

Generic Range Stove Burner Infinite Switch User Manual

Model: JB700EJ3ES

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Generic Range Stove Burner Infinite Switch. This component is designed to regulate the heat output of surface burners on compatible GE electric ranges. Please read this manual thoroughly before attempting any installation or repair to ensure safe and correct usage.

2. IMPORTANT SAFETY INFORMATION

WARNING: Risk of Electric Shock. Disconnect power before servicing.

- Always disconnect the power supply to the range/stove before attempting any installation, repair, or maintenance. Failure to do so can result in serious injury or death.
- Installation should only be performed by a qualified technician or a person with experience in appliance repair.
- Wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Ensure all wiring connections are secure and correctly matched according to the appliance's wiring diagram.
- Do not operate the appliance if any parts are damaged or missing.

3. PRODUCT OVERVIEW

The infinite switch controls the power supplied to the surface burner, allowing for variable heat settings from low to high. It typically features a rotating shaft for knob attachment and multiple electrical terminals for connection to the burner element and power supply.



Figure 1: Front view of the infinite switch, showing the control shaft and mounting points. This image displays the primary view of the switch, highlighting its central shaft for knob attachment and the black housing with blue components.



Figure 2: Rear view of the infinite switch, detailing the electrical terminals and specifications (240Vac/15A). This image provides a clear view of the blue rear housing, showing the various numbered electrical terminals and the voltage/amperage ratings.

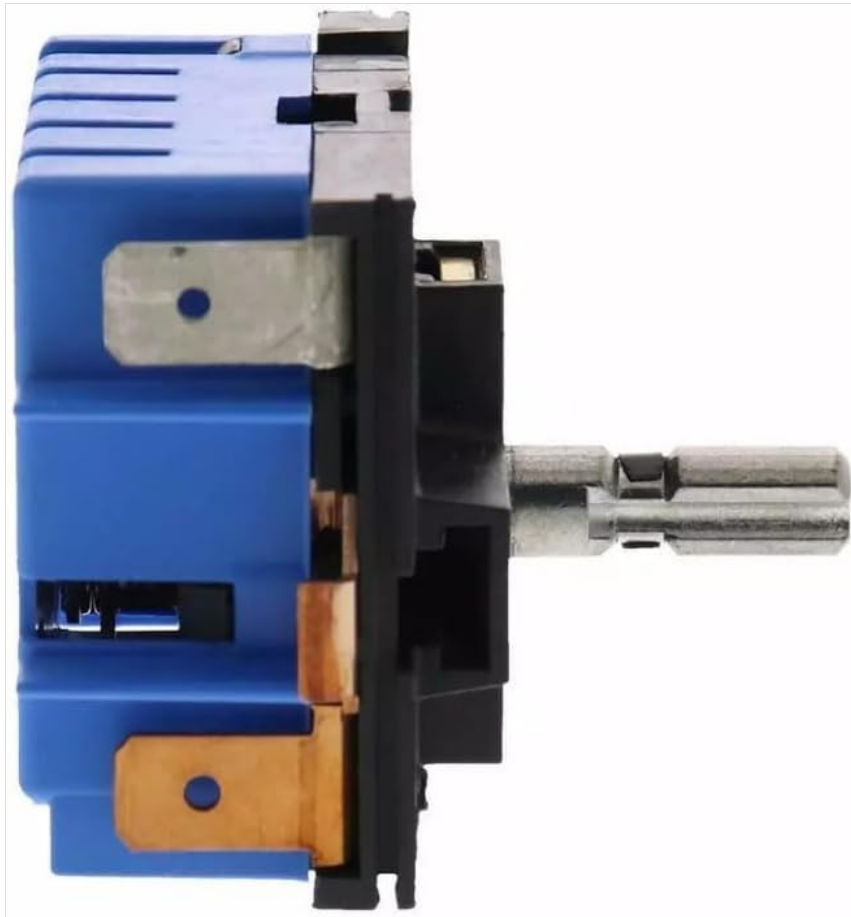


Figure 3: Side view of the infinite switch, illustrating the depth and connection points. This image shows the profile of the switch, emphasizing the shaft's extension and the side-mounted electrical connectors.

