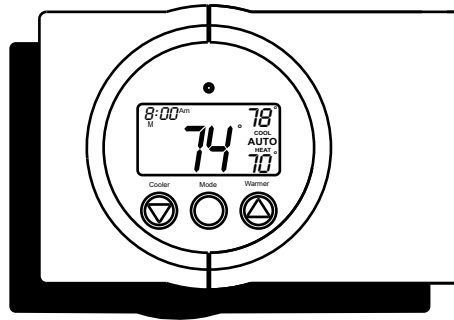


INSTALLATION MANUAL P/N TSTAT0713

1 For All™ Programmable Temperature & Humidity



**HEAT & HEAT
COOL & PUMP**
2 HEAT - 2 COOL

Meets Residential California Title 24

MULTI-STAGE • PROGRAMMABLE



Complete Control



Digital Thermostat

International Comfort Products ©2005

Table Of Contents

PREPARATION	2
REMOVE OLD THERMOSTAT	3
INSTALL BACKPLATE & WIRE	4
WIRING DIAGRAMS	5
CALIBRATION	13
TEST OPERATION	14
TROUBLESHOOTING	15

CAUTION Follow *Installation Instructions* carefully.



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



WARNING

International Comfort Products ©2005

P/N TSTAT0713

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



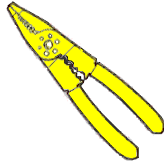
Proper installation of the TSTAT0713 will be accomplished by following these step by step instructions. If you are unsure about any of these steps, call a qualified technician for assistance.



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 TSTAT0713.



Carefully unpack the TSTA0713. 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 TSTAT0713 and attach it to the wall. Install wires as directed below. When finished, snap TSTAT0713 on to backplate.



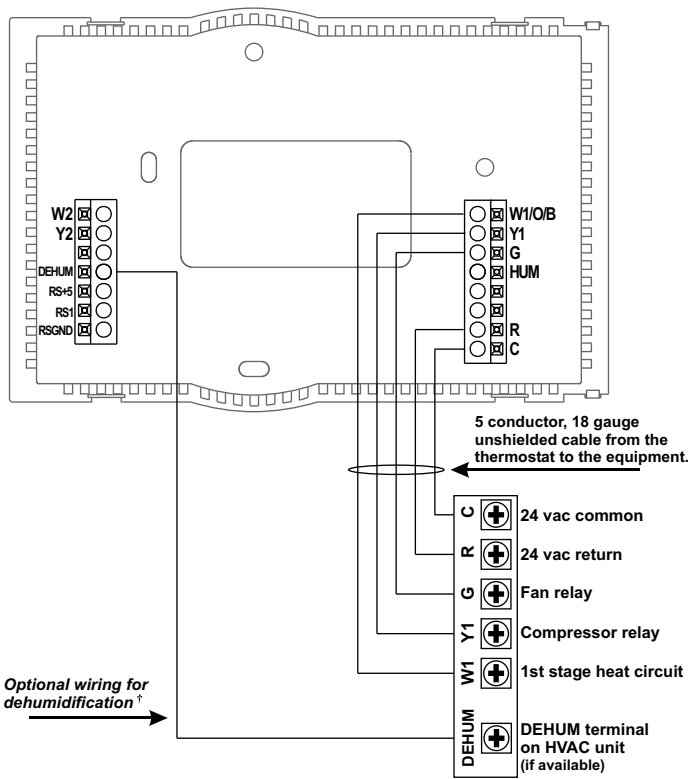
If the terminal designations on your old thermostat do not match those on the new TSTAT0713, **refer to the chart below, or the wiring diagrams that follow.**

Wire from the old thermostat terminal marked	Function	Install on the new TSTAT0713 terminal marked
G or F	Fan	G
Y1, Y or C	Cooling	Y1
W1, W or H	Heating	W1
Rh, R, M, Vr, A	Power	R
C*	Common	C
O/B	Rev. Valve	W1,O,B*
W2	2nd Stage Heat	W2
Y2	2nd Stage Cool	Y2
HUM	Humidifier Control	HUM
DEHUM	Dehumidifier Control	DEHUM
RS+5	Remote Sensor +5vdc	RS+5
RS1	Remote Sensor Signal	RS1
RSGND	Remote Sensor Ground	RSGND

* **O** or **b** is used if the system is a Heat Pump.

