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maXpeedingrods MXR2850

maXpeedingrods MXR2850 2850 Watt Portable Inverter Generator User Manual

Model: MXR2850

1. INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your maXpeedingrods MXR2850 2850 Watt Portable Inverter Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.

The maXpeedingrods MXR2850 is a 4-stroke OHV gasoline inverter generator designed for various applications, including camping, outdoor events, RV use, and home power backup. It delivers 2850W maximum watts and 2200W running watts, providing clean power suitable for sensitive electronics.

Lightweight & Portable

Only 39.7lbs, easy to transport and storage



Figure 1.1: The maXpeedingrods MXR2850 Portable Inverter Generator, showcasing its compact design and control panel.

2. IMPORTANT SAFETY INFORMATION

Always follow these safety guidelines to prevent serious injury or death.

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide (CO), a colorless, odorless, poisonous gas. Operate the generator ONLY outdoors and far away from windows, doors, and vents. Never operate indoors, in a garage, or in any enclosed space.
- **Fire Hazard:** Gasoline is highly flammable. Refuel in a well-ventilated area with the engine off and cooled. Do not smoke or allow open flames near the generator.
- **Electrical Shock Hazard:** Never operate the generator in wet conditions. Ensure all electrical connections are dry and properly grounded.
- **Hot Surfaces:** The generator's engine and muffler become very hot during operation and remain hot for some time after shutdown. Avoid touching hot surfaces to prevent burns.
- **Children and Pets:** Keep children and pets away from the generator, especially during operation.

- **Read the Manual:** Always read and understand the entire instruction manual before operating the generator.

3. PRODUCT COMPONENTS AND FEATURES

Familiarize yourself with the key components and features of your MXR2850 generator.

3.1 Control Panel Overview



Figure 3.1: Detailed view of the MXR2850 control panel, highlighting various indicators and outlets.

- **VFR Meter:** Displays Voltage, Frequency, Running Time (single and cumulative).
- **CO Alert:** Carbon Monoxide detection indicator.
- **Low Oil Indicator:** Illuminates when oil level is low.
- **AC Output Indicator:** Shows when AC power is available.
- **Overload Indicator:** Illuminates if the generator is overloaded.
- **Main Switch:** ON/OFF switch for the generator.
- **ECO Mode Switch:** Engages economy mode for fuel efficiency.
- **Reset Button:** Resets the generator in case of overload.
- **USB Outlets:** Two 5V 2.1A/1A USB ports for charging devices.
- **AC 120V/20A Outlets:** Two standard AC outlets.
- **Parallel Ports:** For connecting two generators in parallel (parallel box sold separately).
- **Grounding Nut:** For proper grounding of the generator.

3.2 Key Features

- **Multifunction Power Supplier:** 2850W max watts and 2200W running watts, suitable for camping, festivals, tailgating, caravans, and home power backup.
- **Intelligent Digital Display Meter:** Easily monitor voltage, frequency, and accumulated running time for convenient maintenance.
- **Extra Long Runtime:** Runs 7 hours at 25% load (550W) and 5 hours at 50% load (1100W). Eco mode extends runtime to 10-12 hours.
- **Clean Current:** Inverter technology provides stable, clean power for sensitive electronics like phones, laptops, and cameras.

4. INITIAL SETUP

Before starting your generator for the first time, perform the following steps:

4.1 Add Engine Oil

1. Remove the maintenance cover by loosening the screws.
2. Unscrew and remove the oil dipstick.
3. Using the provided oil funnel, add 350ml of new SAE 10W-30 engine oil. Do NOT overfill; the oil level should not exceed the "H" position on the dipstick.
4. Tighten the oil dipstick securely.
5. Reinstall the maintenance cover.

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Video 4.1: Guide on how to change the engine oil for maXpeedingrods generators. This video demonstrates the process of draining old oil and adding new oil, ensuring proper levels.

4.2 Add Gasoline

1. Remove the fuel cap.
2. Add E10 gasoline. The gasoline level should NOT be higher than the red ring inside the fuel tank. The fuel tank capacity is 1.1 gallons.
3. Carefully tighten the fuel tank cap.

Digital Display Screen

Monitor the status of the generator easier



Figure 4.2: Image showing the process of adding gasoline to the generator's fuel tank. Ensure the fuel level does not exceed the indicated red ring.

5. OPERATING INSTRUCTIONS

5.1 Starting the Generator (Recoil Start)

1. Turn the three-in-one switch to the "CHOKE" position.
2. Ensure the ECO switch is in the "OFF" position.
3. Firmly grasp and pull the recoil handle slowly until you feel increased resistance, then pull rapidly.
4. Once the engine starts and runs smoothly, turn the engine switch to the "RUN" position.
5. After the AC indicator turns green, plug in your device.

