

maXpeedingrods MXR-1F

maXpeedingrods 5KW 12V Diesel Heater User Manual

Model: MXR-1F

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, installation, and maintenance of your maXpeedingrods 5KW 12V Diesel Heater, Model MXR-1F. This heater is designed to provide rapid and consistent heating for various vehicles, including campers, trucks, RVs, trailers, boats, and other specialized vehicles. It features advanced controls such as Bluetooth app connectivity, a remote control, and an LCD panel, along with automatic altitude compensation for reliable performance in diverse environments.



Figure 1: maXpeedingrods 5KW 12V Diesel Heater and accessories.

2. SAFETY INFORMATION

Read all safety warnings and instructions carefully before installing or operating the heater. Failure to follow these instructions may result in fire, explosion, electric shock, or other serious injury.

- **Ventilation:** Ensure adequate ventilation in the installation area and the heated space to prevent carbon monoxide buildup. Never operate the heater in an enclosed, unventilated space.
- **Fuel Handling:** Handle diesel fuel with extreme care. Store fuel in approved containers away from heat sources and open flames. Do not refuel while the heater is operating or hot.
- **Exhaust System:** The exhaust pipe must be routed safely to the outside of the vehicle, away from flammable materials and areas where exhaust fumes could enter the cabin. Ensure all exhaust connections are sealed to prevent leaks.
- **Electrical Connections:** All electrical connections must be secure and properly insulated to prevent short circuits and fire hazards. Use appropriate fuses as specified.
- **Flammable Materials:** Keep all flammable materials (e.g., clothing, paper, fuel containers) at a safe distance from the heater and its exhaust system.
- **Children and Pets:** Keep children and pets away from the heater during operation and when it is cooling down.

- **Maintenance:** Perform regular maintenance as described in this manual. Do not attempt repairs beyond your technical capability. Contact qualified personnel for service.

3. PACKAGE CONTENTS

Verify that all components listed below are present in your package. If any items are missing or damaged, please contact customer support.



Figure 2: All included accessories for the maXpeedingrods 5KW 12V Diesel Heater.

- Heater Unit
- Fuel Pipe
- Updated Fuel Pump
- LCD Control Panel
- T-Connector
- Air Filter
- Air Outlet Grille

- User Manual (English)
- Exhaust Silencer
- Rubber Clamp for Fuel Pump
- Fuel Filter
- Remote Control (batteries not included)
- Exhaust Wrap
- Fuel Tank
- Wiring Harness
- Oil Extractor
- Installation Kit (clamps, screws, etc.)
- Repair Kit
- Exhaust Pipe
- Hot Air Outlet Pipe
- Air Inlet Pipe
- Gloves

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your diesel heater. It is recommended that installation be performed by a qualified technician if you are unsure about any steps.

4.1 Mounting the Heater Unit

The heater unit can be mounted with a flexible angle of 0-90 degrees, allowing for versatile placement within your vehicle. Ensure the mounting surface is stable and can support the heater's weight. Maintain adequate clearance around the air inlet and outlet for proper airflow.



Figure 3: Flexible installation options for the heater unit.

4.2 Fuel System Connection

1. Install the fuel tank in a secure location, ensuring it is easily accessible for refueling but protected from damage.
2. Connect the fuel pipe from the tank to the fuel filter, then to the fuel pump, and finally to the heater unit. Use the provided T-connector if integrating with an existing fuel line.
3. Secure all fuel line connections with clamps to prevent leaks. The updated fuel pipe and rubber clamp for the fuel pump ensure a secure fit.



Figure 4: Updated fuel pipe for secure connections.

4.3 Exhaust System Installation

1. Connect the exhaust pipe to the heater unit and route it safely to the exterior of the vehicle.
2. Install the exhaust silencer to reduce noise.
3. Use the provided exhaust wrap around the exhaust pipe, especially near any heat-sensitive materials, to prevent heat damage.
4. Ensure the exhaust outlet is clear of obstructions and points away from the vehicle's interior and any windows.



Figure 5: Exhaust wrap for heat protection.

4.4 Air Ducting

1. Connect the air inlet pipe to the heater and ensure it draws clean air.
2. Attach the hot air outlet pipe to the heater and direct it into the space to be heated. Install the air outlet grille for controlled airflow.

4.5 Electrical Connections

Connect the wiring harness to the heater unit and to a 12V power source, ensuring correct polarity. Install the LCD control panel in a convenient location within the vehicle and connect it to the main wiring harness.

4.6 Initial Priming

Before the first use, it is essential to prime the fuel system to ensure diesel reaches the heater. This can often be done via a specific function on the LCD control panel or the smartphone app. Refer to the detailed user manual for your specific model's priming procedure.

5. OPERATING INSTRUCTIONS

Your maXpeedingrods diesel heater offers multiple convenient ways to control its operation.

5.1 Starting and Stopping the Heater

The heater can be started and stopped using the LCD control panel, the smartphone app, or the remote control.



Figure 6: Three methods to start and control the heater.