4. COMPATIBILITY

This infinite switch is compatible with a wide range of GE electric range models. Please verify your appliance's model number against the list below to ensure proper fit and function. If your model is not listed, consult your appliance's original parts diagram or contact a qualified technician.

Partial List of Compatible GE Models:

- JS645FL2DS, JB735FP2DS, JS760BL3TS, JB755EJ7ES, JBS60RK4SS, JB750SJ7SS, JB860SJ7SS, JB645FK6DS, JB860SJ5SS, JS760FP6DS, JB755BJ6TS, JS645EL1ES, GRF500PV1BB, JB700EJ3ES
- JS760SP5SS, JB655YKBFS, JS760DP6BB, JS760DP3BB, JB755EJ2ES, JB655YK8FS, JB645EK9ES, JB645RK2SS, PB930SJ1SS, JBS60DK5BB, JB655YKCF5, JB645DK9BB, JB755SJ9SS, JS760DL5BB, PB935BP3TS, JB735SP5SS, JB860EJ5ES, JS760DP8WW, JB735SP2SS, JB860DJ7BB, GRF500SV1SS, GRS600AV1ES, PB965BP5TS, JB750FJ5DS, JB700EJ1ES, PB980SJ4SS, JB650DF5BB, JB755SJ2SS, JB750DJ1CC, JB750BJ5TS, JB655SK6SS, JB645FK4DS, JB735FP3DS, JB750DJ7WW, JB755FJ7DS, JB860FJADS, JB645EK6ES, JSS86SP4SS, JB700DJ5BB, JBS60RK3SS, JS760DP4WW, JBS60DK9BB, JBS60DK2BB, JB700SJ2SS, GRS600AV2FS, JS645SL4SS, JS760DL4BB, JB735SP3SS, JB860DJ2WW, JB645RK3SS, JB735EP1ES, JB860FJ6DS, JB655FK8DS, JB860DJ9BB, JS760DP2BB, JBS60DF4BB, JB750DJ2WW, JBS60DK8WW, JB750DJ2CC, JS760EP6ES, JB655FKADS, JB750EJ2ES, JB750SJ9SS, JS645FL3DS, JS760EL4ES, JCB865SJ8SS, JB655FK5DS, JB860EJ7ES, JB755SJ1SS, PB935YP5FS, JB750SJ4SS, JB645FK5DS, JB655DK3BB, JB655DK1CC, JB860EJ8ES, PB935BP6TS, JB645RK5SS, JB655SK5SS, JS760FL4DS, JB655SK7SS, JBS60DF4WW, JS660SL3SS, JBS86EP4ES, JS760FP4DS, JBS60RK9SS, JB645DK8WW, JB860DJ1WW, JBS60DK4BB, JS645SL8SS, JB860BJ5TS, JB655DK4BB, JB755SJ5SS, JB645EK7ES, JB735DP3BB, JS645SL7SS, PB935YP6FS, JB700EJ4ES, JB860FJ7DS, JS760FP1DS, GRS500PV2SS, JB655EK2ES, JB655DK6WW, JB750FJ4DS, JB860DJ3BB, JB645EK1ES, PB965YP5FS, JS760BL4TS, JB645DK4WW, JB700EJ5ES, JB645RK6SS, JSS86SP7SS, JB655YKAF5, PB965BP4TS, JB650DF5WW, JS645EL6ES, JBS86SP2SS, JS760DL5WW, JB755DJ2BB, JS760SL2SS, JB655DK2WW, JB735DP1WW, JB640DF6WW, JBS60DK7BB, JBS60RK8SS, JS760SP2SS, JS760SL3SS, JBS86EP5ES, JB640DF6BB, JB750DJ9WW, JB735DP4WW, JB860DJ7WW, PCB980SJ3SS,

