

The T6051 Heavy Duty Thermostat may be used in heating only systems, cooling only systems, combination heat-cool systems (system changeover means must be provided), or as a series 60 controller for valves or motors.

The T6052A is for two stage heating or two stage cooling systems. The T6052B is for one stage heating-cooling systems with automatic changeover.

The Q651 Subbase may be used with the T6051 and T6052B thermostats to provide system switching at the thermostat location. Refer to applicable specification sheet for additional information.

INSTALLATION

LOCATION

Locate the thermostat about five feet above the floor on an inside wall where it will be affected only by the average temperature of the room. The T6051A may be mounted either vertically or horizontally.

If using a Q651 Subbase, refer to the instructions packed with the subbase.

MOUNTING

1. If mounting horizontally, coverplate must be changed. To remove vertical coverplate, bend four corner tabs to outside and push out on cover. Place horizontal coverplate on cover frame and bend four corner tabs to inside. (See Fig. 1).

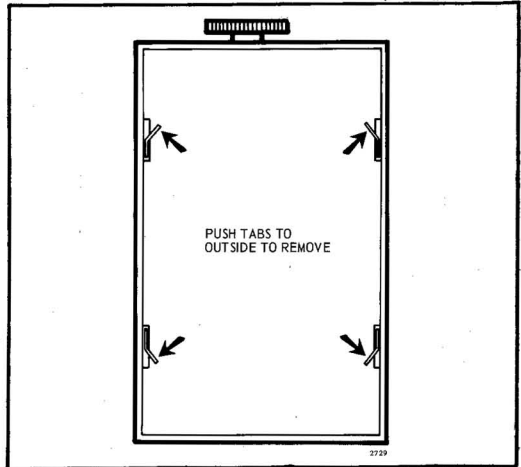


Fig. 1—Changing coverplate for horizontal mounting.

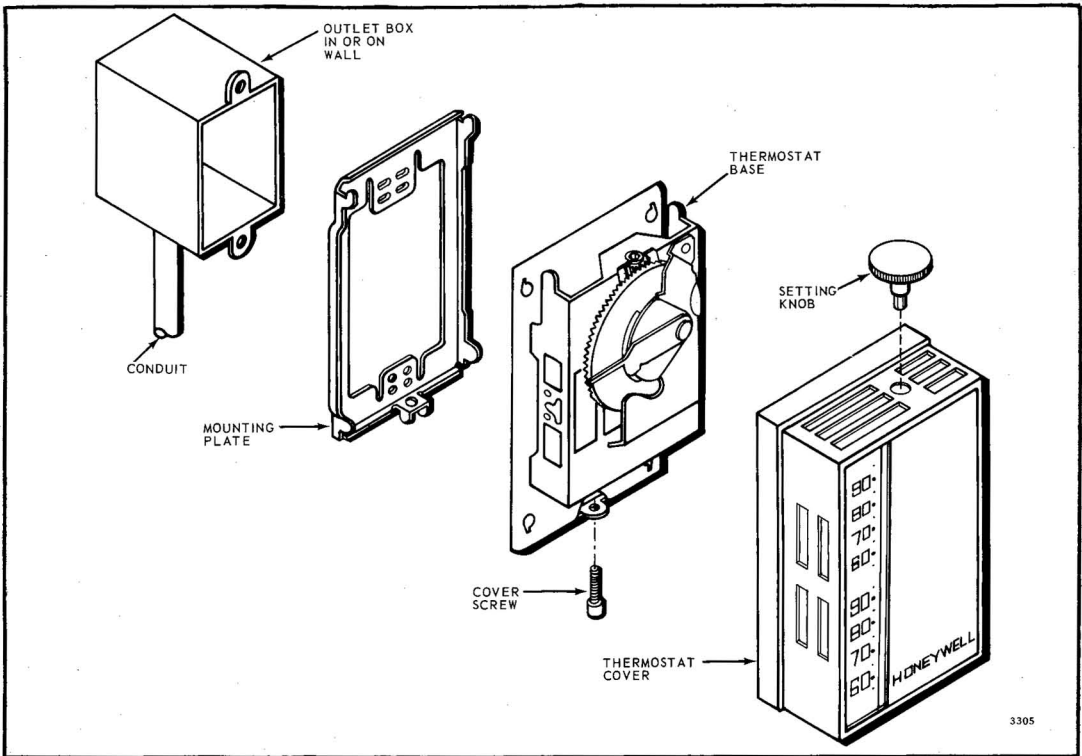


Fig. 2—Mounting Thermostat on Outlet Box.

