



Installation Instructions

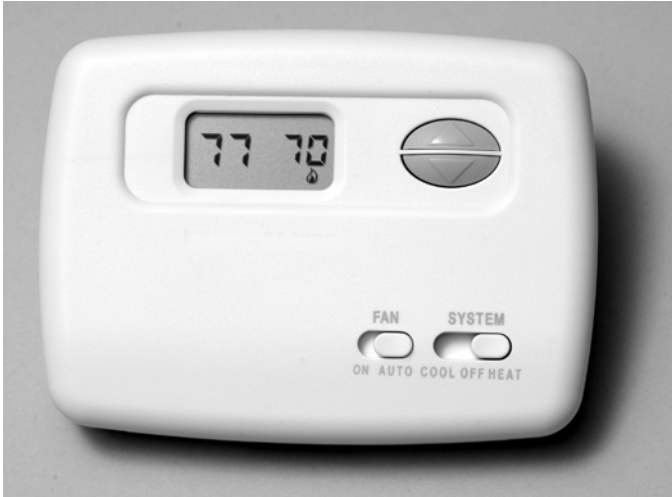
MODEL LS-HC

Limit-Stat™

Single Stage (1H/1C)

Non-Programmable Thermostat

Patent Pending



REQUIRES the thermostat to turn on the fan set the ELECTRIC/GAS switch to the electric position. (See Thermostat Details) This will allow the thermostat to energize the fan immediately on a call for heat.

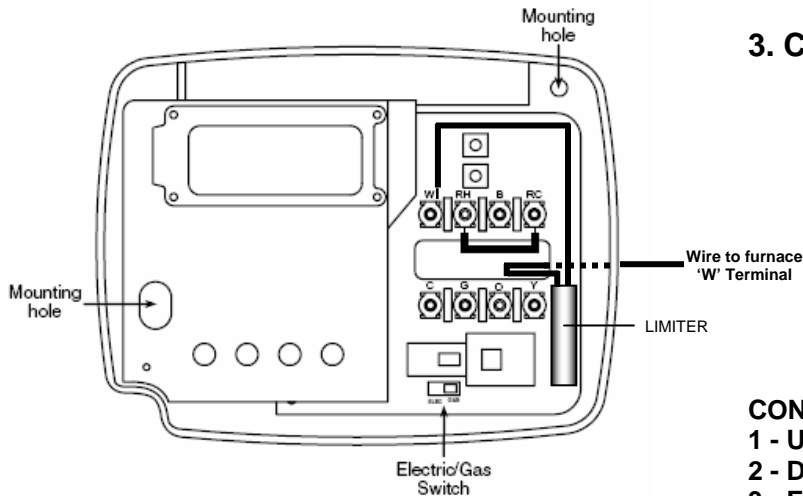
WARNING

Do not use on circuits exceeding specified voltage. Higher voltage will damage control and could cause shock or fire hazard. Do not short out terminals on gas valve or primary control to test. Short or incorrect wiring will damage thermostat and could cause personal injury and/or property damage. Thermostat installation and all components of the system shall conform to Class II circuits per the NEC code.

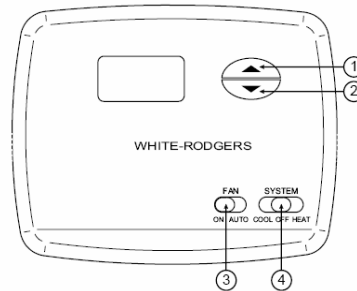
Attaching Thermostat Base to Wall

1. Disrupt power to HVAC equipment.
2. Remove the packing material from the thermostat. Gently pull the cover straight off the subbase. Forcing or prying on the thermostat will cause damage to the unit. Confirm that the ELECTRIC/GAS Switch is in the proper position.
3. Connect thermostat wires to proper terminals on the subbase (see Typical Wiring Diagrams).
4. Level and mount thermostat subbase to wall using anchors and mounting screws provided.
5. Snap cover back in place.
6. Reapply power to HVAC equipment.

1. THERMOSTAT DETAILS



3. CONTROL AND DISPLAY FUNCTIONS



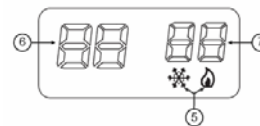
CONTROL FUNCTIONS

- 1 - UP ARROW – Raises temperature setting.
- 2 - DOWN ARROW – Lowers temperature setting.
- 3 - FAN SWITCH – ON, AUTO
- 4 - SYSTEM SWITCH – COOL, OFF, HEAT

2. MOUNTING AND WIRING

Electric Heat or Single Stage Heat Pump Systems

This thermostat is configured from the factory to operate a heat/cool, fossil fuel (gas, oil, etc.), forced air system. It is configured correctly for any system that DOES NOT require the thermostat to energize the fan on a call for heat. If your system is an electric furnace that



DISPLAY.

- 5 – MODE – Heating symbol displayed when SYSTEM SWITCH is set to HEAT. Cooling symbol displayed when SYSTEM SWITCH is set to COOL.
- 6 – SPACE TEMPERATURE

7 – SETPOINT

4. SPECIFICATIONS

ELECTRICAL DATA

Electrical Rating:

- 20 to 30 VAC 50/60 Hz.
- 0.05 to 1.2 Amps (Load per terminal)
- 1.5 Amps Maximum Total Load (All terminals combined)

THERMAL DATA

- Setpoint Temperature Range: 45° to 90° F (7° to 32° C)
- Limiters: Fixed Range 73° F (22.5° C)
- Operating Ambient Temperature: 32°F to 105° F
- Operating Humidity Range: 0 to 90% RH (non-condensing)
- Shipping Temperature Range: -40°F to 150°F

5. OPERATION

The Model LS-HC Limit-Stat™ operates like an ordinary manual changeover heating/cooling, digital thermostat. In normal operation, it allows full user control in selecting mode (HEAT/COOL) and fan (ON/AUTO) as well as adjustment of heating and cooling setpoints. However, when the thermostat is in the heating mode of operation, the built-in limiter will prevent the temperature from rising above 73° F when the setpoint is adjusted above the limit range. This unique feature greatly reduces energy costs.

TYPICAL WIRING DIAGRAM

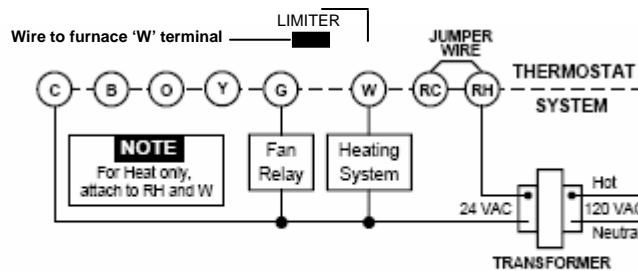


Figure 2. Typical wiring diagram for heat only, 4-wire, single transformer systems

NOTE:

RED jumper wire (provided with thermostat) must be connected between thermostat RH and RC terminals for proper thermostat operation with this system.

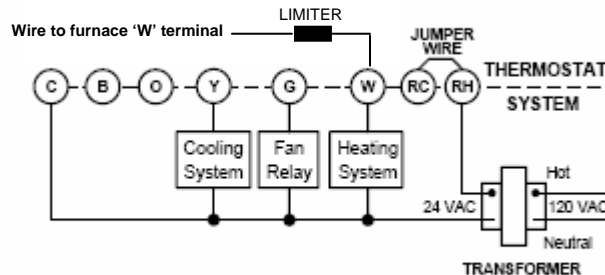


Figure 4. Typical wiring diagram for heat/cool, 5-wire, single transformer systems