

JGBC20BEH1WH

Gas Oven Range Ignitor User Manual

Model: JGBC20BEH1WH

Brand: Generic

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your new Gas Oven Range Ignitor. This component is designed to replace original ignitors in various GE, Hotpoint, and Kenmore gas oven ranges, ensuring proper ignition of the oven burner.

Please read this manual thoroughly before attempting any installation or repair. Retain this manual for future reference.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Always disconnect power to the appliance at the circuit breaker or fuse box before attempting any service or repair.
- Turn off the gas supply to the appliance before beginning any work.
- Gas appliances should only be serviced by qualified personnel. If you are unsure about any step, consult a certified technician.
- Wear appropriate personal protective equipment, such as gloves and eye protection, during installation.
- Ensure all gas connections are leak-free after reassembly. Use a soap and water solution to check for bubbles.
- Do not bypass any safety devices.

3. PRODUCT OVERVIEW

The Gas Oven Range Ignitor is a critical component responsible for igniting the gas in your oven's burner. It operates by heating up to a high temperature, which then ignites the gas flowing from the burner.



Figure 3.1: Main view of the Gas Oven Range Ignitor. This image shows the complete ignitor assembly, including the ceramic heating element, metal bracket, and electrical wires with connectors.

Key Components:

- **Ceramic Heating Element:** The part that glows red hot to ignite the gas.
- **Metal Mounting Bracket:** Secures the ignitor within the oven.
- **Electrical Wires:** Connects the ignitor to the oven's electrical system.
- **Wire Nuts:** Provided for secure electrical connections.

4. SETUP AND INSTALLATION

Note: Always refer to your specific oven model's service manual for detailed instructions and safety precautions. The following is a general guide.

Tools You May Need:

- Screwdriver (Phillips and/or Flathead)
- Nut Driver or Socket Wrench
- Wire Strippers/Cutters (if needed for wire nuts)
- Multimeter (for testing, optional)

Installation Steps:

1. **Disconnect Power and Gas:** Before starting, ensure the oven's power supply is disconnected at the circuit breaker

and the gas supply valve is turned off.

2. **Access the Ignitor:** Depending on your oven model, you may need to remove the oven door, bottom panel, and/or burner assembly to access the ignitor.
3. **Locate the Old Ignitor:** The ignitor is typically mounted near the gas burner tube.
4. **Disconnect Wiring:** Carefully disconnect the electrical wires leading to the old ignitor. Note how they are connected. You may need to cut the wires if they are hard-wired, or simply unplug a connector.



Figure 4.1: Close-up of the electrical connector. This connector ensures a secure and proper electrical connection to the oven's wiring harness.

5. **Remove Old Ignitor:** Unscrew any mounting screws holding the old ignitor in place and carefully remove it.
6. **Install New Ignitor:** Mount the new ignitor in the same position as the old one, ensuring it is securely fastened.



Figure 4.2: Bottom view of the ignitor showing mounting holes. These holes are used to secure the ignitor to the oven's internal structure.

7. **Connect Wiring:** Connect the new ignitor's wires to the oven's wiring. If using wire nuts, ensure a tight and secure connection.



Figure 4.3: Included wire nuts for electrical connections. These nuts provide a safe and insulated connection for the ignitor's wiring.

8. **Reassemble Oven:** Reinstall any panels or components that were removed.
9. **Restore Power and Gas:** Turn on the gas supply and then restore electrical power to the oven.
10. **Test Operation:** Test the oven to ensure the ignitor is functioning correctly and the burner ignites properly. Listen for the click of the gas valve opening and observe the ignitor glowing before ignition.

5. FUNCTIONALITY

The gas oven range ignitor serves as both an ignition source and a safety device. When the oven is turned on, the ignitor receives electrical current and begins to heat up. As it reaches a sufficient temperature (typically around 1800-2500°F), its electrical resistance drops, allowing a larger current to flow. This increased current signals the gas valve to open,

releasing gas to the burner. The hot ignitor then ignites the gas. If the ignitor does not reach the proper temperature, the gas valve will not open, preventing unignited gas from accumulating, thus acting as a safety interlock.



