

CONTROLLER 70120

INSTALLATION INSTRUCTIONS

Replaces MPNs: 70120, 80102, AC03P3-120V

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
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Installation Steps

1. Disconnect Power

- Ensure the unit is completely cooled down and drained of power.
- Unplug the grill from the power source.

2. Access the Unit

- Locate the controller on the grill. The igniter is typically mounted inside on the hopper.
- Carefully remove the wiring access panel on the hopper by removing the screws and setting them aside to access the wiring.
 - You may need to unfasten the controller or unfasten the hopper from the burn box assembly for easier access.

3. Disconnect Wiring

- Before disconnecting anything, take clear photos of all wiring connections from multiple angles. This is the single best way to avoid mistakes during reassembly.
- Carefully cut any zip ties that secure the wiring.
- Label each connector with masking tape and a marker as you remove it.

- Unplug all wiring leads connected to the controller, including any leads connected directly to the board via terminal block.
 - **Note:** Always pull on the connector body, never on the wires themselves, pulling on wires can damage the connector or break the crimp. For leads connected to the terminal block, loosen the set screw on the block to free the connector.

4. Remove Old Controller

Proceed to remove the mounting screws from the controller if not already removed prior and pull the controller off the hopper.

5. Install New controller

- Position the new controller near the mounting area.
- Pull the wiring through the mounting hole.

6. Connect Wiring

- Using the reference photos and labels from Step 3, plug the new controller wire leads into the wiring connections as follows:
 - The Orange & White Wire connects to the draft fan. The wire may alternatively be yellow colored instead on some units.
 - The Red & White Wire connects to the auger motor. The wire may alternatively be green colored instead on some units.
 - The Purple & White Wire connects to the igniter (hot rod).
 - The Black & White Wire connects to the power cord.
 - The RTD temperature probe leads need to be inserted into the terminal block on the back of the controller and secured with set screws.
 - Refer to the Diagrams on pages 4 and 5 for details.
- Ensure the connector is fully seated, you should feel or hear it click into place. A loose connection is the most common cause of post-installation issues.

7. Connect Power

- Install and fasten the hopper to the burn box assembly if removed prior.
 - Fasten the controller to the hopper with screws.
 - Secure any and all loose wiring with zip ties.
 - Replace the hopper wiring access panel and secure it with the screws removed in Step 2.
 - Plug the grill's power cord into the power source.
 - Your new controller is installed and ready to use.
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Post-Installation Check

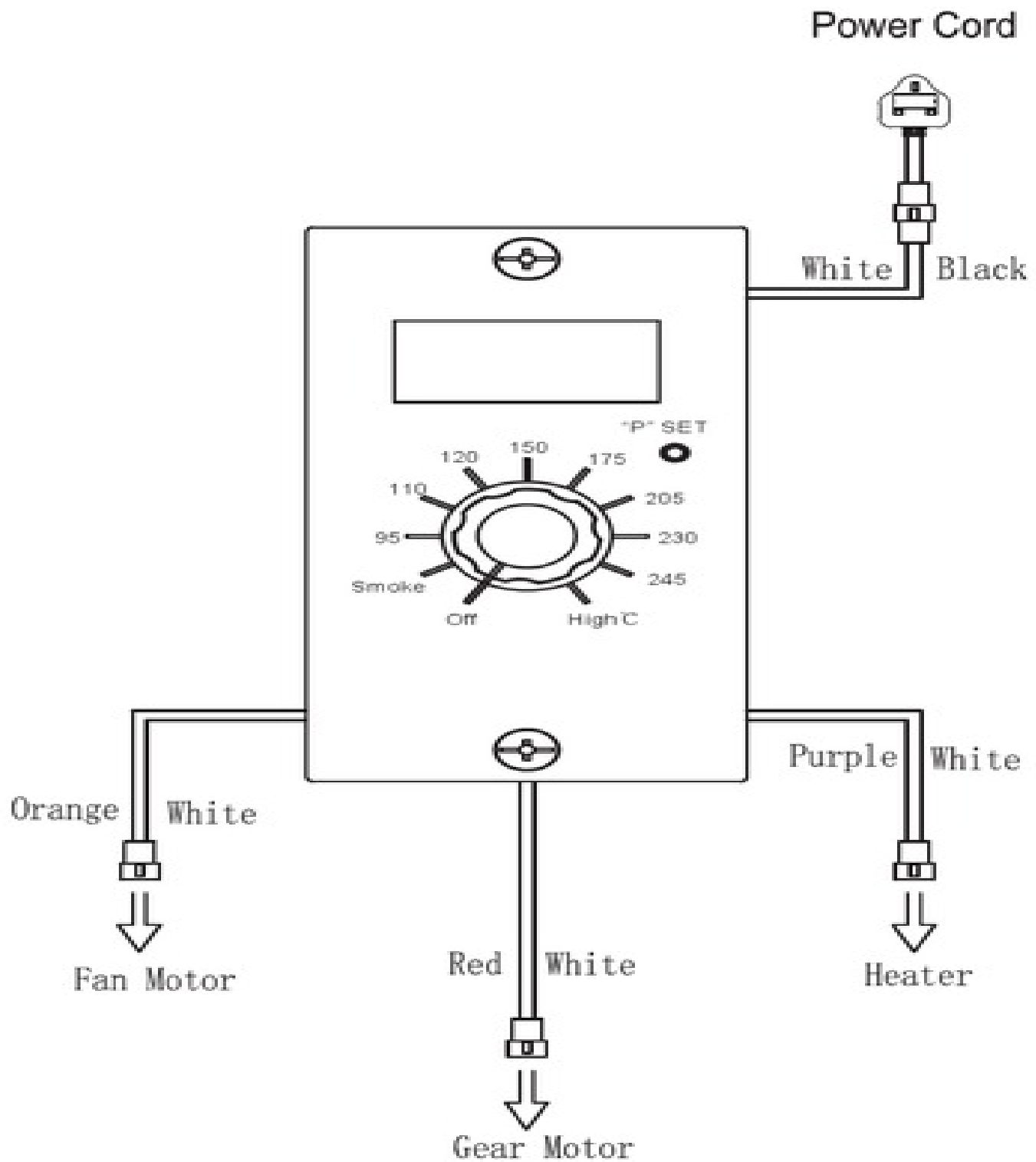
- Verify all connections are secure
 - Test controller operation before final grill assembly.
 - Ensure all wiring connections are secured and not in the way of any moving parts such as fan blades.
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Support

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

Diagram

General wiring



Pit Boss Wiring

