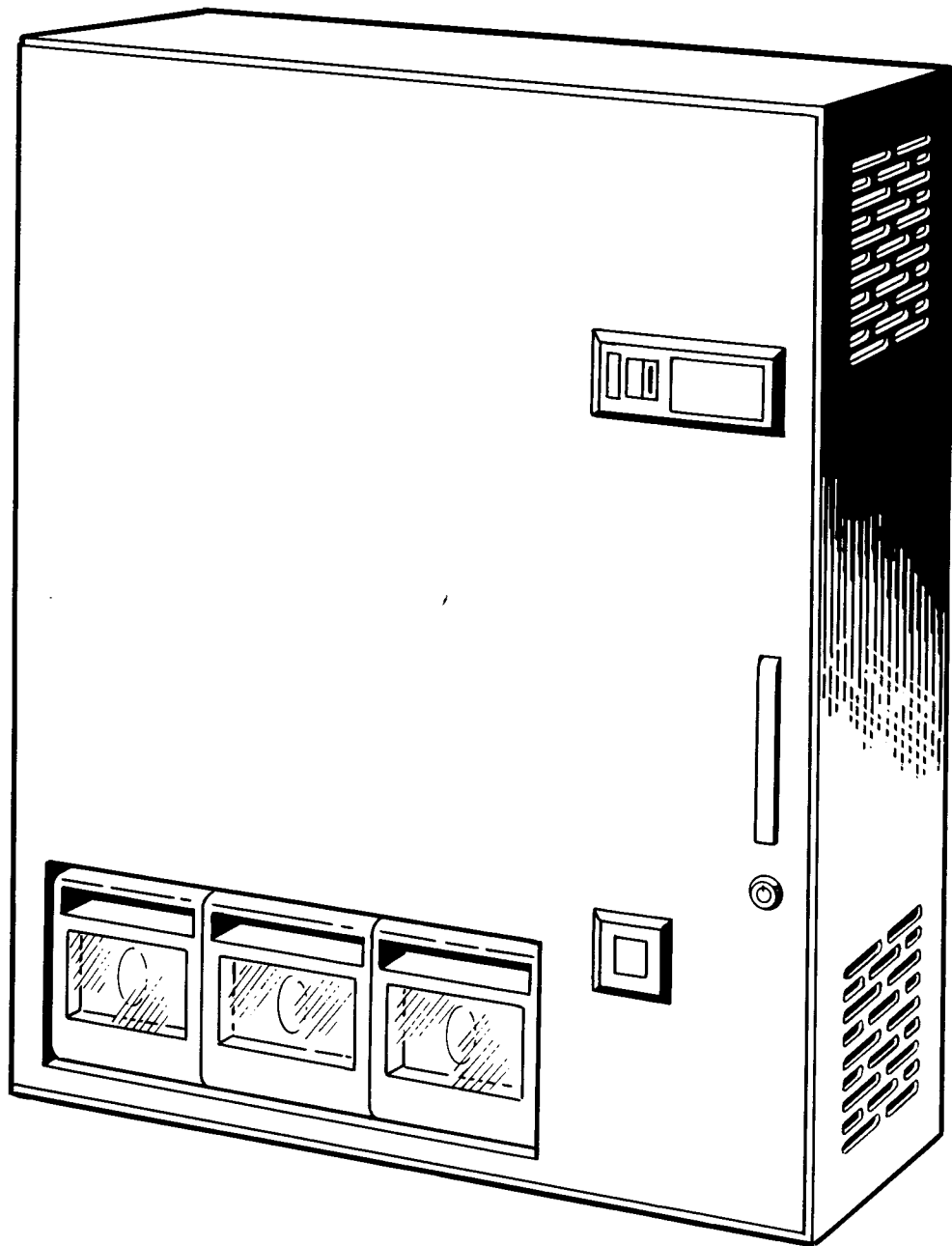


# **MODEL CT48 COMPACTVENDOR™ VENDING MACHINE**

## **INSTALLATION AND OPERATION INSTRUCTIONS**



***a* coinco®**

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**DISCONNECT POWER TO VENDOR BEFORE SERVICING**

# SECTION 1

## VENDOR SPECIFICATIONS

**Electrical** ..... 120 Volts, 60 Hertz  
3.0 Amps

### General

*Depth* ..... 10<sup>3</sup>/<sub>4</sub> inches  
*Width* ..... 28<sup>3</sup>/<sub>4</sub> inches  
*Height* ..... 35 inches  
*Net Weight (without product)* ..... 122 pounds  
*Shipping Weight* ..... 125 pounds

### Vend Capacity

*Total Items* ..... 48 maximum  
*Delivery Doors* ..... 3 maximum  
*Product Size* ..... 12 oz. cans

### Refrigeration System

*Type* ..... R-12 (prior to Serial Number 3950001)  
Refrigerant 134A (after Serial Number 3950001)  
*Charge* ..... 5.7 oz. (R-12)  
5.25 oz. (Refrigerant 134A)

### Environment

*Operating Temperature* ..... 32°F - 95°F  
*Location* ..... Indoor Use Only  
*Security* ..... Supervised

### Coin Mechanism

*Description* ..... Coinco S75-Ø800B (prior to Serial Number 1960001)  
Coinco 3240-SC (after Serial Number 1960001)  
*Number of Prices* ..... Single-price  
*Price Range in \$.05 Increments* ..... 5¢ - \$3.15

### About The Serial Number

Encoded within the serial number is the quarter and year that the unit was manufactured. Example: Serial Number 4870001 was manufactured in the fourth quarter (first digit) of 1987 (second and third digits). The remaining four digits make up the unit number.

## SECTION 2

# DESCRIPTION OF MAJOR COMPONENTS

### **Cabinet**

The CT48 cabinet is an all-metal unit housing a three-column injection-molded vending rack and main panel assembly, complete refrigeration system and coin changer.

A seven-foot electrical cord extends from the cabinet's rear wall and is protected by a strain relief at the back of the cabinet.

The cabinet interior is divided into two compartments, REFRIGERATED (left) and MECHANICAL (right).

### **Refrigerated Compartment**

The compartment to the left is fully lined with a heavy-duty plastic liner surrounded by foam insulation. This refrigerated compartment houses the evaporator plate (mounted to the rear interior wall), the evaporator fan assembly, drip tray, and rack assembly.

### **Mechanical Compartment**

The compartment to the right is uninsulated. This compartment houses the condenser fan and condenser assembly, thermostat, compressor assembly, drip pan, coin mechanism, cash box, cabinet lock rod, correct change light, and coin return lever. This compartment allows for proper ventilation of the refrigeration system.

### **Cabinet Door**

The cabinet door uses a three point lock with a flush mount handle. It has a 180 degree swing for easy access to all internal components. The cabinet door has 1" thick foam insulation and is framed with a gasket, sealing the refrigerated section of the unit. The door houses a key lock, door handle, coin inlet bezel with coin return push button and inlet chute, coin return cup, coin return door, coin changer shield and handle spring.

### **Vend Rack Assembly**

The structural foam, injection-molded rack assembly holds 48 twelve-ounce cans in three vertical product columns. Cans are loaded into the top of each column. The serpentine-style rack assembly can be completely removed for cleaning.

At the base of the full rack assembly is a main panel assembly. The main panel assembly includes three delivery doors with transparent windows and locking mechanisms.

The rack assembly includes a vend solenoid assembly which controls the operation of the delivery doors. The vend solenoid assembly is mounted to a solenoid bracket assembly.

### **Refrigeration System**

The CT48 refrigeration system includes the condenser fan and condenser assembly, compressor, evaporator fan and evaporator plate assembly. These components are connected by refrigeration lines and controlled by an adjustable thermostat. The evaporator fan assembly circulates the cold air for even cooling of the product.

## SECTION 3

# WHAT TO DO WHEN YOU GET A NEW VENDOR

**WARNING:** This vendor should only be shipped when secured in a vertical up-right position. If the unit is tilted at a severe angle or put on its side, a minimum of 12 hours must be allowed (after the unit has been straightened) before applying power to the vendor.

## INSTALL THE VENDOR

### 120 Volts, 60 Hertz

Mounting sites recommended for the vendor should:

1. BE INDOORS. The Compactvendor™ vending machine is approved for indoor use only.
2. Be within 6 (six) feet of a 120 volt outlet.
3. Allow 6" clearance on the right side of the vendor for proper operation of the refrigeration system.

Optimum location for wall mounting is a two-by-four wall stud with a 120 volt A.C. outlet below the mounting site. Locate the center of the wall stud. Before mounting the wall bracket, check the wall surface for any irregularities. A bow in the wall surface will prevent the unit from hanging properly.

Hardware materials needed to mount the vendor to a wall are available when you request Kit No. 406463.

If you are using the vendor on a tabletop or counter, proceed with Step 1 of this section, then skip to SECURING THE VENDOR IN COUNTERTOP APPLICATIONS, at the conclusion of this section.

**STEP 1.** Cut the ty-rap at the back of the vendor to release the vendor power cord and vendor keys prior to installation.

**NOTE:** If you do not intend to mount the vendor on wood wall stud construction, see other wall type construction for recommended fasteners.

## Two-by-Four Wall Stud Construction

**STEP 1.** The wall bracket is designed to mount vertically, tabs **up**, on a two-by-four wall stud, using the lag screws provided in the hardware kit. Using the mounting bracket as a template, place the bracket vertically on the stud, with the bracket tabs pointing **up**. Mark the four screw holes. Drill four pilot holes with a 9/64" or 1/8" drill bit.

**CAUTION:** Drilling holes off-center in a two-by-four wall stud will cause the wood to split.

Mount the bracket to the wall with the 1/4" x 1-1/2" hex head lag screws provided. Do not overtighten screws.

**STEP 2. OPTIONAL STEP:** If it is desirable to lock the vendor to the wall for increased security, remove the 5/8" knockout provided in the rear wall of the unit's right compartment (above the cash box) BEFORE proceeding to STEP 3.

**STEP 3. (THIS STEP REQUIRES TWO PEOPLE)** With the cabinet door securely closed and locked, lift the CT48 unit over the mounting bracket tabs so that the rectangular holes in the back of the unit align over the bracket tabs. Slowly lower the vendor until the rectangular holes fully engage the tabs.

**STEP 4. OPTIONAL STEP:** To lock the vendor to the wall using the knockout, open the vendor door. Drill a 5/8" hole in the wall surface through the knockout in the vendor's mechanical compartment. Insert the toggle bolt and tighten.

## Metal Stud, Wall Board Construction

**NOTE:** Recommended fasteners for mounting the vendor on a metal stud, wall board stud or wallboard interior wall are 4 (each) 1/4" molly bolts, 1/4S (Short) for 1/2" wall board or 1/4L (Long) for 3/4" wall board. These fasteners are not included with the vendor's hardware kit.

**STEP 1.** The wall bracket is designed to mount vertically, tabs **up**, on a metal wall stud. Using a stud finder, locate the stud on which to mount the vendor. Mark both outside edges of the stud.

**STEP 2.** Place the mounting bracket along the vertical line of the wall stud, bracket tabs pointing up. The bottom edge of the bracket will be the same height above the floor level as the bottom of the vendor after mounting. Using the bracket as a template, mark the location of the four screw holes. Set bracket aside.

**STEP 3.** Using the stud finder, **locate the exact center point of the stud** at each of the four screw hole marks. Mark to drill.

