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› Reboot MIG Welder RBM2500D PRO Instruction Manual

Reboot RBM2500D PRO

Reboot MIG Welder RBM2500D PRO Instruction Manual

Your comprehensive guide to operating and maintaining your Reboot 6-in-1 Multi-Process Welding Machine.

1. INTRODUCTION

The Reboot RBM2500D PRO is a versatile 6-in-1 multi-process welding machine designed for both novice and professional welders. It supports Gas/Solid Wire MIG (GMAW), Gasless Flux Core MIG (FCAW), Stick (MMA), Lift TIG, Spot welding, and Spool Gun operations. This manual provides essential information for safe and effective use, setup, operation, and maintenance of your welding machine.



Figure 1: The Reboot RBM250D PRO welding machine with included accessories, showcasing its compact design and comprehensive kit.

2. SAFETY INFORMATION

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

- Wear appropriate Personal Protective Equipment (PPE) including welding helmet, gloves, protective clothing, and safety shoes.
- Ensure adequate ventilation to avoid inhaling welding fumes.
- Keep flammable materials away from the welding area.
- Always disconnect power before performing maintenance or changing accessories.
- Do not operate the machine in wet conditions.
- Refer to local safety regulations and standards for welding operations.

3. PACKAGE CONTENTS

Upon opening your Reboot RBM2500D PRO package, verify that all the following items are included:

- Reboot RBM2500D PRO Welding Machine
- Electrode holder with cable
- Welding clamp with cable
- Welding hose
- Instruction Manual
- MB15 MIG Torch with Teflon liner for aluminum welding
- Three wire feed wheels:
 - One knurled type 0.8/0.9 mm (for flux core wire) - pre-installed
 - One V-type 0.8/1.0 mm (for solid wire)
 - One U-type 1.0/1.2 mm (for aluminum wire)
- 32PCS Consumables:
 - 10pcs .030" electrodes
 - 10pcs .035" electrodes
 - 10pcs .040" electrodes
 - 2pcs ceramic nozzles



Figure 2: Visual representation of the items included in the product package.

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Video 1: Unboxing and contents of the Reboot RBM2500D PRO welding machine package.

4. PRODUCT OVERVIEW

The RBM2500D PRO features a large LED digital display for clear parameter readings and easy adjustments. It supports multiple welding processes and is designed for stable and smooth wire feeding.

LARGE LED DISPLAY

PROVIDES ACCURATE DATA DISPLAY, EASIER FOR BEGINNERS



Figure 3: Detailed view of the large LED digital display, providing accurate data and ease of use.

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 Wheel

1

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

2

Wire Pressing Wheel

3

Automatic Wire Feed

4

Wire Feeding Wheel



Figure 4: Illustration of the wire feed mechanism, ensuring stable and smooth wire delivery.



Figure 5: Overview of the six welding functions available with this machine.

Reboot

MODEL:RBM-2500

EN60974-1:2012			
	U ₀ =52V	40A/16Vto250A/26.5V	
		X	60%
		I ₂	250
		U ₂	26.5
	U ₀ =52V	20A/20.8Vto250A/30V	
		X	60%
		I ₂	250
		U ₂	30
	U ₀ =16V	15A/10.8Vto250A/20V	
		X	60%
		I ₂	250
		U ₂	20
		U ₁ =240V	I _{1max} = 48.8A 55.1A 36.7A
		I _{1eff} = 36.7A 42.6A 28.4A	

	U ₀ =52V	40A/16Vto182A/23.1V	
		X	60%
		I ₂	182
		U ₂	23.1
	U ₀ =52V	20A/20.8Vto182A/27.3V	
		X	60%
		I ₂	182
		U ₂	27.3
	U ₀ =52V	15A/10.6Vto182A/17.3V	
		X	60%
		I ₂	182
		U ₂	17.3
		U ₁ =120V	I _{1max} = 65A 76A 48A
		I _{1eff} = 48A 56.5A 36A	

5. SETUP

5.1 Power Connection

The RBM2500D PRO operates on both 120V and 240V power sources. Ensure the correct power adapter is used and the machine is connected to a suitable electrical outlet.

5.2 Wire Feed Wheel Installation

The machine comes with three types of wire feed wheels. Select the appropriate wheel based on your welding wire type (flux core, solid, or aluminum) and diameter. The knurled type 0.8/0.9 mm wheel for flux core wire is pre-installed.

5.3 MIG Torch Setup

For aluminum welding, install the included Teflon liner in the MIG torch. This prevents wire feeding issues with softer aluminum wire.



Figure 7: Methods for setting up the machine for aluminum welding.

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Video 2: Guide on replacing the MIG gun nozzle and liner for different wire types.

6. OPERATING

6.1 Welding Modes

The RBM2500D PRO offers six distinct welding modes:

- **Gas/Solid Wire MIG (GMAW):** For welding with shielding gas and solid wire.
- **Gasless Flux Core MIG (FCAW):** For welding without external shielding gas, using flux-cored wire.
- **Stick (MMA):** Manual Metal Arc welding using coated electrodes.
- **Lift TIG:** Tungsten Inert Gas welding with a lift-arc start (TIG torch not included).
- **Spot Welding:** For quick, localized welds.
- **Spool Gun:** For welding with a spool gun, especially recommended for aluminum (spool gun not included).

