



WHITE-RODGERS

1/26/89
INSTALLATION INSTRUCTIONS

1E30-373 LOW VOLTAGE THERMOSTAT

This low voltage room thermostat has open on rise switch action and is designed for use on various types of heating plants. It is equipped with an adjustable heater which may be adjusted for primary control current draws of .15 to 1.0 Amps. A locking cover and kit of 4 allen screws and wrench is provided to prevent tampering.

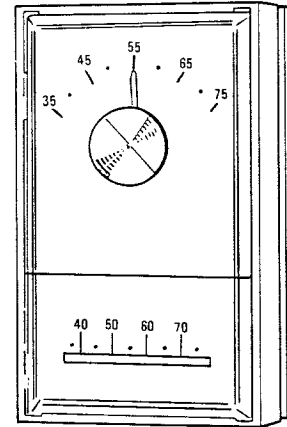
SPECIFICATIONS

Switch Rating:

Heating: 1.0a at 30vac max.

Heating Anticipator: .15 to 1.0a

Range: 35°F to 75°F



SELECTING LOCATION

The proper location of the room thermostat is most important to insure that it will provide a comfortable home temperature. Observe the following general rules when selecting a location:

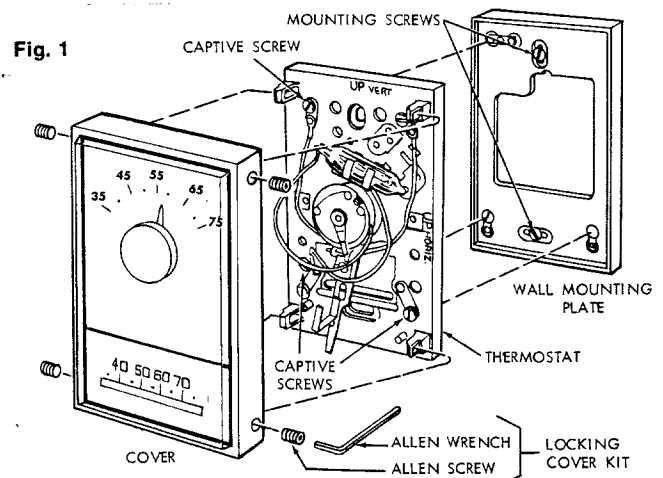
1. Locate it about 5 ft. above the floor.
2. Install it on a partitioning wall, not on an outside wall.
3. Never expose it to direct light from lamps, sun, fireplaces, etc.
4. Avoid locations close to doors that lead outside, windows, or adjoining outside walls.
5. Avoid locations close to radiators, warm air registers, or in the direct path of heat from them.
6. Make sure there are no pipes or duct work in that part of the wall chosen for the thermostat location.
7. Never locate it in a room that is warmer or cooler than the rest of the home, such as the kitchen.
8. The living or dining room is normally a good location, provided there is no cooking range or refrigerator on opposite side of wall.

ROUTING WIRES TO LOCATION

1. Before drilling hole in wall at selected location, take up quarter round and drill a small guide hole for sighting. From basement, drill 3/4" hole in partition floor next to guide hole. (On basementless houses, drill 1/2" hole through ceiling above partition.)
2. Probe for obstructions in the partition. Then drill 1/2" hole through wall at selected location.
3. Through this hole in wall drop a light chain, or 6" chain attached to a strong cord, and snag cord with hooked wire from basement. (On basementless houses, drop cord from ceiling and snag it at the thermostat location).
4. Attach thermostat cable to cord and pull cable through hole in wall so that 6" of cable protrudes.

MOUNTING THERMOSTAT

1. Pull thermostat wires through large hole in center of wall mounting plate and fasten wires beneath two terminal screws on bottom side of plate. (fig. 1)
2. Push excess wire into wall or switch box and **plug up hole to prevent drafts from affecting thermostat operation.**
3. **Thermostat must be level to assure optimum performance.** Place level on top of wall mounting plate and mark hole locations for mounting screws. Attach plate loosely to wall with the two screws provided. Again place level on top of plate to be sure it is level. Then tighten screws.
4. Remove cover from thermostat base by pulling outward. **Remove and discard pad** (shipping protection for switch). Place thermostat base onto wall mounting plate and tighten all three captive screws securely. Install thermostat cover and tighten all four allen screws down with wrench to prevent tampering.



