KIT PART NUMBERS 3280021 AND 3280022
INSTRUCTIONS FOR INSTALLING A SUREVEND™
SYSTEM IN A COLD DRINK CENTER

CHECK THE PARTS RECEIVED IN THE KIT WITH THE PARTS LIST IN THESE INSTRUCTIONS. IF ANY PARTS ARE MISSING, CONTACT THE NATIONAL VENDORS PARTS DEPARTMENT IMMEDIATELY.

Read these instructions carefully before installing the kit.
Keep these instructions for part numbers and for future reference.

THIS KIT CONTAINS THE FOLLOWING

PART NUMBER	DESCRIPTION	QUANTITY
1675006	INSERT-INSTR-UPPER-SUREVEND	1
2204513	WIRE TIE-#PLT 1.5IM	1
3283077	CUP DELIVERY-FINAL-9/12 OZ-SV	1
3283079	CUP DELIVERY-FINAL-12/20 OZ-SV	
3286019	PCB ASSY-IR SENSOR INTERFACE	1
P3286021	IC ASSY VER 328.07	1
5500026	SCREW-8-32 X 3/8 PHS T/F	2
6551022	IR REMOTE BRACKET ASSEMBLY	1
6559011	HARNESS JUMPER TO I/O BOARD	1
9900081	NUT #8-32 KEPS ZINC PLATE	2

Part I. Remove old parts:

1. Turn off power to the machine.

2. Remove existing cup station

3. Remove the existing sensor mug brackets (see figure 1).
   a. Remove the existing cup sensor assembly if applicable. The new SureVend™ bracket has already been assembled with the IR transmitter and receiver.
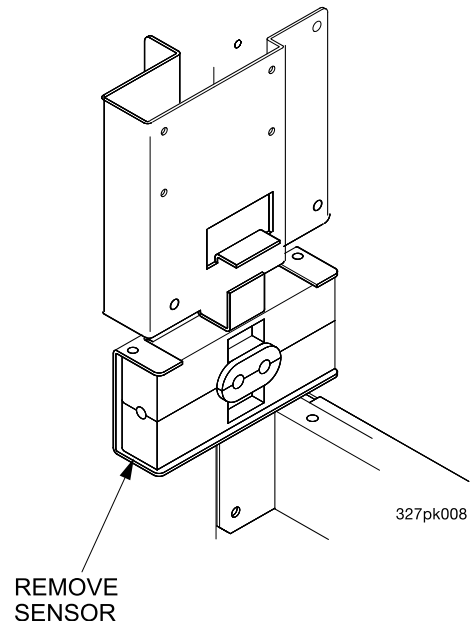

REMOVE SENSOR

327pk008

Figure 1

Part II. Install new parts:

1. Mount IR Remote Bracket Assembly:
    a. Mount the IR Remote Bracket Assembly as shown (see figure 2) with the nuts and screws provided.

2. Plug interface board onto controller (see figure 3):
    a. Remove the tape from the PCB stand-off.
    b. Plug the interface board J3 connector into the J34 header located on the main controller board.
    c. Apply pressure to the PCB mount to ensure that it stays connected over an extended period of time.

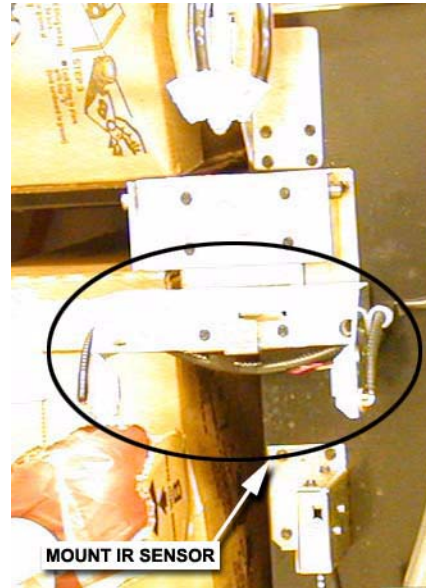   *Do not move the configuration jumper on the sensor interface PCB, connector J2!*

MOUNT IR SENSOR

Figure 2

Figure 3

3. Plug cable harness to interface board (see figure 4):
   a. Plug the small four-pin connector on cable assembly 6559011 into J1 located on the interface board.

