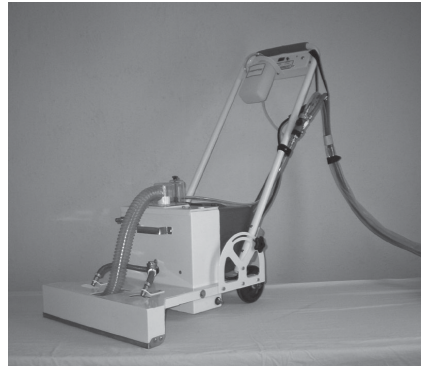
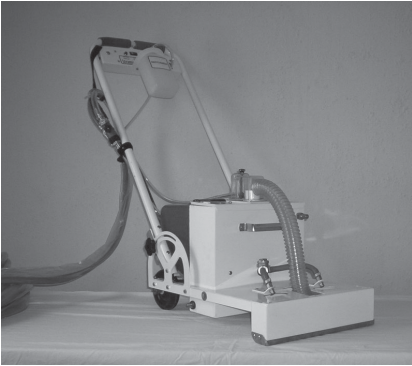


Steamin Demon *XL15 & XL20* High-Flow Carpet Cleaning System

Operating Manual



Steamin Demon™

For Assistance Call Toll-Free

1-888-413-6748

(Fax: 740-587-1394, Email: info@steamindemon.com)

NOTES

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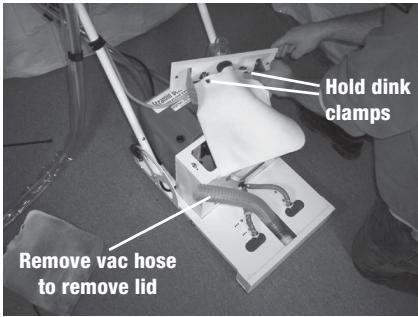


Figure 2: Installing filter bag

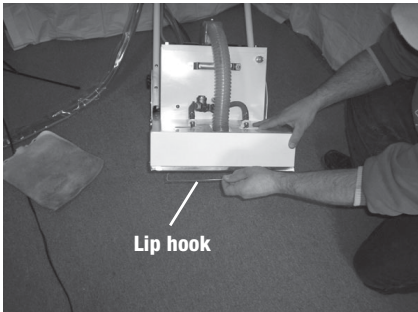


Figure 3: Cleaning vacuum shoe

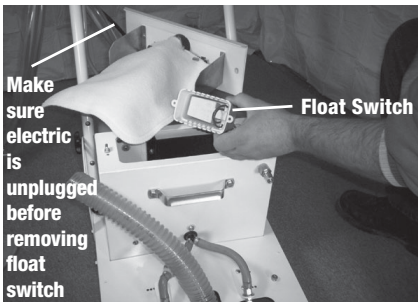


Figure 4A: Float switch removed from recovery tank

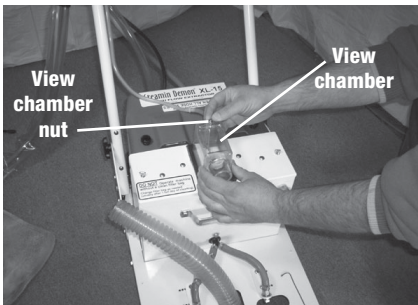


Figure 4B: View chamber

Section One

I. Pre-Extraction

A. Cleaning the Machine- To ensure proper machine performance you must either at the end or the beginning of each day replace the filter bag (fig. 2) and clean the vacuum shoe (fig. 3). Once a week you need to clean the float switch (fig. 4A), and the view chamber (fig. 4B). If you are cleaning carpet with greasy or sandy soil, you may need to change the filter bag more often. *Filter bags have to be replaced once they are completely blocked. You can tell this by the pitch of the vacuum motor. When you hear the rpms of the vac motor go up and stay up, immediately replace filter.* Additional instructions on how to clean these areas can be found on page 8.

B. Chemicals

1. Fill the defoamer bottle, attached to the machine, 3/4 full with Steamin Demon Bubble Buster Defoamer (fig.5).
2. Fill the Dial a Mixer Sprayer with Demon Clean Carpet Prespray (fig. 6). Set the Dial A Mix Sprayer according to the instructions on its label. In general place the setting lower than you would guess.
3. Fill spotting bottle with water and add 1 oz. of Demon Clean.

