## **FAST-STAT 3000**



#### **Product Description**

The **FAST-STAT Model 3000** provides 4-wire control over 2-wire cable or 6-wire control over a 4-wire cable. With a 2-wire cable it can provide "R", "W", "G" & "Y". With a 4-wire cable it can provide "R", "W", "Y", "G" + any two of "C", "D", "W2", "Y2" or "O/B".

#### Common Uses

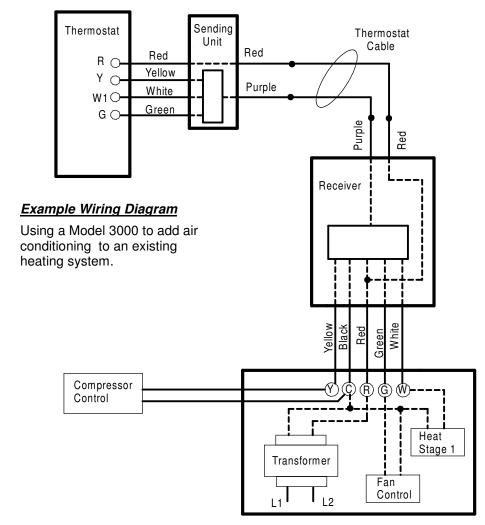
Adding air conditioning to a heating system. Can also be used for heat pumps, 2-stage heating or cooling when an existing 4-wire thermostat cable is present.

#### **Ratings**

Power Input: 20 – 30 volts AC.

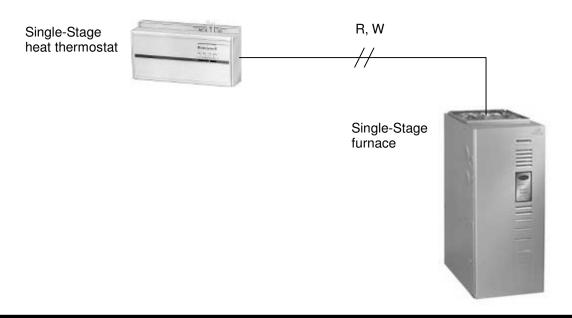
Contacts: 3 Normally Open

Contact Rating: 2 Amps, 24 volt AC

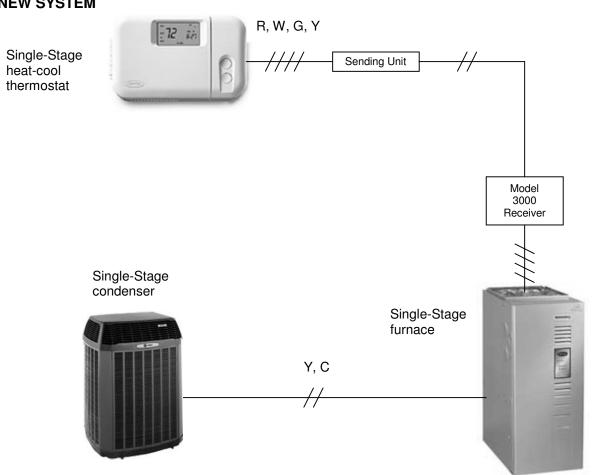


Furnace Wiring

### **OLD SYSTEM**



#### **NEW SYSTEM**



## **FAST-STAT**

## Model 3000 Installation Overview

## **Application**

- 1. The model 3000 FAST-STAT is a multipurpose controller designed to reduce installation time when adding or retrofitting HVAC equipment.
- 2. With a 2-wire thermostat cable it can provide R, W, Y & G. With a 4-wire thermostat cable it can be used for a wide range of applications including heat pumps.

## Before installing this product

- 1. Read instructions. If you have any questions please contact tech support line at the number listed below.
- 2. This product is designed for use only on 24 volt ac circuits supplied by a class 2 transformer.
- 3. This product is only to be installed by qualified technicians.
- 4. To avoid risk of electrical shock or equipment damage disconnect power before beginning installation.

