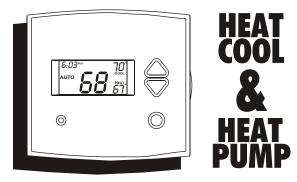
Installation Instructions

TSTATCCPS101 TSTATBBPS101 P374-1000

Digital Thermostat

NOTE: Read the entire instruciton manual before starting the installation.



MULTI-STAGE • SINGLE DAY PROGRAMMABLE

Form: IM-TSTAT-13 Cancels: Printed in U.S.A.

Catalog No. 13TS-TA39

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CAUTION Follow <u>Installation Instructions</u> carefully.



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



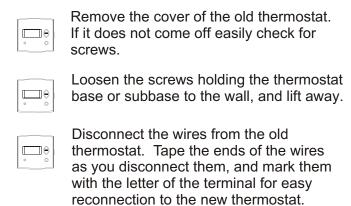
Replacement Component Division © Carrier Corporation 4/01

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.

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power to the furnace.

STEP #2 REMOVE & REPLACE OLD THERMOSTAT



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

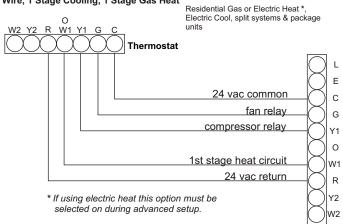


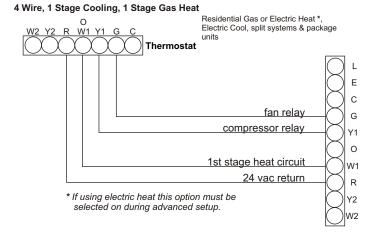
If the terminal designations on your old thermostat do not match those on the new thermostat, refer to the chart below, or the wiring diagrams that follow.

Wire from the old thermostat terminal marked	Function	Install on the new thermostat connector marked
G or F	Fan	G
Y1, Y or C	Cooling	Y1
W1, W or H	Heating	W1,O,B
Rh, R, M, Vr, A	Power	R
С	Common	C *
O/B	Rev. Valve	W1,O,B**
W2	2nd Stage Heat	W2
Y2	2nd Stage Cool	
RS+5	Remote Sensor +5vdc	
RS	Remote Sensor Signal	
RS G	Remote Sensor Ground	
CK1	Dry Contact Switch 1	
CK2	Dry Contact Switch 2	

^{*} C may not be used on all systems.
** O/B is used if your system is a Heat Pump.

Sample Wiring Diagrams 5 Wire, 1 Stage Cooling, 1 Stage Gas Heat

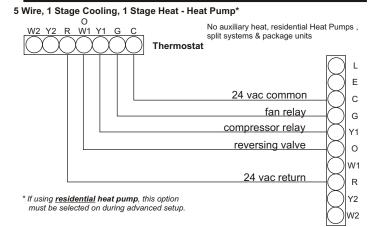




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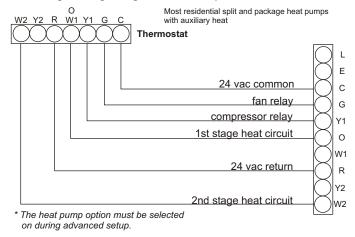
Sample Wiring Diagrams

6 Wire, 1 Stage Cooling, 2 Stage Heat O Residential & commercial 1 Stage Cooling, with 2 Stage Gas or Electric Heat* Thermostat L E 24 vac common fan relay compressor relay 1st stage heat circuit 24 vac return R Y2 2nd stage heat circuit W2



Sample Wiring Diagram

6 Wire, 1 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:

- While holding the mode button in, press the fan button for 5 seconds. After all the icons in the display appear, release the buttons.
- 2. Press the Up and Down buttons simultaneously, twice.
- 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.

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 or 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 or 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.



Press the *MODE* button to **OFF**. Press the *FAN* button to **Fan On**. The fan should turn on and run continuously.

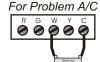
TROUBLESHOOTING

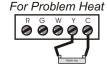


SYMPTOM: When using 4 wires (R, G, W, Y), the air conditioning equipment tries repeatedly to turn on, but cannot. At times the display dims or disappears.

CAUSE: There is not enough power available to "power share".

REMEDY: Connect a 270 ohm, 10 watt power resistor at the furnace as shown below.







SYMPTOM: The air conditioning does not attempt to turn on.

<u>CAUSE:</u> 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 that you have 24vac between R & W. If C is used, 24vac between R & C.

TROUBLESHOOTING



SYMPTOM: The air conditioning does not attempt to turn on.

CAUSE: The cooling setpoint is set too high.

REMEDY: Consult the Owner's Manual in the Setup section to lower the cooling setpoint limit.



SYMPTOM: The heating does not attempt to turn on.

CAUSE: The heating setpoint is set too low.

REMEDY: Consult the Owner's Manual in the Setup section to raise the heating setpoint limit.

TROUBLESHOOTING



SYMPTOM: When controlling a residential heat pump, and asking for cooling, the heat comes on.

<u>CAUSE:</u> Heat pump is not selected "on" in the Advanced Setup.

REMEDY: Select heat pump **on** during Advanced Setup programming. Consult the Owner's Manual.



SYMPTOM: When calling for cooling, both the heat and cool come on.

<u>CAUSE:</u> The Advanced Setup is configured to control a heat pump, and the hvac the thermostat is controlling is a "conventional" (non heat pump) system.

REMEDY: Consult the Owner's Manual in the Advanced Setup section to turn off the heat pump.





P/N 88-304