C. Sink Fittings- Each machine comes with three sink fittings, an extra pump impeller, a lip hook, a caddy, a spotting bottle, a quart of prespray, a quart of defoamer, a 33 foot prespray hose with a Dial-a-Mix sprayer (fig. 7A and 7B). The sink fittings convert the aerator threads on the faucet to garden hose threads.

1. To install sink fittings, use your hand or a pair of pliers to remove the aerator from the faucet. Avoid using plastic faucets or spigots. Then install the corresponding sink fitting on the

faucet. Make sure when you remove the aerator its washer comes out with it. Sometimes the aerator comes out but the washer stays in the faucet. To remove the washer, insert your finger in the faucet and work the washer out (fig. 8).

2. The Standard Sink Fitting (fig.9) has both inner and outer threads. It will fit about ninety percent of all faucets.

3. The Standard Extended Sink Fitting (fig. 7A) has the same male thread as the Standard Sink Fitting. These threads, however, are extended above the fitting. This fitting is used on recessed faucets commonly found in bathrooms.

4. The 13/16 Male Fitting is the third most common fitting (fig. 7A).

5. The 13/16 Female and 3/4 Female Sink Fittings are accessories rarely used, but will fit into some old gooseneck faucets.

6. Permanent Sink Fitting- These are offered as accessories They are nice for facilities that do not want to mess with installing and removing sink fittings. They permanently install on the faucets, and all you need to do to connect to the faucet is remove the aerator.

7. For garden hose-type spigots, sink fittings aren't necessary. The garden hose swivel nut on the end of the red pressure hose connects directly to the garden hose spigot.

8. If connecting to a water heater, open water heater valve to drain any debris out of the bottom of the water heater before connecting your red pressure hose to it.

D. Unrolling Hoses- Place one arm through the middle opening of the hoses (fig. 10) and feed the hose out as you walk away from the machine toward the sink.

Hint: New hoses take about a week to break in. If you roll and unroll the hoses the same way every time they will break in quicker and be easier to work with.



Figure 6: Filling pre-spray bottle with Demon Clean >>>

<< **Figure 5:** Filling defoamer bottle with Bubble Blaster

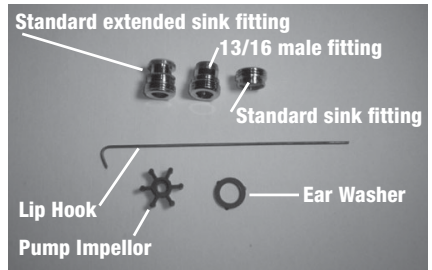
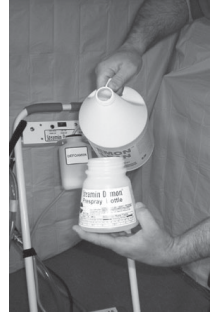


