

PIT BOSS®
iFire P7x.5
Controller



Pit Boss iFire P7x.5 Controller User Manual

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PIT BOSS®

Pit Boss iFire P7x.5 Controller



Specifications

- Compatible with Pit Boss Series 3/4/5/7 Vertical Pellet Smoker
- 4 built-in program versions: 3.5, 4.5, 5.5, 7.0
- Panel keys: F/C Button, Power Button, Rotary Knob

Product Usage Instructions

Panel Keys Illustration

- F/C Button
- Power Button
- Rotary Knob

Setting Steps

1. Press and hold the F/C Button while the unit is off
2. Energize the unit
3. Release the F/C button
4. Press the Power Button to enter the Program Version Setting Mode.
5. Select a program version using the Rotary Knob
6. Confirm the selection by pressing the F/C Button
7. Disconnect power to exit setting mode
8. Energize the unit to use as normal

TEMP-CONTROL PROGRAM SETTING

P7 X.5 Controller is designed for Pit Boss Series 3/4/5/7 Vertical Pellet Smoker Control board replacement, it has 4 built-in program versions(3.5, 4.5, 5.5, 7.0) for Series 3/4/5/7 Vertical Pellet Smoker respectively. You can use it as normal by simply selecting a corresponding program version in line with the Vertical Pellet Smoker Model you own.

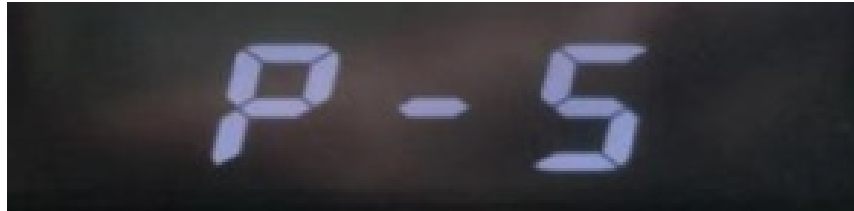
Panel Keys Illustration



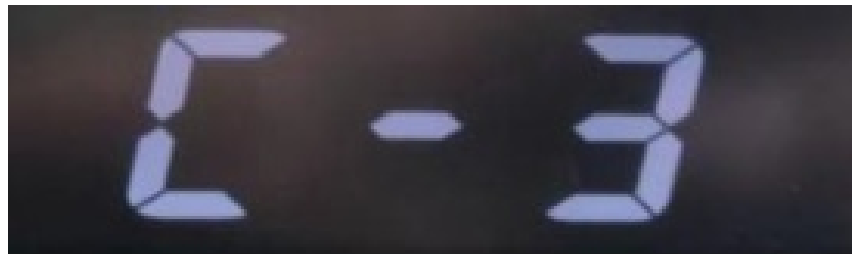
- F/C Button
- Power Button
- Rotary Knob

Setting Steps

- Press and hold the F/C Button when it is not energized
- Energize the unit
- Release the F/C button
- Press the Power Button to enter the Program Version Setting Mode
- Select a program version for your smoker
- Rotate the Knob onto SMOKE: Display shows the current program version P-3, P-4, P-5, or P-7(for Series 3/4/5/7 Vertical Pellet Smoker respectively)



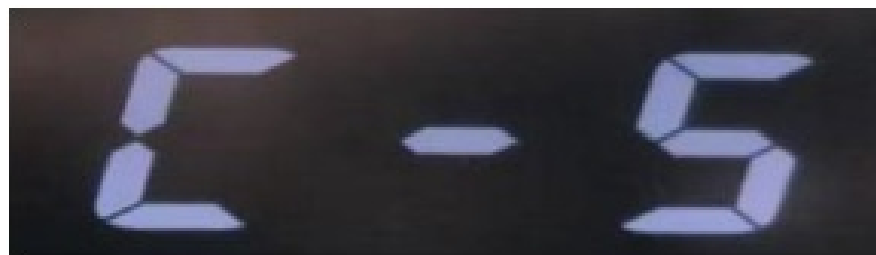
- Rotate the Knob onto 150°, display shows C-3 for 3-Series Vertical Pellet Smoker



