KaiVac® 1200 Series
Operator and Parts Manual

KaiVac 1215 Kaivac Manual Serial#137 on

kaivac cleaning systems™
Complete Cleaning For Healthy Results™

© 2008 Kaivac, Inc. All Rights Reserved.
Read this manual prior to operation. This machine will operate at its optimal efficiency if:

- The machine is operated as described in this manual.
- The machine is maintained properly and regularly-per maintenance instructions.
- The machine is maintained with manufacturer parts only.

Carefully unpack and inspect your new KaiVac cleaning machine for shipping damage. Each unit is tested and thoroughly inspected before shipping. For instructions regarding shipping damage, contact Kaivac, Inc. immediately. All returns must have a Return Authorization Number (RAN), which is available by calling Kaivac, Inc. Technical Support Department. Remember to protect your investment by registering your Warranty form on page ii.

**TABLE OF CONTENTS**

**Getting Started**
- Limited Warranty Protection Plan.................................................................i
- Warranty Registration Form.........................................................................ii
- Introduction..................................................................................................1
- Safety Precautions......................................................................................2-3

**Operating your KaiVac**
- Out of Box Setup Instructions.....................................................................4
- Preparing your KaiVac for use.....................................................................5
- Operating your KaiVac using the S-I-M-P-L-E Process..............................6

**Maintaining your KaiVac**
- Machine Maintenance...............................................................................7
- Vac Tank Cleanout Instructions..................................................................8
- Vac Tank Removal Instructions...................................................................8.5
- Black Box Removal Instructions..................................................................9
- Troubleshooting............................................................................................10-12
- Machine Diagrams......................................................................................13-19
- Parts Listings...............................................................................................20-22
Limited Warranty Protection Plan

The KaiVac has been engineered and tested to provide long lasting performance. This warranty covers defects in workmanship or materials under normal use and service from the date of purchase.

Kaivac, Inc. warrants the following components to be free from defects in materials and workmanship for these time periods:

1.) Extended Warranty for end users who use only Kaivac chemicals for the life of the machine.
   ● 5 years on rotationally molded parts
   ● 3 years on other parts (excluding wear items)
   ● 1 year on labor

2.) Standard Warranty (for approved non-Kaivac chemicals)
   ● 1 year parts and labor

3.) Chemicals that have not been approved by Kaivac. (If uncertain, please call Kaivac to check.)
   ● No warranty

All KaiVac replacement parts are guaranteed for 90 days from the date of installation. Normal wear items such as wheels, hoses, seals, gaskets, cords, casters, squeegees and GFCI are excluded from warranty coverage.

All warranty claims must be accompanied by a Return Authorization Number (RAN), which is available by calling the Kaivac, Inc. Customer Service Department. No returns will be accepted without a RAN.

This warranty does not apply to return freight costs, damage or defect caused by accident, negligence, misuse, fire or repair done by anyone other than a Kaivac, Inc. authorized repair center. In no event shall Kaivac, Inc. be liable for incidental or consequential damages, or any damages to persons or property.

Please Note: Under no circumstances will the seller be liable for any loss, damage, expenses or consequential damages arising in connection with the use or inability to use seller’s product. Kaivac, Inc. reserves the right to make changes or improvements to its equipment without notice. Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty is in lieu of any other warranty expressed or implied, including any warranty of merchantability or fitness for a particular purpose.
Warranty Registration Form

To be completed and mailed or faxed by the customer purchasing equipment.
Return this warranty card within ten days of purchase.

Purchased By:
Name ____________________________ Title __________________

Company ____________________________________________

Street Address ________________________________________

City _________________ State _______ Zip Code ________

Phone Number _________________ Fax _________________

Date Purchased ____/____/____ Name of Distributor ______________

I would like to receive updated information Yes_____ No _____

Email address: __________________________________________

☐ KaiVac® 1715  ☐ KaiVac® 1750
☐ KaiVac® 1215  ☐ KaiVac® 2150

Serial Number __________________________

Type of Business

☐ School/University  ☐ Industrial
☐ Hospital/Health Care  ☐ Office
☐ Contract Cleaner  ☐ Other __________________

Intended Uses (check all that apply):

☐ Restroom Cleaning  ☐ Cleaning Around Machinery  ☐ Classroom Cleaning
☐ Floor Stripping  ☐ Stairwell Cleaning  ☐ Other ______________
☐ Kitchen Cleaning  ☐ Locker and Shower Room  ☐ Hallway Cleaning
☐ Carpet Extraction

Thank you for registering for our warranty program. As our way of saying thanks, we’d like to send you a free microfiber KaiTowel™

