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## maXpeedingrods MXR-3M

# maXpeedingrods Diesel Auxiliary Heater

Model: MXR-3M

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your maXpeedingrods 5 kW 12 V Portable Diesel Auxiliary Heater. This second-generation model offers enhanced comfort, safety, and heating capacity, featuring automatic altitude compensation, mobile app control, and a remote control for versatile operation. All components have been upgraded with durable materials to ensure optimal product performance.

Please read this manual thoroughly before using the product and retain it for future reference.

## 2. PRODUCT OVERVIEW AND FEATURES

The maXpeedingrods Diesel Auxiliary Heater is designed to provide efficient and reliable heating for various applications, including RVs, cars, and other vehicles. Its compact and portable design, combined with advanced control options, makes it a versatile heating solution.



Image 2.1: The maXpeedingrods portable diesel auxiliary heater, shown with its remote control and a smartphone displaying the control app interface.

### Key Features:

- **Easy to Transport:** The heater is fully enclosed in a metal casing, simplifying installation, use, and transport. It can be stably placed on the ground.
- **Quick Operation:** Control the heater remotely via Bluetooth using the "Maxpeedingrods" app, available for iOS and Android. Pre-heat and defrost your vehicle from a distance.
- **Automatic Altitude Compensation:** Operates effectively up to an absolute altitude of 16,000 feet (4876.8 meters) in Altitude or Plateau mode, maintaining a constant temperature without manual readjustments.
- **Energy Efficiency:** Features low energy consumption while delivering significantly improved diesel heating performance. It consumes an average of 0.16 - 0.48 liters of diesel and 36 Wh.
- **Powerful Heating Capacity:** Rapid heating with adjustable power from 3,400 to 17,000 BTU to meet diverse heating requirements.



Image 2.2: An improved fuel pump designed for super silent operation, effectively reducing noise during use.



Image 2.3: Display of various product certifications including CE, E-mark, UKCA, FCC, and RCM, ensuring worry-free use.

### 3. SETUP AND INSTALLATION

The maXpeedingrods Diesel Auxiliary Heater is designed for portability and ease of use. While it can be placed stably on the ground, proper installation is crucial for safety and optimal performance. It is recommended to consult the detailed installation instructions provided by maXpeedingrods or seek professional assistance for permanent installations.

#### General Setup Guidelines:

- **Placement:** Ensure the heater is placed on a stable, non-combustible surface. Maintain adequate clearance from flammable materials.
- **Ventilation:** Ensure proper ventilation for exhaust gases. The exhaust pipe must be routed safely outside the vehicle or enclosed space.
- **Fuel Connection:** Connect the diesel fuel line securely to the heater's fuel inlet. Ensure no leaks are present.
- **Power Connection:** Connect the heater to a 12V DC power source. Verify correct polarity and

secure connections.

- **Initial Start-up:** After installation, perform an initial start-up to check for proper operation, exhaust routing, and fuel supply.

## 4. OPERATING INSTRUCTIONS

The heater can be controlled via its integrated LCD panel, the included remote control, or the dedicated Bluetooth mobile application.

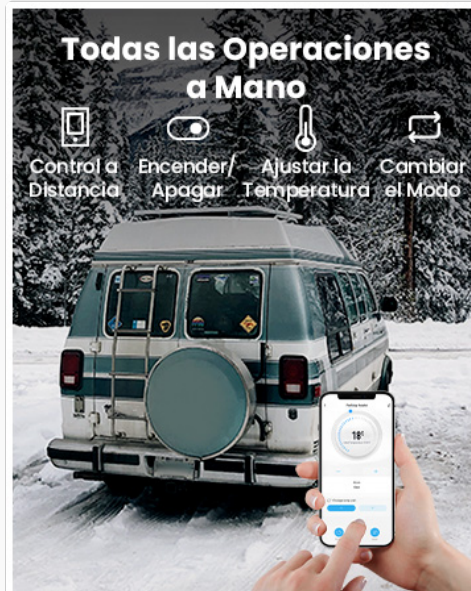


Image 4.1: Illustration of various control options including remote control, power on/off, temperature adjustment, and mode change, all accessible via the mobile app.