JS645FL7DS, JS645SL6SS, JB860FJ8DS, JB860SJ3SS, GRS60LAV2FS, JB700DJ3BB, JB700SJ3SS, JB700DJ5WW, JS645SL2SS, JB750FJ8DS, JB860DJ6BB, JB750SJ2SS, JS760SL1SS, JB755SJ6SS, JB655DKBWW, PB930SL5SS, JB630RF5SS, JS760FP2DS, JBS60DK5WW, JS760DP5BB, JBS60RK1SS, GRF400PV1SS, JS760FL3DS, JS760EP1ES, JS645SL5SS, JB750DJ8BB, JBS60DK8BB, JBS60DK1WW, JS645DL3WW, JB750FJ7DS, JBS60DK4WW, JS760SL4SS, JB655DK4CC, JB655DKCBB, JS760EP3ES, JB655YK6FS, JB750DJ4WW, JBS60DK7WW, JB630DF5WW, JBS86SP1SS, JB655DK8BB, GRF500PV1SS, JB750DJ6BB, JB755SJ3SS, JS760DP1WW, JBS60DK3BB, JB735EP3ES, JBS86SP5SS, JB755BJ7TS, JS760FL2DS, JB750DJ9BB, JB735DP5BB, JS645DL4WW, JBS60RK7SS, JS760EL1ES, JS760FP7DS, JB655DK8WW, JCB865SJ4SS, JB655SKASS, JB655DK6BB, JB860EJAES, JB860BJ8TS, JB655DKABB, JB750EJ5ES, PB965BP3TS, JS645EL2ES, JB860FJ9DS, JB700DJ4WW, JB860DJ2BB, JB735EP4ES, JB645FK3DS, JB750FJ9DS, JB645EK2ES, GRS600AV2DS, JB750EJ7ES, JS760DP4BB, GRF600AV1BB, JBS60DK3WW, JB735SP4SS, JB655FK4DS, JS760EL2ES, JB645DK2WW, JBS60RK2SS, JB755DJ1WW, PCB980SJ1SS, JCB865SJ5SS, JB750SJ8SS, JB735DP4BB, JB735EP2ES, JSS86SP1SS, JB755EJ8ES, JCB865SJ2SS, JB655DK2CC, JS760SP3SS, JB735FP4DS, PB930SL2SS, JB645DK6BB, JS645DL6WW, JB645FK7DS, JSS86SP2SS, JSS86SP5SS, JBS60DK9WW, JB750DJ5WW, PB935BP4TS, JB755EJ1ES, JB645DK3WW, JS645EL8ES, JS645FL4DS, JS760EP2ES, JS760FP5DS, JB655SK4SS, JB860DJ3WW, JB645DK5WW, GRS600AV1FS, JB645DK3BB, JB860DJ9WW, JBS60RK5SS, JB655DK7CC, PB965YP4FS, GRF400SV1SS, JB645DK5BB, JB755SJ7SS, JB860EJ9ES, GRF400PV1BB, JS760EP4ES, JB750DJ7BB, JS760DL2BB, JB645DK4BB, JB755EJ4ES, JB700DJ4BB, JB750DJ6WW, JBS60RF4SS, GRS600AV2ES, JS760BL5TS, GRF500PV1WW, JS760SP7SS, PB980SJ7SS, JB655SK1SS, JB645DK1BB, JS760EP7ES, JB755EJ5ES, JS760DP7WW, JB750EJ8ES, JS760FP3DS, JS760EP8ES, PB980SJ6SS, JB645FK9DS, JS760EL5ES, JB755SJ4SS, JSS86SP6SS, JS760DP3WW, JB645RK9SS, JB655SKCSS, JB645DK8BB, JB860SJ9SS, JCB865SJ7SS, JB750EJ6ES, JB860DJ1BB, JS645SL1SS, JS760SP4SS, GRF500PV2ES, JB645RK8SS, JB735DP2BB, JS660EL1ES, JB860SJ6SS, PB930SL4SS, JB860BJATS, JB645EK3ES, PB935BP2TS, GRS60LAV1FS, JS645FL6DS, PCB980SJ6SS, JB655EK7ES, JB735DP2WW, JB750DJ1BB, JB655EK1ES, JS645DL2WW, JB735EP5ES, GRS600AV1DS, GRF400SV1WW, JS760DP6WW, JB750SJ6SS, JS760BL2TS, JB655SK2SS, JB645RK4SS, JB860SJASS, JCB865SJ3SS, JB655SK8SS, JB650SF5SS

5. INSTALLATION INSTRUCTIONS

Tools Required: Screwdriver (Phillips and/or flathead), Pliers, Wire Strippers (if necessary), Multimeter (for testing, optional).

