

# INSTALLATION AND SET-UP GUIDE

## SERIES 90 VENDERS

903,901,600.21

Please read this manual in its entirety. This service information is intended to be used by a qualified service technician, who is familiar with proper and safe procedures to be followed when repairing, replacing, or adjusting any Dixie-Narco vender components. All repairs should be performed by a qualified service technician who is equipped with the proper tools and replacement components, using genuine Dixie-Narco factory parts.



**REPAIRS AND/OR SERVICING ATTEMPTED BY UNQUALIFIED PERSONS CAN RESULT IN HAZARDS DEVELOPING DUE TO IMPROPER ASSEMBLY OR ADJUSTMENTS WHILE PERFORMING SUCH REPAIRS. PERSONS NOT HAVING A PROPER BACKGROUND MAY SUBJECT THEMSELVES TO THE RISK OF INJURY OR ELECTRICAL SHOCK, WHICH CAN BE SERIOUS OR EVEN FATAL.**

### RECEIVING INSPECTION

Upon receipt, inspect the vender for any shipping damage. If there is any damage, have the driver note the damage on the bill of lading and notify Dixie-Narco. Although I.C.C. regulations require that the consignee originate shipping damage claims, Dixie-Narco will be happy to assist you if you must file a shipping damage claim.

### UNPACKING THE VENDER

Remove the stretch wrap and top cover from the vender.

**NOTE: DO NOT STORE THE VENDER OUTSIDE WITH STRETCH WRAP ON. THIS COULD CAUSE THE STRETCH WRAP TO BOND TO THE VENDER'S SURFACE, WHICH COULD DAMAGE THE FINISH.**

**Remove the shipping boards from the bottom of the vender.** The shipping boards are attached by the leveling legs. To avoid unnecessary damage to the leveling legs or base, remove the shipping boards by using a 1-1/2 inch "socket type" wrench to unscrew the leveling legs. Be sure to replace the legs after removing the shipping boards.

To open the vender, locate the door lock keys that are located inside the coin return cup. After unlocking the door, rotate the T-handle counterclockwise until the door can be opened. Once inside, remove and discard the wood shipping block from the bottom right side of the cabinet. Check the coin box, under the can/bottle chute, and between the column walls for any additional flavor strips, additional parts, pricing labels or information concerning factory installed parts such as coin mechanism, validator or card reader. Check the T-handle for proper alignment with the cabinet and locking functions. Check the lamp for proper operation.



**WARNING: ENSURE THAT POWER IS DISCONNECTED FROM THE VENDER OR THAT THE POWER INTERRUPT SWITCH (IF PROVIDED) IS NOT DEFEATED BEFORE INSPECTING OR REPLACING THE LAMPS. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY SUBJECT THE USER TO THE RISK OF ELECTRICAL SHOCK, WHICH CAN BE SERIOUS OR FATAL.**



**WARNING:** DO NOT STORE ANYTHING OR ALLOW DEBRIS OF ANY KIND TO ACCUMULATE IN THE BOTTOM OF THE DOOR, IN AND AROUND THE REFRIGERATION COMPARTMENT OF THE CABINET, OR IN FRONT OF THE EVAPORATOR AND CONDENSER COILS.

## ELECTRIC POWER REQUIREMENTS

Refer to the cabinet serial number plate/label to determine the proper voltage and frequency required by the vender. The cabinet serial number plate/label also indicates the amperage or wattage required by the vender. Single phase, alternating current is required. The vender must be plugged into its own properly rated circuit with its own circuit protection (fuse/circuit breaker) in accordance with the National Electrical Code and local codes and ordinances.

**DO NOT USE AN EXTENSION CORD**

## GROUND THE VENDER

The vender is equipped with a three-wire power supply cord and must be plugged into a properly grounded outlet. **DO NOT REMOVE THE GROUND PIN OR IN ANY WAY BYPASS, MODIFY, DEFEAT, OR DESTROY THE GROUNDING SYSTEM OF THE VENDER.** If the outlet will not accept the power cord plug, contact an electrician to install a proper AC outlet.



Warning

**WARNING:** FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY SUBJECT THE USER TO THE RISK OF INJURY OR ELECTRICAL SHOCK, WHICH CAN BE SERIOUS OR FATAL.

