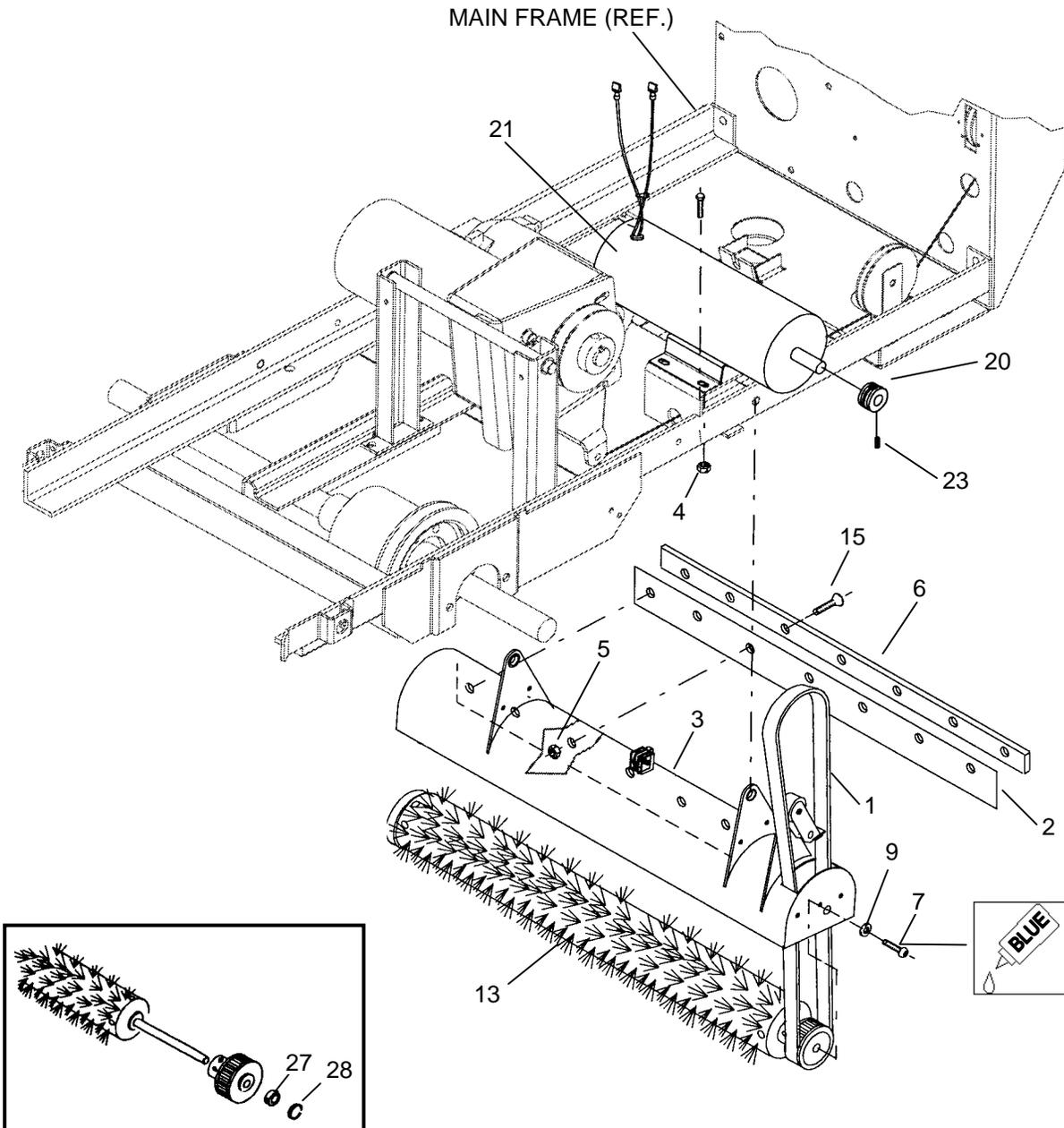
DRIVE ASSEMBLY



DRIVE ASSEMBLY

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86228580	09025	2	BEARING, 12 ID NYLINER		
2	86091690	140234	1	BRACKET ASM, MOTOR PIVOT		
3	-	REF	-	CABLE ASM, 86231780 (#27762)		
4	86068940	140240	2	BRACKET, SUPPORT MTR. PIVOT		
5	86233620	27279	2	COLLAR, .88 X .503 X .50 TAP'D CRS		
6	86008650	80604	1	COTTER, 1/4" RING		
7	86026110	53628	1	MOTOR ASM, TRACTION VGRE		
8	86010660	87025	4	WASHER, 1/4 EXT. STAR		
9	86005680	57047	9	NUT, 1/4-20 NYLOCK PLTD.		
10	86277940	70126	2	SET SCREW, 1/4-28 X 1/4 KCP		
11	86250650	64093	1	PULLEY, 3.5 OD V-BELT		
12	86273810	70018	1	SCREW, 1/4-20 X 1.0 HHCS		
13	86087620	73874	2	SPACER, .500 X .281 ID X 1.38 LG		
14	86273780	70015	4	SCREW, 1/4-20 X 3/4 HHCS		
15	86273850	70022	2	SCREW, 1/4-20 X 2" HHCS		
16	86006590	70088	2	SCREW, 10-32 X 1/2 PPHMS		
17	86068990	140259	1	BRACKET, SUPPORT VGRE		
18	86010630	87013	6	WASHER, 1/4 ID X 5/8 OD SS		
19	86006760	70305	14	SCREW, 5/16-18 X 3/4 HHCS PLTD		
20	86279230	57113	6	NUT, 5/16-18 NYLOCK PLTD		
21	86235190	29201	1	DIFFERENTIAL, VGRE		
22	86236300	81003	3	FLANGETTE, 1" BEARING (PAIR)		
23	86229210	81002	3	BEARING, 1" BORE		
24	86259750	89078	2	WHEEL, 10" X 2-1/2" GRAY		
25	86278940	87008	2	WASHER, 1/4 ID X 1-1/4" OD PLTD		
26	86010660	87025	2	WASHER, 1/4 LOCK EXT. STAR SS		
27	86273750	70011	2	SCREW, 1/4-20 X 5/8 HHCS SS		
28	86270480	48052	2	KEY, 1/4 X 1/4 X 2-1/2"		
29	86229410	11042	1	BELT, VGRE		
30	86007690	73240	2	SPRING, 1/2 X 2.25I EXT.		
31	86080370	62394	2	PLATE, SPRING HOOK		
32	86279090	87067	2	WASHER, 5/16 LOCK INT STAR SS		
33	86199430	040-03	2	CASTER SWIVEL 4" 250# CPCTY		
34	86270260	80603	1	CLEVIS, 1/4" YOKE END 1/4-28		
35	86270870	57029	1	NUT, 1/4-28 HEX SS		
36	86272280	66116	1	PIN, CLEVIS 1/4" X 3/4" PLTD		
37	86276260	70617	4	SCREW, 1/4-28 X 1 HHCS		
38	86089330	78359	1	TUBE, 13/32 X .049W X 1.56I CRS		
39	86250630	64090	1	PULLEY, 2.88 X 2.25 X .40 CABLE		

