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› [Goodman](#) /

› [Goodman GMS8 Gas-Fired Furnace Instruction Manual - Model GMS80804BX](#)

Goodman GMS80804BX

Goodman GMS8 Gas-Fired Furnace Instruction Manual

Model: GMS80804BX

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Goodman GMS8 Series Gas-Fired Furnace, Model GMS80804BX. This unit is an 80,000 BTU, 80% AFUE, single-stage, multi-speed furnace designed for upflow or horizontal applications. Please read this manual thoroughly before attempting any procedures to ensure proper function and to prevent potential hazards.



Figure 1: Goodman GMS8 Gas Furnace Unit. This image displays the exterior of the Goodman GMS8 gas furnace, highlighting its compact design suitable for various installation configurations.

2. SAFETY INFORMATION

Your safety and the safety of others are paramount. This section contains important safety instructions that must be followed to reduce the risk of fire, explosion, electric shock, or injury. Only qualified personnel should install, service, or repair this appliance.

- **DANGER:** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
- **IMPORTANT:** Indicates information that is essential for proper installation or operation.

2.1 General Safety Precautions

- Always turn off electrical power and gas supply to the unit before performing any service or maintenance.
- Ensure proper ventilation and combustion air supply as per local codes.
- Do not store flammable materials, gasoline, or other combustible vapors and liquids near the furnace.
- Never operate the furnace without the blower access door securely in place.
- Install carbon monoxide detectors in your home.

3. SETUP AND INSTALLATION

Installation of this furnace must be performed by a qualified installer or service agency. Improper installation can create a hazardous condition. All installations must comply with local building codes, national electrical codes, and gas codes.

3.1 Pre-Installation Checks

- Verify that the furnace model matches the installation requirements (e.g., natural gas, BTU output).
- Inspect the unit for any shipping damage. Report any damage immediately.
- Ensure adequate clearances for service and combustion air are maintained around the unit.

3.2 Installation Steps (Overview)

1. **Positioning:** Place the furnace on a level surface, ensuring proper clearances for air circulation and service access. This unit supports upflow and horizontal configurations.
2. **Ductwork Connection:** Connect supply and return air ducts to the furnace. Ensure connections are sealed to prevent air leakage.
3. **Vent System:** Install the flue pipe according to local codes and manufacturer instructions for proper exhaust of combustion gases.
4. **Gas Piping:** Connect the gas supply line to the furnace gas valve. Perform a leak test after connection.
5. **Electrical Wiring:** Connect the furnace to the appropriate power supply and thermostat wiring. Ensure proper grounding.
6. **Condensate Drain (if applicable):** For high-efficiency models, connect a condensate drain line. (Note: GMS8 is 80% AFUE, typically not condensing, but check specific model requirements).
7. **Start-Up:** Follow the detailed start-up procedure in the installer's guide, including gas pressure adjustments and combustion analysis.

4. OPERATING INSTRUCTIONS

Once properly installed and commissioned by a qualified technician, operating your Goodman GMS8 furnace is straightforward, primarily controlled by your thermostat.

4.1 Starting the Furnace

1. Ensure the electrical power switch to the furnace is in the **ON** position.
2. Ensure the gas supply valve to the furnace is in the **OPEN** position.
3. Set your thermostat to the desired temperature and select the **HEAT** mode.
4. The furnace will initiate its start-up sequence, which typically includes a pre-purge cycle, ignition, and then the main burner firing. The blower will activate after a short delay to allow the heat exchanger to warm up.

4.2 Shutting Down the Furnace

- For temporary shutdown, set your thermostat to the **OFF** position or lower the temperature setting below the room temperature.
- For extended shutdown (e.g., summer months or vacation), turn off the electrical power switch to the furnace and close the manual gas shut-off valve.

5. MAINTENANCE

Regular maintenance is crucial for the efficient and safe operation of your furnace. Some tasks can be performed by the homeowner, while others require a qualified service technician.

5.1 Homeowner Maintenance

- **Air Filter Replacement:** Check the air filter monthly and replace it every 1-3 months, or more frequently if you have pets or allergies. A dirty filter restricts airflow and reduces efficiency. Refer to your furnace's specifications for the correct filter size.
- **Clear Area Around Furnace:** Ensure the area around the furnace is free from obstructions, especially combustible materials, to allow for proper airflow and safe operation.

5.2 Professional Maintenance

It is recommended to have your furnace inspected and serviced annually by a qualified HVAC technician. This service typically includes:

- Cleaning and inspection of the heat exchanger.
- Checking and adjusting gas pressure.
- Lubricating moving parts (if applicable).
- Testing safety controls and electrical connections.
- Inspecting the flue system for blockages or leaks.
- Checking blower motor and fan operation.

6. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For complex problems or if you are unsure, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Furnace not heating	Thermostat set incorrectly; Power off; Gas supply off; Dirty air filter; Pilot light out (if applicable); Safety switch tripped.	Check thermostat settings; Ensure power switch is ON; Open gas valve; Replace air filter; Consult technician for pilot light or safety switch issues.
Blower not running	Power off; Blower motor issue; Thermostat fan setting.	Check power; Set thermostat fan to AUTO or ON; Contact technician for motor issues.
Noisy operation	Dirty blower wheel; Loose parts; Motor bearing wear.	Contact technician for inspection and repair.
Furnace cycles on and off frequently	Dirty air filter; Oversized furnace; Thermostat location.	Replace air filter; Consult technician for sizing or thermostat relocation.

The GMS8 furnace is equipped with a self-diagnosing control board. If an issue occurs, the control board may display a fault code. Refer to the installer's guide or contact a qualified technician to interpret these codes.

7. SPECIFICATIONS

Key specifications for the Goodman GMS8 Gas-Fired Furnace, Model GMS80804BX:

- **Model Number:** GMS80804BX
- **Brand:** Goodman
- **Heating Capacity:** 80,000 BTU/hr
- **Annual Fuel Utilization Efficiency (AFUE):** 80%
- **Stages:** Single-Stage
- **Blower Type:** Multi-Speed
- **Fuel Type:** Natural Gas (NG) - Convertible to LP with appropriate kit.
- **Configuration:** Upflow/Horizontal
- **Manufacturer:** Goodman
- **Date First Available:** February 8, 2012

8. WARRANTY AND SUPPORT

Goodman provides a generous warranty for its products. Specific warranty terms and conditions, including registration requirements, are detailed in the warranty certificate included with your furnace. Please retain your proof of purchase for warranty claims.

For technical support, warranty service, or to locate a qualified service technician, please contact your installing dealer or visit the official Goodman website. Do not attempt to repair the unit yourself, as this may void the warranty and create safety hazards.