**STEP 4.** Using a 7/16" steel drill bit, drill four holes.

**STEP 5.** Press a molly bolt into each hole until the bolt is flush with the wall. Tap the head with a hammer.

**STEP 6.** Tighten down each bolt through the wall board and stud **as far as it will go**. This releases the permanent fastener prongs behind the stud.

**STEP 7.** Unscrew each screw completely. Retain all screws and washers.

**STEP 8.** Place the wall bracket, tabs **up**, over the four screw holes. Fasten down screws and washers through the mounting bracket.

**STEP 9. OPTIONAL STEP:** If it is desirable to lock the vendor to the wall for increased security, remove the 5/8" knockout in the rear wall of the unit's mechanical compartment (above the cash box) **BEFORE** proceeding to the next step.

**STEP 10. THIS STEP REQUIRES TWO PEOPLE.** With the cabinet door securely closed and locked, lift the CT48 unit over the mounting bracket tabs so that the rectangular holes in the back of the unit align over the bracket tabs. Slowly lower the vendor until the rectangular holes fully engage the tabs.

**STEP 11. OPTIONAL STEP:** To lock the vendor to the wall using the knockout, open the vendor door. Drill a 5/8" hole in the wall surface through the knockout in the vendor's mechanical compartment. Insert the toggle bolt and tighten.

## **Brick or Concrete Construction**

**NOTE:** Recommended fasteners for mounting the vendor on a brick or concrete interior wall are 4 (each) 1/4" - 16 x 1" ACKERMAN-JOHNSONS; 4 (each) 1/4" - 16 x 1" hex head screws; and 4 (each) metal washers. **DO NOT ATTEMPT TO MOUNT THE WALL BRACKET BY DRILLING HOLES IN THE MORTAR.**

**DO NOT ATTEMPT TO INSTALL THE VENDOR ON GYPSUM OR ON PLASTER AND LATH WALL CONSTRUCTION.**

## **Securing The Vendor in Countertop Applications**

In tabletop or countertop applications where security precautions are desired, loop a 3/32" wire cable through the two lowest rectangular holes at the back of the vendor then fasten down the wire cable. If it is desirable to lock the vendor to the wall using the knockout, open the vendor door. Drill a 5/8" hole in the wall surface through the knockout in the vendor's mechanical compartment. Insert the toggle bolt and tighten.

## **VSC Vendor Stand**

Coinco has designed the VSC closed model cabinet, as a companion to our Compactvendor™ vending machine.

The cabinet provides locked storage for eight 24-can cases. The VSC features a cabinet tie down, with all hardware material and instructions furnished. The cabinet is 26 inches tall and 28-3/4 inches in width. The depth is 17 inches.

## **SET IT UP**

**STEP 1.** Using the vendor keys, open the cabinet door by inserting the key in the lock and rotating 1/4 turn COUNTERCLOCKWISE. The handle will pop out. Lift the handle and pull the cabinet door open. Rotate the key to a vertical position and remove it from the lock.

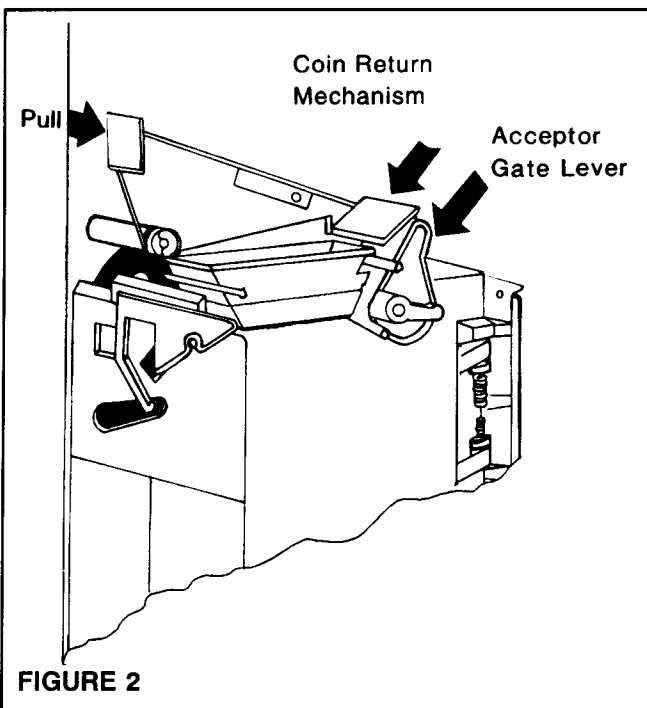
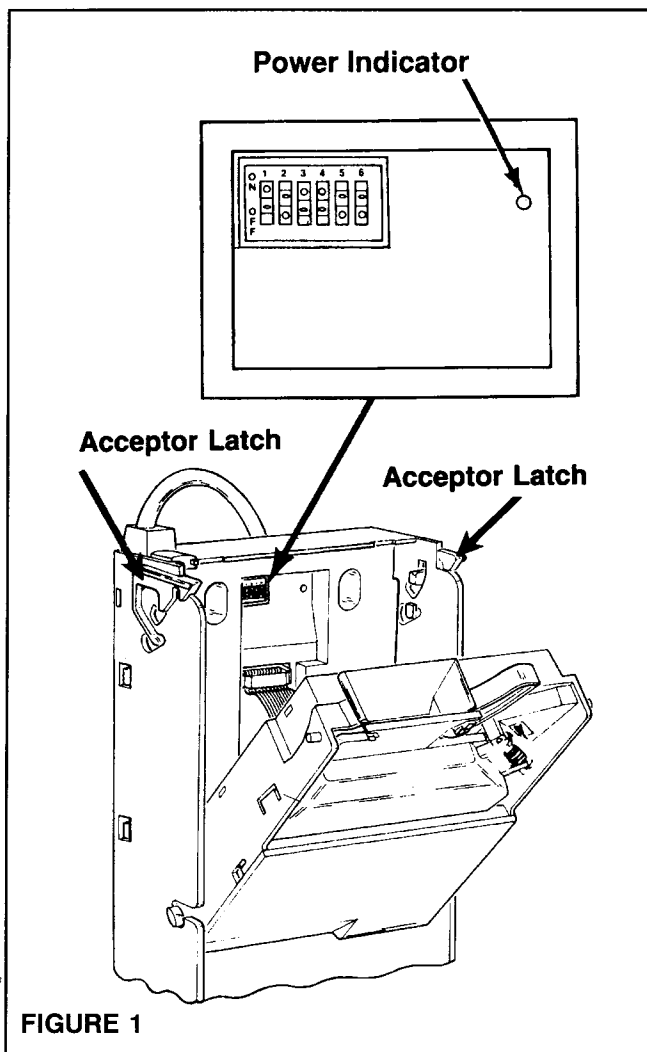
## Price Setting/Changing

**STEP 1.** WITH POWER TO THE CHANGER OFF, remove the acceptor from the coin changer and place in a dirt-free area.

**STEP 2.** A single price switch module with six rocker switches is located on the upper portion of the changer's printed circuit board (see FIGURE 1). When the upper portion of the rocker switch is pushed in, the switch is in the ON position. The switches correspond to prices as follows: 1=5¢, 2=10¢, 3=20¢, 4=40¢, 5=80¢, 6=\$1.60. Set the vend price by adding the value of all the rocker switches in the ON position. Example: Switches 2 and 4 ON = a 50¢ vend price.

**STEP 3.** Replace the acceptor (see FIGURE 2).

**NOTE:** Pull the coin return lever toward you as the acceptor is locked into place so that it rests on top of the acceptor's gate lever. Pressing the coin return mechanism should now cause the acceptor gate lever to open the acceptor gate.



**STEP 4.** With power supplied to the changer, test its operation by inserting enough coins to reach vend price. Any one of the delivery doors should open freely.

**NOTE:** Nickel payout tubes should be loaded evenly. Tests for proper operation should include a check for proper loading and smooth delivery of change from the payout tubes.

**STEP 5.** Be sure the vend price set on the changer corresponds to the vend price indicated on the coin return push button.

(See FIGURE 3)

**NOTE:** To change the price decal on the coin return push button, remove the coin inlet chute from the door by removing the two 1/4" hex head slotted screws with a hex nut driver or slotted screwdriver.

Retain the hex screws.

Remove the plastic push button and spring assembly. Pull the clear plastic cap from the button assembly and remove the existing price label. Insert the new price label right side up inside the clear cap and snap the cap onto the button. After replacing all the components (coin return button, spring and coin inlet chute), make sure the coin return button moves freely. Make sure the decal is right side up for proper reading. Secure with the hex screws; do not overtighten.

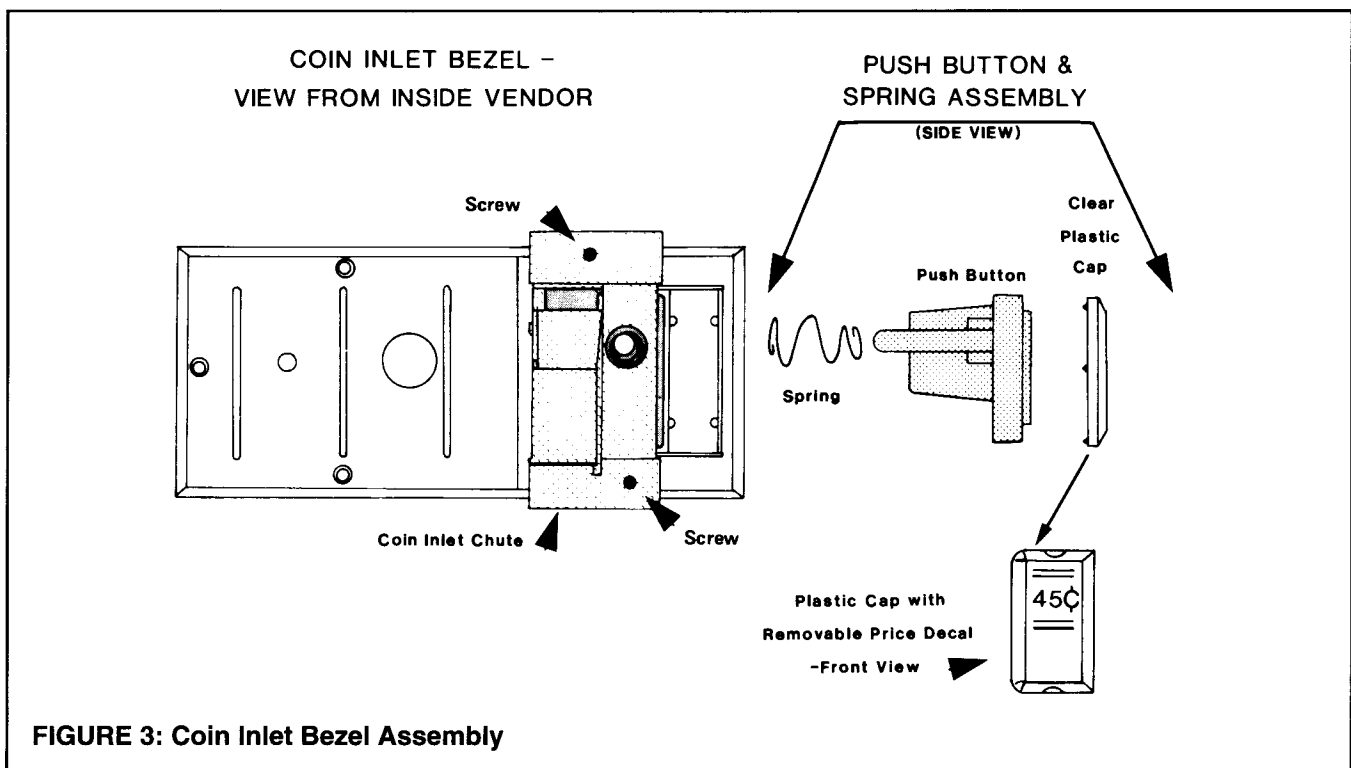
## Temperature Setting

**STEP 1.** The vendor comes from the factory with the thermostat preset. This setting should be satisfactory for most installations. Allow the vendor to operate overnight before dispensing the product. **DO NOT RE-ADJUST THE THERMOSTAT CONTROL UNLESS NECESSARY.** The lower the setting, the warmer the temperature of the product.

