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Reboot RBM2500PRO-47EU

Reboot RBM2500 8-in-1 Multi-Process Welder

User Manual

Model: RBM2500PRO-47EU | Brand: Reboot

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, setup, and maintenance of your Reboot RBM2500 8-in-1 Multi-Process Welder. This versatile machine supports MIG (Gas/Gasless), Stick (MMA), Lift TIG, and Spot welding, making it suitable for a wide range of welding applications, including aluminum.



Figure 1: The Reboot RBM2500 Multi-Process Welder with included accessories such as the MIG torch, ground clamp, electrode holder, and various consumables.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating welding equipment. Failure to follow these instructions can result in serious injury or death.

- **Eye and Face Protection:** Always wear a welding helmet with appropriate shade lenses to protect against arc flash and sparks.
- **Body Protection:** Wear flame-resistant clothing, welding gloves, and safety shoes. Avoid synthetic fabrics.
- **Ventilation:** Ensure adequate ventilation to remove welding fumes. Work in a well-ventilated area or use a fume extractor.
- **Fire Prevention:** Keep a fire extinguisher nearby. Remove all flammable materials from the welding area.
- **Electrical Safety:** Ensure the machine is properly grounded. Do not operate in wet conditions. Inspect cables for damage before use.
- **Work Area:** Keep the work area clean and free of clutter. Ensure stable footing.

3. PRODUCT FEATURES

The Reboot RBM2500 is designed with advanced features to enhance your welding experience:

- **All-in-One MIG Welder:** Supports both gas and gasless MIG welding. Features include inductance control, 2T/4T welding modes, and adjustable pre/post-gas flow. A quick wire feed function is available by holding the wire selection button.
- **Smart SYNERGIC & Manual MIG Mode:** Digital control automatically adjusts current and wire feed speed based on wire diameter and gas type in Synergic mode. Manual adjustments are also possible for customized welding. MAN MIG mode is available for spool gun use.
- **8-in-1 Multi-Process Welding:** Capable of Gas/Solid Wire MIG, Gasless Flux Core MIG, Stick/MMA, Spot Welding, and Lift TIG. An optional spool gun connector is available (spool gun not included). Compatible with 1kg/5kg wire spools.
- **Easy Aluminum Welding:** Pre-programmed settings for aluminum welding. For optimal results, use a 15AK MIG gun with a Teflon liner or an optional spool gun (not included).
- **High-Quality Upgrades for Superior Performance:** Improved design addresses common issues like unstable wire feeding. Features a large LED screen for easy operation and a soft-start function to prevent circuit breaker tripping, enhancing safety and machine lifespan.

8 IN 1 Multi-Process Welder



Figure 2: Overview of the 8-in-1 multi-process capabilities of the RBM2500 welder.

Weld A Wide Range Of Metals Easily

Makes Easy Welding Available to Everyone



Figure 3: The RBM2500 welder is capable of welding a wide range of metals, including aluminum, carbon steel, stainless steel, iron, and various alloys.

4. COMPONENTS INCLUDED

Your Reboot RBM2500 package typically includes the following components:

- 1 x Reboot RBM2500 PRO MIG Welding Machine
- 1 x MIG Welding Torch (15AK)
- 1 x Ground Clamp
- 1 x Electrode Holder
- 1 x Gas Hose
- 1 x User Manual
- Additional accessories may include: Welding Wire, Teflon Liner, Hose Clamps, Groove Rollers (x2), Contact Tips (x30), Nozzles (x2).

SIZE & ACCESSORIES



Figure 4: Included accessories and the compact dimensions of the RBM2500 welder.

5. SETUP

5.1 Power Connection

Connect the welder to a suitable power supply (230 Volts AC). Ensure the power outlet is properly grounded and can handle the machine's current requirements. The soft-start feature will slowly power on the unit.

5.2 Wire Installation

Open the wire feed compartment. Place the appropriate welding wire spool (1kg or 5kg) onto the spindle. Thread the wire through the wire pressing wheel and into the wire feeding roller, then into the MIG torch liner.