Please return completed forms to:

Kaivac, Inc.
401 S. Third Street
Hamilton, OH 45011

Or Fax to: (513) 887-4601

© 2009 Kaivac, Inc. All Rights Reserved.
IMPORTANT SAFETY INSTRUCTIONS
SAVE THESE INSTRUCTIONS

CAUTION
To Reduce the Risk of injury, Read Operating Instructions Carefully Before Using

WARNING
Risk of injection or injury to Persons - Do Not Direct Discharge Stream at Persons

WARNING
RISK OF ELECTROCUTION

- Connect to a properly grounded outlet. Do Not Remove Ground Pin
- Inspect Cord Before Using - Do Not Use If Cord Is Damaged
- Keep All Connections Dry And Off The Ground
- Do not Touch Plug With Wet Hands
- This Product Is Provided With A Ground Fault Circuit Interrupter Built Into The Power Cord. If Replacement Of The Plug Or Cord Is Needed, Use Only Identical Replacement Parts.
- Test The Ground Fault Circuit Interrupter (GFCI) Before Each Use.
- Do not close a door on the cord or pull the cord around sharp edges or corners.
- Do not run over the cord.
- Keep the cord away from heated surfaces.
- Do not spray liquid from the KaiVac onto electrical outlets or on any electrical devices.
- Turn off the unit before unplugging.
- Do not pull on the cord to unplug. Grasp the plug at the outlet and pull.
- Read Instruction Manual Before Using

Grounding Instructions
THE KAIVAC MUST BE GROUNDED. If it should malfunction or stop working, grounding provides a path of least resistance for the electrical current and reduces the risk of electrical shock. The KaiVac is equipped with a ground fault circuit interrupter (GFCI) to further reduce danger of electric shock. It must be maintained and tested regularly. An equipment grounding cord and plug is included with the unit. The plug must be inserted in an appropriate outlet that has been properly installed and grounded in accordance with all local codes and ordinances. Cutting off the ground wire or using a cord with an ungrounded plug will void the warranty on the unit, and Kaivac, Inc. will NOT accept responsibility for the unit.

Improper connection of the equipment grounding cord can result in the risk of electrical shock. Ask a qualified electrician or service person to check the outlet grounding if you are unsure. Do not modify the plug provided with the KaiVac. If it will not fit the outlet, have a properly grounded outlet installed by a qualified electrician.

© 2006 Kaivac, Inc. All Rights Reserved.
IMPORTANT SAFETY INSTRUCTIONS
SAVE THESE INSTRUCTIONS

⚠️ WARNING

When using this product basic precautions should always be followed, including the following:

- Read all the instructions before using the product.
- To reduce the risk of injury, close supervision is necessary when a product is used near children.
- Know how to stop the product and bleed pressures quickly. Be thoroughly familiar with the controls.
- Stay alert – watch what you are doing.
- Do not operate the product when fatigued or under the influence of alcohol or drugs.
- Keep operating area clear of all persons.
- Do not overreach or stand on unstable support. Keep good footing and balance at all times.
- Follow the maintenance instructions specified in the manual.

Personal Protection
- It is recommended to wear proper personal protective equipment as required by the chemical product label instructions used in conjunction with the KaiVac.

FOR INDOOR USE ONLY
OPERATION INSTRUCTIONS
SAVE THESE INSTRUCTIONS

Inspection
Carefully unpack and inspect your new KaiVac cleaning machine for shipping damage. Each unit is tested and thoroughly inspected before shipping. For instructions regarding any shipping damage, contact KaiVac Inc. immediately. All returns must have a Return Authorization Number (RAN), which is available by calling the KaiVac Inc. Technical Service Department.

Equipment Use
- Use the equipment for the purposes specified by the manufacturer.
- Do not remove the float shutoff.
- Do not run the pump dry. This will void the machine warranty.
- Do not run hot water through the pump. This will void the warranty.
- Always test chemicals for compatibility on surfaces to be cleaned.
- Always be sure the water tank and water line filters are clear of debris.
- Do not use to pick up flammable or combustible materials.
- Replace any damaged cords before use.
- See the S-I-M-P-L-E operation section for proper use of equipment.

Chemical use
- Only use chemicals approved for use with the KaiVac. Use of non-KaiVac chemicals may cause machine damage and will reduce warranty periods. Turn chemical line off when not in use.
- Keep the appropriate chemical MSDS on hand at all times.
- Cleaning chemicals should not be put in the water tank (with the exception of KaiDri in small amounts). Chemicals in the water tank can harm operator and machine because:
  - Chemicals in the water tank must pass through the pump, which may cause premature pump failure.
  - Use of chemicals in the water tank voids the warranty.
  - Chemicals in the water tank will be aerosolized and may harm the operator.