- **LCD Control Panel:** Use the buttons on the panel to navigate menus, adjust settings, and initiate or terminate heating.
- **Smartphone App (Bluetooth):** Download the MaXspeedingRods app (available for iOS and Android). Pair your device via Bluetooth to control the heater remotely. The app allows for preheating and defrosting your vehicle in advance.
- **Remote Control:** Use the provided remote control for convenient wireless operation. Ensure batteries are installed (not included).



Figure 7: Control the heater conveniently via the MaXspeedingRods smartphone app.

5.2 Adjusting Heat Output

The heater's thermal output can be adjusted from 3400 to 17,000 BTU (equivalent to 1KW to 5KW) to suit various heating requirements and space sizes. Use the control panel or app to set your desired temperature or power level.

5.3 Automatic Altitude Compensation

The heater features automatic altitude compensation, allowing it to operate efficiently at altitudes up to 16,000 feet (4877 meters). This function ensures consistent heating performance without manual adjustments, adapting to atmospheric pressure changes.

Regolazione Automatica Dell'altitudine

Garantisce la temperatura perfetta
a qualsiasi altitudine



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Figure 8: Automatic altitude compensation for stable heating.

5.4 24H Timer Function

Utilize the 24-hour timer function for scheduled operation. This allows you to set the heater to preheat your vehicle before you arrive or to shut down automatically after a set period.

24H Timer

Accensione anticipata / Spegnimento ritardato



Figure 9: 24-hour timer for convenient scheduling.

5.5 Quiet Operation

The heater is designed for quiet operation, featuring an updated silent oil pump that effectively reduces noise during use, ensuring a peaceful environment.

Funzionamento Silenzioso

Con pompa dell'olio aggiornata, riducendo efficacemente il rumore del riscaldatore



Figure 10: Silent operation with an updated oil pump.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your maXspeedingrods diesel heater.

- **Cleaning:** Periodically clean the exterior of the heater unit. Ensure air inlets and outlets are free from dust and debris.
- **Fuel Filter:** Inspect the fuel filter regularly and replace it if it appears clogged or dirty. A clean fuel filter is essential for efficient fuel delivery.
- **Exhaust System:** Check the exhaust pipe and silencer for any signs of damage, corrosion, or blockages. Ensure all connections remain secure.
- **Electrical Connections:** Verify that all electrical connections are tight and free from corrosion.
- **General Inspection:** Before each heating season, perform a thorough inspection of all components for wear and tear.

7. TROUBLESHOOTING

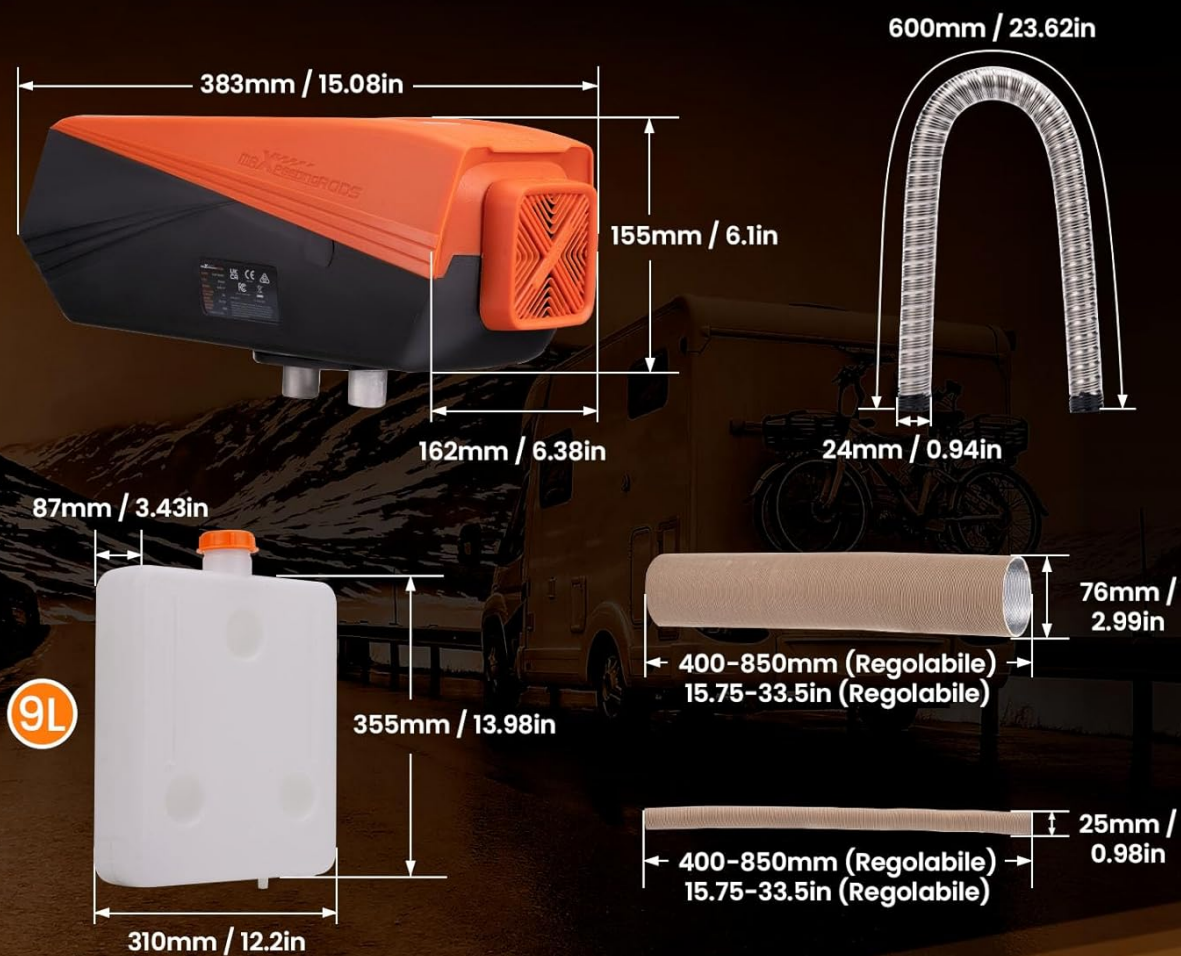
If you encounter issues with your heater, refer to the following common problems and solutions. For persistent issues, contact customer support.

