

England's Stove Works, Inc.

Pellet, Corn, Gas and Wood Stoves

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**WARNING: ELECTRICAL SHOCK
CAN OCCUR IF UNIT IS NOT
UNPLUGGED.**

REPLACING YOUR PU-CB98 CIRCUIT BOARD WITH THE PU-CB04 CIRCUIT BOARD

WARNING: STOVE MUST BE OUT (NO FIRE), COOLED DOWN, AND UNPLUGGED BEFORE PROCEEDING. FOLLOW ALL CODES.

NOTE: OLDER BOARDS (THOSE WITH TWO KNOBS AND TWO BUTTONS, INSTEAD OF THE TOUCH PAD) ARE WIRED DIFFERENTLY. THE NEWER STYLE BOARDS WILL WORK WITH STOVES THAT USED THE OLD BOARDS; PLEASE STATE YOUR MODEL NUMBER AND DATE OF MANUFACTURE WHEN ORDERING.

1. If you are replacing an existing board, remove the rear access panel from the stove. Eight screws hold it in place. The simplest way to change boards is to remove the wires one at a time from the old board and plug them into the new board; however, if the old circuit board has already been removed, wiring a new one is quite easy. No solder joints are required, and the tools you will need are very basic. You will need: a pair of cutting pliers; a 5/16" wrench or socket; and some zip ties (plastic wire ties). *Note: if your stove was manufactured before 2001, you will also need a 1/8" Allen wrench for the heat sensor screw.*

2. The first step in replacing the old board is to remove the screw that holds the Heat Sensor in place. The sensor is located on the left side of the feeder pot assembly (assy.), and is screwed into the firewall.

3. The next step is to unscrew the old circuit board from the side of the stove. *Note: If your unit is an insert, remove the circuit board mounting plate from stove with the board attached.* There are two 5/16" screws that hold the board in place.

4. Looking at the back of the board (from left to right), the wires should be placed as follows: Terminals 1 and 2 are for the Convection (room air) Blower (this is the black blower located against the firewall to the left of the feeder pot assy.).

PLEASE NOTE:

"White/Black Rule:"
If the component has a white and a black wire, the white wire should be plugged into the terminal marked "com" (Terminal 1 in this case), and the black wire should be plugged into the other terminal (Terminal 2 in

this case). If your component has two black wires, it does not matter which way they are placed.

5. The next two terminals (Terminals 3 and 4) are for the Upper Auger Motor, which is located in the center of the stove, mounted to the feeder pot. Again, if there is a white and a black wire, the white wire should be plugged into "com" (Terminal 4) on your board; if your motor has two black wires, it does not matter which way they are placed.

6. The wires for the Lower Auger Motor (again located in the center of the stove, under the Upper Auger Motor) should be plugged into Terminals 5 and 6, and the above mentioned white/black rule applies, with the white wire (if present) plugging to Terminal 5 and the black to Terminal 6. **NOTE:** Term. 5 (marked "Lower") is turned sideways to allow room for the top mounting screw.

7. Terminals 7 and 8 are for the Combustion (Exhaust) Blower. As always, the white/black rule applies, with the black wire plugging into Terminal 7 and the white (if present) into Terminal 8.

8. The final two terminals (9 and 10) are for the Cartridge Heater Igniter (2004 or later). If your unit predates the Auto-Start Igniter system, nothing is plugged into either of these terminals. If your stove is equipped with a Vacuum Switch, the wires for it connect to the "J-2" terminals near the bottom of the board. An optional thermostat (part GU-1E30-914) would connect to the "J-3" terminals, located beside the J-2 terminals.

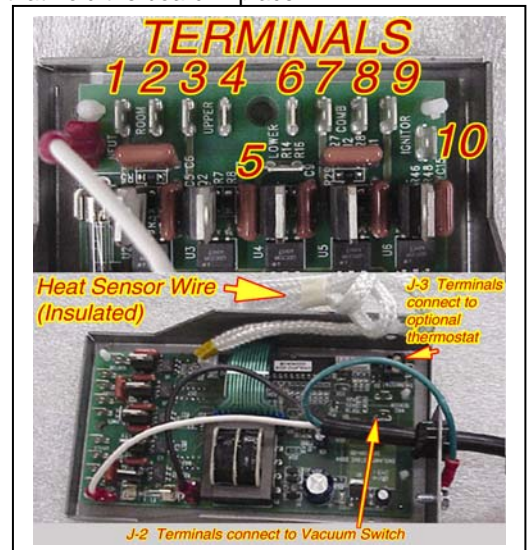
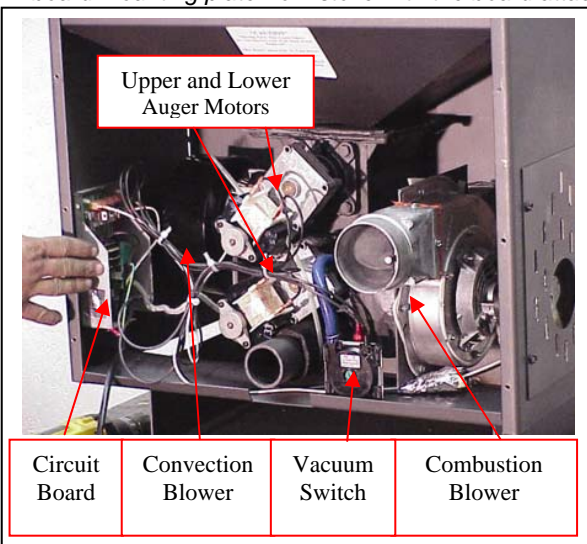
9. Last, reinstall the new Heat Sensor to the hole that is located to the left of the feeder pot, and fasten the new board to the side of the stove. Tie all of the wires in the back of the unit together, if they were cut free of the ties that were originally in the stove.

Important:

Tie the wires up in such a way as to prevent them from touching any electric motors or moving parts inside the stove!

10. After tying up your wires, plug the stove back in. **Do not reach into the back of the stove after plugging it in!** Turn the stove on and visually check components for proper function. Remember that the Convection Blower will not come on until the stove is at operating temperature, the Upper Auger Motor will run intermittently, and the Lower Auger Motor and Combustion Blower will run continuously.

11. After confirming proper function, shut the stove down and unplug it from power, replace the rear panel, and reinstall the flue system if it has been uninstalled.



Technical Support: (800) 245-6489

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