Figure 7A: Contents of caddie

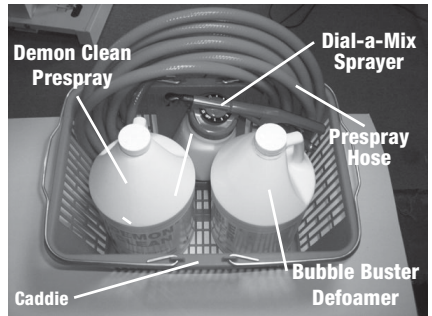


Figure 7B: Contents of caddie

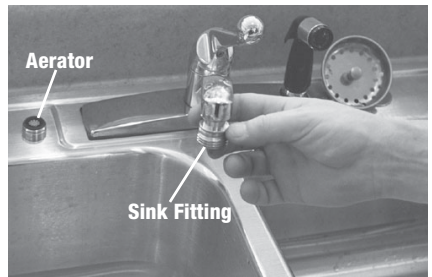


Figure 8: Attaching sink fitting to faucet

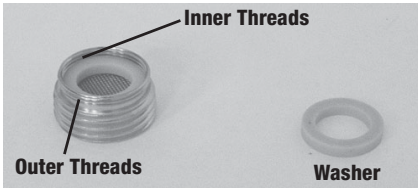


Figure 9: Inner and outer threads of Standard Fitting

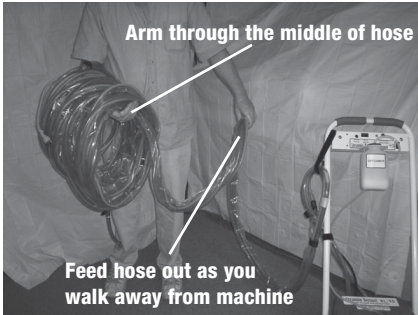


Figure 10: Unrolling hoses

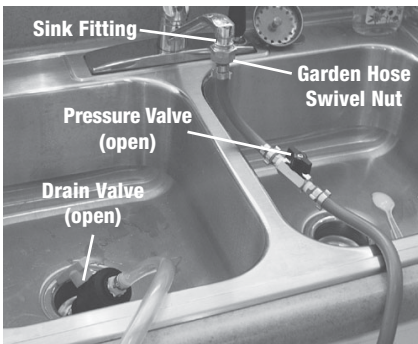


Figure 11: Hoses hooked to sink

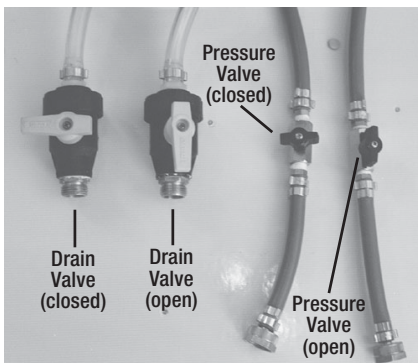


Figure 12: Hose valves (open and closed)

E. Hooking the Machine to the Faucet

1. Tighten the garden hose swivel nut (fig. 11) on the sink fitting. Turn hot water valve all the way open and open the pressure valve (fig. 11). If you are doing commercial carpet and are working off a small water heater, turn both the hot and cold water on.
2. Open drain valve and place in sink, toilet, or other drain (fig. 11 & 12).
3. Plug electric cord into a grounded three pin outlet.

Important: The most common mistake made with this machine is forgetting to open all the valves. Remember that there are valves at both ends of each hose (pressure and drain). If any of the valves are closed, the machine will not work .

F. Prespraying and spotting carpet

1. First unroll the prespray hose. Then snap the hose quick connect into the prespray plug (fig. 13). Make sure the hose is completely uncoiled before snapping it into the prespray plug (fig. 13 and 14).
2. When you are prespraying carpet concentrate prespray on the main traffic areas and spots. (fig. 14) Prespray spots directly and work in the chemical by rubbing the spot with your foot. Once done prespraying carpet disconnect prespray hose form the machine, release the pressure from the hose and place in the caddy (fig. 15).
3. Use a grooming brush to work the chemical into the carpet and to loosen the heavy soil.
4. With stubborn stains you may need to boost your detergent. You can do this with your spotter. Spray the stain with your spotter, and work in with your foot.

II. Extraction Procedures

A. Before You Begin- Before starting your machine, familiarize yourself with the control panel (fig 16). This panel has five switches.

1. Vacuum switch: This rocker switch turns your vacuum motor on and off. It should remain ON during the entire extraction process.

2. Defoamer Momentary Toggle Switch: This switch will be used on an “as needed” basis during the extraction process.

3. Jet Spray Switches: For your convenience, there are three jet spray switches. Two on the front control panel and one on the back. On the front control panel there is a rocker switch and a push button switch. On the back control panel there is one push button switch (fig. 18). These switches control the water flow to the carpet.

B. Setting Handle - For your convenience the XL's handle is both adjustable and reversible. *To adjust the handle* just loosen the two star fasteners (fig 17) and retighten at the proper height (usually belt high or below). *To reverse the handle* loosen the two star fasteners, detach the Velcro tie and swing the handle all the way over. Retighten the star fasteners. Now you are in the push ahead position (fig 18).

