INSPECTION
Carefully unpack and inspect your extractor 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.

ELECTRICAL
This extractor operates on a standard 15 amp, 115 volt AC circuit. Voltages below 105 volts or above 125 volts could cause serious damage to motors.

WARNING: Make sure you are using the correct voltage as specified on nameplate before connecting machine power cord to outlet.

GROUNDING INSTRUCTIONS
To protect the operator from electric shock, this machine must be grounded while in use. The machine is equipped with a standard three-conductor power cord and three-prong grounding type receptacle. The vacuum power plug must be connected to an electrical ground the proper grounding type receptacle. The vacuum power cord to outlet is shown in Fig. A. If a receptacle is not available use an adapter as shown in Fig. C. This adapter must be connected to an electrical ground in the electrical outlet, using metal screw as shown in Fig. B.

WARNING: To avoid electric shock, use indoors only.

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 in length. The ESCORT is equipped with a 50 ft. 14/3 power cord.

EQUIPMENT SETUP
NOTE: Attach strain relief/cord retainer to power cord.

1. Make loop in power cord approximately 12" from twist lock receptacle end.
2. Slide cord loop through slot in retainer and over retainer arm. Pull slack cord back through slot to secure.

OPERATING THE ESCORT
NOTE: Vacuum the carpet and make sure it is cleared of surface debris before starting the cleaning process.

NOTE: Pump Priming: If the machine has been in storage or the pump runs dry—a air entrapment within the solution line can occur. This is alleviated by depressing the tip of the auxiliary nipple momentarily while the pump is running.

1. Dispense solution by using either the continuous flow switch or large open area or the intermittent switch for cleaning smaller, more confined areas. If machine is equipped with power brush. Switch on power brush, depress pedal to lower brush head assembly. Walking backwards move the machine over the area to be cleaned. Turn solution off about 8 inches before the end of each pass to insure all solution is removed from the carpet. When through cleaning depress pedal to release brush head assembly. Switch to vacuum and brush switches.

WARNING: Do not leave power brush running when machine is not in cleaning mode. Damage to carpet could occur.

2. As you work, check to see if there is a foam build-up in the recovery tank. If there is a foam build up, turn the machine off and add the recommended amount of a defoaming solution to the recovery tank.

NOTE: Never put defoamer in the solution tank.

WARNING: An overflow of foam into the vacuum intake can damage the vacuum motor. Always be aware of the waste water level in the recovery tank. When the tank is about three-quarters full, turn off the machine, remove drain hose from keeper and empty dirty water into bucket or floor drain.

3. When machine runs out of cleaning solution, turn off the machine and refill the solution tank. Turn machine on and continue cleaning process.

PERIODIC MAINTENANCE
1. Twice a month flush a white vinegar solution (one quart vinegar to one gallon of hot water) or an ant-brown- ing solution (mixed as directed) through the ESCORT. This will help prevent buildup of alkaline residue in system.
2. If spray jets become clogged, remove the spray tips, wash them throughly in vinegar and blow dry.

NOTE: Do not use pins, wires, etc. to clean jets as this will destroy spray pattern.
3. If spray jets continue to drip after solution pump is turned off, the solenoid valve will need cleaning. (See Maintenance on Solenoid Valve)

4. Periodically inspect all electrical cables and electrical on your machine. Because the electrical cable will be wet at some time, the cable must be well insulated and cabl connector screws kept tight. If the cable insulation is broken or frayed, repair or replace it immediately.

Do not take chances with an electrical fire or shock.

**PROTECT FROM FREEZING**

If it becomes necessary to store the machine in temperatures below 40°, the pumping system, valves, etc. must be protected from freezing with a methyl hydrate (window washer) antifreeze solution.

**NOTE:** Do not use ethylene glycol or cooling system antifreeze.

1. Add window washer antifreeze to the solution tank. Turn on pump until solution sprays out of jets. Remove unused portion of antifreeze from tank.

**MAINTENANCE INSTRUCTIONS FOR ESCORT AND ESCORT WITH POWER BRUSH**

**WARNING:** Remove machine power cord from electrical source before making any repairs or adjustments to machine.

**TO ACCESS VAC MOTOR/PUMP ASSEMBLY**

Remove solution from both tanks.

1. SOLUTION TANK
   - Attach the 4 ft. vac hose, supplied with machine, to dome. Switch on vac motor and vacuum unused solution into recovery tank.

2. RECOVERY TANK
   - Remove drain hose from keeper and empty solution into bucket or floor drain.

3. To inspect motor brushes, remove brush holder assembly. Brushes should be replaced when worn to $3/8$ inch or after about 250 operating hours. After second brush replacement, the armature commutator should be checked for pitting and concentricity. Vac motors can be repaired but such repairs should be made by a qualified motor repair shop.

