

Vapor Rino[®] Owner's Manual



OWNERS MANUAL



120 Volt @ 200 max PSI & 220/240 Volt @200 max PSI

Covers Basic Operation of the new Upgraded Vapor Rino[®]
Vapor Steam Cleaning Systems



OWNERS MANUAL INTRODUCTION

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Vapor Rino® 120 Volt & 220/240 Volt Systems

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Important: Before using this machine read these instructions carefully.

It contains information necessary for safe operation ensuring the safety of the operators and any persons working nearby. Correctly following this manual enables the user to keep the machine in good working condition and reduces machine down time and risk of injury. Keep the manual in a suitable place where it can be easily accessed by the operator when needed. Following this manual does NOT remove your responsibility to work in a safe way using all due caution and applying common sense knowing you are working with a super-heated vapor steam generating machine. By using this machine, you agree to hold the resellers, vendors, warranty holder, Vapor Rino® and the factory not responsible for any accidents or injuries that may occur during any use of this product. Use it at your own risk. If you do not agree, do not use the machine. Thank you for your purchase. If you have any questions, please contact your reseller or place of purchase directly.

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SAFETY WARNINGS

To prevent **SERIOUS INJURY**, scalding or burning keep body & hands away from vapor output, steam ports and nozzle heads & tips. We strongly recommend **Wearing safety gloves and eye protection at all times**. **Never let Children operate** this machine. It is not a toy. If the machine malfunctions or leaks stay away from the steam output, turn off the machine immediately. If necessary to avoid the steam, simply unplug the unit and allow it to cool.

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING THIS VAPOR SYSTEM When using this cleaning system always use basic precautions, including but not limited to the following:

Warning -- To reduce the risk of Machine Damage, fire, electrical shock, burns or other injury:

1. **Do not** leave the appliance plugged in when unattended. Unplug the Vapor Rino from the outlet when not in use, or before servicing. **Turn your machine OFF** when you are not planning on using it for more than 30 minutes. This will reduce wear and tear and extend the life of your system and avoid accidents. Though it is tempting to leave the unit running all the time it is not recommended.
2. **Do not** leave the appliance plugged in when unattended. Unplug the Vapor Rino from the outlet when not in use, or before servicing. Keep out of the reach of children and unqualified users.
3. Use only as described in the manual. Only use original manufacturer attachments.
4. **Do not** use the Vapor Cleaning System with a damaged cord or plug. If the vapor system has been dropped, damaged, left outdoors, or submersed in water, arrange to have the system serviced.
5. **DO NOT PULL** or carry the vapor system by the power cord.
6. **DO NOT DRAG** or pull the vapor system by the steam hose. This WILL damage the hose. Hose is a wear item and is not under warranty so take care of it. You can always order a replacement, just give us a call.
7. DO NOT stretch, crush or step on the steam hose or power cord. Never close a door on the cord or hose.
8. **ALWAYS Turn the unit OFF** before unplugging. Do not unplug by pulling on the power cord
9. **ALWAYS**, after using detergents clean your injection system. Just run fresh water through the injection system before putting the unit away for the day. This will prevent your injection pump, filter and lines from becoming sticky and or clogged thus avoiding the need for service. Always flush this injection system with pure clean water. Run for at least 30 seconds+ until no soap is detected using clean fresh water. We will provide you with an extra jug for this.
10. **Do not allow** objects to get into or block the output nozzle or accessories. Do not try to operate the vapor system with any of the openings blocked. This may cause hose failure. Keep openings free of anything that may reduce steam flow.
11. **Keep all body parts of humans and animals away from nozzles** and any moving parts of the system
12. **Avoid Accidents**. Use extra care when using the vapor system on stairs or an incline. Use extra care when using around water sources including pools and saunas.
13. **NEVER** use the cleaning system to clean animals or other living creatures.
14. **Do not fill** the boiler refill tank with anything but clean or filtered tap water. **Do not use distilled water**, the sensors will not detect it.
15. **NEVER** use this system outdoors **IF** it is raining, snowing or there is any precipitation or threat of precipitation. Keep it dry and **DO NOT FREEZE** your Vapor Rino. Store your Vapor Rino in a save dry place that does not freeze.
16. **NEVER EVER Use any flammable or combustible liquids or materials** in, on or with this machine!!!
17. **Connect to a PROPERLY GROUNDED** Outlet ONLY. See grounding instructions.
18. **Drain:** If not in use for more than 2 weeks, you should empty your boiler. Simply loosen the drain nut on the bottom of the machine and allow the water to drain out. This may reduce the need to have the systems serviced in the long term.
19. Follow the **regular cleaning** and maintenance recommendations in this manual to maintain the health of your system



