

Samsung DG44-01002A

Samsung DG44-01002A Energy Regulator Instruction Manual

Model: DG44-01002A

1. PRODUCT OVERVIEW

The Samsung DG44-01002A is a genuine Surface Element Control Switch designed for compatible Samsung electric ranges. This component is crucial for regulating the heat output of your range's surface elements, allowing you to turn them on and off and control the temperature precisely. It is also known as a Dual Infinite Switch and is compatible with certain Samsung electric ranges in the FCQ3, FE71, FER3, FTQ3, and NE59 series.



Image: The Samsung DG44-01002A Energy Regulator, a component responsible for controlling the heat of a stove's surface element.

Key Features:

- Genuine Samsung replacement part (OEM part # DG44-01002A).
- Designed to fit various Samsung brand models.
- Old and new versions of part # DG44-01002A are compatible due to an Engineer Change (EC).
- Controls the on/off function and heat intensity of surface elements.

2. SETUP AND INSTALLATION

Installation of the DG44-01002A Energy Regulator requires careful attention to safety and proper procedure. It is recommended that installation be performed by a qualified service professional. If you choose to perform the installation yourself, proceed with caution.

Important Safety Precautions:

- **ALWAYS disconnect power to the appliance before beginning any repair or installation.** Failure to do so can result in serious injury or electrical shock.
- Wear appropriate personal protective equipment, such as gloves.

Installation Steps (General Guidance):

1. **Verify Part Compatibility:** Before purchasing or installing, refer to your appliance service manual or contact your appliance manufacturer to confirm that DG44-01002A is the correct part number for your specific model.
2. **Access the Control Panel:** Depending on your range model, you may need to remove screws to access the rear of the control panel where the surface element switches are located.
3. **Document Wiring:** Before disconnecting any wires, take clear photographs of the existing wiring connections to the old switch. This will serve as a reference for connecting the new switch correctly.
4. **Remove Old Switch:** Carefully disconnect all wires from the faulty switch and remove it from its mounting.
5. **Install New Switch:** Mount the new DG44-01002A switch in the same position as the old one. Connect the wires to the new switch according to the photographs taken in step 3. Note that some switches may have slightly different terminal layouts, but the wiring should correspond to the original connections.
6. **Test Functionality:** Before fully reassembling the appliance, restore power and test the functionality of the newly installed switch to ensure the element heats up and regulates temperature correctly.
7. **Reassemble:** Once confirmed working, reassemble the control panel and any other parts removed.

For detailed, model-specific instructions, always consult your appliance's official service manual or a professional technician.

3. OPERATING INSTRUCTIONS

The DG44-01002A Energy Regulator functions in conjunction with your range's control knob to manage the surface heating element. Once installed, its operation is integrated into the standard use of your electric range.

Basic Operation:

1. **Turn On:** Rotate the corresponding surface element control knob on your range from the "OFF" position to the desired heat setting (e.g., Low, Medium, High).
2. **Adjust Heat:** The regulator will then cycle power to the heating element to maintain the selected temperature. Adjust the knob as needed to increase or decrease the heat.
3. **Turn Off:** Rotate the control knob back to the "OFF" position to deactivate the heating element.

The regulator's internal mechanism uses a bimetal strip and a resistor to modulate power, ensuring consistent temperature control for cooking.

4. MAINTENANCE

As an internal electrical component, the Samsung DG44-01002A Energy Regulator requires no routine user maintenance. Its design is intended for long-term operation within the appliance.

Key Maintenance Considerations:

- **Cleaning:** Do not attempt to clean the internal components of the regulator. If the exterior of the control panel requires cleaning, ensure the appliance is unplugged and use a damp cloth, avoiding direct contact with electrical components.
- **Replacement:** If the regulator malfunctions, it is a sealed unit and cannot be repaired. It must be replaced with a new, genuine Samsung DG44-01002A part.
- **Professional Inspection:** If you suspect an issue with the regulator or any other internal component, it

is advisable to have the appliance inspected by a qualified service technician.

5. TROUBLESHOOTING

If your surface element is not functioning as expected, the DG44-01002A Energy Regulator may be a contributing factor. Here are common issues and potential solutions:

Common Issues:

- **Burner Stays on High Heat:** If the surface element only operates at maximum heat regardless of the control knob setting, the regulator is likely faulty. This is a common symptom of a failing infinite switch.
- **No Heat from Element:** If the surface element does not heat up at all, check the power supply to the appliance. If power is present, the regulator or the element itself may be defective.
- **Inconsistent Heating:** If the element cycles on and off erratically or fails to maintain a consistent temperature, the regulator may be failing.

Troubleshooting Steps:

1. **Disconnect Power:** Always disconnect the appliance from its power source before inspecting any internal components.
2. **Inspect Wiring:** Carefully check all wire connections to the regulator for looseness, corrosion, or signs of burning. Ensure they are securely attached.
3. **Verify Installation Orientation:** In some range models, the regulator might need to be installed in a specific orientation (e.g., "upside down" relative to its appearance) for the control knob labels to correspond correctly. If the switch functions but the settings seem reversed, try rotating the switch 180 degrees if possible and safe.
4. **Test with Multimeter (Advanced):** A qualified technician can use a multimeter to test the continuity and resistance of the regulator to confirm its functionality.
5. **Consider Replacement:** If troubleshooting indicates a faulty regulator, replacement with a new DG44-01002A part is typically the solution.

If you are unsure about any troubleshooting steps, contact a certified appliance technician.

6. SPECIFICATIONS

Specification	Detail
Brand Name	Samsung
Model Info	DG44-01002A
Item Weight	1.44 ounces
Product Dimensions	5.1 x 3.05 x 2 inches
Item Model Number	DG44-01002A
Part Number	DG44-01002A
Included Components	Single Samsung DG44-01002A Range Surface Element Control Switch
Batteries Included?	No

Specification	Detail
Batteries Required?	No
ASIN	B01ARKVR36
Date First Available	October 19, 2010

7. WARRANTY INFORMATION

Specific warranty details for the Samsung DG44-01002A Energy Regulator are typically provided at the point of purchase or by the manufacturer. As this is a replacement part, its warranty may differ from that of a complete appliance.

To obtain accurate warranty information, please:

- Refer to the documentation included with your purchase.
- Contact Samsung customer support directly.
- Contact the retailer from whom the part was purchased.

Keep your proof of purchase (receipt or invoice) as it will be required for any warranty claims.

8. SUPPORT

For further assistance, technical support, or to schedule professional service for your Samsung appliance, please use the following resources:

- **Samsung Official Support:** Visit the official Samsung website for your region to find contact information for customer service, technical support, and service center locations.
- **Appliance Service Manual:** Consult the service manual specific to your Samsung electric range model for detailed diagrams, troubleshooting guides, and part replacement procedures.
- **Certified Service Professional:** If you are uncomfortable performing repairs yourself, contact a certified appliance repair technician specializing in Samsung products.

When contacting support, have your appliance's full model number and serial number ready for faster service.