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PIT BOSS

P7-340
Controller
Temp Control
Program
Setting

Pit Boss P7-340 Controller Temp Control Program Setting Instructions

Contents

PIT BOSS®

Pit Boss P7-340 Controller Temp Control Program Setting

Specifications:

- Model: P7-340

- Controller: Temp-Control Program Setting

- Panel Keys: PSET Button, Power Button, Rotary Knob

Product Usage Instructions

Setting Steps:

1. Press and hold the PSET Button when it is not energized (UNPLUG).
2. Energize the unit (PLUG THE UNIT).
3. Release the PSET Button.
4. Press the Power Button to enter the Program Code Setting Mode.
5. Select a program code for your pellet grill.

Troubleshooting:

No Power Lights On The Control Board

- **Cause:** Power Button not connected to power source, GFCI outlet has tripped, fuse blown on the control board, faulty control board.
- **Solution:** Press the Power Button. Verify power source connection. Reset breaker. Check fuse for damage. Replace fuse if necessary. Replace control board if faulty.

Fire In Burn Pot Will Not Light

- **Cause:** Auger not primed, auger motor is jammed, igniter failure.
- **Solution:** Check and prime the auger, clear any jams, inspect and replace igniter if needed.

P7-340 CONTROLLER TEMP-CONTROL

PROGRAM SETTING STEPS MANUAL
P7-340 Controller is the replacement control board for Pit Boss Wood Pellet Grill Tailgater P7-340 /Lexington P7-540 /Classic P7-700 /Austin XL P7-1000). This controller has 1 universal program for all and 4 OEM temperature controlling programs (L02, L03, P01, S01) for several models of PIT Boss grills sold on the market. If you want to use the OEM temperature controlling program, you need to check your program code showed on your old controller in the first second after you turn it on, then set the P7-PRO controller with the code you got. If your old controller is broken, you can set the code as follow:

L03: AUSTIN XL, L02: CLASSIC, P01: LEXINGTON, S01:TAILGATER and 440FB1 MATTE BLACK.

Panel Keys Illustration

1. "P"SET Button
2. Power Button
3. Rotary Knob

Setting Steps

1. Press and hold the "P"SET Button when it is not energized (UNPLUG);
2. Energize the unit (PLUG THE UNIT);
3. Release the"P"SET Button;
4. Press the Power Button to enter the Program Code Setting Mode;
5. Select a program code for your pellet grill:
   - Rotate the Knob onto SMOKE: Display shows the default program P-700, this for all models;
   - Rotate the knob onto 200°, display shows"C-L03"; this works on AUSTIN XL.
   - Rotate the knob onto 225°, display shows"C-L02"; this works on CLASSIC.
   - Rotate the knob onto 250°, display shows"C-P01"; this works on LEXINGTON.
   - Rotate the knob onto 300°, display shows"C-S01"; this works on TAILGATER & 440FB1 MATTE BLACK
   - Rotate the knob onto 350°, display shows C-700;
   - Rotate the knob onto other degrees, display shows"—", indicating that it cannot be selected
6. After selecting the right program code for your pellet grill, press "P" SET button to confirm, the corresponding version will be showed as "P-L03, P- L02, P- P01, P-S01 or P-700", indicating that the setting is done.
7. Disconnect the power source to exit the Program Setting Mode;
8. Energize the unit, the grill can be normally used;

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 connection.
	Not Connected To Power Source, GFCI Outlet Has Tripped	Ensure 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 with a new fuse.
	Faulty Control Board	Control Board needs to be replaced.

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 out, the auger must be primed to allow pellets to fill the burn pot. If not primed, the igniter will timeout before the pellets ignite. Follow 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 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 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.
Flashing Dots On LED	The Igniter Is On	This is not an error that effects the unit. Used to show that the unit has power
Screen		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	Smoker Temperature Is	This is not an error that effects the unit; however, it is used to show that there
LED Screen	Below 65°C /150°F	is some risk that the fire could go out
"ErH" Error Code	The Smoker Has	Press and hold the Power Button to turn the unit off. Once cooled, press the
	Overheated, Possibly Due	Power Button to turn the unit on, then select desired temperature. If error
	To Grease Fire Or Excess	code still displayed, contact Customer Service
	Fuel.	

"Err" Error Code	Temperature Probe Wire	Access the electrical components on the base of the unit and check for any
	Not Making Connection	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 hopper is insufficient,or the igniting rod is abnormal.
"noP" Error Code	Bad Connection At	Disconnect meat probe from connection port on the Control Board, and
	Connection Port	reconnect. Ensure the meat probe adapter is firmly connected. Check for signs
		of damage to the adapter end. If still failed, call Customer Service for
		replacement part.
	Meat Probe Damaged	Check for signs of damage to the wires of the meat probe. If damaged, call
		Customer Service for replacement part.
	Faulty Control Board	Control Board needs to be replaced. Contact Customer Service for a
		replacement part.
Thermometer Shows	Smoker Has High Ambient	This will not harm the smoker. The internal temperature of the main cabinet
Temperature When Unit	Temperature Or Is In Direct	has ambiently reached or exceeded 54°C / 130°F. Move the smoker into a
Off	Sun	shaded area. Prop the cabinet door open to reduce the internal temperature.
Smoker Will Not Achieve	Insufficient Air Flow	Check burn pot for ash build-up or obstructions. Check fan. Ensure it is working
Or Maintain Stable	Through Burn Pot	properly and air intake is not blocked. Follow Care and Maintenance
Temperature		instructions if dirty. Check auger motor to confirm operation, and ensure there
		is no blockage in the auger tube. Once all the above steps have been done,
		start the smoker, set temperature to SMOKE and wait for 10 minutes. Check
		that the flame produced is bright and vibrant.

	Lack Of Fuel, Poor Fuel	Check hopper to check that fuel level is sufficient, and replenish if low. Should
	Quality, Obstruction In	the quality of wood pellets be poor, or the length of the pellets too long, this
	Feed System	may cause an obstruction in the feed system. Remove pellets and follow Care
		and Maintenance instructions.
	Temperature Probe	Check status of temperature probe. Follow Care and Maintenance instructions
		if dirty. Contact Customer Service for a replacement part if damaged.
Smoker Produces Excess	Grease Build-Up	Follow Care and Maintenance instructions.
Or Discolored Smoke	Wood Pellet Quality	Remove moist wood pellets from 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 Hopper Priming Procedure.
	Insufficient Air Intake For	Check fan. Ensure it is working properly and air intake is not blocked. Follow
	Fan	Care and Maintenance instructions if dirty.

FAQs

Q: How do I resolve the issue of the thermometer showing temperature when the unit is off?
A: Check for any damages to the temperature probe wires and ensure correct connections to the control board. Replace damaged components if necessary.

Q: What should I do if the smoker produces excess or discolored smoke?
A: Check for issues such as high ambient temperature, lack of airflow through the burn pot, poor fuel quality, or obstructions in the feed system. Clean and maintain components accordingly.

Documents / Resources

[Pit Boss P7-340 Controller Temp Control Program Setting](#) [pdf] Instructions
P7-340, P7-540, P7-700, P7-1000, P7-340 Controller Temp Control Program Setting, P7-340, Controller Temp Control Program Setting, Control Program Setting, Program Setting

References

- **[User Manual](#)**