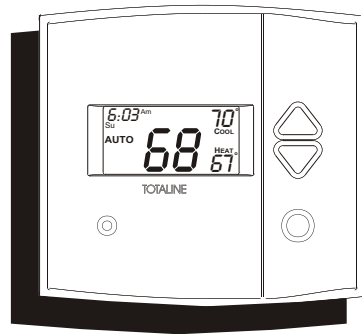


DIGITAL THERMOSTAT

MODEL P374-1500

Installation Instructions



3 HEAT - 2 COOL

**DUAL
FUEL**

**HEAT
PUMP**

MULTI-STAGE • PROGRAMMABLE

TOTALINE[®]

Replacement Components Division © Carrier Corporation 7/99

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CAUTION Follow *Installation Instructions* carefully.



DISCONNECT POWER TO THE HEATER -
AIR CONDITIONER BEFORE REMOVING
THE OLD THERMOSTAT AND INSTALLING
THE NEW THERMOSTAT.



WARNING

Replacement Components Division - Carrier Corporation

Model No. P374-1500

This device complies with Part 15 of the FCC rules.
Operation is subject to the following 2 conditions:
(1) This device may not cause harmful interference,
and (2) This device must accept any interference
received, including interference that may cause
undesired operation.

STEP #1

PREPARATION



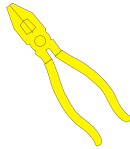
Proper installation of the thermostat will be accomplished by following these step by step instructions. If you are unsure about any of these steps, call a qualified technician for assistance.



Assemble tools as shown below.



*Flat Blade
Screwdriver*



*Wire cutter
& Stripper*



*Drill with 3/16
inch Drill Bit
(when not using
j-box)*



Make sure your Heater/Air Conditioner is working properly before beginning installation of the thermostat.



Carefully unpack the thermostat. Save the screws, wall anchors, and instructions.

STEP #2

REMOVE OLD THERMOSTAT



Turn off the power to the Heating/Air Conditioning system at the main fuse panel. Most residential systems have a separate breaker for disconnecting power to the furnace.



Remove the cover of the old thermostat. If it does not come off easily check for screws.



Loosen the screws holding the thermostat base or subbase to the wall, and lift away.



Disconnect the wires from the old thermostat. Tape the ends of the wires as you disconnect them, and mark them with the letter of the terminal for easy reconnection to the new thermostat.



Keep the old thermostat for reference purposes, until your new thermostat is functioning properly.

STEP #3**INSTALL BACKPLATE & WIRE**

Remove the backplate connector from the rear of the thermostat. Attach it to the wall. Install wires as directed below. When finished, snap thermostat on to backplate.

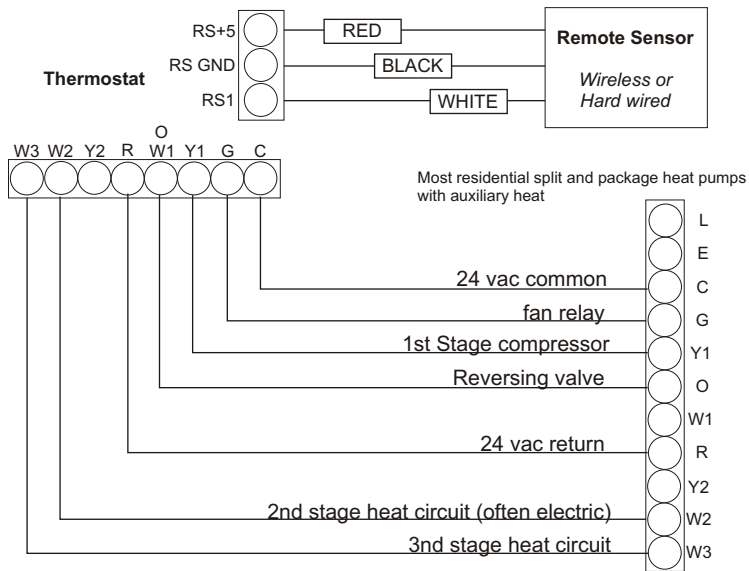


If the terminal designations on your old thermostat do not match those on the new thermostat, **refer to the chart below, or the wiring diagrams that follow.**

Wire from the old thermostat terminal marked	Function	Install on the new thermostat connector marked
G or F	Fan	G
Y1, Y or C	Compressor	Y1
Rh, R, M, Vr, A	Power	R
C	Common	C
O/B	Rev. Valve	W1,O,B
Y2	2nd Stage Comp.	Y2
W2	2nd Stage Heat	W2
W	3rd Stage Heat	W3
RS+5	Remote Sensor +5vdc	RS+5
RS	Remote Sensor Signal	RS
RS G	Remote Sensor Ground	RS G