Training
- Proper training is required before using the KaiVac. Contact your authorized KaiVac Inc. distributor for training information.
- Instruction placards are attached to each KaiVac and should not be removed.
- These placards show proper cleaning procedures and safety precautions.

Prevention of Water Damage to Buildings
The KaiVac is to be used on water resistant building surfaces only. These include concrete, terrazzo, ceramic tile and quarry tile. The KaiVac may be used for stripping on vinyl composite tile floors, but daily cleaning of resilient flooring using the KaiVac is not recommended. Never overflow the water tank or the vacuum recovery tank. Discontinue use if any leaks occur in the KaiVac.

CAUTION: Prior to cleaning, always inspect area to ensure that the surfaces to be cleaned are water-safe. In addition, check for poor construction, damaged walls and floors, missing or damaged tiles or grout, missing or insufficient caulk, and loose wall coverings. If problems are discovered, resolve them prior to cleaning in order to avoid any harm that may result from exposure to water or cleaning solution.
Out of Box Setup Instructions

1. Remove vac wand sections from the sides of machine and attach together until locking pin engages as shown.

2. After removing machine from container, attach the plastic elbow to the vac tank as shown above.

3. SMALL HOSE CUFF
   - Attach vac motor hose to barb and vac motor inlet as shown above.

4. Remove the tools from the vac tank and place them in the appropriate locations as shown above.

5. Place the brush head onto the telescoping handle located on the left side of machine as shown above.

6. Make sure all tools are removed from vac tank and replace vac lid on vac tank as shown above. Place tools in tote bag and hang bag over nose of machine.

© 2008 Kaivac, Inc. All Rights Reserved.
1200 Series Vac Tank Horn Operation

1. Connect the vacuum wand and slinky hose together.
2. Rotate the horn assembly so that it is now pointing towards the front of the machine.
3. Place hand behind vac hose and slide forward off of horn onto floor.
3. Once hose is off and on floor turn on vac motor and proceed extracting.
## Preparing your KaiVac for use

1. Fill machine with clean, cool water.

2. Prepare the cleaning solution you will be using by attaching the chemical feed line and cap to the top of your chemical bottle and selecting the proper metering tip. (See placards for metering tip information.)

3. Check machine for all tools and supplies needed to complete task.

4. If using a cleaning product that has high foaming use a foam inhibitor to cut down on foam. Pour 2 capfulls of inhibitor in the vac hose with vac running to coat inside of hose.

5. Check all hoses and spray lines for damage prior to use. If damage is found, do not continue until proper repairs are completed.

6. Plug in machine and test GFCI (Ground Fault Circuit Interrupter) to ensure it is working properly. You are now ready.
S.I.M.P.L.E.

No-Touch Cleaning Process

**Set-up**
- Fill with clean, cool water.
- Add 1 cap of KaiDri (for spot-free rinsing).
- Select metering tip and insert into cap barb.

**Inject chemicals**
- LOW Pressure Mode
- Fan spray

**Manual brush**
- Manual brush heavily soiled areas.

**Pressure wash and rinse**
- High Pressure Mode
- Pinpoint Spray

**Loop spray line**
- FIGURE-8
- Prevents kinks
- Hook
- Adjust last loop (if needed).

**Extract and dry**

© 2007 Kaivac, Inc. All Rights Reserved
### Machine Maintenance

**CAUTION**
Always make sure machine is unplugged before lifting electric cover assembly.

<table>
<thead>
<tr>
<th>Item</th>
<th>Procedure</th>
</tr>
</thead>
</table>
| Floor Squeegee      | - Check condition of rubber squeegee blades and wheels on the floor tool.  
                      - Rough floor surfaces will cause the blades and wheels to wear out more quickly. Replace as necessary. |
| Spray Gun           | - Check spray pattern. If spray pattern will not pinpoint, clean orifice by removing it with an Allen wrench and flushing. Replace if not pinpointing.  
                      - If nozzle becomes difficult to move from high to low pressure lubricate nozzle with lithium grease. |
| Pressure Hose       | - Wipe clean after each use.  
                      - Check for cuts or frays in the hose jacket, particularly at the end of the fittings. Replace hose if cuts are found. |
| Water Tank          | - Check condition of filter in water tank. Clean as needed.  
                      - Empty the water tank to prevent mildew and bacteria growth. Empty tank by dipping the vacuum hose onto the water tank and transferring the water to the vacuum tank. |
| Vacuum Tank         | - Empty and flush vacuum tank.  
                      - Clean and disinfect.  
                      - Check the float shutoff screen to be sure it is not plugged up. A plugged filter screen restricts airflow and results in reduced suction. |
| Leaks               | - Be alert for leaks around hoses, fittings, spray wand, tanks or elsewhere.  
                      - Discontinue use until leaks are repaired. |
| Electrical System   | - The ground fault circuit interrupter (GFCI) must be tested before each use.  
                      - Electric cords must be inspected for tears or cuts in the insulation. |
Black Box Removal Instructions