**WARNING:** To cool the product may require a minimum of 8 hours. Setting the thermostat to a higher number will not cause the cans to cool more rapidly but may freeze the cans if the setting is too high. Temperature adjustments should be made in increments of 1/2, i.e. 2, 2.5, 3, etc.

## LOAD THE VENDOR

Open the cabinet door and fill each vend column with product. To load the columns, turn the cans horizontally and release them ONE-BY-ONE into the top of the column allowing them to roll downward. When properly loaded, each can should be horizontal and lie flat against the next can. A single can should be visible in the window of each delivery door. The vend rack assembly will hold 48 cans with 16 cans in each column.





*DO NOT ATTEMPT TO FORCE A DENTED OR DEFORMED CAN INTO THE VEND COLUMN. DENTED OR DEFORMED CANS WILL JAM THE DISPENSING OPERATION.*

## **LOCK CABINET DOOR**

Rotate the door key to a vertical position and remove the key. While holding the handle up, push the cabinet door closed until it is fully sealed. While holding the door closed, push the handle down until it snaps into place and is flush with the cabinet door. Be sure that all three lock points are holding the door closed by checking that the door is flush with the front of the unit.

## **PUT IT TO WORK**

### **Space Needed**

Allow 6" clearance on the right side of the vendor for proper operation of the refrigeration system.

## **Electric Power Needed**

Look at the serial number plate (located inside on the right side of the vendor cabinet) to find out what the vendor's power needs are. Be sure the vendor gets the right power.

## **Ground The Vendor**

This vendor is made with a three-prong plug on the power cord. It grounds when the plug is put into a three-prong outlet. If there is no three-prong outlet near the vendor, use a two-prong adaptor. If a two-prong adaptor is used, make sure the adaptor ground wire is connected to a good ground.

## **CHECK IT OUT**

<b>WHAT TO DO</b>	<b>WHAT SHOULD HAPPEN</b>
Plug in the power cord.	The compressor motor runs, the condenser fan runs, the evaporator fan runs, the "use correct" change lamp is on.
Load the changer coin tubes.	The "use correct" change lamp goes out.
Load the vendor and close the cabinet door.	A single can should be visible in the window of each delivery door.
Test vend each selection by inserting nickels, dimes and quarters.	Selection doors should open easily and automatically close when the product is removed. Pay out change when required.

# SECTION 4

## HOW THE VENDING MECHANISM WORKS

### ELECTRICAL PARTS

#### Use Correct Change Lamp

The Use Correct Change Lamp is located in the mechanical side of the cabinet above the coin return lever. The lamp is turned on by the coin changer when the change tubes are low.

To replace a bad lamp, turn the lamp counterclockwise to release the lamp from its socket and remove. Replace the lamp with an identical type by inserting the lamp into the socket and turning clockwise until it locks into place.

#### Coin Changer

When enough money has been inserted to meet or exceed the vend price set on the price set switch, the coin changer supplies a 110 VAC to the solenoid causing it to energize. The coin changer also pays out change when required.

#### Vend Solenoid Assembly

The Vend Solenoid Assembly is located in the refrigerated compartment and is attached to the lower right side of the rack assembly. During vend, the vend solenoid momentarily energizes pulling the interlock back and causing the coin changer to reject all coins inserted until a completed vend has occurred. See cleaning instructions for removing and replacing the vend solenoid assembly.

### MECHANICAL PARTS

#### Vend Rack Assembly

The serpentine-style vend rack assembly can be completely removed for cleaning (See Cleaning Instructions). At the base of the vend rack assembly is a main panel assembly. The main panel assembly includes three delivery doors with transparent windows

and locking mechanisms. The vend rack assembly includes a vend solenoid assembly which controls the operation of the delivery doors. The vend solenoid assembly is mounted to a solenoid bracket assembly.

### VENDING CYCLE

#### Stand By

A selection door cannot be opened because the position of the interlock on the vend solenoid assembly holds the slide rods in their lock out position.

#### Credit Established

When enough money has been inserted into the machine to meet the vend price requirements, the coin changer will supply a 110 VAC 1/4 second vend pulse out line 3 of its 8-pin Jones plug. This 110 VAC vend pulse is sent to the vend solenoid causing it to momentarily energize, pulling the interlock back and causing the interlock to be mechanically held in a vend position by a plastic catch. This releases the lock out mechanism and allows a single selection door to be opened.

#### Selection Made

When a selection door is opened, the can stop assembly of the selection made pushes the two lock rods over and locks out the other two selection doors. The can stop assembly of the selection made also pushes its slide rod to the right, causing the primary slide rod to be pushed to the right releasing the interlock from the plastic catch. Releasing the interlock from the plastic catch allows a spring to return the interlock to its stand by position completing the vend cycle.

# SECTION 5

## HOW TO TAKE CARE OF THE VENDOR

### CLEANING INSTRUCTIONS - WHAT TO CLEAN

**STEP 1. DISCONNECT THE POWER SUPPLY CORD FROM THE WALL.**

**CAUTION:** Do not use a cheater cord to test the vend mechanism or to unload product from the rack. Repeated operation may cause the vend solenoid to open. To properly unload the vendor, see Step 2.

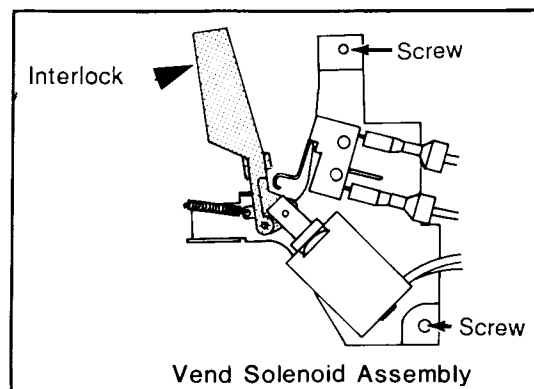
**STEP 2. UNLOAD THE VENDOR**

**PART A.** To unload the product, vend the machine by moving the interlock back until it engages the plastic catch (See FIGURE 4). The interlock is the black tab located on the lower right of the vend rack assembly behind the main panel. The delivery door can then be opened.

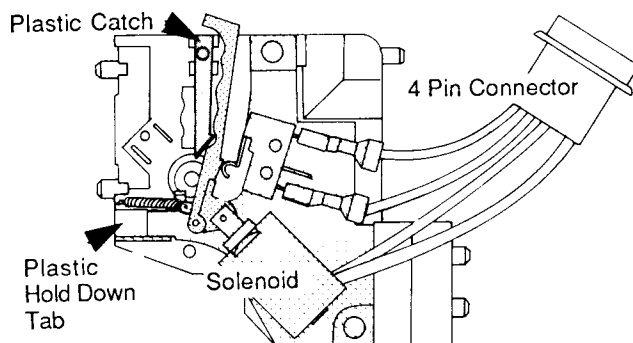
**PART B.** Repeat this procedure until all the columns are empty.

**CAUTION:** Remove Vend Solenoid Assembly before cleaning rack assembly.

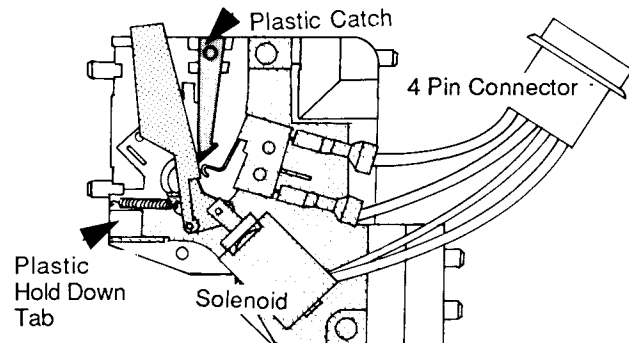
When re-installing, vend solenoid assembly interlock should rest in vend position and plastic hold down tab should hold assembly in place.



Interlock in Vend Position



Interlock in Stand-By Position



**FIGURE 4: SOLENOID BRACKET ASSEMBLY**

**NOTE:** Do not attempt to remove the vend rack assembly until all the products have been unloaded.

### **STEP 3. DISCONNECT THE VEND SOLENOID**

**NOTE:** The electrical connection to the vend solenoid assembly (lower right side of the vend rack assembly) must be disconnected before removing the vend rack assembly from the cabinet.

**PART A.** Lift the vend rack assembly UP approximately 1/4" and carefully pull it toward you. This frees the vend rack assembly from the two (2) key hole brackets at the back of the vend rack assembly and from the four (4) studs under the delivery doors. Pull the vend rack assembly toward you until the vend solenoid assembly is visible.

**PART B.** Disconnect the vend solenoid assembly (See FIGURE 4) by unplugging the four (4) pin connector from the cabinet harness. The vend rack assembly can now be removed from the cabinet.

**NOTE:** Before cleaning the vend rack assembly, the vend solenoid assembly must be removed.

### **STEP 4. REMOVE THE VEND SOLENOID ASSEMBLY FROM THE VEND RACK ASSEMBLY.**

**PART A.** Remove the screw holding the plastic clamp harness to the vend rack assembly to release wires. Retain the screw.

**PART B.** (See FIGURE 4) Remove the two (2) screws holding the metal plate of the vend solenoid assembly to the rack. Retain the screws.

**PART C.** Place the vend solenoid assembly and screws in a clean, dry area. **AVOID ALL CONTACT WITH WATER.**

**PART D.** The vend rack assembly can not be completely immersed in warm, soapy water. Be sure to rinse and dry the unit thoroughly before reinstalling it into the vend rack assembly.

**PART E.** The inside of the cabinet liner and evaporator plate can be washed with a mild detergent.

### **STEP 5. RECONNECT THE VEND SOLENOID ASSEMBLY BEFORE REINSTALLING THE RACK AND BEFORE RECONNECTING POWER.**

**PART A.** Re-install the vend solenoid assembly by holding the interlock in the vend position, i.e., pulled back so it fits behind the plastic catch (See FIGURE 4). Slide the vend solenoid assembly under the hold down tab. Replace and tighten the two screws. After tightening the screws, actuate any delivery door to reset the vend mechanism to the lock position

**PART B.** Secure the solenoid wires to the rack assembly with the plastic harness clamp, using the screw retained earlier.

