



Deerfield/Foxfire Power Control Board

SKU# 250-04443

Compatibility

- Deerfield Pellet Stove
- Foxfire Pellet Stove

Compatibility Notes

Deerfield

In order to continue advancements in the Lopi Deerfield pellet stove, we have made changes to the combustion blower housing. This also required changing the voltages sent from the Power Control Board (PCB) to the combustion blower in the new (Generation 2) blower housing to achieve proper burn characteristics at all fan level settings. As a result, the previous PCB firmware is not compatible with the new (Generation 2) blower housing.

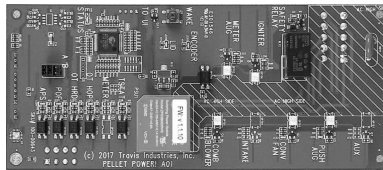
NOTE: Make sure to check the PCB firmware version using the instructions at bottom of this page and then compare it to the table below to ensure firmware compatibility of replacement parts.

Foxfire

The Foxfire stove use this Power Control Board (PCB) with no changes to jumper positions required (unless you wish to change from Fahrenheit to Celsius). There is no GEN 2 fan for the foxfire

Packing List

- Power Control Board (PCB)



- (2) Jumpers



Power Control Board Versions (only needed for Deerfield installation)

		Power Control Board Firmware Version	
		<u>Firmware Versions 1.1.9 or less (obsolete)</u>	<u>Firmware Versions 1.1.10 or Higher</u>
Fan Housing	<u>Generation 1 Fan Housing</u>	✓	✓
	<u>Generation 2 Fan Housing</u>	Not Compatible	✓ <u>With Jumper</u>

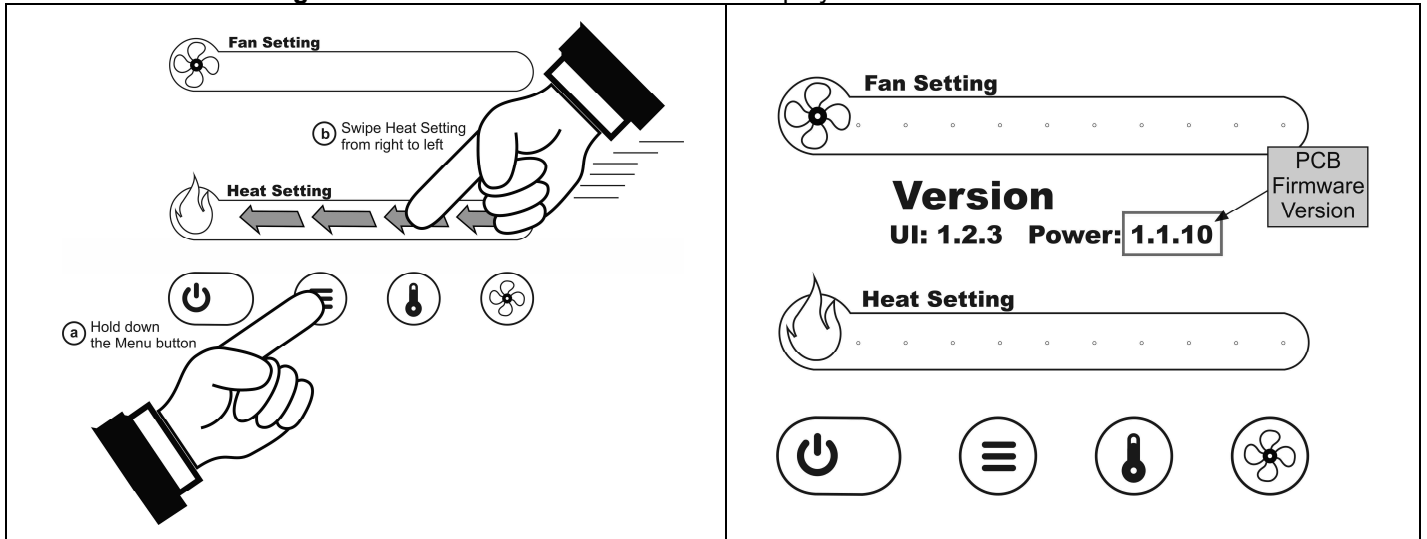


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How to Identify PCB Firmware Version (only needed for Deerfield installation)

To determine which firmware version an installed PCB board is running, hold down the “Menu” button while swiping left on the “Heat Setting” slider. The firmware version will be displayed on the user interface.