1. Remove all hoses, cords, and tools prior to black box removal.

2. Laying the machine on its back remove the four yellow wingbolts as shown above.

3. Placing your foot on one of the two handles, tilt the yellow tanks upward until standing upright.

4. Locate and disconnect the water line and return line behind the black box on the machine.
## Troubleshooting

**CAUTION**
Always make sure machine is unplugged before lifting electric cover assembly.

<table>
<thead>
<tr>
<th>Area</th>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
</table>
| **Electrical**   | No power to pump or vac motor.                  | 1. Machine not plugged in.  
2. Switch not “on.”  
3. GFCI tripped.  
4. Building circuit overloaded.  
5. Switch wires loose.  
2. Check switches for “on.”  
3. Test and reset GFCI.  
4. Check and reset circuit.  
5. Disconnect power and check for loose wire.  
6. Disconnect power and check for loose wire under panel. |
| **Electrical burning smell.** |                                               | 1. Vac motor brushes worn.  
2. Vac motor hung up.  
2. Release pressure on hose and jog pump switch, or replace. |
| **Vacuum System** | No/Weak vacuum.                                 | 1. Vac tank full.  
2. Squeegee blades or wheels worn.  
3. Float shutoff screen dirty.  
4. Float ball stuck.  
5. Damaged hose.  
6. Dump hose plug missing.  
7. Access lid not tight.  
8. Vacuum hose plugged.  
9. Too much liquid in vac hose.  
10. Vac hose still wrapped.  
11. Muffler plugged.  
12. Leak in vac tank. | 1. Empty vac tank.  
2. Replace wheels or blades and check periodically.  
3. Wipe off float screen to clean.  
4. Tap float and release/clean.  
5. Cut and repair/replace.  
6. Contact dealer and replace.  
7. Tighten lid hand tight.  
8. Flush hose to remove debris.  
9. Allow air in when vacuuming.  
10. Unwrap vac hose fully.  
11. Remove HEPA filter and clean.  
12. If repairable, clean and dry affected area and seal with silicone. |
| **Moisture from exhaust.** | 1. Vac tank full.  
2. Float shutoff missing.  
2. Replace.  
3. Use defoamer. | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
DVD System (optional)  
No power.  
No picture.  
No audio.  |
| **No air flow.** | 1. Hose disconnected.                            | 1. Reconnect hose.                                                          | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **Moisture from nozzle.** | 1. Water in blow hose.                           | 1. Dry blow line.                                                          | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **Suction, not blow action.** | 1. Vacuum hose connected to vac tank.           | 1. Reconnect to vac motor exhaust hose.                                   | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **DVD System (optional)** | No power.  
1. Power cord not connected  
2. Power switch not on. | 1. Plug cord into DVD player.  
2. Turn switch on DVD player on. | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **No picture.** | 1. Screen is blank.                              | 1. Close and re-open lid. Play.                                            | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **No audio.** | 1. No sound from player                          | 1. Check volume control knob.                                              | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **Blow Dry System** | 1. Hose disconnected.                            | 1. Reconnect hose.                                                          | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **Moisture from nozzle.** | 1. Water in blow hose.                           | 1. Dry blow line.                                                          | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **Suction, not blow action.** | 1. Vacuum hose connected to vac tank.           | 1. Reconnect to vac motor exhaust hose.                                   | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **DVD System (optional)** | No power.  
1. Power cord not connected  
2. Power switch not on. | 1. Plug cord into DVD player.  
2. Turn switch on DVD player on. | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **No picture.** | 1. Screen is blank.                              | 1. Close and re-open lid. Play.                                            | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **No audio.** | 1. No sound from player                          | 1. Check volume control knob.                                              | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **Blow Dry System** | 1. Hose disconnected.                            | 1. Reconnect hose.                                                          | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **Moisture from nozzle.** | 1. Water in blow hose.                           | 1. Dry blow line.                                                          | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **Suction, not blow action.** | 1. Vacuum hose connected to vac tank.           | 1. Reconnect to vac motor exhaust hose.                                   | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **DVD System (optional)** | No power.  
1. Power cord not connected  
2. Power switch not on. | 1. Plug cord into DVD player.  
2. Turn switch on DVD player on. | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **No picture.** | 1. Screen is blank.                              | 1. Close and re-open lid. Play.                                            | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  
| **No audio.** | 1. No sound from player                          | 1. Check volume control knob.                                              | 1. Blow Dry System  
No air flow.  
Moisture from nozzle.  
Suction, not blow action.  

