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Quadra-Fire SRV7000-704

Quadra-Fire 3 Speed Control Box (SRV7000-704) Instruction Manual

Model: SRV7000-704

1. PRODUCT OVERVIEW

This document provides instructions for the Quadra-Fire 3 Speed Control Box (SRV7000-704), a replacement part designed for various Quadra-Fire pellet stoves and inserts. This control box manages the 3-speed operation of your pellet appliance. It is compatible with the following models:

- CB1200 Pellet Stoves and Inserts
- Castile Pellet Stoves and Inserts
- Contour Pellet Stoves
- Santa-Fe Pellet Stoves and Inserts

The control box is made of high-quality components and PCB boards, ensuring corrosion resistance and a long service life. It is designed to fit the initial design specifications of compatible models.



Image: The Quadra-Fire 3 Speed Control Box (SRV7000-704) in its packaging, showing the clear plastic casing and internal circuit board.

2. SAFETY INFORMATION

WARNING: Always disconnect power to the appliance before performing any installation, maintenance, or troubleshooting. Failure to do so may result in electric shock, injury, or death.

Ensure the appliance is cool to the touch before beginning any work. Wear appropriate personal protective equipment (PPE) such as gloves and eye protection.

This is a serialized item. The serial number is recorded before shipping. Ensure the original serialized control box is returned for any refund or warranty claim. Tampering with the seal will void the warranty.

3. WHAT'S INCLUDED

- 1x Quadra-Fire 3 Speed Control Box (SRV7000-704)
- 1x Thermocouple Grounding Kit (812-4980)
- 1x Instruction Manual

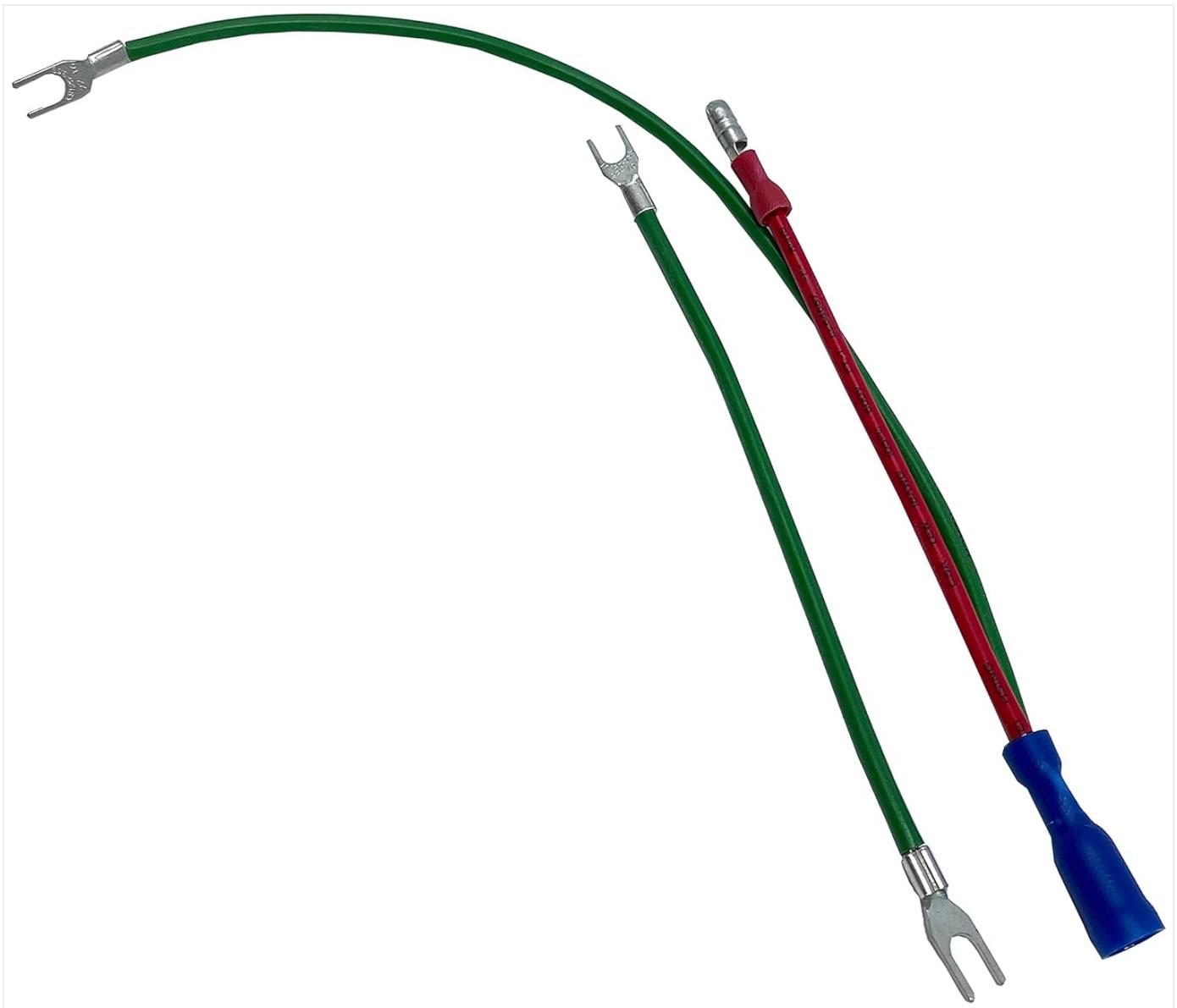


Image: The included thermocouple grounding kit, consisting of red and green wires with connectors.

