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› [Suburban](#) /

› Suburban SF-30FQ 12V RV Furnace (Model 2558A) Instruction Manual

Suburban SF-30FQ

Suburban SF-30FQ 12V RV Furnace (Model 2558A) Instruction Manual

30,000 BTU/h Ducted RV Furnace

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Suburban SF-30FQ 12V RV Furnace, Model 2558A. Please read this manual thoroughly before attempting to install or operate the furnace. Retain this manual for future reference.

The Suburban SF-Q Series furnaces, including the SF-30FQ, are designed to deliver maximum heating performance in a ducted unit. With a low-profile design, these units are suitable for installation in various RV configurations. The SF-FQ models are specifically designed for interior serviceability, featuring a front gas connection and a compact exterior vent terminal, allowing for flexible placement within your RV.

2. SAFETY INFORMATION

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

- Always ensure adequate ventilation when operating gas appliances.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Never obstruct the air intake or exhaust vents of the furnace.
- If you smell gas, immediately shut off the gas supply, open windows and doors, and do not operate any electrical switches or appliances. Contact a qualified service technician.
- Installation and service must be performed by a qualified installer, service agency, or gas supplier.
- Ensure all electrical connections comply with local codes and manufacturer specifications.

3. PRODUCT OVERVIEW

Key Features

- Maximum heating performance in a low-profile design.
- BTU/h Input: 30,000.
- Compact Dimensions: 7.5" height x 17" width x 20" depth.
- Voltage: 12 VDC.
- Amp Draw: 7.0.
- Quiet, multi-ported stainless steel burners.
- Sealed forced-draft combustion.
- Automatic direct spark ignition.

Package Contents

- Suburban 2558A 12V RV Furnace SF-30FQ - 30,000 BTU/h.
- Installation and Operation Manual (this document).

Product Image



Image: The Suburban SF-30FQ 12V RV Furnace, Model 2558A. This image displays the compact, rectangular furnace unit with a brushed metal finish. The top surface features a large grated vent. The front panel shows two circular openings for duct connections and a smaller grated section for air intake/exhaust. The side panel also has circular cutouts for additional ducting options, indicating its versatile installation capabilities.

4. SPECIFICATIONS

Specification	Value
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Specification	Value
Manufacturer	Suburban
Model Number	2558A (SF-30FQ)
BTU/h Input	30,000
Voltage	12 VDC
Amp Draw	7.0 Amps
Dimensions (H x W x D)	7.5" x 17" x 20"
Item Weight	35 pounds
Heating Method	Convection
Finish Type	Brushed

5. INSTALLATION

Installation of the Suburban SF-30FQ furnace requires knowledge of gas, electrical, and RV construction systems. It is highly recommended that installation be performed by a qualified RV technician or service center to ensure safety and proper operation.

- **Location:** Choose a location that allows for proper ducting, gas line connection, electrical wiring, and access for maintenance. The SF-FQ models are designed for interior serviceability with a front gas connection.
- **Clearances:** Maintain specified clearances from combustible materials as indicated in the detailed installation instructions provided with the physical product.
- **Ducting:** The furnace offers nine duct connection choices (top, front, side, and bottom) for flexible routing of heated air. Ensure all ductwork is properly sealed and insulated.
- **Vent Terminal:** Install the small exterior vent terminal according to manufacturer guidelines, ensuring it is clear of obstructions and at least 9 inches from any adjacent walls or openings.
- **Gas Connection:** Connect the gas supply line to the furnace using approved fittings and ensure all connections are leak-tested.
- **Electrical Wiring:** Connect the 12 VDC power supply and thermostat wiring as per the wiring diagram. Ensure correct polarity and secure connections.

Refer to the comprehensive installation guide included with your furnace for detailed diagrams and step-by-step instructions.

6. INITIAL SETUP

Before operating the furnace for the first time, perform the following checks:

1. **Gas Supply:** Ensure the RV's main gas supply valve is open and there is propane in the tank.
2. **Electrical Power:** Confirm that the 12 VDC power supply to the furnace is active.
3. **Thermostat:** Set the RV thermostat to the desired temperature, ensuring it is above the current ambient temperature.

4. **Ventilation:** Verify that all furnace vents (intake and exhaust) are clear of obstructions.
5. **Leak Test:** After gas line connection, perform a leak test on all gas connections using a non-corrosive leak detection solution.

7. OPERATING INSTRUCTIONS

To operate your Suburban SF-30FQ furnace:

1. **Turn On:** Ensure the RV's main gas supply is open and 12V power is supplied to the furnace.
2. **Set Thermostat:** Adjust your RV's thermostat to the desired temperature. Ensure the thermostat is set to "HEAT" mode.
3. **Ignition Cycle:** The furnace fan will start, and after a short pre-purge cycle, the automatic direct spark ignition system will attempt to light the burner. This may take a few attempts.
4. **Heating:** Once ignited, the burner will operate until the thermostat's set temperature is reached. The fan will continue to run for a short period after the burner shuts off to dissipate residual heat.
5. **Turn Off:** To turn off the furnace, set the thermostat to its lowest setting or switch it to the "OFF" position. For extended storage, close the main gas supply valve to the RV.

If the furnace fails to ignite after several attempts, refer to the Troubleshooting section.

8. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your furnace. Always disconnect power and shut off the gas supply before performing any maintenance.

- **Annual Inspection:** Have a qualified technician inspect the furnace annually, especially before the heating season. This includes checking the heat exchanger, burner, ignition system, and gas connections.
- **Clean Air Intake/Exhaust:** Periodically check and clean the exterior air intake and exhaust vents to ensure they are free from debris, insects, or obstructions.
- **Ductwork Inspection:** Inspect all duct connections for leaks or damage. Ensure they are securely fastened.
- **Blower Wheel:** If accessible, inspect the blower wheel for dirt and debris. Clean gently if necessary, ensuring not to bend the blades.
- **Gas Pressure:** Verify proper gas pressure at the furnace inlet. This should be done by a qualified technician.

9. TROUBLESHOOTING

Before calling for service, review the following common issues and solutions:

Problem	Possible Cause	Solution
Furnace does not start (no fan, no heat).	No 12V power; Thermostat set too low or off; Blown fuse/tripped breaker.	Check RV battery and power connections; Set thermostat to heat and desired temperature; Check and replace fuse or reset breaker.
Fan runs, but no heat.	No gas supply; Ignition failure; Blocked exhaust/intake.	Ensure gas supply is open and tank has propane; Check for obstructions in vents; If ignition fails repeatedly, contact a qualified technician.

Problem	Possible Cause	Solution
Furnace cycles on and off rapidly.	Restricted airflow; Overheating (limit switch tripped).	Check for blocked return air or supply registers; Ensure ductwork is clear. Contact technician if problem persists.
Unusual noises during operation.	Loose components; Debris in blower wheel; Motor issues.	Turn off furnace and inspect for loose parts or debris. If noise continues, contact a qualified technician.

For issues not listed or if solutions do not resolve the problem, contact a qualified RV service technician.

10. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or contact Suburban customer support directly. Keep your purchase receipt as proof of purchase.

For technical assistance or to locate an authorized service center, please visit the official Suburban website or contact their customer service department.

