INSTRUCTION SHEET

for Universal Replacement Thermostats

⚠WARNING

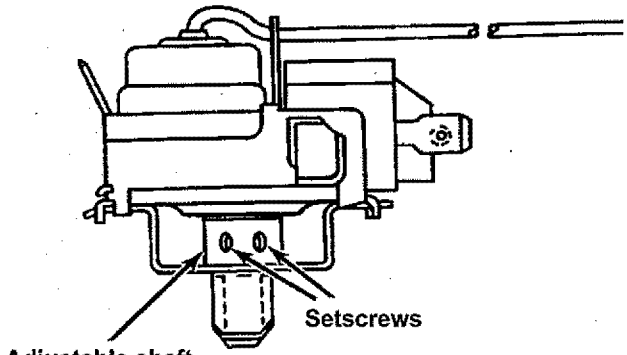
Electrical Shock Hazard

Disconnect power before servicing.

Replace all panels before operating.

Failure to do so can result in death or electrical shock.

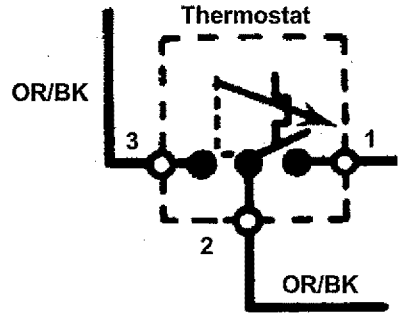
This is an FSP approved design thermostat for use as a replacement for original applications.



NOTE: Coupling is in the off position. If different off position is required, loosen setscrews in the shaft. Turn the shaft to the required position and tighten setscrews.

1. Unplug freezer or disconnect power.
2. Wiring instructions:

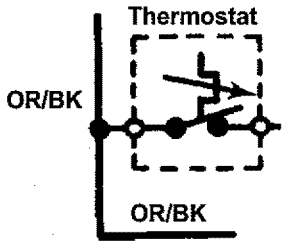
   For replacing a thermostat with a manual switch, wire as follows: The old thermostat with a manual switch had three terminals, as shown below.



   To connect the new thermostat which has two terminals, it is necessary to do the following:

   A. Remove the black/orange wires from terminals 2 and 3. If both wires have ¼" terminals, use a terminal multiplier to attach these two wires to one terminal on the new thermostat. If one terminal is ¼" and one is 3/16", cut the 3/16" terminal off. Splice the wire onto the ¼" terminal. Place the spliced wires on a terminal on the new thermostat.

   B. Remove the wire from terminal 1 and place it on the other terminal on the new thermostat. The new thermostat wires should be connected as shown below.



3. Install thermostat and place knob in position. Position capillary tube in original position. Coil any extra capillary tubing out of the way, where it will not make contact with the liner or electric terminals.
4. Thermostat barriers:

   The plastic barriers in this kit are to be used only if the old control had a barrier. Select the barrier from the two supplied, with the proper wall thickness to assure proper thermal action.

   Straighten the capillary tube to install the barrier. Be careful not to crimp the capillary tube.

   The barrier can cover the entire capillary tube with a 3/8" overlap at the end in most applications. If, however, the end of the capillary tube is exposed as on thermostat 530332, measure the length of the exposed capillary tube, cut this length off the barrier before putting it on the capillary tube. This will ensure the proper exposure.
5. Replacement thermostat cycling temperature:

	ON	OFF
Cold	-5.4°	-18.1°
Midpoint	-.8°	-10.6°
Warm	+8.0°	-2.0°

The knob rotation on the new thermostat from warm to cold is about 180°. Some of the thermostats being replaced have a smaller rotation, but by setting the midpoint constant and going from there to warm or cold, there is only a small temperature loss. What is the warmest setting will now be a little colder and the coldest setting will now be a little warmer. If a colder or warmer temperature is desired with a small rotation, it can be accomplished by loosening the setscrews that mount the shaft and by rotating it counterclockwise to colder, clockwise for warmer. A 45° move to the shaft will cause a 3° temperature change. That is: by moving the knob shaft counterclockwise 45°, both the warm and cold settings would get 3° colder.