Grounding Instructions

WARNING: Your Vapor System **MUST BE PLUGGED INTO A GROUNDED OUTLET** or a dangerous electrical shock to the operator or damage to the unit may occur. This goes for both the 120v and 220/240V version. **Check with a qualified electrician if you do not know if your outlet is grounded.** Do NOT Modify the plug provided with your Vapor System. If it will not fit the outlet, then do not use the system. If it does not fit, you are trying to use the wrong outlet type.

THIS UNIT MUST BE GROUNDED If the unit should malfunction or break down, grounding provides a path of least resistance of electrical Current to reduce the risk of electrical shock or death. The unit is equipped with a cord having a grounding plug. The plug must be inserted into an appropriate outlet that is properly grounded in accordance with all local codes and ordinances.

EXTENSION CORDS: In the likely event that an extension cord is used with this system, use 10 gauge, 3 wire, grounded extension cord w/ correct plug type. Always use a heavy-duty extension cord with three prongs. Use of a light duty plug may cause damage to the internal circuit board. 12-gauge wire may be used in lengths under 25 feet on the 120V system. For the 120v cords over 25" must be 10/3-gauge wire. 10 gauge (10 ga is ideal) is highly recommended and can be used in lengths in excess of 50'.



WARNING – Improper connection of the equipment-grounding conductor can result in a risk of serious electric Shock. Check with a qualified electrician or service person if you are in doubt. Check whether the outlet is Properly grounded. Do not modify the plug provided of the steamer – if it will not fit the outlet, have a properly grounded outlet installed, plug into a different outlet or have one installed by a qualified electrician. If you use a generator, make sure it is grounded. See your generator operations manual.

Our systems come standard in 120 Volts (Picture shown at top of page) and in 220/240 Volts, what we call the 230Volt Vapor Rino. The 230v system comes standard with a 3 prong American NEMA 220/240v 6-15 plug.

EXTENSION CORDS: On 220/240v systems **ALL extension cords must be** of a 10/3 wire size. Anything less than a **10 gauge** wire will cause resistance and may cause your system to malfunction or cause damage to the electronics and even your generator. Use the appropriate size extension cord. 10-gauge cords can be used at a lengths exceeding 50+ feet. Call if you have questions.

Vapor Rino Details / Features / Parts

- 1) Integrated Cart Handle
- 2) Chemical Injection Tank (Use W/Water or Detergents)
- 3) Boiler **Water** Refill Tank
- 4) Hose Hangers
- 5) Accessories Basket

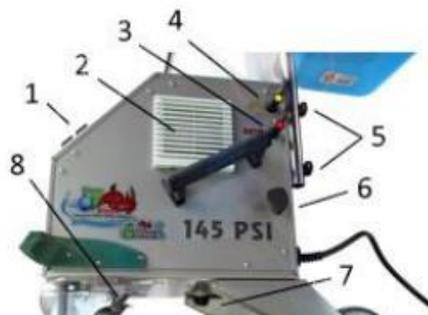


Locking Wheels



- 1) **Main Power Switch** (Must activate switches in order!)
- 2) **Boiler Switch** (Activate only after main switch is on)
- 3) Low Water Indicator Light (Orange Lens)
- 4) Boiler Activity Indicator Light (Green Lens)
- 5) Internal Boiler Pressure Gauge
- 6) "Monoblock" Main Steam Hose Outlet Hatch
- 7) 100% Variable Detergent Injection System Flow Control
- 8) 100% Variable Steam Flow Control

- 1) Control Panel
- 2) Exhaust / Cooling Vent
- 3) Color Coded Outlet Plug for Injection System
- 4) Color Coded Inlet Plug for Injection System
- 5) Easy Remove Heavy Duty Thumb Screws for Handle
- 6) Ear for Wrapping Cord - One on each side of machine
- 7) Easy thumb screw Drain Plug for Boiler Maintenance
- 8) Easy Locking Wheels



Starting Up Your Machine

Before You Start:

- Before you use this machine, check to see that the electrical current is the same as the voltage listed on this units identification plate! Never use an under powered generator. Our 120v system will run on a 3500 Running watt generator with no other items powered. Our 230V system will run on a generator with a minimum Running wattage of 4500 watts. If you plan on using a Vacuum at the same time add 1800 watts to these numbers. For more, see www.VaporRino.com or give us a call. Always use 10/3 gauge wire when using an extension cord.