Sample Wiring Diagrams

5 Wire, 1 Stage Cooling, 1 Stage Heat
 Residential Gas or Electric Heat*,
 Electric Cool, split systems & package
 units

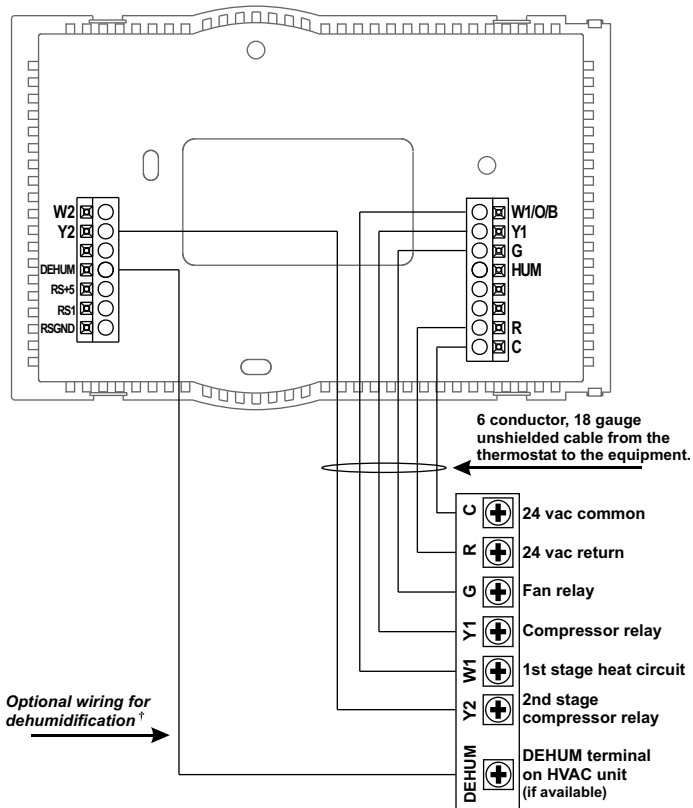


†Pages 8, 19-20, and 24 of Owner's Manual

* If using electric heat this, option must be set to ON during Advanced Setup.

Sample Wiring Diagrams

6 Wire, 2 Stage Cooling, 1 Stage Heat
 Residential 2 Stage Cooling with
 Gas or Electric Heat*

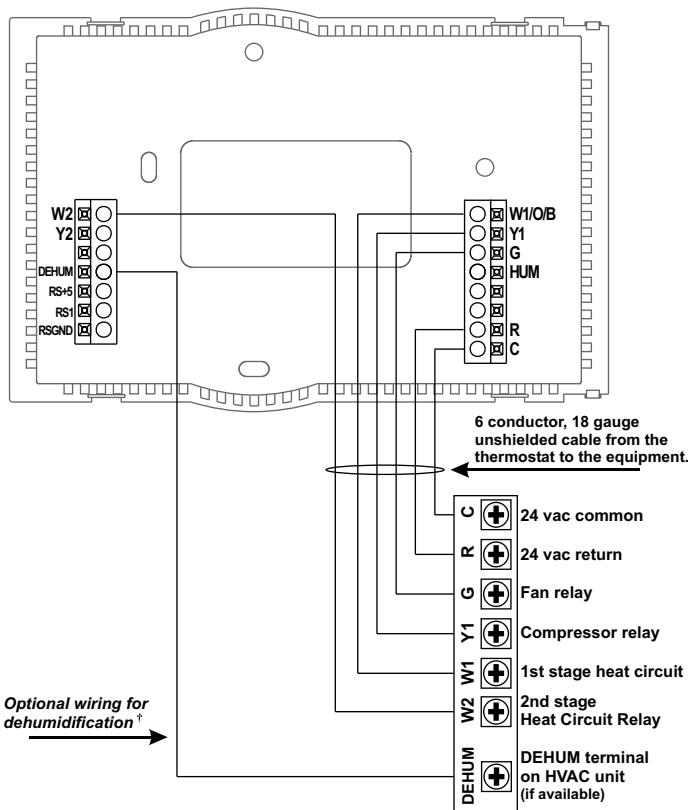


†Pages 8, 19-20, and 24 of Owner's Manual

* If using electric heat this, option must be set to ON during Advanced Setup.

