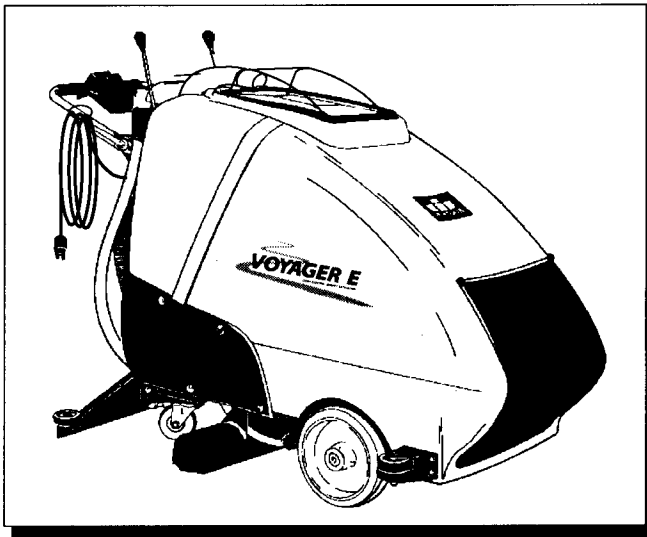


# VOYAGER E

CORD ELECTRIC CARPET EXTRACTOR



MODEL  
VGRE

POWER SOURCE  
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.*

*Antes de usar la maquina lea atentamente el libro de instrucciones.*

*Lire attentivement le mode d'emploi avant la mise en service de la machine.*

*Vor Inbetriebnahme der Maschine Bedienungsanweisung lesen.*

*Leggere queste istruzioni prima di usare la macchina.*

**E**

# TABLE OF CONTENTS

MODEL	_____
MODELO	_____
MODELE	_____
DATE OF PURCHASE	_____
FECHA DE COMPRA	_____
DATE D'ACHAT	_____
SERIAL NUMBER	_____
LAMINA DE NÚMERO DE SERIE	_____
NUMERO DE SERIE	_____
SALES REPRESENTATIVE #	_____
AGENTE DE VENTAS #	_____
REPRESENTANT #	_____
DEALER NAME	_____
NOMBRE DEL DISTRIBUIDOR	_____
NOMDUCONCESSIONNAIRE	_____

**Data Log/Table of Contents**

Datos de la Máquina.Tabla de Contenidos  
 Registre d'informations/Table des Matières..... 2

**Safety Instructions**..... 3  
 Seguridad..... 4  
 Sécurité..... 5

**Grounding Instructions**  
 Instrucciones para la puesta a tierra  
 Instructions visant la mise à la terre..... 6

**Technical Specifications**  
 Especificaciones Técnicas  
 Caractéristiques Techniques..... 7

**Controls**..... 8  
 Mandos de Control  
 Commandes de Fonctionnement

**Operations**  
 Operación  
 Opération..... 9

**Wiring Diagram (115V)**  
 Esquema Eléctrico (115V)  
 Schéma Électrique (115V)..... 15

**Maintenance**  
 Mantenimiento  
 D'entretien..... 16

**Troubleshooting**..... 17  
 D'épannage de la Machine..... 18  
 Guía de Localización de Problemas ..... 19

**Service Schedule**..... 20

**Part List**  
 Lista de Piezas  
 Liste de Pièces ..... 22/42

**Warranty**  
 Garantía  
 Garantié ..... 43

**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.

**INSPECCION**

Desempaque cuidadosamente e inspeccione su machine por daños de embarque. Cada unidad es operada y totalmente inspeccionada antes de embarcar, y cualquier daño es la responsabilidad de la compañía de embarque, a quien se le debería de notificar inmediatamente.

**INSPECTION**

Déballer et inspecter votre machine soigneusement. Chaque machine est essayée et inspectée soigneusement avant d'être remise au transporteur. Tout est la responsabilité même du transporteur et c'est pour cela qu'il doit être notifié immédi

# 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

# INSTRUCCIONES IMPORTANTES PARA SU SEGURIDAD

**Durante la utilización de un dispositivo eléctrico hay que tener en cuenta una serie de medidas básicas de precaución, que incluyen las siguientes:**



**Para reducir el riesgo de incendios, descargas eléctricas o lesiones:**

Nodeje nunca el aparato conectado a la red. Después de su uso y antes de cualquier revisión o reparación, desconecta el aparato de la toma de corriente. No usar nunca el aparato al aire libre ni sobre superficies húmedas.

No permita que se utilice el aparato como un juguete. Hay que prestar especial atención al utilizarlo en las cercanías de niños.

Utilizar el aparato solo como se describe en este manual. Emplear exclusivamente los accesorios recomendados por el fabricante. No poner en marcha el aparato con un cable eléctrico deteriorado. Si el aparato no funciona como debería, si se ha caído, dañado, si ha permanecido al aire libre o si se ha caído al agua, diríjase a un taller de servicio.

No tire del aparato ni lo transporte utilizando el cable eléctrico; no use el cable a modo de asa, ni cierre una puerta con el cable pillado; no tienda el cable en torro a aristas vivas o esquinas.

No pase con el aparato por encima del cable. Mantenga el cable siempre lejos de superficies calientes. No desconecte el enchufe de la red tirando del cable. Para desconectar el aparato hay que tirar del enchufe, no del cable.

No maneje el enchufe ni el aparato con las manos húmedas.

No introduzca ningún objeto en las aberturas del aparato.

No utilice el aparato mientras esta bloqueada una de las aberturas; evite la penetración de polvo, hilachas, pelos o cualquier objeto que pueda inhibir la circulación del aire.

Mantenga su cabello, la ropa suelta, los dedos y todas las partes de su cuerpo alejadas de las aberturas y piezas en movimiento. No utilice el aspirador para recoger cuerpos en llamas o humeantes, tales como cigarrillos, cerillas o cenizas calientes.

Desconecte todos los interruptores antes de desenchufar el aspirador.

No utilice el aspirador para recoger líquidos inflamables o combustibles, tales como gasolina, ni maneje el aspirador en zonas donde pueda haber líquidos de este tipo.

## CONSERVE ESTAS INSTRUCCIONES A MANO

# IMPORTANTES MESURES DE SÉCURITÉ

**L'utilisation d'un appareil électrique demande certaines précautions:**

**LIRE TOUTES INSTRUCTIONS AVANT DE FAIRE FONCTIONNER (CET APPAREIL)**



**AVERTISSEMENT**

**Pour réduire les risques d'incendie, de choc électrique ou de blessure:**

Cet appareil ne doit être connecté qu'à des prises ayant une sortie de terre. Se reporter aux instructions de mise à la terre.

Ne pas laisser l'appareil sans surveillance lorsqu'il est branché. Débrancher lorsque l'appareil n'est pas utilisé et avant l'entretien.

Avertissement. Pour réduire les risques de choc électrique, ne pas utiliser à l'extérieur et ne pas aspirer de matières humides.

Ne pas permettre aux enfants de jouer avec l'appareil. Une attention particulière est nécessaire lorsque l'appareil est utilisé par des enfants ou à proximité de ces derniers.

N'utiliser que conformément à cette notice avec les accessoires recommandés par le fabricant.

Ne pas utiliser si le cordon ou la fiche est endommagé. Retourner l'appareil à un atelier de réparation s'il ne fonctionne pas bien, s'il est tombé ou s'il a été endommagé, oublié à l'extérieur ou immergé.

Ne pas tirer, soulever ou traîner l'appareil par le cordon. Ne pas utiliser le cordon comme une poignée, le coincer dans l'embrasure d'une porte ou l'appuyer contre des arêtes vives ou des coins. Ne pas faire rouler l'appareil sur le cordon. Garder le cordon à l'écart des surfaces chaudes.

Ne pas débrancher en tirant sur le cordon. Tirer plutôt la fiche.

Ne pas toucher la fiche ou l'appareil lorsque vos mains sont humides.

N'insérer aucun objet dans les ouvertures. Ne pas utiliser l'appareil lorsqu'une ouverture est bloquée. S'assurer que de la poussière, de la peluche, des cheveux ou d'autres matières ne réduisent pas le débit d'air.

Maintenir les cheveux, les vêtements amples, les doigts et toutes les parties du corps à l'écart des ouvertures et des pièces mobiles.

Ne pas aspirer de matières en combustion ou qui dégagent de la fumée, comme des cigarettes, des allumettes ou des cendres chaudes.

Mettre toutes les commandes à la position ARRET avant de débrancher l'appareil.

Ne pas aspirer des liquides inflammables ou combustibles, comme de l'essence, et ne pas faire fonctionner dans des endroits où peuvent se trouver de tels liquides.

## CONSERVER CES INSTRUCTIONS

# GROUNDING INSTRUCTIONS

## THIS PRODUCT IS FOR COMMERCIAL USE ONLY. ELECTRICAL:

In the USA this machine operates on a standard 15 amp 115 volt A.C. power circuit (129V nominal). 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.

### 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.

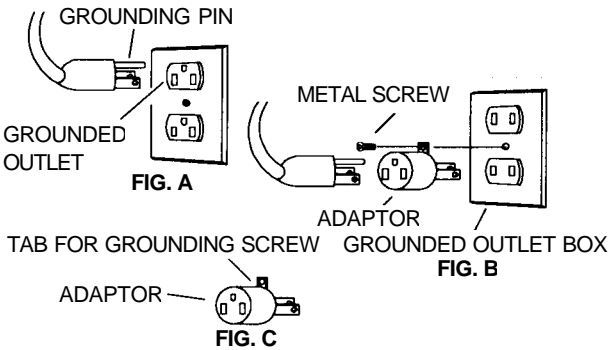
This appliance is for use on a nominal 120-volt circuit, and has a grounded plug that looks like the plug in "Fig. A". A temporary adaptor that looks like the adaptor in "Fig. C" may be used to connect this plug to a 2-pole receptacle as shown in "Fig. B", if a properly grounded outlet is not available. 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 the like 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.

## WARNING:

Improper connection of the equipment-grounding conductor

can result in a risk of electrical 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 will not fit the outlet, have a proper outlet installed by a qualified electrician.

### PROPER GROUNDING



**NOTE:** In Canada, the use of temporary adaptor is not permitted by the Canadian Electrical Code

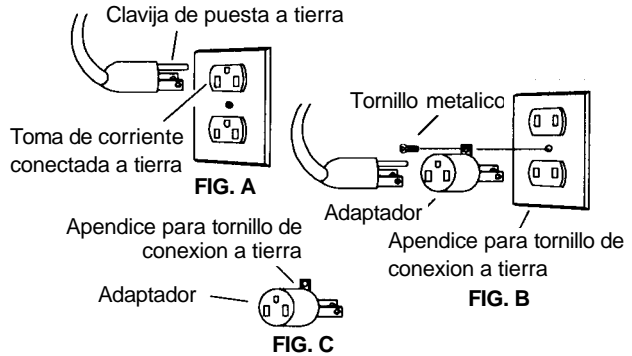
### INSTRUCCIONES PARA LA PUESTA A TIERRA:

Este dispositivo tiene que ser puesto debidamente a tierra. Si se produce una avería o rotura, la conexión a tierra constituye el camino de menor resistencia para la corriente eléctrica, reduciéndose el riesgo de descargas peligrosas. El aparato cuenta con un cable con conductor de puesta a tierra y un enchufe con clavija de puesta a tierra de acuerdo con las normas y ordenanzas locales.

## ADVERTENCIA:

Si se conecta de modo inadecuado el conductor

de puesta a tierra del aparato pueden producirse descargas eléctricas peligrosas para le usuario. En caso de dudas, pedir a un electricista debidamente cualificado o a un tecnico del servicio postventa que verifique que la toma de corriente esta bien puesta a tierra. Si el enchufe suministrado con el aparato no se adapta a la tome de corriente disponible, no hay que modificar el enchufe, sino dirigirse a un electricista para que instale una tome corriente adecuada.

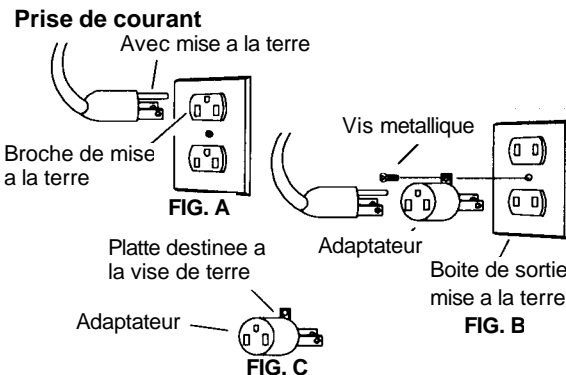


**AVERTENCIA:** en Canada, la Canadian Electrical Code prohíbe el uso de adaptadores temporales.

Cet appareil doit être mis à la terre. En cas de défaillance ou de panne éventuelles, la mise à la terre fournit au courant un chemin de moindre résistance qui réduit le risque de choc électrique. Cet appareil est pourvu d'un cordon muni d'un conducteur de terre et d'une fiche avec broche de terre. La fiche doit être branchée dans une prise appropriée correctement installée et mise à la terre conformément aux règlements et ordonnances municipaux.

## ADVERTISSEMENT:

Un conducteur de terre cordé peut entraîner un risque de choc électrique. Consulter un électricien ou un technicien d'entretien qualifié si vous n'êtes pas certain que la prise est correctement mise à la terre. Ne pas modifier la fiche fournie avec l'appareil - si elle ne peut être insérée dans la prise, faire installer une prise adéquate par un électricien qualifié.

