

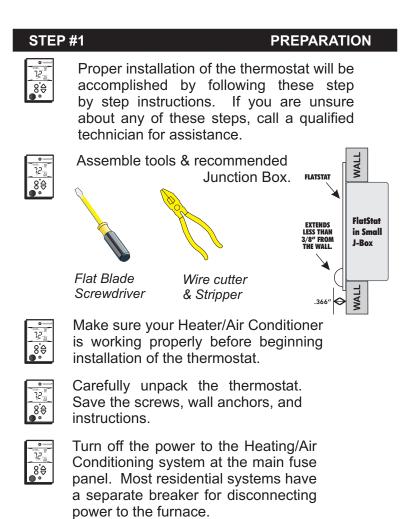
Table Of Contents

Step #	1: Preparation	2
	2: Remove & Replace Thermostat	3
Step #	3: Wire Connections	4
Step #	4: Test Operation	12
Troubl	13	
	Follow Installation Instructions carefully. DISCONNECT POWER TO THE HEATER - AIR CONDITIONER <u>BEFORE</u> REMOVING THE OLD THERMOSTAT AND INSTALLING THE NEW THERMOSTAT.	VARNING

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P/N T2300FS

This device complies with Part 15 of the FCC rules. Operation is subject to the following two 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 #2 REMOVE & REPLACE OLD THERMOSTAT



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.



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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.



Remove the white plastic wire connector from the rear of the thermostat. Install wires as directed. Press the wired connector on the back of the thermostat.

Lift Connector straight up — to remove.

For best operation, install the thermostat in a junction < box that is free from drafts that originate inside the wall.



STEP #3

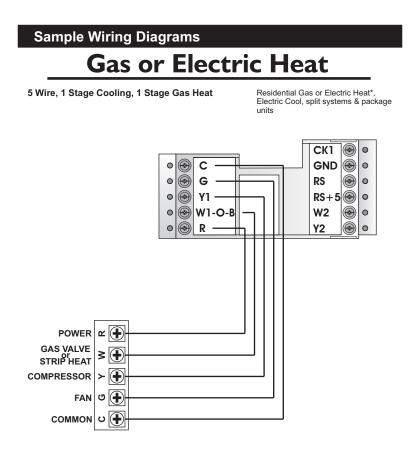
WIRE CONNECTIONS



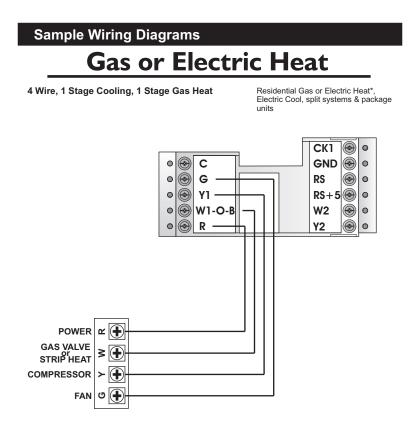
If the terminal designations on your old thermostat do not match those on the new thermostat, **refer to the chart below**, or the wiring diagrams that follow.

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**	
Y2	2nd Stage Cool	Y2	
W2	2nd Stage Heat	W2	
RS+5	Remote Sensor +5vdc	RS+5	
RS	Remote Sensor Signal	RS	
RS G	Remote Sensor Ground	GND	
CK1	Dry Contact Switch 1	CK1	
CK2	Dry Contact Switch 2	GND	

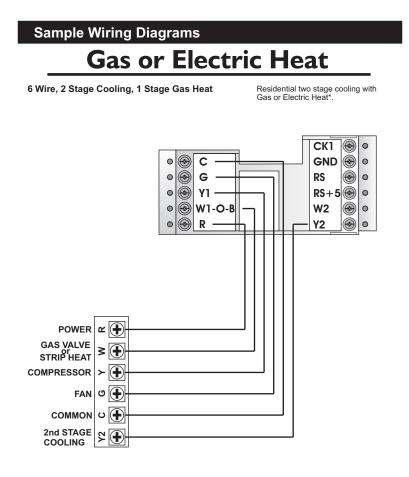
* C may not be used on all systems. ** O/B is used if your system is a Heat Pump.



