

Fasco A197

Fasco A197 Draft Inducer Blower User Manual

Model: A197 | OEM Replacement for Trane 7092-0238, D342097P01

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Fasco A197 Draft Inducer Blower. The Fasco A197 is a specific purpose blower designed for HVAC systems, functioning as a draft inducer to ensure proper exhaust of combustion gases. It serves as a direct OEM replacement for Trane part numbers 7092-0238 and D342097P01.

Please read this manual thoroughly before attempting any installation or operation to prevent potential hazards and ensure optimal performance of the unit.

2. SAFETY INFORMATION

WARNING: Always disconnect power to the HVAC system before installing, servicing, or cleaning the draft inducer blower to prevent electrical shock or injury.

- Installation and service should only be performed by qualified HVAC technicians.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not operate the blower if it is damaged or malfunctioning.
- Keep hands and loose clothing away from moving parts.
- **California Proposition 65 Warning:** This product may contain materials cautioned by California Proposition 65.

3. PRODUCT DESCRIPTION AND FEATURES

The Fasco A197 is a robust draft inducer blower designed for reliable performance in heating, ventilation, and air conditioning (HVAC) systems. Its primary function is to draw combustion gases out of the furnace heat exchanger and vent them safely to the outside, while also maintaining proper air pressure within the system.



Figure 1: Front-side view of the Fasco A197 Draft Inducer Blower. This image shows the main housing and motor assembly.

Key Features:

- **High-Performance Motor:** Features a powerful variable speed motor operating between 1500-4700 RPM, delivering consistent and reliable airflow for optimal draft induction.
- **Wide Voltage Range:** Operates efficiently across a broad voltage spectrum of 33-110 Volts, providing flexible installation options and compatibility with various electrical configurations.
- **OEM Replacement Part:** Designed as a direct replacement for Trane part numbers 7092-0238 and D342097P01, ensuring precise fit and seamless integration with existing Trane heating and cooling systems.
- **Draft Inducer Function:** Specifically engineered to safely exhaust combustion gases from furnaces while maintaining proper air pressure and ventilation throughout the heating cycle.
- **Quality Construction:** Built with durable materials designed to withstand the demanding conditions of continuous HVAC operation, providing long-lasting performance.
- **Lightweight Design:** Contributes to easier handling and installation.

4. SETUP AND INSTALLATION

Installation of the Fasco A197 Draft Inducer Blower should only be performed by a certified HVAC professional. Incorrect installation can lead to system malfunction, safety hazards, or damage to the unit.

General Installation Steps (for qualified personnel):

1. **Power Disconnection:** Turn off all electrical power to the furnace or HVAC unit at the main breaker. Verify power is off using a voltage meter.
2. **Access Old Blower:** Locate and access the existing draft inducer blower within the furnace.
3. **Disconnect Wiring:** Carefully disconnect the electrical wiring from the old blower, noting the connections for reinstallation.
4. **Remove Old Blower:** Unbolt and remove the old draft inducer blower from its mounting.
5. **Install New Blower:** Mount the Fasco A197 in the same position as the old unit, ensuring a secure fit.
6. **Connect Wiring:** Reconnect the electrical wiring to the new Fasco A197 blower, ensuring all connections are tight and correct. Refer to the furnace's wiring diagram if necessary.
7. **Check for Obstructions:** Ensure no debris or foreign objects are present in the blower housing or exhaust path.
8. **Restore Power:** Once installation is complete and verified, restore power to the HVAC system.
9. **Test Operation:** Initiate a heating cycle to confirm the new draft inducer blower operates correctly and the furnace functions as expected. Check for proper exhaust and absence of unusual noises.



Figure 2: Side view of the Fasco A197, highlighting the exhaust port. Ensure proper alignment with the furnace's exhaust system during installation.



Figure 3: Rear view of the Fasco A197, showing the electrical connector. Ensure all wiring is correctly and securely attached.

5. OPERATING INSTRUCTIONS

The Fasco A197 Draft Inducer Blower operates automatically as part of your furnace's heating cycle. When the thermostat calls for heat, the furnace control board initiates the draft inducer blower. This creates a negative pressure (draft) in the combustion chamber, drawing in fresh air for combustion and expelling exhaust gases.

- The blower will start before the main burner ignites and continue to run for a short period after the burner shuts off to purge any remaining combustion gases.
- Listen for smooth operation. Any unusual noises (grinding, squealing) may indicate a problem.
- Ensure the exhaust vent is clear and unobstructed to allow proper gas expulsion.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your Fasco A197 Draft Inducer Blower. All maintenance should be performed by a qualified technician.

Recommended Maintenance:

- **Annual Inspection:** Have a qualified technician inspect the blower annually, typically as part of routine furnace maintenance.
- **Cleaning:** Over time, dust and debris can accumulate on the blower wheel and housing. A technician can carefully clean these components to maintain airflow and efficiency.
- **Check for Wear:** Inspect for any signs of wear on the motor, bearings, or housing. Replace the unit if significant wear or damage is observed.
- **Verify Electrical Connections:** Ensure all electrical connections remain tight and free from corrosion.

7. TROUBLESHOOTING

If you experience issues with your Fasco A197 Draft Inducer Blower, consult a qualified HVAC technician. Attempting repairs without proper knowledge and tools can be dangerous.

Common Issues and Potential Causes:

- **Blower Not Starting:**

- No power to the furnace.
- Faulty wiring connection.
- Defective motor or control board.
- Blocked pressure switch hose.

- **Unusual Noises (Grinding, Squealing):**

- Worn motor bearings.
- Debris in the blower wheel.
- Loose mounting.

- **Furnace Not Igniting:**

- Draft inducer not creating sufficient draft (may be faulty or obstructed).
- Pressure switch malfunction.

For any of these issues, it is recommended to contact a professional HVAC technician for diagnosis and repair.

8. SPECIFICATIONS

Attribute	Value
Brand	Fasco
Model Number	A197
OEM Replacement For	Trane 7092-0238, D342097P01
Voltage Range	33-110 Volts
RPM Range	1500-4700 RPM
Included Components	1/70 HP Draft Inducer Trane
Item Weight	6.05 Pounds (approx. 2.74 kg)
Noise Level	69 Decibels
Manufacturer	Precision Electric Motor Sales
UPC	733353558491

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your Fasco A197 Draft Inducer Blower, please contact the manufacturer, Precision Electric Motor Sales, or your authorized Fasco dealer.

When contacting support, please have your model number (A197) and any relevant purchase information readily available.

ASK A QUESTION ABOUT THIS MANUAL

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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.

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