

INSTALLATION INSTRUCTIONS

3600-367P Heat Pump Thermostat Manual Changeover

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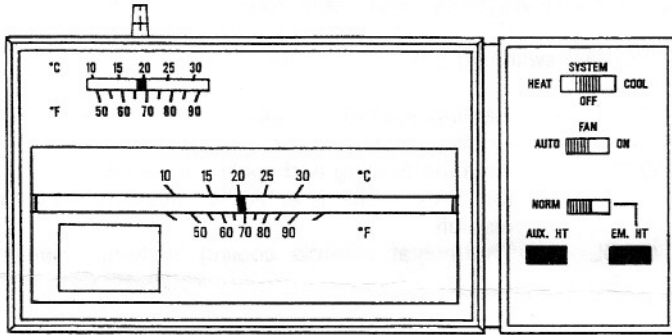


Figure 1, Thermostat

SPECIFICATIONS

Range 50° to 90° on heating cycle. 50° to 90° on cooling cycle.
Adjustment Means: A single setting lever is used for heating or cooling control. Heating or cooling selection is made by positioning system switch.
Differential: Heating or cooling 2°F.
Switch Rating: Mercury switches 1.5 amps at 24 volts. Slide switches 2 amps at 24 volts.
Scales: Centigrade and Fahrenheit.
Dimensions: 6.3" x 2.75" x 1.72"

IMPORTANT

The thermostat is specially packed for shipment. However, it must be handled carefully. Carefully remove crystal and logo from bag. Remove the thermostat cover assembly. Select the proper logo, remove it from the protective backing, and affix to the debossed area on the thermometer cover. With the beveled portion up, insert the left-hand end of the crystal into the cover and press into place. Reassemble the cover after the thermostat has been mounted to the wall.

INSTALLATION

Location: Locate the thermostat on an inside wall since the temperature of outside walls varies with outdoor conditions.

- The position on the inside wall must be at least 18 inches from the junction with an outside wall.
- The vertical location should be about five feet above the floor and should permit a free flow of room air over the thermostat.
- Having made a tentative selection of the best mounting location, check against the following possible objections:
 - Steam pipes, water pipes, or warm air stacks in adjacent partition space.
 - Cold, unused room on opposite side of partition.
 - Kitchen range on opposite side of partition.
 - Subject to radiation from fireplace or direct sun effect from windows.
 - Subject to drafts from stairwells or outside doors.
 - In direct path of air currents from air delivery registers.
 - Heat from nearby lamps, radios or television sets.

UNPACKING

After removing thermostat from carton, disassemble as follows:

- Remove the thermostat cover by pulling the bottom edge of cover upward until it snaps free.
- Carefully remove and discard the packing, which protects the mercury switches and thermometer during shipment.
- Place cover in a safe place while mounting the thermostat.

THERMOSTAT MOUNTING

- At the location selected, prepare an opening for the thermostat wiring.
- Run low voltage thermostat wires to the location and pull about 4" through the wall opening and lead through large opening in thermostat indicated in Figure 2.
- Fasten thermostat on wall or a horizontal outlet box using two elongated holes as indicated in Figure 2.
- Level the thermostat using a carpenter's level. Minor out-of-level adjustments can be made by using elongated mounting holes.

IMPORTANT

Inaccurate leveling will cause thermostat control deviation. Care must be taken to mount thermostat in a true, level position.

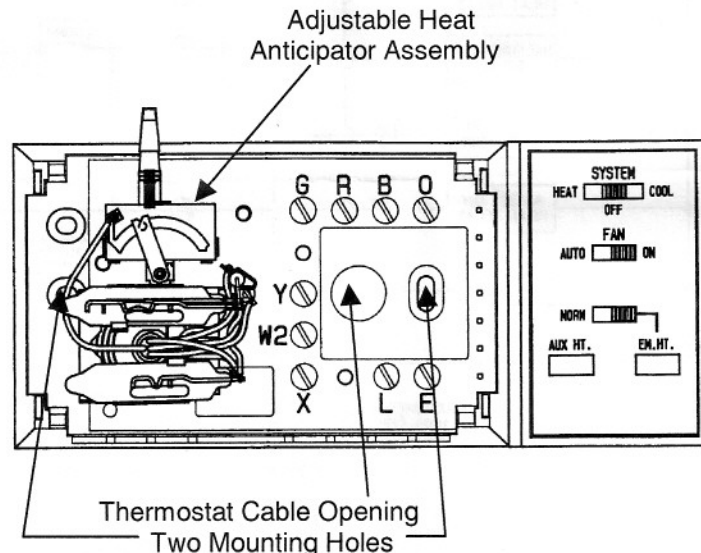


Fig. 2 Thermostat with Cover Removed

WIRING

1. All wiring must comply with applicable codes and ordinances.
2. Connect leads to terminals of heat pump unit and room thermostat. Refer to Installation Instructions of the heat pump and Figure 3 for wiring instructions.
3. A letter code is near each terminal for easy identification.
4. Push excess wire back into wall and plug wall opening with putty or caulking material to prevent drafts from affecting thermostat.
5. Snap cover into place by slipping it over the four plastic pressure springs at the corners of the thermostat.

