

## BLE12, BLE12A, 2410SZ

# Generic Dishwasher Heating Element BLE12 BLE12A 1800W 220V Instruction Manual

Model: BLE12, BLE12A, 2410SZ

## 1. INTRODUCTION

This document provides essential information for the installation, operation, maintenance, and troubleshooting of the Generic 2410SZ Heating Element. This component is designed for specific dishwasher models, including BLE12 and BLE12A, and is crucial for the efficient heating of water during wash cycles and assisting in the drying process. Please read this manual thoroughly before attempting any installation or repair.

## 2. SAFETY INFORMATION

**WARNING:** Electrical shock hazard. Always disconnect power to the dishwasher before servicing. Installation and replacement of this heating element should only be performed by a qualified technician. Failure to follow these instructions can result in serious injury or property damage.

- Ensure the dishwasher is unplugged or the circuit breaker is turned off before beginning any work.
- Wear appropriate personal protective equipment, including gloves and eye protection.
- Handle the heating element carefully to avoid damage to the component or injury.
- Verify that the replacement part specifications (voltage, wattage) match the original component and your appliance requirements.

## 3. PRODUCT OVERVIEW AND COMPATIBILITY

The 2410SZ Heating Element is a replacement part engineered to provide efficient water heating and drying assistance for compatible dishwashers. It features a robust design for high durability and thermal efficiency.

### 3.1. Compatibility

This heating element is specifically designed for use with dishwasher models BLE12 and BLE12A. It ensures a precise fit and practical installation without the need for adaptations.

### 3.2. Component Features

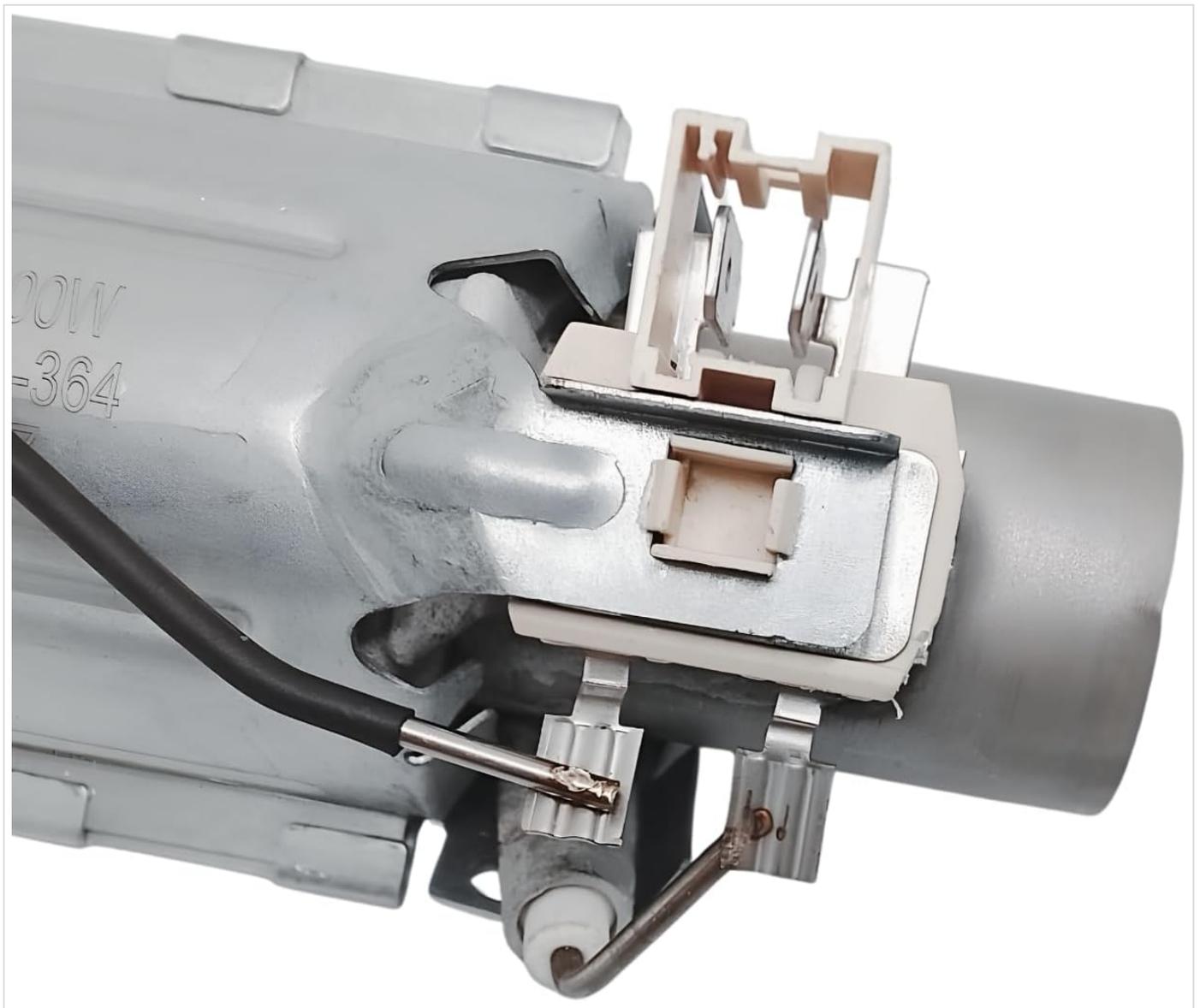
- **Efficient Heating:** Responsible for effectively heating water during wash cycles.
- **Drying Assistance:** Aids in the drying process for superior cleaning results.
- **Precise Fit:** Engineered to match original manufacturer standards for easy installation.
- **High Durability:** Constructed with resistive elements and metal for reliable, long-lasting performance.