**PART C.** Set the empty vend rack assembly on the liner and reconnect the four (4) pin connector on the lower right side of the vend rack assembly. **THIS MUST BE DONE BEFORE LOCKING THE VEND RACK ASSEMBLY INTO POSITION..**

**PART D.** To lock the **VEND RACK ASSEMBLY** into position, set the four studs under the delivery doors into the four holes at the bottom of the vendor liner. While pushing the **VEND RACK ASSEMBLY** toward the rear wall of the cabinet, lift the **VEND RACK ASSEMBLY** up to engage the key hole brackets, then down to lock it into place. Ensure that the key hole brackets are engaged by gently pulling forward on the top the vend rack assembly and inspecting that all four studs are fully seated in their proper holes.

**DISCONNECT  
POWER TO VENDOR  
BEFORE SERVICING**

## DISASSEMBLING THE VEND RACK ASSEMBLY

For a more thorough cleaning of the vend rack assembly and replacement of defective or broken vend rack assembly parts, it will be necessary to disassemble the vend rack assembly. Following is a procedure that will be helpful when disassembling and assembling the vend rack assembly. (Refer to the parts lists on pages 28 and 29.)

**NOTE:** See steps 1 through 5 under *Cleaning Instructions for unloading and removing the vend rack assembly and vend solenoid assembly.*

**The number in parentheses ( ) indicates the item number listed on pages 28 and 29.**

Dispense doors are referred to as doors 1, 2, and 3 with door number 1 being on the left when the vend rack assembly is viewed from the front.

**STEP 1.** With the vend rack assembly lying face down on a flat surface, remove the screw (28) that holds the plastic cable clamp (31) to the vend rack assembly.

**STEP 2.** An extra long phillips screwdriver will be helpful for this step. With the vend rack assembly lying face down, loosen the six screws (3) at the very bottom of the vend rack assembly. Loosen the six screws (3) inside the vend rack assembly also near the bottom of the vend rack assembly, the middle two screws are accessible through the two holes near the bottom of the vend rack assembly.

**STEP 3.** With the twelve screws loosened, the rack assembly (1) can now be separated from the main panel assembly (39) by grasping the back of the rack assembly (1) and pulling straight up. Set the rack assembly (1) aside.

**STEP 4.** Each dispense door has a set of parts that can now be removed as a complete assembly from the main panel assembly (39). Remove the parts assembly for doors 1 and 2 by grasping the solenoid bracket (5) and pawl bracket assembly (6) for each dispense door and pulling straight up. Remove the parts assembly for door 3 by grasping the pawl bracket assembly (6) and solenoid bracket and interlock catch assembly (30) and pulling straight up. This releases the two guide pins on each of the solenoid brackets (5) and (30) and the pawl bracket

assemblies (6) and also releases the can stop spring (17) from the screw (16). Remove all three assemblies from the main panel assembly (39) one at a time. Set the assemblies aside and apart from one another so the parts will not get mixed when assemblies are disassembled.

**STEP 5.** Assemblies removed in Step 4 may be disassembled further by pulling the solenoid bracket (5) or (30) and pawl bracket assembly (6) apart from one another. This releases the can stop (18), the slide rod (10) for doors 1 & 2, and (20) for door 3 from their slots in the two brackets pulled apart. Doors 1 and 2 also have a lockout rod and washer (8). This rod and washer can be removed from its bracket only after the lockout rod return spring (15) has been removed. Remove the lockout rod return spring (15) by removing the screw (14). The lockout rod (29) and washer (8), can now be removed.

**STEP 6.** The solenoid bracket and interlock catch assembly (30) contain the interlock catch (32). The interlock catch can be removed by removing the screw (41) from the solenoid bracket and interlock catch assembly (30).

**STEP 7.** To completely remove a dispense door and bin assembly (25) from the main panel dispense door and bin assembly (39), remove the dispense door return spring (22) from the bin and label assembly (37). Remove the screws (24) and bin stops (23) from both sides of the bin and label assembly (37).

**NOTE:** *Newer rack assemblies do not have bin stops. If it is a newer door and bin assembly, the sides of the bin must be flexed inward so molded stops can clear main panel. This allows a door and bin assembly to be replaced without completely disassembling the rack.*

Remove the retaining ring (27) from the pivot rod (26). Remove the pivot rod (26) from the main panel (21) by sliding the rod out one side of the main panel (21). This will release the dispense door and bin assembly (25) allowing it to be completely removed from the main panel (21).

## ASSEMBLING THE VEND RACK ASSEMBLY

**STEP 1.** If the main panel dispense door and bin assembly (39) has been completely disassembled, reverse Step 7 under Disassembling the Vend Rack Assembly and reassemble (39) before proceeding with Step 2.

**STEP 2.** Each dispense door has a set of parts (removed and disassembled in Steps 4 & 5 under Disassembling the Vend Rack Assembly) that must be made into an assembly before being installed on the main panel dispense door and bin assembly (39). Refer to the parts lists on pages 28 and 29 to help determine the correct parts and their positions for each of these dispense door assemblies. If the lockout rods (29) have been removed from brackets (5) & (6), reverse Step 5 under Disassembling the Vend Rack Assembly and reassemble the lockrods (29) into brackets (5) and (6) before proceeding with Step 3.

**STEP 3.** Position the main panel dispense door and bin assembly (39) face down on a flat surface with the three dispense door's SOLD OUT decals facing you. This will put dispense door #1 to your left. Assemble dispense door #1 parts and install parts assembly on the main panel dispense door and bin assembly (39) as follows: Refer to Figure 7 on page 28. Using the pawl bracket assembly (6) with the lockout rod (29) installed, insert the small round post of the can stop assembly (18) and the angled end of the secondary slide rod (10) into their appropriate slots in the pawl bracket assembly (6). The blade of the can stop assembly (18) will be on the outside of the pawl bracket assembly (6) when properly installed. Using the solenoid bracket (5), complete dispense door #1 parts assembly by simultaneously inserting the other end of the lockout rod (29), secondary slide rod (10), and can stop assembly (18) into their appropriate slots in the solenoid bracket (5). The dispense door #1 parts assembly can now be installed on the main panel dispense door and bin assembly (39) by inserting the four guide pins, two on the pawl bracket assembly (6) and two on the solenoid bracket (5), into the four pin guides on the main panel dispense door and bin assembly (39).

**STEP 4.** Assemble dispense door #2 parts and install parts assembly on the main panel and dispense door and bin assembly (39) as follows: Refer to Figure 7 on page 28. Using the solenoid bracket (5) with the lockout rod (29) installed, insert the squared end of the secondary

slide rod (10) into its appropriate slot in the solenoid bracket (5). Using the pawl bracket assembly (6), insert the small round post of the can stop assembly (18) into its appropriate slot in the pawl bracket assembly (6). The blade of the can stop assembly (18) will be on the outside of the pawl bracket assembly (6) when properly installed. Using the solenoid bracket (5) with the lockout rod (29) and the secondary slide rod (10), along with the pawl bracket assembly (6) with the can stop assembly (18), complete dispense door #2 assembly by bringing (5) and (6) together allowing the lockout rod (29), secondary slide rod (10) and can stop assembly (18) to fit into their appropriate slots in (5) and (6) completing dispense door #2 assembly. The dispense door #2 parts assembly can now be installed on the main panel dispense door and bin assembly (39) by inserting the four guide pins, two on the pawl bracket assembly, and two on the solenoid bracket (5), into the four pin guides on the main panel dispense door and bin assembly (39).

**STEP 5.** Assemble dispense door #3 parts and install the parts assembly on the main panel dispense door and bin assembly (39) as follows: Refer to Figure 7 on page 28. If the interlock catch (32) has been removed from the solenoid bracket and the interlock catch assembly (30), install (32) onto (30) by reversing Step 6 under Disassembling the Vend Rack Assembly. Using the solenoid bracket and the interlock catch assembly (30), insert the curved end of the primary slide rod (20) into the appropriate slot in (30) and twist ninety degrees to install. Using the pawl bracket assembly (6), insert the small round post of the can stop assembly (18) into its appropriate slot in (6). The blade of the can stop assembly (18) will be on the outside of (6) when it is properly installed. Complete dispense door #3 parts assembly by bringing (30) and (6) together allowing the primary slide rod (20) and the can stop assembly (18) to fit their appropriate slots in (30) and (6) completing dispense door #3 parts assembly. The dispense door #3 parts assembly can now be installed on the main panel dispense door and bin assembly (39) by inserting the four guide pins, two on the pawl bracket assembly (6) and two on the solenoid bracket and interlock catch assembly (30), into the four pin guides on the main panel dispense door and bin assembly (39).

**STEP 6.** Install spring (17) for each of the three dispense door assemblies by connecting the spring (17) between the screw (16) and the middle of the can stop assembly (18).

**STEP 7.** Check to make sure that all 12 guide pins on the solenoid and pawl bracket assemblies (5), (30), and (6) are properly seated into each pin guide on the main panel dispense door and bin assembly (41). Check to make sure that the ends of the primary and secondary slide rods (10) and (20) are not overlapping where they touch one another. Also check the lockout rods (29) to make sure they are end to end and not overlapping where they touch one another.

**STEP 8.** To complete assembly of the vend rack assembly, reverse Steps 1, 2 and 3 under Disassembling the Vend Rack Assembly. This entails lowering the vend rack assembly (1) onto the main panel dispense door and bin assembly (41) and securing the twelve screws (3) and the screw (28) which holds the cable clamp (31). Check to make sure that all fifteen guide pins on the solenoid and pawl bracket assemblies (5), (30) and (6) are properly seated into the pin guides on the rack assembly (1) before tightening the screws (3).

**STEP 9.** To install the vend rack assembly into the vendor, see Section 5, Step 5.

## HOW TO CORRECT COMMON VENDING TROUBLES

This table does not list all the possible causes of any of the troubles - but it does have all of the common causes. If your vendor is giving trouble not shown on the chart, or the trouble is not the result of one of the causes shown on the chart, study "How The Vending Mechanism Works," Section 4.

POSSIBLE CAUSE	CHECK	SOLUTION
<b>VENDOR REJECTS ALL COINS</b>		
Vendor not plugged into power outlet.	Check to see that vendor is plugged into power outlet.	Plug vendor into power outlet.
Low or no voltage at power outlet.	Check power outlet for proper voltage. Voltage should be between 105VAC & 125VAC. If not,	Get proper voltage to power outlet.
Coin changer not plugged into vendor.	Check to see that changer is plugged into vendor.	Plug changer into vendor.
No power at pin 6 of 8 pin changer socket.	Unplug changer and check voltage between pin 2 and 6 of 8 pin changer socket. If voltage is between 105VAC & 125 VAC,  If there is no voltage reading between pins 2 and 6 of the 8 pin changer socket,	Replace or repair coin changer.  Replace vend solenoid assembly.

POSSIBLE CAUSE	CHECK	SOLUTION
<b>VENDOR ACCEPTS COINS BUT NEITHER OF THE THREE DELIVERY DOORS WILL OPEN</b>		
Vend price switch in coin changer set to wrong vend price.	Check to see that vend price switch setting matches vend price decal on front of vendor.	Set proper vend price on coin changer price set switch.
Interlock catch missing or broken.	Look to see that interlock catch is not missing or broken. If it is,	Replace interlock catch.
Defective coin changer.	Test coin changer on changer tester or a known good vendor.	Repair or replace defective coin changer.
Defective vend solenoid assembly.	While observing vend solenoid, insert sufficient coins to establish credit. When credit is established, the vend solenoid should energize. If it does not energize,	Replace vend solenoid assembly.
<b>DELIVERY DOOR/DOORS HARD TO OPEN</b>		
Vend rack assembly is sticky or dirty not allowing slide and/or lock rods to move freely. Possibly caused by a leaky product container.	Check to see that the slide and/or lock rods move freely. If they do not,	Clean vend rack assembly. Refer to What to Clean Section.
Lock rod return spring or springs missing or out of tolerance.	Check to see if the springs are missing or out of tolerance.	Replace missing or defective springs.