4. Route the cable harness (see figure 5):
   a. The cable is shown routed from the cup sensor PCB through the monetary panel.
   b. Route the full cable through the square cable port in the monetary housing and down the back side of the monetary housing.

Note
Solid Line: Cable harness exposed, dotted Line: Cable harness hidden.

Make sure that there is a cable tie(provided) on the cable harness to provide strain relief to the connector! If not the cable harness could slip off the connector over time. Secure the cable tie to the cup sensor harness and the cable harness coming from connector J-31 of the main controller PCB!
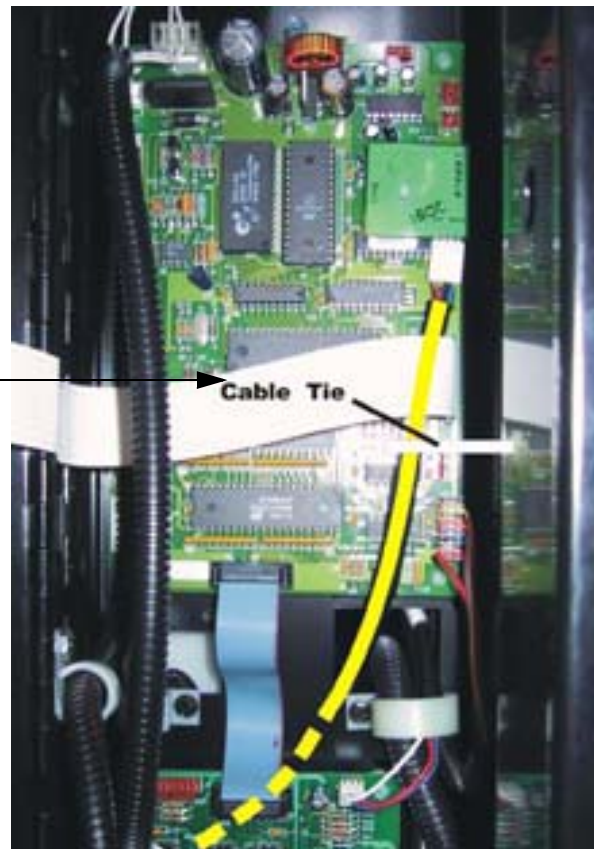
Figure 4

2204513
CABLE TIE

Figure 5

c. The harness (6559010) from the sensor bracket assembly is shown routed next to the water bath and up the side of the monetary panel and connected to the 6559011 harness behind the monetary panel (see figure 6).
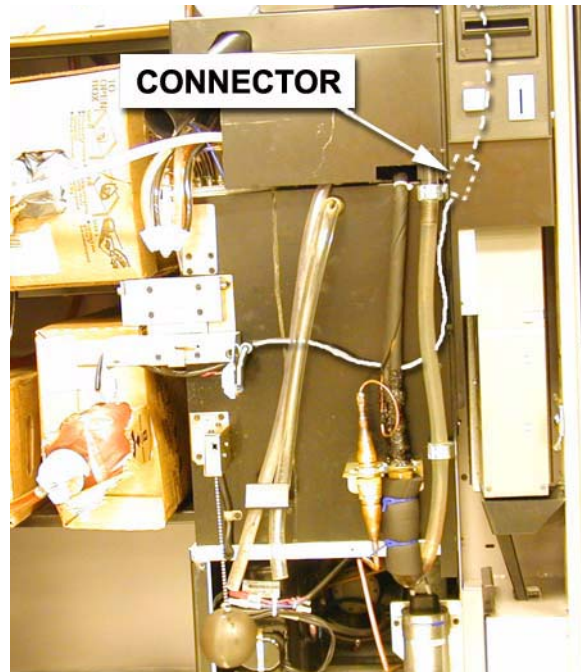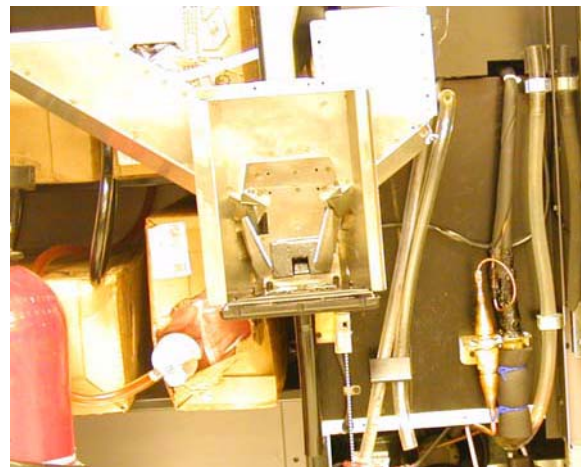
5. Install the new cup station (see figure 7).