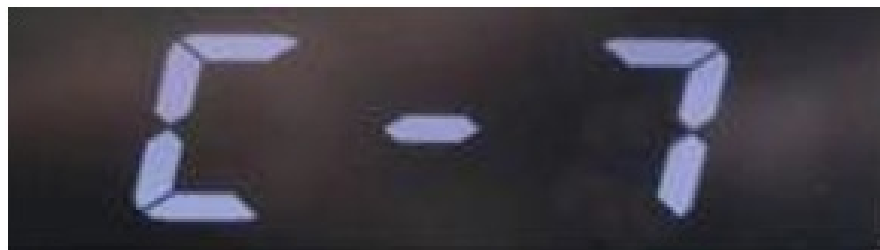
- Rotate the Knob onto 175°, display shows C-4 for 4-Series Vertical Pellet Smoker



- Rotate the Knob onto 200°, display shows C-5 for 5-Series Vertical Pellet Smoker



- Rotate the Knob onto 225°, display shows C-7 for 7-Series Vertical Pellet Smoker



- Rotate the Knob to other degrees, the display shows " ", indicating that it cannot be selected.

After selecting the right version for your pellet Smoker, press the F/C Button to confirm, that the corresponding version will be displayed as "P-3, P-4, P-5 or P-7", indicating that the setting is done.

Disconnect the power source to exit the Program Version Setting Mode

To energize the unit, the pellet smoker can be used as normal.

Shut Down

Do not cut the power supply right after you are done use. A cool-down program will be running to prevent cases such as fuel pipe scorched, ash stacking in burn pots, and hopper backfires. This process will usually last 15 minutes.

TROUBLESHOOTING

Problem	Cause	Solution
No Power Lights On The Control Board	Power Button	Press the Power Button. Try another attempt and hold for two seconds to verify the connection.

	Not Connected To Power Source, GFCI Outlet Has Tripped	Ensure the smoker is plugged into a working power source. Reset breaker. Ensure GFCI is a minimum 10 Amp service. Ensure all wire connections are firmly connected and dry.
	Fuse Blown On The Control Board	Remove cooking components from the main smoke cabinet. Turn the unit onto its side, and remove the screws on the rear side of the Control Board. Check the fuse for a broken wire or if the transparent fuse tubing has turned black. If yes, manually replace it with a new fuse.
	Faulty Control Board	Control Board needs to be replaced. Contact Customer Service for a replacement part.

Fire In Burn Pot Will Not Light	Auger Not Primed	Before the unit is used for the first time or anytime the hopper is completely emptied, the auger must be primed to allow pellets to fill the burn pot. If not primed, the igniter will time out before the pellets ignite. Follow the Hopper Priming Procedure.
	Auger Motor Is Jammed	Remove cooking components from the main smoke cabinet. Press the Power Button to turn the unit on, turn the Temperature Control Dial to SMOKE, and inspect the auger feed system. Visually confirm that the auger is dropping pellets into the burn pot. If not operating properly, call Customer Service for assistance or a replacement part.
	Igniter Failure	Remove cooking components from the main smoke cabinet. Press the Power Button to turn the unit on, turn the Temperature Control Dial to SMOKE, and inspect the igniter. Visually confirm that the igniter is working by placing your hand above the burn pot and feeling for heat. Visually confirm that the igniter is protruding approximately 13mm / 0.5 inches in the burn pot. If not operating properly, follow the Manual Start-up Procedure to continue the use of the smoker; however, call.