### **Operational Considerations**

- 1. A call for Compressor (Y) will always switch on Fan (G). The white channel (W) is independent of the Yellow and Green channels. This information is provided for reference when using the model 3000 in other applications such as heat pumps.
- 2. The power supply must be between 20 to 30 volts for correct operation. The total connected load must not exceed 2 amps.

Table 1. Terminal designation descriptions

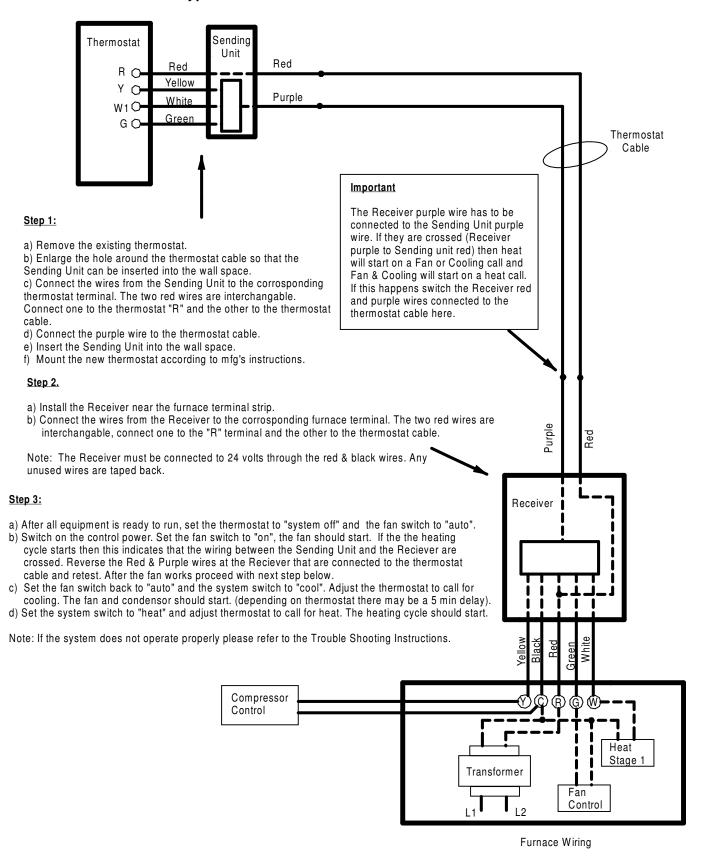
Terminal Designation	Description	Comment	Color
R	Transformer Power	Included & must be connected	Red
С	Transformer Common	Included & must be connected at Receiver	Black
Y - Y1	Compressor Stage 1	Included	Yellow
Y2	Compressor Stage 2	Requires additional thermostat cable conductor	Not defined
G	Fan	Included	Green
W1	1st Stage Heat	Included	White
W2	2nd Stage Heat	Requires additional thermostat cable conductor	Not Defined
O/B	Reversing Valve	Requires additional thermostat cable conductor	Not Defined