CONNECTOR

Figure 6

Figure 7

6. Follow the detailed instructions to correctly install the new EPROM. So damage will not occur. (See figures 8 and 9)

CAUTION
Make sure that the EPROM has been correctly installed. Damage could occur to the component and/ or the Controller PCB if the EPROM is not correctly installed.

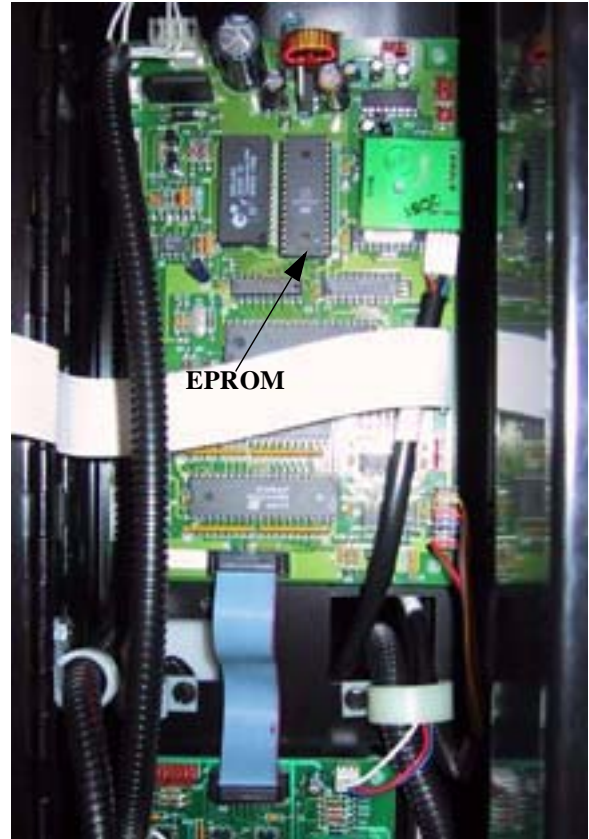*Observe proper static grounding procedures to prevent damaging circuitry.*
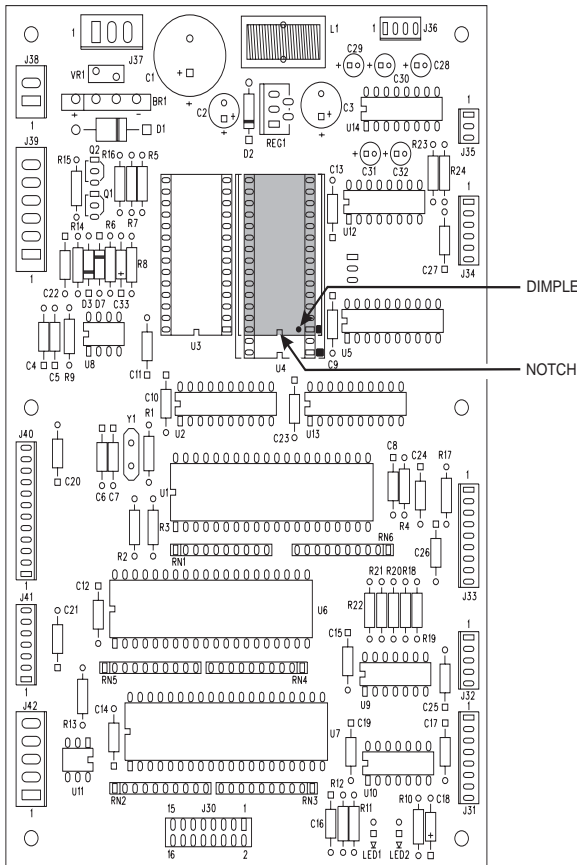

Figure 8

Figure 9

INSTRUCTIONS FOR REPLACING AN EPROM

Read these instructions carefully before installing the EPROM.