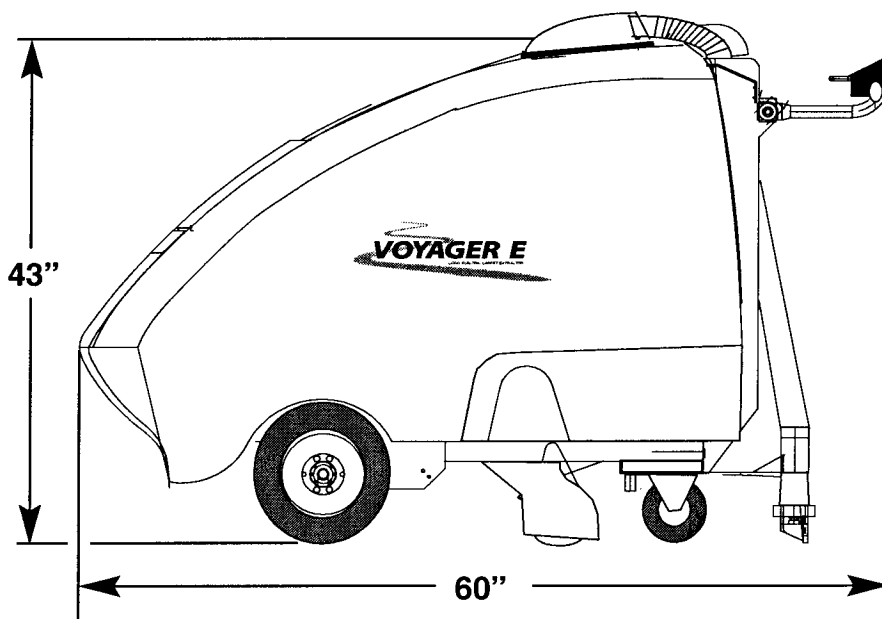


**NOTE:** Au Canada, l'utilisation d'un adaptateur temporaire n'est pas autorisée par le Code canadien de l'électricité.

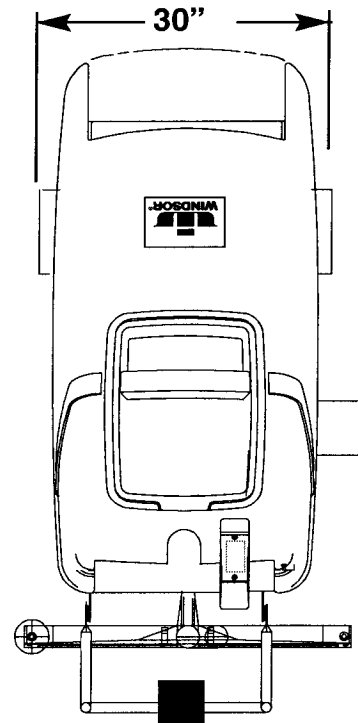
# TECHNICAL SPECIFICATIONS

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 <sup>3</sup> /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)

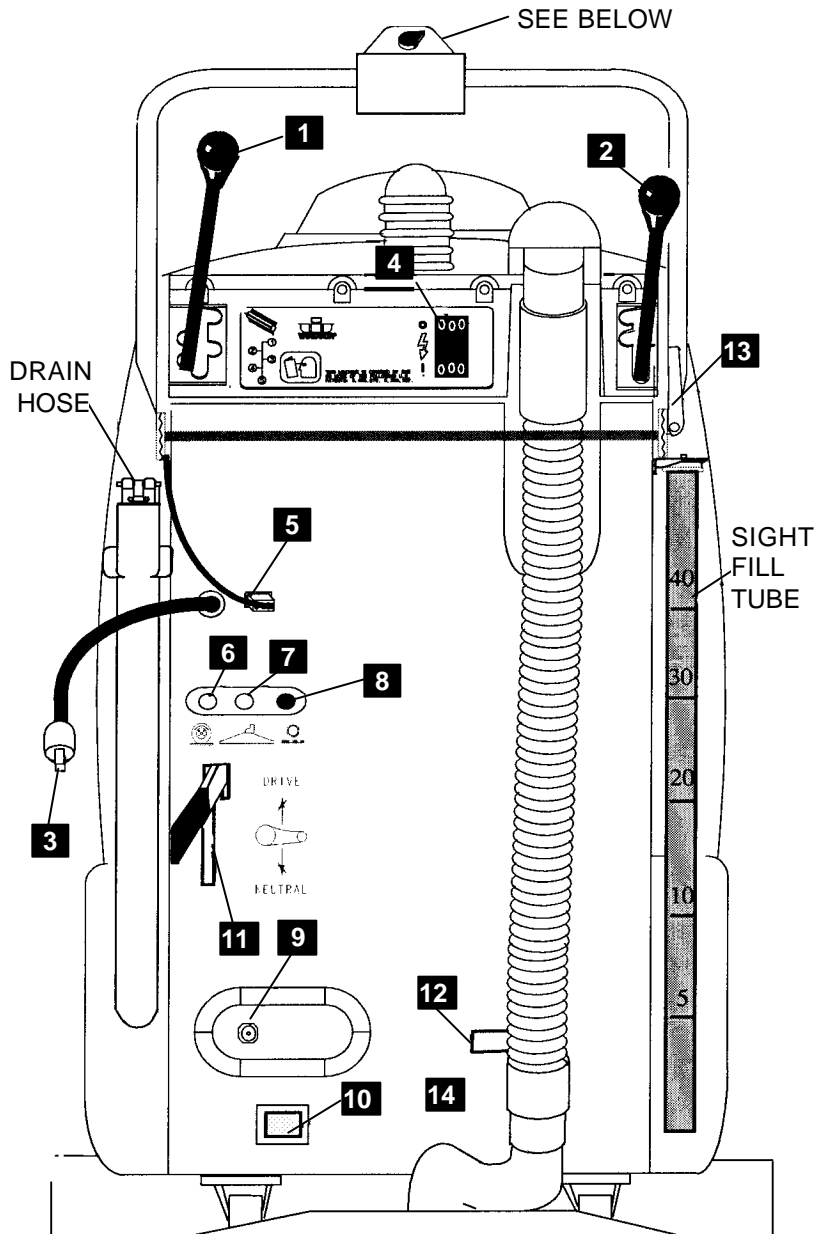
**SIDE VIEW**



**TOP VIEW**

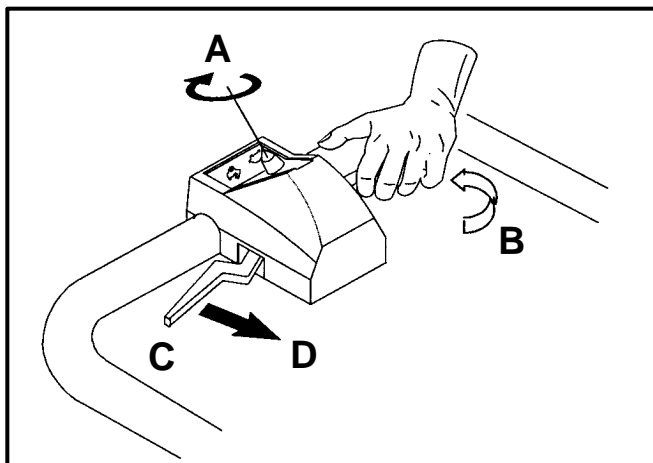


# CONTROLS



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 “Drive” 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 adaptor.

## DRIVE CONTROLS



- A. 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.
- B. Squeezing one or both of the control levers will propel the machine forward at the selected speed.
- C. Releasing both control levers will stop the machine.
- D. Pressing forward on the levers moves the machine backwards at the selected speed.





STEP  
1



STEP  
2



## FILLING THE VOYAGER

NOTE: IF A BUCKET IS USED TO FILL THE TANK, BE SURE IT IS CLEAN.

**DO NOT PUT DEFOAMER, SOLVENTS, SPOTTER OR PRESpray CHEMICALS IN THE SOLUTION TANK.**

## CHEMICALS-QUIMICOS-CHIMIQUES

### SUITABLE CHEMICALS

Alkalis  
Detergents  
Hydroxides  
Soaps  
Vinegar  
D-Limonene@  
@When properly diluted  
\* Registered Trademark

### NON-COMPATIBLE CHEMICALS

Aldehydes  
Aromatic Hydrocarbons  
SP Butyls  
Carbon Tetrachloride  
Chlorox\*  
Chlorinated Bleaches  
Chlorinated Hydrocarbons  
Lysol\*  
Methyl Ethel Ketone (MEK)  
Perchorethylene (perc)  
Phenolics  
Trichlorethylene

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.

STEP  
3

Add cleaning chemical.  
Agregue el concentrado.  
Y ajouter un concentré nettoyant selon.



STEP  
4



## OPERATIONS

STEP  
1

Remove cord from storage bin.  
Saque el cordón eléctrico del compartimineto.  
Retirer le câble du bac avant de la machine.



STEP  
2

Adjust handle to operating position.  
Ajuste la agarradera en la posición correcta.  
Placez la poignée dans la position désirée.



STEP  
3

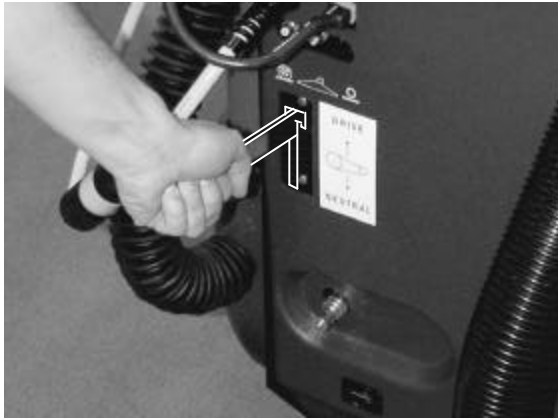
Plug cord into grounded outlet.  
Enchufe el cordón eléctrico a un toma corriente.  
Brancher la machine à une prise avec terre.



STEP  
4

Turn Main Power Switch "ON" – "I"  
Encienda el interruptor principal.  
Mettre la machine en marche.



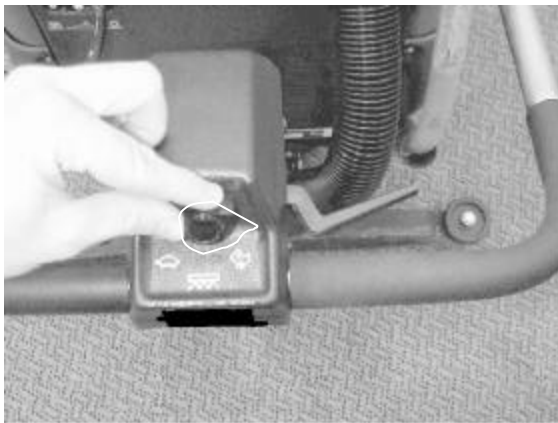


**STEP**  
**5**

Lift belt tension handle to "Drive" position.

Levante la palanca del la correa de tensión del cepillo hacia la posición de marchar ("Drive").

Enclencher la poignée de tension de la courroie en position marche.



**STEP**  
**6**

Adjust speed control knob to desired speed.

Establezca la velocidad utilizando el botan de control de velocidad.

Ajuster le bouton de contrôle de vitesse à la vitesse.

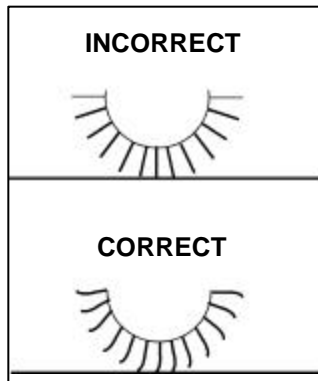


**STEP**  
**7**

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

Baje la boquilla de aspiración utilizando la palanca de elevación localizada a la derecha.

Abaisser la poignée droite de contrôle de l'aspiration.



**STEP**  
**8**

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

Baje el cepillo utilizando la palanca de elevación de la izquierda.

Abaisser la poignée de contrôle de vitesse pour faire avancer la machine.

## OPERATIONS

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

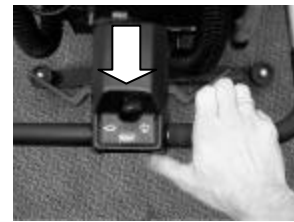
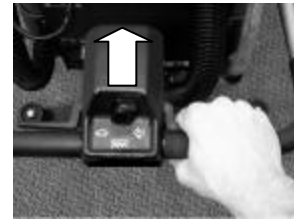
STEP  
9

Presionando una o las dos palancas de control, la máquina andará hacia delante a la velocidad seleccionada.

Presionado hacia delante las palancas, la máquina irá marcha atrás a la velocidad seleccionada.

Enclencher la poignée de tension de la courroie en position marche.

Pousser la poignée vers l'avant fait reculer la machine.



### ! CAUTION

Foam! Turn off machine and add defoamer.

### ! PRECAUCIÓN

Si hay espuma excesiva, apague la máquina y agregue un agente despumante al tanque de recuperación.

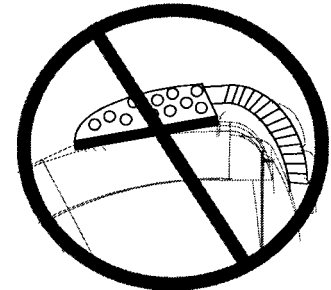
### ! ATTENTION

Mousse! Si de la mousse ou du liquide sort de la machine, Y ajouter un concentré qui ne fait pas de mousse.

"off"



"on"



## CLEANING PROCEDURE

Operate machine in parallel passes. Clean perimeter last.

Utilice la máquina en faces paralelas.

Utiliser la machine en passages parallèles.

STEP  
1



STEP  
2

Use right side of machine for cleaning against walls.

Cuando utilice la máquina junto a las paredes, utilice el lado derecho de la máquina.

Utiliser le côté droit se la machine pour nettoyer contre les murs.





STEP  
3

To speed drying, use a WINDBLOWER™ fan.

Para secar la alfombrar mas rapido, utilice un abanico WINDBLOWER™.

Pour accélérer le séchage, utiliser un WINDBLOWER™.



STEP  
4

Empty recovery tank by releasing dump hose.

Desagüe el tanque de recuperación utilizando la manguera.

Vider le réservoir eau sale en utilisant le tuyau de vidange.



STEP  
5

Turn Main Power Switch "OFF" – "O".

Apague el interruptor principal.

Eteindre la machine.



STEP  
6

Unplug machine. Return cord to storage bin.

Desenchufe la máquina. Regrese el cordón electrico al compartimiento de la máquina.

Débrancher la machine. Remettre le câble dans le bac avant de la machine.

## ACCESSORY TOOL USAGE

Insert collar over fitting.

STEP  
1

Conecte la manguera de solución de la herramienta de accesorio al anillo de latón de desconectado rápido.

Attacher l'outil accessoire à la tétine de solution en cuivre à l'arrière en bas du chassis de machine.

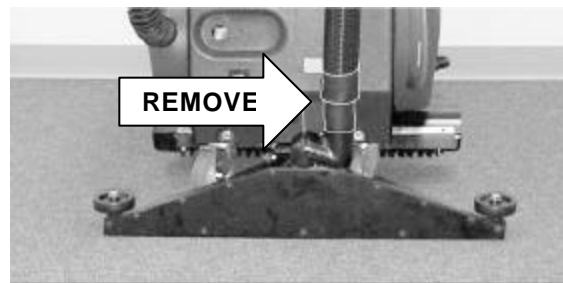


Insert adaptor into vac shoe hose, then insert accessory tool cuff onto adaptor.

STEP  
2

Quite la manguera de la boquilla de aspiración. Conecte la manguera de solución de la herramienta de asesorio a la manguera del tanque de recuperación.

Attacher l'outil accessoire.



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

STEP  
3

Encienda el interruptor principal.

Mettre la machine en marche.



Squeeze handle on accessory tool to begin cleaning.