### 4.1. Starting and Stopping the Heater

- **Via LCD Panel:** Use the buttons on the LCD panel to power on/off and adjust settings.
- **Via Remote Control:** Press the ON/OFF button on the remote to start or stop the heating process.
- **Via Bluetooth App:** Download the "Maxpeedingrods" app. Pair your device with the heater via Bluetooth. Use the app interface to power on/off, set temperature, and change modes.

### 4.2. Temperature and Mode Adjustment

- Use the '+' and '-' buttons on the remote, LCD panel, or app to adjust the desired temperature.
- Select different operating modes (e.g., heating mode) as available through the control interfaces.

### 4.3. Automatic Altitude Compensation

The heater features an automatic altitude compensation function. When operating at high altitudes (up to 16,000 feet or 4876.8 meters), the heater automatically adjusts its parameters to maintain efficient combustion and consistent heat output without manual intervention. This ensures reliable performance in varying environmental conditions.



Image 4.2: The diesel heater's new version automatically adjusts to different working altitudes, with an altitude reference showing operation at 1000m, 2500m, and 5000m.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your maXpeedingrods Diesel Auxiliary Heater.

### Maintenance Schedule:

- **Before Each Use:** Check fuel level, ensure exhaust is clear, and verify all connections are secure.
- **Monthly (or every 50 hours of operation):** Clean the exterior of the heater. Inspect air intake and exhaust pipes for obstructions or damage.
- **Annually (or every 200 hours of operation):** Inspect fuel lines for cracks or leaks. Check electrical connections for corrosion or looseness. Clean the combustion chamber and glow plug if necessary (refer to detailed service manual for this procedure).

### Cleaning:

- Use a soft, damp cloth to clean the exterior surfaces. Do not use abrasive cleaners or solvents.
- Ensure the air intake and exhaust vents are free from dust, debris, or insects.

## 6. TROUBLESHOOTING

If you encounter issues with your heater, refer to the following common troubleshooting steps. For complex problems, contact customer support.

| Problem               | Possible Cause   | Solution  |
|-----------------------|--|---|
| Heater does not start | No fuel, low battery voltage, clogged fuel line, faulty glow plug. | Check fuel level. Ensure 12V power supply is adequate. Inspect fuel lines for blockages. Consult service manual for glow plug inspection. |
| Low heat output       | Insufficient air supply, clogged exhaust, incorrect fuel mixture.  | Check air intake and exhaust for obstructions. Ensure proper fuel quality.  |

| Problem                   | Possible Cause                                   | Solution   |
|---------------------------|--|--|
| Excessive smoke           | Poor combustion, incorrect fuel, carbon buildup. | Use recommended diesel fuel. Perform maintenance to clean combustion chamber.                              |
| Remote/App not connecting | Out of range, Bluetooth off, pairing issue.      | Move closer to the heater. Ensure Bluetooth is enabled on your device. Re-pair the device with the heater. |

## 7. SPECIFICATIONS

| Specification                  | Detail   |
|--------------------------------|--|
| Brand                          | maXpeedingrods                                     |
| Model                          | MXR-3M   |
| Heat Output                    | 1 - 5 KW (adjustable), 3,400 - 17,000 BTU          |
| Fuel Type                      | Diesel   |
| Operating Mode                 | Heating  |
| Input Voltage                  | 12 V DC  |
| Fuel Consumption               | 0.16 to 0.5 L/h                                    |
| Operating Current Consumption  | 12 V/3 A   |
| Starting Current Consumption   | 12 V/10 A  |
| Item Weight                    | 11.4 Kilograms                                     |
| Product Dimensions (L x W x H) | 52 x 36 x 52 cm                                    |
| Maximum Operating Altitude     | 16,000 feet (4876.8 meters) with auto compensation |

## 8. WARRANTY AND SUPPORT

maXpeedingrods is committed to providing professional customer service and support. For detailed installation instructions, technical assistance, or warranty inquiries, please refer to the official maXpeedingrods website or contact their customer support directly.

Please retain your proof of purchase for warranty claims. Specific warranty terms and conditions may vary and are typically outlined in the product packaging or on the manufacturer's official channels.

## Buen Compañero de Trabajo y Viajes



Image 8.1: The maXpeedingrods diesel heater is a good companion for various work and travel scenarios, including RVs, caravans, and boats.