CAUTION

You will need to RECORD all times and COUNTERS. The installation of a new EPROM can change counters and times. Do not remove the new EPROM from its shipping carton until you are ready to use it.

Proceed as follows:

1. Turn the machine power switch OFF**.**
2. The controller cover is located behind the monetary door near the top of the machine. Remove the controller cover:
    a. Loosen the hex head screws securing the controller cover to the machine.
    b. Move the controller cover out of your way.

CAUTION

Observe electrostatic discharge precautions to protect the electronics from damage while they are being handled. Wear a grounded wrist strap connected to any unpainted metal part of the machine. If a wrist strap is not available, remove any electrostatic charge (static electricity) from yourself by touching any unpainted metal part of the machine before handling any electronic component. Do this often during the removal and installation process.

3. On figure 10, see the shaded area representing EPROM U4. These devices have various means of showing how they are to be oriented on the circuit board. Some EPROMS will have a small notch which matches the notch printed on the controller board. Other EPROMS may have a small dimple as shown, others may have a painted stripe. Take note of where the locating mark is on the EPROM currently mounted on the controller board. Your new EPROM will be placed in that same orientation. If the replacement EPROM is a 28-pin device, it does not use the entire socket. The shaded area on (figure 10) is where the new EPROM will go, leaving the four holes at the bottom of the socket empty. If the replacement is a 32 pin device it will fill the entire socket in (figure 10).
4. Carefully remove the old EPROM from the controller board. Use an EPROM removal tool or a thin tool such as a small screwdriver or knife blade to gently rock the EPROM from its socket.
5. Carefully insert the new EPROM in the controller board. **MAKE SURE THE LOCATING MARK (NOTCH, DIMPLE, STRIPE) ON THE EPROM IS FACING THE SAME WAY AS ON THE OLD EPROM! Make sure each of the pins is in its respective hole in the socket before pushing the EPROM into place.**
6. Carefully seat the EPROM into place using uniform pressure all around.
7. Replace the controller cover and tighten both screws.
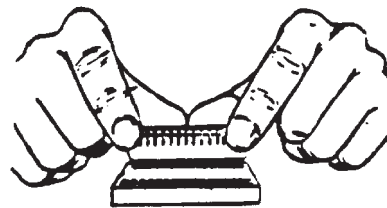8.) Restore power to the machine.

MAKE SURE THE
NOTCH ON THE EPROM
LINES UP WITH THE NOTCH
ON THE SOCKET

USE AN IC PULLER
OR A SMALL SCREWDRIVER
TO REMOVE THE EPROM

CAREFULLY PLACE THE NEW
EPROM IN THE SOCKET, MAKING
SURE ALL THE PINS ARE IN THEIR HOLES.

Part III. Verifying Operation:

1. Turn the power on.

2. Push ⬚, then ⬇ until the display shows $\mathsf{SURE.V\ \ ON}$ to make sure that SureVend™ is

    on. If something else is displayed, push ⬚[EDIT] until $\mathsf{SURE.V\ \ ON}$ is in the display.

3. Press ⬇ until the display shows $\mathsf{OPT'NSURE.V.}$ If $\mathsf{MUSTSURE.V}$ is displayed, push ⬚[EDIT]
    until $\mathsf{OPT'NSURE.V}$ is displayed.

4. Press ⬚, then press ⬇ until the display shows $\mathsf{IN.MKPHL12.}$ An '**M**' should appear in
    the 1st digit to the right of the decimal point when you block the mug sensor. A dash (**-**) should
    appear in this location if the cup station is empty.

5. Press ⬇ until the display shows $\mathsf{CAL.LST\ \ XXX.}$ Note the number in the right hand side of
    the display.
    a. If this number is either **0** or **255** with the cup station empty there is a problem with the instal-
        lation. Although **51** through **254** are valid numbers, this reading is usually between **180** and
        254 with the J2 jumper on the IR sensor interface board in the factory set position.

6. If all is OK to this point, cycle the door switch by pushing it in and then releasing. There
    shouldn't be any SureVend™ related diagnostics on the display. SureVend can not be tested in
    test mode. To test the operation of SureVend, enable FreeVend mode and make a selection.

7. Be sure to clear all the individual data fields for the SureVend™ counters in the data recall list if
    they are non-zero.