2. Mount the 2 by 4 inch outlet box either vertically or horizontally, as desired.
3. Run conduit between the outlet box, power source, and the unit being controlled. Leave about six inches of wire in the box for connections. (Refer to the WIRING section for the number of wires required.)
4. Place the mounting plate on the outlet box either vertically or horizontally. Insert the two furnished mounting screws, leaving them loose enough to move the mounting plate for leveling. See Fig. 2.
5. Level the mounting plate and tighten the mounting screws. (See Fig. 2.)
6. Connect the heating and/or cooling system wires or the Series 60 equipment wires to the back terminals of the thermostat. See Figs. 3–10.
7. When wiring is complete, secure the fiber insulator by snapping the holes in the flap over the switch rivet heads. When the normally open terminal is used, clip the flap to allow it to pass around the wire.
8. Hang thermostat on mounting plate tabs, see Fig. 2.
9. Take socket-head cover mounting screw (furnished) and insert it in tab at bottom of base. Do not tighten. Replace cover.
10. Insert set point knob into socket-head screw and tighten. This fastens cover and thermostat to the mounting plate previously attached to outlet box. Remove knob.

WIRING

CAUTION

Disconnect power supply before making wiring connections to prevent electrical shock and equipment damage.

All wiring must agree with local electrical codes and ordinances. Refer to the wiring diagrams below, instructions packed with the subbase, and heating and/or cooling equipment manufacturer's instructions.

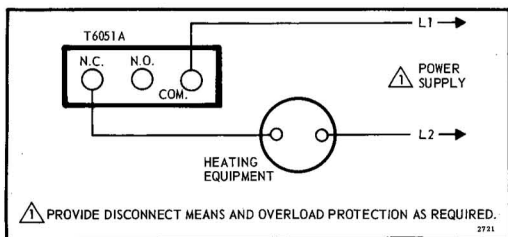


Fig. 3—T6051A used in heating only application.

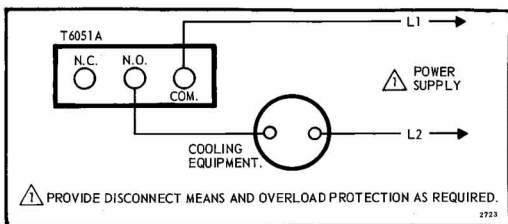


Fig. 4—T6051A used in cooling only application.

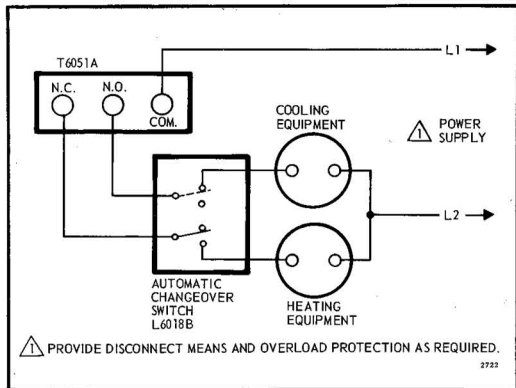


Fig. 5—T6051A heating-cooling control for separate heating and cooling equipment.

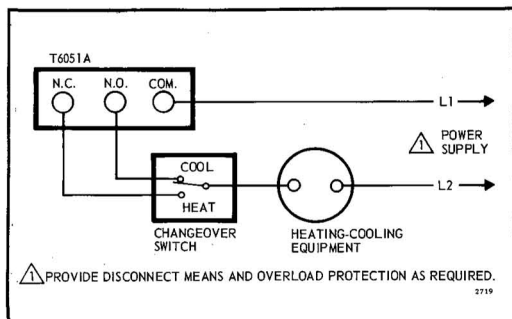


Fig. 6—T6051 heating-cooling control with changeover switch for combination heating-cooling equipment.

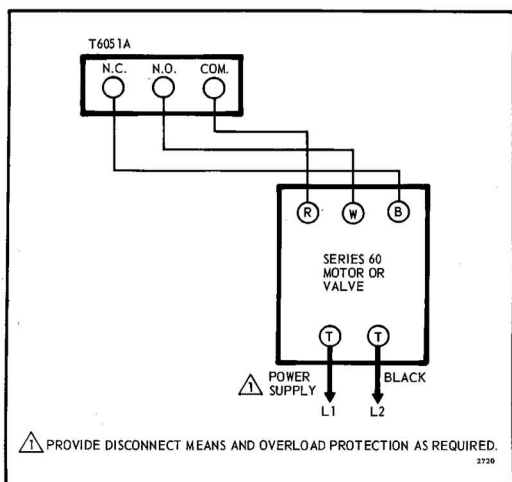


Fig. 7—T6051 used as a series 60 control. 3-wire, line voltage, two position control.