© 2008 Kaivac, Inc. All Rights Reserved.
# Troubleshooting

**CAUTION**
Always make sure machine is unplugged before lifting electric cover assembly.

<table>
<thead>
<tr>
<th>Area</th>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High Pressure System</strong></td>
<td>No water from pump or low pressure.</td>
<td>1. Out of water.</td>
<td>1. Fill water tank.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Gun nozzle plugged.</td>
<td>2. Remove orifice with Allen wrench and clean.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Air in pump (vapor lock).</td>
<td>3. Use power prime technique.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Gun orifice missing.</td>
<td>4. Replace orifice.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. Water tank filter plugged.</td>
<td>5. Clean tank and filter.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. In-line bowl filter plugged.</td>
<td>6. Remove filter cover and clean.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8. Pressure hose damaged.</td>
<td>8. Repair or replace.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9. Quick disconnect leaking.</td>
<td>9. Tighten or replace.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10. Injector plugged.</td>
<td>10. Remove safety cap from chemical and blow small amounts of compressed air into line.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11. Pulse hose damaged.</td>
<td>11. Repair or replace.</td>
</tr>
<tr>
<td><strong>Bad fan pattern or pinpoint pattern on gun.</strong></td>
<td>1. Debris in nozzle.</td>
<td>1. Remove orifice with Allen wrench and clean.</td>
<td>1. Refill chemical.</td>
</tr>
<tr>
<td></td>
<td>2. Orifice damaged.</td>
<td>2. Remove and replace.</td>
<td>2. Check safety cap / tighten.</td>
</tr>
<tr>
<td><strong>Chemical Injection System</strong></td>
<td>No chemical flow.</td>
<td>1. Out of chemical.</td>
<td>3. Replace cap.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Safety cap not secure.</td>
<td>5. Make sure gun nozzle is pulled out away from gun chemical mode.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Safety cap plugged.</td>
<td>7. Remove safety cap from chemical and blow small amounts of compressed air into line.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. Spray gun in wrong mode.</td>
<td>8. Check for air entering system around chemical lines or injector.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. Metering tip plugged.</td>
<td>9. If fluttering or pulsing sound can be heard while spraying or when machine is running it is possible that your injector is in backwards. Remove and reinstall.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7. Injector plugged.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8. Air entering system.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>9. Injector installed backwards.</td>
<td></td>
</tr>
</tbody>
</table>
# Troubleshooting

<table>
<thead>
<tr>
<th>Area</th>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
</table>
| Chemical Injection    | Not enough chemical flow.                    | 1. Metering tip plugged.  
2. Wrong metering tip.                                                           | 1. Remove and clean.  
2. Check and replace per chart.                                                 |
| System Cont'd.        | Chemical line blows off safety cap.          | 1. Debris in injector.                                                         | 1. Remove safety cap from chemical and blow small amounts of compressed air into line. |
|                       | Water backflows into chemical bottle.        | 1. Bad seat on injector check valve.  
2. Bad safety cap.                                                              | 1. Check injector o-ring or replace.  
2. Replace safety cap.                                                          |
| Dump System           | Dump hose will not empty tank.               | 1. Dump hose plug not removed.  
2. Clog in bottom of tank.                                                      | 1. Remove plug.  
2. Tip dump contents, remove debris.                                             |
|                       | 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. Tighten 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.  
4. Wheels too loose on axle.  
5. Bearings falling out.                                                        | 1. Inflate tires to 30 p.s.i.  
2. Check for debris on axle.  
3. Grease bearings.  
4. Remove wheel, add washers to take up slack.  
5. Replace bearing assembly.                                                     |
| Squeegee Head         | Floor streaks.                               | 1. Worn blades or wheels.                                                      | 1. Replace wheels and / or blades.                                       |
|                       | Squeegee head doesn’t easily rotate when     | 1. Brass ring on wand not in groove.  
2. Coupling nut too tight.                                                       | 1. Loosen coupling nut and re-position head on groove.  
2. Loosen 1/2 turn.                                                             |
|                       | installed on wand.                           |                                                                              |                                                                          |
|                       | Head won’t stay on wand.                     | 1. Coupling nut cracked.  
2. Brass ring worn.                                                              | 1. Replace.  
2. Replace.                                                                     |
|                       | Sucks to the floor too tightly.              | 1. Squeegee wheels worn.                                                       | 1. Check wheels for wear / replace.                                      |
NOTE: Relief Bypass only used in 1250 units.