Sample Wiring Diagrams

6 Wire, 1 Stage Cooling, 2 Stage Heat
 Residential & Commercial 1 Stage Cooling
 with 2 Stage Gas or Electric Heat*



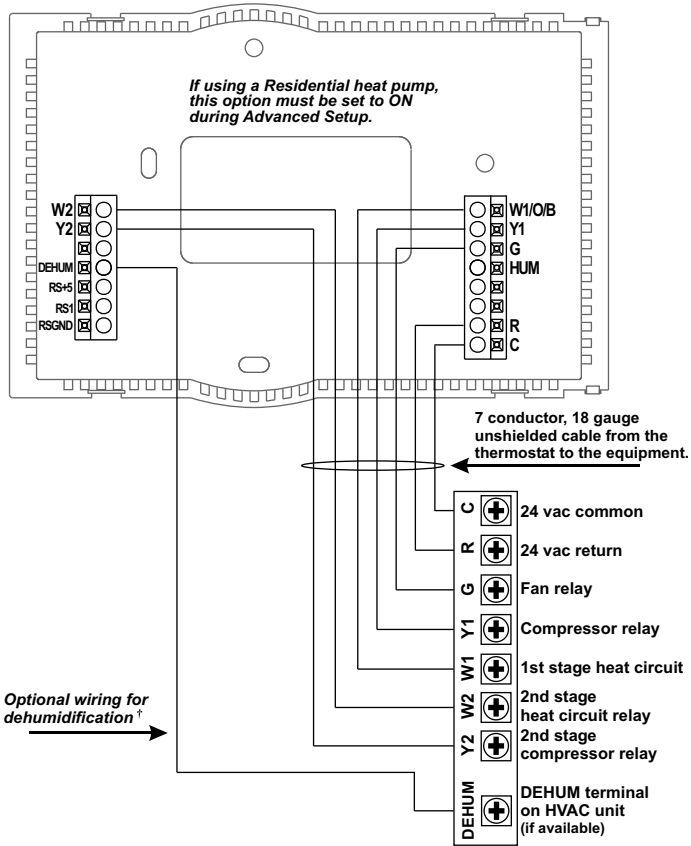
†Pages 8, 19-20, and 24 of Owner's Manual

* If using electric heat this, option must be set to ON during Advanced Setup.

Sample Wiring Diagrams

7 Wire, 2 Stage Cooling, 2 Stage Heat

Commercial Gas or Electric Heat *,
 Electric Cool, split systems & package units,
 including Commercial Heat Pumps **



† Pages 8, 19-20, and 24 of Owner's Manual

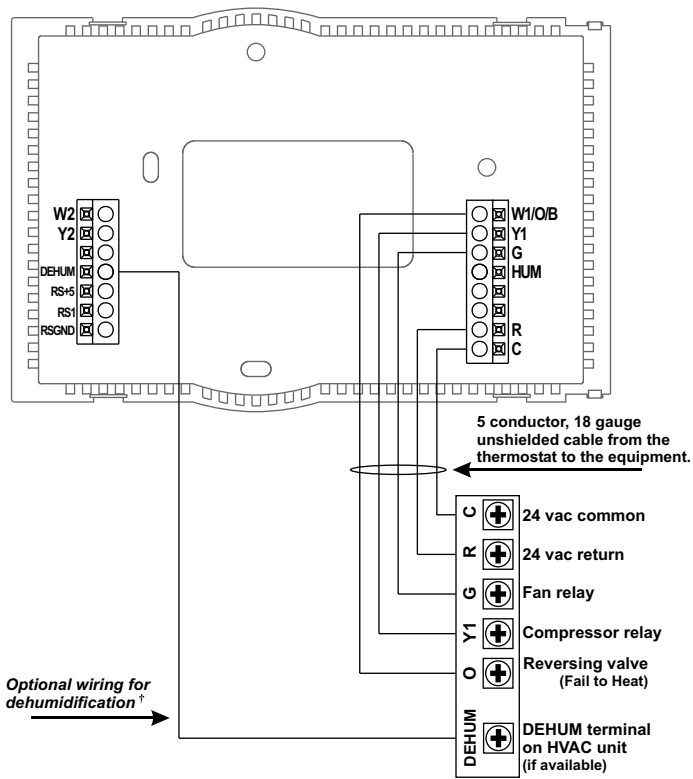
* If using electric heat this option must be set to ON during Advanced Setup.

** Commercial heat pumps do not have the heat pump turned on in Advanced Setup.

Sample Wiring Diagrams

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

Residential Heat Pumps*, split systems & package units.
No auxiliary heat.