C. Cleaning Carpet

1. Turn vacuum switch on.
2. Position your machine for a cleaning pass (fig. 19). Keep both your hands on the machines handle.
3. How to make a cleaning pass. Turn one of the jets spray switches ON and walk the machine backwards working the hoses with your feet. Apply enough upward lift on the handle to keep the nose of the ma-

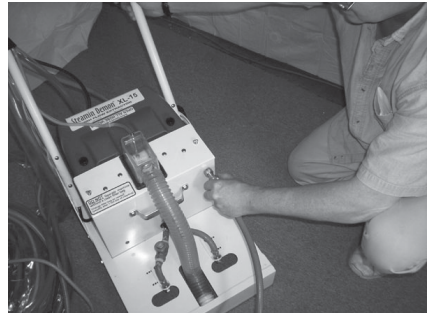


Figure 13: Snapping in prespray hose

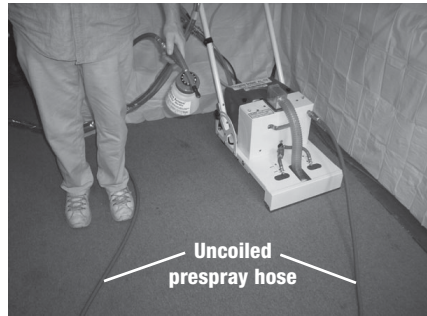


Figure 14: Prespraying carpet

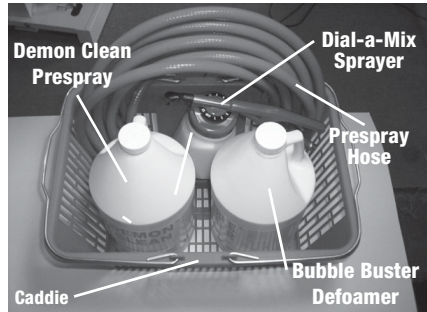


Figure 15: Caddy with chemical & hose

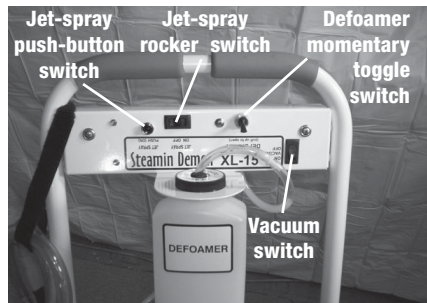


Figure 16: Control panel

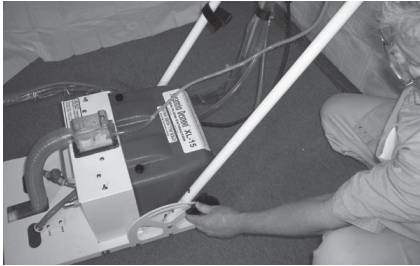


Figure 17: Loosening star fastener to adjust handle height

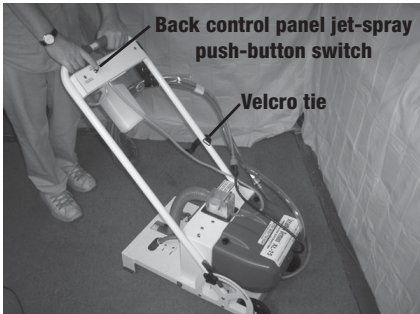


Figure 18: Push-ahead handle position

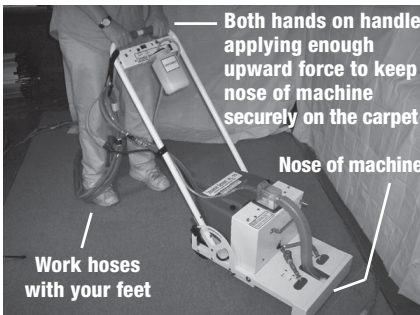


Figure 19: Walk-behind cleaning position

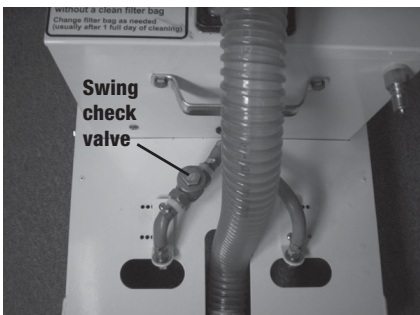


Figure 20: Swing check valve

chine firmly on the carpet (fig. 19).

