



SAFETY MANUAL & INSTALLATION GUIDELINES

KEEP THIS MANUAL WITH THE VENDOR AT ALL TIMES READ MANUAL
BEFORE INSTALLATION OR SERVICE

1. INTRODUCTION

The safety precautions outlined within this manual are intended to alert the users of this equipment of potential dangers and hazards involved in the installation, maintenance, servicing and operation of our equipment. The warnings and precautions contained within this manual **does not** in any way cover all of the possible dangers or hazards that could be encountered, however it is intended to provide basic safety guidelines for proper maintenance and servicing.

It is important to understand the function and operation of the equipment. Hazards to both those servicing the equipment and to the users of the equipment can occur as a result of improper installation, poor or improper maintenance and improper servicing of the equipment. Carefully read all Service Manuals pertaining to the equipment to become familiar with all areas and functions. Follow all warnings and cautions referred to in the Service Manuals of the equipment along with the warnings and information outlined herein. This will minimize the potential hazards and reduce the risk of personal injury to service personnel. Only properly trained service personnel should have access to the interior of the machine.

2. INITIAL INSTALLATION

Read and follow all instructions outlined in the vendor Service Manual. Listed below are the basic rules or steps that should be followed at the initial installation of any vending equipment?

1. Carefully plan the route to be taken, making sure that you have adequate manpower and proper equipment to safely handle the product. Vending machines are relatively large and bulky of sufficient size and weight. Improper handling can result in injury.
2. Remove all exterior packing material from the vendor in a manner not to damage the finish.
3. Remove the wooden shipping pallet or base. Make sure the leveling screws for the vendor are in place and functional.
4. Position the vendor in its place of operation on a flat or smooth surface no further than 9 feet (2.74 meters) from the power source and check that the door will open fully without interference.
5. leave at least 4 inches (10 cm) of space between the back of the vendor and any wall or obstruction for proper circulation.
6. level the vendor to compensate for any irregularities of the floor, making sure **all levelers** are touching the floor. When the vendor is level, the door can be opened to any position and not move by itself. Try the door half closed, straight out and in the wide open position before deciding the vendor is level.
7. Remove all tape and shipping material used to secure interior parts during transit.

3. GROUNDING & ELECTRICAL

WARNING Always check and verify
proper grounding prior to
Installation to reduce
risk of electrical shock and
fire. DO NOT USE

EXTENSION CORDS

Refer to the vendor Service Manual for the recommended electrical requirements. To insure safe and proper operation the electrical power source must be a properly polarized, grounded, isolated and/or dedicated noise free circuit. Check the power supply before connecting the vendor. Any power supply not coinciding to the perimeters outlined below could cause the vendor to malfunction.

115 Volt Vendors: Power Source must be 120 VAC ($\pm 10\%$) 60 Hz

230 Volt Vendors: Power Source must be 230 VAC ($\pm 10\%$) 50 Hz

230 VOLT VENDORS

1. **Voltage Check:** With a Volt-Meter set to check AC line voltage, insert one connector to the Hot terminal and the other connector to the **NEUTRAL** terminal. The voltmeter should indicate 207 to 253 Volts AC. See Figure 1.

2. **Polarity and Ground Check:** With a Volt-Meter set to check AC line voltage, insert one connector to the HOT terminal and the other connector to the **GROUND** terminal. The voltmeter should indicate 207 to 253 Volts AC. See Figure 1.

3. **Amperage Check:** At the fuse box or circuit breaker panel, locate the proper circuit, and ensure that the amperage reading of the fuse or breaker protecting the circuit, is a minimum of that specified in the vendor Service Manual or greater.

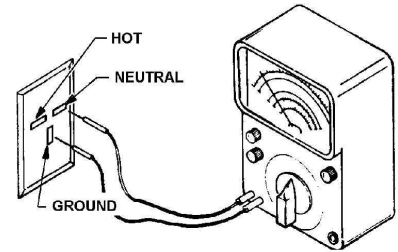


Figure 1. 230 Volt Outlet

NOTE The GROUND pin is the slot that is positioned perpendicular to the other two slots. In a standard three (3) prong 230 volt wall outlet the NEUTRAL pin is located counter-clockwise from the ground pin and the HOT pin is located clockwise from the ground pin. See Figure 1.

115 VOLT VENDORS

1. **Voltage Check:** With a Volt-Meter set to check AC line voltage, insert one connector to the HOT terminal and the other connector to the **NEUTRAL** terminal. The voltmeter should indicate 103 to 126 Volts AC. See Figure 2.
2. **Polarity and Ground Check:** With a Volt-Meter set to check AC line voltage, insert one connector to the **HOT** terminal and the other connector to the **GROUND** terminal. The voltmeter should indicate 103 to 126 Volts AC. See Figure 2.
3. **Amperage Check:** At the fuse box or circuit breaker panel, locate the proper reading of the fuse or breaker protecting the circuit, is a minimum of that specified in the vendor Service Manual or greater.

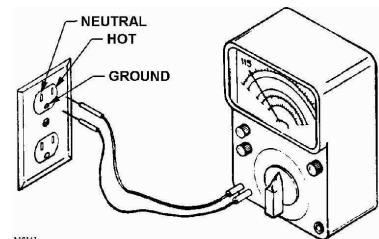


Figure 2.115 Volt Outlet

NOTE The "HOT" side of the outlet should always be counter-clockwise from the "GROUND" terminal, with the ground terminal at the bottom. The "NEUTRAL" terminal will be clockwise from the "ground" terminal. See Figure 2.