All wiring should be done according to local and national electrical codes and ordinances.

Because of the many possible uses of these room thermostats, no wiring diagrams are presented. Use the wiring diagram that is shown on the instruction sheet that is packed with the primary control, or the one that is supplied by the manufacturer of the heating equipment.

HEAT-ANTICIPATION

This thermostat is equipped with an adjustable heater. Set heater indicator to match the current rating of the primary control. The heater may be adjusted for current ratings from .15 to 1.0 Amps. (fig. 2)

Adjustments

Cycles too long — Set adjustable heater to a slightly lower dial setting (1/2 division).

Cycles too short — Set adjustable heater to a slightly higher dial setting (1/2 division).

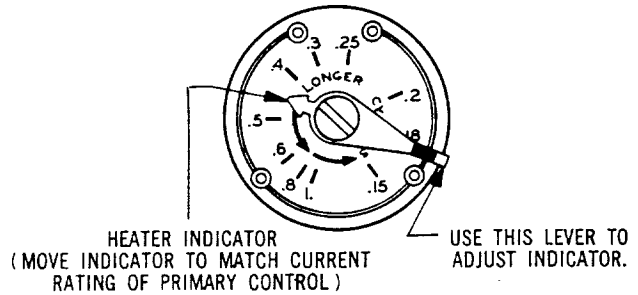


Fig. 2

CALIBRATION ADJUSTMENT

These thermostats have been carefully adjusted at the factory and should not require re-calibration.

A few degrees difference between the indicator setting of the thermostat and actual room temperature is not considered too important. If the disagreement is much greater, however, first make sure that the thermostat is properly located and leveled. Then, if re-calibration still seems necessary, proceed as follows:

1. Move temperature adjustment lever to a setting about 5° above room temperature.
2. Remove thermostat cover. Slip standard 7/32" wrench onto hex nut beneath bimetal, and, holding temperature adjustment lever stationary, turn hex nut **clockwise** until mercury shifts to right end of tube. (fig. 3)
3. Move temperature adjustment lever to lowest setting.
4. Replace thermostat cover. Wait 10 minutes for bimetal temperature to stabilize. Don't stand near thermostat during this period as your breath and body heat will affect temperature of bimetal.
5. Move temperature adjustment lever to correspond to actual room temperature. Then remove thermostat cover.
6. Slip 7/32" wrench onto hex nut, holding temperature adjustment lever stationary, turn hex nut **counterclockwise** until mercury just barely shifts to left end of tube. Then replace cover and set thermostat to desired temperature.

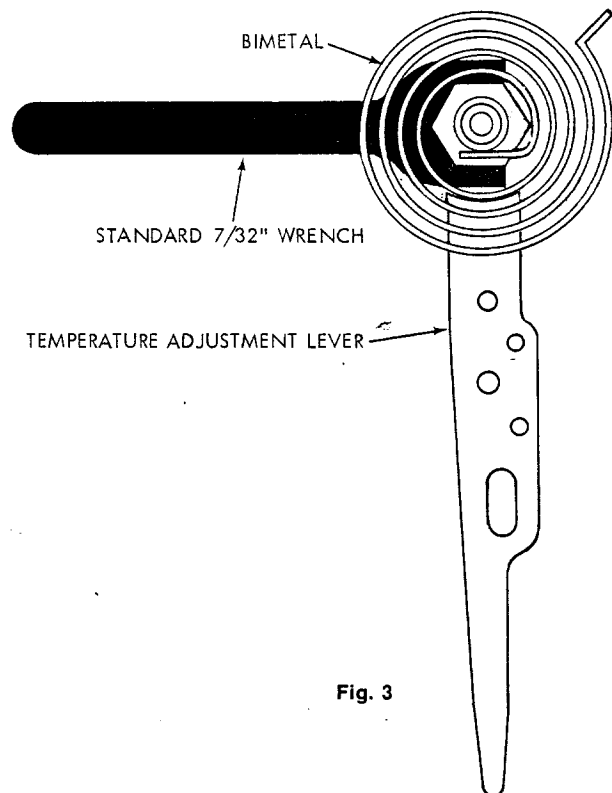


Fig. 3