STEP  
4

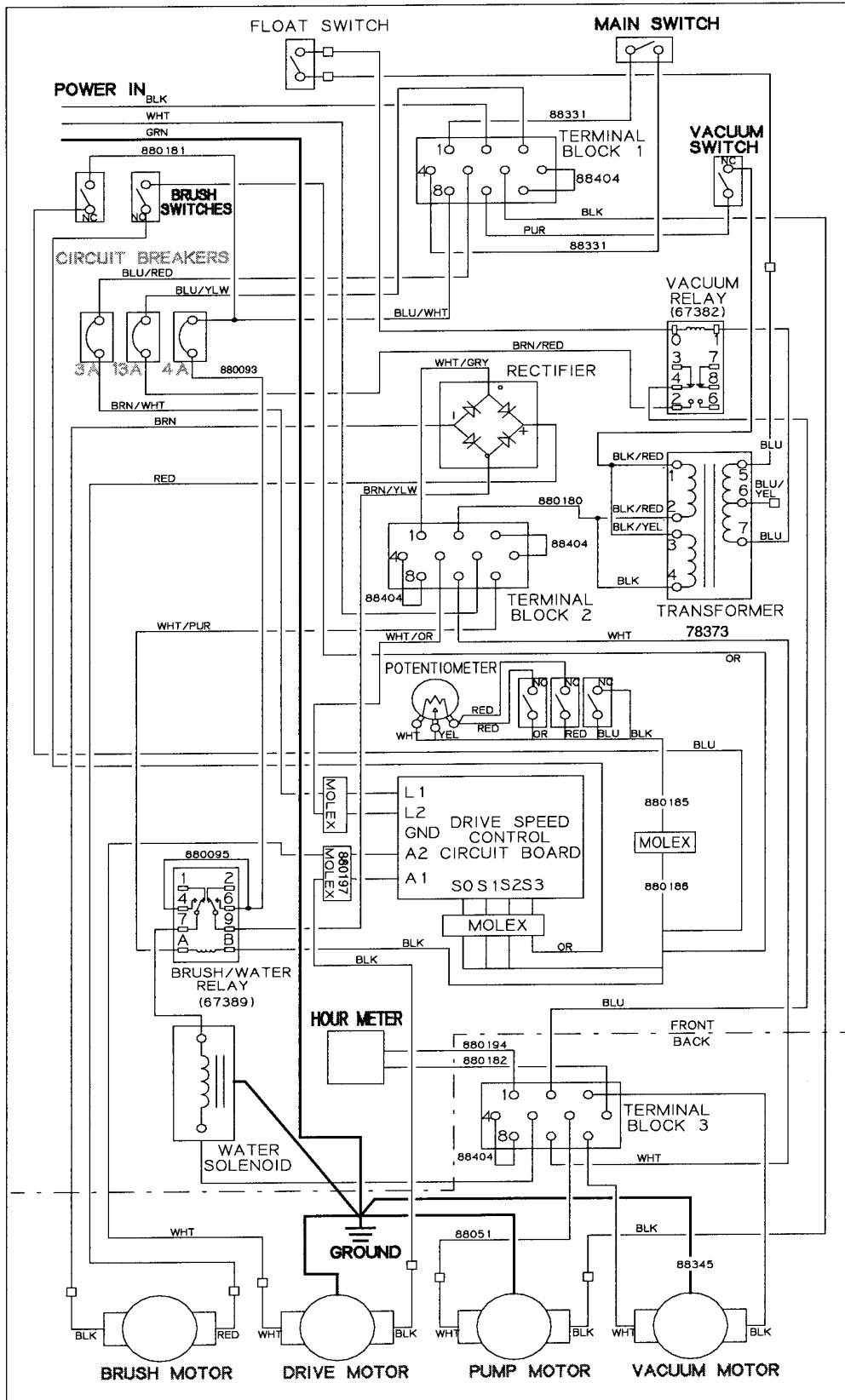
Para empezar a limpiar, apriete la palanca de solución.

Presser la gâchette afin de commencer la vaporisation.





# WIRING DIAGRAM ESQUEMA ELÉCTRICO SCHÉMA ÉLECTRIQUE (115V)



## MAINTENANCE

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 recovert 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.*



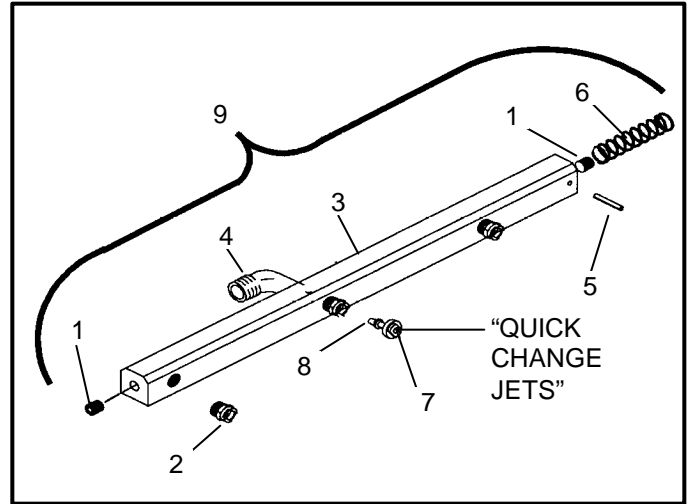
### CAUTION:

**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.**

### MANIFOLD / SPRAY JETS

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.

1	66095	PLUG, 1/8 NPT HEX BRASS
2	44052	JETBODY, BRASS W/ SEAL
3	54138	MANIFOLD ASM, 3 JET
4	40033	HOSEBARB, 1/4 MPT X 3/8 90D
5	66052	PIN, 1/8 X 1.0 ROLL
6	73576	SPRING, 2" X .600 OD
7	44060	JET, 8002 MINI-QUICK REPLACEMENT
8	44051	JET SEAL, MINI-QUICK
9	54162	MANIFOLD ASM, 3 JET



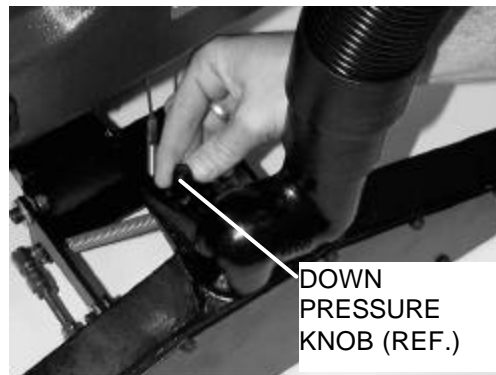
### VAC SHOE TRACKING

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 black knob on top of vac shoe clockwise to increase downpressure and counterclockwise to decrease downpressure.

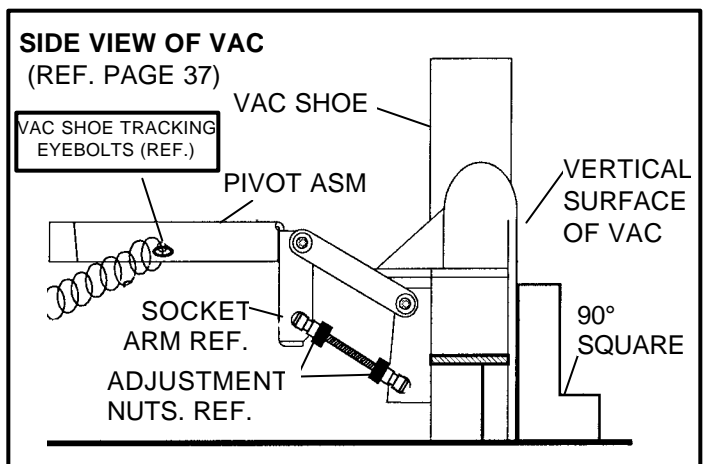


### VAC SHOE ANGLE

**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 a 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.





## TROUBLESHOOTING CHART

CONDITION	CORRECTIVE ACTION	
<b>No Power to Machine</b>	Faulty power cord	Replace
	Power switch failure	Replace if necessary.
	Internal wiring problem	Have a trained service technician inspect and repair the machine.
<b>Electrical Shock</b>	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.
<b>Nuisance Tripping of Brush Circuit Breaker</b>	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.
<b>Vacuum Motor Speed Varies or Doesn't Run</b>	Worn motor brushes	Replace
	Faulty switch	Replace
	Faulty circuit breaker	Replace
	Internal wiring problem	Have a trained service technician inspect and repair the machine.
<b>Loss of Vacuum</b>	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.
<b>Machine does not propel</b>	Internal electrical problem	Have a trained service technician inspect and repair the machine.
	Belt tension handle on "Neutral"	Put belt tension handle in "Drive" position.

## TABLA PARA CORREGIR PROBLEMAS

PROBLEMA	ACCIÓN CORRECTIVA	
<b>Máquina sin corriente</b>	Cordón eléctrico defectuoso	Cámbielo
	Falla del interruptor eléctrico	Pruebe la continuidad del interruptor/Cámbielo si es necesario.
	Disyuntor defectuoso	Pruebe la continuidad del disyuntor/Cámbielo si es necesario.
	Problema interno de cableado	Con la máquina desenchufada, verifique y corrija cualquier conexión eléctrica floja dentro de la máquina, en los interruptores y el bloque de terminales.
<b>Choque eléctrico</b>	Equipo sin conexión a tierra	Siga las instrucciones de puesta a tierra al pie de la letra.
	Tomacorriente sin tierra	Haga que un electricista inspeccione el cableado del edificio.
	Tomacorriente sin tierra	Asegúrese de que el cableado de la máquina coincida con el diagrama de cableado correspondiente. Verifique y corrija cualquier conexión de alambres flojos. Cambie los alambres o componentes que estén corto circuitados.
<b>Choque eléctrico</b>	Cepillo seco	Encienda el motor del cepillo y los interruptores de la bomba con la máquina inclinada hacia atrás (el cepillo sin tocar el piso). Baje lentamente la máquina hasta la alfombra.
	Disyuntor defectuoso	Pruebe la continuidad del disyuntor/Cámbielo si es necesario.
	Problema mecánico	Un consumo muy elevado de amperios puede indicar un problema mecánico. Localice las partes que no se están moviendo libremente y repárelas o cámbielas.
<b>La velocidad del motor de la aspiradora varía o aquél no funciona</b>	Escobillas del motor gastadas	Cámbielas
	Motor gastado	Cámbielas
	Interruptor defectuoso	Cámbielas
	Disyuntor defectuoso	Cámbielas
	Problema de cableado interno	Localice y corrija cualquier conexión de alambres flojos.
<b>Pérdida de vacío</b>	Domo flojo	Centre el domo sobre el tanque.
	Domo rajado o articulación deficiente	Cámbielos o repárellos usando cemento acrílico para plástico solamente.
	Junta del domo dañada	Cámbiela.
	Pelusa o basura tuyendo la rejilla de entrada de vacío	Con la electricidad desconectada, limpie la rejilla de entrada de vacío en el domo.
	La herramienta del accesorio está tupida	Limpie la herramienta del accesorio, y asegúrese de que el aire fluye libremente.
	Problema eléctrico interno	Pídale a un técnico de servicio capacitado que inspeccione y repare la máquina.

## TABLEAU DE DÉPANNAGE

PROBLEMA	ACCIÓN CORRECTIVA	
<b>Machine hors tension</b>	Cordon d'alimentation défectueux	Le remplacer
	Défaillance de l'interrupteur de marche/arrêt	Contrôler la continuité de l'interrupteur/Le remplacer si nécessaire.
	Disjoncteur défectueux	Contrôler la continuité du disjoncteur/Le remplacer si nécessaire.
	Problème de câblage interne	Débrancher la machine, puis rechercher et rectifier toute mauvaise connexion à l'intérieur de la celle-ci au niveau des interrupteurs et du bornier.
<b>Décharge électrique</b>	Absence de mise à la terre du matériel	Suivre à la lettre les directives de mise à la terre.
	Absence de mise à la terre de la prise de courant	Demander à un électricien d'examiner le câblage du bâtiment.
	Problème électrique interne	Vérifier que le câblage de la machine correspond au schéma de câblage approprié. Remplacer tout fil ou composant qui provoque des courts-circuits.
<b>Déclenchement intempestif du disjoncteur</b>	Brosse sèche	Tourner le moteur de brosse et actionner les interrupteurs en inclinant la machine en arrière (brosse décollée du sol). Rabaisser la machine lentement jusque sur la moquette.
	Disyuntor defectuoso	Contrôler la continuité du disjoncteur/Le remplacer si nécessaire.
	Problème mécanique	Un accroissement de la consommation de courant peut indiquer un problème mécanique. Identifier les pièces qui ne se déplacent pas librement, puis les réparer ou les remplacer.
<b>Variations de régime ou non fonctionnement du moteur</b>	Charbons du moteur usés	Les remplacer.
	Moteur détérioré par l'usage	Les remplacer.
	Interrupteur défectueux	Les remplacer.
	Disjoncteur défectueux	Les remplacer.
	Problème de câblage interne	Rechercher et rectifier toute mauvaise connexion.
<b>Perte d'aspiration</b>	Dôme d'aspiration mal ajusté	Centrer le dôme sur le réservoir.
	Dôme fêlé ou mal emboîté	Le remplacer ou le réparer en n'utilisant que du mastic acrylique.
	Joint d'étanchéité du dôme endommagé	Le remplacer
	Filtre d'entrée d'aspiration bouché par des peluches ou de la crasse	Con la electricidad desconectada, limpie la rejilla de entrada de vacío en el domo.
	Accessoire bouché	Mettre la machine hors tension, puis nettoyer le filtre d'aspiration qui se trouve dans le dôme.
	Problème électrique interne	Demander à un technicien d'entretien qualifié d'examiner et de réparer la machine.

