

Pressure Specifications on Product

06-26-95

| | | |
|------------|--------------------|----------------|
| Advantage: | Combustion pos. #1 | - .05 to - .20 |
| | Combustion pos. #5 | - .35 to - .65 |
| | Convection High | + .65 to + .85 |
| | Convection Low | + .10 to + .33 |
| Quest: | Combustion High | - .08 to - .17 |
| | Combustion Low | - .43 to - .56 |
| | Convection High | + .25 to + .45 |
| | Convection Low | + .10 to + .20 |
| Cascade: | Combustion High | - .28 to - .55 |
| | Combustion Low | - .11 to - .25 |
| | Convection High | + .18 to + .39 |
| | Convection Low | + .09 to + .17 |

QUEST SERVICE MANUAL

Appendix C

1. In Trouble shooting a Quest Stove, the following negative pressure (MAGNEHELIC) readings measured at the firebox may be used:

| <u>Damper Full Open</u> | <u>Damper Closed</u> |
|-------------------------|----------------------|
| -0.17 Cold | -0.04 Cold |
| -0.10 Hot | -0.02 Hot |

The access port for taking the readings is found on the front side of the stove, just above the door latch. Be sure your Magnehelic Gauge is hooked up on the "low pressure" (Vacuum) side.

2. Feed Rates on a factory specification control board should be as follows:

Lowest Feed Rate:

On Time: 1.5 seconds

Off Time: 9.5 seconds

Highest Feed Rate:

On Time: 1.5 seconds

Off Time: 1.7 seconds *

*The procedure detailed on the previous page allows an increase in the High End "off time" to approximately 2.1 seconds. This change results in less High End feed rate.

