

## Supco SGR403

# Supco SGR403 Gas Range Igniter Instruction Manual

## 1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Supco SGR403 Gas Range Igniter. The SGR403 is a direct replacement igniter designed for various gas stoves and ranges, ensuring reliable ignition of the oven burner.

The Supco SGR403 is engineered to meet or exceed original equipment manufacturer (OEM) specifications, preventing issues such as overdriving the gas valve. It features high-temperature components, including ceramic wire connectors, a stainless steel shield, and MGT wire leads, contributing to its durability and extended service life.

Key features include:

- Direct replacement for numerous OEM part numbers (e.g., GR403, WB2X9154, 5304401265).
- Designed for use with 3.2 to 3.6 amp rated gas safety valves.
- Constructed with all high-temperature materials for longevity.
- CSA and UL Approved for safety.

## 2. SAFETY INFORMATION

**WARNING:** Installation and service of gas appliances should be performed by a qualified installer, service agency, or gas supplier. Failure to follow these instructions could result in fire or explosion, causing property damage, personal injury, or death.

- Always disconnect the appliance from the electrical power supply and turn off the gas supply before attempting any installation, maintenance, or repair.
- Ensure adequate ventilation when working with gas appliances.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- Check for gas leaks after installation using a soap solution; never use an open flame.
- Do not bypass any safety devices.
- If you smell gas, immediately evacuate the area, turn off the gas supply, and contact your gas provider.

## 3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- 1 x Supco SGR403 Gas Range Igniter Unit
- 1 x Instruction Guide (this document)
- Wire nuts for splicing (may be included)
- Mounting bracket (may be included, as shown in image)



Image 1: The Supco SGR403 Gas Range Igniter, featuring its cylindrical metal housing, ceramic base, and two insulated wire leads. A separate metal mounting bracket is also visible, designed for securing the igniter in place.

## 4. INSTALLATION

The following steps provide a general guide for replacing a gas range igniter. Specific procedures may vary depending on your appliance model. Refer to your appliance's service manual for detailed instructions.

1. **Safety First:** Turn off the gas supply to the range and disconnect the appliance from the electrical power outlet.
2. **Access the Oven Interior:** Open the oven door. Depending on your model, you may need to remove the oven door by lifting it off its hinges when partially open. Remove the bottom storage drawer if

present.

3. **Remove Oven Floor:** Locate and remove the screws securing the oven floor panel (typically at the back). Lift the rear of the panel and slide it out.
4. **Locate Burner Assembly:** Identify the oven burner tube and the igniter attached to it.
5. **Disconnect Old Igniter:** Carefully disconnect the wiring from the old igniter. Note the routing of the wires. Remove the screws or nuts securing the old igniter to the burner assembly.
6. **Install New Igniter:** Attach the new Supco SGR403 igniter to the burner assembly using the provided hardware or the original hardware if compatible. Ensure it is securely mounted.
7. **Connect Wiring:** The SGR403 igniter typically comes with one end having a terminal and the other a bare wire. You may need to cut the connector from your old igniter's wire and splice it to the bare wire of the new igniter using the included ceramic wire nuts. Ensure all connections are secure and insulated.
8. **Reassemble:** Carefully reverse the disassembly steps. Reinstall the burner assembly, oven floor, and oven door.
9. **Restore Power and Gas:** Reconnect the appliance to the electrical power supply and turn on the gas supply.
10. **Test for Leaks:** Before operating, apply a soap and water solution to all gas connections. If bubbles appear, there is a leak. Turn off the gas immediately and tighten connections or seek professional assistance.
11. **Test Operation:** Turn on the oven to a bake setting and observe the igniter. It should glow red and then ignite the gas within a few seconds.

## 5. OPERATION

---

The Supco SGR403 Gas Range Igniter functions as a safety device and an ignition source. When the oven is set to bake or broil, electrical current flows through the igniter, causing it to heat up and glow. This glowing igniter serves two purposes:

- It heats a bimetal switch (part of the gas safety valve) to a specific temperature, which then allows the gas valve to open.
- Once the gas valve opens, the hot igniter provides the necessary heat to ignite the gas flowing from the burner.

A properly functioning igniter will glow brightly and ignite the gas smoothly. If the igniter glows but does not ignite the gas, or if it takes an unusually long time, it may indicate a weakening igniter or other issues with the gas system.

## 6. MAINTENANCE

---

The Supco SGR403 igniter is designed for long-term reliability and generally requires minimal maintenance. However, regular inspection of your oven's components can help ensure safe and efficient operation.

- **Visual Inspection:** Periodically inspect the igniter for any visible damage, cracks, or excessive carbon buildup.
- **Cleanliness:** Keep the oven interior clean to prevent grease or food debris from accumulating on the igniter, which could affect its performance.
- **Professional Check:** Consider having your gas appliance professionally inspected annually to ensure all components, including the igniter and gas valve, are functioning correctly.

## 7. TROUBLESHOOTING

---

If your oven is not igniting or experiencing issues, consider the following common troubleshooting steps related to the igniter:

- **Oven Not Heating / No Ignition:**
  - **Igniter Not Glowing:** Check if the igniter receives power. Ensure the gas supply is on and the appliance is plugged in. If no glow, the igniter may be faulty or there's a wiring issue.
  - **Igniter Glows, But No Gas Ignition:** If the igniter glows for an extended period (more than 30-60 seconds) without igniting the gas, it may be weak. A weak igniter cannot draw enough current to open the gas safety valve or generate sufficient heat to ignite the gas. This is a common failure mode for igniters.
- **Slow Ignition:** If the oven takes a long time to ignite, the igniter may be starting to fail and is not heating up quickly enough.
- **Intermittent Ignition:** This could indicate a loose connection, a failing igniter, or an issue with the gas valve.

If troubleshooting does not resolve the issue, it is recommended to consult a qualified appliance technician.

## 8. SPECIFICATIONS

---

<b>Brand</b>	Supco
<b>Model Number</b>	SGR403
<b>Part Number</b>	SGR403
<b>Replaces OEM Part Numbers</b>	GR403, WB2X9154, 5304401265, 309155, 3196447
<b>Igniter Length</b>	3.5 inches (approximate)
<b>Compatibility</b>	Used with 3.2 - 3.6 amp rated gas safety valves
<b>Dimensions (Product)</b>	2.8 x 8.2 x 2.7 inches
<b>Item Weight</b>	1 pound
<b>Included Components</b>	Unit, Instruction Guide

## 9. WARRANTY AND SUPPORT

---

For information regarding product warranty or technical support, please refer to the official Supco website or contact their customer service directly. Keep your purchase receipt as proof of purchase.