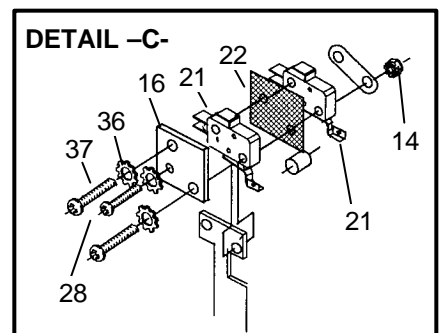
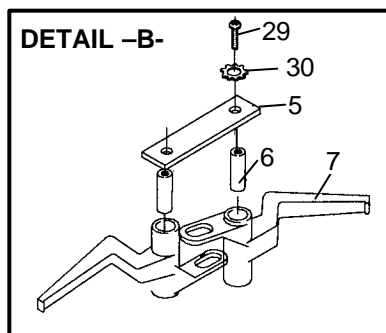
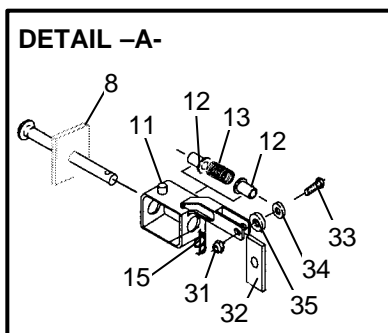
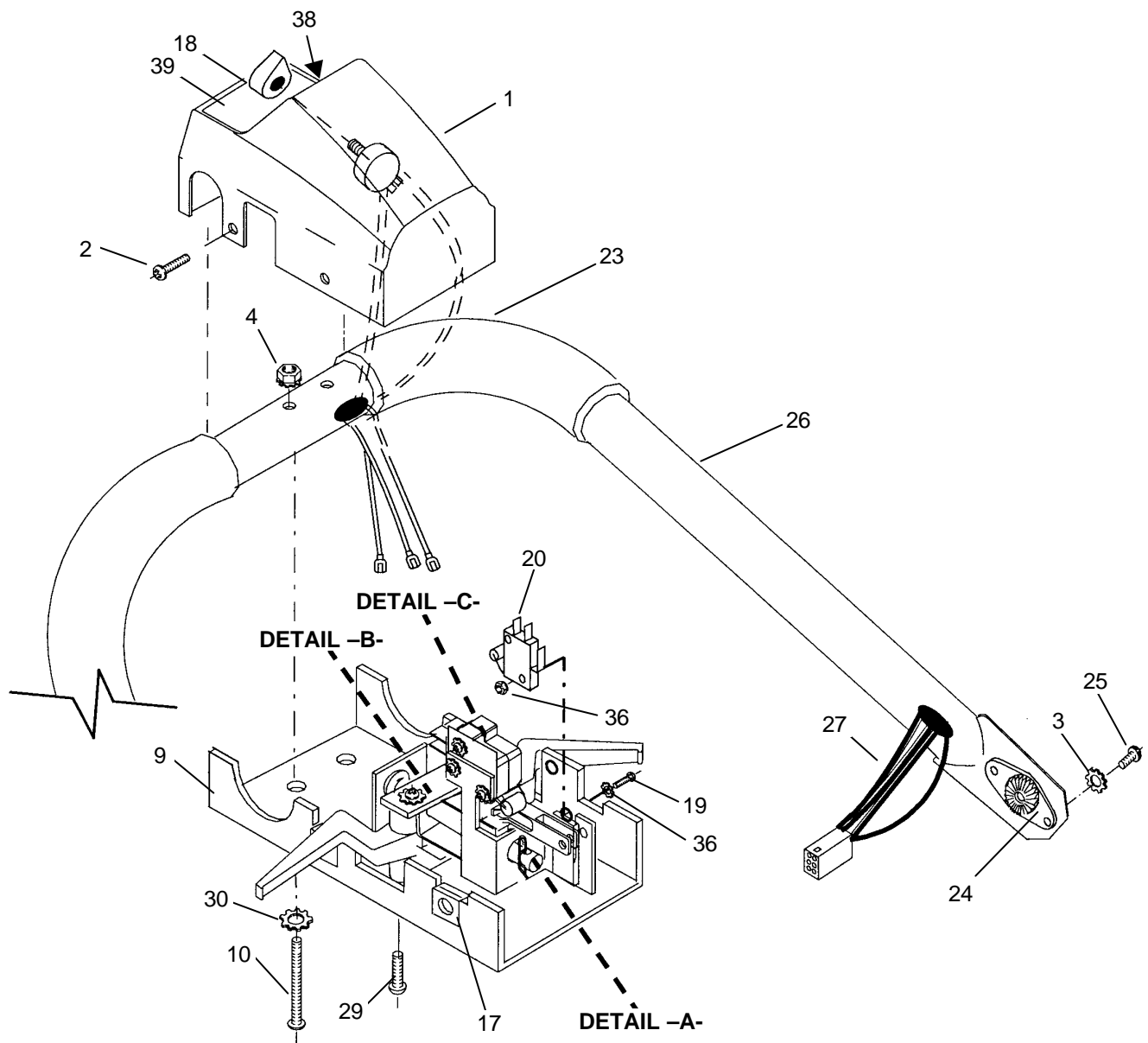
# MAINTENANCE

## 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			*

**NOTES:**  
**NOTAS:**  
**REMARQUE:**

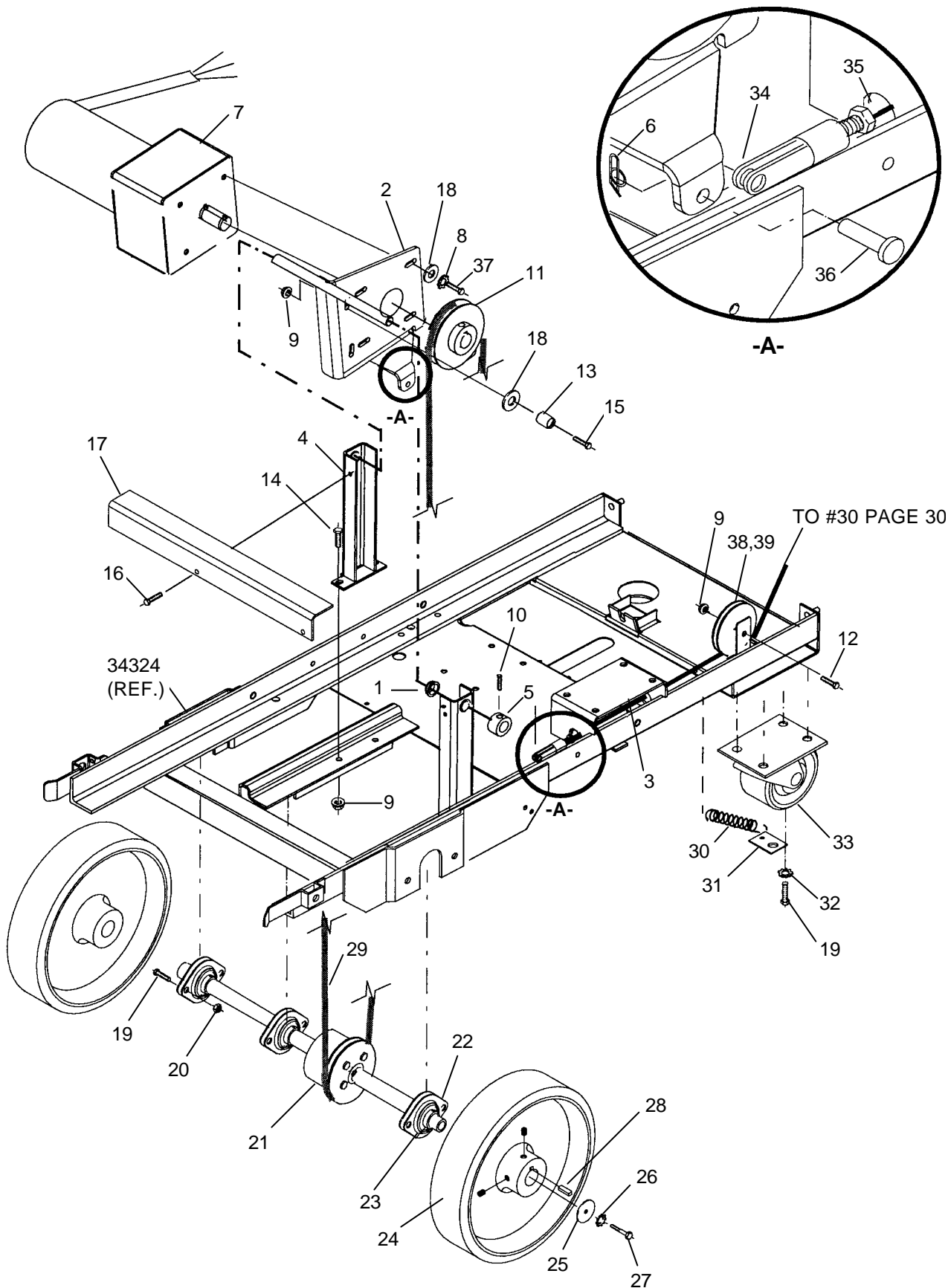
# HANDLE ASSEMBLY



## HANDLE ASSEMBLY PARTS LIST

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	27568	1	COVER, PROPEL HANDLE		
2	70406	4	SCREW, 10B X 3/8 PHSM BLK		
3	87018	4	WASHER, #10 X 9/16 OD		
4	57236	2	NUT, 10-32 HEX NYLOCK BLK		
5	71116	1	SUPPORT, LEVER PIVOT		
6	67271	2	ROD, HANDLE LEVER PIVOT		
7	51186	2	LEVER, PROPEL CTRL HANDLE		
8	66184	1	PIN, CLEVIS 1/4 X 2.438		
9	62705	1	PLATE ASM, PROP. CTRL		
10	70209	2	SCREW, 10-32 X 1.75 PHMS		
11	36136	1	GUIDE, LEVER CENTERING		
12	14866	2	BUSHING, PROPEL CONTROL		
13	73236	1	SPRING, COMP .36D X 1.12L X .04W		
14	57116	2	NUT, 6-32 HEX W'LOCK WSHR		
15	80604	1	RING, RUE COTTER 1/4"		
16	62663	1	PLATE, DUAL SWITCH		
17	57028	4	NUT, 10-24 TINNEMAN		
18	48043	1	KNOB, SPEED CONTROL		
19	70245	2	SCREW, 4-40 X 3/4 PHMS PLTD		
20	72157	1	SWITCH, 10A ROLLER MINI		
21	72158	2	SWITCH, 10A PLUNGER MINI		
22	05126	1	ACTUATOR, TANDEM SWITCH		
23	36123	2	GRIP, CLP HANDLE X 9.5"		
24	51184	2	LOCK, HANDLE ADJUSTMENT		
25	70228	4	SCREW, 10-32 X 1/4 PHMS		
26	38183	1	HANDLE, VGRE MAIN		
27	880185	1	WIRE ASM, VGRE HANDLE		
28	70493	1	SCREW, 4-40 X 1/4 TYPE F		
29	70088	4	SCREW, 10-32 X 1/2 PPHMS		
30	87016	4	WASHER, #10 LOCK EXT STAR		
31	57047	1	NUT, 1/4-20 NYLOCK PLTD		
32	62704	1	PLATE, LEVER GUIDE		
33	70015	1	SCREW, 1/4-20 X 3/4 HHCS GR5		
34	87013	1	WASHER, 1/4 ID X 5/8 OD SS		
35	73876	1	SPACER, .50OD X .31 ID X .188L		
36	87026	5	WASHER, #6 EXT TOOTH LCK		
37	70401	2	SCREW, 4-40 X 1.25 PHMS		
38	500582	1	LABEL, SPEED TACHOMETER		
39	500583	1	LABEL, VGR SPEED CONTROL		

# DRIVE ASSEMBLY

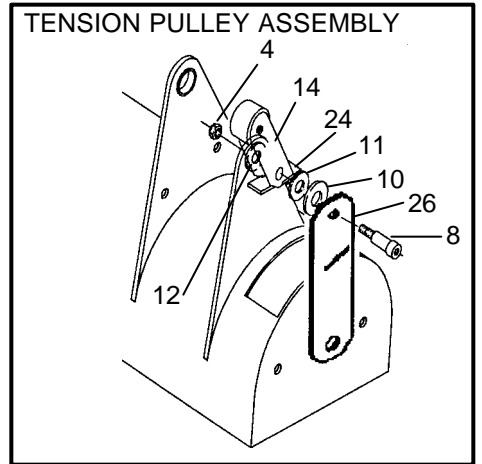
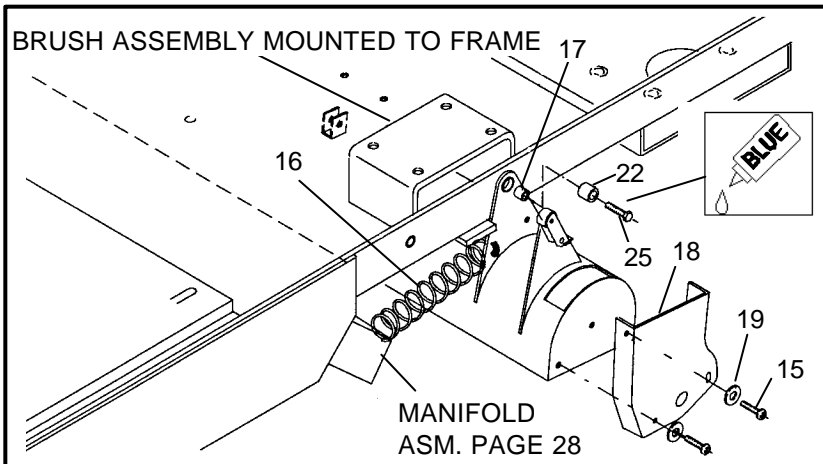
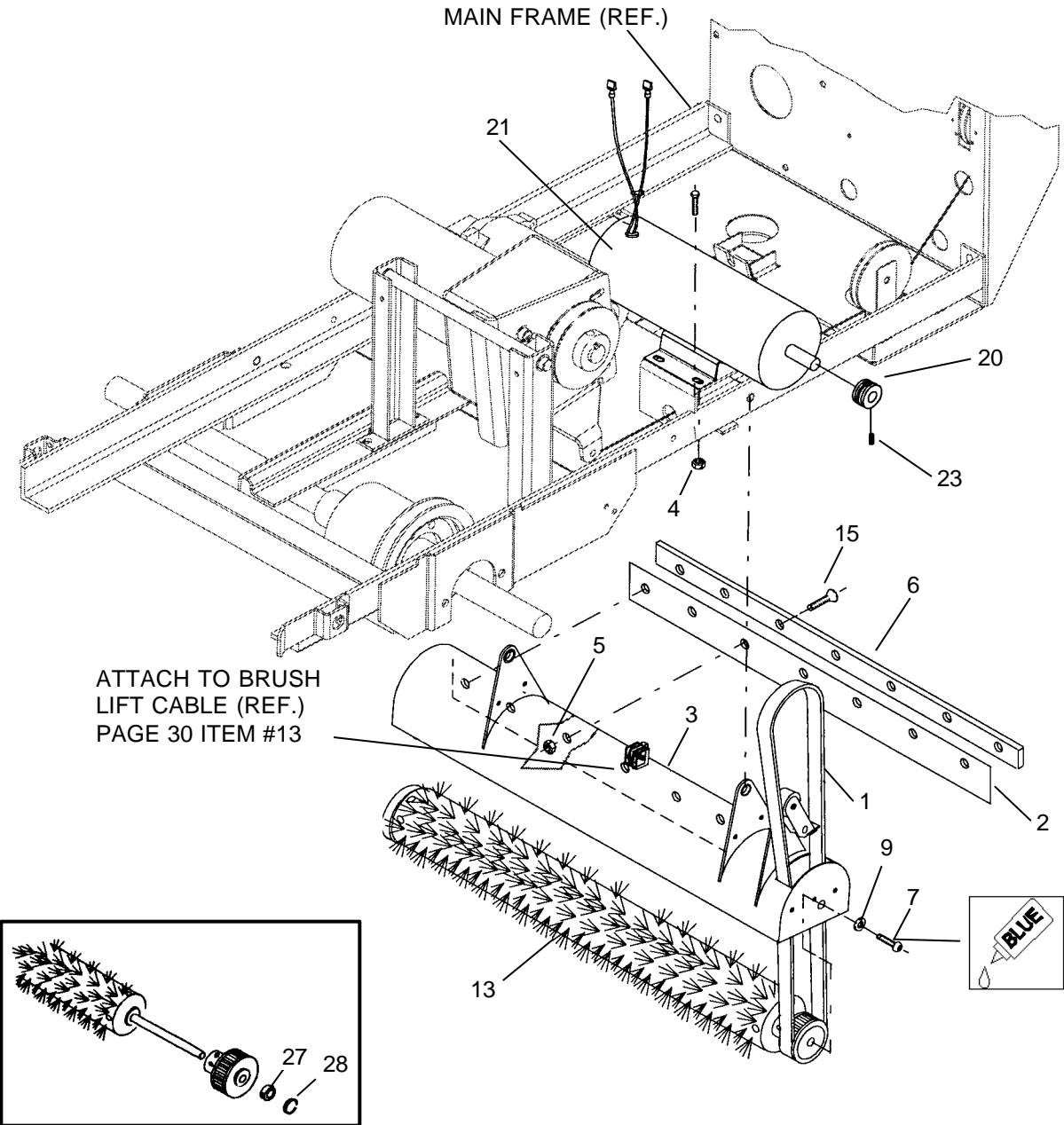




