

## THIS PROCEDURE MUST BE PERFORMED BY A QUALIFIED TECHNICIAN

The telephone transponder is an electronic device that provides home and away (room temperature set back) signals to the 1000, 2000, and 2100 series room heaters from a remote site through the use of a touch-tone telephone. The telephone transponder can also be used with the 3100, 4100, and 5100 series Comfort Plus systems if used in conjunction with an Aube thermostat. The transponder sends a home or away signal to the Steffes heating system(s) either by power line carrier communication, direct wiring it to the heater (room units), or direct wiring it to the Aube thermostat (Comfort Plus).

**NOTE:** When home or away (room temperature set back) is utilized, a recovery time is needed to bring the room up to the desired temperature. In some instances, it may require multiple off-peak (charging) cycles; therefore, it is important to allow ample time after an away (set back) signal for the heating system(s) to recover.

## INSTALLATION OF THE TELEPHONE TRANSPONDER

1. Mount and install the telephone transponder in the desired location per the manufacturer's instructions.
2. Connect a 2-conductor low voltage cable to the one (1) and two (2) terminals on the bottom of the transponder and route it to the desired transceiver, transmitter, CCRP, thermostat, or heater.

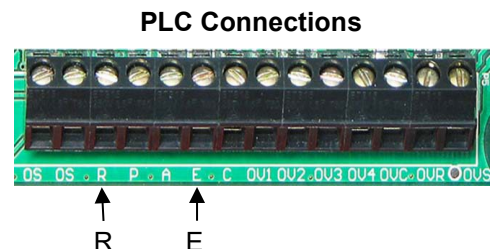
**NOTE:** Standard Class 2 (thermostat) wire can be used provided it does NOT enter the line voltage compartment of the transceiver, transmitter, CCRP, or heater.

## CONNECTION TO PLC TRANSMITTING DEVICE

1. Disconnect power to the PLC device and remove the front cover.
2. Route the 2-conductor low voltage cable from the transponder into the PLC transmitter or CCRP through one of its wire knockouts. All low voltage wiring in these devices must be routed through and contained in the low voltage raceway.

**NOTE:** NEVER install any wiring in the line voltage electrical compartment unless for line voltage.

3. Locate the low voltage terminal strip on the control board of the PLC transmitter or CCRP. Connect one conductor to the "E" (room temperature set back) position and the other to the "R" (low voltage hot) position on the strip.
4. Install the front cover and restore power.



## CONNECTION TO COMFORT PLUS HEATING SYSTEM

Connect as per the instructions included with your Aube thermostat and the telephone transponder.

## CONNECTION TO 2100 SERIES ROOM HEATING SYSTEM

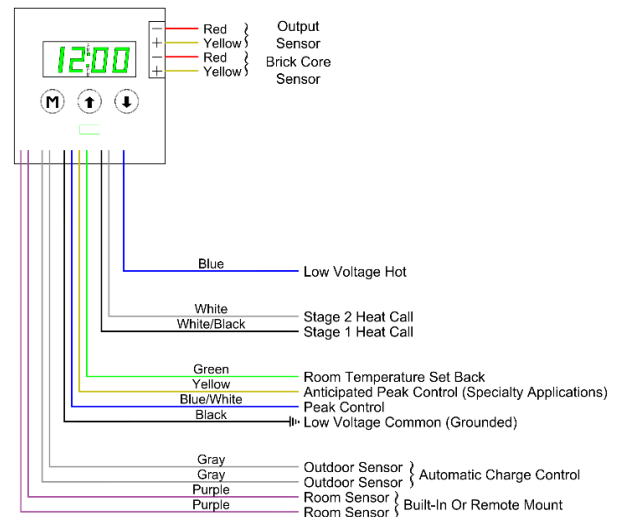
1. Disconnect power to all branch circuits of the heater.
2. On the lower back side the heater's electrical compartment, locate and remove the low voltage junction box cover to gain access to the low voltage wiring harness.

3. Locate the green wire (room temperature set back connection) and the blue wire (low voltage hot connection) in this harness and connect one conductor from the transponder to each of these wires.
4. Reassemble the heater and restore power.
5. Set the heater to respond to an away (set back) signal by adjusting the value in Location 1 (L001)/ Configuration 12 (C012) to the desired room temperature set point to be used during an away (set back) signal. When the heater receives a home signal (set forward), it reverts back to maintaining the set point temperature.

#### **MULTIPLE HEATER CONNECTIONS:**

If you are connecting to more than one heater, parallel connect the room temperature set back and low voltage common wires in the low voltage wiring harness from one heater to the next. The low voltage hot wire in all subsequent heaters is not used. A maximum of two (2) heaters can be parallel connected. See the Typical Control Wiring Diagrams in the Owner's and Installer's Manual for the corresponding heater for more information on how to make multiple heater connections.

#### **2100 Series Low Voltage Wiring Diagram**



### **CONNECTION TO 2000 SERIES ROOM HEATING SYSTEM**

1. Disconnect power to all branch circuits of the heater.
2. Connect the wires to the heater as follows:
  - a. On the lower back side the heater's electrical compartment, locate and remove the low voltage junction box cover to gain access to the low voltage wiring harness.
  - b. Locate the orange wire (room temperature set back) and the blue wire (low voltage power) in this harness and connect one conductor from the transponder to each of these wires.
3. Reassemble the heater and restore power.
4. Set the heater to respond to an away (set back) signal by adjusting the value in Location 6 (L06) to the desired number of degrees Fahrenheit that room temperature set point is to be reduced upon receiving an away (set back) signal. The number of degrees each heater is to set back can be set independently.
  - The temperature which the heater is to set back to is based upon the current room temperature setting. For example, if the heater is set to maintain 70 degrees and a value of 10 is set in L06, then the heater maintains a 60 degree room temperature during an away (set back) time. When the heater receives a home signal, it reverts back to maintaining the set point temperature of 70 degrees.
  - Refer to the Owner's Manual for the heater for instructions on how to change heater settings. The heater is factory preset with zero (0) degrees of set back.

