

# DIGITAL PRO CONTROLLER BAC-365

## INSTALL INSTRUCTIONS

Replaces MPNs: BAC365, KIT0746, KIT0747, KIT0166, BAC288, KIT0330

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### Before Installing

- **ALWAYS** unplug the unit before beginning any work
  - Allow the unit to cool completely if recently used
  - Work in a well-lit area with proper tools
  - Ensure there are no pellets in the hopper assembly
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### Installation Steps

IMPORTANT: Before attempting to remove or install the Control, ensure the Switch/Dial is in the OFF position and the Power Cord is disconnected from the electrical outlet. Even with the Switch/Dial off, electricity is still present at the Control. Failure to disconnect the Power Cord could result in personal injury from electrical shock and/or irreparable damage to the Control.

#### Removing the Existing Smoker Control:

1. Ensure the Switch/Dial is in the OFF position. Disconnect the Power Cord from the electrical outlet.
2. Disconnect the wiring from the Smoker Control by separating the 4 Molex Connectors found on the underside of the Pellet hopper.
3. Remove the two screws securing the Smoker Control to the Pellet Hopper. Save these screws for later use with the Digital Control.
4. Carefully remove the Smoker Control through the opening in the front of the Pellet Hopper, adjusting the angle if necessary. Save the Smoker Control in case it needs to be reinstalled temporarily.

#### Installing the RTD:

1. Open the Door and remove the Porcelain Grill and Grease Drain Pan to provide access to the left side of the Grill.

2. Carefully cut the cable tie securing the RTD Wires to the RTD. Remove the Screw and Lock Nut from the RTD mounting bracket if attached.
3. Thread the RTD Wires through the center hole of the RTD Grill Filler and then through the small hole in the left end of the Grill. Continue until the lower end of the RTD can be inserted into the RTD Grill Filler.
4. Mount the RTD to the RTD Grill Filler using the 1/2" long Screw and the Lock Nut. Tighten to secure the RTD.
5. Run the RTD Wires through the space between the end of the Grill and the Pellet Hopper, then feed the Wires up through the opening for the Control.

### **Wiring and Mounting the Digital Control:**

1. Locate the Green Terminal Block on the back of the Digital Control. Using a small screwdriver, loosen the screws to open the clamping jaws.
2. Insert a bare wire end of one RTD Wire into the clamping jaws of the Terminal Block. Tighten the screw to secure the wire. Repeat for the other wire.
3. Feed the wiring from the Digital Control into the opening in the Pellet Hopper.
4. Carefully insert the Digital Control into the opening in the Pellet Hopper, adjusting the angle as needed.
5. Using the saved screws, attach the Digital Control to the Pellet Hopper without over-tightening.
6. Connect the Molex Connectors according to the color coding on the Digital Control Wiring Diagram. Coil any excess RTD Wire and secure it with a cable tie or twist tie, ensuring no wires interfere with the fan blades on the Draft Inducer Fan or the Auger Drive Motor.
7. Replace the Grease Drain Pan and the Porcelain Grill. Connect the Power Cord to an appropriate, grounded electrical outlet.

### **Replacement on Older Model Grills:**

1. Loosen the screws on the green terminal block connector on the back upper right corner of the controller.

2. Insert the RTD wire through the cutout for the control and connect it to the green terminal block, tightening the screws.
3. Insert the wires for the control into the cutout, angling the control to clear the fuse holder. Slide the control to the left until the fuse holder clears the cutout.
4. Insert the retaining screws into the holes on the faceplate of the control and tighten.
5. Connect the Molex connectors according to the wiring diagram.

## **How to Operate**

### **Initial Firing Instructions:**

1. Open the Door and remove the Porcelain Grill, Grease Drain Pan, and Heat Baffle.
2. Ensure the Switch is OFF and the Dial Knob is in the OFF/SHUT DOWN CYCLE position. Plug the Power Cord into an appropriate, grounded electrical outlet.
3. Open the Pellet Hopper Lid, check for foreign objects, turn the Switch to ON, and set the Dial Knob to Smoke. Confirm the Auger is turning and feel air movement from the Draft Inducer Fan.
4. Fill the Pellet Hopper with TRAEGER BBQ PELLETS. Turn the Switch to ON, set the Dial Knob to HIGH, and allow Pellets to travel from the Pellet Hopper to the Firepot. Turn the Switch OFF and set the Dial Knob to OFF/SHUT DOWN CYCLE when Pellets begin to fall into the Firepot.
5. Turn the Switch to ON and set the Dial Knob to SMOKE. Let the Pellets come to full flame. Turn the Switch OFF and set the Dial Knob to OFF/SHUT DOWN CYCLE. Let the Grill cool down.
6. Line the Grease Drain Pan with heavy-duty aluminum foil, ensuring the edges and ends of the foil are tight against the bottom of the Grease Drain Pan. Reposition the Heat Baffle, Grease Drain Pan, and Porcelain Grill.
7. With the Door open, turn the Switch to ON and set the Dial Knob to SMOKE. Close the Door and preheat for approximately 10 minutes before placing food in the Grill.