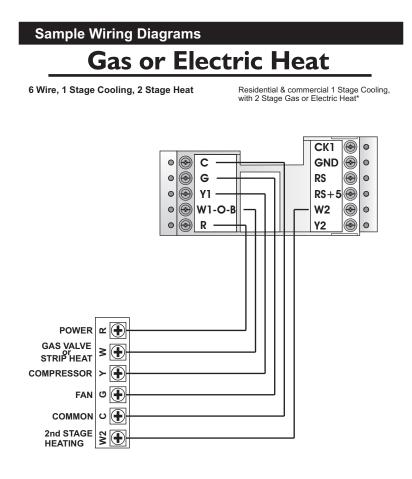
Page 5



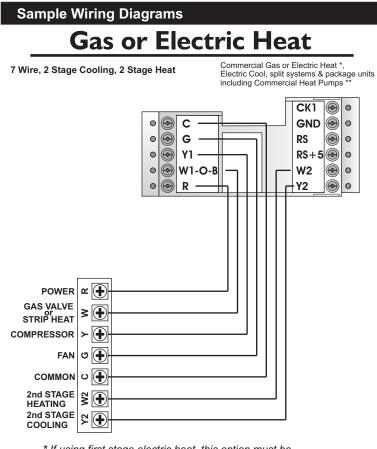
Page 6



Page 7



Page 8



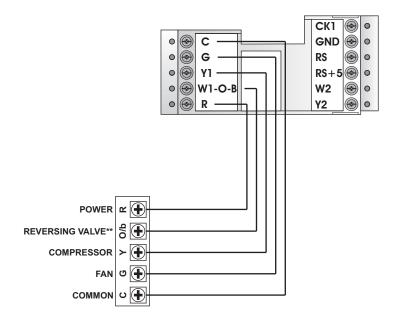
* If using first stage electric heat, this option must be

selected ON (see page 16, step 6 of Owner's Manual).
 ** <u>Commercial heat pumps do not</u> have the heat pump turned ON in advanced setup (see page 15, step 4 of Owner's Manual).

Sample Wiring Diagrams

Heat Pump

5 Wire, 1 Stage Cooling, 1 Stage Heat-Heat Pump* with O or b reversing valve**. Residential Heat Pumps, split systems & package units, with no auxiliary heat.



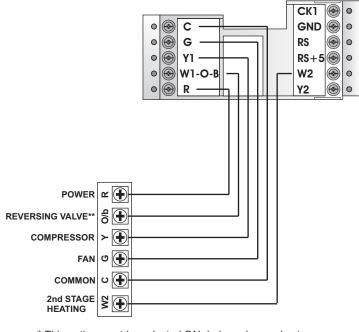
- * This option must be selected ON during advanced setup (see page 15, step 4 of Owner's Manual).
 ** This option must be selected O or b during advanced setup (see page 16, step 5 of Owner's Manual).

Page 10

Sample Wiring Diagrams

Heat Pump

6 Wire, 1 Stage Cooling, 2 Stage Heat-Heat Pump* with O or b reversing valve**. Residential Heat Pumps, split systems & package units, with auxiliary heat.



* This option must be selected ON during advanced setup (see page 15, step 4 of Owner's Manual).
** This option must be selected O or b during advanced setup

- (see page 16, step 5 of Owner's Manual).

Page 11

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 or DOWN buttons until the set temperature is 10 degrees above room temperature. The HVAC unit should energize in the heating mode.



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 HVAC unit should energize in the cooling mode.

NOTE: Most equipment has a time delay of 5 minutes between cool cycles. This feature is defeatable on the thermostat (see page 16, step 9 of Owner's Manual).



Press the UP button until the set temperature is equal to the room temperature; cooling should deenergize. Follow the instructions on page 15 of the Owner's Manual to turn the fan on in step 3. The fan should turn on and run continuously.

TROUBLESHOOTING



<u>SYMPTOM</u>: 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. **<u>CAUSE</u>**: There is not enough power available

to "power share". <u>REMEDY:</u> Connect a 250 ohm, 10 watt power

resistor <u>at the furnace</u> as shown below.





<u>SYMPTOM</u>: 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. **<u>REMEDY</u>:** See page 16 of the Owner's Manual and configure step 9 to defeat the 5minute compressor lockout.



<u>SYMPTOM:</u> The display is blank. <u>CAUSE:</u> Lack of proper power. <u>REMEDY:</u> Make sure power is turned on to

the furnace and 24vac between **R** & **W**. If **C** is used, 24vac between **R** & **C**.

TROUBLESHOOTING



<u>SYMPTOM</u>: 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.

<u>REMEDY</u>: See page 15 of the Owner's Manual and configure step 4 to enable heat pump operation.



<u>SYMPTOM</u>: When calling for cooling, both the heat and cool come on.

<u>CAUSE</u>: The thermostat is configured to control a heat pump and the HVAC system is a "conventional" (non-heat pump) system.

REMEDY: See page 15 of the Owner's Manual and set step 4 to OFF to enable gas electric operation.



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