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Video 5.1: Step-by-step guide on how to start the MXR2850 generator using the recoil start method. This video covers choke adjustment, pulling the cord, and switching to run mode.

5.2 Stopping the Generator

1. Remove all loads from the output receptacles.
2. Turn the three-in-one switch to the "OFF" position.
3. **NOTICE:** Always turn off the main power switch on the control panel after use. A drained battery will prevent the generator from starting.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your generator.

6.1 Clean the Air Filter

1. Take off the air filter cover.
2. Take out the sponge air filter element.
3. Wash the filter element in household detergent and warm water.
4. Use a clean cloth to slowly squeeze out excess water, then air dry naturally.
5. Spray some engine oil on the filter element. Use a clean absorbent cloth to squeeze out excess oil.
6. Place the air filter element in the assembly and install the air cleaner cover.



Laptop



Camera



Coffee Maker

Figure 6.1: Image illustrating the location of the air filter and the process of removing it for cleaning. Regular cleaning is vital for engine performance.

6.2 Drain the Gasoline for Storage

If storing the generator for an extended period, drain the gasoline to prevent fuel degradation issues.

1. Turn the three-in-one switch to the "RUN" position.
2. Loosen the drain bolt counterclockwise on the carburetor.
3. Allow gasoline to drain into a suitable container.
4. After discharging gasoline, tighten the drain bolt clockwise.
5. Install the maintenance cover.

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Video 6.2: This video demonstrates the process of draining gasoline from the generator's carburetor for long-term storage, preventing fuel system issues.

6.3 Replace the Spark Plug

1. Remove the spark plug maintenance cover.
2. Pull off the spark plug cap.
3. Turn the spark plug wrench counterclockwise to remove the old spark plug.
4. Install the new spark plug clockwise using the wrench.
5. Fasten the spark plug maintenance cover.



Figure 6.3: Image showing the location of the spark plug and the tools required for replacement. Regular spark plug replacement ensures efficient ignition.

7. TROUBLESHOOTING

If your generator encounters issues, refer to the following common troubleshooting steps. For complex problems, contact customer service.

7.1 Generator Cannot Recoil Start (First Use)

- Check Oil Level:** Ensure the oil level is correct and not overfilled. If the low oil indicator light is still yellow after filling, disconnect the oil sensor connector (this will disable the low oil warning function).
- Check Fuel System:** Verify that the entire fuel system is unobstructed. Turn the fuel switch to the "ON" or "RUN" position. Locate the carburetor and loosen the drain bolt counterclockwise to allow gasoline to drain. If gasoline flows continuously, the system is fine. If it flows intermittently or very little, the fuel system is obstructed. Check if the fuel pipe is folded or bent and correct it.
- Check Circuit System:** Remove the spark plug maintenance cover and check if the spark plug cap is inserted properly. Take out the spark plug and check for damage; replace if necessary. Check if the spark plug ignites when starting the generator (hold the spark plug against the engine case, but do not touch with bare hands due to electric shock risk). If there is no spark, check for loose or damaged plug boxes.
- Check Carburetor Choke Operation:** (Applicable to recoil start models only) Locate the throttle stepper motor above the carburetor. Turn the three-in-one switch to the "RUN" position. Loosen the fixing bolts on the carburetor and let the throttle assembly automatically return to the fully open position. Pull the cable to ensure the choke cable is straight, then tighten the cable fixing bolts. Turn the three-in-one switch to the choke position and observe whether the choke position is correct.

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Video 7.1: Troubleshooting guide for maXpeedingrods generators that cannot recoil start, covering oil levels, fuel system, circuit checks, and carburetor choke operation.

If the above checks cannot solve your problem, please contact our customer service.

8. SPECIFICATIONS

Feature	Specification
Brand	maXpeedingrods
Model Number	MXR2850
Wattage (Max)	2850 Watts
Wattage (Running)	2200 Watts
Fuel Type	Gasoline (E10 Recommended)
Power Source	Gas-powered
Recommended Uses	Camping, Outdoor, RV Ready
Item Weight	46.2 pounds (20950 Grams)
Voltage	120 Volts
Special Feature	Overload Protection, CO Alarm
Included Components	Charging Cable, Owner Manual, Oil Funnel, Spark Plug Socket Wrench, Screwdriver, US Plug
Color	Red
Engine Type	4 Stroke
Ignition System Type	Recoil Start

Feature	Specification
Tank Volume	1.1 Gallons
Engine Displacement	79.7 Cubic Centimeters
Product Dimensions	20.47 x 13.74 x 20.12 inches

9. WARRANTY AND SUPPORT

maXpeedingrods warrants all inverter generators against defects in workmanship under normal use for a period of 2 years from the date of retail purchase by the original end-user purchaser ("Warranty Period").

Free lifetime technical support and customer service are provided. For any issues not covered in this manual, please contact maXpeedingrods customer service.

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