

THERMOSTAT

A 250-500 millivolt thermostat is required. A fixed wall mount or Breckwell's hand held model can be used. The control panel can be set up two ways to operate the stove in thermostat mode.

1. MANUAL

- When not using a thermostat make sure the shunt is over just one pin at J9, (C-E-100, C-E-300 & C-E-400) or off altogether, and that the thermostat jumper wire is securely in place in the terminal block. The circuit board will not operate properly otherwise in this mode.
- Manual position in C-E -101 & C-E-401

2. HIGH/LOW THERMOSTAT MODE

- When engaged in this mode the stove will automatically switch between two settings. When warm enough, it will switch to the #1 or low setting. The room air blower will also slow to its lowest speed.
- The Heat Level Advance setting on the bar graph will stay where it was initially set. When the house then cools below the thermostat setting, the stove will switch to the feed rate of the heat level advance setting.
- High/low position on C-E-101 & C-E-401

3. ON/OFF THERMOSTAT MODE

- In this mode when the home is warm enough the stove will shut off. The fans will continue to run until the POF thermodisc opens.
- When the home cools below the thermostat setting, the stove will automatically start itself and run where the feed rate is set.
- On/Off position on C-E-101 & C-E-401

NOTE: When in High/Low or On/Off thermostat mode -

- Do not operate the stove higher than the #3 setting.
- Set the damper control rod approximately 3/8" out. This will vary depending on elevation and weather conditions.
- When the stove is hooked up to a thermostat it will not operate manual mode. This means that if the thermostat is switched to its "off" position the unit cannot be operated at the control panel.

THERMOSTAT INSTALLATION

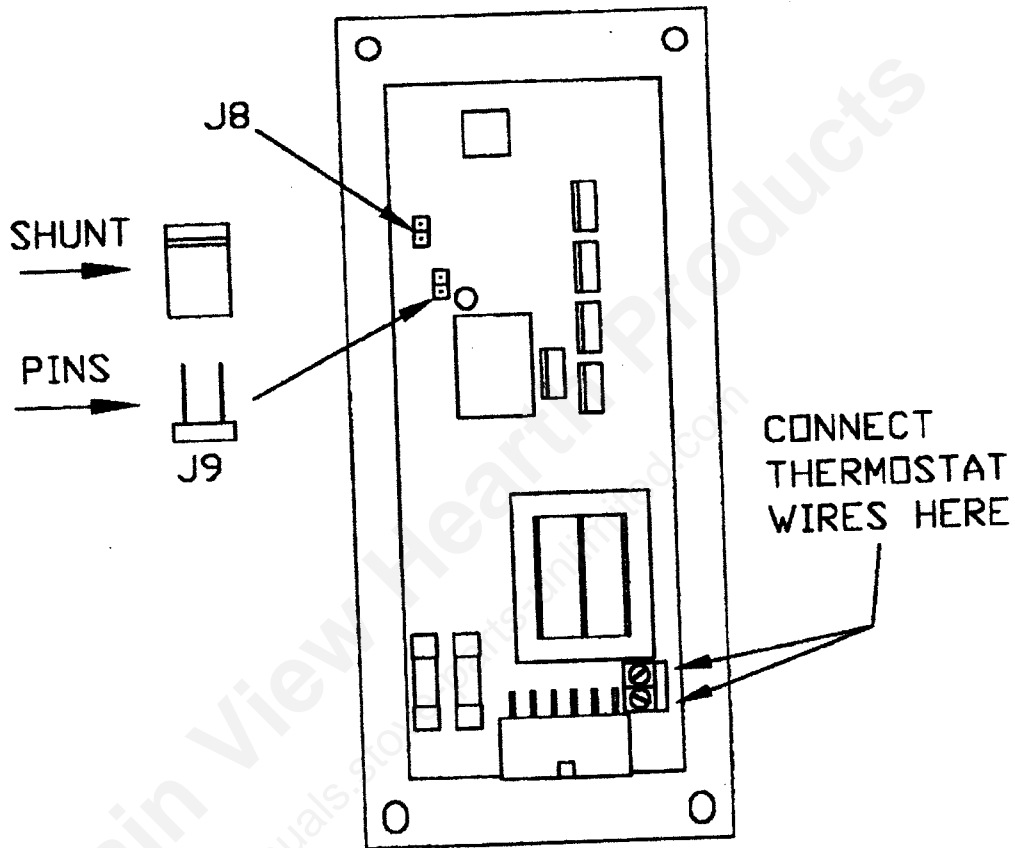
WIRE CONNECTIONS

The two thermostat wires connect to the terminal block on the lower right side of the back of the digital board. (See diagram) Make sure to remove the jumper wire from the terminal block prior to connecting the wires. Loosen the two screws, insert the wires in the terminal side and tighten the two screws.

SHUNTS

There is one shunt and 2 sets of pins on the rear upper left part of the board. J8 or the upper shunt and pins should be disregarded as it's for factory testing of the board. J9 is the lower shunt and pins.

- When the J9 shunt is over one pin, or off both pins, the digital board is in HIGH/LOW thermostat mode. THIS IS THE FACTORY SETTING FOR THE DIGITAL BOARD.
- When the J9 shunt is over both pins the digital board is in ON/OFF thermostat mode.



BRECKWELL REMOTE THERMOSTAT (ACUMEN)
(SEE INSTALLATION & OPERATING INSTRUCTIONS)
(SEPARATE DOCUMENT)