Tech Support: 1-800-775-4750

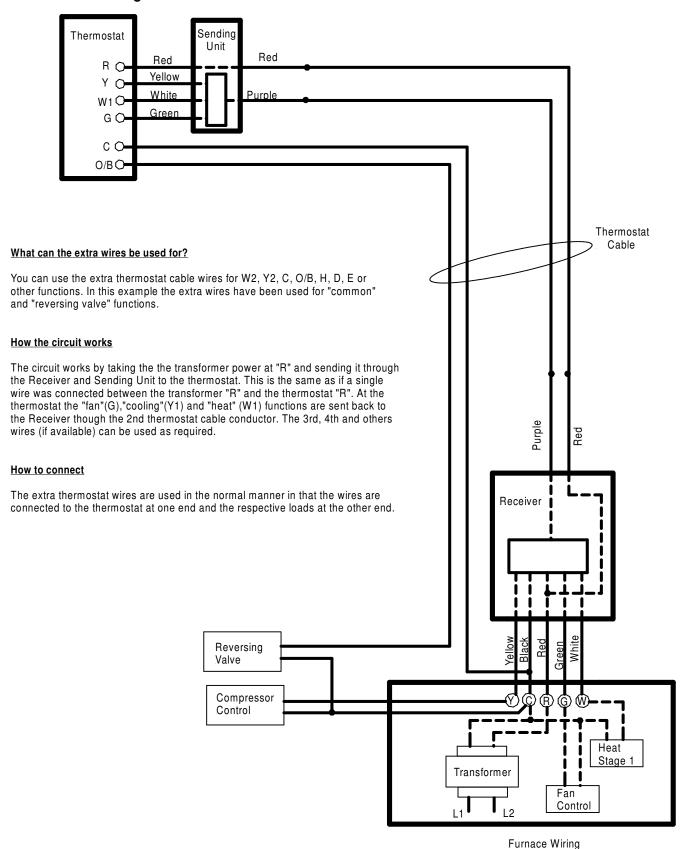
# **FAST-STAT**

## Installation Guide A

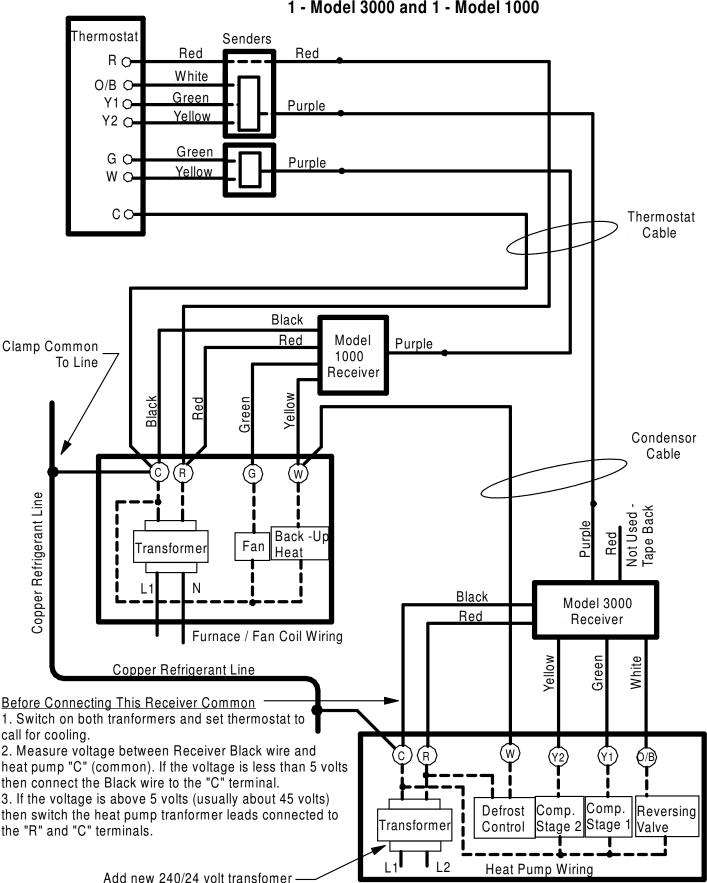
#### Model 3000 Typical Installation when used with 2-wire thermostat cable.

