ClimaTek ST9160B1068

ClimaTek ST9160B1068 Furnace Control Board User Manual

Model: ST9160B1068

Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your ClimaTek ST9160B1068 Furnace Control Board. This upgraded control board is designed to replace specific Honeywell models, ensuring reliable performance for your furnace system. Please read all instructions carefully before proceeding with installation or service.

Important Safety Information

WARNING: Fire or Explosion Hazard

Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Always use the proper wiring harness. Refer to cross-reference information in the installation instructions and review appliance wiring diagrams before installation. This product must be installed by a qualified service technician.

Always disconnect power to the furnace before servicing or installing the control board. Failure to do so can result in electrical shock, injury, or death.

Setup and Installation

The ClimaTek ST9160B1068 furnace control board is a direct replacement part. Ensure that the power supply to the furnace is completely disconnected before beginning any installation procedures.

Pre-Installation Steps:

1. **Power Disconnection:** Turn off the main power switch to the furnace at the circuit breaker or fuse box. Verify power is off using a voltage tester.

2. **Access Old Board:** Locate and carefully remove the access panel to expose the existing furnace control board.
3. **Document Wiring:** Before disconnecting any wires, take clear photographs or make detailed diagrams of all existing wiring connections to the old control board. Pay close attention to labels such as NEUTRAL, L1, HUM, IND, CONT, EAC, COOL, HEAT, XFMR, and FUSE.
4. **Remove Old Board:** Disconnect all wires and mounting screws securing the old control board. Carefully remove it from the furnace.

Installing the New Control Board:

1. **Mount New Board:** Position the new ClimaTek ST9160B1068 control board in the same location as the old board and secure it with the appropriate mounting screws.
2. **Connect Wiring:** Using your documented wiring diagrams and photographs, carefully connect all wires to the corresponding terminals on the new control board. Ensure all connections are secure and match the original configuration. The board features clearly labeled terminals for various functions, including:
    - **NEUTRAL:** Neutral power connection.
    - **L1:** Line voltage input.
    - **HUM:** Humidifier connection.
    - **IND:** Inducer motor connection.
    - **CONT:** Continuous fan operation.
    - **EAC:** Electronic Air Cleaner connection.
    - **COOL:** Cooling demand input.
    - **HEAT:** Heating demand input.
    - **XFMR:** Transformer connection.
    - **FUSE:** Overcurrent protection.
3. **Verify Connections:** Double-check all wiring connections for accuracy and tightness. Ensure no wires are pinched or exposed.
4. **Replace Access Panel:** Once all connections are verified, replace the furnace access panel.
5. **Restore Power:** Restore power to the furnace at the circuit breaker or fuse box.



Image 1: The ClimaTek ST9160B1068 Furnace Control Board, showing various connection terminals and an included wiring harness. Key labels visible on the board include XFMR, FUSE, NEUTRAL, HUM, IND, L1, CONT, EAC, COOL, HEAT, and STATUS. A warning label regarding fire or explosion hazard is also visible on the wiring harness packaging.

Operation

The ClimaTek ST9160B1068 furnace control board operates automatically in conjunction with your thermostat and other furnace components. Once properly installed and power is restored, the board will manage the ignition sequence, blower motor operation, and other functions based on demand from the thermostat.

Status Indicator:

The control board includes a 'STATUS' indicator (often an LED) which provides diagnostic codes. Refer to your furnace's specific service manual for a detailed interpretation of these codes, as they can vary by furnace model and manufacturer. Generally, a steady light indicates normal operation, while flashing patterns indicate specific fault conditions.

Fan Delay Settings:

The board may feature adjustable fan delay settings, indicated by labels such as 'OFF DELAY' and 'THIN' (likely referring to 'TIMER IN'). These settings control the duration the blower fan runs after a heating or cooling cycle. Consult your furnace's specifications or a qualified technician for optimal settings.

Maintenance

The ClimaTek ST9160B1068 furnace control board itself requires no routine maintenance. However, regular maintenance of your overall furnace system is crucial for its longevity and efficient operation. This includes:

- **Filter Replacement:** Regularly replace or clean your furnace air filter as recommended by the furnace manufacturer.
- **System Inspection:** Have a qualified HVAC technician perform annual inspections and tune-ups of your furnace system.
- **Cleanliness:** Keep the area around your furnace clean and free of obstructions.

Troubleshooting

If your furnace is not operating correctly after installing the ClimaTek ST9160B1068 control board, consider the following troubleshooting steps. Always disconnect power before inspecting internal components.

- **No Power:** Check the circuit breaker or fuse. Ensure the furnace access panel is securely closed, as many furnaces have safety interlocks.
- **Incorrect Wiring:** Re-verify all wiring connections against your diagrams and the board's labels. Loose or incorrect connections are a common cause of issues.
- **Status Indicator Codes:** Observe the 'STATUS' indicator light on the control board. A flashing pattern indicates a fault. Consult your furnace's service manual for specific error code interpretations.
- **Blown Fuse:** Check the fuse on the control board (labeled 'FUSE'). If blown, replace it with a fuse of the exact same rating. A repeatedly blown fuse indicates a larger electrical issue that requires professional diagnosis.
- **Thermostat Issues:** Ensure your thermostat is set correctly and functioning properly.

If problems persist after basic troubleshooting, it is recommended to contact a qualified HVAC technician for further diagnosis and repair.

Specifications

Model:	ST9160B1068
Brand:	ClimaTek
Replaces:	Honeywell ST9160B1068
Product Dimensions:	Approximately 4 x 8 x 6 inches
Weight:	Approximately 15 ounces
Manufacturer:	ClimaTek

Warranty and Support

For warranty information regarding your ClimaTek ST9160B1068 Furnace Control Board, please refer to the documentation provided at the time of purchase or contact your seller directly. ClimaTek stands behind the quality of its replacement parts.

If you require technical assistance or have questions not covered in this manual, please contact the seller or a qualified HVAC professional.

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Example: How do I reset this device or fix this error?

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