## PLACING THE VENDER ON LOCATION



**CAUTION:** DO NOT TRANSPORT THE VENDER TO OR FROM THE LOCATION LOADED WITH PRODUCT OR DAMAGE TO THE VENDER MAY RESULT.

The vender must be located on a solid, flat, and level surface. Ensure the surface can bear the weight of a fully stocked vender. The vender must be positioned close enough to an electrical outlet so that an extension cord is not required. If the machine will be subject to user misuse or vandalism, it is recommended that that vender be secured to the floor or wall as described in *Dixie-Narco Technical Bulletin No. 344*. Call the Dixie-Narco Technical Service Department or your Dixie-Narco Representative for assistance.

## LEVEL THE VENDER

Level the vender. When the vender is level, the door can be opened to any position and it will not move by itself. Open the door to several different positions before deciding that the vender is level. A carpenter's level will help verify the machine is level. Make sure that all of the leveling legs are in contact with the floor. If you cannot level the vender in its current location, select another location. **DO NOT PLACE ANY OBJECTS UNDER THE MACHINE!**



**DANGER:** THE VENDER MUST BE PROPERLY LOCATED AND LEVELED. IF THE MACHINE WILL BE SUBJECT TO USER MISUSE OR VANDALISM IT IS RECOMMENDED THAT THE VENDER BE SECURED TO THE FLOOR OR WALL AS DESCRIBED IN DIXIE-NARCO TECHNICAL BULLETIN NO. 344 TO MINIMIZE THE RISK OF INJURY OR DEATH FROM TIPPING. CALL DIXIE-NARCO TECHNICAL SERVICE DEPARTMENT, OR YOUR DIXIE-NARCO REPRESENTATIVE FOR ASSISTANCE.

## SPACE THE VENDER

Do not block the rear of the vender. Maintain a minimum of 4 in. (10 cm) from the wall to ensure adequate airflow to the condenser and compressor. At the front of the vender, make sure that nothing obstructs the air intake at the bottom of the main door. At the rear of the vender, make sure nothing obstructs the air exhaust at the bottom of the cabinet.

## INSTALLING FLAVOR CARDS CIRCULAR OR FLAT FULL LENGTH SIGN

The flavor cards are inserted into the back of the selection buttons. Where applicable, swing the coin changer mounting plate away from the outer door exposing the back of the select buttons. The flavor cards are perforated on the right side. Bend the flavor card 90 degrees at the perforation so that the right edge is toward the back of the flavor card. This will aid in easy installation and removal of the flavor card. The flavor cards can now be inserted into the back of the selection buttons from the left side. Ensure that the flavor cards are placed in the selection buttons that correspond to the columns in which the product is loaded.

## DISPLAY VENDERS

Remove bag of arrows, price labels and button caps from the cash box. Referring to the product installation chart below (Fig. 1), place price sticker on arrow and place arrow in the clear plastic cap noting that the bottom row of buttons point downward. Next, install clear cap with arrow onto selection switch and push firmly until cap snaps into place.

## INSTALLING PRODUCT IN DISPLAY

Open main door and open inner door to gain access to product display box. Locate the two locking tabs at the top and bottom left side of the display box. Lifting these two tabs will allow the product display box to swing open. Again referring to figure 1, carefully install the product into the clips provided being sure not to puncture the display product.

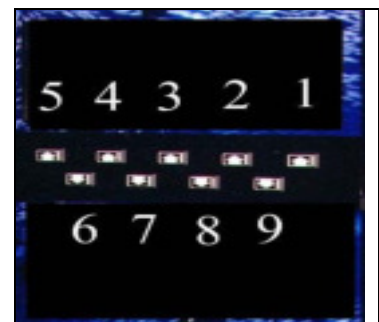


Figure 1

# GE TEMPERATURE CONTROL ADJUSTMENT

## Adjustment #1 – GE Temperature Adjustment

The GE Temperature control is factory preset at position #4 as shown in figure 2. Turn the Temperature adjustment screw shown in figure 2 in a clockwise direction for colder product or in a counter clockwise direction for warmer product.