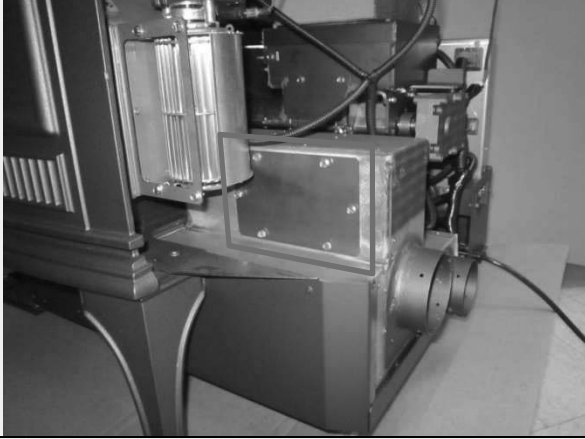
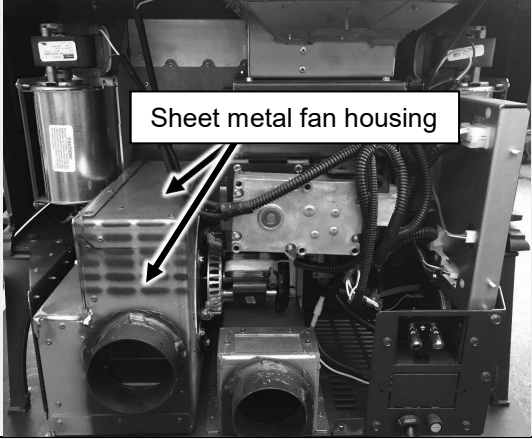

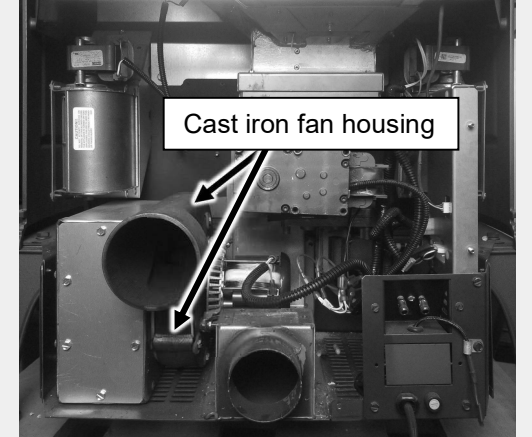




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How to Identify Gen 1 Fan Housing vs. Gen 2 Fan Housing (Deerfield Only)

Gen 1 - Fan Housing	Gen 1 – Rear View
	
<p>Gen 1 – Combustion fan has a cleanout on the side of the fan housing.</p>	<p>Gen 1 – Combustion fan bolts directly to the sheet metal fan housing. The exhaust outlet comes out of the sheet metal box.</p>
Gen 2 - Fan Housing	Gen 2 – Rear View
	
<p>Gen 2 – Combustion fan has a cleanout on the rear portion of the fan housing.</p>	<p>Gen 2 – Combustion fan bolts into a cast iron fan housing. The exhaust outlet comes out of the cast iron fan housing.</p>