QUEST SERVICE MANUAL

QUEST WIRING DIAGRAM

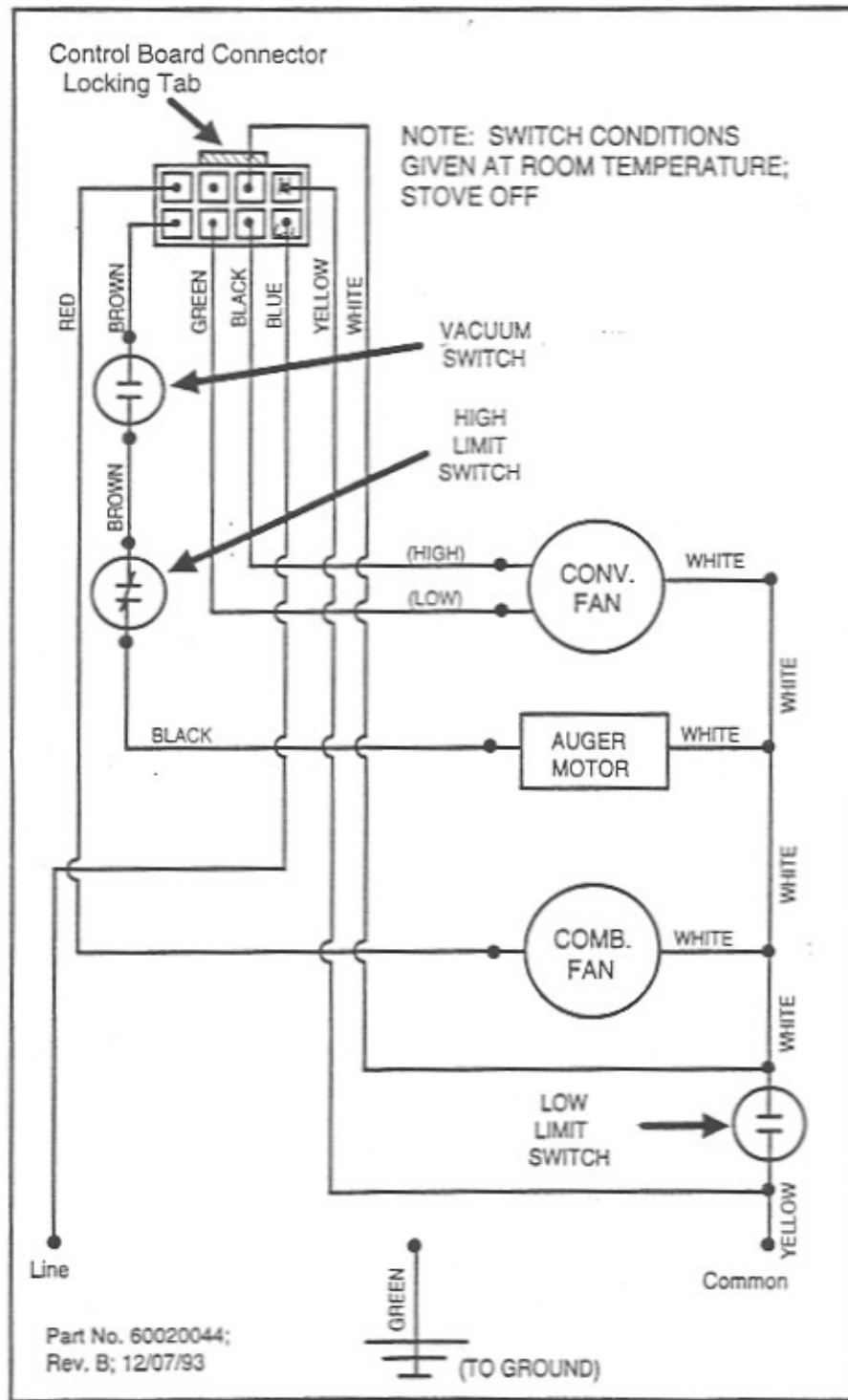


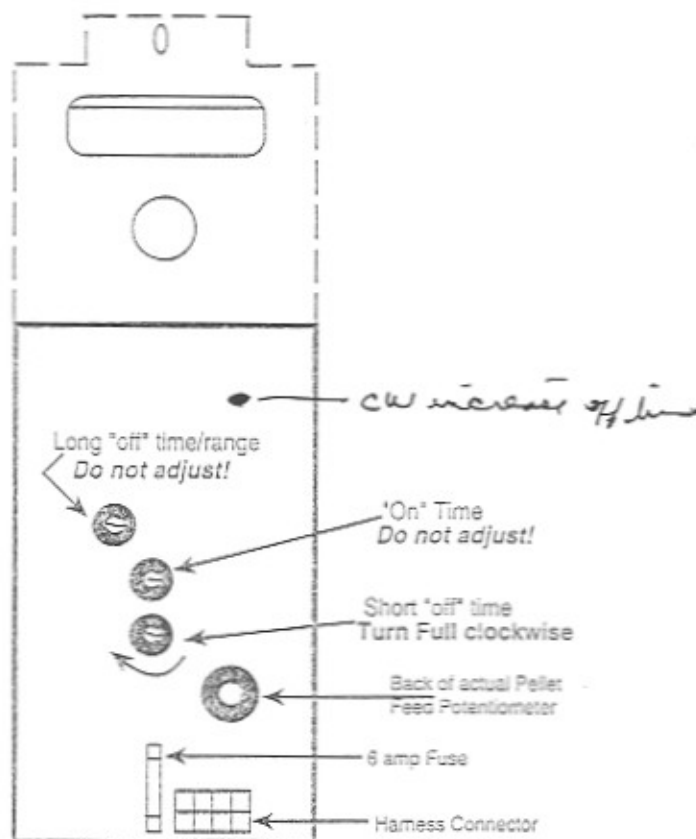
Figure 29 -Wiring Diagram

Appendix B

Control Board Adjustment

WARNING: The following procedure for reducing High End feed rate is to be used only when all other steps have been taken to eliminate fuel "piling" in the grate.

1. Unplug the power cord from the wall or the back of the stove.
2. a). Disconnect the control board cable connector. b). Loosen the set screw on the Damper Control Knob with the 1/16" hex head wrench, supplied. c). Using a 1/4" socket or nut-driver, remove the #8 Tek screw at the top of the control board and take the board out of the stove.
3. Carefully remove the valox cover from the back of the board.
4. a). Take a moment to identify the four potentiometers on the back of the board. There are three small ones and one larger (which is the back of the Pellet Feed Knob). b). Go to the third small potentiometer from the top (see figure) and remove the pink protective coating with a small screw driver or knife blade.
5. Using a small screwdriver, turn the adjustment screw on this potentiometer clockwise through its full rotation. This adjustment will reduce high end fuel feed rate by 1/4 to 1/2 pound per hour. Pile-up with the particular brand of fuel should be eliminated. **NOTE: Do not adjust the top two potentiometers!**
6. Replace the valox cover and re-install the Control board into the stove. Turn the damper actuation rod and then verify that the damper knob is properly indexed for a full open or full closed setting.



Rear View of
Quest Control Board

NOTE: Control Board Back Pictured with VALOX Cover removed and most components not shown for clarity

Figure 31 -- Control Board Adjustment