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› LF Bros N2 and N2pro Diesel Space Heater Instruction Manual

## LF Bros N2, N2pro

# LF Bros N2 and N2pro Diesel Space Heater Instruction Manual

Model: N2, N2pro

## 1. INTRODUCTION

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Thank you for choosing the LF Bros N2/N2pro Diesel Space Heater. This manual provides essential information for the safe and efficient operation, setup, and maintenance of your heater. Please read this manual thoroughly before using the product and retain it for future reference.

The LF Bros N2/N2pro is a versatile diesel air heater designed for various environments, including RVs, cars, campers, trailers, garages, basements, and shops. It supports 12V, 24V, and 110V power inputs, offering flexibility for both mobile and stationary use.



**Figure 1.1:** LF Bros N2/N2pro Diesel Space Heater. This image displays the overall unit with its dimensions: 14.96 inches in length, 9.64 inches in width, and 11.61 inches in height, illustrating its compact form factor.

## 2. SAFETY INFORMATION

**WARNING:** Failure to follow these safety instructions may result in fire, electric shock, serious injury, or death.

- Always operate the heater in a well-ventilated area to prevent carbon monoxide buildup. Ensure proper exhaust ventilation.
- Do not block the air inlet or outlet of the heater. Maintain clear space around the unit for proper airflow.
- Use only diesel fuel. Never use gasoline, kerosene, or other volatile fuels, as this can cause fire or explosion.
- Ensure the fuel tank cap is securely fastened to prevent leaks, especially during transport. The LF Bros heater features an exclusive internal thread design for enhanced leak prevention.
- Keep flammable materials (e.g., clothing, curtains, paper) at least 3 feet (1 meter) away from the heater.
- Do not leave the heater unattended while in operation.
- Keep children and pets away from the heater. The surface can become hot during operation.
- Before performing any maintenance or cleaning, always turn off the heater and disconnect it from the power

source. Allow it to cool completely.

- Do not operate the heater if it is damaged or malfunctioning. Contact customer support for assistance.
- Ensure the heater is placed on a stable, level surface to prevent tipping.
- When using the 110V adapter, ensure the electrical outlet is properly grounded and rated for the heater's power requirements.

## ANTI LEAKAGE TANK COVER



- Exclusive designed cover with internal threaded, no more oil spill

**Figure 2.1:** Anti-leakage fuel tank cover. This image highlights the exclusive internally threaded fuel tank cover, designed to prevent oil spills during vehicle movement or on rough terrain, enhancing safety and cleanliness.

### 3. SETUP AND INSTALLATION

The LF Bros N2/N2pro diesel heater comes with complete accessories and installation kits for easy setup. Refer to the included instruction booklet for detailed diagrams and steps. You can also scan the QR code in the manual for an installation tutorial video.

#### 3.1 Unpacking

- Carefully remove all components from the packaging.

- Verify that all parts listed in the packing list are present and undamaged.
- Retain packaging materials for storage or future transport.

### **3.2 Placement**

- Place the heater on a firm, level, non-combustible surface.
- Ensure adequate clearance from walls, furniture, and other objects (minimum 3 feet / 1 meter).
- Position the heater so that the hot air outlet is directed towards the area to be heated, and the exhaust pipe is safely vented outdoors.

### **3.3 Fueling**

- Open the fuel tank cap.
- Fill the tank with clean diesel fuel. Do not overfill.
- Securely close the fuel tank cap, ensuring the internal threads are properly engaged.

### **3.4 Power Connection**

- The heater supports 12V, 24V, and 110V power.
- For 12V/24V operation (e.g., in vehicles), connect the appropriate power cables to your vehicle's battery or power source, observing correct polarity.
- For 110V operation (e.g., home, garage), use the included 110V adapter. Plug the heater into the adapter, then plug the adapter into a standard 110V wall socket.

# THE KIT INCLUDES A 110V ADAPTER FOR INDOOR HEATING



American standard plug



**Figure 3.1:** 110V adapter for indoor heating. This image shows the included 110V adapter with an American standard plug, allowing the diesel heater to be powered from a conventional wall outlet for indoor use in locations like garages or basements.

## 4. OPERATING INSTRUCTIONS

The LF Bros N2/N2pro heater features an LCD control panel and a pre-paired remote control for convenient operation.

### 4.1 Starting the Heater

- Ensure the heater is properly set up and connected to a power source.
- Press the power button on the LCD control panel or the remote control. The display will illuminate.
- The heater will initiate its startup sequence, which includes pre-heating the glow plug and fuel pump activation. This process may take a few minutes.
- Once started, hot air will begin to flow from the air outlet.

