

SAMSUNG DE92-04044B

Samsung DE92-04044B Microwave Electronic Control Board User Manual

Genuine Original Equipment Manufacturer (OEM) Part

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the Samsung DE92-04044B Microwave Electronic Control Board. This component is a genuine Original Equipment Manufacturer (OEM) part designed to restore full functionality to compatible Samsung microwave ovens. Please read all instructions carefully before proceeding with any installation or repair.

2. IMPORTANT SAFETY INFORMATION

WARNING: Disconnect power to the microwave oven before servicing. Failure to do so may result in electrical shock, personal injury, or death. Microwave ovens contain high-voltage components that can retain a dangerous electrical charge even after power is disconnected. Only qualified service technicians should attempt repairs involving internal components.

- Always wear appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Ensure the work area is well-lit and clear of obstructions.
- Handle the control board by its edges to avoid damaging electronic components or circuits.
- Verify the correct model number of your appliance before purchasing or installing any replacement part.

3. PRODUCT OVERVIEW

The DE92-04044B is the main electronic control board for specific Samsung microwave oven models. It manages all functions of the microwave, including cooking settings, display, and user input from the keypad. This board is crucial for the proper operation of your appliance.



Figure 3.1: Front view of the Samsung DE92-04044B Electronic Control Board, showing the user interface and display area.

Does your part fit?



Many replacement parts look the same **but won't fit your model.**

Don't be fooled!

Check your model number **before** you buy.

Figure 3.2: Back view of the Samsung DE92-04044B Electronic Control Board, illustrating the circuit board and connectors.

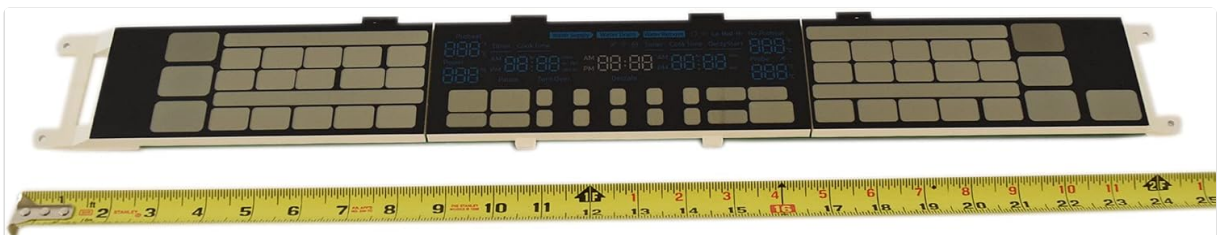


Figure 3.3: The control board displayed with a ruler, indicating its approximate dimensions for verification.

4. SETUP AND INSTALLATION

Installation of the DE92-04044B control board requires technical expertise. It is highly recommended that installation be performed by a qualified appliance repair technician.

4.1. Pre-Installation Checks

- **Verify Compatibility:** Ensure that the DE92-04044B is the correct part number for your specific Samsung microwave model. Refer to your microwave's original service manual or product label.
- **Power Disconnection:** Absolutely ensure the microwave oven is unplugged from the electrical outlet before beginning any work.
- **Tools Required:** Gather necessary tools, which may include screwdrivers (Phillips and flathead), nut drivers, and possibly a multimeter for testing.



Figure 4.1: Important reminder to verify part compatibility with your specific microwave model before installation.

4.2. Installation Steps (General Guide)

1. **Access the Control Panel:** Depending on your microwave model, this may involve removing screws from the top, side, or bottom of the appliance to access the control panel assembly.
2. **Disconnect Wiring:** Carefully photograph or diagram the existing wiring connections to the old control board before disconnecting them. This will aid in correct reassembly. Disconnect all wire harnesses and ribbon cables.
3. **Remove Old Board:** Unscrew or unclip the old control board from its mounting brackets.
4. **Install New Board:** Position the new DE92-04044B control board and secure it with the original screws or clips.
5. **Reconnect Wiring:** Carefully reconnect all wire harnesses and ribbon cables to their corresponding terminals on the new board, referring to your photographs or diagrams. Ensure all connections are secure.
6. **Reassemble:** Reattach the control panel and any other components removed to access the board.
7. **Test:** Plug the microwave back into the electrical outlet and test all functions to ensure proper operation.

5. OPERATING

Once the Samsung DE92-04044B Electronic Control Board is correctly installed, your microwave oven should resume normal functionality. The control board facilitates all user interactions and cooking processes. Refer to your microwave oven's original user manual for specific operating instructions, cooking modes, and feature usage.

- **Power On:** After installation, plug in the microwave. The display should illuminate, and the clock may need to be set.
- **Function Test:** Test various functions such as setting the time, using different power levels, and operating the timer to confirm the board is fully functional.

6. MAINTENANCE

The electronic control board itself requires minimal maintenance. However, proper care of the microwave oven can extend the life of all its components, including the control board.

- **Keep Dry:** Prevent liquids from spilling onto the control panel, as moisture can damage the electronic circuits.

- **Clean Gently:** When cleaning the microwave's exterior or control panel, use a soft, damp cloth and mild detergent. Avoid abrasive cleaners or excessive moisture.
- **Ventilation:** Ensure the microwave's ventilation openings are not blocked to prevent overheating, which can stress electronic components.

7. TROUBLESHOOTING

If your microwave oven exhibits issues after installing the DE92-04044B control board, consider the following troubleshooting steps. Always ensure the microwave is unplugged before inspecting internal components.

Problem	Possible Cause	Solution
Microwave does not power on / No display	Loose power connection, faulty outlet, incorrect wiring, or a tripped circuit breaker.	Check power cord, test outlet, verify internal wiring connections, reset circuit breaker.
Buttons unresponsive / Incorrect input	Keypad issue, loose ribbon cable connection to the control board.	Inspect ribbon cable for secure connection and damage. The keypad membrane might also be faulty (separate component).
Specific functions not working (e.g., heating, turntable)	Other component failure (magnetron, motor, etc.), or a specific relay on the control board.	This may indicate a fault beyond the control board. Professional diagnosis is recommended.
Error codes displayed	Indicates a specific system fault.	Consult your microwave's service manual for the meaning of specific error codes and recommended actions.

If troubleshooting does not resolve the issue, it is advisable to contact a qualified service technician for further assistance.

8. SPECIFICATIONS

- **Brand:** SAMSUNG
- **Model Info:** DE92-04044B
- **Item Model Number:** DE92-04044B
- **Item Weight:** Approximately 0.01 Ounces (0.28 grams)
- **Installation Type:** Over-the-Range (relevant to the microwave type this board is for)
- **Oven Cooking Mode:** Microwave Radiation (relevant to the microwave type this board is for)
- **Voltage:** 1.2E+2 Volts (AC) - 120V AC
- **Defrost:** Auto Defrost (function controlled by this board)
- **Inner Material Type:** Stainless Steel (relevant to the microwave type this board is for)
- **Batteries Required?:** No
- **Controller Type:** Touch
- **Human Interface Input:** Touchscreen
- **Number of Power Levels:** 10 (function controlled by this board)
- **Heating Method:** Microwave Radiation (relevant to the microwave type this board is for)

- **Defrost System:** Auto Defrost (function controlled by this board)

9. WARRANTY AND SUPPORT

As a genuine Samsung Original Equipment Manufacturer (OEM) part, the DE92-04044B control board is typically covered by Samsung's standard warranty for replacement parts. Please retain your proof of purchase for warranty claims.

For detailed warranty information, technical support, or to locate authorized service centers, please visit the official Samsung support website or contact Samsung customer service directly. You can find more information on the [Samsung Store on Amazon](#).