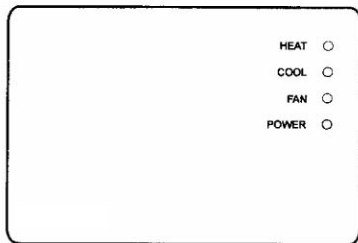


# Installation Instructions

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- Wireless Operation
  - Controls Up To 4 Thermostats
  - Flexible Installation location
  - 1 Stage Heat Pump Option
- 

*Single Stage  
Heat & Cool  
or  
Heat Pump*



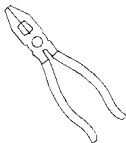
Proper installation of the T-100REC will be accomplished by following these step by step instructions. If you are unsure about any of these steps, call a qualified technician for assistance.



Assemble tools as shown below.



*Flat Blade  
Screwdriver*



*Wire cutter  
& Stripper*



*Drill with  
3/16 inch  
Drill Bit*



Make sure your Heater/Air Conditioner is working properly before beginning installation of the T-100REC.



Carefully unpack the T-100REC. Save the screws, wall anchors, and instructions.



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 T-100REC.



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

## STEP #3

## MOUNT WALL PLATE AND WIRE



Mount the wall plate with the 2 screws supplied. Use the supplied wall anchors if mounting on drywall. A 3/16" hole will have to be drilled for the wall anchors.



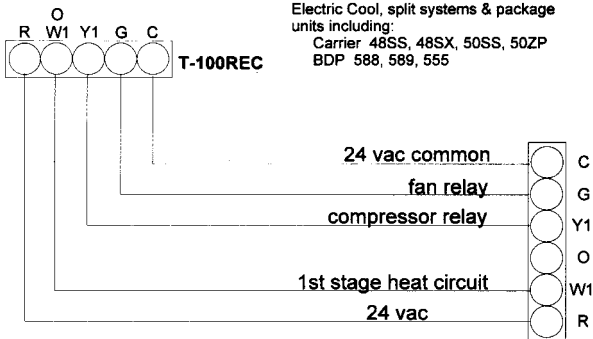
If the terminal designations on your old thermostat do not match those on the new thermostat, **refer to the chart below.**

Wire from the old thermostat terminal marked	Function	Install on the new thermostat terminal marked
G or F	Fan	G
Y or C	Cooling	Y
W or H	Heating	W/O
Rh, R, M, Vr, A	Power	R
C	Common	C *
O	Rev. Valve	W/O**

\* C is used if your system is a 5 wire system, (G,Y,W,R,C).

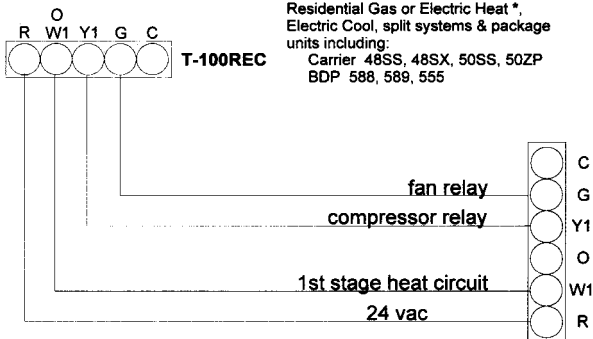
\*\* O is used if your system is a single stage Heat Pump.

## 5 Wire, 1 Stage Cooling, 1 Stage Gas Heat



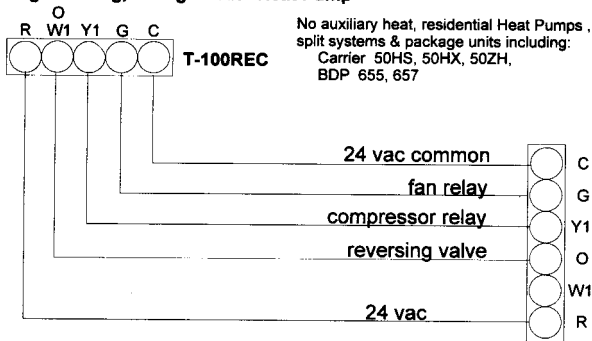
*\* If using electric heat this option must be selected on during 'Set Switches'.*

## 4 Wire, 1 Stage Cooling, 1 Stage Gas Heat



*\* If using electric heat this option must be selected on during 'Set Switches'.*

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



\* If using **residential heat pump**, this option must be selected on during 'Set Switches'.