Procedure:

1. **Disconnect Power:** Locate the circuit breaker for your range/stove and turn off the power. Verify power is off using a multimeter if available.
2. **Access the Control Panel:** Depending on your range model, you may need to remove the back panel or lift the cooktop to access the infinite switches. Refer to your appliance's service manual for specific access instructions.
3. **Identify the Faulty Switch:** Note the position and wiring of the switch you are replacing. It is highly recommended to take a photograph of the existing wiring connections before disconnecting anything.
4. **Disconnect Wiring:** Carefully disconnect each wire from the old infinite switch. Use pliers if terminals are tight. Pay close attention to the terminal markings (e.g., L1, L2, H1, H2, P, S).
5. **Remove Old Switch:** Unscrew or unclip the old infinite switch from its mounting bracket.
6. **Install New Switch:** Position the new infinite switch into the mounting bracket and secure it with screws or clips.
7. **Connect Wiring:** Reconnect the wires to the corresponding terminals on the new switch. Refer to your photograph and the appliance's wiring diagram to ensure correct connections. Ensure all connections are firm and secure.
8. **Reassemble Appliance:** Carefully reassemble the control panel or cooktop, ensuring no wires are pinched.
9. **Restore Power and Test:** Turn the power back on at the circuit breaker. Test the new infinite switch by turning on the corresponding burner at various heat settings to confirm proper operation.



Figure 4: Top view of the infinite switch, showing the shaft and upper housing. This image provides an overhead perspective, useful for understanding the orientation during installation.



Figure 5: Bottom view of the infinite switch, showing the base and lower electrical connections. This image helps in identifying the lower terminals and overall base structure.

6. OPERATING INSTRUCTIONS

Once installed, the infinite switch operates in conjunction with the control knob on your range. Rotate the knob clockwise or counter-clockwise to select the desired heat level for the corresponding surface burner. The switch provides a continuous range of heat settings, allowing precise control over cooking temperatures.

- **OFF:** The burner is off and receives no power.
- **LOW:** Provides minimal heat for simmering or keeping food warm.
- **MEDIUM:** Suitable for general cooking, frying, or boiling.
- **HIGH:** Delivers maximum heat for rapid boiling or searing.

Always ensure the control knob is in the "OFF" position when the burner is not in use.

7. MAINTENANCE

The infinite switch itself requires no routine maintenance. However, it is good practice to:

- Keep the control panel area clean and free of food debris or spills.
- Periodically inspect the wiring connections for any signs of wear, corrosion, or looseness (with power disconnected).
- Ensure control knobs are securely attached to the switch shafts.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Burner does not heat up.	No power to range; faulty burner element; faulty infinite switch; loose wiring connection.	Check circuit breaker. Test burner element for continuity. Verify switch wiring. Replace switch if faulty.
Burner heats only on high setting.	Faulty infinite switch.	The infinite switch is likely not regulating power correctly. Replace the infinite switch.
Burner heats inconsistently.	Faulty infinite switch; loose wiring.	Check wiring connections. Replace the infinite switch.
Control knob does not turn or feels loose.	Damaged control knob; damaged switch shaft.	Inspect knob and shaft for damage. Replace knob or switch as needed.

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

9. SPECIFICATIONS

- **Part Type:** Range Stove Burner Infinite Switch
- **Manufacturer:** Generic
- **Model Number:** JB700EJ3ES (as a representative model for compatibility)
- **Voltage Rating:** 240Vac
- **Amperage Rating:** 15A
- **Product Dimensions:** Approximately 1 x 1 x 1 inches
- **Included Components:** Burner Infinite Switch

10. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided with your purchase or contact the seller directly. As this is a generic replacement part, warranty terms may vary. For technical support or further assistance, it is recommended to consult a professional appliance repair service or refer to your appliance's original manufacturer documentation.