Figure 5.1: Close-up view of the ignitor's ceramic heating element. This element is designed to glow intensely when energized, providing the necessary heat for gas ignition.

6. MAINTENANCE

The gas oven range ignitor is a wear item and generally does not require routine maintenance. However, periodic inspection can help identify potential issues before they lead to complete failure.

- **Visual Inspection:** During any oven cleaning or service, visually inspect the ignitor for cracks, discoloration, or signs of excessive wear. A healthy ignitor should glow brightly and consistently.
- **Keep Clean:** Ensure the area around the ignitor is free from food debris or grease buildup, which can interfere with its operation.
- **Professional Check:** If you suspect an issue, it is recommended to have a qualified appliance technician inspect the ignitor and oven system.

7. TROUBLESHOOTING

If your oven is experiencing ignition problems, the ignitor is a common component to check. Always ensure power and gas are disconnected before performing any checks.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Oven not heating or heating slowly	Weak or failing ignitor. Ignitor not drawing enough current to open gas valve.	Test ignitor resistance with a multimeter (refer to oven service manual for correct values). Replace if out of specification or if it glows dimly.
Oven burner not igniting, but gas is present	Ignitor not glowing or glowing intermittently.	Check electrical connections to the ignitor. Ensure ignitor is securely mounted. Replace ignitor if it does not glow at all or glows very weakly.
Oven burner ignites, then goes out	Ignitor not maintaining sufficient temperature or current to keep gas valve open.	Replace the ignitor.

If troubleshooting steps do not resolve the issue, it is recommended to contact a qualified appliance repair technician.

8. SPECIFICATIONS

This Gas Oven Range Ignitor is a direct replacement part designed for compatibility with a wide range of GE, Hotpoint, and Kenmore gas oven models.

- **Part Type:** Gas Oven Range Ignitor
- **Model Number:** JGBC20BEH1WH
- **Manufacturer:** Generic
- **Product Dimensions:** 1 x 1 x 1 inches (Approximate)
- **Country of Origin:** China
- **Included Components:** Gas Oven Range Ignitor, Wire Nuts
- **ASIN:** B0F1C6MLVG
- **Date First Available:** March 12, 2025

Compatible Models (Partial List - Refer to Product Description for Full List):

- **GE Models:** PGS920SEF5SS, PGB980SET1SS, PGB920SEF1SS, JGBS19DEN4WW, JGB630DEF1BB, JGB650DEF2BB, JGBS22BEA2AD, JGBC20BEH1WH, and many more.
- **Hotpoint Models:** RGB525ET4WW, RGB528GEV3AD, RGB535GEV4AD, RGB628GEV4AD, RGB745WEH3WW, RGB530DEP1WW, and many more.
- **Kenmore Models:** 36272491990, 36272498990, 36475698890, 36273220205, 36273221201, and many more.

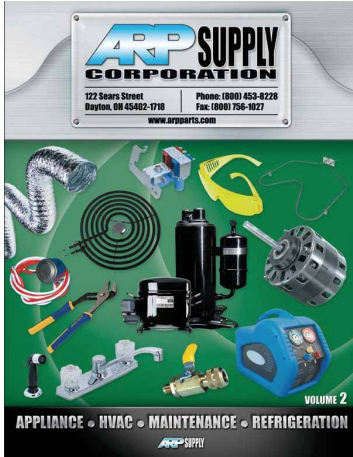
For a comprehensive list of compatible models, please refer to the detailed product description provided at the point of purchase or online listing.

9. WARRANTY AND SUPPORT

This product is typically covered by a standard return policy. For specific details regarding warranty coverage, returns, or exchanges, please refer to the retailer's policy where the product was purchased. As a generic replacement part, direct manufacturer support may be limited.

- **Return Policy:** Generally, a 30-day refund/replacement policy is offered by the seller. Please check your purchase details for exact terms.
- **Technical Assistance:** For installation or troubleshooting assistance beyond this manual, it is recommended to consult a qualified appliance repair technician or refer to your oven's specific service manual.

Documents - JGBC20BEH1WH – JGBC20BEH1WH



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