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› ClimaTek Air Handler Control Board CB201 Instruction Manual

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ClimaTek Air Handler Control Board CB201 Instruction Manual

Model: CB201

Brand: ClimaTek

PRODUCT OVERVIEW

This manual provides comprehensive instructions for the installation, operation, and maintenance of the ClimaTek Air Handler Control Board, model CB201. This high-quality replacement part is designed for use in various HVAC systems, specifically compatible with First Company models with prefixes HB, MB, and UCQ.

Key Features:

- Brand New ClimaTek Air Handler Control Board
- Top Quality ClimaTek Replacement Part!
- Used in Model Prefixes HB / MB / UCQ



Figure 1: ClimaTek Air Handler Control Board CB201. This image displays the green circuit board with various electronic components, relays, and connection points, including labels like "CB201X" and "Flash=OK" LED indicator.

1. INSTALLATION AND SETUP

1.1 Safety Precautions

- Always disconnect power to the HVAC unit before attempting any installation or maintenance.
- Consult a qualified HVAC technician if you are unsure about any steps.
- Wear appropriate personal protective equipment (PPE).

1.2 Pre-Installation Check

- Verify that the new control board (CB201) matches the specifications of the original board.
- Inspect the board for any visible damage before installation.

1.3 Installation Steps

1. Carefully remove the old control board, noting the position and connection of all wires. It is recommended to take photos for reference.
2. Transfer any necessary jumpers or DIP switch settings from the old board to the new CB201 board. (Refer to the 'DIP' section on the board in Figure 1).
3. Connect all wires to the corresponding terminals on the new CB201 board. Ensure secure connections. (Refer to the various labeled connection points like 'PUMP', 'VALVE', '24V', 'COM', 'PR', 'HB', 'FP', 'W', 'G' in Figure 1).
4. Mount the new control board securely within the air handler unit.
5. Once all connections are verified, restore power to the HVAC unit.

2. OPERATION

The ClimaTek CB201 Air Handler Control Board is designed for automatic operation within your HVAC system. Once installed and powered, it manages the various functions of the air handler based on thermostat signals and internal logic.

2.1 Indicator Lights

- **Flash=OK LED:** This LED indicator (visible in Figure 1) provides diagnostic feedback. A steady flash typically indicates normal operation. Refer to your specific air handler's service manual for detailed flash codes if available.

2.2 Normal Functionality

The board will control fan operation, heating/cooling cycles, and other auxiliary functions as dictated by the thermostat and system demands.

3. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your control board and HVAC system.

- **Annual Inspection:** Have a qualified technician inspect the control board and its connections annually for signs of wear, corrosion, or loose wiring.
- **Cleaning:** Ensure the area around the control board is free from dust and debris. Use a soft brush or compressed air to gently clean the board if necessary, with power disconnected.
- **Environmental Conditions:** Ensure the air handler environment is kept within recommended temperature and humidity ranges to prevent damage to electronic components.

4. TROUBLESHOOTING

This section provides general troubleshooting tips. For complex issues, consult a professional HVAC technician.

Symptom	Possible Cause	Solution
HVAC unit not responding	No power to the board, loose connections, faulty thermostat.	Check power supply, verify all wire connections, test thermostat.
Fan not operating	Fan motor issue, wiring error, board malfunction.	Inspect fan motor, recheck fan wiring to the board, observe Flash=OK LED.

Symptom	Possible Cause	Solution
Incorrect system behavior	Incorrect DIP switch settings, thermostat misconfiguration.	Verify DIP switch settings against original board or air handler manual. Check thermostat settings.
Flash=OK LED not flashing	No power, board fault.	Ensure power is supplied. If power is present and LED is off, the board may be faulty.

5. PRODUCT SPECIFICATIONS

Attribute	Detail
Brand	ClimaTek
Model	CB201
Product Dimensions	6 x 3 x 8 inches; 5 ounces
Manufacturer	ClimaTek
ASIN	B07NSFGSZ3
Country of Origin	USA

6. WARRANTY AND SUPPORT

6.1 Warranty Information

For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact ClimaTek directly. Warranty coverage typically applies to manufacturing defects and does not cover damage due to improper installation or misuse.

6.2 Technical Support

If you require technical assistance or have questions regarding the ClimaTek Air Handler Control Board CB201, please contact ClimaTek customer support or consult a certified HVAC professional.

Note: Always ensure power is disconnected before performing any inspection or maintenance on the control board.

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