

Reboot MIG2500

Reboot Multi-process 6-in-1 MIG Welder 250Amp (MIG2500) User Manual

Model: MIG2500 / RBM2500 TIG

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your Reboot Multi-process 6-in-1 MIG Welder 250Amp (MIG2500). Please read this manual thoroughly before using the welding machine to ensure proper functionality and to prevent injury or damage.

The Reboot MIG2500 is a versatile welding machine designed for various welding processes, including Gas MIG (GMAW), Gasless Flux Core MIG (FCAW), Stick (MMA), Lift TIG, Spot Welding, and optional Spool Gun welding for aluminum.

2. SAFETY INFORMATION

WARNING: Welding can be dangerous. Always follow safety precautions to prevent serious injury or death.

- **Electric Shock Can Kill:** Do not touch live electrical parts. Wear dry welding gloves and protective clothing. Ensure the welding machine is properly grounded.
- **Fumes and Gases Can Be Hazardous:** Keep your head out of the fumes. Use enough ventilation or exhaust at the arc to keep fumes and gases away from the breathing zone.
- **Arc Rays Can Burn Eyes and Skin:** Wear a welding helmet with a proper shade of filter to protect your face and eyes. Wear appropriate protective clothing to protect your skin.
- **Fire and Explosion Hazard:** Remove all flammable materials from the welding area. Have a fire extinguisher nearby.
- **Hot Parts Can Cause Severe Burns:** Allow equipment to cool before touching. Wear heavy, insulated welding gloves.
- **Magnetic Fields:** Pacemaker wearers should consult their doctor before operating.
- Always ensure the machine is turned off and unplugged before performing any maintenance or adjustments.

3. PRODUCT OVERVIEW

Key Features

- **6-in-1 Multi-Process Welding:** Supports Gas MIG (GMAW), Gasless Flux Core MIG (FCAW), Stick (MMA), Lift TIG, Spot Welding, and optional Spool Gun for aluminum.

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Figure 3.1: Reboot MIG2500 Multi-process Welder and included accessories.

6 IN 1

MULTI-FUNCTION WELDING MACHINE

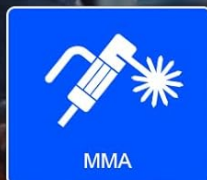


Figure 3.2: Overview of the 6-in-1 welding functions: Gas MIG, MMA, Flux Core MIG, Spot Welding, Lift TIG, and Spool Gun.

MULTIFUNCTION WELDER

MAKES EASY WELDING AVAILABLE TO EVERYONE



Intelligent high-speed cooling fan



Safety and stability



Low noise

Suitable Welding Material



Carbon Steel



Stainless Steel



Iron



Alloy

Figure 3.3: The MIG2500 welder is suitable for welding carbon steel, stainless steel, iron, and various alloys.

4. SETUP

4.1 Power Connection

Connect the welding machine to a 230V power supply. Ensure the power outlet is properly grounded and can handle the machine's maximum current draw (250Amp).

4.2 Wire Installation

The MIG2500 supports 1KG/5KG welding wire spools. Follow these steps to install the wire:

1. Open the wire spool compartment.
2. Place the welding wire spool onto the spindle.
3. Thread the wire through the wire pressing wheel and into the automatic wire feed mechanism.
4. Ensure the wire feeding wheel is correctly tensioned for the wire diameter.

WIRE FEED STRUCTURE

STABLE AND SMOOTH WIRE FEED

1

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

2

Automatic Wire Feed

3

Wire Pressing Wheel

4

Wire Feeding Wheel



Figure 4.1: Wire Feed Structure. 1. Welding Wire, 2. Wire Pressing Wheel, 3. Automatic Wire Feed, 4. Wire Feeding Wheel.

4.3 Gas Connection (for Gas MIG)

For Gas MIG welding, connect your shielding gas cylinder (e.g., Argon, CO2, or Argon/CO2 mix) to the gas inlet on the rear of the machine using a regulator and gas hose. Ensure all connections are secure and leak-free.

4.4 Aluminum Welding Setup

The MIG2500 offers two methods for welding aluminum:

- **Teflon Liner:** Install the included Teflon liner into your MIG 15AK torch. This helps prevent soft aluminum wire from kinking.
- **Spool Gun (Optional):** For optimal aluminum welding, a spool gun (not included) can be connected to the machine. This provides a direct, short path for the aluminum wire, reducing feeding issues.