**NOTE:** When reinstalling tank vac motor make sure the vac recovery hose is routed above exhaust horn on vac motor.

**CAUTION:** When installing solenoid valve be sure that solution flow direction is toward manifold.

**PUMP ASSEMBLY**

**NOTE:** On power brush machine, removal of brush holder is required to access pump. (See Power Head Removal)

1. Remove (2) tank mounting bolts from rear chassis panel.

2. Lay machine on right side and remove (4) bolts holding pump mounting plate.
3. Disconnect pump motor wire leads. Disconnect solution hoses from pump head and remove pump. Refer to pump drawing for replacement parts.

CAUTION: When replacing hose barbs on pump head — DO NOT OVERTIGHTEN — as this could crack intake and discharge ports in pump head.

VAC SHOE
1. Remove (4) bolts holding chassis and pump plate to tanks. (Refer to Photos 3 & 9)
2. Remove (3) bolts holding vac shoe/bracket to solution tank. Repair or replace as required.

NOTE When reinstalling a new vac shoe, proper alignment of shoe to floor must be made.
1. Install vac shoe and tighten screws. Attach chassis and pump plate assembly to tank and tighten screws.
2. Set machine upright on a flat-level surface (a desk top works well) and check vac shoe for level contact on the flat surface.
3. Make adjustment at axle leveling screws by tightening /loosening both of the lock nuts until shoe is level.

TRANSPORT WHEELS
1. Remove screw and hub cap and slide wheel off axle. Before reinstalling wheel, clean axle and apply light coating of silicone lubricant.

VAC MOTOR EXHAUST FILTER
1. Remove (4) bolts holding chassis to tanks. (Refer to Photos 3 & 9)
2. Lay machine on side. Pull chassis from tanks to expose exhaust muffler.
3. Remove hex nut from PVC muffler. Repair or replace as required.

BELT ADJUSTMENT
1. When servicing brush motor or brush assembly always check belt for proper tension. The belt should be tight to prevent it from slipping on cogged pulleys. To tighten belt, loosen motor mounting nuts and rotate motor rearward just enough to tighten belt.

BRUSH/BEARING ASSEMBLY
1. Remove belt guard.
2. Remove screw from each end of brush shaft and remove brush assembly from housing. Replace brush or bearings as needed.

SWITCH CONTROL PANEL
1. Remove (2) screws holding switch housing to handle. (EPB housing shown)
2. Replace switches as required.

SERVICING POWER HEAD...BRUSH MOTOR/RECTIFIER
1. Tilt machine back to rest on handle.
2. Remove (3) screws holding motor and plate to housing. Repair/replace motor rectifier as needed.

POWER HEAD LIFT CABLE
1. Remove recovery tank/vac motor assembly.
2. Tilt machine back to rest on hande. Remove bolt holding cable to lift bracket and 2 power head pivot bolts.
3. Remove guide pulley bracket assembly and remove cable from pulley.

4. Remove pedal and bracket assembly (4 screws). Replace cable as required.

Reinstall pedal assembly and power head assembly. To adjust cable: Depress cable so that power head almost touches vac shoe housing. Raise and lower power head with pedals to make sure that head will "lock" in UP position when pedal is depressed.

POWER HEAD REMOVAL
1. Tilt machine back to rest on handle. Remove brush motor and plate assembly. (See Photo 15)
2. Disconnect power cord from rectifier. Loosen strain relief and pull cord from housing. (See Photo 16)
3. Remove cable from lift bracket and (2) pivot bolts. (See Photo 20)
4. Disconnect solution hose from elbow and lay head aside.

PUMP ASSEMBLY

WIRING DIAGRAM EPB CHASSIS ASSEMBLY

WIRING DIAGRAM ESC 115V

CONTROL PANEL END

PUMP PARTS LIST

<table>
<thead>
<tr>
<th>KEY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>53118</td>
<td>Motor 115V (for 65067)</td>
</tr>
<tr>
<td>1A</td>
<td>53119</td>
<td>Motor 230V (for 65070)</td>
</tr>
<tr>
<td>2</td>
<td>67071</td>
<td>Rectifier/Cap Set Asm. 115/230V</td>
</tr>
<tr>
<td>3</td>
<td>47075</td>
<td>Fan/Blower Asm.</td>
</tr>
<tr>
<td>4-5-5</td>
<td>47076</td>
<td>Kit, Base Plate</td>
</tr>
<tr>
<td>7-8-9-11</td>
<td>47077</td>
<td>Kit, Pump Repair (for 65067 &amp; 65070)</td>
</tr>
<tr>
<td>12-13</td>
<td>47078</td>
<td>Pump Housing</td>
</tr>
<tr>
<td>13A</td>
<td>65071</td>
<td>Pump Head Asm. 115V (for 65067)</td>
</tr>
<tr>
<td>13B</td>
<td>65072</td>
<td>Pump Head Asm. 230V (for 65070)</td>
</tr>
</tbody>
</table>
TANK ASSEMBLY (ESC/EPB)
CHASSIS ASSEMBLY (ESC/EPB)