CYCLE RATE ADJUSTMENT

Only the second stage heat anticipator can be adjusted. The pointer of the adjustable anticipator (See Fig. 2) should be set to the circuit steady state current draw. If a cycle rate adjustment is desired, small movement of the pointer to the left will slow it; to the right will increase it. The remaining heating and cooling anticipators are fixed type and are not adjustable.

Note

It takes at least one hour after the room temperature has reached the thermostat setting for all sensors to stabilize.

DISPOSAL NOTICE



If this control is replacing a control that contains mercury, do not place your old control in the trash. Contact your local waste management authority for instructions regarding disposal of an old control containing mercury.

THERMOSTAT CONTROL PANEL OPERATION

To the right there is a control panel which has three switches and two lamps. The "SYSTEM" switch, "FAN" switch and "NORMAl" switch; red "EMERGENCY HeAT" lamp and blue "AUX HeAT" lamp.

"SYSTEM" switching positions control thermostat operations as follows:

- HEAT - Heating system is controlled by the thermostat. Cooling system is off.
- OFF - Both the heating and cooling systems are off. If the "FAN" switch is at "AUTO" position, the fan is also off.
- COOL - Thermostat controls cooling system. Heating system is off.

"FAN" switching positions control fan operation as follows:

- AUTO - Fan operates with heat pump.
- ON - Fan operates continuously.

"NORMAl" switching position controls heating operation as follows:

- NORMAl - Heat pump and auxiliary heaters operate normally. Emergency heat lamp is off.
- EM HT - Energizes auxiliary heaters through thermostat operation and de-energizes the heat pump. The red emergency heat lamp is on all of the time.

EMERG.HEAT LAMP - Red lamp is on when "NORMAl" switch is in the "Emergency Heat" position.

AUX. HEAT LAMP - Blue lamp is on whenever the auxiliary heaters are energized.

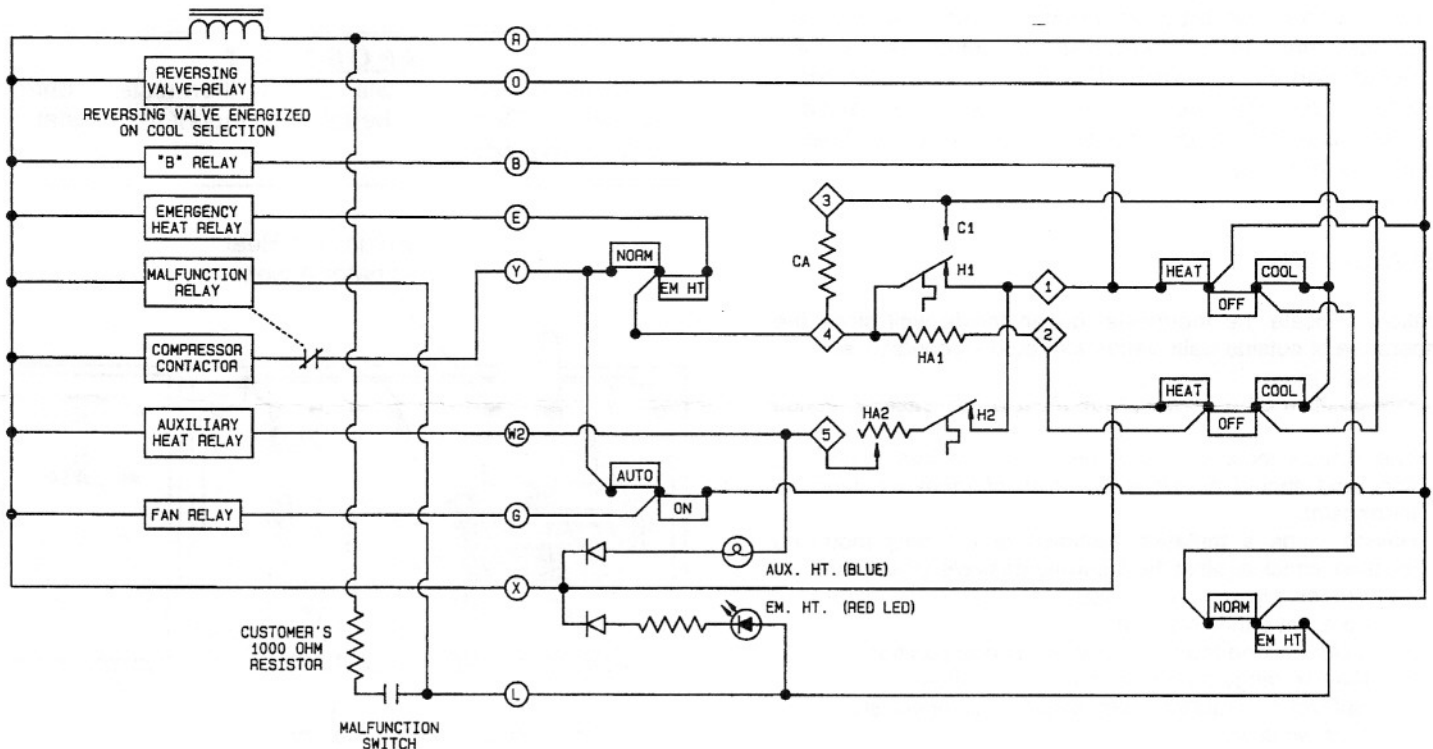


Figure 3 Internal Wiring Schematic