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› ClimaTek Furnace X13 Furnace Blower Motor and Module Instruction Manual

## ClimaTek HD52AR276

# ClimaTek Furnace X13 Blower Motor and Module Instruction Manual

Model: HD52AR276, MOT99 922

## INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your ClimaTek Furnace X13 Blower Motor and Module. This component is designed to fit Bryant HD52AR276 systems, ensuring efficient air circulation within your furnace. Please read this manual thoroughly before installation and retain it for future reference.

## SAFETY INFORMATION

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**WARNING:** Always disconnect power to the furnace before attempting any installation, maintenance, or repair. Failure to do so can result in serious injury or death from electrical shock.

- Installation should only be performed by a qualified HVAC technician.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure all wiring connections comply with local and national electrical codes.
- Do not operate the motor if it is damaged or has exposed wiring.

## PRODUCT OVERVIEW

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Image: The ClimaTek Furnace X13 Blower Motor and Module. This image displays the cylindrical motor unit with a central shaft extending upwards. The motor casing is black with a silver base, featuring a label with product specifications and warnings. A multi-pin connector is visible at the bottom of the motor.

The ClimaTek X13 Blower Motor is an essential component for your furnace's air circulation system. It is an electrically protected motor designed for reliable performance in HVAC applications. The module integrates with the motor to provide precise control over fan speeds and operation.

## SETUP AND INSTALLATION

1. **Power Disconnection:** Before beginning, ensure the main power supply to the furnace is completely disconnected at the circuit breaker. Verify with a voltage tester.
2. **Access Blower Compartment:** Locate and open the furnace's blower compartment access panel.
3. **Disconnect Old Motor:** Carefully disconnect all wiring from the existing blower motor and module. Note the position of each wire for correct re-connection.
4. **Remove Old Motor:** Unbolt and remove the old blower motor and module assembly from its mounting bracket.

- 5. **Install New Motor:** Position the new ClimaTek X13 Blower Motor and Module into the mounting bracket. Secure it firmly with the appropriate bolts.
- 6. **Connect Wiring:** Reconnect all wiring to the new motor and module, ensuring each connection matches the original configuration. Refer to the wiring diagram on the motor label if necessary. The connector labeled "CLGN" and pins "1 2 3 4 5" should be correctly aligned.
- 7. **Secure Access Panel:** Close and secure the blower compartment access panel.
- 8. **Restore Power:** Restore power to the furnace at the circuit breaker.
- 9. **Test Operation:** Initiate a call for heat or cool to test the blower motor's operation. Listen for unusual noises and observe airflow.

OPERATING PRINCIPLES

The ClimaTek X13 Blower Motor and Module is an electronically commutated motor (ECM) designed for variable speed operation. It receives signals from the furnace control board to adjust its speed, optimizing airflow for heating, cooling, and continuous fan operation. This precise control contributes to improved energy efficiency and consistent indoor comfort.

MAINTENANCE

The ClimaTek X13 Blower Motor is designed for minimal maintenance. However, regular inspection of the furnace system is recommended.

- **Annual Inspection:** Have a qualified technician inspect the motor and module annually as part of routine furnace maintenance.
- **Cleanliness:** Ensure the blower compartment remains free of dust and debris, which can impede airflow and motor performance.
- **Wiring Check:** Periodically check all wiring connections for tightness and signs of wear or corrosion.

TROUBLESHOOTING

| Problem                   | Possible Cause                                                            | Solution                                                                                                        |
|---------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Motor does not start      | No power; Incorrect wiring; Faulty control board; Motor or module failure | Check circuit breaker; Verify wiring connections; Consult HVAC technician for control board or motor diagnosis. |
| Motor runs intermittently | Overheating (blocked airflow); Loose connections; Control board issue     | Ensure clear airflow around motor; Check wiring; Consult HVAC technician.                                       |
| Unusual noises from motor | Debris in blower; Worn bearings (unlikely for new motor); Loose mounting  | Inspect blower for debris; Ensure motor is securely mounted; If noise persists, consult HVAC technician.        |

For issues not listed above or if troubleshooting steps do not resolve the problem, contact a qualified HVAC professional.

SPECIFICATIONS

**Product Dimensions:** 7 x 15 x 7 inches  
**Item Weight:** 17.1 Pounds (273.6 Ounces)  
**Manufacturer:** ClimaTek

**ASIN:** B08PS62W6K

**Voltage:** 115/208-230 VAC

**Frequency:** 60/50 Hz

**Frame:** 48Y Frame

**Electrically Protected Motor:** Yes

WARRANTY INFORMATION

ClimaTek products are manufactured to high standards. For specific warranty terms and conditions applicable to your ClimaTek Furnace X13 Blower Motor and Module, please refer to the documentation included with your purchase or visit the official ClimaTek website. Protection plans may also be available for extended coverage.

CUSTOMER SUPPORT

For technical assistance, replacement parts, or further inquiries, please contact ClimaTek customer support. You can find contact information on the official ClimaTek website or through your authorized dealer. Visit the [ClimaTek Store on Amazon](#) for more product information.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

