

## Stove Parts 4 Less 16052112

# Stove Parts 4 Less Whitfield Profile 30 & Optima 3 Control Board

MODEL: 16052112 - INSTRUCTION MANUAL

## 1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Stove Parts 4 Less Whitfield Profile 30 & Optima 3 Control Board, model 16052112. This control board is a direct replacement part designed to restore full functionality to compatible pellet stoves.

### 1.1 Product Overview

The control board is a critical component for managing the heating and blower functions of your pellet stove. It features a 120V AC power requirement and an LED display for status and fault indications.

### 1.2 Compatibility

This control board is compatible with the following Whitfield pellet stove models:

- Whitfield Optima 3 FS
- Whitfield Optima 3 INS
- Whitfield Profile 30 FS
- Whitfield Profile 30 INS

It is a compatible replacement for original part numbers **16052112** and **16022112**.

## 2. Safety Information

Please read and understand all safety instructions before attempting installation or operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Disconnect Power:** Always ensure the pellet stove is completely disconnected from its power source before beginning any installation, maintenance, or inspection.
- **Qualified Personnel:** Installation and service should only be performed by a qualified technician or licensed electrician.
- **Electrical Hazards:** This device operates on 120V AC. Exercise extreme caution when working with

electrical components.

- **Static Discharge:** Electronic components can be damaged by static electricity. Handle the control board by its edges and avoid touching exposed circuitry. Consider using an anti-static wrist strap.
- **Personal Protective Equipment:** Wear appropriate safety gear, including safety glasses and gloves, during installation.

### 3. Installation

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The following steps outline the general procedure for replacing the control board. Specific details may vary based on your pellet stove model. Refer to your stove's original service manual for detailed instructions on accessing the control board.

#### 3.1 Pre-Installation

1. Ensure the pellet stove is completely powered off and unplugged from the wall outlet.
2. Allow the stove to cool down completely if it has been in operation.
3. Gather necessary tools, which may include screwdrivers, pliers, and a multimeter.

#### 3.2 Removal of Old Control Board

1. Access the control board compartment of your pellet stove. This typically involves removing a side panel or access cover.
2. Carefully disconnect all wiring harnesses and connectors from the existing control board. It is recommended to take photos or label wires to ensure correct re-connection.
3. Unscrew or unclip the old control board from its mounting points.
4. Remove the old control board from the stove.

#### 3.3 Installation of New Control Board

1. Position the new control board in the mounting location.
2. Secure the new control board using the original screws or clips. Do not overtighten.
3. Carefully re-connect all wiring harnesses and connectors to their corresponding ports on the new control board. Refer to your labels or photos taken during removal. Ensure all connections are firm and secure.

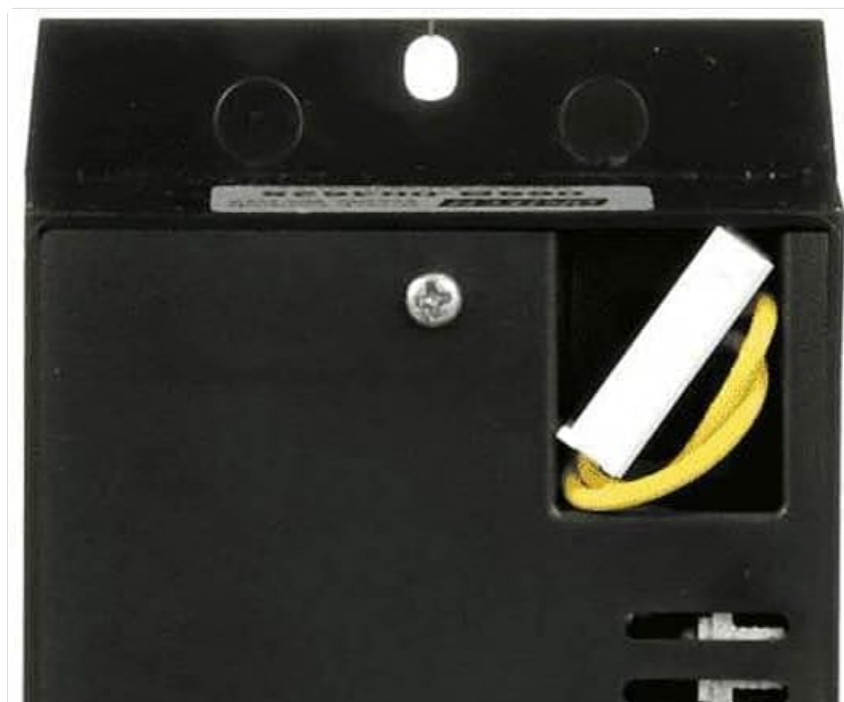




Figure 1: Rear view of the control board, illustrating the various connection ports for wiring harnesses. The label indicates 'Ortech Controls Seattle, WA USA', 'Lennox P/N: 16022112', and 'Model: Profile 30 Ver 1.13'.