# SECTION 6

## HOW THE REFRIGERATION SYSTEM WORKS

### MECHANICAL PARTS

#### Compressor Motor

The compressor motor is a pump which draws low pressure freon gas from the evaporator plate and forces it out to the condenser under high pressure.

#### Condenser

The condenser removes the heat from the high pressure vapor discharged from the compressor and changes it to a high pressure liquid.

#### Drier

The drier traps and holds water molecules while allowing oil and freon molecules to go through into the capillary tube.

#### Capillary Tube

The capillary tube has a very small inside diameter and is used as a metering device for the liquid freon going into the evaporator plate.

#### Evaporator

The evaporator is the low pressure point, due to the suction of the compressor, where freon boils and absorbs heat from the cooling compartment.

### ELECTRICAL PARTS

#### Compressor Motor

The compressor motor (hermetically sealed in the compressor housing) drives the mechanical parts of the compressor. It is operated by the temperature control switch and the terminal overload switch.

#### Condenser Fan Motor

The condenser fan motor runs a fan that forces air through the condenser coils. Its winding is in parallel with the compressor motor so that under normal operation, the two motors start and stop together.

#### Evaporator Fan Motor

The evaporator fan motor runs a fan which circulates air around the evaporator plate and throughout the cooling compartment. The evaporator fan motor is always on.

#### Temperature Control

The temperature control is made up of the temperature control switch, a capillary tube, and the bellows. The tube is filled with a special liquid and connected to the bellows. When the temperature rises, it causes the liquid to expand. When the cut-in temperature is reached, the bellows works the switch that turns on the compressor and condenser fan motors. The unit runs until the liquid in the tube cools down to the cut-in temperature. The bellows then releases the switch, turning off the compressor and condenser fan motors.

#### Starting Relay

The starting relay is a magnetic relay with gravity return. It is made up of a relay coil and one set of contacts.

When the compressor motor first starts, the starting relay closes and completes the compressor motor starting winding circuit. After the compressor motor gets up to speed, the starting relay is opened by the force of gravity and the starting winding circuit is broken. The compressor continues to run on the running winding only.

#### Thermal Overload

The thermal overload is made up of a switch and a heater coil. If the compressor gets too hot or draws too much current, the switch opens both the running and starting circuits of the compressor. When the compressor cools down to a safe temperature, the switch will close those circuits allowing the compressor and condenser fan motors to restart.

# ELECTRICAL OPERATION

## WHAT IT DOES

## WHAT HAPPENS

### WHEN THE VENDOR TEMPERATURE GETS UP TO THE CUT-ON SETTING

The temperature control switch .....	Closes the compressor motor circuit and completes that circuit.
	Closes the condenser fan motor circuit, completing the circuit.

### THE HEAVY CURRENT, DRAWN BY THE RUNNING WINDING, ALSO FLOWS IN THE STARTING RELAY COIL, AND:

The starting relay coil .....	Closes the starting relay contacts in the starting winding circuit of the compressor motor, completing that circuit.
-------------------------------	--

### WHEN THE COMPRESSOR MOTOR GETS UP TO SPEED

The force of gravity .....	Pulls the starting relay contacts apart because
The starting relay coil .....	No longer gets enough current to hold the contacts closed, and
The starting relay contacts .....	Open in the starting winding circuit of the compressor motor, and break that circuit.

### IF EITHER THE COMPRESSOR MOTOR OR THE CONDENSER FAN DRAWS TOO MUCH CURRENT AND CAUSES THE THERMAL OVERLOAD ASSEMBLY TO GET TOO WARM

The thermal overload switch .....	Opens the running winding circuit and the starting winding circuit of the compressor motor, and breaks both those circuits.
	Opens the condenser fan motor circuit, and breaks that circuit.

### WHEN THE THERMAL OVERLOAD ASSEMBLY COOLS DOWN AGAIN

The thermal overload switch .....	Closes both the running winding circuit and the starting circuit of the compressor motor.
	Closes the condenser fan motor circuit, and completes that circuit.

### WHEN THE VENDOR TEMPERATURE GETS DOWN TO THE CUT-OFF SETTING

The temperature control switch .....	Opens the running winding circuit of the compressor, and breaks that circuit.
	Opens the starting relay coil circuit, and breaks that circuit.
	Opens the starting winding circuit of the compressor motor.

## ELECTRICAL CIRCUITS

CONTROL SWITCHES	WHAT THEY OPERATE	CAUSES OF OPERATION
Temperature control switch	cycles compressor and condenser fan motor on and off	a temperature change above or below the cut-in or cut-out setting.
Starting relay switch	energizes the compressor start winding	high current drawn by the while starting.
Thermal overload switch	turns compressor and condenser fan motor "off"	excessive compressor high temperature or high current draw.

## REFRIGERATION CYCLE

CAUSE	EFFECT
The rising temperature .....	Closes the temperature control (T.C.) switch
The T.C. switch .....	Turns the compressor and condenser fan on
The compressor .....	Circulates the refrigerant through the system
The condenser .....	Transfers the heat of the system to the outside environment
The capillary tube .....	Controls the flow of refrigerant into the evaporator plate
The evaporator plate .....	Cools the vendor
The falling temperature .....	Opens the temperature control switch
The T.C. switch .....	Turns the compressor and condenser fan off

With the vendor plugged in, the evaporator fan runs constantly.

# SECTION 7

## HOW TO TAKE CARE OF THE REFRIGERATION SYSTEM

### WHAT TO CLEAN

#### Condenser

Clean dirt and lint from the condenser with a brush, vacuum cleaner or compressed air.

#### Evaporator

When frost or ice cover the evaporator, unplug the vendor so it will defrost. After defrosting, clean the evaporator with a solution of baking soda and warm water. Try to determine the reason for icing by looking at the table called "How to Correct Common Refrigeration Troubles."

### WHEN AND WHAT TO LUBRICATE

The refrigeration system is sealed up and does not have to be oiled or greased. Enough oil is put into the condenser and evaporator fan motors when they are manufactured to last as long as they will run.

### THINGS TO ADJUST

#### Temperature Control

The purpose of this adjustment is to keep the product at a desired temperature. If the control knob is turned clockwise, it will make the product cooler, and turned counter-clockwise will make the product warmer. Turn the adjustment 1/8 of a turn in the required direction. Wait at least two hours and check product temperature again before making further adjustments.

### CORRECTING TROUBLES

When the refrigeration system is not working right, use the table titled, "How to Correct Common Refrigeration Troubles," on the next pages. Find your trouble in the left-hand column, use the center column to determine the true cause, and then follow the directions given in the right-hand column of the table.

This table does not list all possible causes of any of the troubles but does have all of the common causes. If your vendor has a trouble that is missing from the table or is not caused by the reasons given in the chart, study, "How the Refrigeration System Works."

### HOW TO CORRECT COMMON REFRIGERATION TROUBLES

Trouble	Page
Neither the compressor, the condenser fan motor, nor the evaporator fan motor runs .....	21
The condenser fan motor and the compressor motor do not run but the evaporator fan does .....	21
The compressor fan motor does not run but the condenser fan motor does .....	21
The product is too warm. (The unit cycles and both the compressor and condenser fan motor turn on and off together) .....	22
The product is too cold .....	22
The compressor starts but cuts off while the condenser fan motor continues to run .....	23

## HOW TO CORRECT COMMON REFRIGERATION TROUBLES

A POSSIBLE CAUSE	TO MAKE SURE	THIS IS WHAT TO DO
<b>NEITHER THE COMPRESSOR, THE CONDENSER FAN MOTOR, NOR THE EVAPORATOR FAN MOTOR RUNS</b>		
The vendor is not plugged in.	Look to see.	Plug in the vendor.
The power is off.	Plug a 110 volt lamp into the outlet. If it doesn't light,	Get power to the outlet.
A wire in the wiring harness is broken.	If the vendor is plugged into a good outlet and nothing runs, it is likely that the wiring harness is defective.	Find the break and repair it or replace the harness.
<b>THE CONDENSER FAN MOTOR AND THE COMPRESSOR MOTOR DO NOT RUN BUT THE EVAPORATOR FAN MOTOR DOES.</b>		
The temperature control switch is not turned on.	Look to see.	Turn on.
The temperature control switch is bad.	By-pass the switch by shorting the two wires that are hooked to it. If the compressor starts,	Replace the control.
The wiring harness is damaged.	Look for cuts in the harness.	Splice the cut and tape.
<b>THE COMPRESSOR MOTOR DOES NOT RUN BUT THE CONDENSER FAN MOTOR DOES</b>		
The compressor is too hot.	Feel the compressor. If it is hot to the touch,	Allow it to cool.
The thermal overload switch is bad.	Replace the thermal overload switch. If the compressor runs,	Leave it in.
The starting relay is bad.	Unplug the vendor. Remove the starting relay. Connect to an OHM meter. Contacts should be open. Turn the relay upside down. Contacts should close. If not,	Replace the starting relay.
Compressor is seized or burned out.	Replace the thermal overload switch and the starting relay. If the compressor does not start and run,	Replace the compressor.

## HOW TO CORRECT COMMON REFRIGERATION TROUBLES (cont.)

A POSSIBLE CAUSE	TO MAKE SURE	THIS IS WHAT TO DO
<b>THE PRODUCT IS TOO WARM. (THE UNIT CYCLES AND BOTH COMPRESSOR AND CONDENSER FAN MOTORS TURN ON AND OFF TOGETHER.)</b>		
The temperature control is set too warm.	Turn the control to a colder setting. If it helps,	Leave it there.
The evaporator fan motor is not running.	Open the cabinet door and listen. If it is not running,	Check the voltage to the motor or replace it.
The evaporator is iced up.	Look to see.	Allow to defrost and try a new door gasket.
The temperature control is bad.	Check the other possible causes above and if no trouble is found,	Try a new temperature control switch.
The compressor is cycling on the overload switch.	If the compressor starts but cuts off while the condenser fan motor continues to run,	Make the checks under that heading.
<b>THE PRODUCT IS TOO COLD</b>		
The temperature control is set too cold.	Look at the setting. If not at the warmest position,	Set it to a warmer position.
The temperature control is bad.	Replace the temperature control. If the vendor works properly,	Leave it in.

Occasionally the product will be too cold because the refrigeration unit is not working properly and is not able to cool the air in the box down to the cutout temperature of the temperature control. Normally the temperature at which the unit cuts off is in the low twenties at the warmest position of the control. If the unit has low charge or a leaking valve or for any reason is not

refrigerating properly, it may cool the box down below 30° but not to the cut-out temperature. If this happens, the unit will run for long periods of time and get the product too cold.

If the cabinet is sealed properly and the condenser is not dirty, nor the air blocked, and if a new temperature control does not help, the refrigeration unit is probably defective.