4. INSTALLATION AND SETUP

The installation of the control board is straightforward. However, it is crucial to set up the control board correctly based on your specific stove model before installation.

4.1. Pre-Installation Steps

- 1. Disconnect Power:** Ensure your pellet stove is unplugged from the wall outlet and has completely cooled down.
- 2. Access Control Box:** Locate and open the access panel to the control box area on your stove.
- 3. Remove Old Control Board:** Carefully disconnect all wires from the old control board and remove it. Note the orientation and connections for reassembly.
- 4. Grounding Kit:** If your older unit does not have proper grounding for the thermocouple, use the included thermocouple grounding wires. The instructions will provide specific guidance for connecting these wires to ensure proper grounding.

Video: A detailed guide on installing and setting up the Quadra-Fire 3 Speed Control Board, including model-specific dial adjustments and blink code interpretations.

4.2. Setting the Model Dial

The new control board features a small plastic dial that must be set to the correct position corresponding to your stove model. This

dial has settings from 0 to 7. A small flathead or precision screwdriver can be used to adjust this dial.



Image: Top view of the control box, highlighting the small plastic dial used for model-specific settings.

- **Setting 0 (Diagnostic Mode):** The control board comes from the factory set at 0. This is a diagnostic mode used for testing components. The stove will not operate correctly in this mode.
- **Settings 1 & 2:** Used for **1200 Series** (1200 Freestanding and 1200 Insert).
- **Settings 4 & 5:** Used for **Contour** models.
- **Settings 6 & 7:** Used for **Santa Fe** (Freestanding and Insert) and **Castile** (Freestanding and Insert) models.

The higher number in each pair (e.g., 2 for 1200 series, 5 for Contour, 7 for Santa Fe/Castile) provides a 10% increase in fuel feed rate. This adjustment can be useful if you are burning denser or longer pellets and require more fuel in the firepot. For most standard pellets and installations, the lower setting (e.g., 1, 4, 6) is usually correct.

4.3. Post-Installation Verification

After setting the dial and installing the control board, plug the stove back into the wall. The control board will emit a series of blinks to indicate correct setup:

- **Blue Blink:** A blue blink sequence indicates that the control board is set up correctly based on the model.
- **Green Light:** The internal light will be green when the thermocouple has reached 200°F.
- **Red Light:** The internal light will turn red once the thermocouple has reached 600°F.
- **Amber Blink:** If there is an issue with the thermocouple, the internal light will turn amber and flash three times, repeating the process. If you observe this, perform a physical inspection of the thermocouple.

Ensure the main electronic strip (receptor/indicator) on the control board is securely plugged into the junction box. It should slide in easily with a gentle wiggle until it locks into place. Do not force it.

5. OPERATING PRINCIPLES

The 3 Speed Control Box regulates the operation of your pellet stove by controlling the auger motor and fans based on temperature readings from the thermocouple. Once installed and correctly configured, the control box will manage the pellet feed and fan speeds to maintain optimal burning conditions.

Refer to your specific pellet stove's owner's manual for detailed operating instructions, including starting, stopping, and adjusting heat settings, as these are managed by the stove's primary controls which interface with this control box.

6. MAINTENANCE

- **Regular Inspection:** Periodically inspect the control box and its connections for any signs of wear, damage, or loose connections.
- **Keep Dry:** Ensure the control box area remains dry and free from moisture to prevent damage to electronic components.
- **Cleanliness:** Keep the area around the control box free from dust, debris, and pellet fines, which can interfere with its operation or cause overheating.
- **Thermocouple Check:** Regularly check the thermocouple for proper placement and any buildup that might affect its temperature readings.

7. TROUBLESHOOTING

- **Stove Not Operating Correctly:**
 - Verify the model dial setting on the control board matches your stove model (refer to Section 4.2).
 - Check for the blue blink sequence after plugging in the stove to confirm correct setup.
- **Amber Blinking Light (Thermocouple Issue):**
 - If the internal light flashes amber three times, it indicates a thermocouple issue.
 - Perform a physical inspection of the thermocouple. Ensure it is securely in place and properly positioned over the firepot.
 - Check the thermocouple wires for any damage or loose connections.
 - If the issue persists after inspection, the thermocouple itself may need replacement.
- **No Power/Intermittent Operation:**
 - Ensure the stove is securely plugged into a working outlet.
 - Check all connections to the control board and within the junction box for tightness.
 - Verify that the control board is fully seated in its receptacle.

If troubleshooting steps do not resolve the issue, consult a qualified technician or contact Quadra-Fire customer support.

8. SPECIFICATIONS

Brand	Quadra-Fire
Model Number	SRV7000-704
UPC	652174676262
Product Dimensions	6 x 3 x 6 inches
Item Weight	8 ounces
Material	Plastic (Control Box Casing)

9. WARRANTY AND SUPPORT

Warranty: The control box is a serialized item. The warranty is void if the tamper seal is broken. Ensure the original serialized control box is returned for any warranty claims.

For further assistance, technical support, or warranty inquiries, please refer to your original purchase documentation or contact Quadra-Fire customer service directly.

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