Wire Feed Structure

Stable and Smooth Wire Feed

1

Welding Wire
2.2lbs-11lbs/.023"-.040"

3

Automatic Wire Feed

2

Wire Pressing Wheel

4

Wire Feeding Roller



Figure 5: The internal wire feed mechanism ensures stable and smooth wire delivery.

5.3 Gas Connection (for Gas MIG)

If performing Gas MIG welding, connect one end of the gas hose to the gas inlet on the rear of the welder and the other end to your gas cylinder regulator. Ensure all connections are secure and leak-free.

5.4 Connecting Accessories

- **MIG Torch:** Connect the MIG torch cable to the front panel connector.
- **Ground Clamp:** Attach the ground clamp cable to the negative (-) terminal and secure the clamp to the workpiece.
- **Electrode Holder:** For Stick (MMA) welding, connect the electrode holder cable to the positive (+) terminal.

6. OPERATING INSTRUCTIONS

6.1 Control Panel Overview

The large LED display provides clear and accurate data. Familiarize yourself with the controls for mode selection,

current, voltage, and wire feed speed.

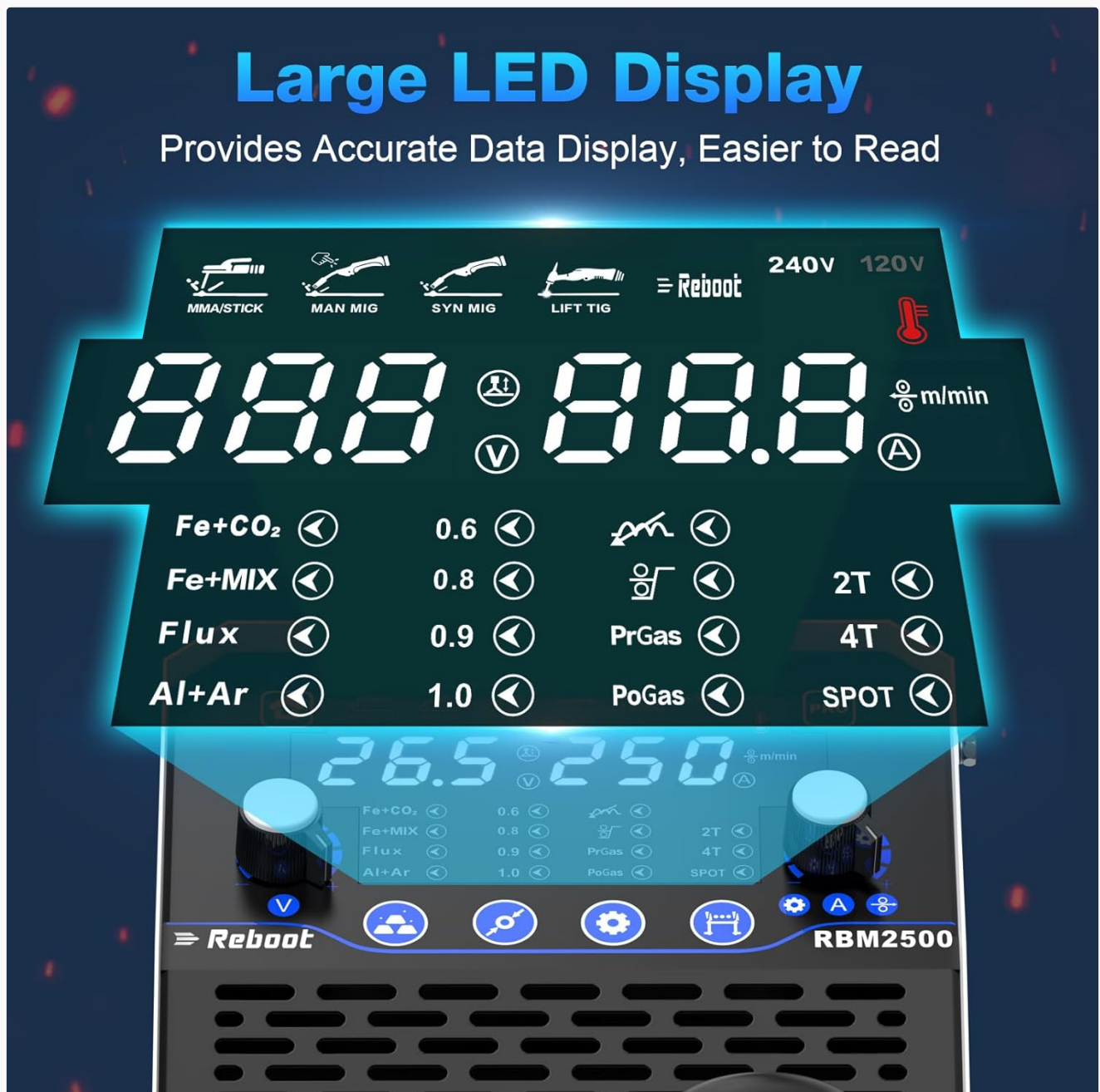


Figure 6: The intuitive LED display and control knobs for precise welding parameter adjustments.

6.2 Mode Selection

Use the mode selection knob to choose between MMA/Stick, MAN MIG (Manual MIG), SYN MIG (Synergic MIG), and Lift TIG. The display will show the selected mode.

6.3 Synergic vs. Manual MIG

- **Synergic MIG:** The machine automatically sets optimal current and wire feed speed based on your selected wire diameter and gas type. This is ideal for beginners or quick setup.
- **Manual MIG:** Provides full control over voltage and wire feed speed, allowing experienced welders to fine-tune settings for specific applications.

6.4 2T/4T Modes

- **2T (Two-Touch):** Press and hold the torch trigger to weld; release to stop. Suitable for short welds.
- **4T (Four-Touch):** Press and release the trigger to start welding; press and release again to stop. Ideal for

long welds, reducing hand fatigue.

6.5 Welding Aluminum

The RBM2500 has pre-programmed settings for aluminum. Select the 'Al+Ar' option on the display. For best results, use a 15AK MIG gun with a Teflon liner or an optional spool gun (not included) to ensure smooth feeding of soft aluminum wire.