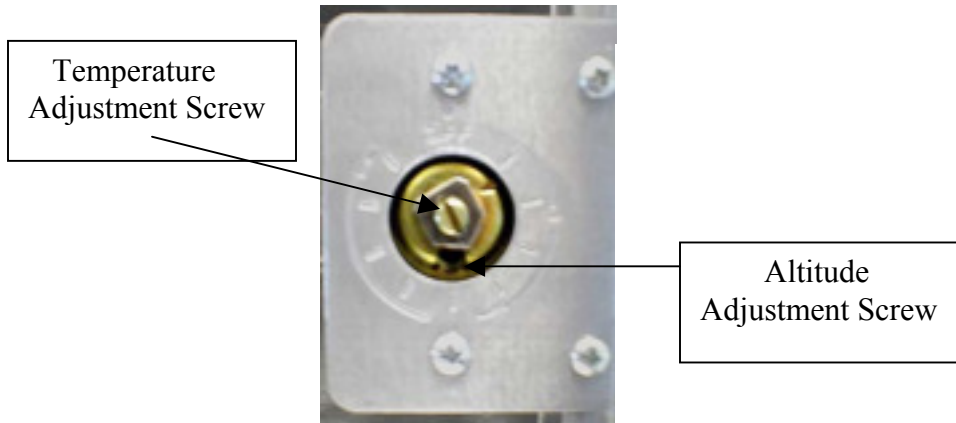


Figure 2

## Adjustment #2 – GE Temperature Control Altitude Adjustment



**WARNING: DISCONNECT POWER TO THE VENDING MACHINE BEFORE PROCEEDING WITH THIS ADJUSTMENT.**

The control is factory set for an altitude of 500 feet (152 meters). For higher altitudes, adjust the altitude correction screw shown in figure 2 in a clockwise direction according to the chart below (figure 3).

<p>This scale may be used as a guide for measuring degrees of rotation required for altitude correction. The arrows indicate direction of screw rotation. 1/60 of a turn equals 6 degrees of rotation</p>		<p>Altitude Correction Table: Both Cut-In &amp; Cut-Out Must Be Adjusted</p>	
		<p>Altitude, Feet</p>	<p>Counter Clockwise Turns</p>
<p>Turn cut-in or cut-out screws clockwise to obtain colder operating temperatures.</p>	<p>Type "Q" Control (Constant Cut-In)</p>	2000	7/60
		3000	13/60
		4000	19/60
		5000	25/60
		6000	31/60
		7000	37/60
		8000	43/60
		9000	49/60
		10000	55/60

Figure 3

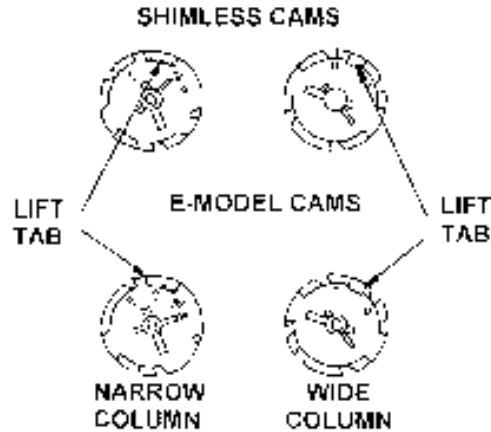
# LOADING INSTRUCTIONS

## PRODUCT SHIMMING

Dixie-Narco venders are shipped ready to vend 12 oz. (330ml) cans unless another package was specified at the time the vender was ordered. To vend an alternative package, contact Dixie-Narco Technical Service or refer to the appropriate Dixie-Narco set up information for the package to be vended.

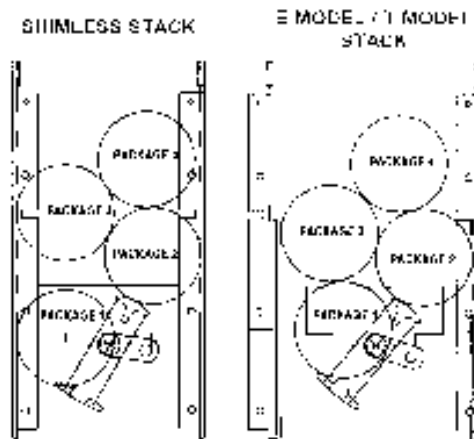
### II. Vend Motor Cam Adjustments

Locate the lift tab on the outer edge of the adjustable cam. Lift the tab and rotate the cam to the required setting.