		Customer Service for assistance or a replacement part.
Flashing Dots On LED Screen	The Igniter Is On	This is not an error that affects the unit. Used to show that the unit has power and is in Start-Up mode (igniter is on). The igniter will turn off after five minutes. Once the flashing dots disappear, the unit will begin to adjust to the desired temperature selected.
Flashing Temperature On LED Screen	Smoker Temperature Is Below 65°C / 150°F	This is not an error that affects the unit; however, it is used to show that there is some risk that the fire could go out.
"ErH" Error Code	The Smoker Has Overheated, Possibly Due to Too Grease Fire Or Excess Fuel.	Press and hold the Power Button to turn the unit off. Once cooled, press the Power Button to turn the unit on, then select the desired temperature. If the error code is still displayed, contact Customer Service
"Err" Error Code	Temperature Probe Wire Not Making Connection	Access the electrical components on the base of the unit and check for any damage to the Temperature Probe wires. Ensure Temperature Probe spade connectors are firmly connected, and connected correctly, to the Control Board.
"ErL" Error Code	Ignition failure	The pellets in the hopper are insufficient, or the igniting rod is abnormal.
"noP" Error Code	Bad Connection At Meat Connection Port	Disconnect the meat probe from the connection port on the Control Board, and reconnect. Ensure the meat probe adapter is firmly connected. Check for signs of damage to the adapter end. If still fails, call.

		Customer Service for a replacement part.
	Meat Probe Damaged	Check for signs of damage to the wires of the meat probe. If damaged, call Customer Service for a replacement part.
	Faulty Control Board	Control Board needs to be replaced. Contact Customer Service for a replacement part.
Thermometer Shows Temperature When Unit Off	Smoker Has High Ambient Temperature Or Is In Direct Sun	This will not harm the smoker. The internal temperature of the main cabinet has ambiently reached or exceeded 54°C / 130°F. Move the smoker into a shaded area. Prop the cabinet door open to reduce the internal temperature.

Smoker Will Not Achieve Or Maintain Stable Temperature	Insufficient Air Flow Through Burn Pot	Check the burn pot for ash build-up or obstructions. Follow Care and Maintenance instructions for ash build-up. Check fan. Ensure it is working properly and air intake is not blocked. Follow Care and Maintenance instructions if dirty. Check the auger motor to confirm the operation, and ensure there is no blockage in the auger tube. Once all the above steps have been done, start the smoker, set the temperature to SMOKE, and wait for 10 minutes. Check that the flame produced is bright and vibrant.
	Lack Of Fuel, Poor Fuel Quality, Obstruction In Feed System	Check the hopper to check that the fuel level is sufficient, and replenish if low. Should the quality of wood pellets be poor, or the length of the pellets too long, this may obstruct the feed system. Remove pellets and follow Care and Maintenance instructions.
	Temperature Probe	Check the status of the temperature probe. Follow Care and Maintenance instructions if dirty. Contact Customer Service for a replacement part if damaged.
Smoker Produces	Grease Build-Up	Follow Care and Maintenance instructions.

Excess Or Discolored Smoke	Wood Pellet Quality	Remove moist wood pellets from the hopper. Follow Care and Maintenance instructions to clean out. Replace with dry wood pellets.
	Burn Pot Is Blocked	Clear burn pot of moist wood pellets. Follow the Hopper Priming Procedure.
	Insufficient Air Intake For Fan	Check fan. Ensure it is working properly and air intake is not blocked. Follow Care and Maintenance instructions if dirty.

Included Components

1 Control Board, 1 Ambient Probe, 1 Ignition Rod, 2 Meat Probes, 2 Probe Stands, 2 Numbered Tags.

Shut Down:

Do not immediately cut power after use. Allow the cool-down program to run for approximately 15 minutes to prevent issues.

Troubleshooting:

Problem	Cause	Solution
No Power Lights On The Control Board	Power Button	Press the Power Button. Check connection.
GFCI Outlet Has Tripped	Ensure the smoker is plugged into a working power source.	Reset the power source and breaker. Check connections.
Fuse Blown On The Control Board	Faulty control board	Contact Customer Service for a replacement.
Fire In Burn Pot Will Not Light	Multiple possible causes	Contact Customer Service for assistance.

FAQs


Q: How do I know which program version to select?

Select the program version corresponding to your Series 3/4/5/7 Vertical Pellet Smoker model.

Q: What should I do if the unit displays an error code ErH?

Press and hold the Power Button to turn off the unit. After cooling, turn it back on and select the desired temperature. If the error persists, contact Customer Service.

Documents / Resources

	Pit Boss iFire P7x.5 Controller [pdf] User Manual Series 3, Series 4, Series 5, Series 7, iFire P7x.5 Controller, iFire P7x.5, Controller
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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