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## Technical Bulletin

MODEL

Pellet

### Adding a programmable set back thermostat for all Harman Pellet Stoves

#### Thermostat must be:

- 1) Millivolt compatible
- 2) Gold Contacts
- 3) Low Voltage
- 4) Low current

#### Recommended Honeywell Thermostats.

RTH230B

RTH6300B

These thermostats are available at hardware stores and home improvement retailers.

**Note:** If there is a jumper between Rh and Rc it must be removed from the thermostat's terminal block. Use minimum 2- conductor 24 gauge twisted pair wire to connect the thermostat.

Connect the thermostat in series with the room sensing probe using the Rh and W terminals on the thermostat. (See Fig. 1) The set back thermostat **must** be used in conjunction with the room sensing probe (except the P38).

#### Thermostat Settings:

##### Occupied Mode:

In occupied mode program the thermostat to its maximum temperature setting. (i.e. 82 Deg. F) The stove's room sensing probe will control the room temperature. Set the stove's temperature dial to the desired room temperature. (i.e. 72 Deg. F)

##### Unoccupied mode:

In unoccupied mode program the thermostat to the desired set back temperature. (i.e. 60 Deg. F) When the thermostat opens (is satisfied) the stove will go into a 4-blink status. If the stove is an auto ignite stove and the auto-manual switch is in auto mode the stove will shut down. When the thermostat closes (calls for heat) the 4-blink status will automatically reset and the stove will ignite.

If the stove is a manual ignite stove or an auto ignite stove with the auto-manual switch in manual mode, the stove will go into a 4-blink status when the thermostat opens (is satisfied) and the stove will go to a minimum burn and stay there until the thermostat closes (calls for heat). When the thermostat closes (calls for heat) the 4-blink status will reset automatically.

**Note:** A 4-Blink status is described in the owner's manual. The status light on the stove will blink 4 times, pause, and blink 4 times continually. This error code is the board recognizing that the room sensing probe is not connected or has failed. Breaking one leg of the room sensing probe wiring with the thermostat, as we are doing here, causes the 4-blink status. This error automatically resets when the board recognizes the room sensing probe has been reconnected.