Steamer Startup:

- Attach wheels. Place the water jugs into the holding rack and connect the color-coded plugs.
- Fill the water tank (Marked "Water Only") with pure, clean tap water. Fill to the top.
- Insert the 3-prong power plug into an appropriate outlet be it 120v or 220/240v.
- Press the lower main switch to the on position (#1 on illustration). You will see a small orange light glow in the switch. You will also hear a beep-like tone. Once the tone has stopped, wait 3 seconds then press the second switch (#2 on illustration) to the on position. This switch will also light up.

FOR FIRST STARTUP WITH AN EMPTY BOILER

If the machine low water alarm is activated (orange light #3 is on + audible alarm), turn the switch #2 off, leave it off for about 5 seconds and then switch it on again. Filling is automatically performed when Required by the water level sensor. If the beeping persists, turn off all the power buttons and begin again. Be sure to check your water connection. At this point you will hear some buzzing sounds coming from the machine. This is the transfer pump sending water to your empty boiler. It takes about 7 minutes for a fully empty boiler to fill up. Once that happens the machine will begin heating up

- Now that the boiler is full, the heating process will begin. Take notice of the green lensed light (#4). It will blink. Please note that the green Lense has an orange-like bulb under it. This will always be this color and is normal. You may have to look if you are outdoors or in a bright room to see the blinking light• The blinking green lensed light that the heating elements are on and heating up the water.
- For a 120Volt unit it will typically take about 20 minutes to come up to full heat. The 230V will take about 10+ min to heat. This does not include the time it takes to fill the boiler during your very first startup of if the boiler has been drained for storage prior to use.
- Once maximum pressure is reached, the green lensed light will stop blinking and go solid. This means that the system has reached its maximum pressure and has turned off the heating elements.
- There is a natural variation in steam pressures at full charge. Example: If you charge the unit the first time it may stop a few percent higher or lower than max PSI. After you pull the trigger and let some steam out, then stop you may notice that this time it charges a bit higher. Each time there will be a minor variation in final pressure. This is normal
- **ATTACH HOSE:** Connect your steam hose. Lift the Monoblock hatch (#6) and press the connection end firmly. Press hard and listen for a click. Once locked in place you are ready to begin.
- **The gun controls** must be set right to allow steam to come out. Holding the gun in your hand press the plastic covered switch on the left. You want the rocker switch to have the **DOWN side** pressed down toward your hand. The other switch needs to be in the opposite direction. Now you can pull the red trigger and begin using.



Injection System - Water or Soap

How to operate the hot water / hot chemical injection system with the Vapor Rino:

- First fill and warm up your system. Make sure you have steam flow and it is working before you attempt to use the injection systems. **The Injection system only works with steam on** so start with that. If you have trouble getting steam see the troubleshooting section. Once you have working steam flow, you can continue to try the injection system.
- **See Figure #001.** If you have not already done so, put the plastic "detergent" tank in place on the top right hand side of the machine. See image. Connect the two easy color-coded plugs as shown. They simply push into place.
- It is time to fill the solution tank. **See figure #001.** Note, the tank reads "Detergent Only". This tank **can be filled with either a liquid soap product, detergent, no rinse solution or simple tap water for rinsing.** Caution: If you use any chemical or soap product, be sure it is thinned out to a water like consistency so it can make its way through the filters. Always flush / run the injector with pure water at the end of the day! For testing, we recommend filling with clean TAP water from your sink. Tap water is safe to use with the injection system. Filling the injection system with clean tap water gives you hot water injection. Filling with soap gives you hot soap injection.
- The Vapor Rino injects soap or water at any PSI. To use the injection system you must do one of 3 things. 1) Fully heat up the system. 2) Fill the chemical tank with a cleaning solution or water. 3), press the injection rocker switch on the handle. Both rocker switches (steam & injection) must be on at the same time to operate the injection system. See button configuration to see how to activate the injector.

