

Fasco A178

FASCO A178 Induced Draft Blower User Manual

Model: A178

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the FASCO A178 Induced Draft Blower. This component is designed to facilitate the exhaust of combustion gases in heating systems by creating a negative pressure within the combustion chamber. Please read this manual thoroughly before attempting any procedures.

1.1 Safety Information

- **Electrical Hazard:** Always disconnect power to the heating appliance before installing, servicing, or cleaning the blower. Failure to do so can result in electric shock, injury, or death.
- **Moving Parts:** Keep hands, hair, and clothing clear of moving parts during operation or when power is connected.
- **Qualified Personnel:** Installation and servicing should only be performed by qualified HVAC technicians or electricians.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses and gloves, during installation and maintenance.
- **Original Equipment Manufacturer (OEM) Instructions:** Always refer to the specific installation and safety guidelines provided by the heating appliance's OEM (e.g., ICP) when replacing or servicing this component.



Image of the FASCO A178 Induced Draft Blower, a component designed to create a negative pressure in a combustion chamber, facilitating the exhaust of flue gases.

2. SETUP AND INSTALLATION

The FASCO A178 Induced Draft Blower is a critical component of a heating system. Proper installation is essential for safe and efficient operation. It is strongly recommended that installation be performed by a certified HVAC professional.

2.1 Pre-Installation Checks

- Verify that the FASCO A178 is the correct replacement part for your heating appliance.
- Inspect the blower for any shipping damage. Do not install if damaged.
- Ensure all necessary tools and safety equipment are available.

2.2 Installation Steps (General Guidelines)

1. **Disconnect Power:** Turn off all electrical power to the heating appliance at the main service panel. Confirm power is off using a voltage tester.
2. **Access Blower:** Carefully remove any access panels or components required to reach the existing induced draft blower.
3. **Disconnect Wiring:** Label and disconnect all electrical wiring from the old blower. Note the position of each wire.
4. **Remove Old Blower:** Unfasten and remove the mounting hardware securing the old blower. Carefully detach it from the flue pipe connection.
5. **Mount New Blower:** Position the new FASCO A178 blower, ensuring proper alignment with the flue pipe and mounting points. Secure it with appropriate hardware.
6. **Connect Wiring:** Reconnect the electrical wiring to the new blower, matching the labels from the old unit. Ensure all connections are secure.
7. **Seal Connections:** Apply high-temperature sealant or gaskets as required by the OEM to ensure an airtight seal at the flue connections.
8. **Restore Access:** Replace any removed access panels or components.
9. **Test System:** Restore power to the heating appliance and perform a functional test according to the appliance manufacturer's instructions to ensure proper operation and absence of leaks.

3. OPERATING INSTRUCTIONS

The FASCO A178 Induced Draft Blower operates automatically as part of your heating system's combustion process. It does not require direct user interaction for operation.

3.1 Normal Operation

- When the thermostat calls for heat, the heating system's control board will activate the induced draft blower.
- The blower will draw air through the combustion chamber and push exhaust gases out through the flue. This creates a negative pressure, ensuring safe and efficient combustion.
- Once the combustion cycle is complete, the blower will typically run for a short post-purge cycle before shutting off.

Listen for smooth, consistent operation. Any unusual noises or vibrations should be investigated by a qualified technician.

4. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your FASCO A178 Induced Draft Blower. All maintenance should be performed by a qualified technician.

4.1 Recommended Maintenance Schedule

- **Annually:** During routine heating system servicing, have a technician inspect the induced draft blower.

4.2 Maintenance Procedures (Technician Only)

- **Inspection:** Check the blower wheel for accumulation of soot, dust, or debris. Inspect the motor for signs of wear or overheating.
- **Cleaning:** If necessary, carefully clean the blower wheel and housing. Ensure no debris obstructs airflow or causes imbalance.
- **Wiring Check:** Verify all electrical connections are secure and free from corrosion.
- **Vibration Check:** Ensure the blower is securely mounted and operating without excessive vibration.
- **Pressure Switch Check:** Confirm the associated pressure switch is functioning correctly, as it relies on the blower's operation.

Do not attempt to lubricate sealed bearings, as this can damage the motor.

5. TROUBLESHOOTING

If your heating system is not operating correctly, the induced draft blower may be a contributing factor. The following are common issues and potential causes. For safety, always consult a qualified technician for diagnosis and repair.

5.1 Common Issues

Symptom	Possible Cause	Action (Technician Recommended)
Blower does not start	No power, faulty wiring, seized motor, faulty control board, faulty pressure switch.	Check power supply, inspect wiring, test motor, test control board and pressure switch.
Blower runs but furnace does not ignite	Faulty pressure switch, obstructed flue, blocked intake, faulty igniter.	Verify pressure switch operation, check for flue/intake obstructions, inspect igniter.
Unusual noises (grinding, squealing)	Worn bearings, debris in blower wheel, unbalanced wheel.	Inspect blower wheel for debris, check motor bearings for wear. Replacement may be necessary.

Symptom	Possible Cause	Action (Technician Recommended)
Blower runs continuously	Faulty control board, stuck relay, faulty pressure switch.	Diagnose control board, relays, and pressure switch.

Warning: Do not attempt electrical repairs or component replacement unless you are a qualified professional. Incorrect repairs can lead to further damage, fire, or electrical shock.

6. SPECIFICATIONS

The following specifications apply to the FASCO A178 Induced Draft Blower:

- **Model Number:** A178
- **Part Number:** A178
- **Manufacturer:** FASCO Industries
- **Item Weight:** Approximately 4 pounds
- **Item Package Quantity:** 1
- **Batteries Included:** No
- **Batteries Required:** No
- **UPC:** 642415173155
- **OEM Compatibility:** ICP (as indicated by product features)

7. WARRANTY AND SUPPORT

For specific warranty information regarding your FASCO A178 Induced Draft Blower, please refer to the documentation provided with your purchase or contact FASCO Industries directly. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

For technical support, troubleshooting assistance beyond this manual, or to locate authorized service providers, please contact FASCO Industries customer service or the vendor from whom the product was purchased. Always provide your model number (A178) and purchase date when seeking support.

FASCO Industries Contact Information: Please visit the official FASCO Industries website for the most current contact details, including phone numbers and support portals.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question