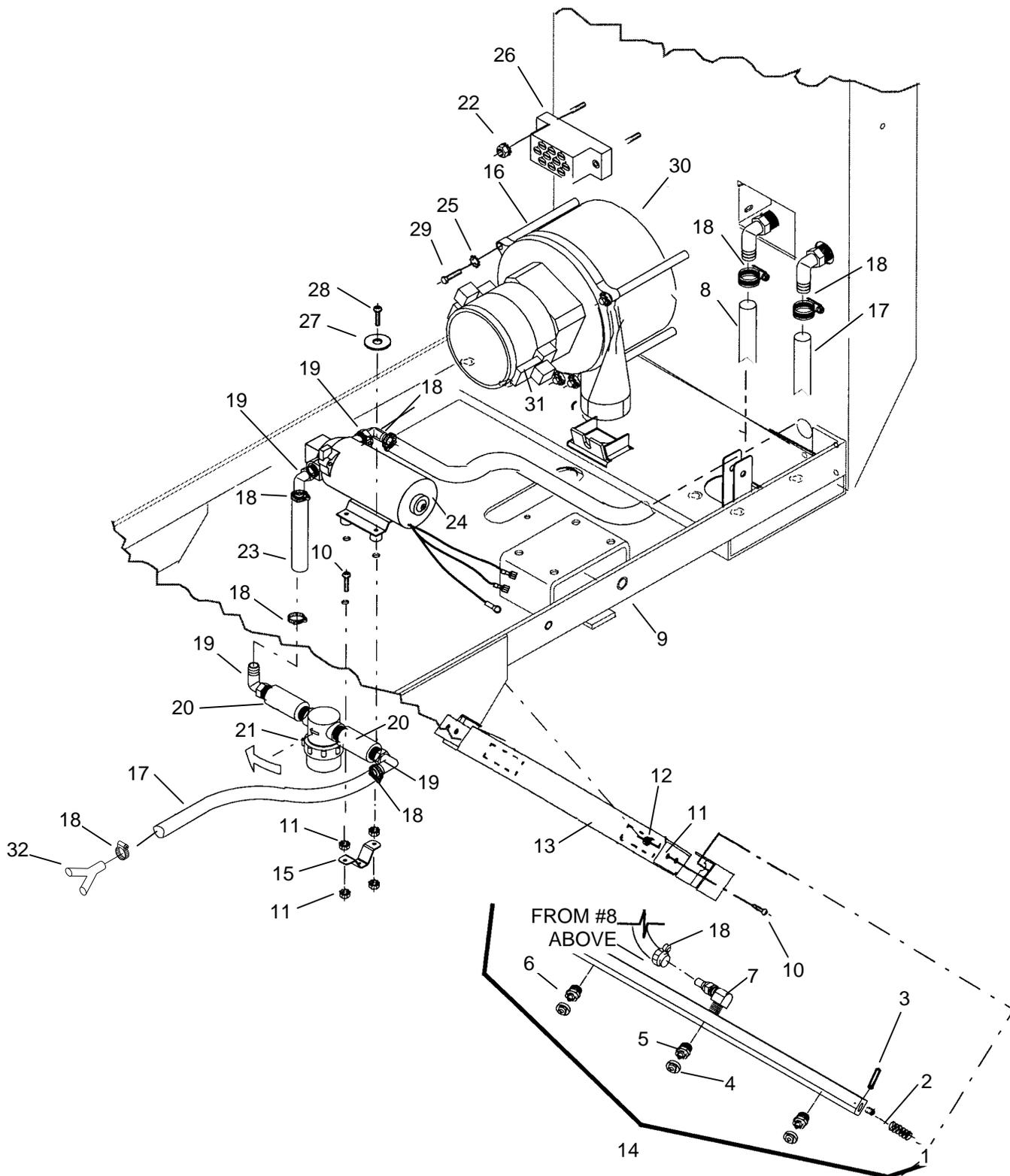
BRUSH ASSEMBLY



BRUSH ASSEMBLY

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86229350	11027	1	BELT, BRUSH DRIVE BELT		
2	86238560	36175	1	GUARD, VOYAGER SPLASH		
3	86092870	41288	1	HOUSING BRUSH		
4	86005680	57047	5	NUT, 1/4-20 NYLOCK PLTD		
5	86005700	57104	7	NUT, 10-32 W/STAR WASHER PLTD		
6	86086120	67106	1	RETAINER, SPLASH GUARD		
7	86273750	70011	6	SCREW, 1/4-20 X 5/8 HHCS		
8	86278190	70267	1	SHOULDER BOLT, 5/16 OD X 1.25		
9	86010660	87025	2	WASHER, 1/4 LOCK EXT STAR		
10	86010670	87029	1	WASHER, 5/16 FLAR SAE		
11	86010680	87030	1	WASHER, 3/8 ID X 3/4 OD NYLON		
12	86010700	87074	1	WASHER, WAVE 3/8 ID X 3/4 D X .125		
13	86027630	12508	1	BRUSH ASM, VGRE		
14	86026230	64101	1	PULLEY ASM		
15	86006590	70088	9	SCREW, 10-32 X 1/2 PPHMS SS		
16	86255140	73578	2	SPRING, EXT .75D X 4.00L X .085W		
17	86228580	09025	2	BEARING, 1/2 ID NYLINER		
18	86063670	27673	1	COVER, VOYAGER BELT GUARD		
19	86010650	87018	2	WASHER, #10 X 9/16 OD		
20	86250420	64022	1	PULLEY, POLY-V BELT MOTOR		
21	86026120	53629	1	MOTOR ASM, BRUSH VGRE		
22	86087580	73606	2	SPACER, 1/2OD X .088D X .058W X .26LG CRS		
23	86006550	70074	2	SET SCREW, 10-32 X 1/4 KCP		
24	86226840	73307	1	SPRING, COMP .88D X 1.46 X 1.00W		
25	86274140	70104	2	SCREW, 3/8-16 X 3/4 BHMS		
26	86081690	62820	1	PLATE, VGR PULLEY		
27	86000900	09019	2	BEARING, 1.125ODX.500IDX.375		
28	86272760	67093	1	RING, 1.12 INT SNAP		