### 3.4 Post-Installation Checks

1. Double-check all wiring connections to ensure they are correct and secure.
2. Ensure no wires are pinched or obstructing moving parts.
3. Replace any access covers or panels removed during installation.
4. Plug the pellet stove back into the power outlet.

## 4. Operation

This section describes the basic functions and controls of the Whitfield Profile 30 & Optima 3 Control Board. For detailed operational instructions specific to your pellet stove model, please consult your stove's user manual.

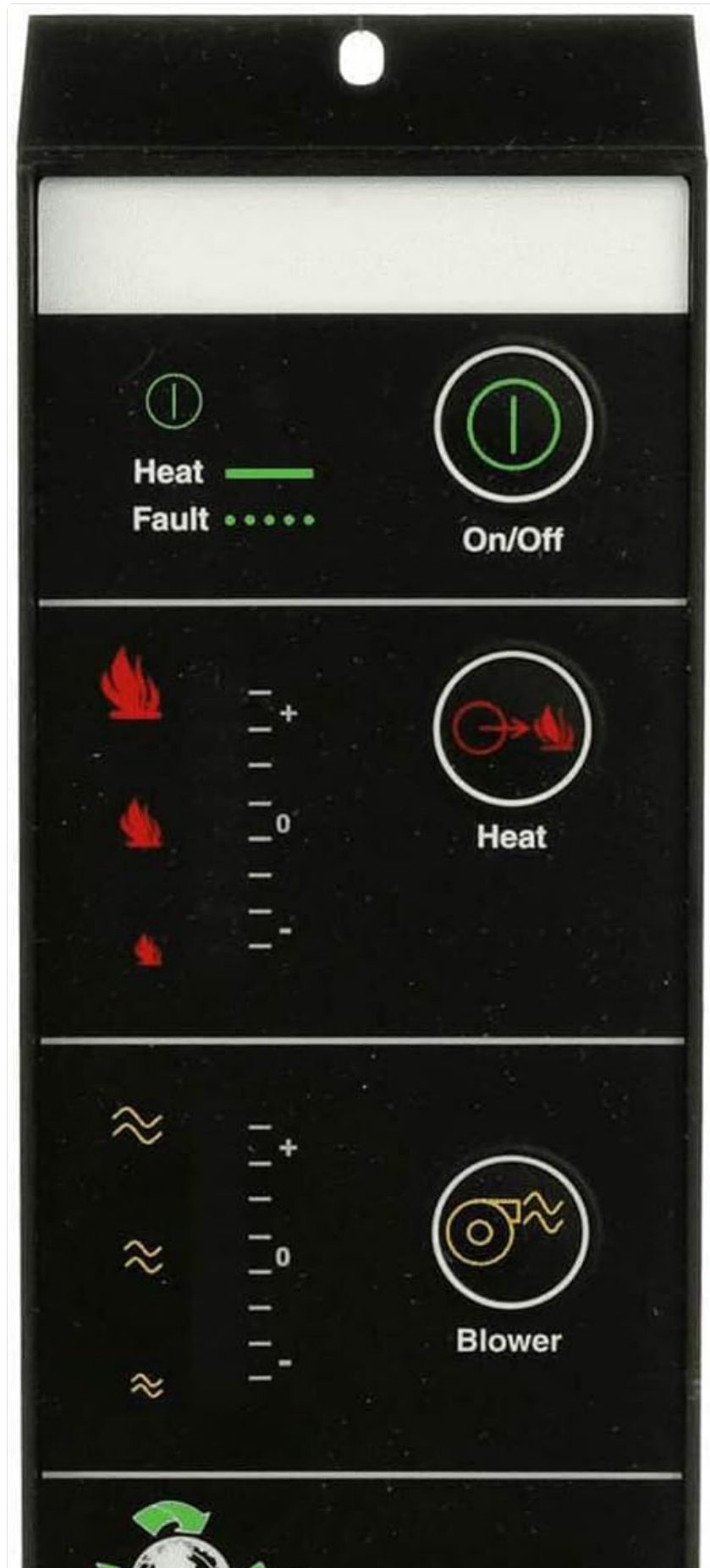




Figure 2: Front panel of the control board, displaying the On/Off, Heat, and Blower controls, along with LED indicators for Heat and Fault status.