## DRIVE ASSEMBLY PARTS LIST

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	09025	2	BEARING, 12 ID NYLINER		
2	140234	1	BRACKET ASM, MOTOR PIVOT		
3	REF	-	CABLE ASM, #27762		
4	140240	2	BRACKET, SUPPORT MTR. PIVOT		
5	27279	2	COLLAR, .88 X .503 X .50 TAP'D CRS		
6	80604	1	RING, RUE COTTER 1/4" PLTD		
7	53628	1	MOTOR ASM, TRACTION VGRE		
8	87025	4	WASHER, 1/4 EXT. STAR		
9	57047	9	NUT, 1/4-20 NYLOCK PLTD.		
10	70126	2	SET SCREW, 1/4-28 X 1/4 KCP		
11	64093	1	PULLEY, 3.5 OD V-BELT		
12	70018	1	SCREW, 1/4-20 X 1.0 HHCS		
13	73874	2	SPACER, .500 X .281 ID X 1.38 LG		
14	70015	4	SCREW, 1/4-20 X 3/4 HHCS		
15	70022	2	SCREW, 1/4-20 X 2" HHCS		
16	70088	2	SCREW, 10-32 X 1/2 PPHMS		
17	140259	1	BRACKET, SUPPORT VGRE		
18	87013	6	WASHER, 1/4 ID X 5/8 OD SS		
19	70305	14	SCREW, 5/16-18 X 3/4 HHCS PLTD		
20	57113	6	NUT, 5/16-18 NYLOCK PLTD		
21	29201	1	DIFFERENTIAL, VGRE		
22	81003	3	FLANGETTE, 1" BEARING (PAIR)		
23	81002	3	BEARING, 1" BORE		
24	89078	2	WHEEL, 10" X 2-1/2" GRAY		
25	87008	2	WASHER, 1/4 ID X 1-1/4" OD PLTD		
26	87025	2	WASHER, 1/4 LOCK EXT. STAR SS		
27	70011	2	SCREW, 1/4-20 X 5/8 HHCS SS		
28	48052	2	KEY, 1/4 X 1/4 X 2-1/2"		
29	11042	1	BELT, VGRE		
30	73240	2	SPRING, 1/2 X 2.25I EXT.		
31	62394	2	PLATE, SPRING HOOK		
32	87067	2	WASHER, 5/16 LOCK INT STAR SS		
33	18031	2	CASTER, 4" HARD RUBBER SWIVEL		
34	80603	1	CLEVIS, 1/4" YOKE END 1/4-28		
35	57029	1	NUT, 1/4-28 HEX SS		
36	66116	1	PIN, CLEVIS 1/4" X 3/4" PLTD		
37	70617	4	SCREW, 1/4-28 X 1 HHCS		
38	78359	1	TUBE, 13/32 X .049W X 1.56I CRS		
39	64090	1	PULLEY, 2.88 X 2.25 X .40 CABLE		

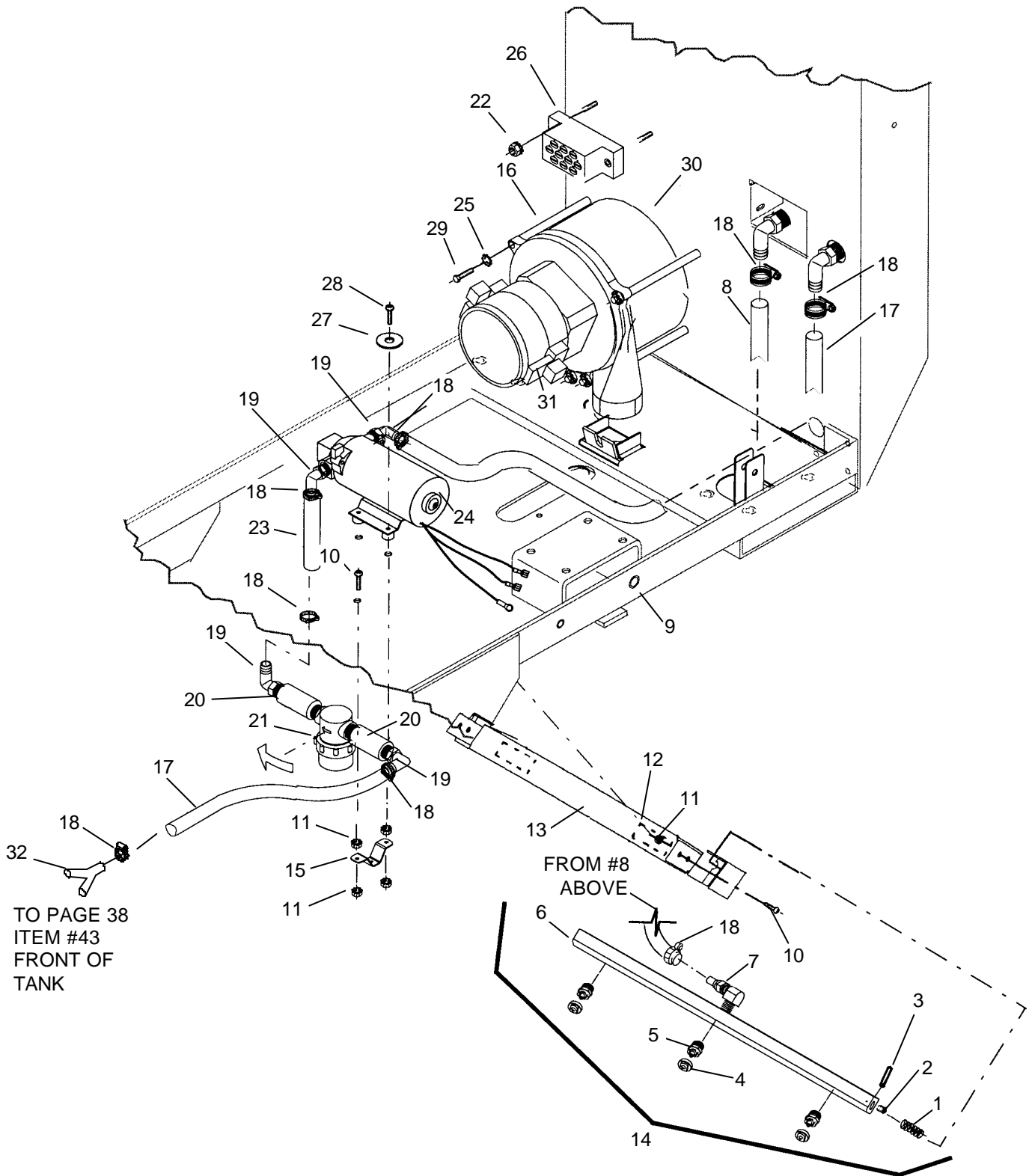
# BRUSH ASSEMBLY



## BRUSH ASSEMBLY PARTS LIST

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	11027	1	BELT, BRUSH DRIVE BELT		
2	36175	1	GUARD, VOYAGER SPLASH		
3	41288	1	HOUSING BRUSH		
4	57047	5	NUT, 1/4-20 NYLOCK PLTD		
5	57104	7	NUT, 10-32		
6	67106	1	RETAINER, SPLASH GUARD		
7	70011	6	SCREW, 1/4-20 X 5/8 HHCS		
8	70267	1	SHOULDER BOLT, 5/16 OD X 1.25		
9	87025	2	WASHER, 1/4 LOCK EXT STAR		
10	87029	1	WASHER, 5/16 FLAR SAE		
11	87030	1	WASHER, 3/8 ID X 3/4 OD NYLON		
12	87074	1	WASHER, WAVE 3/8 ID X 3/4 D X .125		
13	12508	1	BRUSH ASM, VGRE		
14	64101	1	PULLEY ASM		
15	70088	9	SCREW, 10-32 X 1/2 PPHMS SS		
16	73578	2	SPRING, 4.00 X .75 OD EXT		
17	09025	2	BEARING, 1/2 ID NYLINER		
18	27673	1	COVER, VOYAGER BELT GUARD		
19	87018	2	WASHER, #10 X 9/16 OD		
20	64022	1	PULLEY, POLY-V BELT MOTOR		
21	53629	1	MOTOR ASM, BRUSH VGRE		
22	73606	2	SPACER, 1/2OD X .088D X .058W X .26LG CRS		
23	70074	2	SET SCREW, 10-32 X 1/4 KCP		
24	73307	1	SPRING, COMP .88D X 1.46 X 1.00W		
25	70104	2	SCREW, 3/8-16 X 3/4 BHMS		
26	62820	1	PLATE, VGR PULLEY		
27	09019	2	BEARING, BRUSH		
28	67093	1	RING, 1 1/8 INT. SNAP		

# PUMP, MANIFOLD AND VAC ASSEMBLIES



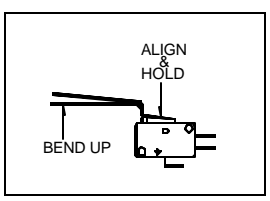
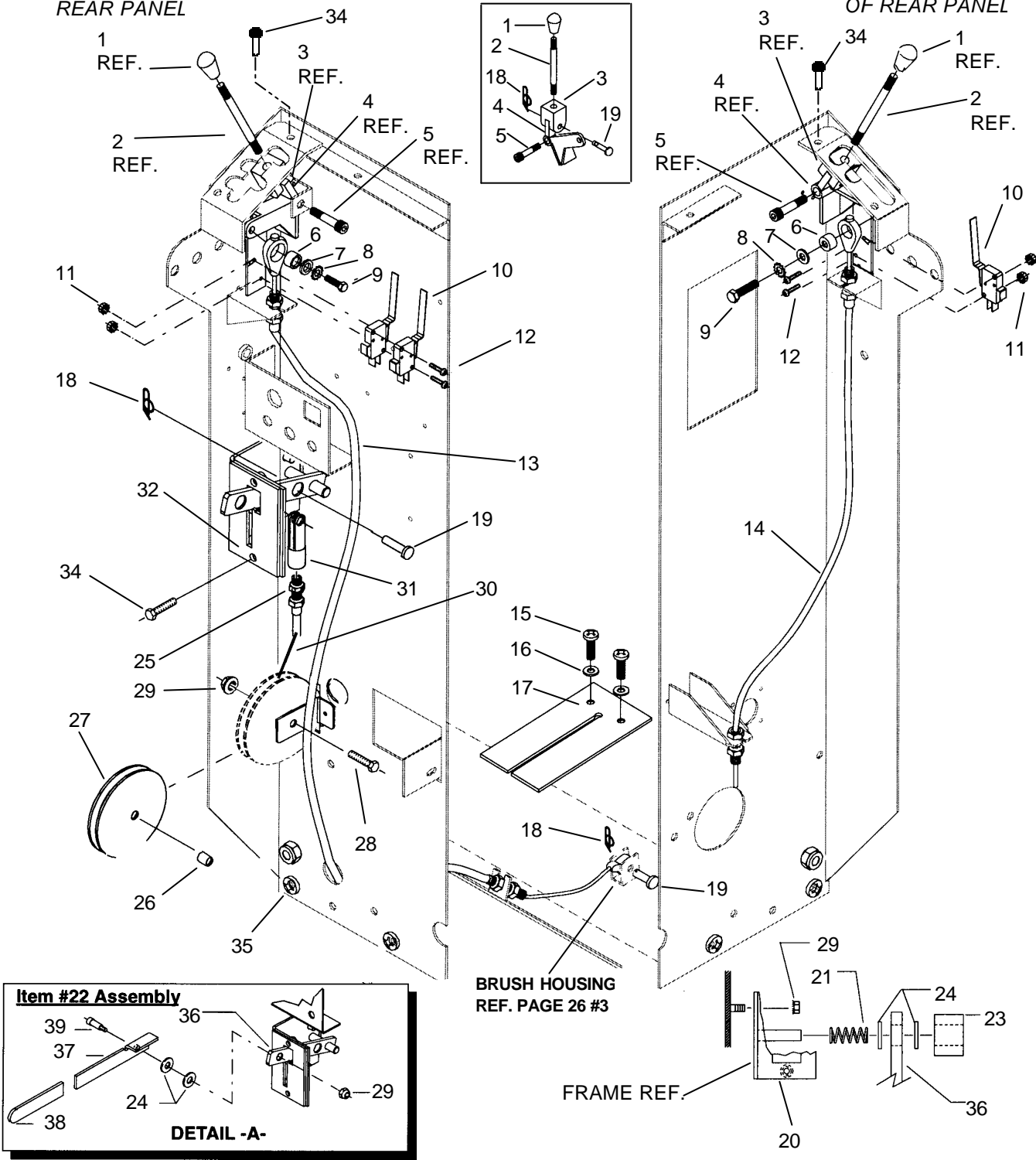
## **PUMP, MANIFOLD AND VAC ASSEMBLIES PARTS LIST**

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	73576	1	SPRING, 0.6 OD X 2.0L COMP.		
2	66095	2	PLUG, 1/8 MPT HEX BRASS		
3	66052	1	PIN, 1/8 X 1" ROLL		
4	44060	3	JET, 80002 MINI-QUICK		
5	44052	3	JETBODY, MINI-QUICK W/SEAL		
6	54138	1	MANIFOLD, VGR		
7	40033	1	HOSEBARB, 1/4 MPT X 3/8 90D		
8	39204	1	HOSE, 3/8 NYLOBRAID X 29"		
9	34324	1	FRAME, MAIN VGRE		
10	70066	5	SCREW, 10-32 X 3/4 PPHMS		
11	57104	8	NUT, 10-32 W/STAR WASHER		
12	99873	2	TAPE, 5/8 X 1/4 X 3" PORON		
13	14902	1	BRACKET, VGR MANIFOLD		
14	54162	1	MANIFOLD ASM, VGR-3-JET		
15	14454	1	BRACKET, VALVE		
16	73566	3	SPACER, 1/2 OD X 3.0 W/1/4-20 AL		
17	39499	1	HOSE, 3/8" NYLOBRAID X 13"		
18	20042	8	CLAMP, 3/8 HOSE (D-SLOT)		
19	40034	4	HOSEBARB, 3/8 MPT X 3/8 90D		
20	22003	2	COUPLER, 3/8 X 3/8 FPT PVC		
21	73573	1	STRAINER, 3/8 NPT 80 MESH		
22	57116	2	NUT, 6-32 W/STAR WASHER PLTD		
23	39486	1	HOSE, 3/8 NYLOBRAID X 2"		
24	65169	1	PUMP ASM, VGRE		
25	87025	3	WASHER, 1/4 LOCK EXT STAR SS		
26	14020	1	TERMINAL, BLOCK 115V		
27	87018	4	WASHER, #10 X 9/16 OD		
28	70253	4	SCREW, 10-32 X 1.25 PHMS		
29	70011	3	SCREW, 1/4-10 X 5/8 HHCS SS		
30	53785	1	VAC MOTOR ASM, 115V VGRE		
31	14445	1	BRUSH SET, 115V VAC MOTOR		
32	12-800398	1	"Y" FITTING		

# REAR TOWER MECHANICAL ASSEMBLIES

VIEW: LEFT SIDE OF REAR PANEL

VIEW: RIGHT SIDE OF REAR PANEL



NOTE: 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. INSTALL THE SWITCHES WITH THE SCREWS LOOSE ENOUGH TO ALLOW THE TOP SCREW TO SLIDE IN THE MOUNTING SLOT. WITH THE LEVER IN THE TOP POSITION, SLIDE THE SWITCHES BACK UNTIL THEY BOTH CLICK, TIGHTEN THE SWITCHES IN THIS POSITION.