© 2009 Kaivac, Inc. All Rights Reserved
Kaivac Tool Arrangement

OPTIONAL TOOLS AND EQUIPMENT SHOWN

**Front Right View**
- Squeegee Head (CVS12S)
- Vac Wand 2 Piece (CVS11A)
- Swivel Brush (SWBRUSH)
- Brush Handle (CAS03A)
- KaiDrain (CVS14)
- Electric Cord GFCI (GFCI25)
- HEPA Cover (BAT1250)

**Rear Left View**
- Chemical Holder (VLJHA)
- Blow Nozzle (CVS13)
- Chemical On/Off Valve (CP550)
- Spray Gun 1215 (SUBGA2)
- Spray Line (PH18)

**Overhead View**

**Bottom View**

**(OPTIONAL) DryVac Complete (DRYVAC)**
See Page 21.5

© 2008 Kaivac, Inc. All Rights Reserved
## Parts Listings

<table>
<thead>
<tr>
<th>PART #</th>
<th>PART DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>WTY12</td>
<td>WATER TANK YELLOW</td>
</tr>
<tr>
<td>CSS204</td>
<td>BRASS PLUG</td>
</tr>
<tr>
<td>CSS142</td>
<td>BRASS BARB</td>
</tr>
<tr>
<td>MFLT</td>
<td>MUSHROOM FILTER</td>
</tr>
<tr>
<td>CSS132</td>
<td>BOLTS FOR CASTERS</td>
</tr>
<tr>
<td>CSS133</td>
<td>LOCK WASHERS FOR CASTERS</td>
</tr>
<tr>
<td>LCST4</td>
<td>CASTER 4 INCH</td>
</tr>
<tr>
<td>LID4</td>
<td>4 INCH LID FOR WATER TANK</td>
</tr>
<tr>
<td>CSS17A</td>
<td>SCREWS FOR LID</td>
</tr>
<tr>
<td></td>
<td>VAC TANK ASSEMBLY</td>
</tr>
<tr>
<td>VTY135</td>
<td>VAC TANK YELLOW</td>
</tr>
<tr>
<td>CSS173</td>
<td>1 1/4&quot; NPT X 11/2&quot; BARB</td>
</tr>
<tr>
<td>VLJH</td>
<td>VAC LID / JUG HOLDER</td>
</tr>
<tr>
<td>GAS02</td>
<td>GASKET FOR JUG HOLDER</td>
</tr>
<tr>
<td>CSS14</td>
<td>BECKSON CLIP TOOL HOLDER</td>
</tr>
<tr>
<td>CSS202</td>
<td>SCREWS FOR BECKSON CLIPS</td>
</tr>
<tr>
<td>CSS11</td>
<td>SCREWS FOR 9 INCH STRAPS</td>
</tr>
<tr>
<td>SUBSS9</td>
<td>9 INCH STRAPS</td>
</tr>
<tr>
<td>CSS20</td>
<td>SNAP STUD FOR 9 INCH STRAPS</td>
</tr>
<tr>
<td>CSS91</td>
<td>3/8 x 2 1/4 CAP SCREW</td>
</tr>
<tr>
<td>KMB16</td>
<td>3/8 WASHER</td>
</tr>
<tr>
<td>CSS03</td>
<td>WORM CLAMP FOR DUMP HOSE</td>
</tr>
<tr>
<td>DH26</td>
<td>DUMP HOSE 26 INCH</td>
</tr>
<tr>
<td>KMB16</td>
<td>3/8 WASHER</td>
</tr>
<tr>
<td>CSS91</td>
<td>3/8 x 2 1/4 CAP SCREW</td>
</tr>
<tr>
<td>CSS11</td>
<td>SCREWS FOR 9 INCH STRAPS</td>
</tr>
<tr>
<td>CSS20</td>
<td>SNAP STUD FOR 9 INCH STRAPS</td>
</tr>
<tr>
<td>SUBSS7</td>
<td>7 INCH STRAP FOR VAC WAND</td>
</tr>
<tr>
<td>SUBSS9</td>
<td>9 INCH STRAPS</td>
</tr>
<tr>
<td>CSS14</td>
<td>BECKSON CLIP TOOL HOLDER</td>
</tr>
<tr>
<td>CSS202</td>
<td>SCREWS FOR BECKSON CLIPS</td>
</tr>
<tr>
<td>KZFLOAT</td>
<td>FLOAT SHUTOFF</td>
</tr>
<tr>
<td>HORN</td>
<td>HORN ASSEMBLY</td>
</tr>
<tr>
<td>HSpring</td>
<td>SPRING</td>
</tr>
<tr>
<td>KMB16</td>
<td>3/8 SST FLAT WASHER</td>
</tr>
<tr>
<td>CSS26</td>
<td>3/8 X 1 1/2 LONG CAP SCREW</td>
</tr>
<tr>
<td>CSS151</td>
<td>SNAP STUD</td>
</tr>
</tbody>
</table>
## Parts Listings

