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## Goodman GMS80804BX

# Goodman GMS80804BX Natural Gas Furnace User Manual

Model: GMS80804BX

## 1. PRODUCT OVERVIEW

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This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Goodman GMS80804BX 80% AFUE Single Stage Upflow/Horizontal Multi-speed Natural Gas Furnace. This unit is designed to provide reliable heating for your home.

### Key Features:

- Goodman 80,000 BTU 80% Efficiency Furnace.
- Single-stage heating with multi-speed fan for consistent comfort.
- Designed for upflow or horizontal installation.
- Low NOx (Nitrogen Oxide) emissions for environmental compliance.



Image 1.1: Front view of the Goodman GMS80804BX Natural Gas Furnace. This image displays the compact design suitable for various installation configurations.

## 2. SAFETY INFORMATION

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**WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Read and understand this manual thoroughly before installing, operating, or servicing this furnace.**

- **Professional Installation Required:** This furnace must be installed by a qualified, licensed HVAC technician. Attempting self-installation can void warranties and lead to dangerous conditions.
- **Carbon Monoxide Hazard:** This appliance can produce carbon monoxide, which is an odorless and colorless gas that can cause serious injury or death. Ensure proper ventilation and install carbon monoxide detectors in your home.
- **Electrical Shock Hazard:** Disconnect all electrical power to the furnace before performing any service or maintenance.
- **Gas Leak Hazard:** Natural gas is flammable and explosive. If you smell gas, immediately follow emergency procedures: evacuate the building, do not operate electrical switches, and contact your gas supplier.

- **Hot Surfaces:** The furnace and its components can become very hot during operation. Avoid contact with hot surfaces to prevent burns.
- **Combustible Materials:** Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

### 3. SETUP AND INSTALLATION

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Installation of the Goodman GMS80804BX furnace requires specialized knowledge and tools. It is mandatory that this unit be installed by a qualified, licensed HVAC professional to ensure safety, proper operation, and warranty validity.

#### Key Installation Considerations:

- **Location:** The furnace can be installed in an upflow or horizontal configuration. The installer will determine the optimal location based on your home's layout and local codes.
- **Gas Supply:** Proper sizing and connection of the natural gas supply line are critical.
- **Ventilation:** Adequate combustion air and venting for exhaust gases must be established according to local and national codes.
- **Electrical Connections:** The furnace requires a dedicated electrical circuit. All wiring must comply with local electrical codes.
- **Ductwork:** Connection to existing or new ductwork must be sealed and sized correctly for efficient air distribution.
- **Accessories:** Essential accessories such as linesets, thermostats, and LP (liquid propane) conversion kits (if converting from natural gas) are sold separately and must be installed by the technician.
- **Environmental Mitigation Fee:** For installations in certain climate districts in California, an environmental mitigation fee may be required. Your installer can provide details.

### 4. OPERATING INSTRUCTIONS

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Once properly installed and commissioned by a qualified technician, operating your Goodman GMS80804BX furnace is primarily controlled by your thermostat.

#### Basic Operation:

1. **Power On:** Ensure the electrical disconnect switch near the furnace is in the "ON" position.
2. **Thermostat Setting:** Set your thermostat to "HEAT" mode and adjust the desired temperature above the current room temperature.
3. **Furnace Cycle:** The thermostat will signal the furnace to begin its heating cycle. This typically involves:
  - The inducer motor starting to draw combustion air.
  - The igniter glowing to ignite the gas.
  - The main burners igniting.
  - After a short delay, the main blower fan starting to circulate warm air through your home's ductwork.
4. **Cycle Completion:** Once the thermostat's set temperature is reached, the burners will shut off, and the blower fan will continue to run for a short period to extract residual heat before shutting off.

For detailed thermostat programming and advanced features, refer to your thermostat's specific user manual.

### 5. MAINTENANCE

Regular maintenance is crucial for the longevity, efficiency, and safe operation of your Goodman furnace. Always disconnect electrical power to the furnace before performing any maintenance.

### User-Performed Maintenance:

- **Air Filter Replacement:** Check your air filter monthly, especially during peak heating seasons. Replace or clean it (depending on filter type) every 1-3 months, or more frequently if you have pets or allergies. A dirty filter restricts airflow, reduces efficiency, and can damage the furnace.
- **Clear Area Around Furnace:** Ensure the area around the furnace is clear of obstructions, combustible materials, and debris to allow for proper airflow and safe operation.

### Professional Maintenance:

It is highly recommended to schedule annual professional maintenance with a qualified HVAC technician. This typically includes:

- Cleaning and inspection of burners, heat exchanger, and ignition system.
- Checking gas pressure and connections.
- Lubricating moving parts (if applicable).
- Testing safety controls and electrical components.
- Inspecting ductwork for leaks.
- Checking flue pipe for obstructions and proper venting.

## 6. TROUBLESHOOTING

Before calling for service, review the following common issues and simple solutions. Always ensure electrical power is disconnected before inspecting any internal components.

Problem	Possible Cause	Solution
Furnace not heating	Thermostat set incorrectly Power switch off Dirty air filter Pilot light out (if applicable) Gas supply off	Check thermostat settings Ensure power switch is ON Replace/clean air filter Consult technician for ignition issues Verify gas valve is open
Blower fan runs constantly	Thermostat fan setting on "ON" Limit switch issue	Set thermostat fan to "AUTO" Contact technician
Noisy operation	Dirty blower wheel Loose panel Ductwork issues	Contact technician for inspection Secure panels Contact technician
Furnace cycles on and off rapidly (short cycling)	Dirty air filter Oversized furnace Thermostat location	Replace/clean air filter Contact technician for diagnosis

If these steps do not resolve the issue, or if you suspect a gas leak or electrical problem, immediately contact a qualified HVAC technician for professional diagnosis and repair. Do not attempt complex repairs yourself.

## 7. SPECIFICATIONS

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The following specifications apply to the Goodman GMS80804BX Natural Gas Furnace:

Specification	Value
Model Number	GMS80804BX
Brand	Goodman
AFUE (Annual Fuel Utilization Efficiency)	80%
BTU Input	80,000 BTU
Fuel Type	Natural Gas (convertible to LP with kit)
Configuration	Upflow/Horizontal
Product Dimensions (L x W x H)	762 x 469.9 x 901.7 inches
Item Weight	130 pounds
UPC	663051543799

## 8. WARRANTY INFORMATION

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The Goodman GMS80804BX furnace comes with a **10-year parts limited warranty**.

**Important Warranty Conditions:**

- The warranty is valid only if the furnace is installed by a qualified installer.
- The product must be registered online within 60 days of installation to activate the full 10-year parts limited warranty. Failure to register may result in a shorter warranty period.
- Keep your proof of purchase and installation records, as these will be required for any warranty claims.

For complete warranty terms and conditions, please refer to the official warranty document provided with your furnace or contact Goodman customer support.

## 9. SUPPORT AND CONTACT

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For technical assistance, service, or warranty inquiries, please contact your installing HVAC contractor. They are best equipped to provide support for your specific installation.

You may also visit the official Goodman website for additional resources, product information, and to locate authorized service providers in your area.

**Goodman Manufacturing Company, L.P.**

*(Specific contact details not provided in product data. Refer to Goodman's official website or product packaging for current contact information.)*