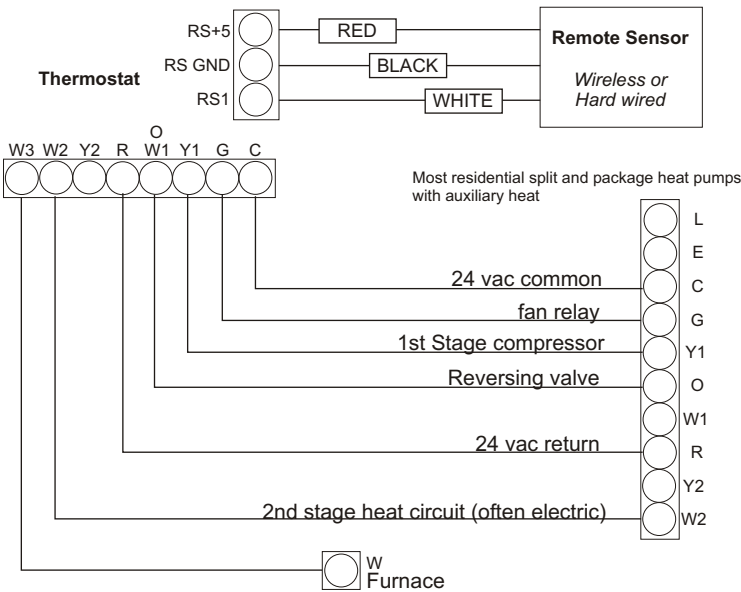
Sample Wiring Diagrams

7 Wire, 1 Stage Cooling, 3 Stage Heat, Heat Pump



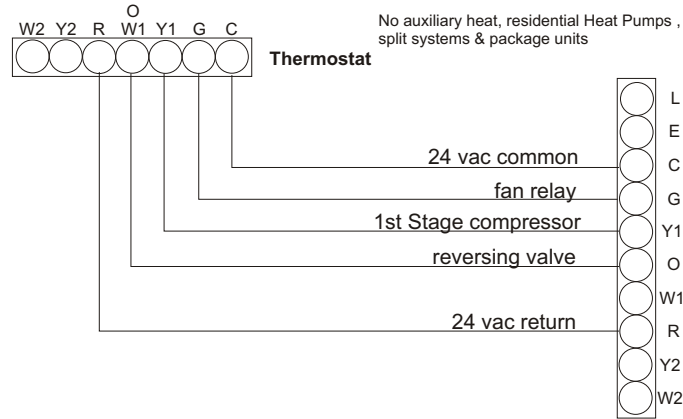
Sample Wiring Diagrams **Dual Fuel**

7 Wire, 1 Stage Cooling, 2 Stage Heat, Heat Pump with 2nd fuel source Furnace

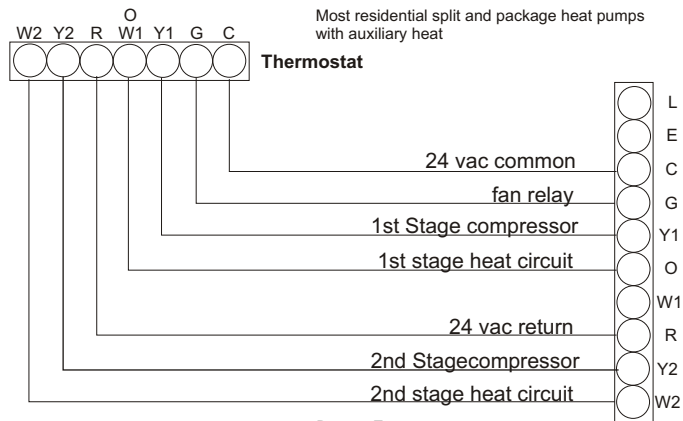


Sample Wiring Diagrams

5 Wire, 1 Stage Cooling, 1 Stage Heat - Heat Pump*



7 Wire, 2 Stage Cooling, 2 Stage Heat, Heat Pump



Calibration

Every thermostat is calibrated before it leaves the factory. Under normal circumstances there will never be a need to recalibrate the thermostat again.

To accommodate *special needs*, the thermostat may be recalibrated following these steps:

1. While holding the mode button in, press the down button for 2 seconds. After all the icons in the display appear, release the buttons.
2. Press the mode button.
3. Press the up or down buttons until the flashing number equals the current room temperature.
4. Press the mode button to return to normal operation.

STEP #4**TEST OPERATION**

Turn the power on to the Heating/Air Conditioning system.



Press the *MODE* button repeatedly until the **HEAT** icon appears on the display. Press the *up/down* buttons until the set temperature is 10 degrees above room temperature. The furnace should turn on.



Press the *MODE* button repeatedly until the **COOL** icon appears on the display. Press the *up/down* buttons until the set temperature is 10 degrees below room temperature. The air conditioner should turn on. **NOTE:** *Most equipment has a time delay of 5 minutes between cool cycles. This feature is defeatable on the thermostat. Consult the Owner's Manual under Setup, cycles per hour.*

TROUBLESHOOTING



SYMPTOM: The HVAC equipment does not attempt to turn on.

CAUSE: The compressor timer lockout may prevent the air conditioner from turning on, for a period of time.

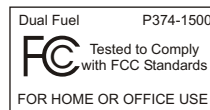
REMEDY: Consult the Owner's Manual in the Setup section to defeat the cycles per hour and compressor timeguard.



SYMPTOM: The display is blank.

CAUSE: Lack of proper power.

REMEDY: Make sure power is turned on to the furnace and 24vac between **R & W**. If **C** is used, 24vac between **R & C**.



P/N 88-119