**Figure 1:** General view of the 2410SZ Dishwasher Heating Element. This image shows the overall structure of the heating element, including its cylindrical body and electrical connections.



**Figure 2:** Close-up view of the heating element displaying its specifications. Visible markings indicate "220V/1800W" and the part number "2410SZ", confirming its electrical rating and model identification.



**Figure 3:** Detailed view of the electrical terminals and sensor connection points on the heating element. This shows the precise connectors for power supply and temperature sensing.



**Figure 4:** End-on view of the heating element, illustrating the internal cylindrical passage through which water flows. This design ensures efficient heat transfer to the water.

## 4. SETUP AND INSTALLATION

The installation of a dishwasher heating element requires technical expertise. It is strongly recommended that this procedure be performed by a certified appliance technician to ensure safety and proper functionality.

### 4.1. Required Tools (Typical)

- Screwdrivers (Phillips and flathead)
- Pliers
- Nut drivers or wrenches
- Multimeter (for testing continuity)
- Work gloves

## 4.2. Installation Steps (General Guide)

1. **Disconnect Power:** Ensure the dishwasher's power supply is completely disconnected at the circuit breaker.
2. **Access the Dishwasher:** Depending on the dishwasher model, you may need to pull the appliance out from its cabinet or access components from the front or bottom.
3. **Drain Water:** If there is standing water in the dishwasher tub, drain it.
4. **Locate the Heating Element:** The heating element is typically located at the bottom of the dishwasher tub.
5. **Disconnect Wiring:** Carefully disconnect the electrical wires from the old heating element. Note their positions for correct re-connection.
6. **Remove Old Element:** Unfasten any mounting nuts or clips securing the old heating element and remove it.
7. **Install New Element:** Position the new 2410SZ heating element, ensuring it seats correctly. Secure it with the mounting hardware.
8. **Reconnect Wiring:** Attach the electrical wires to the new heating element's terminals. Ensure connections are secure.
9. **Reassemble Dishwasher:** Reassemble any panels or components that were removed.
10. **Restore Power and Test:** Restore power to the dishwasher and run a test cycle to verify proper operation and heating. Check for any leaks.

Refer to your specific dishwasher's service manual for detailed, model-specific installation instructions.

## 5. OPERATING PRINCIPLES

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The 2410SZ Heating Element functions as a critical component within your dishwasher's operational cycle. Its primary roles are:

- **Water Heating:** During wash and rinse cycles, the element heats the water to the optimal temperature required for effective cleaning and sanitization. This ensures detergents activate properly and grease is dissolved.
- **Drying Assistance:** In many dishwashers, the heating element is activated during the drying phase to raise the internal temperature, facilitating the evaporation of water from dishes and improving drying performance.

The element is controlled by the dishwasher's main control board, which activates it based on the selected wash cycle and temperature settings.

## 6. MAINTENANCE

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The 2410SZ Heating Element itself is a sealed unit and does not require specific user maintenance. However, general dishwasher maintenance can help prolong the life of all components, including the heating element.

- **Regular Cleaning:** Periodically clean the dishwasher interior, including filters and spray arms, to prevent food debris and mineral deposits from accumulating. Excessive buildup can hinder water flow and place additional strain on the heating element.
- **Use Appropriate Detergent:** Use only dishwasher-specific detergents in the recommended amounts. Overdosing or using incorrect detergents can lead to residue buildup.
- **Water Hardness:** In areas with hard water, consider using a dishwasher cleaner or descaler periodically to prevent mineral scale buildup on the heating element and other internal parts.

## 7. TROUBLESHOOTING

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If your dishwasher is experiencing issues related to heating or drying, the heating element may be a contributing factor. Below are common symptoms and potential causes:

### 7.1. Common Symptoms of a Faulty Heating Element

- **Dishes Not Drying:** If dishes remain wet after a complete cycle, the heating element may not be activating during the drying phase.

- **Water Not Heating:** If the water in the dishwasher remains cold throughout the wash cycle, the heating element may be faulty or not receiving power.
- **Error Codes:** Some dishwashers display specific error codes related to heating element malfunctions. Consult your dishwasher's user manual for code interpretations.
- **Burnt Smell:** A burning smell during operation could indicate a shorted or failing heating element.

## 7.2. Diagnostic Steps (For Qualified Technicians Only)

- **Visual Inspection:** After disconnecting power, visually inspect the heating element for signs of damage, corrosion, or burn marks.
- **Continuity Test:** Use a multimeter to test the continuity of the heating element. A lack of continuity indicates an open circuit and a faulty element.
- **Voltage Check:** Verify that the heating element is receiving the correct voltage during the heating cycle (this requires caution and should only be done by a professional).

If a fault is confirmed, the heating element typically requires replacement. Do not attempt to repair a damaged heating element.

## 8. SPECIFICATIONS

Feature	Specification
Model Name	Resistência Lava-Louças Brastemp BLE12 BLE12A 1800W 220V (Part Number 2410SZ)
Part Number	2410SZ
Compatibility	Dishwasher models BLE12, BLE12A
Power	1800W
Voltage	220V
Material	Resistive Element, Metal
Product Weight	44 Grams
Product Dimensions	6 x 3 x 6 cm (60P x 30L x 60A millimeters)
Color	Silver
Installation Type	Standalone (Replacement Part)

## 9. WARRANTY AND SUPPORT

This heating element is manufactured to high standards, ensuring high durability and reliable performance. As a generic replacement part, specific warranty terms may vary.

For warranty information, technical support, or assistance with installation, please contact the seller or the authorized distributor from whom the product was purchased. Always provide your purchase details and the product's model/part number (2410SZ) when seeking support.