### 4.2 Adjusting Settings

- **Power/Temperature Regulation:** Use the controls on the LCD panel or remote to adjust the desired heating

power or temperature. The LCD screen will display the current settings.

- **24-Hour Timer Function:** The heater includes a 24-hour timer. Refer to the detailed instruction booklet for programming specific heating schedules. This feature allows for energy conservation and pre-heating.
- **Plateau Mode:** N2 and N2pro models support a plateau mode, optimized for operation at high altitudes (tested up to 17,000 feet). Consult the manual for activation and usage of this mode if operating in such conditions.

# SCHEDULE YOUR HEATING TIME WITH 24 HOUR TIMER FUNCTION

Provide you with a warm and sound sleep

 24-hour timer function

 energy conservation



**LCD SWITCH**

- Colored LCD screen
- 24-hour timing function
- Temperature/power regulation

**Figure 4.1:** LCD control panel with timer function. This image shows the colored LCD screen, which provides real-time working status, allows for temperature/power regulation, and features a 24-hour timing function for scheduling heating operations.



unobstructed airflow.

- **Fuel Filter:** Inspect the fuel filter regularly and replace it if it appears clogged or dirty. Refer to the detailed manual for location and replacement instructions.
- **Exhaust System:** Ensure the exhaust pipe is clear of obstructions and securely connected. Check for any signs of damage or leaks.
- **Ignition Needle:** The heater uses an imported Japanese ignition needle for low failure rates. If ignition issues occur, consult the troubleshooting section or contact support.

## 6. TROUBLESHOOTING

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This section addresses common issues you might encounter with your LF Bros diesel heater. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
Heater does not start.	No power, low fuel, clogged fuel line, ignition failure.	Check power connection and voltage. Ensure sufficient fuel. Check fuel filter. If ignition fails repeatedly, contact support.
Heater produces smoke.	Improper combustion, clogged exhaust, incorrect fuel.	Ensure proper ventilation. Check exhaust for obstructions. Verify correct diesel fuel is used.
Low heat output.	Blocked air intake/outlet, low power setting, dirty components.	Clear obstructions from air vents. Increase power setting. Perform maintenance cleaning.
Unusual noise during operation.	Loose components, fan obstruction, fuel pump issue.	Turn off and inspect for loose parts. Check fan for obstructions. If noise persists, contact support. The unit features a silent oil pump and upgraded silencer for reduced noise.

# DOUBLE LOW NOISE GUARANTEE

Silent oil pump and upgraded silencer reduce noise more effectively



**Figure 6.1:** Silent oil pump and upgraded silencer components. This image illustrates the internal components designed to reduce operational noise, specifically highlighting the silent oil pump and the muffler with internal bending, contributing to a quieter heating experience.

## 7. SPECIFICATIONS

Below are the key specifications for the LF Bros N2/N2pro Diesel Space Heater:

- **Brand:** LF Bros
- **Model:** N2, N2pro
- **ASIN:** B0CHYLKP89
- **Special Features:** Remote Control, 24-hour Timer, Plateau Mode
- **Color:** Black
- **Form Factor:** Compact
- **Indoor/Outdoor Usage:** Indoor (with proper ventilation and exhaust)
- **Heating Method:** Forced Air

- **Mounting Type:** Floor Mount
- **Room Type:** Bedroom, Home Office, Living Room (with appropriate safety measures)
- **Heating Element:** Radiant
- **Fuel Type:** Diesel
- **Power Input:** 12V, 24V, 110V (with included adapter)
- **Weight:** Approximately 9.24 lbs
- **Body Material:** Sandblasted Aluminum
- **Ignition:** Imported Japanese ignition needle
- **Altitude Support:** Tested at altitudes up to 17,000 feet (Plateau Mode)



**Figure 7.1:** LF Bros N2/N2pro Diesel Space Heater. This image displays the overall unit with its dimensions: 14.96 inches in length, 9.64 inches in width, and 11.61 inches in height, illustrating its compact form factor and design.

## 8. WARRANTY AND CUSTOMER SUPPORT

For warranty information, technical support, or service inquiries, please contact the LF Bros Official Store or refer to

the warranty card included with your product. Ensure you have your product model number (N2 or N2pro) and ASIN (B0CHYLKP89) ready when contacting support.

You can often find contact information through the retailer where you purchased the product or by visiting the official LF Bros website.