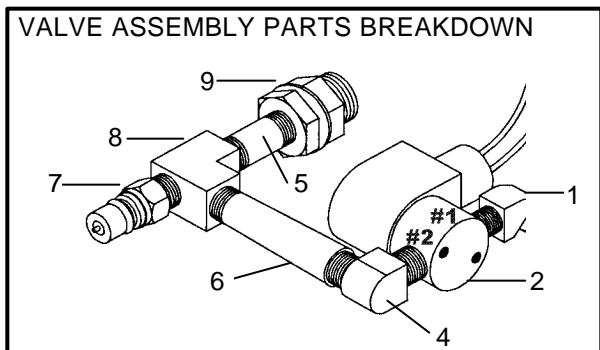
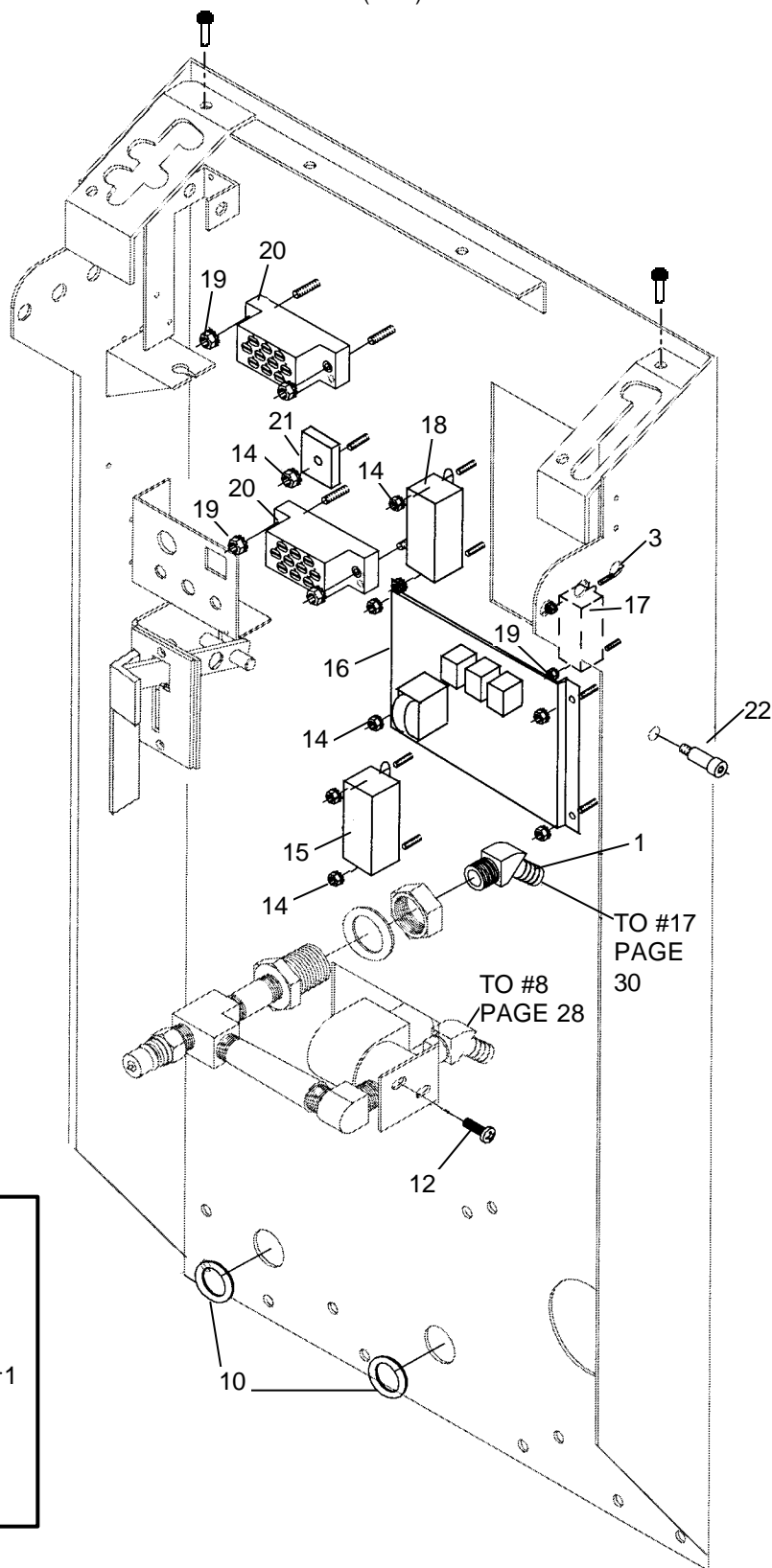
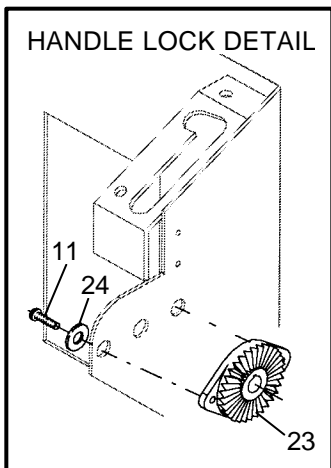
BRUSH & REVERSE SWITCH

## REAR TOWER MECHANICAL ASSEMBLIES PARTS LIST

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	48030	2	KNOB, PT 17/20 BLACK		
2	38186	2	HANDLE, BRUSH/VAC CONTROL		
3	27559	2	CLEVIS, 3/8-16 UNC ROD END		
4	51170	2	LEVER ASM, HANDLE PIVOT		
5	70117	2	SHOULDER BOLT, 5/16 OD X 1.0 L		
6	73220	2	SPACER, EPB CABLE/CASE HARD		
7	87013	2	WASHER, 1/4ID X 5/8 OD SS		
8	87025	2	WASHER, 1/4 LOCK EXT STAR SS		
9	70011	2	SCREW, 1/4-20 X 5/8 HHCS SS		
10	72082	3	SWITCH, SOL LEVER BENT		
11	57163	4	NUT, 4-40 W/STAR WASHER		
12	70401	4	SCREW, 4-40 X 1.25 PHMS		
13	27486	1	CABLE, BRUSH LIFT		
14	27488	1	CABLE, VAC SHOE LIFT		
15	70187	2	SCREW, 10-24 X 1/2 PHTC -F-		
16	87018	2	WASHER, #10 X 9/16 OD		
17	36179	1	GUARD, SPLASH		
18	80604	3	RING, RUE CUTTER 1/4 PLTD		
19	66116	3	PIN, CLEVIS 1/4" X 3/4" PLTD		
20	140232	1	BRACKET ASM, IDLER HANDLE PIVOT		
21	73043	1	SPRING, COMP .75 D X 1.5 L X .062 W		
22	38281	1	HANDLE ASM, BELT TENSION		
23	27063	1	COLLAR, 3/8 SHAFT		
24	87030	2	WASHER, .390 I X 3/4 TEFLON		
25	57029	2	NUT, 1/4-20 HEX W/STAR WASHER		
26	78359	1	TUBE, 13/32 X .049 W X 1.56 L CRS		
27	64090	1	PULLEY, 2.88 X 2.25 X .40 CABLE		
28	70018	1	SCREW, 1/4-00 X 1.5 HHCS		
29	57047	4	NUT, 1/4-20 NYLOCK PLTD		
30	27762	1	CABLE, .09 D X 33 SS TENSION		
31	80603	1	CLEVIS, 1/4" YOKE END 1/4-28		
32	62668	1	PLATE, HANDLE GUIDE		
33	-	-	OPEN		
34	70088	6	SCREW, 10-32 X 1/2 PPHMS		
35	70329	4	SCREW, 1/4-20 X 3/4		
36	38280	1	HANDLE, BELT TENSION VGRE		
37	140286	1	BRKT, LIFT LEVER HANDLE		
38	36133	1	GRIP, VINYL HANDLE		
39	70296	1	SHOULDER BOLT, 5/16 OD X 1/2 L		

# REAR TOWER VALVE, ELECTRICAL ASSEMBLIES

REAR TOWER  
(REF.)



TO #8  
PAGE 28

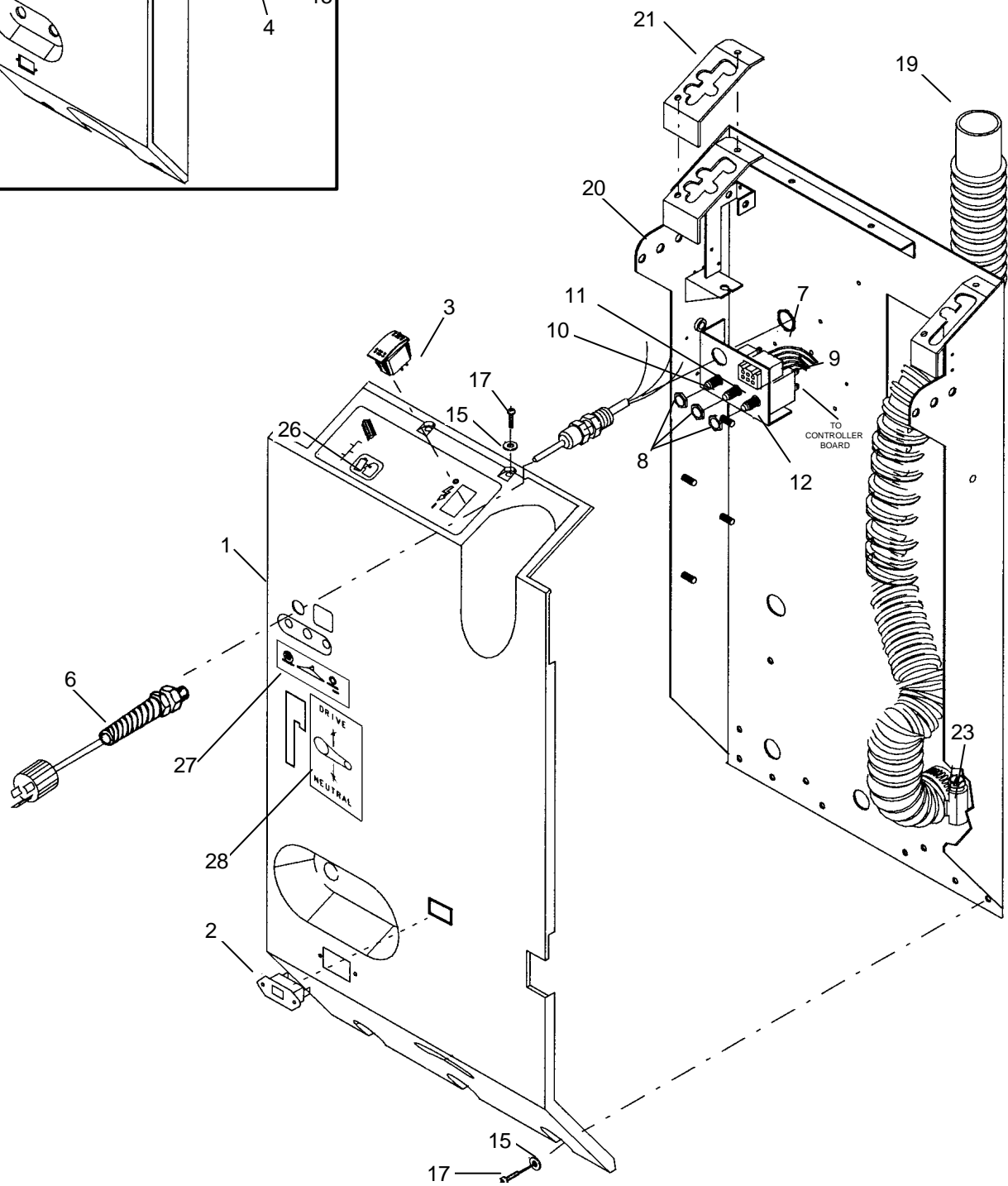
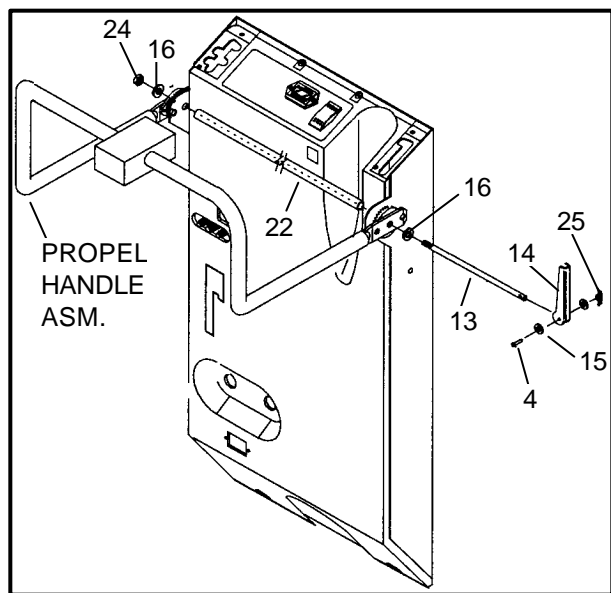
TO #17  
PAGE 30