- **Activating the Injection System.** Once you are setup, and both tanks are full you are ready. For the first run you can just fill the “Detergent” tank with simple tap water. Activation is only a push of a button away! See the illustration directly below, Figure # 002. This is a close up of your steam gun's activation buttons. Switch #1 activates the steam flow. You will see a picture of a steam cloud on it. This should ALWAYS be on when using the injector. Holding the gun in your hand, look at the two buttons by your thumb. The rocker switch (#1) needs to have the DOWN side toward you and the up side away from you. The switch on the right (#2) is the injection pump switch. During steam only operation this switch should be opposite of the steam switch. When you want to inject water or soap, simply depress the rocker switch (#2) with the DOWN side of the switch toward you and your hand. This will activate the injector pump. You will hear a mild buzzing. It may take some time to fill the lines during the first use. Run it for about 30+ seconds or until you see water. Both switches are activated by the red button on the gun. Whatever setting you have with the switches, the red button will activate it when you pull it.
- If the injector motor runs but nothing happens, try adjusting knob #2 (shown to the right). Make sure the knob is turned all the way up. Try again. You should now have hot water or soap injection! Welcome to the Rino work force!



Important Care & Maintenance

- **Low Maintenance:** Your Vapor Rino is made using quality materials and as such requires relatively little maintenance, however proper maintenance and use is critical for reducing the potential for machine down time and service.
- All machines, no matter the type eventually require maintenance, service and repair. For this reason it is advisable to keep your original box and packing material. In the event that your system ever needs repair this will make sending it in to the nearest service center much easier. Repair and maintenance are both a normal part of using any vapor system used on a professional bases. Remember, repair is not disaster, but rather simple repair is part of any successful working business cycle.
- **Use Clean Pure Water:** Do Not use distilled, RO or DI water. Use only Clean water for your boiler refill tank. Using clean filtered water extends the life and performance of your machine. Many use clean tap water for your injection system. Cleaning your boiler is very easy, see cleaning section.
- **Do No Freeze:** Never leave your machine out in freezing weather even if stored in your vehicle. If the internal components freeze you can expect the water filled tubes inside may crack due to ice expansion. This may cause serious damage to the machine. If this happens, we can help. NEVER ALLOW TO FREEZE!
- **Store Indoors:** Store your machine indoors in a dry room temperature place. Do not store your machine outdoors or in a high humidity location.

It is not recommended to store in a work vehicle as high temperatures & radical changes in temperature may have negative effects in the long term.

