

# Kaivac Troubleshooting



**CAUTION**

Always make sure machine is unplugged before removing electrical box or base cover assembly

Area	Problem	Possible Cause	Remedy
Chemical Injection System cont.	Not enough chemical flow	1. Metering tip plugged. 2. Wrong metering tip.	1. Remove and clean. 2. Check and replace per chart.
	Chemical line blows off safety cap.	1. Debris in injector. 2. Bad seat on injector valve.  3. Injector installed backwards.	1. Using an airline or equal, blow small bursts of air into affected chemical line. Or remove electric box and clean injector. 2. Check injector o-ring or replace. 3. Remove and reinstall correctly, arrow on injector should point towards pressure hose.
	Water backflows into chemical bottle		
Dump System	Tank will not empty	1. Dump hose plug not removed.  2. Drain hose plugged.  3. Dumping area too high for flow.	1. Hold hose high and remove plug, lower and dump. 2. Raise and lower dump hose to agitate. If garden hose is available blow water back through line to remove blockage. 3. Dump into lower area.
	Dump hose leaks	1. Hose cut.  2. Clamp loose. 3. Dump plug bushing missing. 4. Plug missing.	1. If leak is less than 4" from tank side, cut and reattach. Or replace. 2. Retighten hose clamp. 3. Replace bushing. 4. Replace plug.
Wheels and casters	Wheels won't roll or they rub	1. Flat tires. 2. Debris wrapped around axle. 3. Bearings tight. 4. Wheels too loose on axle.  5. Bearing falling out.	1. Inflate tires to 30 psi. 2. Check for debris on axle. 3. Grease bearings. 4. Remove wheel, add washers to take up slack. 5. Refer to remedy 4.
Squeegee Head	Floor streaks	1. Worn blades or wheels.	1. Replace wheels and or blades.
	Squeegee head doesn't easily rotate when installed on wand	1. Brass ring on wand not in groove. 2. Coupling nut too tight.	1. Loosen coupling nut and reposition head on groove. 2. Loosen 1/2 turn.
	Head won't stay on wand	1. Coupling nut cracked. 2. Brass ring worn.	1. Replace. 2. Replace.
	Premature blade wear	1. Squeegee wheels worn.	1. Check wheels for wear/ replace.
	Sucks to the floor too tightly	1. Squeegee wheels worn.	1. Check wheels for wear/ replace.

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High Pressure System	No water from pump or low pressure	<ol style="list-style-type: none"> <li>1. Out of water.</li> <li>2. Gun nozzle plugged.</li> <li>3. Air in pump(vapor lock).</li> <li>4. Gun orifice missing.</li> <li>5. Tank filter plugged.</li> <li>6. Pressure hose damaged.</li> <li>7. Quick disconnect leaking.</li> <li>8. Injector plugged.</li> <li>9. Pulse hose damaged.</li> <li>10. Regulator failed.</li> <li>11. Hose kinked.</li> <li>12. Seals in pump need replaced.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill water tank.</li> <li>2. Remove orifice with allen wrench and clean.</li> <li>3. Use power prime technique.</li> <li>4. Replace orifice.</li> <li>5. Clean tank and filter.</li> <li>6. Repair or replace.</li> <li>7. Tighten or replace.</li> <li>8. Using an airline or equal blow small bursts of air into affected chemical line.</li> <li>9. Repair or replace.</li> <li>10. Replace.</li> <li>11. Unkink and check for damage.</li> <li>12. Remove and replace seals.</li> </ol>
	Bad fan pattern or pinpoint pattern on gun	<ol style="list-style-type: none"> <li>1. Debris in nozzle.</li> <li>2. Orifice damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove orifice with allen wrench and clean.</li> <li>2. Remove and replace.</li> </ol>
Chemical Injection System	No chemical flow	<ol style="list-style-type: none"> <li>1. Out of chemical.</li> <li>2. Chemical line not in jug.</li> <li>3. Chemical valve in "off".</li> <li>4. Spray gun in wrong mode.</li> <li>5. Metering tip plugged.</li> <li>6. Injector plugged.</li> <li>7. Air entering system.</li> <li>8. Injector installed backwards.</li> </ol>	<ol style="list-style-type: none"> <li>1. Refill chemical.</li> <li>2. Make sure line is in chemical.</li> <li>3. Check on off valve.</li> <li>4. Make sure gun nozzle is pulled out away from gun for chemical mode.</li> <li>5. Check metering tip for clog.</li> <li>6. Using an airline or equal, blow small bursts of air into affected chemical line.</li> <li>7. Check for air entering system around chemical lines or injector.</li> <li>8. If fluttering or pulsing sound can be heard while spraying or when machine is running it is possible that you injector is in backwards. Remove and reinstall.</li> </ol>