## REAR TOWER ELECTRICAL ASSEMBLIES PARTS LIST

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

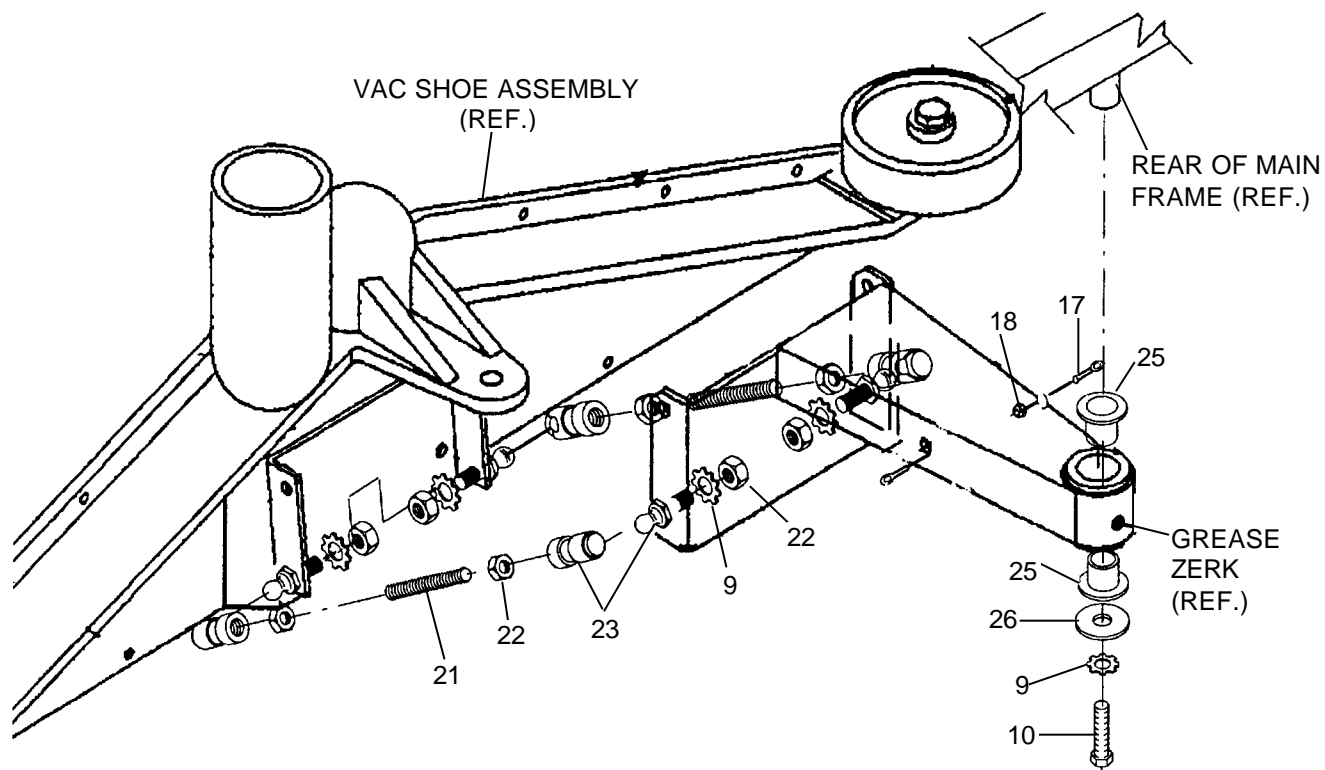
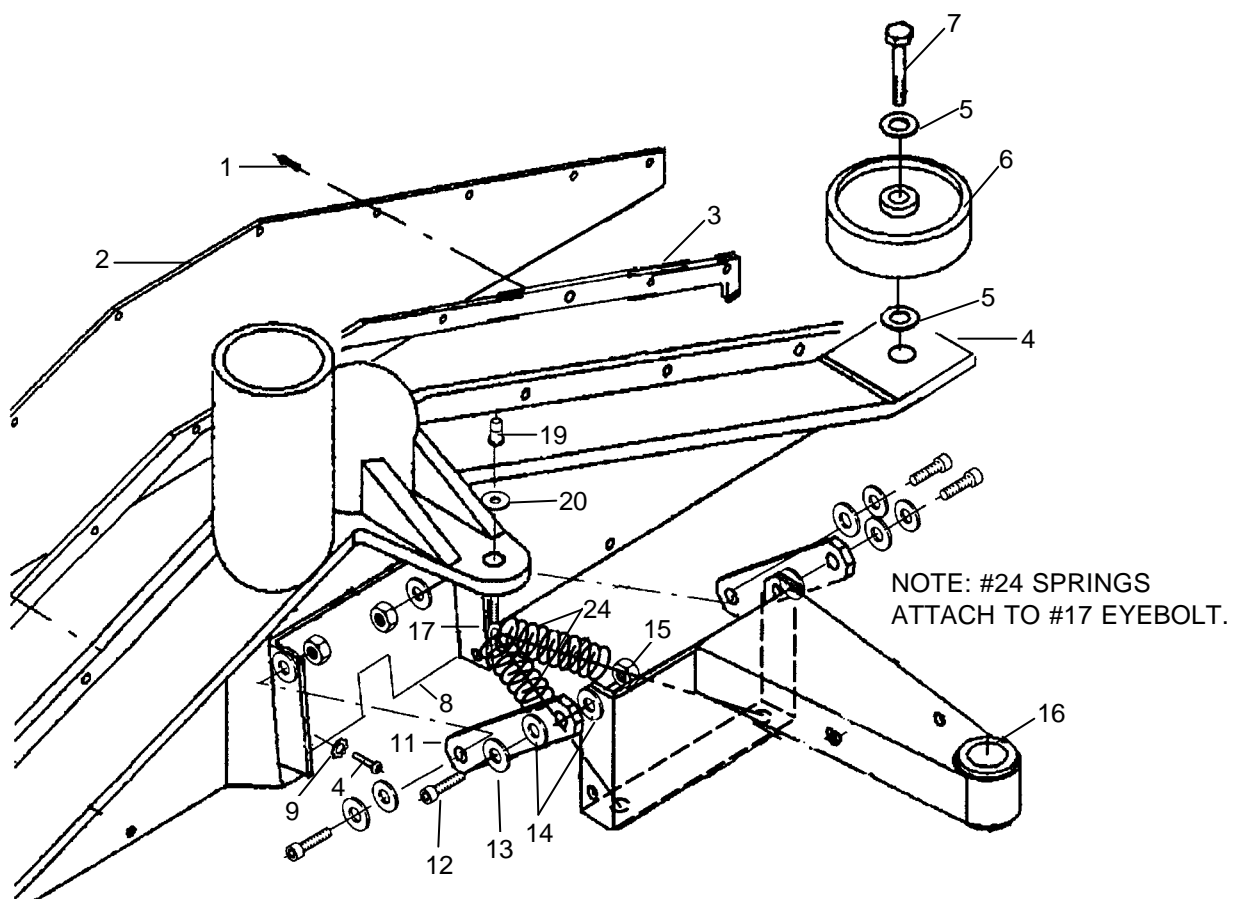
# REAR TOWER ELECTRICAL COMPONENTS



## REAR TOWER ELECTRICAL ASSEMBLIES PARTS LIST

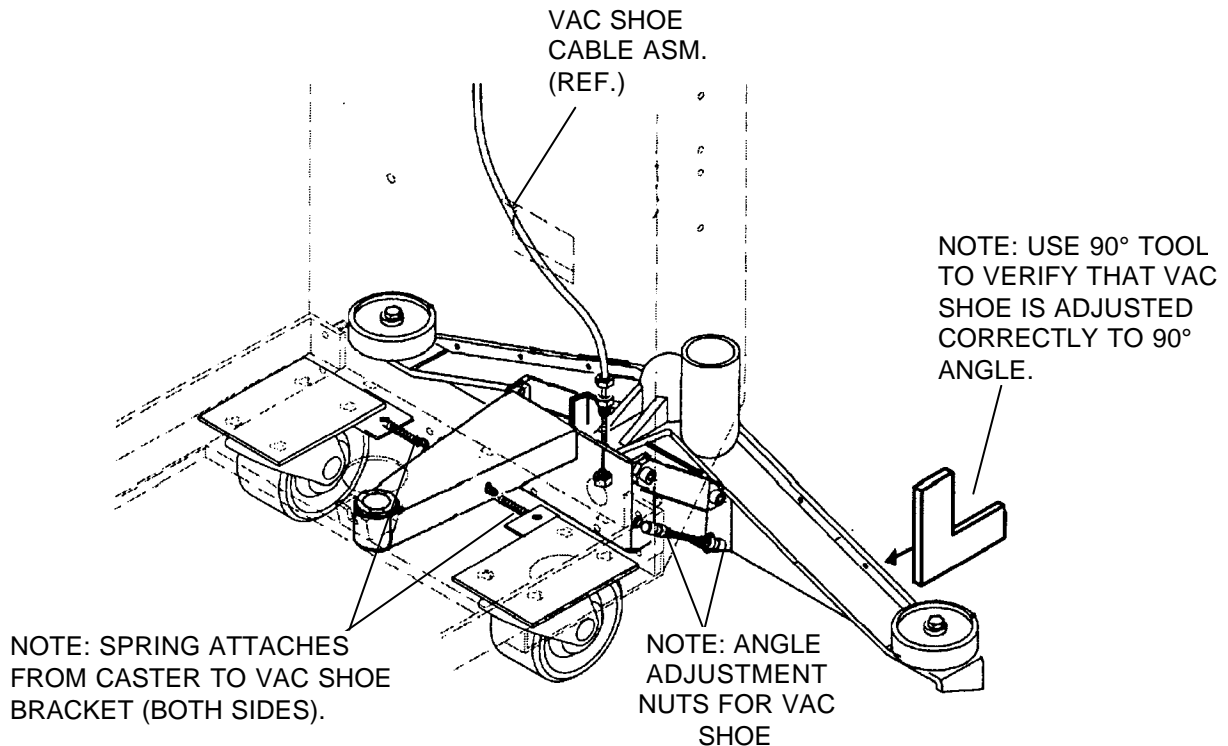
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	27761	1	COVER, REAR VOYAGER 2 TRIMMED		
2	54164	1	METER, 120 VAC HOUR NON-RESET		
3	72130	1	SWITCH, SPST 2-POSITION ROCKER		
4	66133	1	PIN, CLEVIS 3/16" X 7/8"L		
5	OPEN	-	-		
6	23100	1	CORD ASM, 12/3 PIGTAIL X 22" YLW		
7	57040	1	NUT, 1/2 NPT CONDUIT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

# VAC SHOE ASSEMBLY

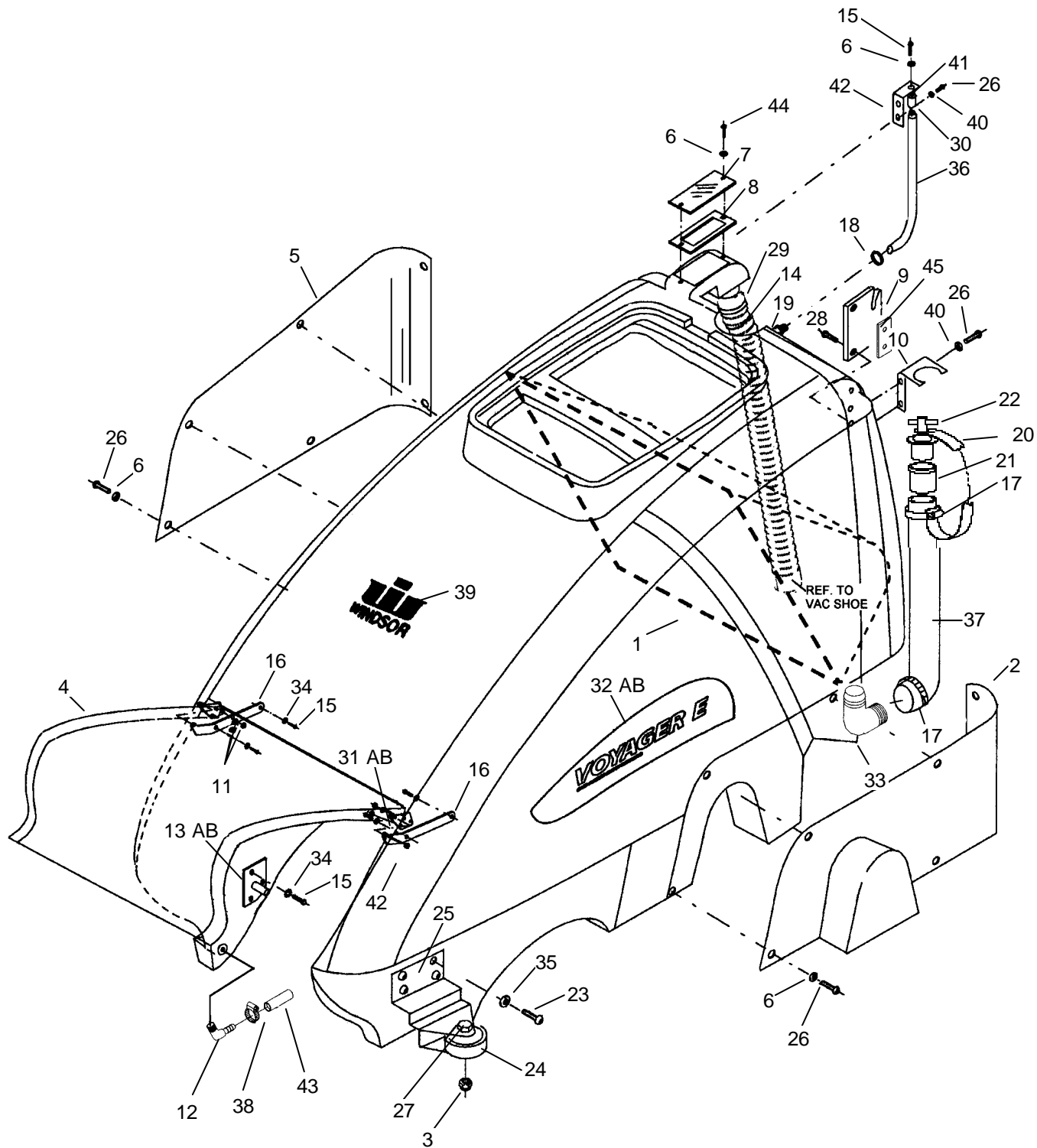


## VAC SHOE ASSEMBLY PARTS LIST

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	70351	13	SCREW, 10-32 X 3/8 HHTR W/STAR		
2	62391	1	PLATE, VAC SHOE COVER		
3	35124	1	GASKET, VGR VAC SHOE PLATE		
4	85031	1	VAC SHOE, VGRE 28"		
5	87003	4	WASHER, 3/8 ID X 7/8 OD SS		
6	89059	2	WHEEL, PT20 SQUEEGEE BUMPER		
7	70368	2	SCREW, 3/8-16 X 1-3/4 HHCS		
8	140197	1	BRACKET, VAC SHOE LINKAGE PLTD		
9	87025	9	WASHER, 1/4 LOCK EXT STAR		
10	70011	1	SCREW, 1/4-20 X 5/8 HHCS PLTD		
11	05070	2	ARM ASM, SQUEEGEE		
12	70298	4	SHOULDER BOLT, 5/16 X 3/8 L		
13	87029	4	WASHER, 5/16 FLAT SAE		
14	87030	8	WASHER, 3/8 ID X 3/4 OD NYL.		
15	57047	4	NUT, 1/4-20 NYLOCK		
16	140192	1	BRACKET ASM, VAC SHOE PIVOT		
17	70263	3	EYEBOLT, 8-32 X 1; 1/4 EYE PLT		
18	57026	2	NUT, 8-32 NYLOCK		
19	48031	1	KNOB, VAC SHOE ADJ		
20	87018	1	WASHER, #10 X 9/16 OD		
21	05003	2	ARM, LOWER VAC CONTROL 2		
22	57029	8	NUT, 1/4-28 HEX SS		
23	14029	4	BALLJOINT ASM, 1/4-28 HD		
24	73426	2	SPRING, EXT. .43D X 2.50L X .047W		
25	14820	2	BUSHING, FLANGED 3/4 ID X 7/8 OD		
26	87008	1	WASHER, 1/4 ID X 1-1/4 OD PLTD		