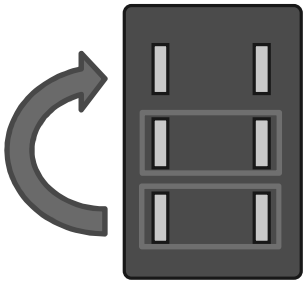
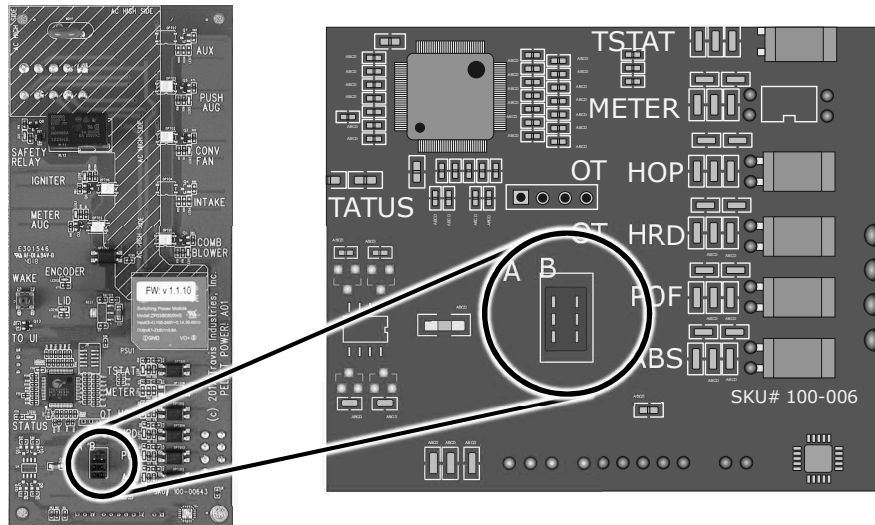


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Power Control Board Configuration

- Locate the configuration terminals located on the middle portion of the board (see below).



Function	Open	Jumped	<u>Deerfield</u> Notes	<u>Foxfire</u> Notes
Determines C°/ F°	✓ for F°	✓ for C°	Jumper installed = C° Jumper removed = F°	Jumper installed = C° Jumper removed = F°
Changes voltage for the new blower	GEN 1 Fan housing	GEN 2 Fan housing	NO Jumper = Gen 1 fan housing Jumper = Gen 2 fan housing	NO Jumper <u>ONLY</u>
Jumper Storage	_____	_____	Move the jumper to the top set of posts to display Celsius	Move the jumper to the top set of posts to display Celsius

NOTE The placement of a jumper on the center set of pins will change the combustion fan voltage settings. If using the replacement board with a Gen 1 fan housing, remove the factory-installed jumper. If using the replacement board with a Gen 2 fan housing (cast iron), leave the factory-installed jumper in place.

NOTE: The factory-installed jumper on the bottom set of pins is for use if changing the default Fahrenheit temperature reading to Celsius temperature readings. If Celsius temperature readings are preferred, move the jumper from the bottom set of pins to the top set of pins.



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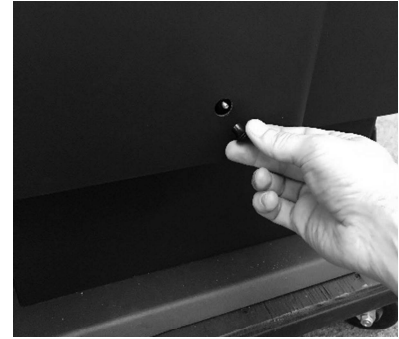
Power Control Board (PCB) Removal and Replacement



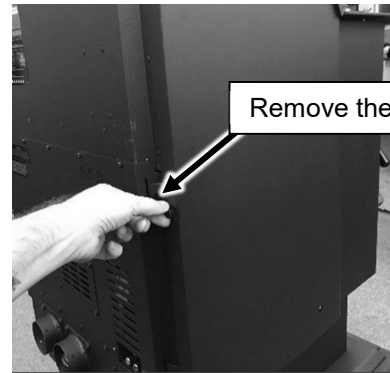
Unplug the stove to prevent electrical shock.

Foxfire

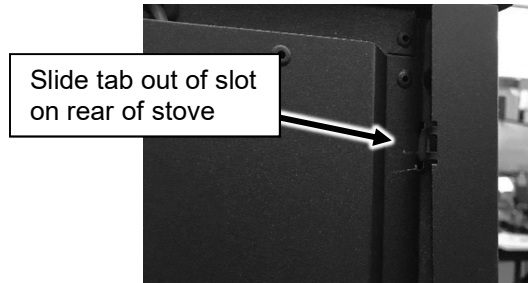
- Push the air restrictor rod all the way in and unscrew the knob from the end of the restrictor rod (set aside for reinstallation).