Figure 4.2: Two methods for aluminum welding: Teflon liner (included) or optional spool gun.

4.5 Adapter Wire Compatibility

The machine is compatible with various wire types and sizes:

- Solid Wire: .023" / .030" / .035"
- Flux Core Wire: .030" / .035" / .040"
- Aluminum Wire: .040"
- Copper Wire: .040"



Figure 4.3: Compatible welding wire types and sizes.

5. OPERATING INSTRUCTIONS

5.1 Control Panel Overview

The MIG2500 features a large LED display and intuitive controls for selecting welding modes and adjusting parameters.



Figure 5.1: Control Panel Introduction. Key areas include: A. Large LED digital screen display, B. Weld mode selection button, C. Current and wire feed speed adjust knob, D. Voltage adjust knob, E. Material and gas selection button, F. Welding wire diameter selection button, G. Function selection in MIG mode (G1. Inductance adjustment, G2. Slow wire feeding adjustment), H. 2T/4T/SPOT weld.

5.2 Welding Modes

Select the desired welding mode using the control panel. Each mode has specific settings and applications.



Figure 5.2: A variety of welding modes available: Stick/MMA, MIG Flux Cored (FCAW), MIG Gas (GMAW), Lift TIG, Spot Welding, and Spool Gun Welding.

- **MIG (Gas/Gasless Flux Core):**

Select MIG mode. Choose between Synergic (automatic parameter matching based on wire diameter and material/gas) or Manual mode. Adjust current/wire feed speed and voltage as needed. Use 2T for standard trigger operation or 4T for continuous welding without holding the trigger.

- **Stick / MMA:**

Select MMA mode. Connect the electrode holder and ground clamp. Adjust the current according to the electrode type and size.

- **Lift TIG:**

Select TIG mode. Connect the TIG torch and ground clamp. Ensure a shielding gas (e.g., Argon) is connected. Initiate the arc by gently touching the tungsten electrode to the workpiece and lifting it slightly.

- **Spot Welding:**

Select SPOT mode. This function is suitable for welding automobile body and carriage repairs.

- **Spool Gun (Optional):**

If using an optional spool gun for aluminum welding, select the appropriate MIG mode and ensure the spool gun is connected. It is recommended to use Manual MIG mode with a spool gun.



Figure 5.3: Example of Lift TIG welding in progress.



POWERFUL GAS MIG/FLUX CORE MIG WELDING

Extra Spot welding function, suitable for the welding of automobile body and carriages

Figure 5.4: Demonstrating powerful Gas MIG or Flux Core MIG welding capabilities.

6. MAINTENANCE

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

- **Cleaning:** Periodically clean the machine's exterior with a dry cloth. Use compressed air to clear dust from internal components, ensuring the machine is unplugged first.
- **Wire Feed Mechanism:** Inspect the wire feed rollers and liner for wear or debris. Clean or replace as necessary to ensure smooth wire feeding.
- **Consumables:** Regularly check and replace MIG nozzles, contact tips, TIG collets, and electrodes as they wear out.
- **Cables and Connections:** Inspect all welding cables, power cords, and gas hoses for damage. Replace any damaged components immediately.
- **Ventilation:** Ensure the cooling fan and ventilation openings are clear of obstructions to prevent overheating.

7. TROUBLESHOOTING

This section addresses common issues you might encounter during operation.

Problem	Possible Cause	Solution
No arc / Poor arc starting	Improper grounding, incorrect settings, worn consumables, power issue.	Check ground clamp connection. Verify welding parameters. Replace contact tip/electrode. Ensure power supply is stable.
Wire feeding issues (kinking, irregular feed)	Incorrect tension on wire feed rollers, clogged liner, wrong size contact tip, damaged wire.	Adjust wire feed tension. Clean or replace liner. Use correct contact tip for wire size. Inspect wire for damage.
Overheating / Machine shuts down	Exceeding duty cycle, blocked ventilation, internal fault.	Allow machine to cool down. Ensure ventilation openings are clear. If persistent, contact support.
Porosity in weld	Insufficient shielding gas, contaminated workpiece, incorrect gas flow, draft in welding area.	Check gas cylinder level and connections. Clean workpiece thoroughly. Adjust gas flow rate. Shield welding area from drafts.