Problem	Possible Cause	Solution
Heater does not start	No fuel, clogged fuel filter, loose electrical connection, low battery voltage.	Check fuel level, replace fuel filter, inspect and secure electrical connections, charge vehicle battery. Ensure initial priming is complete.
Insufficient heating	Incorrect temperature setting, blocked air intake/outlet, heater too small for space.	Adjust temperature setting, clear obstructions from air ducts, ensure heater capacity matches space requirements.
Excessive smoke from exhaust	Poor fuel quality, incorrect fuel-air mixture, clogged exhaust.	Use high-quality diesel fuel, check air filter, inspect exhaust for blockages.
Bluetooth app connection issues	Incorrect pairing procedure, heater powered off, app issues.	Ensure heater is powered on. Follow app pairing instructions carefully (may require multiple attempts). Restart app and heater. If heater is off, it cannot be restarted via Bluetooth.

8. SPECIFICATIONS

Feature	Specification
Manufacturer	maXpeedingrods
Model	MXR-1F
Power Output	5KW (3400-17000 BTU)
Voltage	12V
Fuel Type	Diesel
Fuel Consumption	0.16-0.48 L/H
Electrical Consumption	Approx. 36 Wh
Item Weight	8.24 Kilograms
Product Dimensions (Heater Unit)	44 x 30 x 41 cm (approx. 17.3 x 11.8 x 16.1 inches)
Altitude Compensation	Up to 4877 meters (16,000 feet)
Certifications	E-MARK, CE, UKCA, FCC, RCM

Dimensioni



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Figure 11: Product dimensions.

Con E-MARK e CE Certificazione

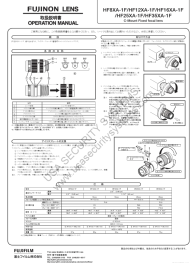
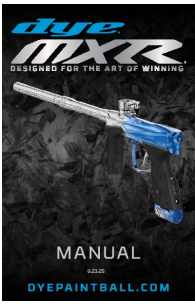
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Figure 12: E-MARK and CE Certifications.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official maXpeedingrods website. If you require technical assistance, troubleshooting not covered in this manual, or have questions about your product, please contact maXpeedingrods customer support through their official channels.

	MAXPEEDINGRODS Parking Air Heater User Manual: Installation, Operation, and Maintenance A comprehensive guide to MAXPEEDINGRODS Parking Air Heaters (Models MXR-1F, MXR-2Y), covering installation procedures, technical specifications, operational modes, safety precautions, and maintenance tips for optimal performance.
	MAXPEEDINGRODS Fuel Heater User Manual and Installation Guide Comprehensive user manual and installation guide for the MAXPEEDINGRODS Fuel Heater (Parking Air Heater), covering models MXR-3M, MXR-2Y, and MXR-1F. Includes detailed information on installation, operation, technical specifications, troubleshooting, and maintenance.
	FUJINON HF-XA-1F C FUJINON HF-XA-1F C
	Toptronic Built-in Ceramic Hob Installation Manual This manual provides detailed instructions for the installation of Toptronic built-in ceramic hobs, including safety precautions, electrical connection guidelines, and mounting procedures.
	maXpeedingrods Trash Can Transporter Hitch Instructions & Installation Guide Detailed installation instructions and product information for the maXpeedingrods Trash Can Transporter Hitch (model THR-2IN5IN-LC). Learn how to easily attach and use this hitch for trucks, cars, ATVs, and more.
	DYE MXR Paintball Marker User Manual and Technical Guide Comprehensive user manual for the DYE MXR paintball marker, covering setup, operation, maintenance, troubleshooting, and technical specifications. Includes safety warnings, key features, and parts lists.

Documents - maXpeedingrods – MXR-1F



[MAXPEEDINGRODS Parking Air Heater User Manual: Installation, Operation, and Maintenance](#)

A comprehensive guide to MAXPEEDINGRODS Parking Air Heaters (Models MXR-1F, MXR-2Y), covering installation procedures, technical specifications, operational modes, safety precautions, and maintenance tips for optimal performance.

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