## HOW TO CORRECT COMMON REFRIGERATION TROUBLES (cont.)

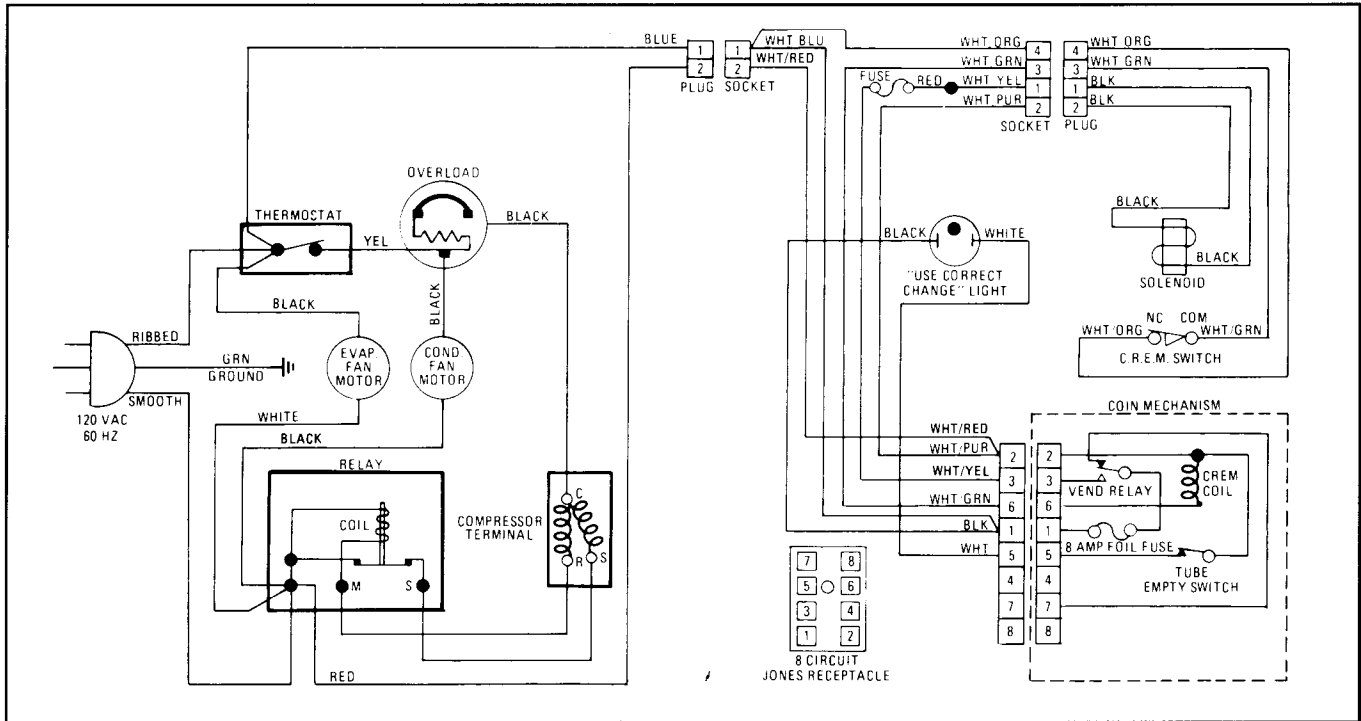
A POSSIBLE CAUSE	TO MAKE SURE	THIS IS WHAT TO DO
<b>THE COMPRESSOR STARTS BUT CUTS OFF WHILE THE CONDENSER FAN MOTOR CONTINUES TO RUN</b>		
The tube from the compressor to the condenser is kinked or bent sharply.	Look. If it is,	Try to get the kink out.
The capillary tube is kinked or bent sharply.	Look. If it is,	Try to get the kink out.
The starting relay contacts are sticking closed.	Make the check titled "The Starting Relay is Bad."	Replace the starting relay.
The voltage at the vendor is either too high or too low.	When the compressor starts, check the voltage at the electric outlet. The voltage should not drop below 105 volts. Running voltage should be between 105 and 125 volts.	Get correct power to outlet.
NOTE:	If an extension cord is used, check the voltage at both ends while the vendor is plugged in and running. If the voltage is OK where the extension cord plugs in but is below 105 volts at the vendor end,	Tell the person in charge of the vendor that the vendor will not run right with that extension cord on it.
Not enough air getting to the condenser.	See if anything is blocking the air to the condenser. If there is,	Remove the obstruction.
The condenser is dirty.	Check the condenser. If it is dirty,	Clean.