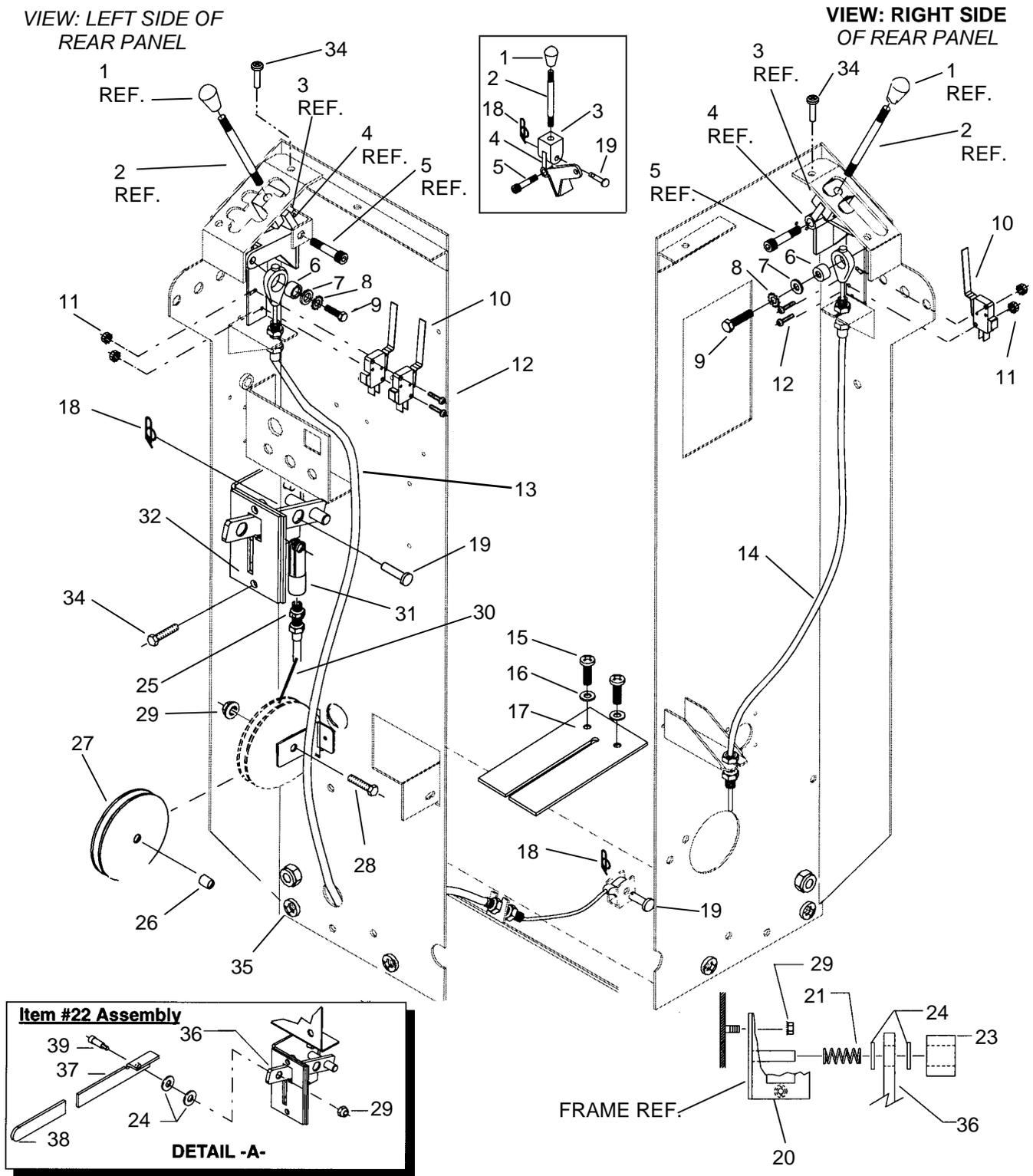
PUMP, MANIFOLD AND VAC ASSEMBLIES



PUMP, MANIFOLD AND VAC ASSEMBLIES

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86007780	73576	1	SPRING, COMP .60D X 2.0L X .045W		
2	86006180	66095	2	PLUG, 1/8 MPT HEX BRASS		
3	86272160	66052	1	PIN, 1/8 X 1" ROLL		
4	86004540	44060	3	JET, 8002 MINIQL REPLACEMENT		
5	86004530	44052	3	JETBODY, MINI-QUICK W/SEAL		
6	86077690	54138	1	MANIFOLD, VGR 3-JET		
7	86197600	40033	1	HOSEBARB, 1/4 MPT X 3/8 90D		
8	86280940	39204	1	HOSE, 3/8 NYLOBRAID X 29"		
9	86092410	34324	1	FRAME, MAIN VGRE		
10	86273980	70066	5	SCREW, 10-32 X 3/4 PPHMS		
11	86005700	57104	8	NUT, 10-32 W/STAR WASHER		
12	86021600	99873	2	TAPE, 5/8 X 1/4 X 3" PORON		
13	86073300	14902	1	BRACKET, VGR MANIFOLD		
14	86028160	54162	1	MANIFOLD ASM, VGR		
15	86072720	14454	1	BRACKET, VALVE		
16	86007770	73566	3	SPACER, 1/2 OD X 3.0 W/1/4-20 AL		
17	86281760	39499	1	HOSE, 3/8" ID NYLOBRD X 13"		
18	86233150	20042	8	CLAMP, 3/8 HOSE (D-SLOT)		
19	86197610	40034	4	HOSEBARB, 3/8 MPT X 3/8 90D		
20	86197810	22003	2	COUPLER, 3/8 X 3/8 FPT PVC		
21	86256250	73573	1	STRAINER, 3/8 NPT 80 MESH		
22	86005760	57116	2	NUT, 6-32 W/STAR WASHER PLTD		
23	86281680	39486	1	HOSE, 3/8 NYLOBRAID X 2"		
24	86026350	65169	1	PUMP ASM, VGRE		
25	86010660	87025	3	WASHER, 1/4 LOCK EXT STAR SS		
26	86001240	14020	1	TERMINAL, BLOCK 115V		
27	86010650	87018	4	WASHER, #10 X 9/16 OD		
28	86274640	70253	4	SCREW, 10-32 X 1.25 PHMS		
29	86273750	70011	3	SCREW, 1/4-10 X 5/8 HHCS SS		
30	86026960	53785	1	VAC MOTOR ASM, 115V VGRE		
31	86135340	14258	1	BRUSH SET, 120V 5.7 VAC AMETEK		
32	86161630	12-800398	1	HOSEBARB "Y" 3/8 ALL NYLON		

REAR TOWER MECHANICAL ASSEMBLIES



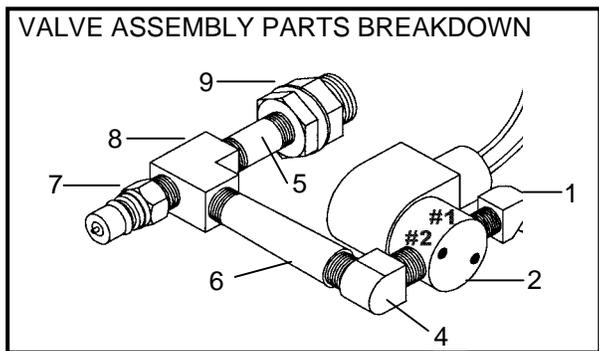
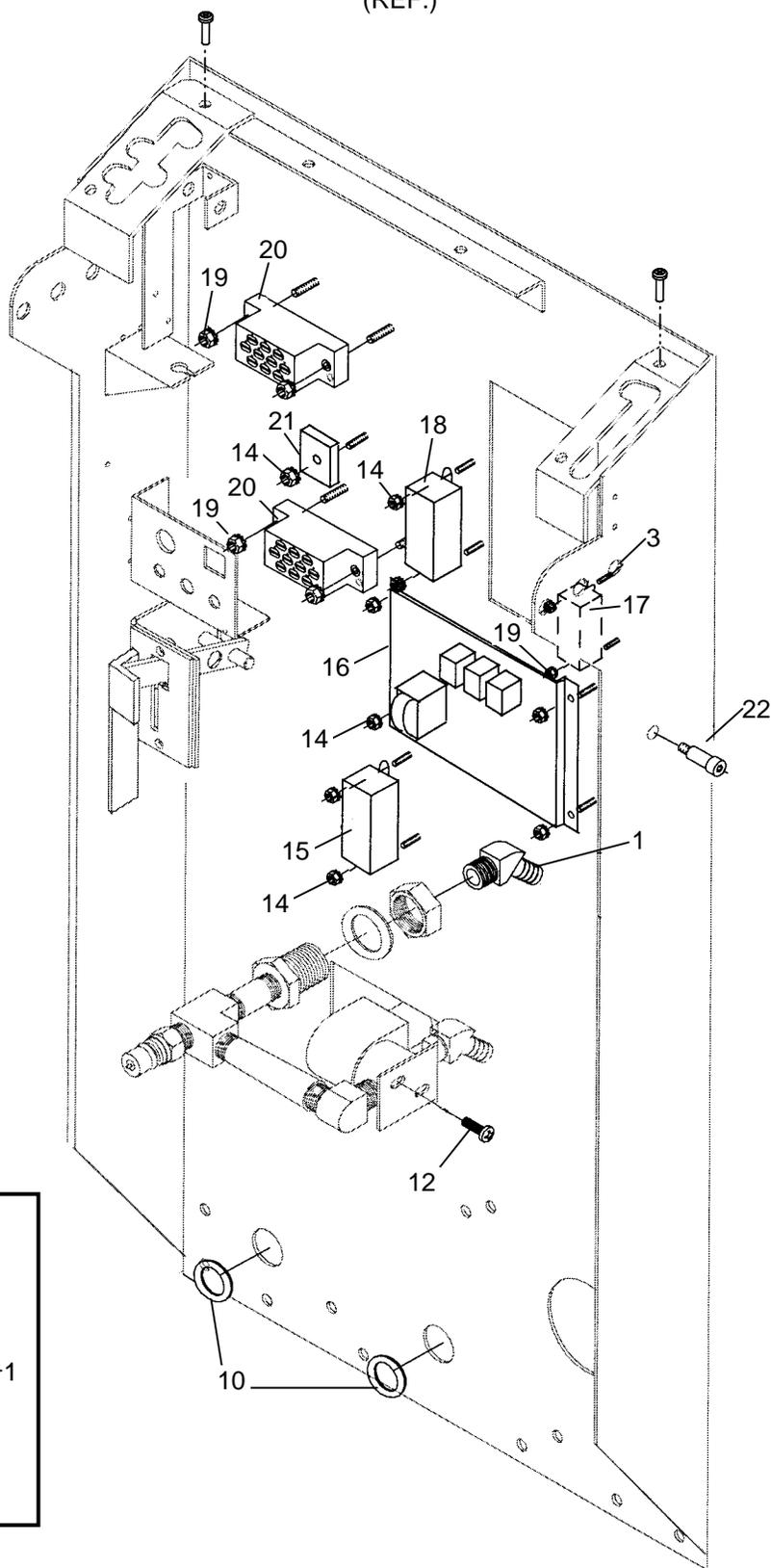
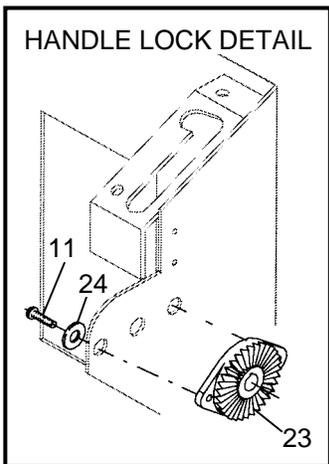
NOTE: See page 4-3 for micro switch replacement.