If you find that the receptacle is not properly grounded or polarized and the above electrical specifications are not met, contact a licensed electrician and have the necessary corrections made.

4. ELECTRICAL HAZARDS

WARNING **Check and verify proper voltage, grounding and polarization before connecting vendor to power source.**

Careless or improper handling of electrical circuits or components can result in injury or death. Anyone installing, repairing, loading, opening, or otherwise servicing a vending machine should be aware of this.

Machines should be connected to the proper power source. Refer to service manuals on the specific machine for the power source required. The procedure for checking the power source for proper voltage, grounding and polarity is covered in the Installation section of this manual. Follow these procedures along with the procedures outlined in the machine service manual before connecting the vendor to the electrical power source.

Included in the construction of the vendor will be grounding wires, color coded green for 115 volt machines and green/yellow for 230 volt machines. During the maintenance and servicing of the vendors it may become necessary to disassemble these grounding wires. **Always** reassemble these wires before reconnecting the power to the vendor.

Listed below are some basic precautions that should be followed, however, **all normal precautions should be taken** when servicing or repairing electrical circuits:

- Refer all servicing to qualified personnel only.
- Use only power supplies that are properly polarized and grounded.
- Power supplies should be protected with fuses or circuit breakers.
- Replace any grounding wires if removed during servicing or repair.
- Unplug the vendor from the power source before servicing or repair.
- Replace any wiring if there is evidence of fraying or other damage.
- Keep protective covers in place.
- All electrical connections must be dry and free of moisture before applying power.

SERVICING & MAINTENANCE WITH "POWER OFF"

Remove the power cord from the wall outlet before servicing or repairing the vendor. This will remove all power from the equipment. Turning the "Power Switch" to the off position on some vendors does not guarantee that the power is removed from all components. Service personnel should remain aware of possible mechanical hazards and hazards from hot components even though the electrical power has been removed.

SERVICING & MAINTENANCE WITH "POWER ON"

WARNING **Servicing with power on should be performed only when necessary and always maintain maximum clearance from both live circuits and moving parts.**

Servicing the machine with the power on is not recommended; however, in some instances it will become necessary. This type of servicing should be performed by fully qualified and trained service personnel only. Extreme caution should be taken when performing any service or repair on the vendor with the power "on". Do not remove any protective covers when servicing with power on except when absolutely necessary. Exposure to live circuits and mechanical moving parts create potential hazards. Replace all tubing, sleeving, insulating materials and protective covers to their original position.

REFRIGERATION HAZARDS

WARNING **Servicing should be performed by qualified personnel only. Always wear eye protection when working with refrigeration systems.**

Refrigerated equipment present potential hazards or dangers in both the electrical and mechanical sections outlined within this manual.

Caution is required when servicing and repairing refrigeration systems. The pressures contained within the components represent a potential hazard if suddenly released. Always wear protective glasses when working with or near refrigeration systems. The release of refrigerant gases can result in eye injuries. Use proper tools and equipment when performing maintenance and pressure tests. All testing should be performed by trained personnel who are familiar with the systems and pressures involved. **Repair and servicing should be performed BY fully qualified and trained service personnel only.** Servicing by unqualified personnel can be dangerous.

5. MECHANICAL HAZARDS

WARNING Remove power from machine before attempting to clear product jams to prevent possible injury. Stay clear of all **moving parts while servicing and loading.**

Keep fingers, hands, tools, hair, loose clothing and any foreign material clear of all moving parts or components. Moving parts create the risk of entrapment and possible injury. Care should be taken while loading and servicing this equipment. Remove power from the machine before attempting to remove or clear product jams.

Use caution and follow instructions outlined in the machine service manual along with the warnings outlined in this manual to reduce the risk of potential hazards and possible injury.

Some components are large and/or bulky in both size and weight. Improper handling can result in injury. Care should be taken to assure that adequate manpower and equipment is available to accomplish the task safely.

TEMPERATURE HAZARDS

Heating elements, used on hot beverage machines involve potential hazards to service personnel. High temperatures may be present on components even though the power has been removed. Service and maintenance personnel should be alerted to potential hazards from hot liquids and/or hot metal.

SUBSTITUTIONS & MODIFICATIONS

Unauthorized substitutions and/or modifications or altering the original design of this equipment can result to unsafe conditions or malfunctioning. This could result or create potential hazards to either service personnel or equipment users.

Refer to the service manual and parts catalog pertaining to the equipment for recommended replacement components and servicing instructions. Use only factory authorized replacement parts. If questions arise contact:

VendNet^M

Phone: 515-274-3641

Parts Fax: 515-987-4447

Sales Fax: 515-274-0390 E-Mail:

vendnet@vendnet.com

or your local Service Representative for guidance.

When servicing the equipment always reassemble all components to their original position. **Do not** eliminate any covers, protective devices or circuits.

USER WARNING



If sufficient force is applied this equipment can be overturned and may result in serious injury or death.

A decal has been made available and will be provided with each machine to warn of the potential danger in shaking, rocking, or tipping of this equipment. This machine will not dispense free product if tipped, however there has been incidents, including fatalities, when vending machines have been vandalized in an attempt to obtain free product or money.

This decal should be placed on the equipment in full view of the equipment user, at eye level.

Additional decals are available from VendNet™ P.O. Box 488 165 North 10th Street Waukee, IA 50263-0488 or your local Service Representative.



**Do not rock or tilt, may cause serious injury or death.
Machine will not dispense free product if tipped.**