- **Keep Clean: A clean machine is a happy machine!** Take pride in your new Vapor Rino and keep it clean. Wipe down often and clean accessories after each use. This reduces the likely hood of damage due to foreign matter getting into switches, nozzles or other components. It also makes your company look good! Keep it clean, keep it professional!
- **Turn Off:** Always turn your machine OFF when not in use for any extended period. Automotive Detailers and other users often turn on their machine and leave it running upwards of 6 to 10 hours a day without giving it a rest. This is not recommended unless you are actually using the unit. This is unique to vapor systems as they make very little sound, thus giving the appearance of not taking any wear. The fact is our high powered Vapor Rino produces internal temperatures upwards of 380 Degrees Fahrenheit. This intense heat may some cause wear. For this reason it is advisable to press the **OFF button on your steamer if you are not going to use your steamer** for more then **20 to 40 minutes**. This reduces wear time and may reduce the frequency of service and repair. Remember, once fully heated the Vapor Rino recovers very fast once turned back on. Contrast this 6 to 10 hours of non stop usage with your other power tools. Most users would never consider running a shop vacuum, an extractor motor or other power tool for 8 hours a day no stop for months on end and not expect to require service at some point. Simply turn your vapor system off when not in use.
- **Drain Boiler:** Always empty your boiler if you do not intend on using your machine for more then 14 days. Long term storage of your steamer with water in it may cause a swamp water like effect in your system. This may lead to sensor failure. If your going to pack it away for the season, just drain the boiler before you do. Easy drain plug on bottom.
- **How To Drain Boiler:** Simply cool down your machine **completely** making sure their is ZERO pressure reading on the pressure gauge AND the steamer's body including the bottom are cold to the touch. Let it sit overnight unplugged if you are unsure. Once depressurized and cold drain the water from the bottom of the machine using the easy thumb screw drain plug. Allow to drain until no more water comes out. It is a fast and simple process that is strongly recommended. Following this simple procedure may extend the life of your system and reduce the need for repair or service over time.
- **Clean Your Boiler:** It is advisable to de-mineralize your boiler after approximately 100 to 400 hours of use. For typical use this means cleaning your system once every 4 to 8 to weeks. Using filtered water (Strongly recommended) reduces build up of gunk in your boiler.
- **How to Clean Your Boiler:** Cleaning is easy. Simply drain the boiler using the drain plug on the bottom of the machine (be sure unit is **cold first!**) and empty the water in the refill tank that sits on top of the machine. Use the same kind of solution you would use when cleaning your coffee maker. Distilled White Vinegar is cheap and works great. See your local grocery store. Fill the top left Jug with this **50/50 solution of White Distilled Vinegar & water**. Turn on the machine and let it pump the solution down into the tank. This may take a few minutes. **DO NOT LEAVE UNATTENDED** while on! **DO NOT FULLY HEAT THE MACHINE UP! DO NOT ACTIVATE THE STEAM GUN WITH SOLUTION INSIDE. This will clog your jets!** Once the transfer is complete (pump will stop buzzing) simply turn your machine off and unplug it. Let it sit for 6 to 12 hours (overnight) for maximum de-scaling and cleaning effect. NEXT: Gently shake unit & Drain the boiler completely. Catch and examine dirty water. Remember, empty it all. Also empty the vinegar solution from the refill tank located on the top of the machine and rinse it out. Fill this tank with fresh clean water. Put the drain plug back in the bottom of the machine and turn it on. Let the boiler fill but **DO NOT HEAT THE MACHINE**. Once the boiler is full, **empty the boiler again**. Gently rock the machine back and forth to help shake out any dirty material that may be in the boiler. Repeat this process until you get pure clean water out of the boiler. Once done, replace the drain plug and go back to normal use. Your boiler is now tuned up and ready for action.

Troubleshooting

HELP ME - SOMETHING IS NOT WORKING!

Call us for help if you still have a problem. We are happy to help.



Take a deep breath - help maybe just a few sentences away! 99% of the time the problem is just a simple adjustment so let's have a look. Most of the calls or e-mails we get regarding a perceived problem with a new machine is simply a minor misunderstanding on how to operate, proper cords or timing of switches.

1) Why won't the orange lights turn green?

- The light bulbs are orange and never turn green. The green lens on the right is your boiler indicator light. It has an orange bulb under it. When it blinks or goes solid it appears orange. Again, this is normal and is simply the color of the bulb. It is still called

the "green light"

2) I have full pressure on the gauge but when I pull the trigger nothing comes out. What can I do?

- First: Be sure you are properly plugged in, all the switch lights are working, and you have full pressure on the gauge. If not, see the operating your machine section.
- Next: Connect your steam hose to the machine. Be sure it clicks in firmly. Now pull the trigger for several seconds. If nothing...
- Next: Holding the gun in your hand look at the two buttons by your thumb. The switch on the left (#1 in picture to the left) activates the steam, it has a picture of a steam cloud on it. This rocker switch needs to have the DOWN side toward you and the upside away from you. The switch on the right (#2) is the injection pump switch, it has a picture of a water faucet on it. This needs to be opposite of the steam switch (#1). If the switch on the LEFT (#1) is set wrong, you will not get steam. When in doubt, try both ways but the downside needs to be down towards your hand and the other switch (#2) the opposite way. Try steaming now
- Next: THIS IS A VERY COMMON ISSUE. Often the steam flow adjustment knob gets turned down. See picture to the right. If that pressure adjustment gets turned down all the way it shuts off the steam flow. It works much like an outdoor garden water faucet or hose spigot. Turn it all the way up, full flow, all the way down = off no flow. The best way to adjust this is to pull the steam gun trigger while turning the knob. This is also how you will adjust steam flow for various jobs. Just steam and adjust as you watch the steam flow coming out of the nozzle tip.
- Next: Back to basics. Turn both main control buttons on the machine off. Power it down. Now carefully press the main power button on. You will hear a clear beep like tone. **WAIT 3 SECONDS** before pressing the top button. Once that tone stops and you wait 4 seconds turn on the second button. The machine should now be warming, and the "green" light should be blinking. Notice the pressure gauge. Be sure there is steam pressure in the boiler, if not wait about 15 minutes for it warm up. This means it is ready. A new machine with an empty boiler takes longer as the boiler needs to be filled before it can begin heating.
- Next. Try all of the above again. Be sure the steamer is up to pressure. Check the main switches on the gun. Be sure both the main buttons are ON on the machine. **IMPORTANT: If you turn the buttons on OUT OF ORDER the unit will not produce steam.** Now that you have completed these tasks and the boiler is charged pull the trigger, adjust the thumb button and adjust the pressure knob.
- If you still have trouble, give your re-seller a call. Have the unit ready to do a walk through to trouble shoot it on the phone.
- See website for more troubleshooting and videos.