4. At the end of your cleaning pass, turn jet spray switch OFF and continue walking the machine backwards a few inches. This will allow the machine to pick up any excess moisture.

5. Reposition the machine for the next pass (overlap approximately two to three inches) and repeat steps three and four.

6. During your cleaning pass, if you notice a lot of soap residue in the view chamber, pull the defoamer switch up for a second or more. If you ever hear the RPM's of your vacuum motor decrease or see water shooting out from under the machine, pull the defoamer switch up. This allows defoamer to be drawn into the recovery tank and kill the soap suds.

7. When rinsing spots, rinse spot 3-4 times with extractor followed by a slow dry pass.

D. Cleaning Carpet as Push-Ahead Machine

1. Reverse handle as shown in figure 18.
2. Turn vacuum motor on.
3. Push jet spray button on (fig 18) and walk behind machine, forward. Push down slightly on the handle as you walk the machine forward. This keeps the vacuum shoe securely on the carpet.

E. Swing Check Valve - Each machine comes with one swing check valve.

This keeps the jets from dripping. Occasionally this will get stuck and only one of the jets will work. To open the valve, just tap with a hammer or other tool. If this doesn't work, just place your finger over the jet that is spraying and turn the jet spray switch on. This should free up the valve (fig 20).

IMPORTANT: Many carpets have tremendous amounts of soap residue in

them. This machine is very efficient at removing these residues. To protect your vacuum motor from the soap suds that can build up in your recovery tank, periodically pull the defoamer switch up.

IMPORTANT: When using extra hoses or really hot water, your discharge pump may run hot and automatically shut off. A protective thermal switch within the pump is responsible for this. If this should occur, simply remove the thumb knobs (fig. 21) and push the top of the engine compartment cover back a couple of inches. This allows the heat inside the engine compartment to vent, thus decreasing the temperature inside the engine compartment housing.

IMPORTANT: For flood restoration or work that requires more than 200 feet of hose, and optional dual discharge pump is available. This internally mounted discharge pump will increase your pump's discharge capability about 50 to 80 percent. Do not operate the Steamin Demon in standing water, **ELECTRICAL SHOCK WILL OCCUR.**

F. Hose Techniques- The hoses on your machine provide it with a high volume of water supply and discharge capabilities. They can also get in your way. Here are some tried-and-true techniques that will be helpful to you.

1. Always try to work away from your hoses.
2. The hose strap (fig. 22) on the handle allows you to switch the hoses from one side of the machine to the other.
3. During extraction, keep both your hands on the handle and work the hose with your feet (fig. 19).

G. Unhooking & Cleaning the Machine

1. Tilt the machine to the RIGHT (fig.

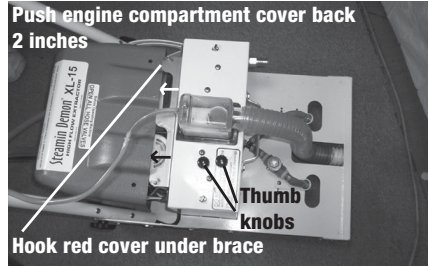


Figure 21: Hot pump

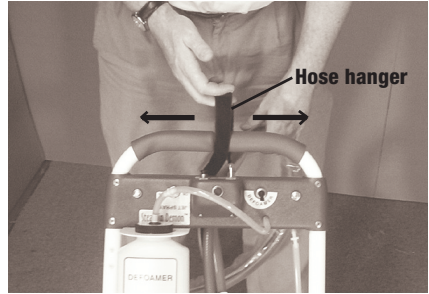


Figure 22: Moving hose hanger from one side of handle to the other.