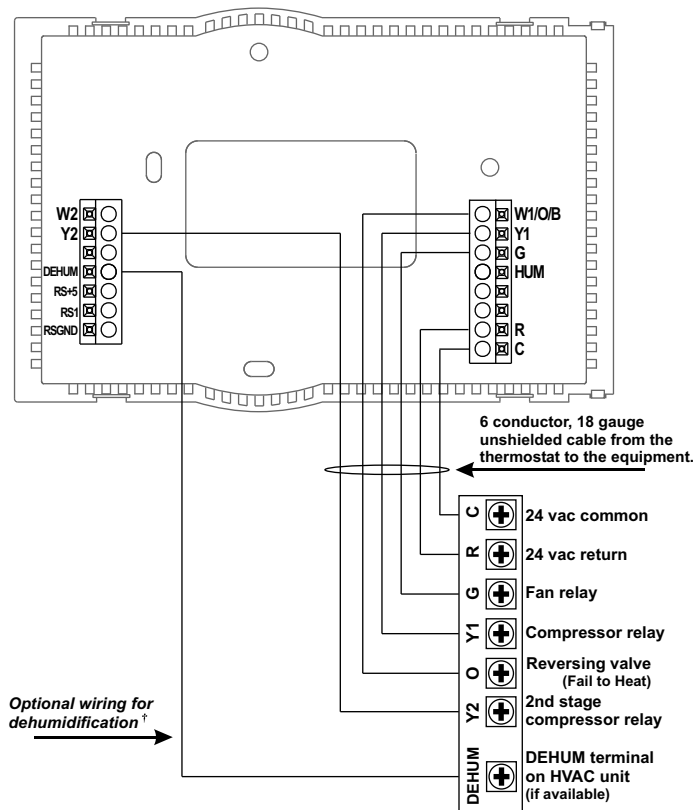
†Pages 8, 19-20, and 24 of Owner's Manual

* If using a Residential heat pump, this option must be set to on during Advanced Setup.

Sample Wiring Diagrams

6 Wire, 2 Stage Cooling, 1 Stage Heat - Heat Pump*

Residential Heat Pumps*, split systems & package units.
No auxiliary heat.



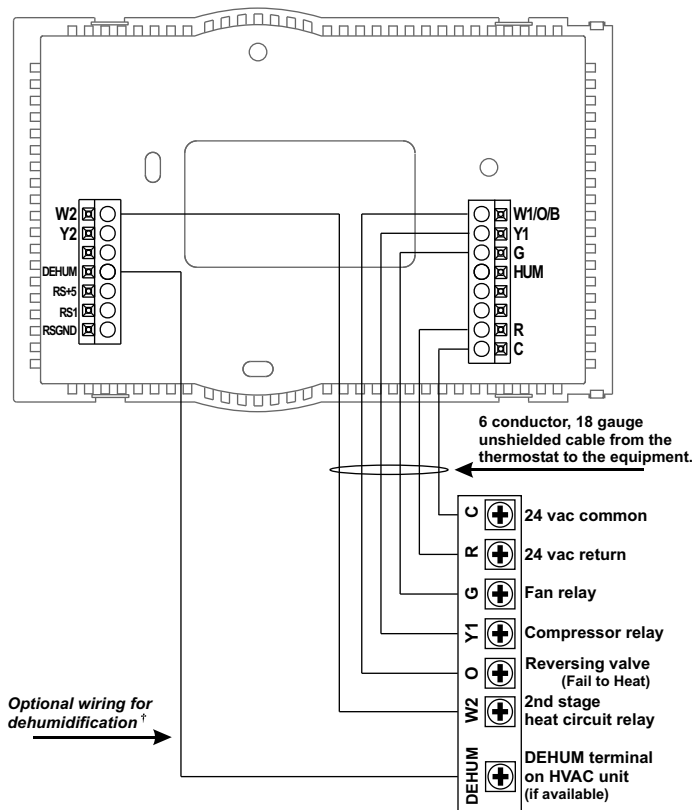
†Pages 8, 19-20, and 24 of Owner's Manual

* If using a Residential heat pump, this option must be set to on during Advanced Setup.