**NOTE:** There should be a minimum of six inches clearance to the right of the vendor to insure proper air circulation.

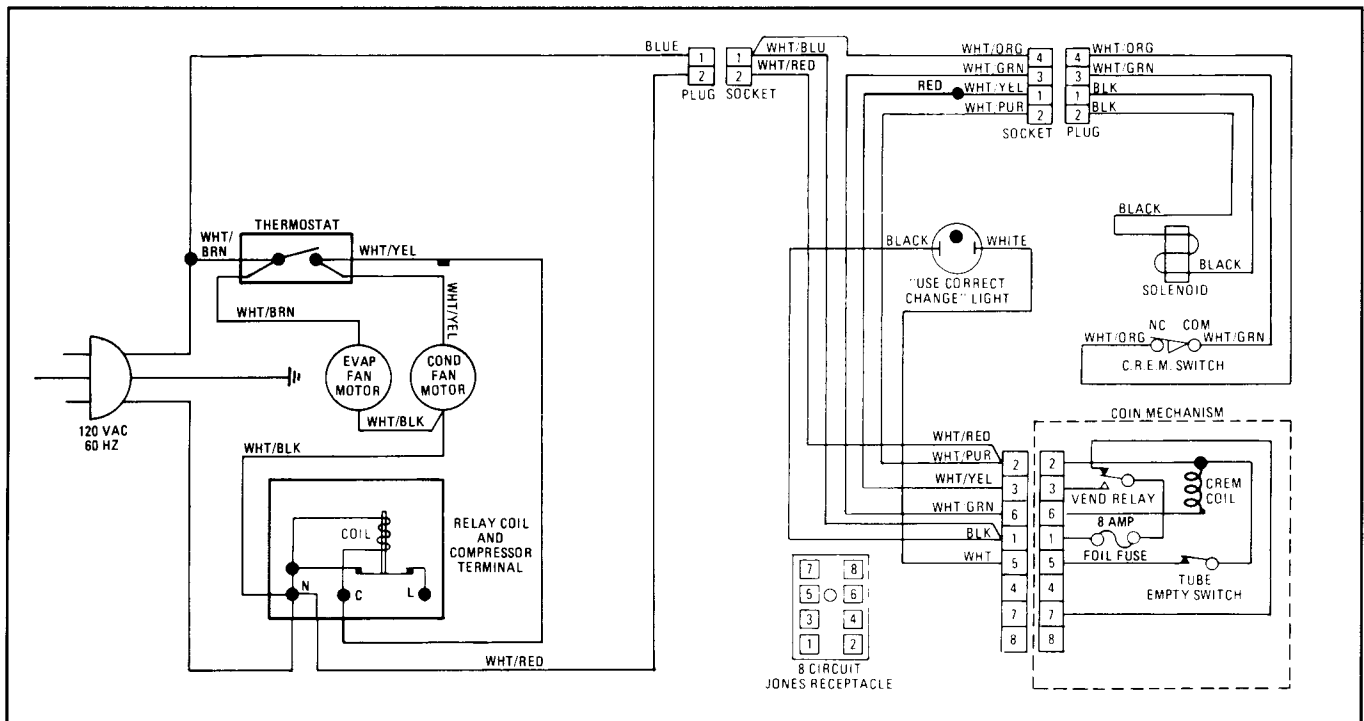
# SECTION 8

## WIRING DIAGRAM

### FOR TECUMSEH COMPRESSORS



### FOR SANYO COMPRESSORS





# SECTION 9

## PARTS LISTS

FIGURE 5

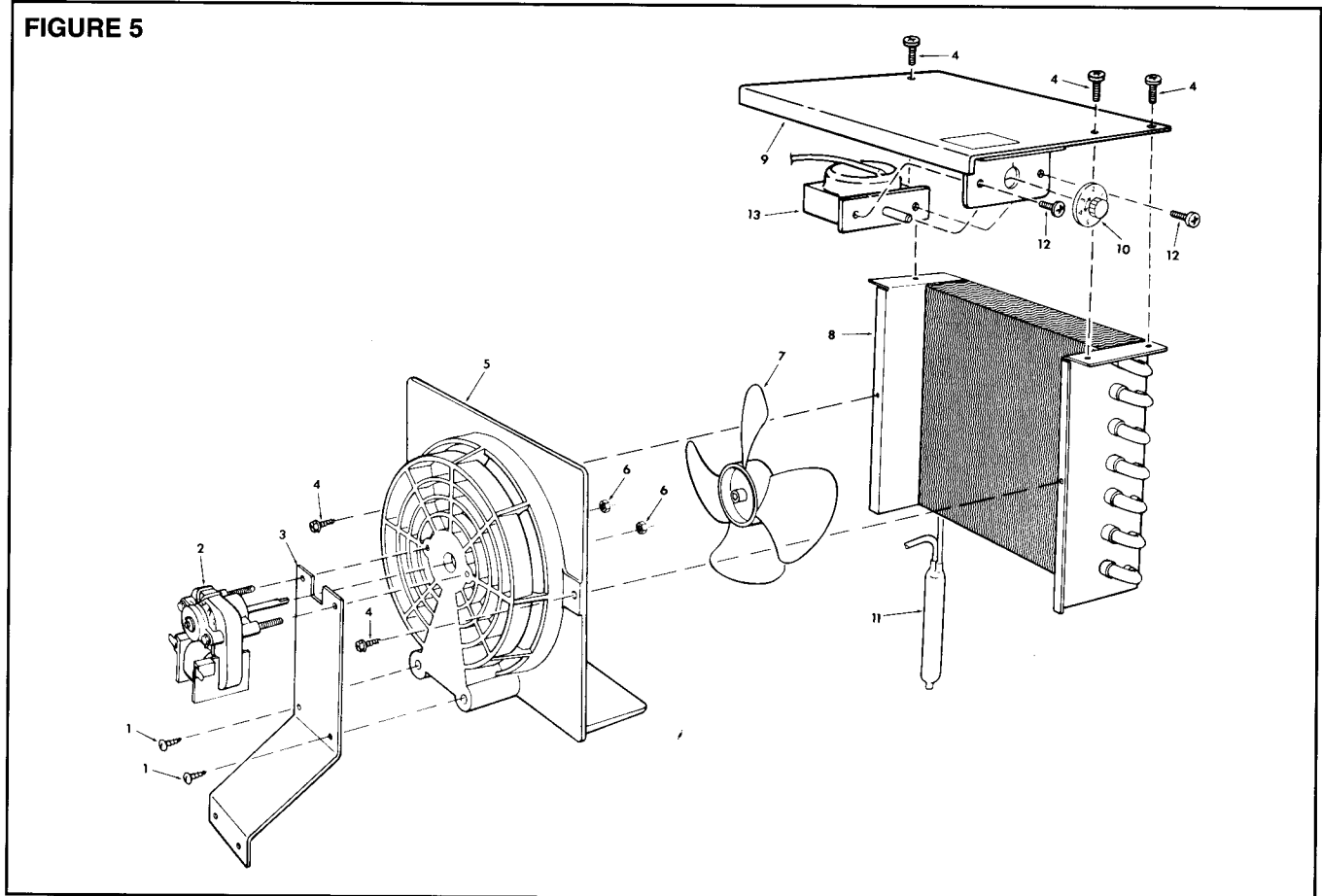


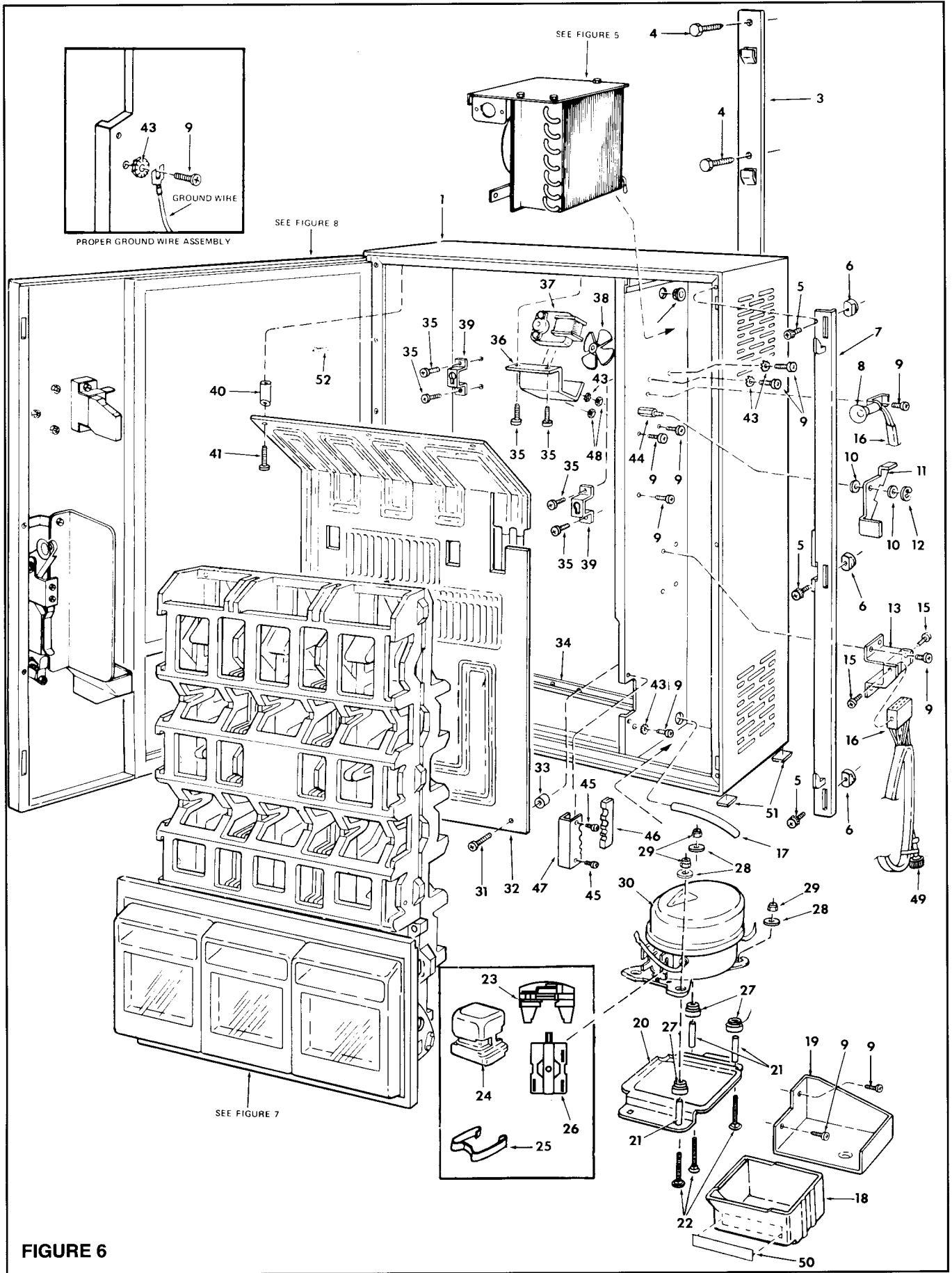
FIGURE 5 PARTS LIST

Item No.	Part No.	Description	Qty.
1	119-8S4	8-32 x 1/4 Hex Screw	2
2	922282	Fan Motor	1
3	908829	Fan Support Bracket	1
4	131-10S8	10 x 1/2 Hex Slot Screw	5
5	406379	Fan Guard Assembly	1
6	438-6	Hex Nut #6-32 Sems	2
7	906363	Fan Blade	1
*8	908866	Condenser	1
9	908933	Condenser Mounting Bracket	1
10	906362	Thermostat, Knob	1
11	906365	Drier, R-12	1
	921683	Drier, Refrigerant 134A	1
*12	110-8R6	Screw, 8-32 x 3/8 PH	2
13	909492	Thermostat	1

\* NOTE: ITEM #8: Vendors with serial numbers prior to #3850000 were manufactured with a black steel condenser (part #906364). Vendors are presently being manufactured with a copper/aluminum condenser (part #908866). When replacing a defective condenser, an exact replacement must be used.

ITEM #13: Vendors with serial numbers prior to #4870059 require thermostat kit #406922.

See "About The Serial Number", Page 3.



## FIGURE 6 PARTS LIST

Item No.	Part No.	Description	Qty.
1	406565	Foamed Cabinet Assembly	1
3	906023	Wall Mounting Bracket	1
4	906507	Lag Screw 1/4"	4
5	901122-2	Screw #6-32 x 7/16	3
6	908615	Lock Rod Guide	3
7	406248	Lock Rod Assembly	1
8	906424	Correct Change Lamp	1
9	130-8R8	Screw #8 x 1/2	12
10	906102	Washer, 1/2 x 3/32 Nylon	2
11	906022	Scavenge Lever	1
12	751S25	Retaining Ring	1
13	906021	Mounting Bracket	1
15	296-6R6	Screw, #6 x 3/8 Type 25	2
16	406021-1	Wiring Harness	1
17	906390	Drain Tube	1
18	906916	Molded Cash Box (w/o decal)	1
19	906757	Cash Box Mounting Bracket	1
20	906351	Compressor Mounting Plate	1
21	908898-5	Sleeve	3
22	906355	Carriage Bolt	3
27	908898-4	Rubber Grommet	3
28	600-516	Plain Washer	3
29	400-416	Hexnut, 1/4 - 20	3
30	-----	Compressor (see box at right)	1
31	110S10R16	Screw	2
32	908907-1	Evaporator Plate	1
33	906375	Spacer	2
34	906536	Drip Tray	1
35	110S10R8	Screw, #10 x 1/2	6
*36	906738	Fan Mounting Bracket	1
*37	908799	Fan Motor	1
*38	906912	2 - 1/2" Fan Blade	1
39	906374	Keyhole Bracket	2
40	906768	Spacer	3
41	110S10R24	Screw	3
42	906763	Bushing	1
43	620-8	Starwasher #8	4
44	906020	Stand-Off	1
45	132-6R6	Screw, #6x3/8 Flat Head	2
46	906391	Tube, Close Off, Rear	1
47	906392	Tube, Close Off, Front	1
48	406-6	Hex Nut, #-32	2
*49	906787	1 Amp Fuse	1
50	909528	"This Side to Front" decal, only	1
51	909293	Cabinet Feet	5
52	132-8-R12	Hinge Screw	7

### \* COMPRESSOR INFORMATION

For Vendors with Serial Numbers prior to #3850000

23	-----	(Not used on these vendors)	
24	906297	Cover .....	1
---	906928	Bales Strap (Not Shown) .....	1
25	-----	(Not used on these vendors)	
26	906926	Starter .....	1
	906929	Overload (Not Shown) .....	1
30	906352	Tecumseh Compressor .....	1

For Serial Numbers between #3850000 and #3880158

23	908898-7	Cord Retainer .....	1
24	908898-2	Cover .....	1
25	908898-3	Clip .....	1
26	406924	Starter Kit .....	1
30	-----	Sanyo Compressor 407464 .....	1

For Serial Numbers between #3880158 and #1930321

23	-----	(Not used on these vendors)	
24	908898-9	Cover .....	1
25	908898-10	Clip .....	1
26	908898-8	Starter .....	1
30	-----	Sanyo Compressor 407464 .....	1

For Serial Numbers between #1930321 and #3950001

23	921290-6	Relay Overload .....	1
24	921290-2	Cover .....	1
25	921290-1	Clip .....	1
26	921290-7	Relay P.T.C. ....	1
30	921290	Compressor .....	1

For Serial Numbers after #3950001

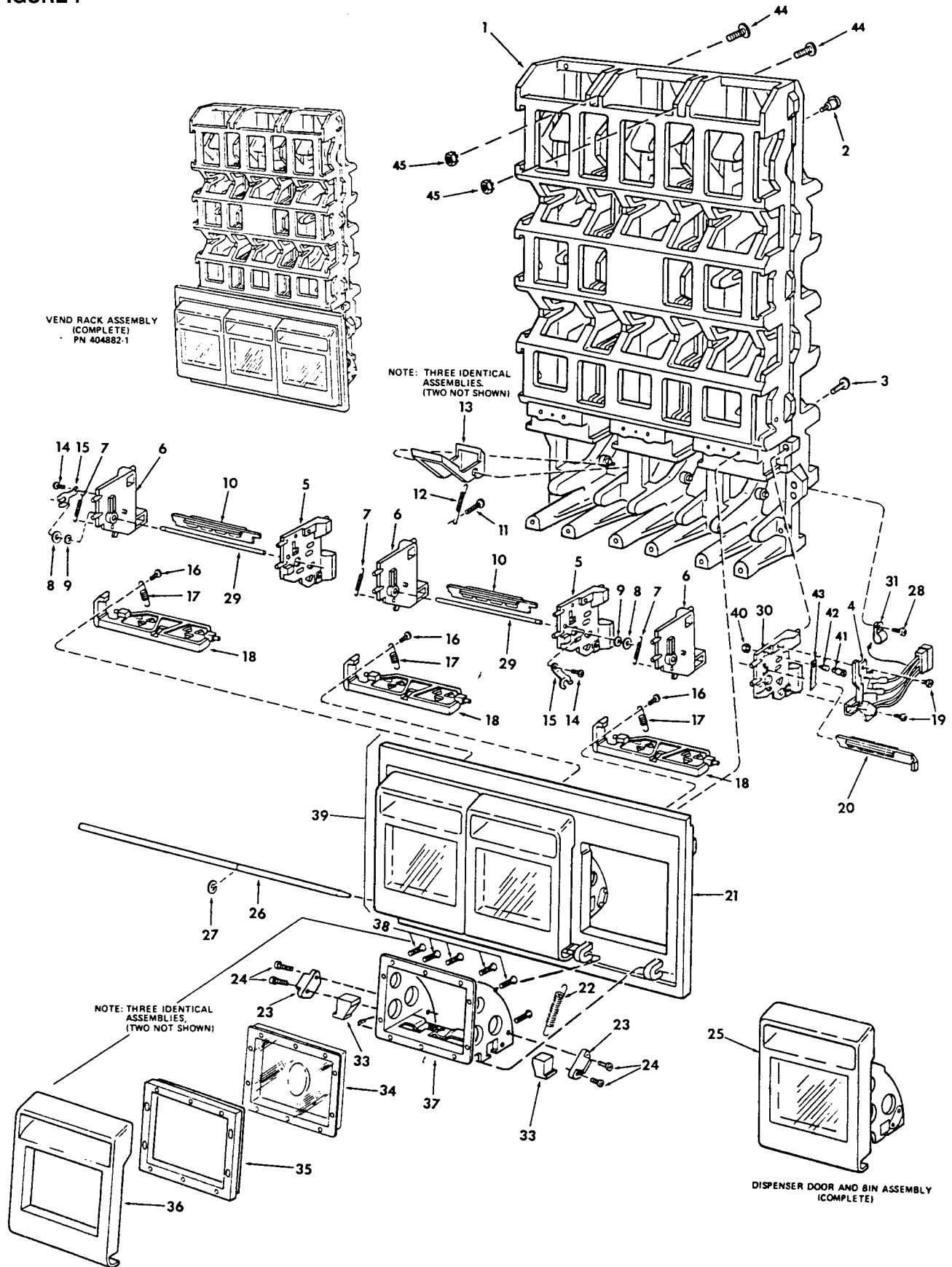
23	921290-6	Relay Overload .....	1
24	921290-2	Cover .....	1
25	921290-1	Clip .....	1
26	921290-7	Relay P.T.C. ....	1
30	921685	Compressor (Refrigerant 134A) .....	1

\*NOTE: Item #23, 24, 25, 26 & 30: Sanyo and Tecumseh compressors are not interchangeable. Items #36, 37 & 38: These items are available as Assembly #406229.