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Electrical	No power to pump or vac motor.	<ol style="list-style-type: none"> <li>1. KaiVac not plugged in.</li> <li>2. Switch not "on".</li> <li>3. GFCI tripped.</li> <li>4. Building circuit overloaded.</li> <li>5. Switch wires loose.</li> <li>6. Terminal block connections loose.</li> </ol>	<ol style="list-style-type: none"> <li>1. Plug machine in.</li> <li>2. Check switches for "on".</li> <li>3. Test and reset GFCI.</li> <li>4. Check and reset circuit.</li> <li>5. Disconnect power and check for loose wire.</li> <li>6. Disconnect power and check for loose wire.</li> </ol>
	Electrical burning smell	<ol style="list-style-type: none"> <li>1. Vac motor brushes worn.</li> <li>2. Vac motor hung up.</li> <li>3. Pump motor hung up.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace vac motor brushes.</li> <li>2. Replace vac motor.</li> <li>3. Release pressure on hose and jog pump switch. Or replace.</li> </ol>
Vacuum System	No / Weak vacuum	<ol style="list-style-type: none"> <li>1. Vac tank full.</li> <li>2. Squeegee blades or wheels worn.</li> <li>3. Float-shutoff screen dirty.</li> <li>4. Float ball stuck.</li> <li>5. Damaged hose.</li> <li>6. Dump hose plug missing.</li> <li>7. Access lid not tight.</li> <li>8. Vacuum hose plugged.</li> <li>9. Too much liquid in vac hose.</li> <li>10. Vac hose still wrapped.</li> <li>11. Muffler plugged.</li> <li>12. Hose from vac motor to standpipe loose.</li> <li>13. Leak in vac tank.</li> </ol>	<ol style="list-style-type: none"> <li>1. Empty vac tank.</li> <li>2. Replace wheels or blades and check periodically.</li> <li>3. Spray off float bag to clean.</li> <li>4. Tap float and release / clean.</li> <li>5. Cut and repair / replace.</li> <li>6. Contact dealer and replace.</li> <li>7. Tighten lid hand tight.</li> <li>8. Flush hose to remove debris.</li> <li>9. Allow air in when Vacuuming.</li> <li>10. Unwrap vac hose fully.</li> <li>11. Remove padding and clean.</li> <li>12. Reattach and tighten.</li> <li>13. If repairable, clean and dry affected area and silicone.</li> </ol>
	Moister from exhaust	<ol style="list-style-type: none"> <li>1. Vac tank full.</li> <li>2. Float-shutt off missing.</li> <li>3. Excessive foam in vac tank.</li> <li>4. Standpipe leaking.</li> <li>5. Water sprayed into standpipe while cleaning.</li> </ol>	<ol style="list-style-type: none"> <li>1. Dump vac tank.</li> <li>2. Replace.</li> <li>3. Use defoamer.</li> <li>4. Silicone threads or replace.</li> <li>5. Use care to avoid spraying directly into float housing.</li> </ol>
Blow dry system	No air flow	<ol style="list-style-type: none"> <li>1. Hose disconnected.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reconnect hose.</li> </ol>
	Moister from nozzle	<ol style="list-style-type: none"> <li>1. Water in vac hose.</li> </ol>	<ol style="list-style-type: none"> <li>1. Dry vac line.</li> </ol>
	Suction instead of blow action	<ol style="list-style-type: none"> <li>1. Vacuum hose connected to tank inlet.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reconnect to vac motor exhaust.</li> </ol>