

ES585B

Generic ES585B Electronic Clock/Timer Controller User Manual

Model: ES585B

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Generic ES585B Electronic Clock/Timer Controller. Please read this manual thoroughly before installation and use, and retain it for future reference. This controller is designed for precise electronic timing and temperature management in compatible appliances.

1.1 Safety Information

- **Electrical Hazard:** Installation and servicing should only be performed by qualified personnel. Disconnect power before servicing.
- **Component Handling:** Electronic components are sensitive to electrostatic discharge. Handle with care and use appropriate ESD precautions.
- **Compatibility:** Ensure this controller is compatible with your appliance model before installation. Refer to your appliance's service manual.
- **Environmental Conditions:** Do not expose the controller to excessive moisture, dust, or extreme temperatures.

2. PRODUCT DESCRIPTION

The Generic ES585B is an electronic control board featuring a clock and timer function, designed to manage various operations within an appliance. It integrates control logic for functions such as timed operations, delay starts, and potentially specific cooking modes like convection bake, broil, roast, and more, as indicated by its display interface.



Figure 2.1: Front view of the ES585B Electronic Controller, displaying the digital clock/timer and various function indicators such as TIMED, DELAY, TIMER, DOOR LOCKED, CLEAN, CONV BAKE, BROIL, ROAST, CAKES, and BREADS.

The controller typically consists of a main circuit board with relays, connectors, and a user interface panel. The interface panel includes a digital display for time and status, along with indicators for active functions.

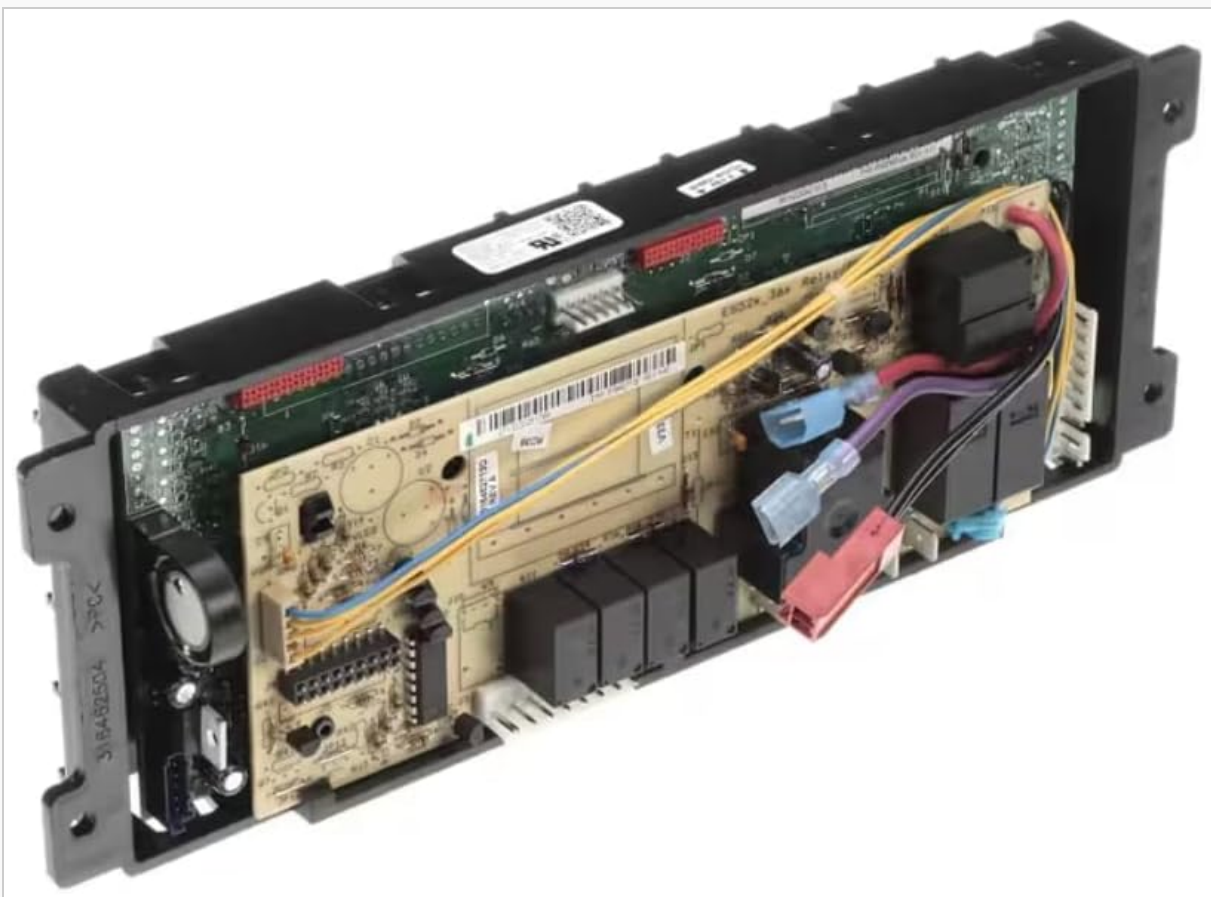


Figure 2.2: Top-down view of the ES585B Controller's internal circuit board, showing the arrangement of relays, capacitors, and other electronic components.

