

# C-11652 Circuit Board – Part # 50-1929

## Programs

Not for Omega, Empress/Milan insert or M55.

**Program 1:** Same as 3000 circuit board parameter – for all pellet stoves with the exception of units listed with programs #2, 3, 4. – One flash

**Program 2:** Convection fan button disabled – Empress FS – two flashes.

**Program 3:** 60,000 Btu feed rate – Maxx – three flashes

**Program 4:** 50,000 Btu feed rate – Maxx – four flashes

**Note:** To achieve 70,000 Btu, for Maxx only, you need to trim up the feed rate on program 3.

## Program Change Procedure

- Unplug unit
- Disconnect high limit wire
- Make sure unit is cold, or disconnect exhaust temp wire
- Make sure circuit board switch is in the manual position
- Plug unit back in
- Press the room air, feed trim, and combustion trim buttons all at the same time
- All five heat level lights will flash one to four times depending on what program it is set to
- Repeat until you have the desired program – see programs #1-4 above
- The board will hold this program as the default program
- Unplug unit and reconnect sensors
- Plug unit back in and it is ready to use

## Mounting Compatibility

This board can be retro fitted into all recessed control panels simply by mounting the circuit board and updating the decal to 50-1930

- Mini – units built before July 4, 2006 or with a serial number prior to 187254 will require a new side cab, and decal.
- All Maxx, Maxx-A, requires a control panel with decal 50-1931.
- Meridian FS/FPI, and EF5 only require a decal 50-1930
- Empress FS – not retrofit able pre s/n 208780

Heat level indicators:

- Bottom – position #1
- Top – position #5

Heat level adjustment up and down

- Convection fan on/off button. This button is inactive on some programs.

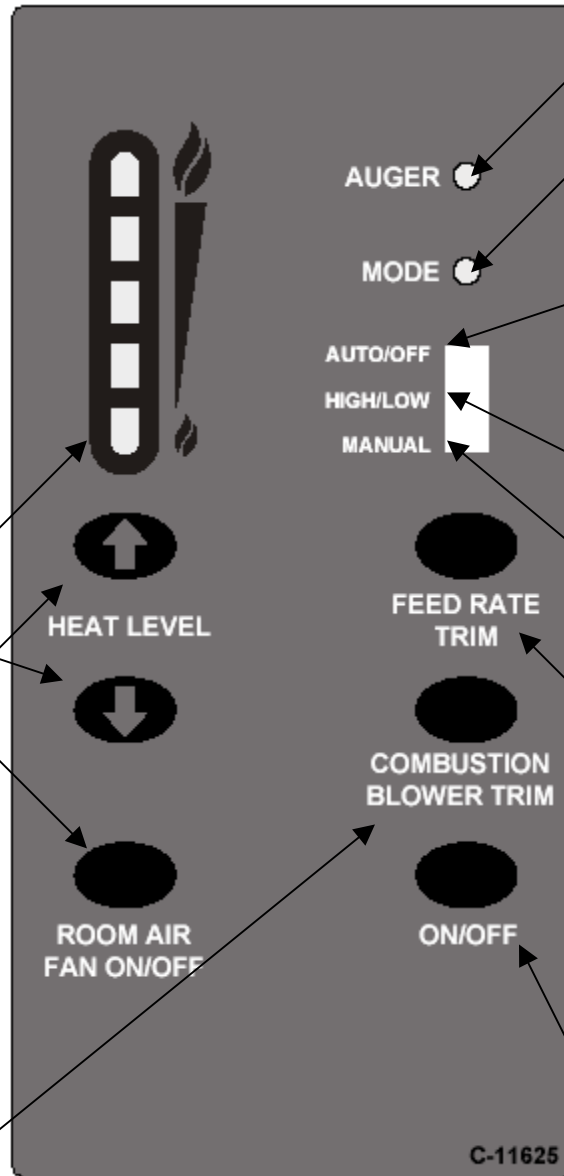
- Combustion fan trim changes exhaust voltage incrementally on all heat levels.

- When this button is pressed all the lights come on except the one that is the set point. This will indicate what setting it is on before adjustment.

-Hold button down and press the up or down arrow to adjust setting.

- #2 position is the default setting.

- Trim settings are maintained after loss of power.



Green pellet feed light flashes with auger feed pulse.

Amber mode light flashes during start up or when the T-stat is satisfied. When light solid control is returned to the user.

Once thermostat is satisfied unit will run at heat level #1 for 30 min. If there is no further call for heat after 30 min, the unit will shut down until the thermostat calls for heat.

Unit will cycle between set heat level and low as the thermostat calls for heat.

Thermostat not used. Manual control only.

- Feed trim changes 'on' time in 0.25 sec. increments for each feed settings.

- 1 setting up and 3 settings down.

- When this button is pressed all the lights come on except the one that is the set point. This will indicate what setting it is on before adjustment.

-Hold button down and press the up or down arrow to adjust setting.

- #4 position is the factory default setting

- Trim settings are maintained after loss of power.

Shut down cycle starts when you turn off the unit. If you try to turn the unit off when in T-stat mode and the T-stat is calling for heat the board will go into a start up mode.

## Start Up Cycle Bypass

- For diagnosis purposes only.
- To bypass the 15 min start up in all modes the exhaust temp sensor must be closed/bypassed.
- Now press both the heat level up and down buttons and the room air button at the same time.
- You will now have control of the circuit board.

## Error Flash Codes

- A flashing light in the #2 position indicates a vacuum failure – excluding Maxx.
- A flashing light in the #3 position indicates an exhaust temperature sensor failure.
- A flashing light in the #4 position indicates that the high limit sensor has been tripped.