Sample Wiring Diagrams

6 Wire, 1 Stage Cooling, 2 Stage Heat - Heat Pump*

Most residential split and package heat pumps with auxiliary heat



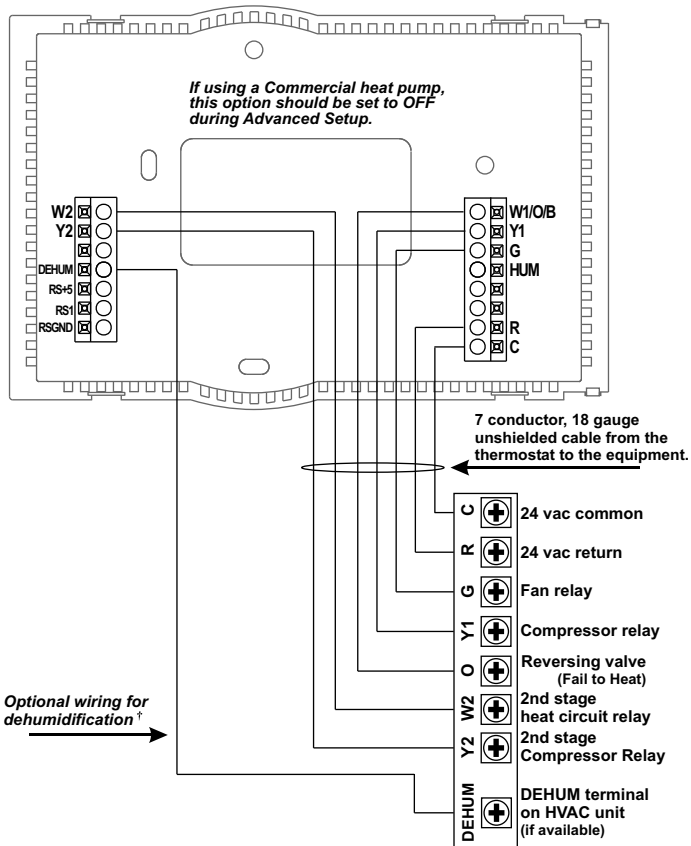
[†]Pages 8, 19-20, and 24 of Owner's Manual

** If using a Residential heat pump, this option must be set to on during Advanced Setup.*

Sample Wiring Diagrams

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

Most residential split and package Heat Pumps with auxiliary Heat.



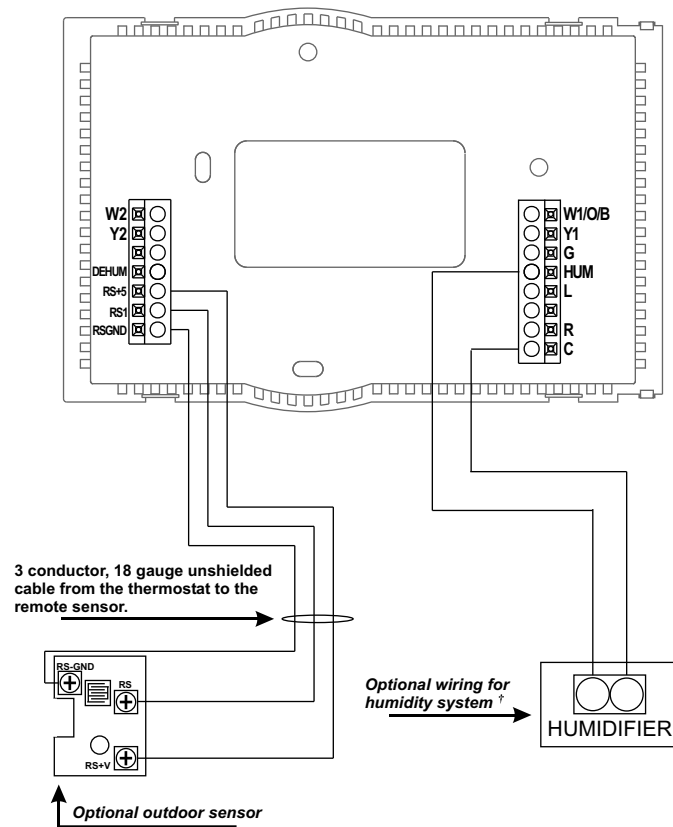
†Pages 8, 19-20, and 24 of Owner's Manual

** If using a Residential heat pump, this option must be selected ON during Advanced Setup.*

Sample Wiring Diagrams

Accessory Wiring - All Units

Installation of outdoor temperature sensor, and humidification system.



Calibration



Every TSTAT0713 is calibrated before it leaves the factory. Under normal circumstances there will never be a need to recalibrate the TSTAT0713 again.

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

1. While pressing the MODE button, press the FAN button for 5 seconds. After all the icons in the display appear, release the buttons.
2. Press the UP & DOWN buttons at the same time; the display will change.
3. Press the UP & DOWN buttons at the same time again; the current room temperature will be displayed.
4. Use an accurate thermometer to measure room temperature. Press the UP or DOWN buttons until the displayed temperature equals the room temperature.
5. Press the MODE button; the current humidity will be displayed.
6. Use an accurate hygrometer to measure room humidity. Press the UP or DOWN buttons until the displayed humidity equals the room humidity.
7. 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 **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 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 heating unit should turn on.

TROUBLESHOOTING



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

CAUSE: The 5-minute compressor lockout may prevent the air conditioner from turning on, for a period of time.

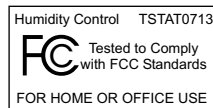
REMEDY: Consult the Owner's Manual in the Setup section to defeat the cycles per hour and compressor timeguard.



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 88-441
Rev. 3