<table>
<thead>
<tr>
<th>PART #</th>
<th>PART DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>VA1215</td>
<td>VALVE ASSEMBLY (SEE PAGE 21)</td>
</tr>
<tr>
<td>SPA1215</td>
<td>SWITCH PANEL ASSEMBLY (PAGE 20)</td>
</tr>
<tr>
<td>CSS17A</td>
<td>SCREWS TO MOUNT PANEL</td>
</tr>
<tr>
<td>CSS07</td>
<td>BOLTS TO MONT VAC TO BOX</td>
</tr>
<tr>
<td>CSS156</td>
<td>3/8 x 3/4 YELLOW THUMB SCREW</td>
</tr>
<tr>
<td>CSS175</td>
<td>RUBBER GROMMET</td>
</tr>
<tr>
<td>CSS07</td>
<td>BOLTS TO MOUNT PUMP TO BOX</td>
</tr>
<tr>
<td>CAP12</td>
<td>PLASTIC PLUG</td>
</tr>
<tr>
<td>CSS174</td>
<td>SCREW TO MOUNT HOSE CLAMP</td>
</tr>
<tr>
<td>CSS130</td>
<td>RUBBER CUSHIONED CLAMP</td>
</tr>
<tr>
<td>CSS101</td>
<td>ACORN NUT</td>
</tr>
<tr>
<td>CPS12JQC</td>
<td>CHEMICAL INJECTOR W/QD</td>
</tr>
<tr>
<td>PA1215</td>
<td>PUMP ASSEMBLY 150PSI (SEE PAGE 17)</td>
</tr>
<tr>
<td>CSS72</td>
<td>COTTER PIN</td>
</tr>
<tr>
<td>CSS40</td>
<td>1/2INCH WASHER</td>
</tr>
<tr>
<td>CSS01</td>
<td>PUSH CAP NUT</td>
</tr>
<tr>
<td>WHL515</td>
<td>5 INCH WHEEL</td>
</tr>
<tr>
<td>AX195G</td>
<td>AXLE</td>
</tr>
<tr>
<td>BB10</td>
<td>BLACK BOX BODY 1200 SERIES</td>
</tr>
<tr>
<td>VMA1200</td>
<td>VAC MOTOR ASSEMBLY (SEE PAGE 18)</td>
</tr>
<tr>
<td>PAGE 19</td>
<td>HEPA ASSEMBLY (SEE PAGE 19)</td>
</tr>
<tr>
<td>CSS137</td>
<td>LOCK WASHER</td>
</tr>
<tr>
<td>CSS03</td>
<td>WORM CLAMP FOR VAC HOSE</td>
</tr>
<tr>
<td>CSS141</td>
<td>RUBBER GROMMET FOR ELECTRIC LINE</td>
</tr>
<tr>
<td>CPS75</td>
<td>WIRE HARNESS CLAMP</td>
</tr>
<tr>
<td>CSS11</td>
<td>SCREW FOR CLAMP</td>
</tr>
<tr>
<td>PCKV12</td>
<td>WIRE HARNESS</td>
</tr>
<tr>
<td>VMH26</td>
<td>VAC MOTOR INLET HOSE</td>
</tr>
</tbody>
</table>