Figure 23: Tilting machine to the right to manually activate discharge pump

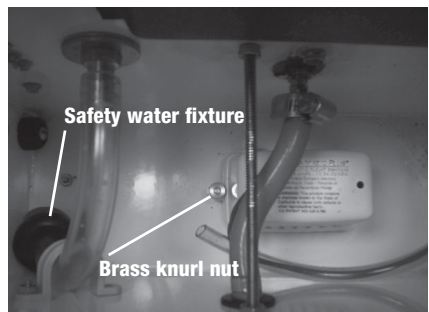


Figure 24: Brass knurl nut and safety water fixture

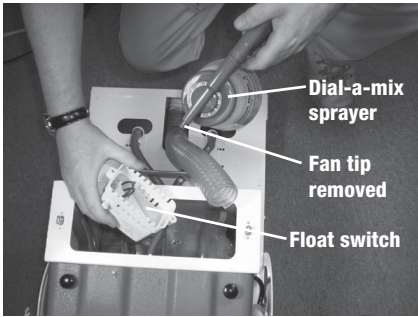


Figure 25: Cleaning float switch (unplug machine before doing this)

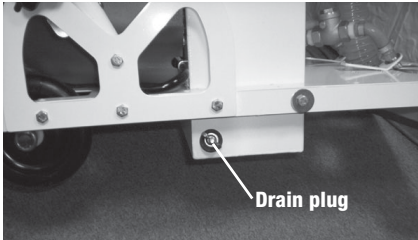


Figure 26: Drain plug



Figure 27: Rolling up hoses



Figure 28: 50 ft. section of extra hose

23) to manually activate the discharge pump. This will drain the recovery tank of any remaining dirty water.

2. Unplug the electric cord.
3. Replace bag filter (fig 2).
4. Once a week clean the float switch and the safety water filter. First, unscrew the brass knurl nut (fig.24) and lift the float switch up. Then spray out any debris that has built up inside the float switch with your Dial-a-Mix sprayer (fig. 25). Replace when clean.
5. If it is needed remove the drain plug (fig. 26) and spray out the bottom of the recovery tank with the Dial-a-Mix sprayer.
6. Clean the vacuum shoe with the lip hook provided with each machine (fig. 3).
7. Clean the exterior of the machine with a damp cloth and glass cleaner.
8. Unscrew the pressure hose (the red hose) from the sink fitting. Open then close the pressure valve to release excess pressure.
9. Close the drain valve (on the clear hose).
10. Remove the sink fitting from the faucet and replace the aerator.
11. Roll the hoses (fig. 27). Always roll the hoses in the same direction, either clockwise or counter clockwise. If you do they will break in nicely for you.
12. If you store the machine make sure that it is in a place that will not freeze. Freezing this machine will damage it.

III. Hoses

A. Attaching Extra Hoses- Extra hoses are sold in 50 foot sections (fig.28) with valves on all the ends. To attach just align the pressure and drain hoses and tighten the corresponding garden hose fittings. Make sure all valves are open before operating.

B. Hose Reels- Hose reels may be purchased with the machine (fig 29). They come in pairs one hose reel for the pres-

sure and one hose reel for the drain hose. These hose reels can hold 100 feet, 150 feet, 200 feet, and 250 feet of hose depending on your needs. (Any facility consistently using 200 ft. or more should consider these hose reels.)

IV. Hand Tool Attachments

These attachments may be purchased with your machine. They consist of 25 feet of vacuum and pressure hoses. Separate heads are available for stair and furniture cleaning. A wand attachment is also available. To connect the hand tool attachment to the machine:

- A. Remove clear hose from view chamber (fig. 30).
- B. Push hand tool hose cuff on view chamber.
- C. Snap the red pressure hose into the plug on the front of the machine.
- D. For stairs, just prespray with your Dial-A-Mix Sprayer and rinse with Stair Tool.
- E. For furniture, gently mist with your spotting bottle and rinse with your Furniture Tool.

