

OEM Replm for Carrier LH33WP007

CARRIER LH33WP007 Ignition Control Board Instruction Manual

Model: LH33WP007

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the OEM Replacement Carrier LH33WP007 Ignition Control Board. This control board is designed for use in compatible furnace systems to manage the ignition sequence and ensure safe and efficient operation. Please read this manual thoroughly before attempting any installation or service.

Product Description: This is a Brand New OEM Replacement Furnace Control Board.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Consult a qualified installer, service agency, or the gas supplier for information or assistance.

- Always disconnect power to the furnace before installing or servicing the control board.
- Ensure all wiring connections are secure and comply with local and national electrical codes.
- Do not operate the furnace if any part has been submerged in water.
- Only qualified personnel should attempt installation or repair.
- Wear appropriate personal protective equipment (PPE) during installation and service.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- 1 x CARRIER LH33WP007 Ignition Control Board
- 1 x Instruction Manual (this document)

4. SETUP AND INSTALLATION

The following steps outline the general procedure for replacing a furnace control board. Specific furnace models may vary, so always refer to the furnace manufacturer's service manual for detailed instructions.

1. **Power Disconnection:** Turn off all electrical power to the furnace at the main service panel. Turn off the gas supply to the furnace.
2. **Access Control Board:** Open the furnace access panel to locate the existing control board.
3. **Document Wiring:** Before disconnecting any wires, take clear photographs or make detailed diagrams of all wiring connections to the old control board. Label each wire and its corresponding terminal.
4. **Disconnect Wires:** Carefully disconnect all wires from the old control board.
5. **Remove Old Board:** Remove the mounting screws or clips securing the old control board and carefully remove it from the furnace.
6. **Install New Board:** Position the new CARRIER LH33WP007 control board in the same location as the old board. Secure it with the mounting screws or clips.
7. **Connect Wiring:** Refer to your photographs or diagrams and carefully reconnect all wires to the appropriate terminals on the new control board. Double-check all connections for accuracy and security.
8. **Close Access Panel:** Close and secure the furnace access panel.
9. **Restore Power:** Restore the gas supply and electrical power to the furnace.
10. **Test Operation:** Initiate a heating cycle to verify proper operation of the furnace and the new control board. Observe the ignition sequence and ensure all components function correctly.

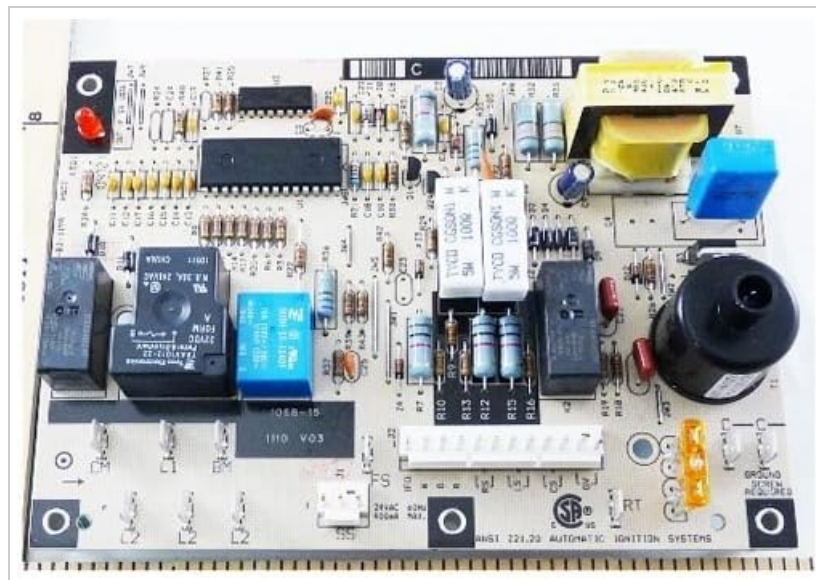


Figure 1: Top view of the CARRIER LH33WP007 Ignition Control Board, showing various electronic components, relays, and connection terminals.