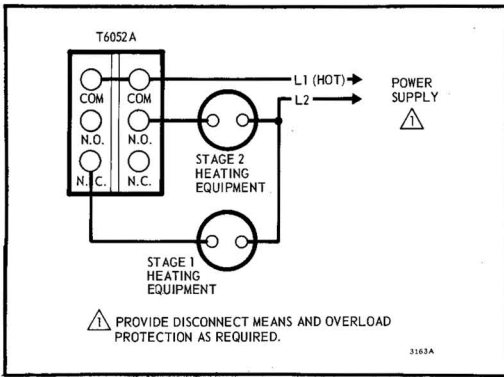


Fig. 8—Typical hookup of T6052A to control two stage heating system.

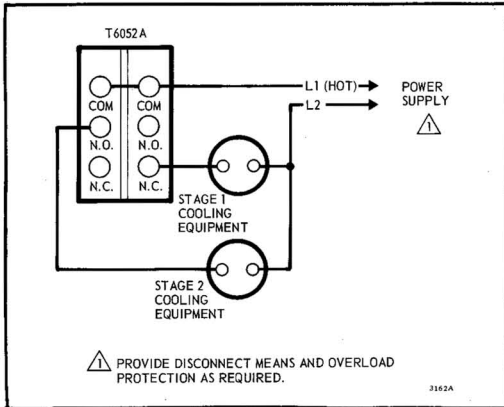


Fig. 9—Typical hookup of T6052A to control two stage cooling system.

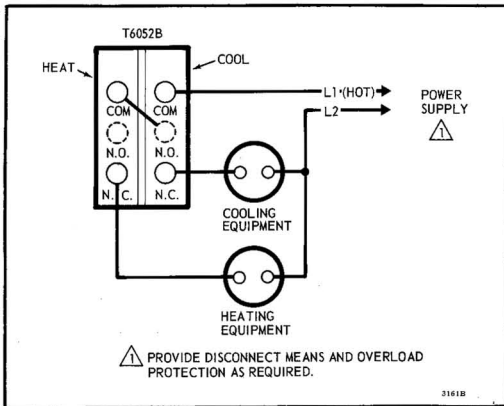


Fig. 10—Typical hookup of T6052B to control heating cooling system with auto changeover.

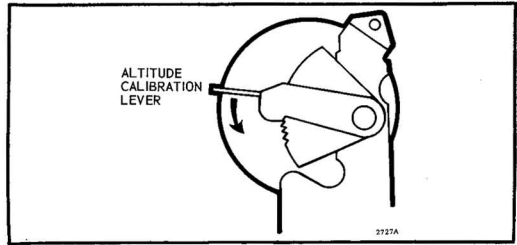


Fig. 11—Altitude calibration

Each notch on the calibration mechanism represents 2,000 feet. If you are above sea level use the chart to determine how far to move the indicator:

ALTITUDE CALIBRATION

This thermostat was calibrated at the factory for accuracy at 1,000 feet above sea level. It may be necessary to reset the thermostat for the altitude of your locality. If you do not know your altitude, consult your local U.S. Weather Bureau or Public Library.

| Elevation (in feet) | Indicator |
|---------------------|---------------------|
| 0 to 2,000 | Leave as is |
| 2,000 to 4,000 | Move down 1 notch |
| 4,000 to 6,000 | Move down 2 notches |
| 6,000 and above | Move down 3 notches |

OPERATION AND CHECKOUT

After the thermostat is installed and wired, operate it manually to make certain it is connected properly. Checkout will depend on type of hookup and controlled equipment. For cooling control check, turn the setting knob to move the indicator down the scale. This initiates a call for cooling and the cooling equipment should respond. For heating control check, turn the setting knob to move the indicator up the scale. This initiates a call for heat, and the heating equipment should respond. For heating/cooling control, check both heating and cooling as described above. For Series 60 control check, cycle the equipment through the T6051A and make sure it functions as intended.

CAUTION

If the thermostat is controlling a compressor, allow at least two minutes between on cycles to equalize the internal pressure. Rapid cycling might damage the compressor and overload the electrical circuit.

TO LOCK

After altitude adjustment is complete, replace the cover and set cover screw with set point knob. With the knob again in place, move the set point indicator to the desired temperature setting. Remove the set point knob to lock the set point.

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2. If inspection by the Company does not disclose any defect covered by the guarantee, equipment will be repaired or replaced and the Company's regular service charge will apply;
3. WITH EXCEPTION OF THE FOREGOING AND UNLESS SPECIFICALLY EXPRESSED IN WRITING, THE COMPANY MAKES NO EXPRESS WARRANTIES, NO WARRANTIES OF MERCHANTABILITY AND NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF."

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