REAR TOWER MECHANICAL ASSEMBLIES

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86004800	48030	2	KNOB, PT 17/20 BLACK		
2	86264100	38186	2	HANDLE, BRUSH/VAC CONTROL		
3	86264060	27559	2	CLEVIS, 3/8-16 UNC ROD END		
4	86092940	51170	2	LEVER ASM, HANDLE PIVOT		
5	86278150	70117	2	SHOULDER BOLT, 5/16 OD X 1.0 L		
6	86087450	73220	2	SPACER, EPB CABLE/CASE HARD		
7	86010630	87013	2	WASHER, 1/4ID X 5/8 OD SS		
8	86010660	87025	2	WASHER, 1/4 LOCK EXT STAR SS		
9	86273750	70011	2	SCREW, 1/4-20 X 5/8 HHCS SS		
10	86028630	72082	3	SWITCH, SOL LEVER BENT		
11	86271280	57163	4	NUT, 4-40 W/STAR WASHER		
12	86275250	70401	4	SCREW, 4-40 X 1.25 PHMS		
13	86002880	27486	1	CABLE, BRUSH LIFT		
14	86231670	27488	1	CABLE, VAC SHOE LIFT		
15	86274350	70187	2	SCREW, 10-24 X 1/2 PHTC -F-		
16	86010650	87018	2	WASHER, #10 X 9/16 OD		
17	86238580	36179	1	GUARD, SPLASH		
18	86008650	80604	3	COTTER, 1/4" RING		
19	86272280	66116	3	PIN, CLEVIS 1/4" X 3/4" PLTD		
20	86091680	140232	1	BRACKET ASM, IDLER HANDLE PIVOT		
21	86226770	73043	1	SPRING, COMP .75 D X 1.5 L X .062 W		
22	86076540	38280	1	HANDLE ASM, BELT TENSION		
23	86002810	27063	1	COLLAR, 3/8 SHAFT		
24	86010680	87030	2	WASHER, .390 I X 3/4 TEFLON		
25	86270870	57029	2	NUT, 1/4-20 HEX W/STAR WASHER		
26	86089330	78359	1	TUBE, 13/32 X .049 W X 1.56 L CRS		
27	86250630	64090	1	PULLEY, 2.88 X 2.25 X .40 CABLE		
28	86273810	70018	1	SCREW, 1/4-00 X 1.5 HHCS		
29	86005680	57047	4	NUT, 1/4-20 NYLOCK PLTD		
30	86231780	27762	1	CABLE, .09 D X 33 SS TENSION		
31	86270260	80603	1	CLEVIS, 1/4" YOKE END 1/4-28		
32	86081030	62668	1	PLATE, HANDLE GUIDE		
33	OPEN	-	-	-		
34	86006590	70088	6	SCREW, 10-32 X 1/2 PPHMS		
35	86274940	70329	4	SCREW, 1/4-20 X 3/4		
36	86076540	38280	1	HANDLE, BELT TENSION VGRE		
37	86069100	140286	1	BRKT, LIFT LEVER HANDLE		
38	86238310	36133	1	GRIP, 3/16" X 1.0" FLAT BAR		
39	86278250	70296	1	SHOULDER BOLT, 5/16 OD X 1/2 L		

REAR TOWER VALVE, ELECTRICAL ASSEMBLIES

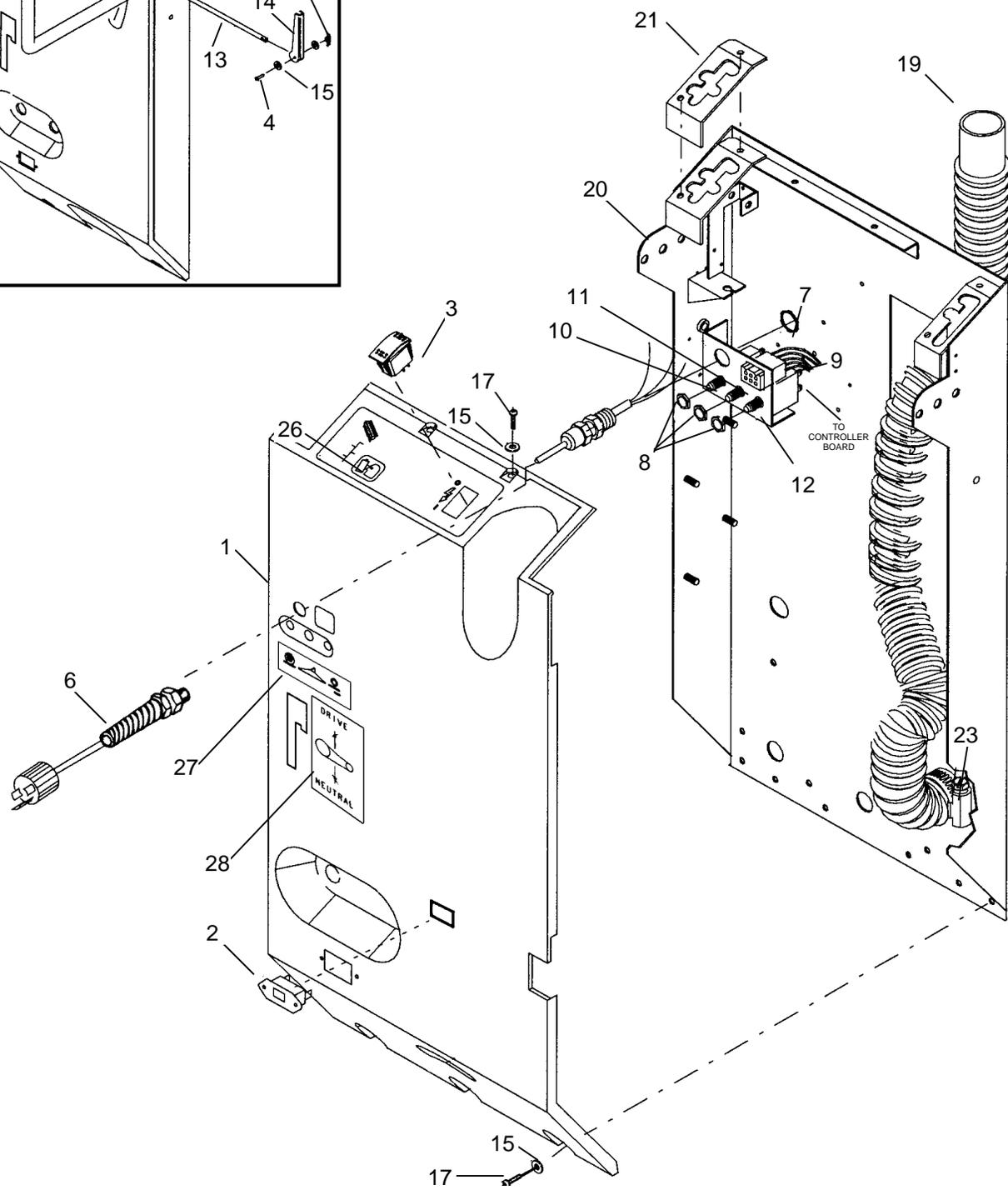
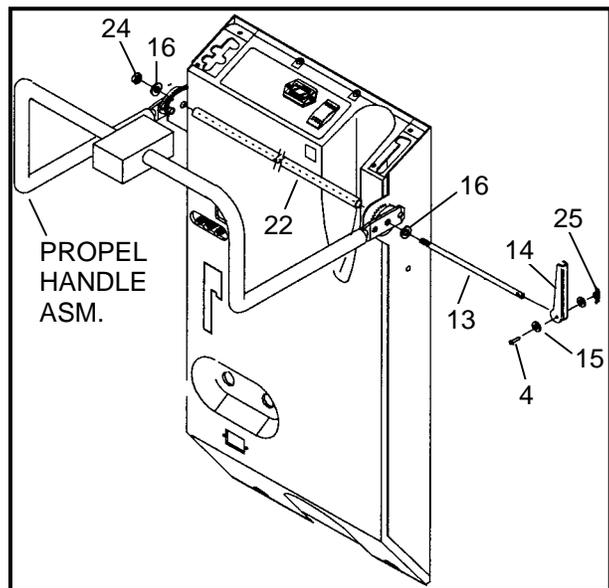
REAR TOWER
(REF.)