5. OPERATING INSTRUCTIONS

The CARRIER LH33WP007 Ignition Control Board operates automatically once installed and power is supplied to the furnace. It manages the sequence of operations for safe and efficient furnace ignition and heating cycles.

Normal Operation Sequence:

1. Thermostat calls for heat.
2. Control board initiates the inducer motor.
3. Pressure switch closes, signaling the control board.
4. Igniter (hot surface igniter or spark igniter) is energized.
5. Gas valve opens, allowing gas to flow to the burners.
6. Ignition occurs, and the flame sensor detects the flame.
7. Blower motor starts after a short delay to distribute heat.
8. When the thermostat is satisfied, the gas valve closes, and the blower motor continues to run for a short period to dissipate residual heat.

Monitor the furnace's operation after installation to ensure it cycles correctly. Refer to the furnace manufacturer's manual for specific operational details and thermostat settings.

6. MAINTENANCE

The CARRIER LH33WP007 Ignition Control Board itself requires no routine maintenance. However, regular maintenance of the overall furnace system is crucial for its longevity and proper function. This includes:

- **Air Filter Replacement:** Replace or clean the furnace air filter regularly (monthly or as recommended by the furnace manufacturer).
- **Annual Professional Inspection:** Have a qualified HVAC technician inspect and service your furnace annually. This includes checking electrical connections, gas pressure, burner operation, and safety controls.
- **Keep Area Clear:** Ensure the area around the furnace is free from obstructions and combustible materials.

7. TROUBLESHOOTING

Many furnace control boards include diagnostic LEDs to indicate operational status or fault codes. Consult your furnace's specific manual for interpreting these codes. Below are general troubleshooting steps related to the control board:

Common Issues and Solutions:

- **No Power to Furnace:**
 - Check the circuit breaker for the furnace.
 - Ensure the furnace access panel is securely closed, as many furnaces have safety interlock switches.
- **Furnace Not Igniting:**
 - Verify the gas supply is on.
 - Check the igniter for proper operation (e.g., glowing hot surface igniter or visible spark).
 - Inspect the flame sensor for dirt or corrosion; clean if necessary.
 - Ensure the pressure switch is closing after the inducer motor starts.
- **Blower Motor Not Starting:**
 - Check if the furnace is successfully igniting and producing heat. The blower typically starts after a delay.

- Ensure the thermostat is set to "AUTO" for automatic operation or "ON" for continuous fan.
- **Repeated Cycling (Short Cycling):**
 - Check for clogged air filters, which can cause overheating.
 - Ensure proper airflow through the ductwork.

If troubleshooting steps do not resolve the issue, contact a qualified HVAC technician for further diagnosis and repair.

8. SPECIFICATIONS

Feature	Detail
Model Number	LH33WP007
Brand	OEM Replm for Carrier
Product Type	Furnace Control Board / Ignition Control
Voltage	24 Volts (DC)
Product Dimensions	6 x 6 x 6 inches
Item Weight	0.01 ounces
Manufacturer	Carrier

9. PRODUCT VIDEOS

LH33WP007 Furnace Control Circuit Board Overview

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Video 1: This video provides a visual overview of the LH33WP007 Furnace Control Circuit Board, showcasing its physical appearance and key components. It is intended to help users identify the product.

LH33WP003A Carrier Control Circuit Board Overview

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Video 2: This video presents an overview of a similar Carrier control circuit board, model LH33WP003A. While not identical, it offers a general visual reference for Carrier control board designs and components.

10. WARRANTY AND SUPPORT

For warranty information and technical support regarding your CARRIER LH33WP007 Ignition Control Board, please refer to the documentation provided with your purchase or contact the original equipment manufacturer (OEM) or your supplier. Keep your purchase receipt as proof of purchase.

Manufacturer: Carrier