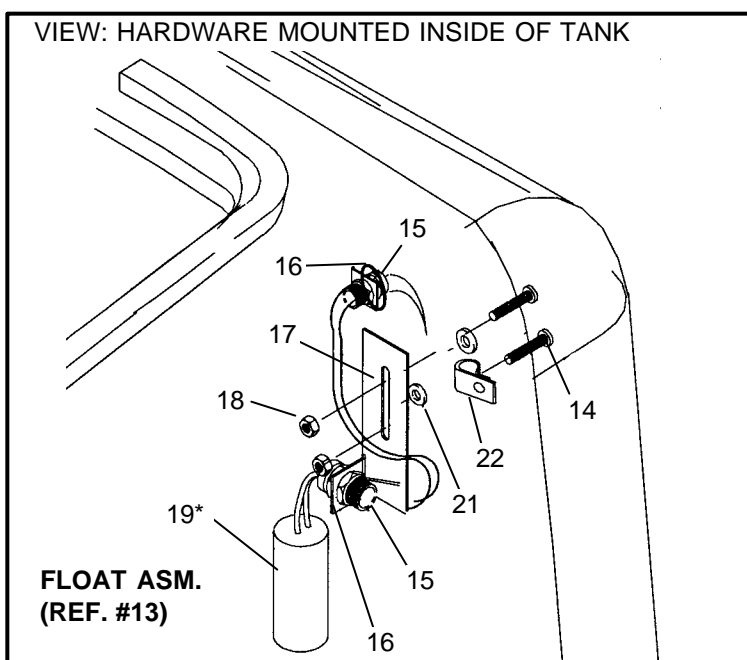
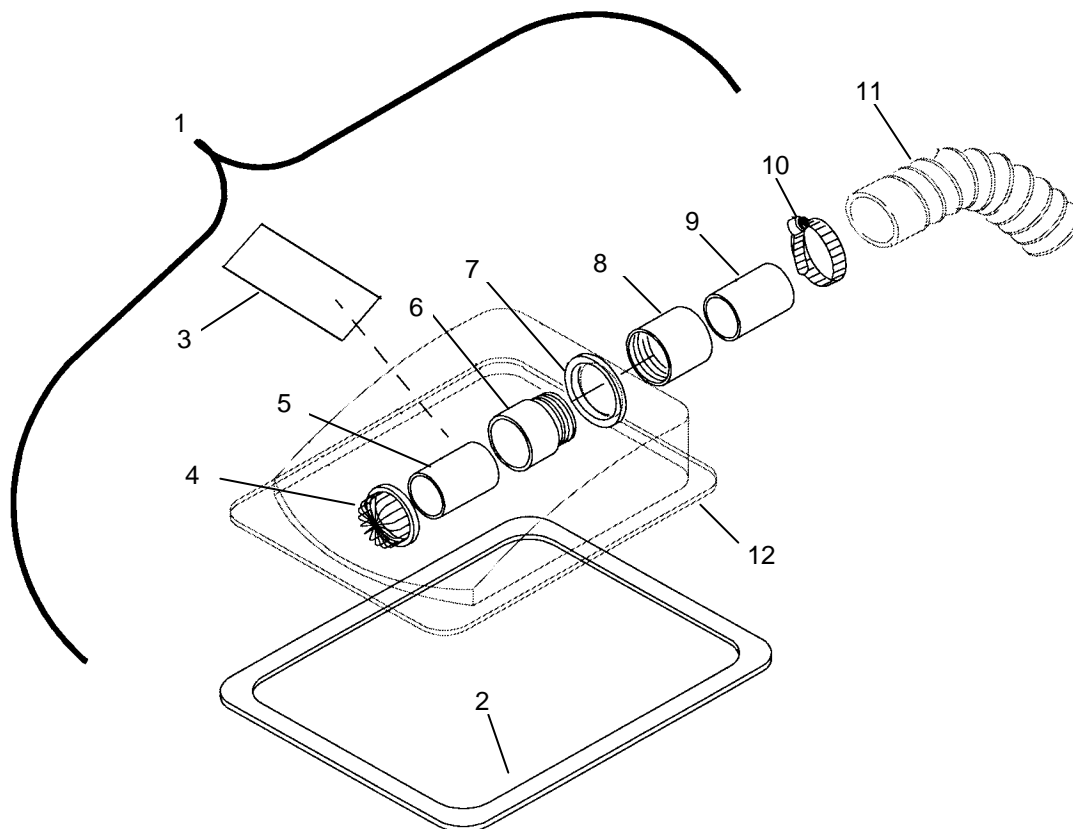
# TANK ASSEMBLY COMPONENTS



## TANK, COVER AND HARWARE PARTS LIST

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	75393	1	TANK ASM, VGRE W/DIAPHRAGM		
2	27472	1	COVER, LEFT TANK		
3	57022	2	NUT, 3/8-16 LOCK SS		
4	27684	1	COVER, FRONT TANK		
5	27473	1	COVER, RIGHT TANK		
6	87018	12	WASHER, #10 X 9/16 OD		
7	27557	1	COVER, SIGHT WINDOW		
8	35199	1	GASKET, VGR SIGHT WINDOW		
9	62345	1	PLATE, REAR FRAME TANK MOUNT		
10	140194	1	BRACKET, RECOVERY HOSE MNTG.		
11	57104	6	NUT, 10-24 W/STAR WASHER		
12	40090	2	HOSEBARB, 1/4 MPT X 3/8 45°		
13A	66251	1	PIVOT ASM, TANK RIGHT		
13B	66250	1	PIVOT ASM, TANK LEFT		
14	39476	1	HOSE ASM, 2" DIA.		
15	70011	5	SCREW, 1/4-20 X 5/8 HHCS		
16	41304	2	BRACKET, VOYAGER HINGE		
17	20064	2	CLAMP, 2.0" WORM GEAR X .312W		
18	20063	1	CLAMP, 1.75" WORM GEAR X .312		
19	40051	1	HOSEBARB, 3/4 MPT X 1" HOSE PVC		
20	78499	1	TETHER, DRAIN PLUG		
21	40019	1	HOSEBARB, 1.5 DOUBLE MCHND.		
22	66227	1	PLUG, DRAIN HOSE		
23	70481	6	SCREW, 1/4-20 X 3/4 BHCS		
24	89059	2	WHEEL, P120 SQG. BUMPER		
25	89231	1	BRACKET ASM, GUIDE WHEEL		
26	70088	14	SCREW, 1/4-20 X 1/2 FHMS PLTD		
27	14899	1	BRACKET, DRAIN HOSE PLUG		
28	70201	4	SCREW, 1/4-20 X 3/4 FHMS PLTD		
29	20046	1	CLAMP, 2.25" WORM GEAR		
30	57047	1	NUT, 1/4 X 20 NYLOCK PLTD		
31A	41305	1	HINGE, VGRE DOOR LEFT		
31B	41303	1	HINGE, VGRE DOOR RIGHT		
32A	50914	1	LABEL, VGRE LOGO LEFT		
32B	50913	1	LABEL, VGRE LOGO RIGHT		
33	40036	1	HOSEBARB, 1.5 MPT X 1.5		
34	87025	8	WASHER, 1/4 LOCK EXT STAR SS		
35	87151	6	WASHER, 1/4 SPLIT LOCK		
36	39408	1	HOSE, SOLUTION DRAIN W/ STAMP		
37	39472	1	HOSE, 1.5 DRAIN X 24"		
38	20042	4	CLAMP, 3/8 ID HOSE		
39	50500	1	LABEL, WINDSOR LOGO		
40	87016	4	WASHER, #10 LOCK EXT STAR		
41	40053	1	HOSEBARB, SOL. HOSE MTG		
42	57236	2	NUT, 10-32 HEX NYLOCK BLK		
43	39451	2	HOSE 3/8 NYLOBRAID X 11		
44	70114	2	SCR, #10 X 3/4 TYPE B		
45	66380	3	SPACER PLATE		

# DOME AND FLOAT ASSEMBLIES





## DOME AND FLOAT ASSEMBLIES PARTS LIST

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

## VOYAGER-E RECOMMENDED SPARE PARTS LIST

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

### MANIFOLD PARTS

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

### BRUSH PARTS

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

### FILTER PARTS

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

### ACCESSORY TOOLS

PART NO.	DESCRIPTION	SERIAL NO. FROM	NOTES:
<b>SPW</b>	SPOTTING WAND		
<b>89226</b>	DELUXE PROFESSIONAL WAND		
<b>HT</b>	HAND TOOL		
<b>DHTK</b>	DELUXE HAND TOOL KIT		
<b>DDH</b>	DELUXE DRY HAND TOOL		
<b>ESW</b>	EXTRACTION SPRAY WAND		
<b>FSW</b>	FASTRACTION SPRAY WAND		



# WINDSOR INDUSTRIES

## New Machine Warranty

### Limited Warranty

Windsor Industries, Inc. warrants new machines against defects in material and workmanship under normal use and service to the original purchaser. Any statutory implied warranties, including any warranty of merchantability or fitness for a particular purpose, are expressly limited to the duration of this written warranty. Windsor will not be liable for any other damages, including but not limited to indirect or special consequential damages arising out of or in connection with the furnishing, performance, use or inability to use the machine. This remedy shall be the exclusive remedy of the buyer. The warranty period is subject to the conditions stated below.

### 6 / 3 / 1 Warranty: 6 Years Polyethylene (PE) Housings, 3 Years Parts, and 1 Year Service Labor

Subject to conditions outlined below, Windsor Industries warrants rotationally molded PE housings and parts on all of its machines to be free from defects in material and workmanship, under normal use and service for six (6) years to the original owner.

Under this warranty we guarantee the performance of non-polyethylene parts and components to be free from defects and for up to three (3) years to the original end user. Parts replaced or repaired under this warranty are guaranteed for the remainder of the original warranty period. (See table below)

Service labor charges are covered for up to one (1) year from the date of purchase through authorized Windsor service provider. No travel coverage is extended for cord-electric models. See table below for each general product model warranty coverage.

Product	PE Housing & Parts	Non- PE Parts	Service Labor	Travel
Rider Scrubbers	6 years	3 years	1 years	6 Months
Rider Sweepers	6 years	1 year	1 years	6 Months
Walk Behind Scrubbers	6 years	3 years	1 years	6 Months
Walk Behind Sweepers	6 years	1 year	1 years	6 Months
Extractors	6 years	3 years	1 years	-
Polishers / Elec. Burnishers / GH	6 years	3 years	1 years	-
Wide Areas Vacuums	6 years	3 years	1 years	-
VacPak Vacuums	6 years	1 year	1 year	-
Air Movers / Dri-matic / TITAN™	1 year	1 year	1 year	-
Propane Burnishers / Strippers	-	2 year	1 year	-
Tracer/Flex Sweepers/Scrubbers	6 years	2 year	6 months	90 days

VERSAMATIC®	Brush motor, Vacuum motor, Belts – 3 years	All other parts – 1 year
SENSOR®	Vacuum motor, Belts – 2 years	All other parts – 1 year

### Product exceptions and Exclusions:

- Extractor brush motors, pump motors, **ALL** PC boards and electronics, **ALL** Vacuum motors (other than VERSAMATIC® and SENSOR®), **ALL** pumps, and FLEXSOL™ diaphragms carry a one (1) year parts and service labor warranty.
- The Onan® engines have three (3) year manufacturer’s warranty. The Honda® and Kawasaki® engines have two (2) year manufacturer’s warranty. **NOTE:** The engine warranty is administered through the engine manufacturer and must be repaired at an authorized service center.

Normal wear items and accessories including, but not limited to, belts, brushes, capacitors, carbon brushes, casters, clutches, cords, filters, finishes, gaskets, hoses, light bulbs, rectifiers, switches, squeegees, bearings, pulleys, relays, actuating cables, wheels, tires, propane tanks, and batteries will be warranted for manufacturing defects for 90-days from the purchase date.

The warranty commences on the purchase date by the original end user from an authorized Windsor agent, subject to proof of purchase. The Machine Registration Card must be completed and returned immediately at the time of purchase. If proof of purchase cannot be identified, the warranty start date is 90 days after the date of sale to an authorized Windsor distributor. Parts replaced or repaired under warranty are guaranteed for the remainder of the original warranty period.



## WINDSOR INDUSTRIES New Machine Warranty

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### **90 Day Warranty Extension Available**

Upon receipt of the Machine Registration Card, Windsor will extend by 90 days, from the date of purchase, all items included under the one-year provision. This applies only to one-year items and does not include 90-day wear items.

### **This Warranty Shall Not Apply To:**

1. Any product that has been subject to abuse, misuse, neglect or unauthorized alteration (including the use of incompatible or corrosive chemicals or overloading of capacity).
2. Products that have experienced shipping or freight damage.
3. Repairs necessary to correct any failure due to improper pre-delivery service and inspection by the selling dealer.
4. Excessive time for cleaning units in preparation for repair.
5. Any repairs resulting from poor initial service work or improper diagnosis.
6. Tune-up parts such as plugs, plug wires and condensers.
7. Any design alterations performed by an organization not authorized or specified by Windsor.
8. Battery and charger warranties are handled directly with the manufacturer (Trojan® batteries and Lester® chargers).
9. High-pressure washing.
10. Electrical components exposed to moisture.

If difficulty develops during the warranty period, contact the authorized Windsor agent from whom the product was purchased. Windsor Industries, Inc. may elect to require the return of components to validate a claim. Any defective part to be returned must be shipped freight prepaid to an authorized Windsor Distributor/Service Center or to the Windsor factory.

### **Use Of Parts Not Approved By Windsor Industries, Inc. Will Void All Warranties**

This warranty is valid only for all products sold after July 1, 1995. A product sold before that date shall be covered by the limited warranty in effect at the date of sale to the original purchaser.