REAR TOWER MECHANICAL ASSEMBLIES

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86197620	40038	2	HOSEBARB, 1/4 MPT X 3/8 H 45 DEG.		
2	86258870	84168	1	VALVE ASM, 115V 2-WAY SOLENOID		
3	86273950	70056	2	SCREW, 6-32 X 1/2 RHMS SS		
4	86197360	31016	1	ELBOW, 1/4 NPT		
5	86197700	56048	1	NIPPLE, 1/4 X 1.75		
6	86197710	56051	1	NIPPLE, 1/4 X 3.25		
7	86005580	56012	1	NIPPLE, 1/4 FPT QD		
8	86197760	78308	1	TEE, 1/4 STREET		
9	86002470	22072	1	COUPLING, 1/4 ANCHOR		
10	86226540	36020	2	GROMMET, 5/8 ID X 1.12 OD		
11	86006680	70228	4	SCREW, 10-32 X 1/4 PHMS SS		
12	86006790	70351	2	SCREW, 10-32 X 3/8 HHTR W/ STAR		
13	OPEN	-	-	-		
14	86005720	57106	11	NUT, 8-32 W/STAR WASHER		
15	86251380	67389	1	RELAY, 120 VAC 10A DPDT		
16	86234030	27767	1	CONTROLLER, 90 VDC PROPEL		
17	86261350	78373	1	TRANSFORMER ASM, 115V/24V		
18	86251370	67382	1	RELAY, DPST-NO 30A 120V/277V		
19	86005760	57116	6	NUT, 6-32 W/STAR WASHER		
20	86001240	14020	2	TERMINAL BLOCK, 115V (3-4-3)		
21	86006350	67029	1	RECTIFER, 115V		
22	86278300	70488	3	SHOULDER BOLT, 5/16 OD X 3/4 L		
23	86005020	51184	2	LOCK, HANDLE ADJ.		
24	86010650	87018	4	WASHER, #10 X 9/16 OD		

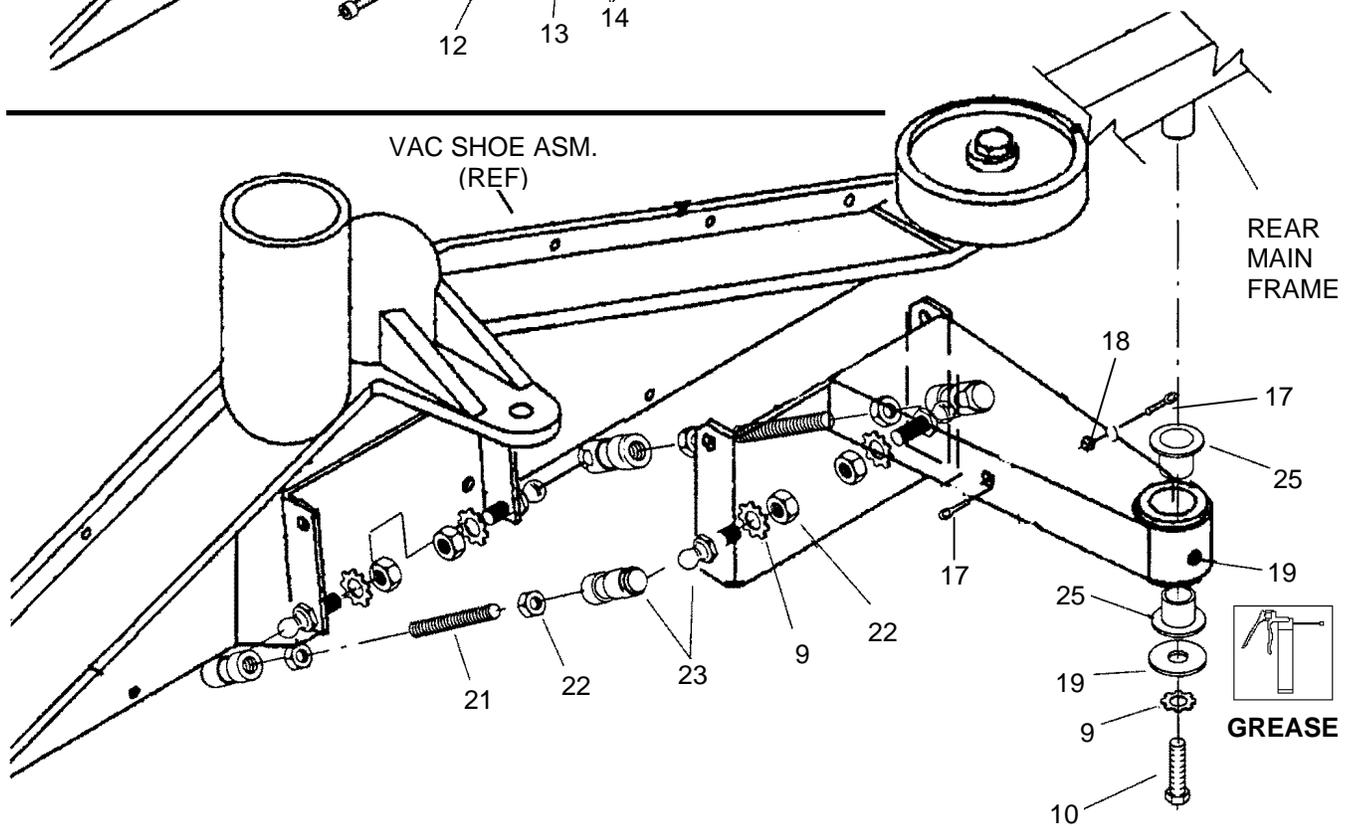
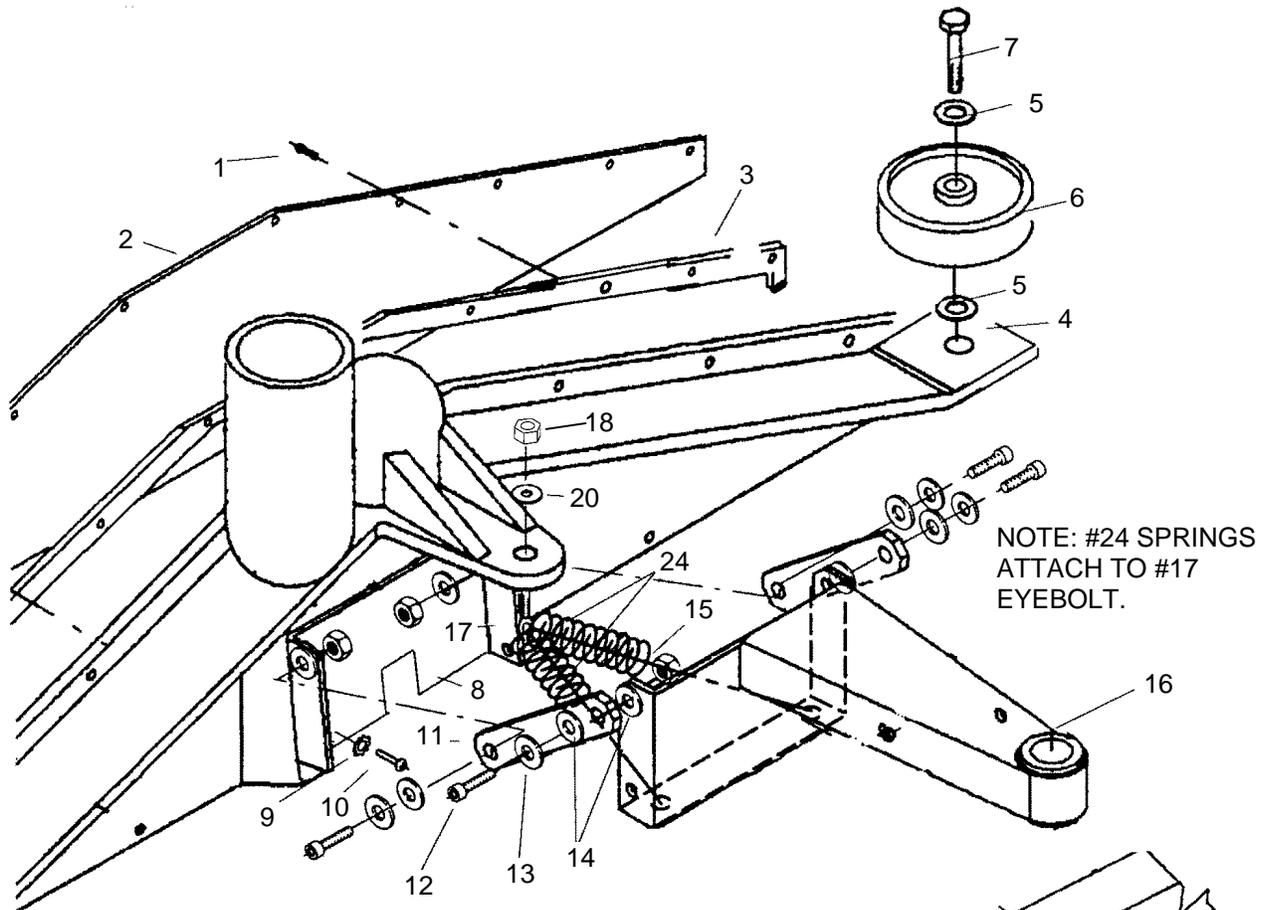
REAR TOWER VALVE, ELECTRICAL ASSEMBLIES



