

Fasco 1013833

Fasco 1013833 ICP Furnace Draft Inducer Motor Replacement Manual

Model: 1013833

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of the Fasco 1013833 ICP Furnace Draft Inducer Motor. This component is designed as a replacement part for various furnace systems, ensuring proper exhaust ventilation. Please read this manual thoroughly before proceeding with installation or maintenance to ensure safe and correct usage.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Always disconnect electrical power to the furnace before attempting any installation, service, or maintenance.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Ensure all wiring connections are secure and conform to local electrical codes.
- Do not operate the furnace if any components are damaged or improperly installed.
- If you are unsure about any part of the installation process, consult a qualified HVAC technician.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- 1x Fasco 1013833 Draft Inducer Motor Assembly
- 2x Gaskets (typically included for sealing)



Figure 1: Fasco 1013833 Draft Inducer Motor assembly, including the motor housing, fan, and two circular white gaskets.

Note: The physical appearance of the motor housing may vary slightly from the image shown, but the part is designed for correct installation and function.

4. INSTALLATION INSTRUCTIONS

Follow these steps carefully for proper installation:

1. **Disconnect Power:** Turn off all electrical power to the furnace at the main breaker or fuse box. Verify power is off using a voltage tester.
2. **Access Inducer Motor:** Locate the existing draft inducer motor on your furnace. This is typically found near the exhaust vent.
3. **Disconnect Wiring:** Carefully disconnect the electrical wiring from the old motor. Note the position of each wire for correct re-connection. Taking a photograph can be helpful.
4. **Remove Old Motor:** Unbolt or unscrew the old inducer motor from its mounting bracket or furnace housing. Be prepared for potential condensate or debris.
5. **Clean Mounting Surface:** Clean any old gasket material or debris from the furnace's mounting surface to ensure a proper seal with the new gaskets.
6. **Install New Gaskets:** Place the new gaskets onto the mounting surface or directly onto the new inducer

motor, ensuring they are properly aligned.

7. **Mount New Motor:** Position the new Fasco 1013833 inducer motor onto the furnace, aligning it with the bolt holes. Secure it with the appropriate bolts or screws. Do not overtighten.
8. **Connect Wiring:** Reconnect the electrical wiring to the new motor, matching the connections noted in step 3. Ensure all connections are tight and secure. The motor typically uses a 3-pin power connector.
9. **Inspect Installation:** Double-check all connections, mounting, and seals to ensure everything is correctly installed and secure.
10. **Restore Power:** Restore electrical power to the furnace.
11. **Test Operation:** Initiate a heating cycle on your furnace and observe the new inducer motor's operation. Listen for unusual noises and check for proper exhaust ventilation.

5. OPERATING VERIFICATION

After installation, the inducer motor should operate smoothly and quietly, drawing combustion gases out of the furnace heat exchanger and venting them safely. The furnace's pressure switch will confirm proper draft before allowing the main burner to ignite.

- Observe the motor during startup for any unusual vibrations or excessive noise.
- Ensure the furnace cycles on and off normally without error codes related to draft or ignition.

6. MAINTENANCE

The Fasco 1013833 inducer motor is generally a sealed unit requiring minimal maintenance. However, regular inspection of the overall furnace system is recommended.

- **Annual Inspection:** Have a qualified technician inspect your furnace annually, including the inducer motor, for signs of wear, corrosion, or blockages in the exhaust vent.
- **Cleanliness:** Keep the area around the furnace and the inducer motor free from dust and debris to ensure proper airflow.
- **Noise Monitoring:** Pay attention to any changes in the motor's operating sound. Increased noise can indicate a failing bearing or impeller issue.

7. TROUBLESHOOTING

If you encounter issues after installing the Fasco 1013833 inducer motor, consider the following:

Symptom	Possible Cause	Solution
Motor does not start	No power, loose wiring, faulty pressure switch, motor defect.	Check furnace power supply. Verify all electrical connections. Inspect pressure switch hose for blockages. If issues persist, consult a technician.
Excessive noise or vibration	Improper mounting, damaged impeller, bearing wear.	Ensure motor is securely mounted. Inspect impeller for damage or debris. If noise continues, the motor may need replacement.
Furnace not igniting	Insufficient draft, faulty pressure switch, blocked exhaust vent.	Verify inducer motor is running. Check pressure switch hose for cracks or blockages. Inspect exhaust vent for obstructions.

For complex issues or if troubleshooting steps do not resolve the problem, it is recommended to contact a certified

HVAC professional.

8. SPECIFICATIONS

- **Model:** 1013833
- **Brand:** Fasco
- **Material:** Metal
- **Power Connector Type:** 3-Pin
- **Cooling Method:** Forced Air
- **Compatible Devices:** Residential and Commercial Furnaces
- **Product Dimensions:** 6 x 6 x 6 inches
- **Product Weight:** 6.1 Pounds

9. WARRANTY AND SUPPORT

Specific warranty information for this replacement part is typically provided by the seller or manufacturer at the time of purchase. Please refer to your purchase documentation for details regarding warranty coverage.

For technical support or further assistance, please contact the vendor from whom you purchased this product or a qualified HVAC technician.