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Goodman 0131F00042SP Furnace Blower Motor Instruction Manual

Model: 0131F00042SP | Brand: Goodman

1. PRODUCT OVERVIEW

The Goodman 0131F00042SP is a replacement blower motor designed for specific Goodman furnace models. This motor is an essential component for the proper functioning of your furnace's air circulation system, ensuring efficient heating and cooling within your home or facility.



Image 1.1: Goodman 0131F00042SP Furnace Blower Motor. This image displays the motor unit, highlighting its cylindrical body, electrical wiring harness, and mounting points. The motor is typically housed within the furnace's blower assembly.

Key Features:

- 1/2 HP (Horsepower)
- 115 Volts
- 60Hz Frequency
- 7.0 AMPS
- 130 RPM (Revolutions Per Minute)
- Replaces part numbers B13400-24S and 0131F00022SP.

2. SAFETY INFORMATION

Before attempting any installation, maintenance, or repair on your furnace, it is crucial to observe the following safety precautions:

- **Disconnect Power:** Always turn off the electrical power to the furnace at the main circuit breaker or fuse box before beginning any work. Failure to do so can result in electrical shock or serious injury.
- **Qualified Personnel:** Installation and servicing should only be performed by qualified and experienced HVAC technicians. Improper installation can lead to property damage, injury, or death.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses and gloves, to protect against potential hazards.
- **Read Instructions:** Carefully read and understand all instructions in this manual and your furnace's manual before

proceeding.

- **Verify Compatibility:** Ensure this motor is the correct replacement part for your specific furnace model.
- **Electrical Wiring:** All wiring must comply with local and national electrical codes.
- **Hot Surfaces:** Furnace components can be hot. Allow sufficient time for the furnace to cool down before handling any parts.

3. PRODUCT SPECIFICATIONS

Specification	Value
Brand	Goodman
Model Number	0131F00042SP
Horsepower (HP)	0.5 HP (1/2 HP)
Voltage	115 Volts
Frequency	60 Hz
Amperage	7.0 Amps
Speed	130 RPM
Material	Metal
Item Weight	17.51 Pounds
Package Dimensions	13 x 12 x 12 inches
Manufacturer	Broad-Ocean

4. COMPATIBILITY

This Goodman 0131F00042SP blower motor is a direct replacement for the following Goodman furnace model numbers:

- GMH95-070-4
- GMH95-090-4
- GKS9-090-4
- GCH9-090-4
- GCH95-070-4
- GCH95-090-4
- GMH8-090-4
- GMH8-115-5

It also replaces older part numbers B13400-24S and 0131F00022SP. Always verify your furnace's model number and the required motor specifications before purchasing and installing a replacement part.

5. INSTALLATION / SETUP

Warning: Installation should only be performed by a qualified HVAC technician. Improper installation can lead to electrical shock, fire, property damage, or serious injury.

1. **Power Disconnection:** Locate the main electrical panel and turn off the circuit breaker supplying power to the furnace. Verify power is off using a voltage tester.

2. **Access Furnace Blower Compartment:** Open the access panel(s) to the furnace blower compartment. This may require removing screws or latches.
3. **Disconnect Wiring:** Carefully label and disconnect all electrical wires connected to the existing blower motor. Take photos for reference if necessary.
4. **Remove Old Motor:** Unbolt or unmount the old blower motor from its housing. Note the orientation and mounting method.
5. **Remove Blower Wheel (if applicable):** If the blower wheel needs to be transferred to the new motor, carefully loosen the set screw(s) holding it to the motor shaft and slide it off. Inspect the blower wheel for damage and clean it thoroughly.
6. **Install Blower Wheel (if applicable):** Slide the cleaned blower wheel onto the shaft of the new motor. Ensure it is properly aligned and secure the set screw(s) firmly.
7. **Mount New Motor:** Install the new Goodman 0131F00042SP motor into the furnace blower housing, ensuring it is securely bolted or mounted in the same orientation as the old motor.
8. **Reconnect Wiring:** Reconnect all electrical wires to the new motor according to your labels or reference photos. Ensure all connections are tight and secure.
9. **Close Access Panels:** Securely close all furnace access panels.
10. **Restore Power:** Return to the main electrical panel and turn on the circuit breaker to restore power to the furnace.
11. **Test Operation:** Initiate a heating or cooling cycle to test the new motor's operation. Listen for unusual noises and observe airflow.

