

COMFORTBILT ELECTRONICS & THERMOSTAT UPGRADE KIT INSTALL INSTRUCTIONS

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Install Instructions

Motherboard Installation

1. Ensure that the power is disconnected from the unit
2. Unscrew the anchor bolts that secure the L-bracket to the stove body and back of the black box.
3. Lay the circuit board down on its back and place the new circuit board in the same orientation next to it.
4. Remove the cover plate from both boards (The plate will be held in place by 4 screws).
5. One-by-one, remove the connection wires from the old board and attach them to the new board in the same location
 - If there is any confusion about the connection locations, click on the **Videos** tab or review the "Connections" list below.
 - If installing a mechanical thermostat, refer to steps 5 through 8 of the "Thermostat Installation" section below.
6. After all connectors have been attached to the new board, reattach the face plate.

7. Remount the bracket to the black box and stove.
8. Reconnect power to the stove.

Thermostat Installation

1. Ensure that the power is disconnected from the unit
2. Unscrew the anchor bolts that secure the L-bracket to the stove body and back of the black box.
3. Lay the circuit board down on its back.
4. Remove the cover plate from the Motherboard (The plate will be held in place by 4 screws).
5. Connect the thermostat pigtail connector to the motherboard at the slot marked "level" (refer to the figure below).
6. Fish the other end of the thermostat pigtail connector through the rear of the stove.
7. Connect the thermostat wire between the mechanical thermostat and pigtail.
8. Reattach the faceplate of the motherboard.
9. Remount the bracket to the black box and stove.
10. Reconnect power to the stove.

Connections Index

- Black 20 pin: Connector for gray data line going to top control panel.
- Red 2 pin: Connector for NTC1 Proof of fire switch
- Yellow 2 Pin: NTC2 Overheat sensor
- White 2 Pin: Thermostat temperature sensing wire
- Blue 2 Pin: Limit/Hopper Lid Switch

- Black 2 Pin: Vacuum Switch Starting at the top right and going down the right side:
- Blue soft cover: 10A motherboard fuse
- White 14 Pin: Main power harness connector

Figures