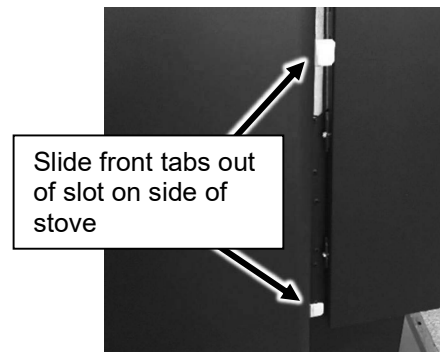
- Slide the panel backward slightly to release the small tab on the upper rear portion of the panel from the slot on the stove.



- Slide the panel backward slightly to release the small tab on the upper rear portion of the panel from the slot on the stove.



- Slide the panel back further to disengage the front tabs from the stove. The panel is now free and can be set aside.





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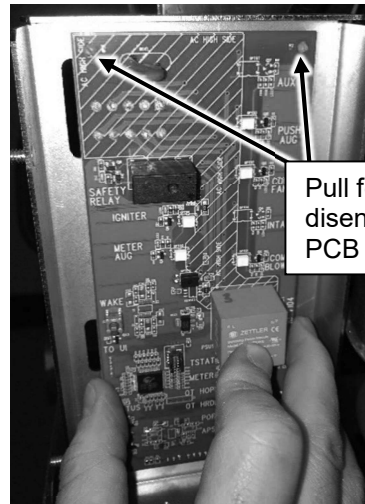
Deerfield

- Remove the (3) 5/16" screws along the top and (3) additional screws along the bottom of the back panel. Lift up on the panel using the handle on the top edge to disengage the bottom of the panel from the floor of the stove. Set the screws aside for reinstallation.

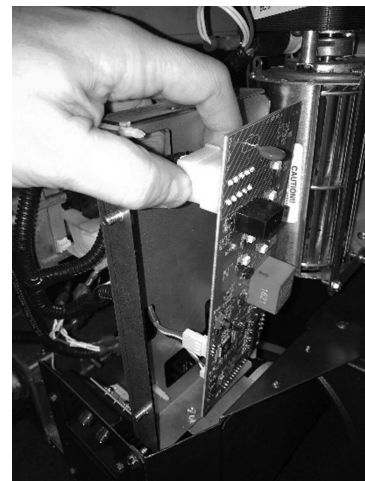


Foxfire and Deerfield

- Locate the Power Control Board (PCB) on the left side of the stove (left side when facing the front of the stove). Gently pull the PCB away from the metal shield that surrounds it to gain access to the back of the board. You may need to assist some of the wire harnesses through the shield behind the board. The board is held in place by a clip in each corner.



- Press the (2) tabs on the sides of the 10 pin Molex plug (supplies AC power to the PCB) and disconnect it from the board.





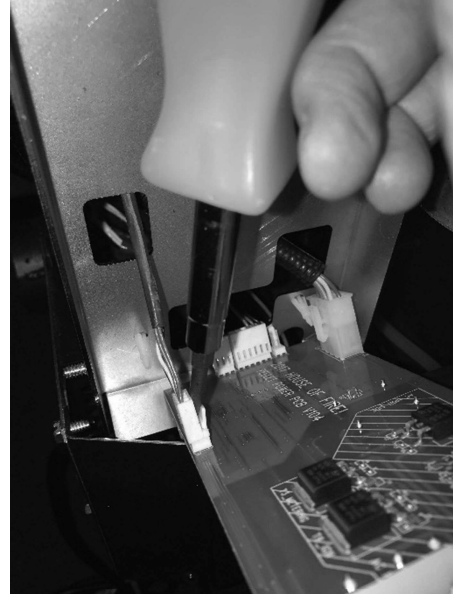
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Foxfire and Deerfield

- With a flat head screwdriver, gently pry the tab back on the Molex from the User Interface and disconnect it from the board.

NOTE: Be careful not to bend the tab further than needed to release it from the board.



- Press the tab on the safety circuit Molex on the board to release it. Disconnect it from the board.





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Foxfire and Deerfield

- The long flat Molex at the bottom of the board is two separate connectors. The smaller of the two is from the encoder on the push auger motor. The larger connector is from the external thermostat. These connectors have the same type of tab on it as the User Interface connector. Pry the tab back slightly and disconnect the connectors from the board.



- Install the new power control board into the stove by reversing the steps above.