Consult your furnace's specific service manual for detailed diagrams and procedures.

6. OPERATION

Once installed, the Goodman 0131F00042SP blower motor operates automatically as part of your furnace system. It is controlled by the furnace's thermostat and control board to circulate air through your home's ductwork for heating or cooling.

- **Heating Cycle:** When the thermostat calls for heat, the furnace ignites, and once the heat exchanger is warm, the blower motor activates to distribute heated air.
- **Cooling Cycle:** When the thermostat calls for cooling (if connected to an air conditioning unit), the blower motor activates to circulate cool air from the evaporator coil.
- **Continuous Fan Operation:** Many thermostats offer a "Fan ON" setting, which allows the blower motor to run continuously, circulating air even when heating or cooling is not active. This can help improve air quality and maintain more even temperatures.

No direct user interaction is required for the motor's operation beyond setting your thermostat.

7. MAINTENANCE

Regular maintenance of your furnace system, including the blower motor, is crucial for longevity and efficient operation. While the motor itself is generally sealed and requires no lubrication, other components do.

- **Air Filter Replacement:** Regularly check and replace your furnace's air filter (typically monthly or quarterly, depending on usage and filter type). A clogged filter restricts airflow, forcing the blower motor to work harder and potentially leading to premature failure.
- **Blower Wheel Cleaning:** Periodically inspect the blower wheel for dirt and debris buildup. A dirty blower wheel can become unbalanced, causing vibrations, noise, and reduced airflow. Cleaning should be done by a qualified technician.
- **Annual Professional Inspection:** Schedule annual maintenance with a qualified HVAC technician. They can inspect the motor, check electrical connections, and ensure all furnace components are operating correctly.
- **Listen for Unusual Noises:** Pay attention to any new or unusual noises coming from the furnace, such as grinding, squealing, or excessive vibration. These can indicate a problem with the blower motor or its bearings.

8. TROUBLESHOOTING

If your furnace blower motor is not functioning as expected, consider the following common issues and potential solutions. Always ensure power is disconnected before inspecting any internal components.

Symptom	Possible Cause	Action
Motor does not start	No power, faulty thermostat, control board issue, seized motor, faulty capacitor.	Check circuit breaker. Ensure furnace access panels are closed. Verify thermostat settings. Consult a qualified technician for further diagnosis.
Motor runs but no/low airflow	Clogged air filter, dirty blower wheel, ductwork obstruction.	Replace air filter. Inspect blower wheel for debris (power off). Check for blocked vents.
Unusual noises (squealing, grinding)	Worn motor bearings, unbalanced blower wheel, foreign object in blower.	Disconnect power. Inspect blower area for obstructions. If noise persists, motor replacement or professional service is likely needed.
Motor overheats and shuts off	Restricted airflow (clogged filter/ducts), motor overload, faulty capacitor.	Check and replace air filter. Ensure all vents are open. Allow motor to cool. If problem recurs, contact a technician.

For complex issues or if you are unsure, always contact a certified HVAC professional.

9. WARRANTY AND SUPPORT

For warranty information regarding your Goodman 0131F00042SP Furnace Blower Motor, please refer to the documentation provided with your original purchase or contact Goodman customer support directly. Warranty terms typically cover manufacturing defects for a specified period.

Customer Support:

For technical assistance, troubleshooting guidance, or to locate authorized service providers, please visit the official Goodman website or contact their customer service department. Have your model number (0131F00042SP) and furnace model number ready when contacting support.

- **Goodman Official Website:** www.goodmanmfg.com
- **Contact Information:** Refer to the "Contact Us" section on the official website for phone numbers and support options.