8. Turn the Temperature Dial to HIGH and run for 45 minutes with the Door closed before cooking any food.

### **Thermostat Control Functions:**

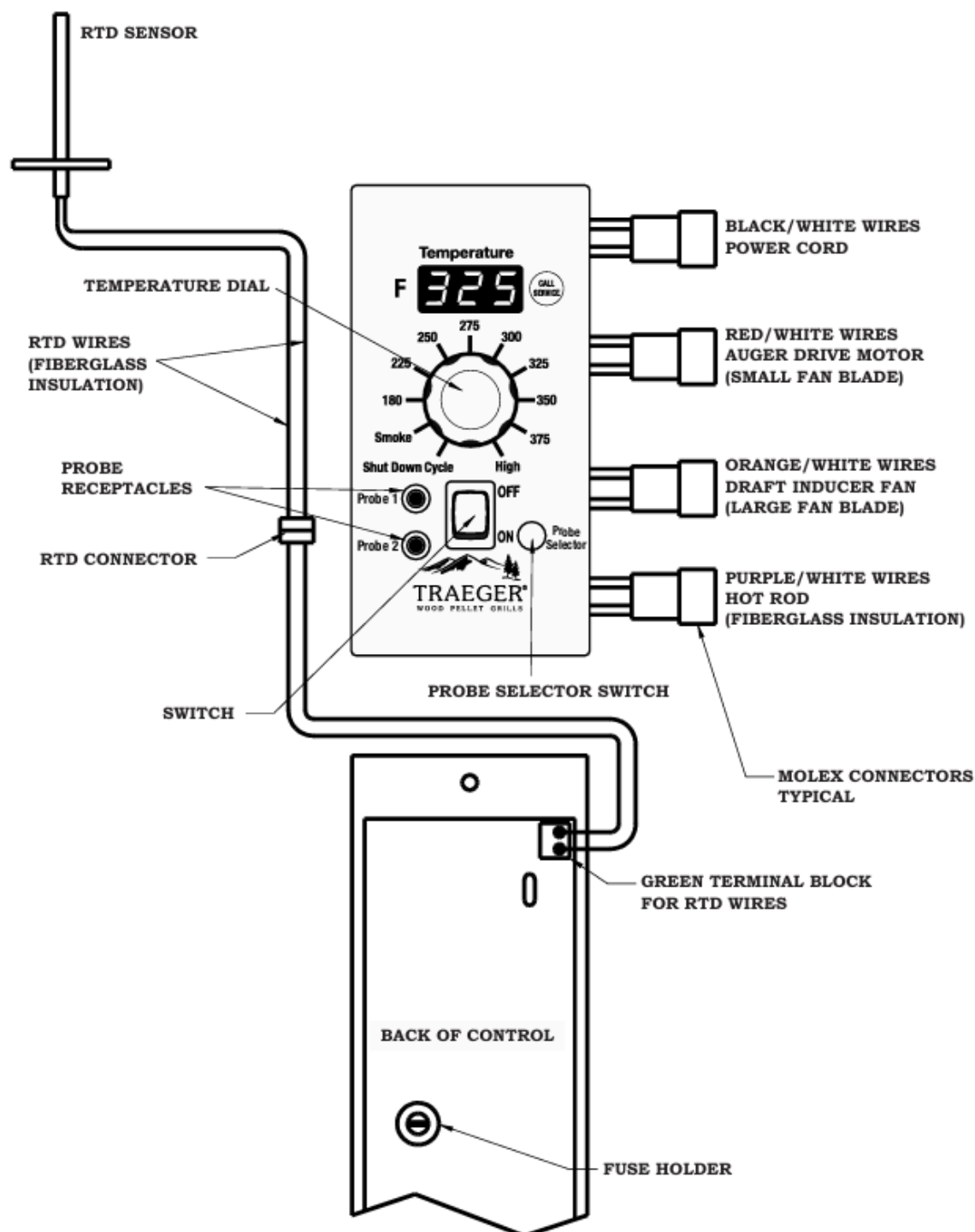
- P Settings Adjustment: Contact customer service before adjusting.
- Access Function: Locate the small hole on the faceplate of the digital controller next to the red digital display. Turn the controller knob to the 225 setting. Use a small screwdriver or pointed object to depress the micro switch inside the hole.
- P Setting Range: The factory default is P-2. The range is P-0 to P-5 (do not exceed P-5). Each setting change adjusts the Auger motor off time.
- Monitor Temperature: Ensure the temperature remains above 160 degrees F while “Smoking” to avoid fire loss in the firepot. If the fire goes out, turn the controller OFF and follow the recovery process before restarting the Grill.

### **Wire Color Index**

- Black/White Wires: connects to Power Cord
- Red /White Wires: connects to Auger Drive Motor
- Orange/White Wires: connects to the Draft Inducer Fan
- Purple/White Wires: connects to the Hot Rod Igniter



## Wiring diagram



## Post-Installation Check

- Verify all connections are secure
  - Ensure all wiring is not in proximity of moving parts
  - Test motor operation before closing panels
  - Check for any unusual noises or vibrations
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## Support

If you encounter any issues during installation, consult your owner's manual or contact technical support via our [contact form](#).