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Trane Parts MOT-18975

Trane American Standard Furnace Blower Motor MOT-18975 User Manual

Brand: Trane Parts

1. Introduction

This document provides instructions for the proper installation, operation, and maintenance of the Trane American Standard OEM Furnace Blower Motor, model MOT-18975. This motor is a critical component for HVAC systems, designed for reliable performance in compatible furnace units.

2. Safety Information

WARNING: Electrical shock hazard. Disconnect power before servicing.

- Always disconnect power to the furnace at the main circuit breaker before attempting any installation, maintenance, or repair.
- Installation should be performed by a qualified HVAC technician in accordance with all local and national electrical codes.
- Wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves, during installation and servicing.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits or electrical hazards.
- Do not operate the motor if it is visibly damaged, if any components are missing, or if it has been exposed to water.

3. Product Overview

The MOT-18975 is an Original Equipment Manufacturer (OEM) blower motor specifically designed for Trane and American Standard furnace systems. It is engineered to meet the precise specifications required for optimal performance in these units.

- **Horsepower:** 1/4 HP
- **Voltage:** 200-230V, 60Hz, Single Phase
- **RPM:** 1075 RPM
- **Frame Type:** 39 Frame
- **Motor Type:** PSC (Permanent Split Capacitor)

- **Rotation:** CCW (Counter-Clockwise)
- **Bearing Type:** Sleeve Bearing
- **Capacitor Requirement:** 10 MFD at 370V (RNG02600 included)



Image showing a blue and red stamp with the text 'TRANE OEM COMPONENT' indicating the motor is an Original Equipment Manufacturer part.

4. Installation Instructions

Follow these steps carefully for proper installation. If you are unsure about any step, consult a qualified technician.

1. **Power Disconnection:** Before beginning any work, 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 blower compartment access panel on your furnace. This may require removing screws or latches.
3. **Remove Old Motor:** Disconnect all electrical wiring from the existing blower motor. Carefully unmount and remove the old motor from its housing. Pay attention to the mounting method and the orientation of the motor and blower wheel for reference.
4. **Capacitor Replacement:** The new motor requires a 10 MFD/370VAC capacitor (RNG02600), which is included. Replace the existing capacitor with the new one, ensuring correct wiring connections as per the furnace's wiring diagram.
5. **Mount New Motor:** Install the new MOT-18975 motor into the blower housing. Ensure it is securely fastened using the appropriate mounting hardware. The motor should be aligned correctly with the blower wheel.
6. **Wire Connections:** Connect the motor wiring according to the furnace's wiring diagram. Double-check all connections for tightness and proper insulation.
7. **Verify Rotation:** Briefly restore power to the furnace (with caution) to verify the motor's counter-clockwise (CCW) rotation. If the rotation is incorrect, disconnect power and adjust wiring as necessary (consult wiring diagram).
8. **Secure Access Panel:** Once installation is complete and verified, securely close the blower compartment access panel.
9. **Restore Power:** Restore power to the furnace at the main circuit breaker.

5. Operation

The Trane American Standard Furnace Blower Motor MOT-18975 operates automatically as an integral part of your furnace system. It is designed to move conditioned air through the ductwork when the furnace calls for heating or cooling. No direct user interaction is typically required for its operation once installed.
To ensure optimal performance and longevity of the motor, regularly check and replace your furnace air filter. A clean filter allows for proper airflow, reducing strain on the motor.

6. Maintenance

Regular maintenance helps ensure the efficiency and lifespan of your blower motor.

- **Regular Inspection:** Periodically inspect the motor for any signs of wear, damage, or unusual noise. Look for loose wires or debris accumulation.
- **Cleanliness:** Keep the motor and the blower wheel free from dust, lint, and other debris. Accumulation can lead to overheating and reduced efficiency. Use a soft brush or vacuum cleaner for cleaning.
- **Bearing Check:** This motor features sleeve bearings. While generally maintenance-free, listen for any unusual squealing or grinding noises that might indicate bearing issues. If such noises occur, professional inspection is recommended.
- **Capacitor Check:** If the motor fails to start, starts slowly, or hums without rotating, inspect the capacitor for signs of bulging, leakage, or physical damage. A faulty capacitor is a common cause of motor starting problems and should be tested and replaced by a qualified technician if necessary.

7. Troubleshooting

This section provides solutions to common issues you might encounter with your blower motor.

Symptom	Possible Cause	Solution
Motor does not start.	No power supply, faulty capacitor, seized bearings, incorrect wiring.	Check power supply to the furnace. Test and replace the capacitor if faulty. Inspect bearings for obstruction or damage. Verify wiring connections against the furnace diagram.
Motor runs slowly or hums but does not reach full speed.	Faulty capacitor, low voltage supply, excessive load on the motor.	Test and replace the capacitor. Check the voltage supply to the motor. Ensure the blower wheel is clean and free from obstructions.
Excessive noise or vibration from the motor.	Loose mounting bolts, worn bearings, unbalanced blower wheel, debris in blower.	Tighten all mounting bolts. Inspect and replace the motor if bearings are worn. Clean the blower wheel thoroughly.
Motor overheats and shuts off.	Restricted airflow, excessive load, continuous operation without proper cooling.	Clean or replace the furnace air filter. Ensure all air ducts are clear and unobstructed. Verify the motor is correctly sized for the application.

8. Technical Specifications

- **Model Number:** MOT-18975 (Replaces MOT-2611, MOT2611)
- **Horsepower (HP):** 1/4 HP (0.25 HP)
- **Voltage:** 200-230V
- **Frequency:** 60 Hz

- **Phase:** Single Phase
- **RPM:** 1075 RPM
- **Frame:** 39 Frame
- **Type:** PSC (Permanent Split Capacitor)
- **Rotation:** CCW (Counter-Clockwise)
- **Bearing Type:** Sleeve Bearing
- **Capacitor:** 10 MFD at 370V (RNG02600 included)
- **Manufacturer:** Trane Parts

9. Compatible Furnace Units

This Trane American Standard OEM blower motor (MOT-18975) is commonly found in or compatible with the following furnace units:

- AHVB0211AAA0
- BEV024A100A0
- BWV724A100A0, BWV724A100A1, BWV724A100B0, BWV724A100D0, BWV724A100D1, BWV724A100D2, BWV724A100E0
- BWV724P100A0, BWV724P100D0, BWV724P100D1, BWV724P100D2, BWV724P100E0
- BWV824B100X0
- TEV025A100A0, TEV025B100A0, TEV025B100B0, TEV025B100B1
- TVF025A140A0, TVF025A140A1
- TWE024C140A0, TWE024C140B0, TWE024C14FA0, TWE024C14FB0
- TWE024P130A0, TWE024P13FA0
- TWV025A140A0, TWV025B140A0, TWV025B140A1
- TWV725A140A0, TWV725B140A0

10. Warranty and Support

For specific warranty information regarding your Trane American Standard OEM Furnace Blower Motor MOT-18975, please refer to the official documentation provided with your original furnace system or contact an authorized Trane/American Standard dealer. Technical support can also be obtained through authorized service providers.

This manual is for informational purposes only. Always consult a qualified HVAC technician for installation and service to ensure safety and proper operation.

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