Limited Lifetime VIP Warranty Information

1 Year Parts & Labor | 2 Years Parts | Lifetime Boiler

The warranty is held by Vac International and/or the factory. Contact your vendor directly (Place you purchased from) for warranty related issues.

Any use of this product constitutes acceptance of and approval of the terms of this warranty. The factory warrants to the original purchaser that this product, excluding accessories shall be free from defects in manufacturing and material, under normal and reasonable use for a period of one Year parts and labor for internal components. A limited lifetime warranty is granted for the Boiler and 2 Years on parts from date of sale. The sole and exclusive remedy under this warranty is repair or replacement at the manufacturers or warranty holders' option, of any product that proves to be defective in manufacture or materials within the above stated period. This warranty is NOT transferrable between persons or entities and applies only to the original purchaser as shown on the original sales receipt. Repair or service does not extend the warranty. The warranty is from the date of original purchase.

Units are not refundable. There will be no cash refunds on equipment that has been used.

For this warranty to apply, the owner must follow the instructions provided in this manual completely. A copy of the original invoice must accompany the unit when it is returned for service, together with a note explaining the problem. It must be shipped in a protective carton, in the original box if possible. We recommend that the shipment be insured against loss or damage in transit. The manufacturer or dealer or repair center is not responsible for damage of this kind. You are responsible for all shipping costs to and from any repair center in the event service is needed.

Certain parts of the equipment are not covered by warranty because they require replacement in the course of use, due to normal wear and tear, by reason of their characteristics. These are things like cords, hoses, switches, brushes, wheel ect.. The steam hose and gun is not covered under this warranty. Due to their nature, they take heavy abuse and or use and as such may require replacement from time to time.

The warranty is void if:

- 1.** Damage results from accident, misuse, fire, act of God, improper operating, use of voltage other than indicated, or unauthorized repair or alterations, wrong extension cords, under powered or overtaxed generators, use with cut, worn or damaged wires or cords.
- 2.** Never put anything in the boiler except clean water. The boiler has had any substance other than clean pure water added to it warranty may be void. This holds true with any steam generating device. Some water supplies have very heavy concentrations of minerals, other particles, and even corrosive, toxic chemicals like fluoride and chlorine just to name a few added by your local government, so it is a good idea to use filtered water.
- 3.** The product has been used by an unauthorized person

The manufacturer, distributor, importer, warranty holder or reseller is not liable for any consequential or incidental damage, including personal injury, property damage, or monetary loss that may incurred from purchase, use, or improper use of the product. Maximum liability shall not exceed the purchase price of the product, paid by the original purchaser. All expressed and implied warranties for this product, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the warranty period, and no warranties, expressed or implied, will apply to the warranty period. Some states do not allow the exclusion or limitation or consequential damages, so the above exclusion may not apply to you. This warranty gives you special rights which may vary from State to State. Warranty may change or be updated without notice. The factory or warranty holder does not authorize any party to assume any other warranty obligation with the sale of this product. This warranty is NOT transferrable between persons or entities and applies only to the original purchaser as shown on the original sales receipt. Repair or service does not extend the warranty. Warranty cannot be honored without proof of purchase by the original owner. Warranty is from the date of original purchase. Use of this product constitutes acceptance of these terms.