

790.9731941 790.9732341

Instruction Manual for Generic Range Burner Infinite Switch Control

Model Series: Kenmore 790.97XXX Series

1. PRODUCT OVERVIEW

This document provides instructions for the installation, operation, and maintenance of the Generic Range Burner Infinite Switch Control. This component is designed to regulate the electrical power supplied to a surface burner, enabling precise adjustment of heat settings during cooking operations.

The infinite switch manages the current flow to the burner element, facilitating gradual temperature changes for various cooking tasks. It is constructed for straightforward installation and removal, supporting routine replacement without specialized tools.

Key Functionality:

- Controls electrical power to the surface burner.
- Allows adjustment across a range of heat settings.
- Regulates heat output by managing current flow.
- Supports gradual temperature changes for cooking.
- Designed for stable surface burner operation and responsive heat adjustment.

2. COMPATIBILITY

This infinite switch is compatible with a wide range of Kenmore models. Please verify your specific model number against the list below to ensure compatibility.

Compatible Kenmore Models:

- 790.97212411, 790.97212412, 790.97213410, 790.97213411, 790.97213412, 790.97219410, 790.97219411, 790.97219412, 790.97223410, 790.97223411, 790.97223412
- 790.97312410, 790.97312411, 790.97312412, 790.97313410, 790.97313411, 790.97313412, 790.97313413, 790.97319410, 790.97319411, 790.97319412, 790.97323410, 790.97323411, 790.97323412
- 790.97403410, 790.97403411, 790.97413410, 790.97413411, 790.97422900, 790.97422901, 790.97423900, 790.97423901, 790.97424900

3. SAFETY INFORMATION

WARNING: Before attempting any installation or repair, ensure the power supply to the appliance is completely disconnected at the circuit breaker or fuse box. Failure to do so can result in serious injury or death from electrical shock.

- Always wear appropriate personal protective equipment (PPE), such as gloves and safety glasses.
- If you are unsure about any part of the installation process, consult a qualified appliance technician.
- Do not operate the appliance with damaged or improperly installed components.
- Ensure all connections are secure and properly insulated after installation.

4. SETUP AND INSTALLATION

This section outlines the general steps for replacing a range burner infinite switch. Specific procedures may vary slightly depending on your range model. Refer to your appliance's service manual for detailed instructions if available.

4.1 Tools Required

- Screwdriver (Phillips and/or Flathead)
- Nut driver or wrench (if applicable)
- Needle-nose pliers
- Wire strippers (if new terminals are needed)
- Multimeter (for testing, optional but recommended)

4.2 Installation Steps

1. **Disconnect Power:** Turn off the circuit breaker supplying power to the range. Verify power is off using a voltage tester.
2. **Access the Control Panel:** Depending on your range model, you may need to remove the back panel, top panel, or front control panel to access the infinite switches. This usually involves removing several screws.
3. **Identify the Faulty Switch:** Locate the infinite switch corresponding to the burner you are servicing. Note the position and wiring of the existing switch. It is highly recommended to take a photograph of the wiring before disconnecting anything.
4. **Disconnect Wiring:** Carefully disconnect each wire from the old infinite switch. Note that some wires may be color-coded or labeled. If not, ensure your photograph clearly shows their original positions.
5. **Remove Old Switch:** Unscrew or unclip the old infinite switch from its mounting bracket.
6. **Install New Switch:** Position the new infinite switch in the mounting bracket and secure it with screws or clips.
7. **Connect Wiring:** Reconnect the wires to the new infinite switch, ensuring they match the original configuration. Refer to your photograph if necessary. Ensure all connections are firm and secure.
8. **Reassemble Appliance:** Reattach the control panel, back panel, or top panel that was removed in step 2.
9. **Restore Power and Test:** Turn the circuit breaker back on. Test the burner to ensure the new infinite switch functions correctly and allows for proper heat adjustment.



Image 1: Front view of the infinite switch, showing terminals and mounting points. This view helps identify the component and its connection points.



Image 2: Top view of the infinite switch, displaying the control shaft and additional markings. This perspective is useful for understanding how the control knob attaches.

5. OPERATING INSTRUCTIONS

The infinite switch works in conjunction with your range's control knob to regulate the heat of the surface burner. Once installed, its operation is integrated into the standard use of your appliance.

1. **Turn Knob:** Rotate the corresponding burner control knob on your range's control panel.
2. **Select Heat Setting:** Turn the knob from the "OFF" position to the desired heat setting (e.g., LOW, MEDIUM, HIGH, or specific temperature markings). The infinite switch will then deliver the appropriate amount of power to the burner element.
3. **Adjust as Needed:** You can continuously adjust the knob to fine-tune the heat output during cooking. The infinite switch allows for a smooth transition between heat levels.
4. **Turn Off:** Rotate the knob back to the "OFF" position to turn off the burner.

The switch ensures consistent power delivery and responsive heat adjustment, maintaining stable burner function for various cooking needs.

6. MAINTENANCE

The infinite switch is a sealed electrical component and generally does not require routine maintenance. However, proper care of your range can help prolong the life of all its components, including the switch.

- **Keep Clean:** Regularly clean the surface of your range, especially around the control knobs, to prevent grease and food debris from accumulating and potentially interfering with knob movement or switch operation.
- **Avoid Spills:** Be careful to avoid liquid spills directly onto the control panel area, as moisture can damage electrical components.
- **Gentle Operation:** Operate control knobs gently. Excessive force can stress the switch mechanism.
- **Professional Inspection:** If you notice any unusual behavior from your burner (e.g., inconsistent heat, failure to turn on/off), it is advisable to have a qualified technician inspect the appliance.

7. TROUBLESHOOTING

If your range burner is not functioning correctly, the infinite switch may be a contributing factor. Here are some common issues and potential solutions:

Problem	Possible Cause	Solution
Burner does not turn on.	No power to the range; faulty infinite switch; faulty burner element; loose wiring.	Check circuit breaker. Verify switch wiring. Test burner element for continuity. If switch is faulty, replace it.
Burner stays on high heat, no adjustment.	Faulty infinite switch (contacts stuck).	Replace the infinite switch.
Burner only works on certain settings.	Faulty infinite switch (internal contacts worn).	Replace the infinite switch.
Burner heats intermittently.	Loose wiring connection; faulty infinite switch; faulty burner element.	Check and secure all wiring. Test switch and element. Replace faulty component.

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

8. SPECIFICATIONS

Part Number	790.9731941, 790.9732341
Manufacturer	vanlanh (Generic)
ASIN	B0G8DY7YGL
First Available Date	December 18, 2025
Function	Controls electrical power to surface burner for heat adjustment.

9. WARRANTY AND SUPPORT

For specific warranty information regarding this product, please refer to the documentation provided at the time of purchase or contact the seller directly. As this is a replacement part, warranty terms may vary.

For technical support or further assistance, it is recommended to consult a qualified appliance repair professional or refer to the service manual for your specific Kenmore range model.