REAR TOWER VALVE, ELECTRICAL ASSEMBLIES

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86062030	27761	1	COVER, REAR VOYAGER 2 TRIMMED		
2	86246950	54164	1	METER, 120 VAC HOUR NON-RESET		
3	86007140	72130	1	SWITCH, SPST 2-POSITION ROCKER		
4	86272300	66133	1	PIN, CLEVIS 3/16" X 7/8"L		
5	OPEN	-	-	-		
6	86234120	23100	1	CORD ASM, 12/3 PIGTAIL X 22" YLW		
7	86005670	57040	1	NUT, 1/2 NPT CONDUIT		
8	86271150	57132	3	NUT, 3/8-27 DRESS PANEL		
9	86261520	880186	1	WIREASM. VGRE PROPEL BOARD		
10	86002000	14717	1	BREAKER, 3A CIRCUIT		
11	86230040	140207	1	BREAKER, 13A CIRCUIT		
12	86002020	14949	1	BREAKER, 4A VDE CIRCUIT		
13	86264370	67273	1	ROD, VOY HANDLE ADJ.		
14	86246320	51142	1	LEVER, HANDLE LOCK		
15	86010650	87018	6	WASHER, #10 X 9/16 OD		
16	86010720	87086	2	WASHER, M10 X 30 PLTD		
17	86273980	70066	4	SCREW, 10-32 X 3/4 PPHMS		
18	OPEN	-	-	-		
19	86240060	39501	1	HOSE, VAC 2" X 43"		
20	86092400	34308	1	FRAME, REAR W/O PLENUM		
21	86025530	47200	1	KIT, VOYAGER ADJUSTMENT PLATE		
22	86089220	78271	1	TUBE, VGR HANDLE ADJ.		
23	86002380	20046	1	CLAMP, 2.25" WORM GEAR		
24	86270880	57032	1	NUT, 3/8-16 SERRATED FLG. PLT.		
25	86008650	80604	1	COTTER, 1/4" RING		
26	86243450	500549	1	LABEL, CONTROL PANEL		
27	86243430	500547	1	LABEL, CIRCUIT BREAKER		
28	86243460	500550	1	LABEL, REAR COVER		