Figure 7: The RBM2500 is suitable for various welding environments, from workshops to outdoor job sites.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your welding machine.

- **Cleaning:** Periodically clean the machine's exterior and ventilation openings to prevent dust and debris buildup. Use compressed air to clear internal components if necessary (ensure power is disconnected).
- **Wire Feed Rollers:** Inspect and clean the wire feed rollers regularly to ensure smooth wire feeding. Replace if worn.
- **MIG Torch:** Clean the contact tip, gas nozzle, and diffuser regularly. Replace worn parts to maintain arc

stability and gas flow.

- **Cables and Connections:** Inspect all cables for cuts, abrasions, or loose connections before each use.

8. TROUBLESHOOTING

If you encounter issues with your RBM2500 welder, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unstable Wire Feed	Worn wire feed rollers, incorrect tension, dirty liner, wrong wire size for groove.	Clean or replace rollers, adjust tension, clean torch liner, ensure correct wire/groove match.
Poor Welding Results	Incorrect settings (voltage/current/WFS), improper gas flow, contaminated workpiece, worn consumables.	Adjust settings, check gas supply/flow, clean workpiece, replace contact tip/nozzle.
No Arc	Loose connections, no power, faulty torch/ground clamp, machine error.	Check all connections, verify power supply, inspect torch/clamp, consult manual for error codes.
Overheating	Exceeding duty cycle, blocked ventilation.	Allow machine to cool down, ensure clear ventilation paths.

9. SPECIFICATIONS

Feature	Detail
Model Number	RBM2500PRO-47EU
Manufacturer	Reboot-EU
Power Type	AC/DC Inverter
Voltage	230 Volts
Package Dimensions	49.79 x 34.29 x 32.9 cm
Item Weight	11.25 kilograms (approx. 24.8 lbs)
Welding Processes	MIG (Gas/Gasless), Stick (MMA), Lift TIG, Spot Welding
Wire Compatibility	1kg/5kg spools

10. WARRANTY AND SUPPORT

Reboot-EU, with 13 years of experience in welding equipment, stands behind the quality of its products. For any questions, technical assistance, or warranty claims, please contact the seller directly through your purchase platform. Please retain your proof of purchase for warranty purposes.

For more information about Reboot products and accessories, visit the official Reboot brand store or contact customer support.