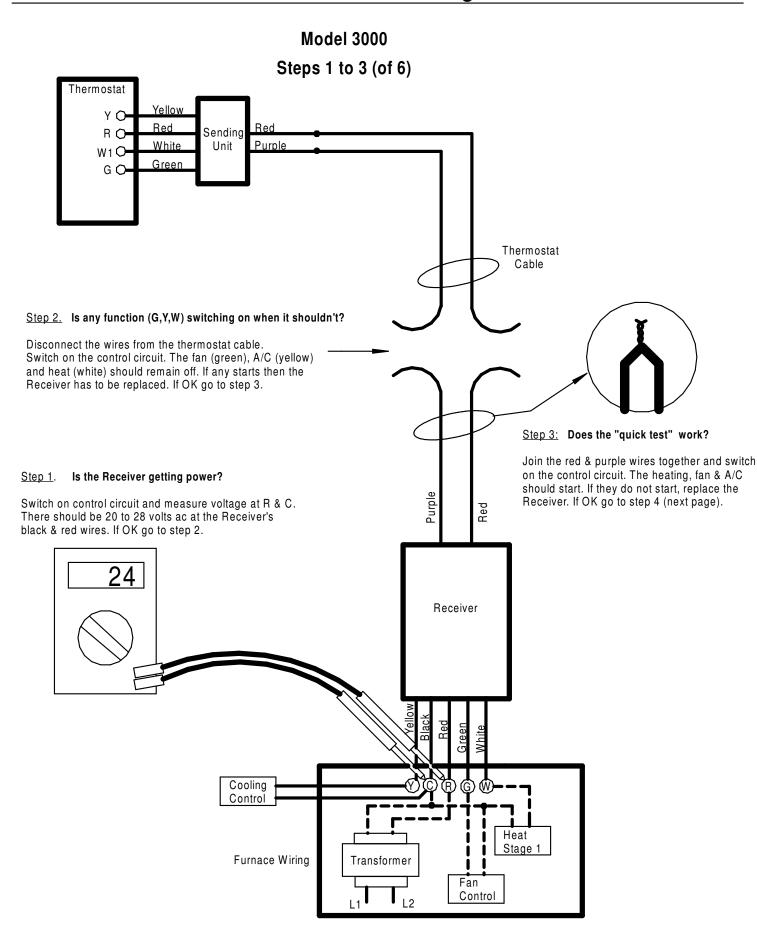


#### Using a Model 3000 with a thermostat cable that has more than 2 conductors.

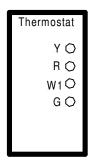


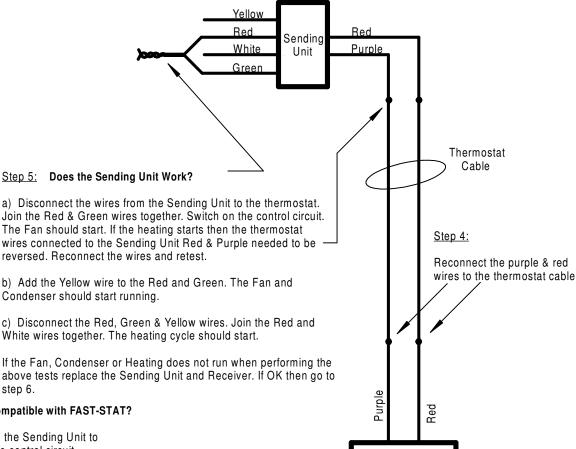
# Single or 2-Stage Heat Pump using 1 - Model 3000 and 1 - Model 1000





### Steps 4 to 6 (of 6)





step 6.

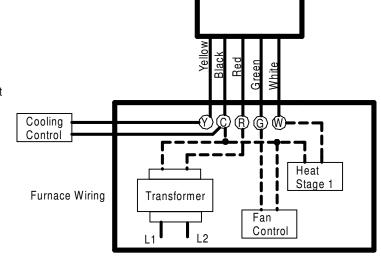
<u>Step 6:</u> Is the thermostat compatible with FAST-STAT?

a) Reconnect the wires from the Sending Unit to the thermostat. Switch on the control circuit. Set the Fan switch to "on" and the system switch to "off". The Fan should start.

- b) Set the Fan switch to auto and the system switch to "cool". Adjust the temperature to call for cooling. The Fan and Condenser should start running (there may be a 5 min time delay on a cooling call)
- c) Switch the system switch to "heat" and adjust the thermostat to call for heat. The heating cycle should start.

If the Fan, Cooling or Heat does not run when performing the above tests then the thermostat is not compatable with FAST-STAT. You will need to use a different thermostat. If you encounter this problem please call our tech support line:

1-800-775-4750



Receiver