3. SETUP AND INSTALLATION

Installation of the ES585B controller requires technical expertise and should be performed by a qualified service technician. Incorrect installation can lead to appliance malfunction, damage, or personal injury.

3.1 Pre-Installation Steps

1. **Disconnect Power:** Always disconnect the appliance from its power source before beginning any installation or repair work.
2. **Access Panel:** Carefully remove the appliance's control panel or access cover to expose the existing controller.
3. **Documentation:** Take photographs or make detailed diagrams of the existing wiring connections before disconnecting them.

3.2 Installation Procedure

1. **Remove Old Controller:** Disconnect all wiring from the old controller and carefully remove it from its mounting.
2. **Install New Controller:** Position the new ES585B controller in the same location and secure it using the original mounting hardware.
3. **Connect Wiring:** Reconnect all wiring to the new controller according to your documentation. Ensure all connections are secure and correctly matched.
4. **Verify Connections:** Double-check all wiring connections for accuracy and tightness.
5. **Reassemble:** Replace the control panel or access cover.



Figure 3.1: Side view of the ES585B Controller, illustrating the various wiring harnesses and connectors for integration into an appliance.



Figure 3.2: Alternate side view of the ES585B Controller, providing a different perspective on its physical structure and component placement.

3.3 Post-Installation Check

After installation, restore power to the appliance and perform a functional test to ensure the controller operates correctly. Check the display, clock, and all relevant functions.

4. OPERATING INSTRUCTIONS

The ES585B controller provides an intuitive interface for setting time and managing appliance functions. Specific button labels and sequences will vary by appliance model, but the core functions are generally consistent.

4.1 Setting the Clock

1. Locate the 'Clock' or 'Time Set' button. Press it once.
2. Use the '+' or '-' buttons (or numerical keypad) to adjust the hour.
3. Press the 'Clock' or 'Time Set' button again to move to minute adjustment.
4. Use the '+' or '-' buttons to adjust the minutes.

5. Press 'Start' or 'Clock' again to confirm the time.

4.2 Using the Timer Function

The timer function acts as a kitchen timer and does not control the appliance's operation directly.

1. Press the 'Timer' button.
2. Enter the desired time using the '+' or '-' buttons or numerical keypad.
3. Press 'Start' or 'Timer' again to begin the countdown.
4. An audible alert will sound when the timer expires. Press 'Timer' to clear the alert.

4.3 Timed Operations (e.g., Timed Bake)

This function allows the appliance to operate for a set duration.

1. Select the desired cooking mode (e.g., 'Bake', 'Roast').
2. Press the 'Timed' or 'Cook Time' button.
3. Enter the desired cooking duration.
4. Press 'Start'. The appliance will operate for the set time and then turn off automatically.

4.4 Delay Start Function

The delay start feature allows you to set the appliance to begin operation at a later time.

1. Select the desired cooking mode and temperature.
2. Press the 'Delay Start' button.
3. Enter the desired delay time (when you want the appliance to start).
4. Press 'Start'. The appliance will wait for the set delay time before beginning the operation.

5. MAINTENANCE

The ES585B controller is designed for minimal maintenance. Regular cleaning and proper handling will ensure its longevity.

5.1 Cleaning

- **Disconnect Power:** Always disconnect power to the appliance before cleaning the control panel.
- **Surface Cleaning:** Use a soft, damp cloth with mild soap to wipe the surface of the control panel. Avoid abrasive cleaners, solvents, or excessive moisture.
- **Avoid Liquids:** Do not spray cleaning liquids directly onto the control panel or allow liquids to seep into the gaps around buttons or the display.

5.2 General Care

- Avoid pressing buttons with sharp objects.
- Protect the controller from physical impact.
- Ensure proper ventilation around the appliance to prevent overheating of electronic components.

6. TROUBLESHOOTING

If you encounter issues with your ES585B controller, refer to the following common troubleshooting steps.

For complex problems, contact a qualified service technician.

Problem	Possible Cause	Solution
Display is blank or dim	No power, loose connection, display failure	Check power supply to the appliance. Verify wiring connections. If problem persists, controller may need replacement.
Buttons unresponsive	Control panel locked, internal error, physical damage	Check for a 'Control Lock' feature and disable it. Disconnect power for 5 minutes and reconnect (reset). Inspect for physical damage.
Clock/Timer not keeping accurate time	Power interruption, internal component issue	Reset the clock. If the issue recurs frequently, professional service may be required.
Appliance functions not responding to controller	Incorrect wiring, faulty relays, internal circuit failure	Verify all wiring connections. This issue typically requires diagnosis and repair by a qualified technician.

7. SPECIFICATIONS

Feature	Detail
Model Number	ES585B (Also known as AI3164627130D REV A, EHP-316462713D REV X40, SF5531-87073H REV E)
Product Dimensions (L x W x H)	11.8" x 7.7" x 4.4"
Item Weight	1.19 Pounds
Included Components	Temperature Control (Integrated)
Functionality	Electronic Clock, Timer, Timed Operations, Delay Start, Appliance Mode Control

8. WARRANTY AND SUPPORT

Specific warranty information for the Generic ES585B controller is not provided in this document. Please refer to the original purchase documentation or contact your retailer for details regarding warranty coverage.

For technical support or service inquiries, it is recommended to contact the appliance manufacturer or a certified service technician who specializes in your specific appliance model.