ESWEPB CHASSIS

<table>
<thead>
<tr>
<th>KEY</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>700085</td>
<td>Scr., 1/4-20 x 1/2 PHMS</td>
</tr>
<tr>
<td>2</td>
<td>27258</td>
<td>Cap., Wheel Hub</td>
</tr>
<tr>
<td>3</td>
<td>8BD44</td>
<td>Wheel, Gray 10&quot; x 1.75 W</td>
</tr>
<tr>
<td>4</td>
<td>76162</td>
<td>Scr., 10-32 x 3/8 PHMS</td>
</tr>
<tr>
<td>5</td>
<td>87016</td>
<td>Washer, #10 Star</td>
</tr>
<tr>
<td>6</td>
<td>57047</td>
<td>Nut, 1/4-20 Lock</td>
</tr>
<tr>
<td>7</td>
<td>57038</td>
<td>Nut, 1/2 NPT Flange</td>
</tr>
<tr>
<td>8</td>
<td>70020</td>
<td>Scr., 1/4-20 x 1/2 PHMS</td>
</tr>
<tr>
<td>9</td>
<td>87025</td>
<td>Washer, 1/4 Star</td>
</tr>
<tr>
<td>10</td>
<td>87013</td>
<td>Washer, 1/4 ID x 5/8 OD</td>
</tr>
<tr>
<td>11</td>
<td>87018</td>
<td>Washer, #10 Star</td>
</tr>
<tr>
<td>12</td>
<td>700083</td>
<td>Scr., 10-32 x 1/2 PHMS</td>
</tr>
<tr>
<td>13</td>
<td>39250</td>
<td>Hose, 3/8 Rubber x 12&quot;</td>
</tr>
<tr>
<td>14</td>
<td>20042</td>
<td>Clamp, 3/8 Hose (O-Size)</td>
</tr>
<tr>
<td>15</td>
<td>40029</td>
<td>Hosebarb, 1/4 MPT x 1/8</td>
</tr>
<tr>
<td>16</td>
<td>73239</td>
<td>Spacer, Valve</td>
</tr>
<tr>
<td>17A</td>
<td>84050</td>
<td>Valve, 1/2 NPT</td>
</tr>
<tr>
<td>17B</td>
<td>84051</td>
<td>Valve, 3/4 NPT</td>
</tr>
<tr>
<td>18</td>
<td>31028</td>
<td>Elbow, 1/8 NPT</td>
</tr>
<tr>
<td>19</td>
<td>30949</td>
<td>Hose, 3/8 Rubber x 12&quot;</td>
</tr>
<tr>
<td>20</td>
<td>68210</td>
<td>Plate, Pump</td>
</tr>
<tr>
<td>21</td>
<td>57081</td>
<td>Nut, 1/2-20 Cвечо J</td>
</tr>
<tr>
<td>22A</td>
<td>55067</td>
<td>Pump, 115V 100 PSI By-Pass</td>
</tr>
<tr>
<td>22B</td>
<td>65070</td>
<td>Pump, 230V 100 PSI By-Pass</td>
</tr>
</tbody>
</table>

WINDSOR LIMITED WARRANTY

WINDSOR warrants to the original purchaser/user that this product is free from defects in workmanship and materials under normal use and service for a period of one year from date of purchase. WINDSOR will at its option, repair or replace without charge, except for transportation costs, parts that fail under normal use and service when operated and maintained in accordance with the applicable operating and instruction manuals. This warranty does not apply to normal wear of items whose life is dependent on their use and care, such as cords, switches, hoses, rubber parts, electric motor parts, etc.

The limited warranty is in lieu of all other warranties expressed or implied and releases WINDSOR from all other obligations and liabilities. It is applicable only in the USA and Canada, and is intended only to the original user/purchaser of this product. WINDSOR is not responsible for costs for repairs performed by persons other than those specifically authorized by WINDSOR. This warranty does not apply to damage from transportation alterations by unauthorized persons, misuse or abuse of the equipment, use of noncompatible chemicals, or damage to property or loss of income due to malfunctioning of the product.

If a problem develops with this machine, you should contact the dealer from whom it was purchased.

WINDSOR INDUSTRIES, INC., 1351 W. Stanford Ave., Englewood, CO 80110 USA * 303/782-1800 * FAX 303/782-0817