© 2007 Kaivac, Inc. All Rights Reserved.
<table>
<thead>
<tr>
<th>PART #</th>
<th>PART DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1215 PUMP ASSEMBLY (PA1215 COMPLETE)</td>
</tr>
<tr>
<td>CSS08</td>
<td>5/16 U NUT</td>
</tr>
<tr>
<td>CSS07</td>
<td>5/16 18x1 HEX HEAD</td>
</tr>
<tr>
<td>CPS64</td>
<td>90 DEG BRASS ELBOW</td>
</tr>
<tr>
<td>CPS20</td>
<td>HOSE BARB</td>
</tr>
<tr>
<td>CSS161</td>
<td>SIZE 6 YELLOW TURN KEY CLAMP</td>
</tr>
<tr>
<td>WL1250</td>
<td>INLET HOSE</td>
</tr>
<tr>
<td>CPS10</td>
<td>CLAMP</td>
</tr>
<tr>
<td>PUMP150</td>
<td>PUMP AND MOTOR ONLY</td>
</tr>
<tr>
<td></td>
<td>JWB</td>
</tr>
<tr>
<td></td>
<td>JUMPER WIRE BLACK</td>
</tr>
<tr>
<td></td>
<td>JWW</td>
</tr>
<tr>
<td></td>
<td>JUMPER WIRE WHITE</td>
</tr>
<tr>
<td>PHASM</td>
<td>PULSE HOSE ASSEMBLY</td>
</tr>
<tr>
<td></td>
<td>VAC MOTOR</td>
</tr>
<tr>
<td>CSS203</td>
<td>1/4 20X 1 1/2 HEX HEAD BOLT</td>
</tr>
<tr>
<td>CSS44</td>
<td>1/4 FLAT WASHER</td>
</tr>
<tr>
<td>CSS39</td>
<td>1 1/16 TO 2 INCH CLAMP</td>
</tr>
<tr>
<td>VBRAK</td>
<td>VAC MOTOR BRACKET</td>
</tr>
<tr>
<td>CSS27</td>
<td>NYLOC NUT</td>
</tr>
<tr>
<td>CSS08</td>
<td>5/16 U-NUT</td>
</tr>
<tr>
<td>CSS11</td>
<td>3/4 INCH SELF DRILLING SCREW</td>
</tr>
<tr>
<td>HFH16</td>
<td>HEPA FILTER HOSE 16 INCH</td>
</tr>
<tr>
<td>CVM1</td>
<td>3 STAGE 120 VOL VAC MOTOR</td>
</tr>
<tr>
<td>VMH27</td>
<td>VAC INLET HOSE</td>
</tr>
</tbody>
</table>
### Parts Listings

<table>
<thead>
<tr>
<th>PART #</th>
<th>PART DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1200 SERIES HEPA ASSEMBLY</td>
</tr>
<tr>
<td>FKEEP1200</td>
<td>FILTER KEEPER</td>
</tr>
<tr>
<td>CSS150</td>
<td>1/4&quot; COUPLING NUT</td>
</tr>
<tr>
<td>CSS149</td>
<td>1/4 x 3 STUD</td>
</tr>
<tr>
<td>HGAS</td>
<td>GASKET</td>
</tr>
<tr>
<td>CSS148</td>
<td>1/4&quot; WING FLANGE NUT</td>
</tr>
<tr>
<td>BAT1250</td>
<td>BLOW ATTACHMENT COVER</td>
</tr>
<tr>
<td>CSS148</td>
<td>1/4&quot; WING FLANGE NUT</td>
</tr>
<tr>
<td>HEPA</td>
<td>HEPA FILTER</td>
</tr>
<tr>
<td>CSS146</td>
<td>1/4&quot; PUSH RETAINER</td>
</tr>
<tr>
<td>CSS154</td>
<td>1/4 x 3&quot; BOLT</td>
</tr>
<tr>
<td>CSS201</td>
<td>SAFETY CAP</td>
</tr>
<tr>
<td></td>
<td>1200 SERIES SWITCH PANEL ASSEMBLY (SPA1215)</td>
</tr>
<tr>
<td>CSS17A</td>
<td>3/4&quot; SST SCREW</td>
</tr>
<tr>
<td>SWPL1215</td>
<td>PANEL PLATE</td>
</tr>
<tr>
<td>RS2</td>
<td>ROCKER SWITCH</td>
</tr>
<tr>
<td></td>
<td>CHEMICAL VALVE ASSEMBLY</td>
</tr>
<tr>
<td>CPS50</td>
<td>NYLON BALL VALVE</td>
</tr>
<tr>
<td>CSS21</td>
<td>SNAP GRIP CLAMP</td>
</tr>
<tr>
<td>CPS01</td>
<td>1/4INCH BRAIDED HOSE 1.25FT</td>
</tr>
<tr>
<td>CPS01</td>
<td>1/4INCH BRAIDED HOSE 2.18FT</td>
</tr>
</tbody>
</table>