## Calibration

## T-100RC (Thermostat)

Every T-100RC thermostat is calibrated before it leaves the factory. Under normal circumstances there will never be a need to recalibrate the thermostat again.

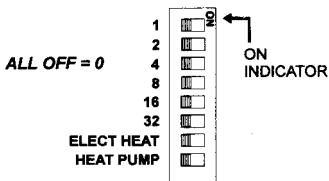
To accommodate *special needs*, the T-100RC may be recalibrated following these steps:

1. While holding the mode button in, press the up and down buttons and then release the mode button before releasing the up and down buttons. After release of the buttons the large numbers will flash.
2. Press the up or down buttons until the flashing number equals the current room temperature.
3. Press the mode button in and hold, while holding the mode button press the up and down buttons together, then release the mode button before releasing the up and down buttons to return to normal operation.

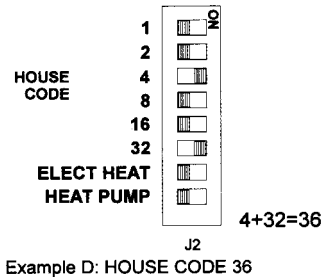
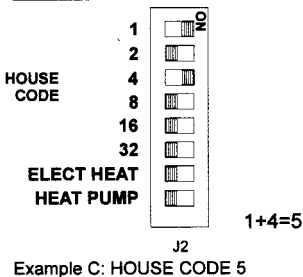
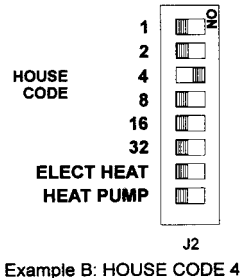
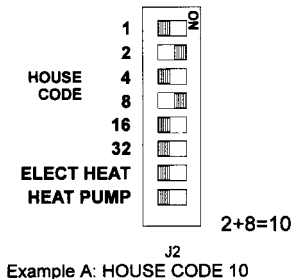
# STEP #4

# SET SWITCHES

- Add all **on** switches to arrive at **HOUSE CODE** number. *All Thermostats communicating with this receiver **must** have the same house code number.*

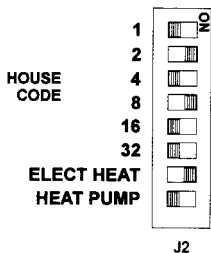


**Note:** The T-100REC is factory preset to House Code 0.

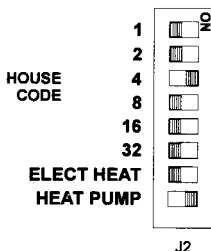


- **Electric Heat** turns the Fan on instantly when the thermostat calls for Heat.
- **Heat Pump** allows the use of this thermostat system with Single Stage heat pump equipment.

*Note: Heat Pump operation requires 5 wires (R, C, G, O, Y).*

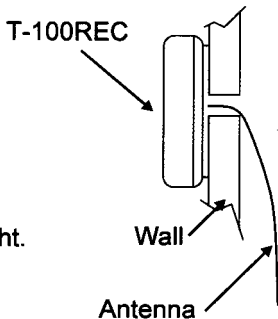


Example A: HOUSE CODE 10  
with Electric Heat



Example B: HOUSE CODE 4  
with Heat Pump

The antenna of the T-100REC should be fully extended. If mounting the T-100REC on the wall, it is recommended to extend the antenna inside the wall as illustrated at the right.

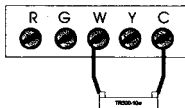




**SYMPTOM:** When using 4 wires (R, G, W, Y), the air conditioning equipment tries repeatedly to turn on, but cannot.

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

**REMEDY:** Connect a 270 ohm, 10 watt power resistor, or Venstar part #YAGEO-DGK at the furnace as shown below.



**SYMPTOM:** The air conditioning 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 power LED indicator off.

**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.

## TROUBLESHOOTING



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

**CAUSE:** Heat pump is not selected "on" in the 'Set Switches'.

**REMEDY:** Select heat pump "on" using 'Set Switches'.



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

**CAUSE:** The 'Set Switches' are configured to control a heat pump, and the hvac the thermostat is controlling is a "conventional" (non heat pump) system.

**REMEDY:** Consult the 'Set Switches' section of the manual to turn off the heat pump.

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