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› [Trane / Service First Furnace Blower Motor Instruction Manual for Model TDD060R936F0 \(1/3 HP, 1075 RPM, 115V\)](#)

**Trane / Service First TDD060R936F0**

# Trane / Service First Furnace Blower Motor Instruction Manual

Model: TDD060R936F0 (Item Model Number: MOT18948\_v\_12)

## INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Trane / Service First Furnace Blower Motor. Please read these instructions thoroughly before proceeding with any installation or service.

This motor is a genuine OEM component designed for specific American Standard and Trane furnace units. Refer to the specifications section for detailed electrical and physical characteristics.

## SAFETY INFORMATION

**WARNING: Electrical shock hazard. Disconnect power before servicing. Installation and service should only be performed by a qualified technician.**

- Always disconnect power to the furnace unit before attempting any installation, maintenance, or repair.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure all wiring connections comply with local and national electrical codes.
- Verify correct voltage and current ratings before connecting the motor.

## SETUP AND INSTALLATION

This section outlines the general steps for installing the blower motor. Specific furnace models may have unique installation requirements. Always consult the furnace manufacturer's service manual for detailed instructions.

### 1. Preparation:

- Ensure the furnace power supply is disconnected at the circuit breaker.
- Access the blower compartment of the furnace.
- Carefully remove the old blower motor, noting all wiring connections and mounting positions.

### 2. Motor Inspection:

Inspect the new motor for any shipping damage. Verify that the motor specifications match the requirements of your furnace unit.



Image: The Trane / Service First OEM blower motor as packaged in its box, indicating it is a genuine replacement part.



Image: A stamp indicating "Trane OEM Component," verifying the authenticity of the part.

### 3. Mounting:

Mount the new motor securely in the blower housing. This motor typically requires resilient rings (RNG00957) for installation, which are not supplied with the motor and must be acquired separately.

#### 4. Wiring:

Connect the motor wiring according to the furnace manufacturer's schematic. Ensure all connections are tight and properly insulated. This motor is a Permanent Split Capacitor (PSC) type and requires a capacitor (5 MFD at 370V) which may need to be replaced if not already present or if the existing one is faulty.

#### 5. Final Checks:

- Verify that the blower wheel is securely attached to the motor shaft and spins freely without obstruction.
- Ensure all access panels are reinstalled before restoring power.

## OPERATING INSTRUCTIONS

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Once installed, the blower motor operates automatically in conjunction with the furnace's control board. No direct user interaction is typically required for motor operation.

1. **Power Restoration:** Restore power to the furnace unit at the circuit breaker.
2. **Initial Start-up:** Set the thermostat to initiate a heating or cooling cycle. Observe the blower motor for smooth operation and listen for any unusual noises.
3. **Airflow Verification:** Confirm that air is flowing through the supply registers.

*Note: This motor is designed for continuous counter-clockwise (CCW) rotation when viewed from the shaft end.*

## MAINTENANCE

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The Trane / Service First blower motor is designed for reliable operation with minimal maintenance. However, periodic checks can help ensure longevity and efficiency.

- **Annual Inspection:** Have a qualified HVAC technician inspect the motor and blower assembly annually.
- **Cleanliness:** Ensure the blower wheel and motor are free from dust and debris. Excessive buildup can reduce efficiency and cause premature wear.
- **Bearings:** This motor features sleeve bearings, which are typically sealed and do not require lubrication. Do not attempt to lubricate sealed bearings.
- **Capacitor Check:** The motor's capacitor (5 MFD at 370V) should be checked periodically by a technician for proper capacitance, as a failing capacitor can lead to motor starting issues or overheating.

## TROUBLESHOOTING

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This section provides basic troubleshooting steps for common issues. For complex problems, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Motor does not start	No power, faulty capacitor, seized bearings, wiring error.	Check circuit breaker. Inspect capacitor (by technician). Check for obstructions. Verify wiring.
Motor runs but no airflow	Blower wheel loose or damaged, obstruction in ductwork.	Inspect blower wheel for secure attachment and damage. Check air filters and ductwork.
Unusual noises (grinding, squealing)	Worn bearings, debris in blower wheel, motor rubbing.	Disconnect power and inspect for debris. If noise persists, motor or bearings may need replacement (by technician).

Problem	Possible Cause	Solution
Motor overheats	Restricted airflow, incorrect voltage, faulty capacitor, excessive load.	Check air filters and ductwork for restrictions. Verify voltage. Have capacitor checked.

## SPECIFICATIONS

The following are the technical specifications for the Trane / Service First Furnace Blower Motor, Model TDD060R936F0 (Item Model Number: MOT18948\_v\_12).

- **Horsepower (HP):** 1/3 HP (0.33 Horsepower)
- **Voltage:** 115V
- **Frequency:** 60 Hz
- **Phase:** 1
- **RPM:** 1075 RPM
- **Motor Type:** Permanent Split Capacitor (PSC)
- **Rotation:** Counter-Clockwise (CCW) when viewed from shaft end
- **Frame Size:** 48 Frame
- **Bearings:** Sleeve Bearings
- **Full Load Amps (FLA):** 5.8 A
- **Locked Rotor Amps (LRA):** 12.5 A
- **Capacitor Requirement:** 5 MFD at 370V (Capacitor not supplied with motor)
- **Item Weight:** 150 Pounds *(Note: This weight may refer to shipping weight or a data entry. Actual motor weight is typically less.)*
- **Manufacturer:** Trane / Service First
- **ASIN:** B08C5LS2RB
- **Date First Available:** July 1, 2020

### Commonly Found In (Partial List):

- ADD060R936E0, ADD1B080A9361AA, CUC060A936A5, CUX060A936A0, TDD060R936E0, TDD060R936F0, TDD080C936F0, TUD060C936K0, TUD1A060A9361AA, TUD1B060A9361AA, TUD2A060A9362AA, etc. (Refer to product description for a more comprehensive list of compatible units.)

### Replaces / Supersedes (Partial List):

- MOT4722, MOT-4722, MOT04722, MOT13512, MOT-13512, MOT16953, MOT-16953, MOT04716, MOT4716, MOT-4716, MOT9053, MOT-9053, 5KCP39HGS599S, and others.

## WARRANTY INFORMATION

Specific warranty details for this Trane / Service First OEM component are not provided in the available product information. For warranty inquiries, please refer to the documentation included with your purchase or contact Trane / Service First directly.

## SUPPORT

For technical assistance, installation guidance, or parts inquiries, please contact a qualified HVAC professional or the manufacturer:

- **Manufacturer:** Trane / Service First
- Refer to the official Trane or American Standard websites for contact information and authorized service centers.