

70218208

Generic 70218208 Furnace Exhaust Inducer Motor Instruction Manual

1. INTRODUCTION

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of the Generic 70218208 Furnace Exhaust Inducer Motor. Please read this manual thoroughly before attempting any procedures. Proper understanding and adherence to these instructions are crucial for optimal performance and safety.

2. SAFETY INFORMATION

WARNING: Installation and servicing of this furnace exhaust inducer motor must be performed by a qualified service technician. Failure to follow these instructions could result in property damage, personal injury, or death.

- Always disconnect power to the furnace before installing, servicing, or cleaning the inducer motor.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure all electrical connections are secure and comply with local electrical codes.
- Do not operate the furnace if the inducer motor is damaged or malfunctioning.
- Keep children and pets away from the furnace area during installation and operation.

3. PRODUCT OVERVIEW

The 70218208 Furnace Exhaust Inducer Motor is a critical component designed to facilitate the safe and efficient expulsion of exhaust gases from your furnace. Modern high-efficiency furnaces have restrictive heat exchangers, requiring an inducer motor to pull flue gases through the system and out of the unit. This motor typically initiates operation when the furnace calls for heat.



Figure 1: Generic 70218208 Furnace Exhaust Inducer Motor. This image shows the complete inducer motor assembly, including the motor housing, fan, and mounting plate.

This motor is constructed for heavy-duty use, ensuring reliable operation in demanding industrial environments. Its design allows for seamless integration and precise compatibility with existing furnace systems, making it suitable for straightforward replacements. The unit is engineered for enhanced energy efficiency, reducing power consumption while maintaining consistent torque and output. Furthermore, its simplified maintenance design provides quick access to critical components, aiming to minimize operational downtime.

4. SETUP AND INSTALLATION

IMPORTANT: Installation should only be performed by a certified HVAC technician. Incorrect installation can lead to system malfunction, safety hazards, and voiding of warranties.

1. **Power Disconnection:** Turn off all electrical power to the furnace at the main service panel. Verify power is off using a voltage tester.
2. **Access Old Motor:** Locate and access the existing inducer motor within the furnace. This may require removing access panels.
3. **Disconnect Wiring and Ductwork:** Carefully disconnect the electrical wiring from the old motor. Note the wiring configuration for reinstallation. Disconnect any attached exhaust ductwork or hoses.
4. **Remove Old Motor:** Unbolt and remove the old inducer motor from its mounting.
5. **Inspect Mounting Area:** Clean the mounting surface and inspect for any damage or debris.
6. **Install New Motor:** Position the new 70218208 inducer motor and secure it with the appropriate bolts. Ensure a tight and stable fit.

7. **Reconnect Ductwork:** Reattach the exhaust ductwork and hoses, ensuring all connections are sealed to prevent leaks.
8. **Reconnect Wiring:** Connect the electrical wiring to the new motor, matching the configuration noted during removal. Double-check all connections for security.
9. **Test Operation:** Restore power to the furnace. Initiate a call for heat and observe the inducer motor's operation. Ensure it starts smoothly, runs quietly, and effectively expels exhaust gases. Check for any unusual noises or vibrations.
10. **Final Checks:** Replace all access panels.

5. OPERATING PRINCIPLES

The 70218208 Furnace Exhaust Inducer Motor operates in conjunction with your furnace's control system. When the thermostat calls for heat, the furnace control board first activates the inducer motor. The motor creates a negative pressure (draft) within the heat exchanger, pulling combustion byproducts through the system and out of the exhaust vent. A pressure switch monitors this draft; if sufficient draft is established, the pressure switch closes, signaling the control board to proceed with ignition. This sequence ensures that combustion gases are safely vented before the main burner ignites, preventing dangerous conditions.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your inducer motor and furnace system. It is recommended that a qualified technician perform annual furnace inspections and maintenance.

- **Annual Inspection:** Have a qualified technician inspect the inducer motor annually for signs of wear, corrosion, or damage.
- **Cleaning:** Over time, the fan blades and housing may accumulate dust or debris. With power disconnected, a technician can carefully clean these components to ensure unrestricted airflow.
- **Vibration Check:** During operation, listen for any unusual noises or excessive vibrations, which could indicate a problem with the motor bearings or fan.
- **Exhaust Vent Check:** Ensure the exhaust vent pipe connected to the inducer motor is clear of obstructions (e.g., bird nests, ice, debris).

7. TROUBLESHOOTING

If your furnace is not operating correctly, the inducer motor may be a contributing factor. Always consult a qualified technician for diagnosis and repair.

Problem	Possible Cause	Suggested Action (for qualified technician)
Inducer motor does not start.	No power, faulty wiring, seized motor, faulty control board.	Check power supply, inspect wiring connections, test motor for continuity, check control board output.
Inducer motor starts but furnace does not ignite.	Faulty pressure switch, obstructed exhaust vent, faulty igniter, low gas pressure.	Verify pressure switch operation, clear vent, test igniter, check gas supply.
Loud noises or vibrations from motor.	Worn bearings, unbalanced fan, debris in housing, loose mounting.	Inspect bearings, clean fan, tighten mounting bolts. Replacement may be necessary.

Problem	Possible Cause	Suggested Action (for qualified technician)
Motor runs continuously.	Faulty pressure switch, faulty control board.	Test pressure switch, diagnose control board.

8. SPECIFICATIONS

The following specifications are provided for the Generic 70218208 Furnace Exhaust Inducer Motor:

- **Model Number:** 70218208
- **Brand:** Generic
- **Manufacturer:** Generic
- **ASIN:** B0G4R7RTGT
- **Compatibility:** Replaces 7021-8208, 7002-2290, 70022290, 1013833, and various Heil FASCO furnace models (refer to product description for partial list).
- **Function:** Furnace Draft Inducer / Exhaust Vent Venter Motor

9. WARRANTY AND SUPPORT

For specific warranty information regarding your 70218208 Furnace Exhaust Inducer Motor, please refer to the documentation provided at the time of purchase or contact the seller directly. Warranty terms typically cover manufacturing defects for a specified period.

For technical support, installation assistance, or troubleshooting beyond the scope of this manual, it is highly recommended to contact a qualified HVAC professional. They possess the necessary expertise and tools to safely diagnose and resolve issues related to furnace components.