8. SPECIFICATIONS

Feature	Detail
Model	MIG2500 (RBM2500 TIG)
Input Voltage	230V
Max Amperage	250 Amp
Welding Processes	Gas MIG (GMAW), Gasless Flux Core MIG (FCAW), Stick (MMA), Lift TIG, Spot Welding, Spool Gun (optional)
Wire Compatibility	Solid Wire: .023"/.030"/.035"; Flux Core Wire: .030"/.035"/.040"; Aluminum Wire: .040"; Copper Wire: .040"
Wire Spool Size	1KG / 5KG
Dimensions (L x W x H)	43 x 18.5 x 30 cm (16.9 x 7.3 x 11.8 inches)
Weight	13 kg (28.7 lbs)
Power Type	Electric with wire



Figure 8.1: Product dimensions and included accessories, also indicating a 1-year warranty.

9. WARRANTY AND SUPPORT

9.1 Warranty


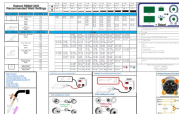

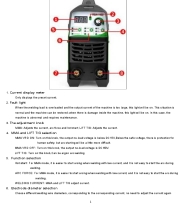

The Reboot MIG2500 welding machine comes with a **1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable operation under normal use. Please retain your proof of purchase for warranty claims.


9.2 Customer Support

For any questions, technical assistance, or support regarding your Reboot welding machine, please contact Reboot customer service. Timely support is available to assist with setup, operation, troubleshooting, and parts inquiries.

Refer to the contact information provided with your product packaging or visit the official Reboot website for support details.

Related Documents - MIG2500

	<p>Reboot RBM1600 Operation Manual: Your Guide to MMA, MIG, and LIFT TIG Welding</p> <p>Comprehensive operation manual for the Reboot RBM1600 welding machine. Learn to use MMA, MIG (Gas/Gasless), and LIFT TIG modes with detailed instructions, technical specifications, and troubleshooting tips for optimal performance.</p>
	<p>Reboot RBM2100D Recommended Weld Settings Guide</p> <p>A comprehensive guide detailing recommended welding settings for the Reboot RBM2100D multi-process welder. This document covers settings for MIG, TIG, and Stick welding processes, including various electrode types, wire types, and wire diameters, along with control panel descriptions and installation instructions.</p>
	<p>Reboot RBM1300 Welding Machine Operation Manual</p> <p>This manual provides detailed instructions for operating the Reboot RBM1300 welding machine, covering its features, setup, different welding modes (MMA, MIG Gas, MIG Gasless, LIFT TIG), technical specifications, safety precautions, and troubleshooting.</p>
	<p>Reboot RBA1400 & RBA1400D Welding Machine Operation Manual</p> <p>Detailed operation manual for Reboot RBA1400 and RBA1400D welding machines. Covers machine introduction, parts, setup, MMA and LIFT TIG modes, technical specifications, troubleshooting, and welding parameters. Includes safety tips and internal component descriptions.</p>
	<p>Reboot RBM1300 Operation Manual: Your Guide to Advanced Welding</p> <p>Discover the capabilities of the Reboot RBM1300 welding machine. This comprehensive manual covers operation, technical specifications, and troubleshooting for MMA, MIG, and LIFT TIG welding modes.</p>

<div><div>Reboot RBM2000P Operation Manual</div><div><p>Reboot RBM2000P welding machine uses the latest and most advanced IGBT technology and features an IGBT inverter and full bridge rectifier, which is designed to improve the power factor and reduce the energy consumption. The machine is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding. The machine is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding. The machine is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding.</p><p>The machine is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding. The machine is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding. The machine is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding.</p></div><div><p>Part 1: Machine Introduction</p><p>1. General description: The machine is a portable, self-contained unit. It is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding. The machine is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding.</p><p>2. Safety instructions: The machine is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding. The machine is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding. The machine is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding.</p><p>3. General safety: The machine is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding. The machine is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding. The machine is designed to be used in a wide range of applications, including MMA, MIG, and Pulse MIG welding.</p></div></div>	<div><div>Reboot RBM2000P Operation Manual: Welding Machine Guide</div><div><p>Comprehensive operation manual for the Reboot RBM2000P welding machine. Learn about its features, MMA, MIG, and Pulse MIG welding modes, technical specifications, setup, operation, and troubleshooting for efficient welding.</p></div></div>
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