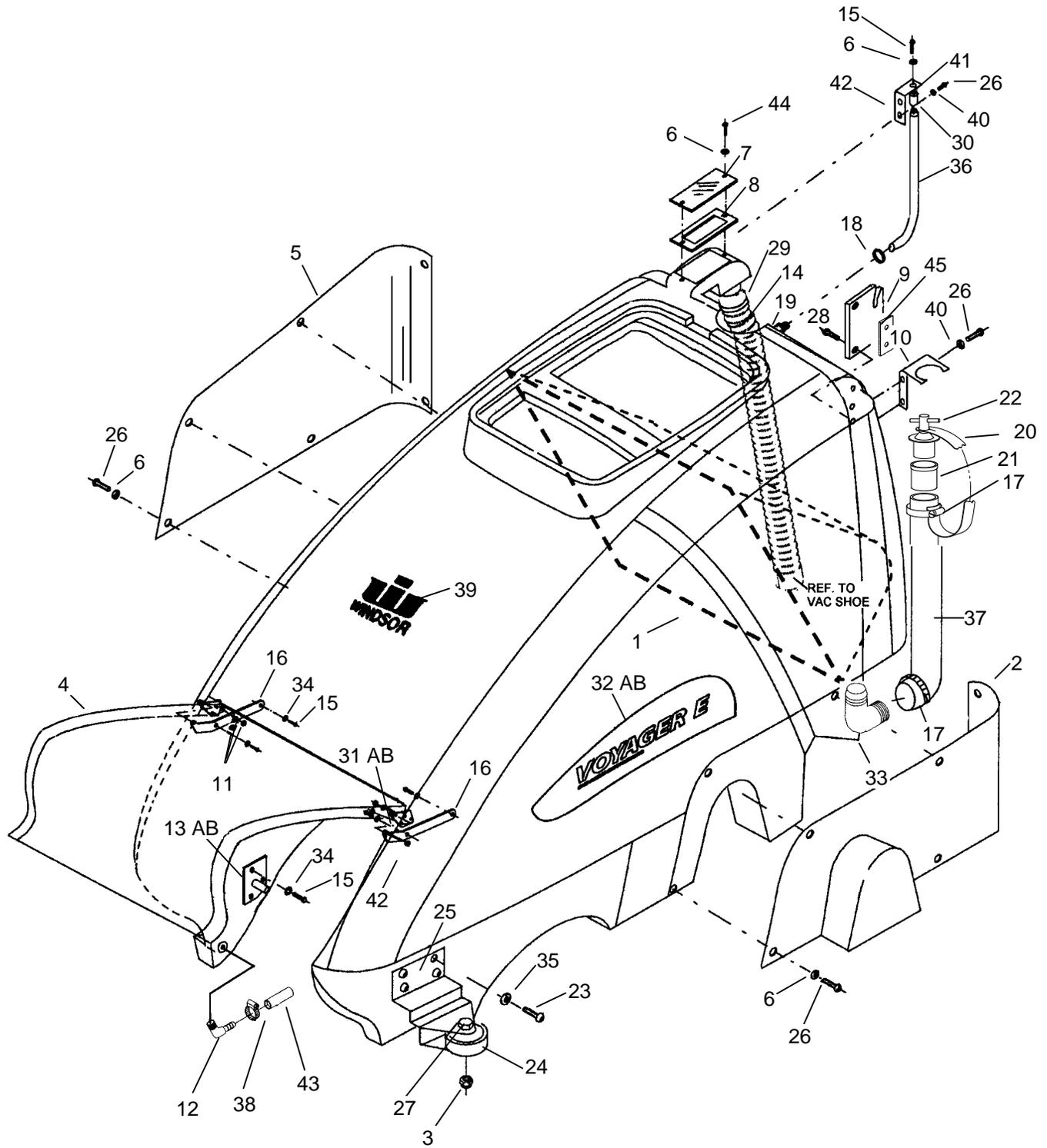
VAC SHOE ASSEMBLY



VAC SHOE ASSEMBLY

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86006790	70351	13	SCREW, 10-32 X 3/8 HHTR W/STAR		
2	86080350	62391	1	PLATE, VAC SHOE COVER		
3	86237350	35124	1	GASKET, VGR VAC SHOE PLATE		
4	86258610	85031	1	VAC SHOE, VGRE 28"		
5	86278910	87003	4	WASHER, 3/8 ID X 7/8 OD SS		
6	86010890	89059	2	WHEEL, PT20 SQUEEGEE BUMPER		
7	86275150	70368	2	SCREW, 3/8-16 X 1-3/4 HHCS		
8	86068770	140197	1	BRACKET, VAC SHOE LINKAGE PLTD		
9	86010660	87025	9	WASHER, 1/4 LOCK EXT STAR		
10	86273750	70011	1	SCREW, 1/4-20 X 5/8 HHCS PLTD		
11	86065860	05070	2	ARM ASM, SQUEEGEE		
12	86278260	70298	4	SHOULDER BOLT, 5/16 X 3/8 L		
13	86010670	87029	4	WASHER, 5/16 FLAT SAE		
14	86010680	87030	8	WASHER, 3/8 ID X 3/4 OD NYL.		
15	86005680	57047	4	NUT, 1/4-20 NYLOCK		
16	86091660	140192	1	BRACKET ASM, VAC SHOE PIVOT		
17	86270300	70263	3	EYEBOLT, 8-32 X 1; 1/4 EYE PLT		
18	86270850	57026	3	NUT, 8-32 NYLOCK		
19	86278940	87008	1	WASHER, 1/4 ID X 1-1/4 OD PLTD		
20	86010650	87018	1	WASHER, #10 X 9/16 OD		
21	86056410	54-501623	2	RD, 1/4-28 X 2-1/2 SST		
22	86270870	57029	9	NUT, 1/4-28 HEX SS		
23	86226340	14029	4	BALLJOINT ASM, 1/4-28 HD		
24	86255060	73426	2	SPRING, EXT. .43D X 2.50L X .047W		
25	86231380	14820	2	BUSHING, FLANGED 3/4 ID X 7/8 OD		

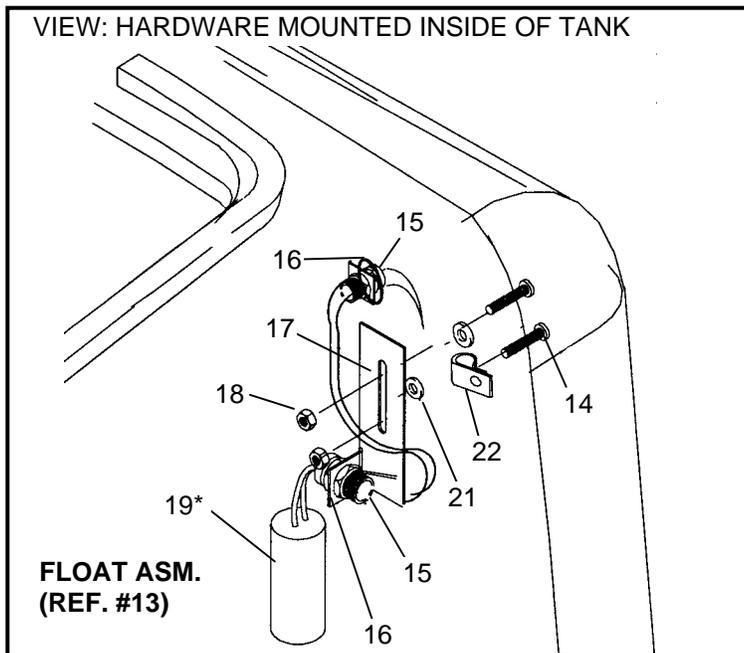
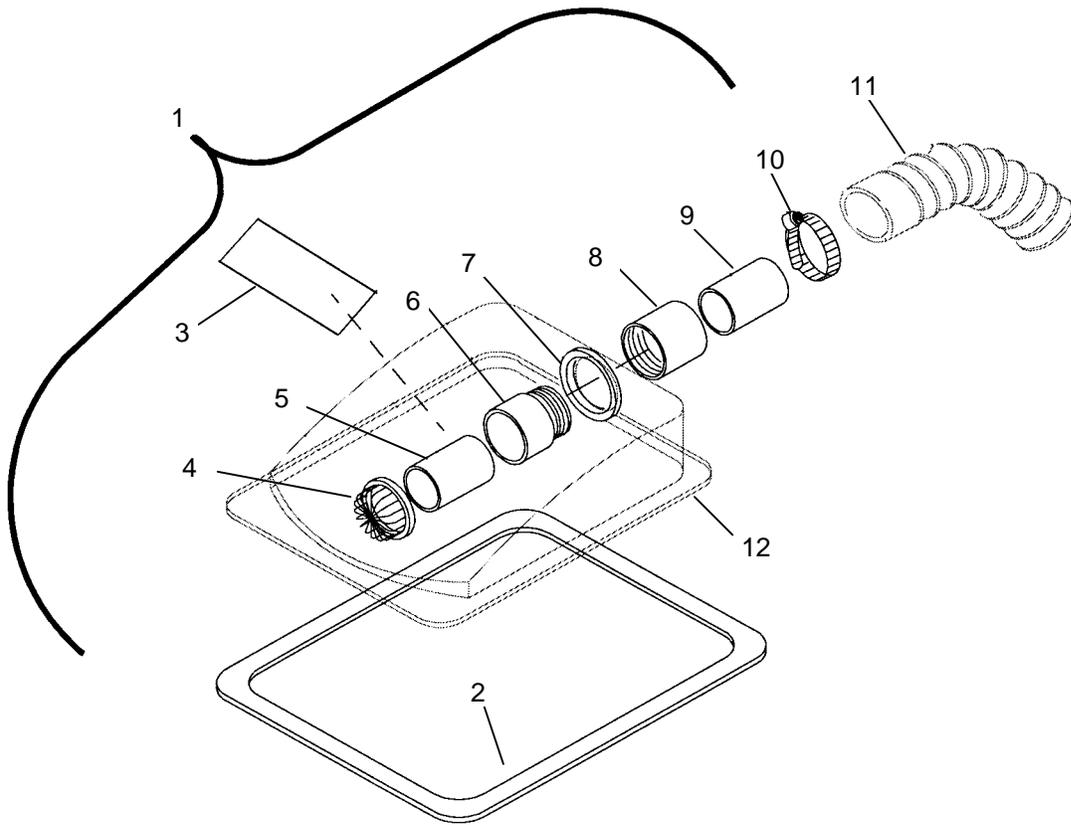
TANK ASSEMBLY



TANK ASSEMBLY

REF	PART NO.	PRVNO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86028670	75393	1	TANK ASM, VGRE W/DIAPHRAGM		
2	86063500	27472	1	COVER, LEFT TANK		
3	86005630	57022	2	NUT, 3/8-16 LOCK SS		
4	86063680	27684	1	COVER, FRONT TANK		
5	86063510	27473	1	COVER, RIGHT TANK		
6	86010650	87018	12	WASHER, #10 X 9/16 OD		
7	86063580	27557	1	COVER, SIGHT WINDOW		
8	86237570	35199	1	GASKET, VGR SIGHT WINDOW		
9	86080160	62345	1	PLATE, REAR FRAME TANK MOUNT		
10	86068750	140194	1	BRACKET, RECOVERY HOSE MNTG.		
11	86005700	57104	6	NUT, 10-24 W/STAR WASHER		
12	86240470	40090	2	HOSEBARB, 1/4 MPT X 3/8 45°		
13A	86093480	66251	1	PIVOT ASM, TANK RIGHT		
13B	86093470	66250	1	PIVOT ASM, TANK LEFT		
14	86240040	39476	1	HOSE ASM, 2" DIA.		
15	86273750	70011	5	SCREW, 1/4-20 X 5/8 HHCS		
16	86076690	41304	2	BRACKET, VOYAGER HINGE		
17	86002400	20064	2	CLAMP, 2.0" WORM GEAR X .312W		
18	86002390	20063	1	CLAMP, 1.75" WORM GEAR X .312		
19	86240330	40051	1	HOSEBARB, 3/4 MPT X 1" HOSE PVC		
20	86008400	78499	1	TETHER, DRAIN PLUG		
21	86004450	40019	1	HOSEBARB, 1.5 DOUBLE MCHND.		
22	86006240	66227	1	PLUG, DRAIN HOSE		
23	86275460	70481	6	SCREW, 1/4-20 X 3/4 BHCS		
24	86010890	89059	2	WHEEL, P120 SQG. BUMPER		
25	86096010	89231	1	BRACKET ASM, GUIDE WHEEL		
26	86006590	70088	14	SCREW, 1/4-20 X 1/2 FHMS PLTD		
27	86073290	14899	1	BRACKET, DRAIN HOSE PLUG		
28	86006670	70201	4	SCREW, 1/4-20 X 3/4 FHMS PLTD		
29	86002380	20046	1	CLAMP, 2.25" WORM GEAR		
30	86005680	57047	1	NUT, 1/4 X 20 NYLOCK PLTD		
31A	86076700	41305	1	HINGE, VGRE DOOR LEFT		
31B	86076680	41303	1	HINGE, VGRE DOOR RIGHT		
32A	86245690	50914	1	LABEL, VGRE LOGO LEFT		
32B	86245680	50913	1	LABEL, VGRE LOGO RIGHT		
33	86197950	40036	1	HOSEBARB, 1.5 MPT X 1.5		
34	86010660	87025	8	WASHER, 1/4 LOCK EXT STAR SS		
35	86279400	87151	6	WASHER, 1/4 SPLIT LOCK		
36	86240020	39408	1	HOSE, SOLUTION DRAIN W/ STAMP		
37	86004260	39472	1	HOSE, 1.5 DRAIN X 24"		
38	86233150	20042	4	CLAMP, 3/8 ID HOSE		
39	86245790	50941	1	LABEL, WINDSOR LOGO		
40	86010640	87016	4	WASHER, #10 LOCK EXT STAR		
41	86076820	40053	1	HOSEBARB, SOL. HOSE MTG		
42	86271680	57236	2	NUT, 10-32 HEX NYLOCK BLK		
43	86281580	39451	2	HOSE 3/8 NYLOBRAID X 11		
44	86006600	70114	2	SCR, #10 X 3/4 TYPE B		
45	86082940	66380	3	SPACER PLATE		