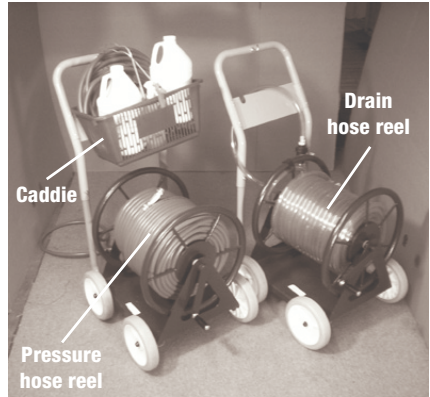


Figure 29: Hose reels

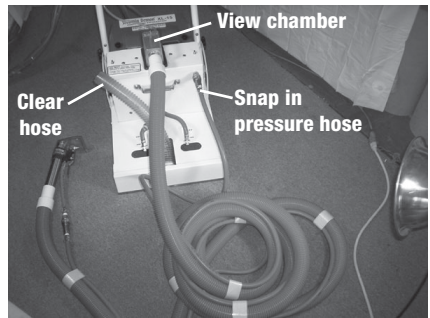


Figure 30: Stair/upholstery tool attachment

SECTION TWO: WARRANTY

Steamin Demon Company conditionally warrants all major structural parts (recovery tank, filters, axle, handle, internal braces, stainless steel lips) and all nonstructural, plastic and electrical parts for its XL15 and XL20 machines, for a period of one year from date of purchase. In addition, if Steamin Demon Company's Demon Clean Prespray and Bubble-Buster Defoamer only are used in the chemical injection and defoamer injection systems, those systems will be warranted for the life of the machine. This warranty includes the cost of shipping warranty-replacement parts or machines to the distributor or end-user, but does not include the cost of shipping parts or machines to the factory for inspection or repair. The warranty is subject to the conditions listed below:

- This warranty is made only to the original purchaser and will only be honored when the machine is used in accordance with the directions and instructions described in the Operation and Maintenance Procedure Manual.
- This warranty does not include any product showing signs of abuse, misuse, improper voltage, shipping damage, lack of proper maintenance, alterations, use of nonapproved chemicals (call us), gaskets, finishes, polycarbonate, fire, flood, excessive wear or other causes beyond Steamin Demon Company's control.

SECTION THREE: TROUBLE-SHOOTING

Problem	Cause	Solution
Recovery tank will not drain	<ol style="list-style-type: none"> 1. Closed drain valve(s) 2. Dirty float switch 3. Hot pump 4. Kinked drain hose 5. Pump not priming 6. Bad pump or float switch 	<ol style="list-style-type: none"> 1. Open all drain valves 2. Clean float switch 3. Remove thumb knobs and push engine compartment cover back a few inches 4. Unkink hose 5. Tighten pump's garden hose swivel fitting or replace impeller 6. Replace
No water supply	<ol style="list-style-type: none"> 1. Water not turned on 2. Closed valve(s) 3. Kinked hose 4. Broken or frozen solenoid 5. Broken jet spray switch 	<ol style="list-style-type: none"> 1. Turn water on 2. Open all valves 3. Unkink hose 4. Replace 5. Replace
RPM's of vacuum motor going dramatically down	<ol style="list-style-type: none"> 1. Recovery tank full of water 2. Excess soap residue in carpet 	<ol style="list-style-type: none"> 1. See above section: "Recovery tank will not drain." 2. Increase defoamer injection
Vacuum motor will not turn on	<ol style="list-style-type: none"> 1. Check wall plug and plug on back of machine 2. Check building's circuit breaker 3. Bad switch, loose wire or bad motor 	<ol style="list-style-type: none"> 1. Plug in 2. Reset circuit breaker 3. Call us
Water going to machine but not to prespray system	<ol style="list-style-type: none"> 1. Quick connect not seated properly 	<ol style="list-style-type: none"> 1. Reseat quick connect
Hazing of view chamber	<ol style="list-style-type: none"> 1. Use of strong solvents 	<ol style="list-style-type: none"> 1. Quit using them
Slow drying times	<ol style="list-style-type: none"> 1. Clogged Filter Bag 2. Obstructed vacuum shoe 	<ol style="list-style-type: none"> 1. Change Filter Bag 2. Clean vacuum shoe
Machine shocks you	<ol style="list-style-type: none"> 1. Short or improper ground in either machine or outlet 	<ol style="list-style-type: none"> 1. Immediately stop operating and call us
Defoamer not injecting	<ol style="list-style-type: none"> 1. Clogged defoamer valve 	<ol style="list-style-type: none"> 1. Separate tube connector above defoamer bottle. Open defoamer valve and blow through tube until unclogged
Machine's vacuum motor RPM go up and stay up	<ol style="list-style-type: none"> 1. Clogged filter bag 	<ol style="list-style-type: none"> 1. Change filter bag