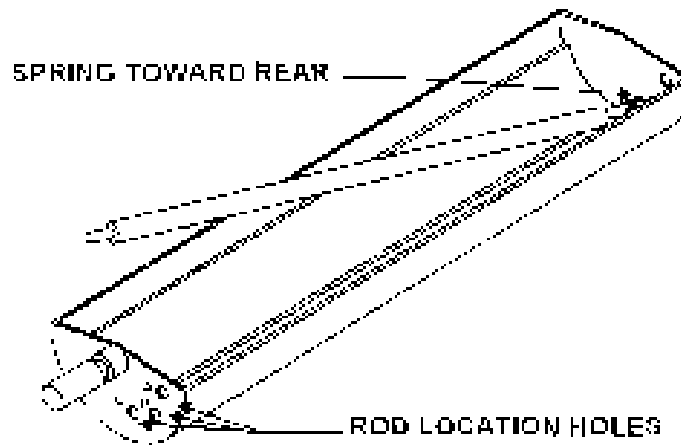
### III. Package Loading (Wide Column)

Position the oscillator as shown below. Load packages 1,2,3, and 4 as shown, in both the front and the rear of the column. The front and the rear product must be loaded evenly. Load all products with the top of the product facing the rear of the vender, unless instructed otherwise.



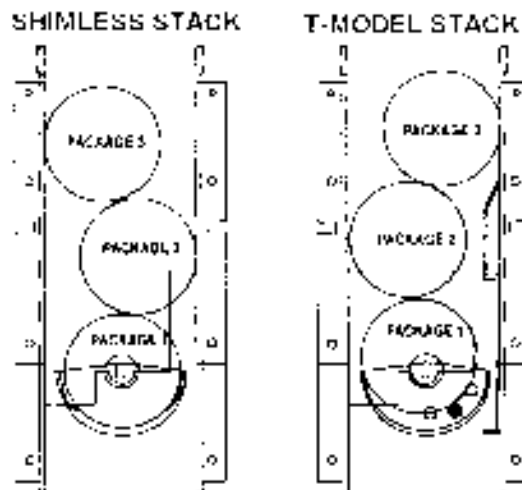
**IV. Rod and Spring Assembly installation (Narrow Column)**

Insert the rod as shown below. Refer to the appropriate Technical Bulletin or refer to the appropriate Dixie-Narco set up information for the package to be vended for the proper position of the rod.



**V. Package Loading (Narrow Column)**

Position the rotors as shown. Load the packages numbered 1, 2, and 3 as shown in both the front and rear of the column. The front and the rear product must be loaded evenly. Load all products with the top facing the rear of the vender, unless instructed otherwise.



## CLEANING THE VENDER



**DO NOT USE A WATER JET OR NOZZLE TO CLEAN THE VENDER**

### SIGN FACE

The polycarbonate sign face requires proper cleaning to prolong its service life. It is recommended that you periodically inspect and clean the sign face as follows:

- Unplug the vender
- Inspect the sign face for any damage.
- Rinse the sign with a soft cloth or sponge soaked in warm water
- If necessary, use a mild soap or loosen any dirt or grime. To prevent damage, **DO NOT SCRUB** or use a brush or squeegee, as some signs have a clear ultraviolet resistant coating to prevent yellowing.
- Repeat the above steps as necessary
- To prevent spotting, dry the sign with a soft cloth

### CABINET

- Unplug the vender.
- Wash the cabinet with a good detergent or soap mixed in warm water.
- Wax the vender often with a good grade of automotive wax.
- Any corrosion inside the vender should be removed with fine steel wool and the area should be painted with aluminum paint.
- Repair any scratches on painted surfaces to prevent corrosion.



The compressor electrical circuit is always live when the plug is connected to an electrical outlet.

### REFRIGERATION CONDENSER

- Check the condenser periodically for dirt or lint build up.
- Remove the build up with a brush or vacuum, or blow the dirt out of the condenser with compressed air and approved safety nozzle.
- Ensure nothing obstructs air intake at the bottom of the main door.
- Ensure nothing obstructs air exhaust at the rear of the cabinet.

## **DRAIN PAN/SOAKERS**

- Check the drain pan & soakers periodically for dirt, debris, and proper alignment.
- Remove any dirt and debris by removing the drain pan, cleaning pan and soakers, and reinstalling.
- Ensure nothing is obstructing the drain tube and drain hose.

## **COIN ACCEPTOR**

- Follow the Coin Acceptor Manufacture's Instruction.

## **Recommended Maintenance Schedule**

<b>Time</b>	<b>Component</b>	<b>Lubricant Example</b>
Every Six Months (or as needed)	<b>Main Door</b>	
	1. Lock Bolt and Nut Retainer	Mechanics Friend
	2. Hinge Pivot Points	Mechanics Friend
Every Year (or as needed)	<b>Inner Door</b>	
	1. Hinge Pivot Points	Mechanics Friend
Every Year (or as needed)	<b>Inner Door</b>	
	1. Door Gasket	Petroleum Jelly

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