NOTE: Optional Cash Accountability - Assembly No. 406735-1.

Item #49: Vendors with a serial number prior to #4850419 require this fuse.

FIGURE 7



## FIGURE 7 PARTS LIST

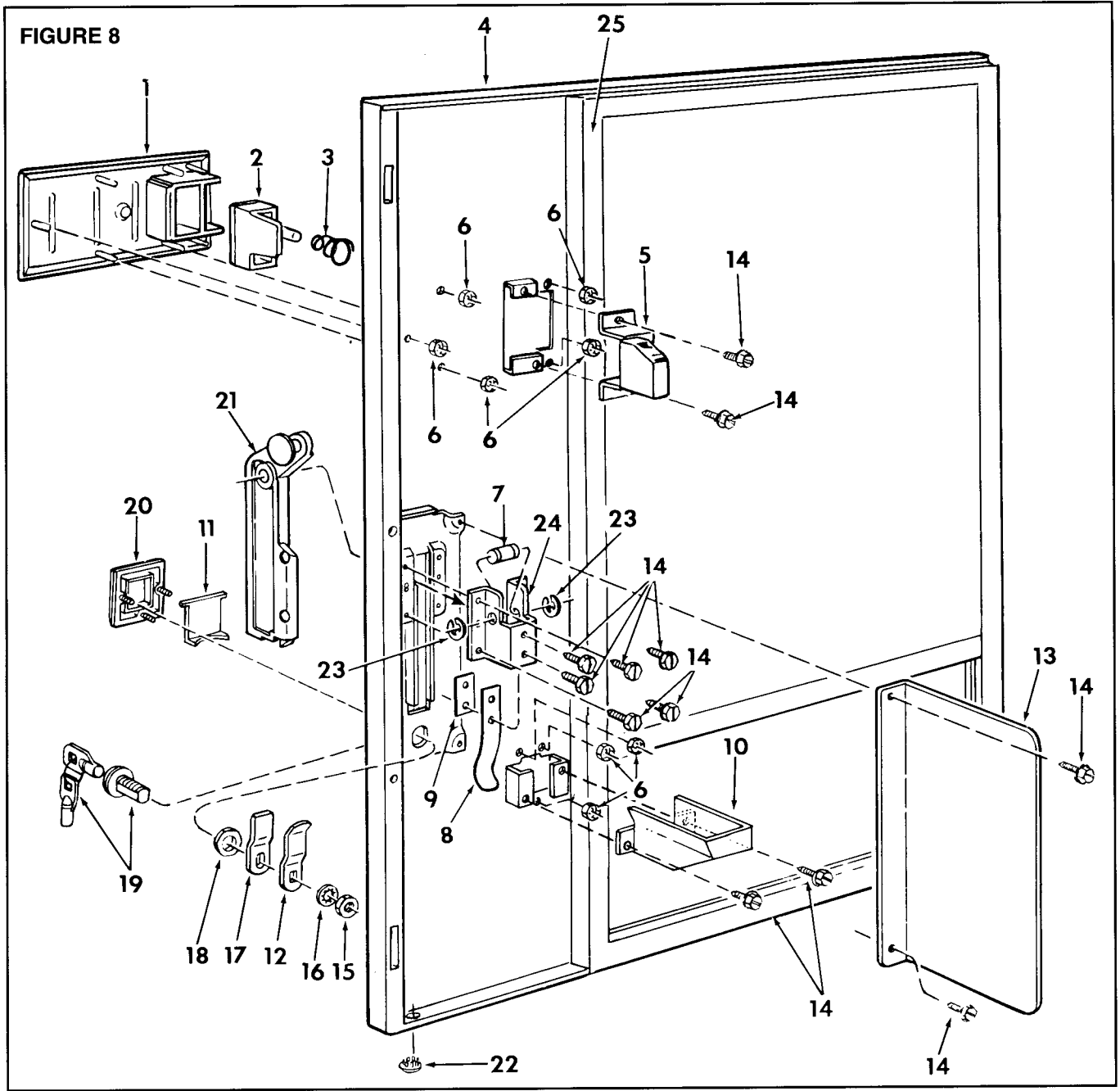
Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	404909	Rack Assembly	1	*23	905995	Bin Stop	6
2	906486	Rack Support Screw	2	*24	345S4R4	Screw, #4x1/4 Plastite	12
3	345S10R9	Screw #10x9/16 Plastite	12	25	404880	Delivery Bin Assembly	3
4	406152-1	Vend Solenoid Assy.	1	26	906006	Pivot Rod	1
5	906472	Solenoid Bracket	2	27	751S25	Retaining Ring	1
6	406059	Pawl Bracket Assy.	3	28	345S6R8	Screw, #6x1/2 Plastite	1
7	906080	Pawl Return Spring	3	29	906498	Lockout Rod	2
8	600C10	Washer, Flat #10	2	30	406256	Solenoid Bracket & Interlock	
9	751S18	Retaining Ring	2			Catch Assembly	1
10	906016	Secondary Slide Rod	2	31	906837-1	Cable Clamp	1
11	345S4R8	Screw #4x1/2 Plastite	3	33	906492	Bin Weight	6
12	906114	Can Cradle Spring	3	34	404878	Lens Assembly	3
13	906473	Can Cradle	3	35	906012	Door Gasket	3
14	345S4R4	Screw, #4x1/2 Plastite	2	36	905990	Dispenser Door	3
15	906699	Lock Rod Return Spring	2	37	406584	Bin & Label Assembly	3
16	345SR8	Screw, #4 x 1/2 Plastite	3	38	345S4R9	Screw, #4x9/16 Plastite	24
17	906081	Can Stop Spring	3	39	404881	Main Panel Dispense Door &	
18	406061	Can Stop Assy.	3			Bin Assembly Complete	1
19	909366	Screw, #4x3/16 Nylok	2	*40	406-4	Hex Nut	1
20	906015	Primary Slide Rod	1	41	909904	Screw	1
21	404881-500	Main Panel	1	42	909903	Spring	1
22	906087-2	Dispensing Door Return Spring	3	43	909905	Interlock Catch	1
				44	116S416R16	Screw	6
				45	436S416	Nut	6

**\*NOTE:**

Item #23 & 24: Vendors manufactured with serial numbers after #2890029 do not require these parts.

Item #40: Vendors manufactured with serial numbers prior to #3870001 require this part.

See "About The Serial Number", Page 3.



**NOT ILLUSTRATED:**

906100-1	35¢ Price Label	906100-8	70¢ Price Label
906100-2	40¢ Price Label	906100-9	75¢ Price Label
906100-3	45¢ Price Label	906100-10	80¢ Price Label
906100-4	50¢ Price Label	906100-11	85¢ Price Label
906100-5	55¢ Price Label	906100-12	90¢ Price Label
906100-6	60¢ Price Label	906100-13	95¢ Price Label
906100-7	65¢ Price Label	906100-14	1.00 Price label

All labels listed are contained in Kit #906100-15.

## FIGURE 8 PARTS LIST

Item No.	Part No.	Description	Qty.	Item No.	Part No.	Description	Qty.
1	406368	Coin Inlet Bezel Assy.	1	15	905584-7	Hex Nut, 9/32-28	1
2	404906	Coin Return Button Assy.	1	16	905584-5	Lock Washer	1
3	903494-2	Gate Spring (Blue)	1	17	906098	Lock Cam	1
		Replacement Door Assemblies		18	905584-3	Hex Nut, 3/4-27	1
4	406534	Black w/ Pepsi Decal (for serial numbers prior to 1855000)	1	19	905584-1	Lock & Keys Keyed Differently	1
	406534-6	Black w/ Pepsi Decal (for serial numbers 1855000 or higher)	1		908650	Lock & Keys Keyed Alike	1
	406534-1	Black, No Decal	1	20	908687	Coin Return Bezel	1
	406534-2	Black w/ Cold Drink Decal	1	*21	406303	Handle Assembly	1
	406534-3	Black w/ 7-Up Decal	1	22	906678	Hole Plug	1
	406534-4	Blue w/ RC Decal	1	23	751-37	E-Ring	2
	406534-5	Red w/ Coke Decal	1	24	906935	Handle Bracket	1
				25	921871-1	Molded Door Gasket	2
*5	406357	Coin Inlet Chute Assy.	1		921871-2	Molded Door Gasket	3
6	906131	Pal-Nut	8			<i>DECALS ONLY</i>	
7	906939	Handle Pivot	1		906112	Pepsi, Front	1
8	908599	Handle Return Spring	1		906113-1	Pepsi, Right	1
9	908612	Spring Mounting Plate	1		903113	Pepsi, Left	1
*10	908685	Coin Return Cup	1		909204	Cold Drink	1
11	905484-2	Coin Return Door	1		909839	Coke, Front	1
12	908659	Latch Guard	1		909841-1	Coke, Right	1
13	906937	Changer Shield	1		909841	Coke, Left (vent side)	1
14	131-6S4	Screw, Sheet Metal	12		909362	RC	1
					909942	7-Up	1
					909984	Dr. Pepper	1
					920036	Pepsi/Ice	1
					909894	Coke-Trademark-Side	1
					909840	Coke-Trademark-Front	1

**\* NOTE:**

*Item #5: When replacing coin inlet assembly (#406357) on vendors with a serial number prior to #1855000, you must use a coin inlet assembly kit (#406524). Kit contains coin inlet assembly and mounting hardware (#406357).*

*Item #10: When replacing coin return cup (#908685) on vendors with a serial number prior to #1855000, you must use a coin return cup kit (#406525). Kit contains coin return cup and mounting hardware (#908685).*

*Item #21: When replacing handle assembly (#406303) on vendors with a serial number prior to #1854500, you must use handle kit #406533. It contains handle assembly and necessary hardware.*

See "About The Serial Number", Page 3.

**THIS COINCO PRODUCT IS COVERED BY THE FOLLOWING PATENTS:**

UNITED STATES PATENT NUMBERS

4,577,780 4,586,633

CANADIAN PATENTS

1,222,230 1,223,846

EUROPEAN PATENTS

UK 2,132,178



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