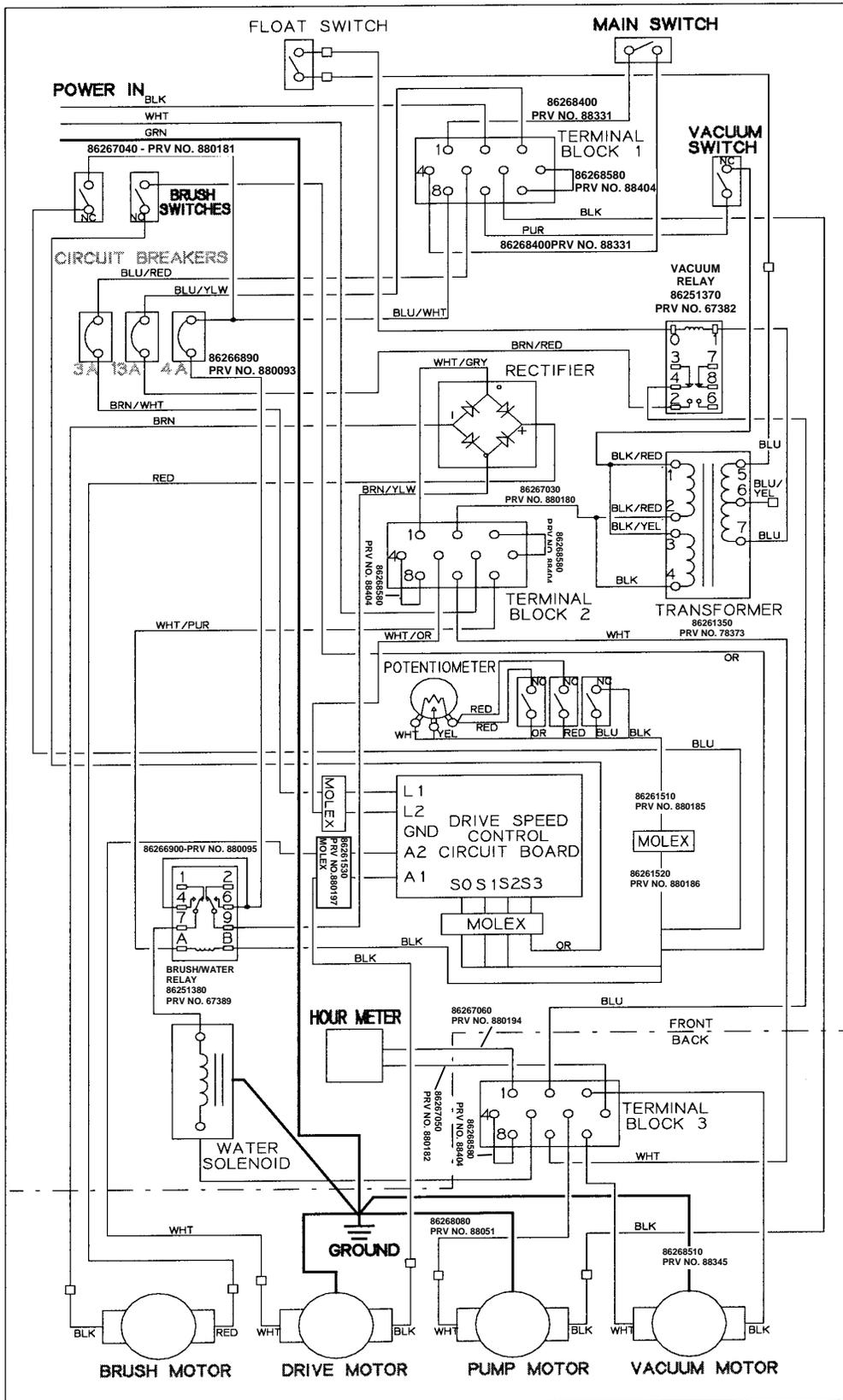
DOME AND FLOAT ASSEMBLIES



DOME AND FLOAT ASSEMBLIES

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86033070	28056	1	DOME ASM, VGRE		
2	86003740	35095	1	GASKET, VGRE DOME		
3	86242230	500009	1	LABEL, WARNING EXPLOSION		
4	86003520	34140	1	FILTER, VAC INTAKE 10 MESH		
5	86088990	78122	1	TUBE, 1.5 PVC X 1.88 IN.		
6	86197780	04032	1	ADAPTOR, 1.5 MPT X 1.5 FS PVC		
7	86087420	73198	1	SPACER, 2.26 OD X 1.91 D X 25		
8	86227090	04075	1	ADPATOR, 1.5		
9	86089080	78211	1	TUBE, 1.5 PVC X 3.31		
10	86002380	20046	1	CLAMP, 2.25" WORM GEAR		
11	86240050	39481	1	HOSE, 2" VAC X 20"		
12	86062070	28054	1	DOME, VGRE TANK		
13	86025220	34300	1	FLOAT ASSEMBLY SCV		
14	86274470	70209	2	SCREW, 10-32 X 1.75 PHMS PLTD		
15	86236240	81379	2	FITTING, SEALED BULKHEAD		
16	86247910	57044	2	NUT, NYLON 3/8 NPT		
17	86068740	140193	1	BRACKET, VGRE FLOAT		
18	86270800	57104	2	NUT, 10-24 W/ STAR WASHER		
19	86236390	34305	1	FLOAT, SHUT OFF		
20	OPEN	-	-	-		
21	86279290	87131	2	WASHER, #80R 310 FLAT W/NEO.		
22	86198450	20005	1	CLAMP, 5/16 NYLON		

WIRING DIAGRAM



SUGGESTED SPARE PARTS

PART NO.	PRV NO.	DESCRIPTION	SERIAL NO. FROM	NOTES:
86003740	35095	DOME GASKET		
86250300	66292	POTENTIOMETER, 10K OHM		

MANIFOLD PARTS

PART NO.	PRV NO.	DESCRIPTION	SERIAL NO. FROM	NOTES:
86004540	44060	JET		
86135890	44051	JET SEAL		

BRUSH PARTS

PART NO.	PRV NO.	DESCRIPTION	SERIAL NO. FROM	NOTES:
86229350	11027	BELT, BRUSH		

FILTER PARTS

PART NO.	PRV NO.	DESCRIPTION	SERIAL NO. FROM	NOTES:
86136790	73785	SOLUTION SCREEN		
86005870	59021	GASKET		

ACCESSORY TOOLS

PART NO.	PRV NO.	DESCRIPTION	SERIAL NO. FROM	NOTES:
86000050	SPW	SPOTTING WAND		
86000600	89226	DELUXE PROFESSIONAL WAND		
86000020	HT	HAND TOOL		
86000010	DHTK	DELUXE HAND TOOL KIT		
86000000	DDH	DELUXE DRY HAND TOOL		
86041180	ESW	EXTRACTION SPRAY WAND		
86041190	FSW	FASTRACTION SPRAY WAND		

NOTES