### 4.1 Control Panel Overview

- **On/Off Button:** Initiates or terminates the stove's operation.
- **Heat Control:** Adjusts the heat output level. Typically includes '+' and '-' settings.
- **Blower Control:** Adjusts the speed of the convection blower. Typically includes '+' and '-' settings.
- **Heat Indicator (LED):** Illuminates to show the stove is actively heating.
- **Fault Indicator (LEDs):** A series of LEDs that illuminate in specific patterns to indicate various operational faults or issues. Consult your stove's manual for specific fault code interpretations.

### 4.2 Basic Operation

1. **Starting the Stove:** Press the **On/Off** button. The stove will initiate its startup sequence, which typically includes igniter activation and feeding pellets. The Heat LED may illuminate.
2. **Adjusting Heat:** Use the **Heat '+'** and **'-'** buttons to increase or decrease the desired heat output.
3. **Adjusting Blower:** Use the **Blower '+'** and **'-'** buttons to control the speed of the convection fan, which distributes heat into the room.
4. **Shutting Down the Stove:** Press the **On/Off** button again. The stove will enter a shutdown cycle, which includes a cool-down period for the blower to run until the fire is extinguished and the stove is cool. Do not unplug the stove during this cycle.

## 5. Maintenance

The Whitfield Profile 30 & Optima 3 Control Board is designed for durability and requires minimal user maintenance. However, general care of your pellet stove is essential for the longevity of all its components.

- **Cleaning:** Ensure the control board area is kept free of dust and debris. Always disconnect power before cleaning. Use a soft, dry cloth or a small brush to gently remove dust. Do not use liquid cleaners directly on the board.
- **Inspection:** Periodically inspect wiring connections to the control board for any signs of looseness, corrosion, or damage. Address any issues promptly.
- **No User-Serviceable Parts:** The control board itself contains no user-serviceable parts. Do not attempt to open or repair the board.

## 6. Troubleshooting

If your pellet stove experiences issues after control board replacement, review the following common troubleshooting steps. For complex problems, consult a qualified technician.

## 6.1 Common Issues

- **No Power to Stove:**
  - Check if the stove is properly plugged into a working outlet.
  - Verify the circuit breaker has not tripped.
  - Ensure all wiring connections to the control board are secure.
- **Stove Not Igniting:**
  - Confirm there are pellets in the hopper.
  - Check for proper igniter function (may require professional inspection).
  - Ensure the auger is feeding pellets correctly.
- **Blower Not Operating:**
  - Verify blower settings on the control panel.
  - Check for obstructions in the blower fan.
  - Ensure blower motor connections to the control board are secure.
- **Fault Indicator LEDs:**
  - Observe the pattern of the fault LEDs. Refer to your specific stove model's user manual for a detailed explanation of fault codes. Common faults can include issues with exhaust temperature, vacuum pressure, or igniter failure.

If troubleshooting steps do not resolve the issue, it is recommended to contact a qualified service technician.

## 7. Specifications

<b>Model Number</b>	16052112
<b>Compatible Part Numbers</b>	16052112, 16022112
<b>Voltage</b>	120V AC
<b>Product Dimensions</b>	9 x 4 x 2 inches
<b>Item Weight</b>	14.9 ounces
<b>Manufacturer</b>	Stove Parts 4 Less (Original board by Ortech Controls)
<b>Compatible Stove Models</b>	Whitfield Optima 3 FS, Whitfield Optima 3 INS, Whitfield Profile 30 FS, Whitfield Profile 30 INS

## 8. Warranty and Support

This product is supplied by Stove Parts 4 Less. For information regarding warranty coverage, returns, or technical support, please contact Stove Parts 4 Less directly through their official channels. Keep your purchase receipt as proof of purchase.

For general inquiries or further assistance, please visit the [Stove Parts 4 Less Store on Amazon](#).