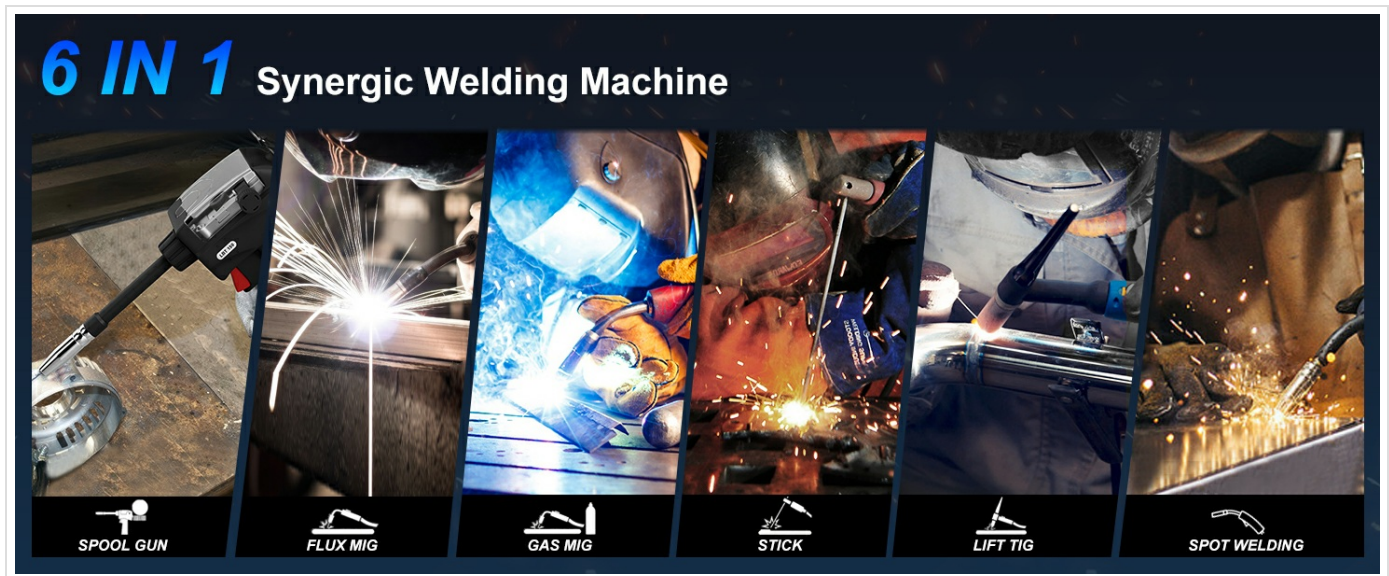


Figure 8: Visual guide to the different welding modes and their typical setups.

6.2 Synergic and Manual MIG

The Synergic MIG mode simplifies setup by automatically adjusting parameters based on wire size selection. Manual MIG mode allows for fine-tuning of parameters to suit specific welding habits and applications.

6.3 2T/4T Functionality

2T (Two-Touch): Press and hold the gun switch to start welding; release to stop. Ideal for short welds.

4T (Four-Touch): Press and release the gun switch to start welding, allowing continuous operation without holding the switch. Press and release again to stop. Suitable for long welding operations, reducing welder fatigue.

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Video 3: Demonstration of 2T/4T functionality for MIG welding.

6.4 Welding Demonstrations

Observe the following videos for practical demonstrations of various welding processes:

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Video 4: RBM2500 Solid wire 1.0mm welding demonstration.

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Video 5: RBM2500 Aluminum welding demonstration.

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Video 6: RBM2500 MIG gasless flux core welding demonstration.

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Video 7: RBM2500 Spot welding demonstration.

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Video 8: RBM2500 250A Gas gasless tig stick spool gun spot welder overview and demonstration.

7. MAINTENANCE

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

- Clean the machine regularly to prevent dust and debris buildup, especially around cooling vents.
- Inspect cables and connections for wear or damage before each use. Replace any damaged components immediately.

- Check the MIG torch consumables (contact tip, nozzle, diffuser) and replace them as needed.
- Ensure the wire feed mechanism is clean and free of obstructions.
- Store the machine in a dry, clean environment when not in use.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your welding machine.

Problem	Possible Cause	Solution
No power to the machine	Power cord unplugged, circuit breaker tripped, faulty power switch.	Check power connection, reset breaker, contact support if switch is faulty.
Wire not feeding smoothly	Incorrect wire feed tension, clogged liner, wrong wire feed wheel, tangled wire.	Adjust tension, clean/replace liner, ensure correct wheel is installed, untangle wire.
Poor weld quality (e.g., excessive spatter, weak penetration)	Incorrect voltage/amperage settings, improper wire speed, wrong gas type/flow, dirty workpiece.	Adjust settings according to material and wire, ensure proper gas flow, clean workpiece thoroughly.
Machine overheats and shuts down	Exceeded duty cycle, blocked cooling vents, prolonged heavy use.	Allow machine to cool down, clear vents, reduce continuous welding time.

9. SPECIFICATIONS

Feature	Detail
Model Number	RBM2500D PRO
Manufacturer	Reboot
Item Weight	22.6 pounds
Product Dimensions	15.28 x 7.2 x 9.45 inches
Color	White & Blue
Power Source	AC
Voltage	120/240 Volts
Welding Processes	Gas/Solid Wire MIG (GMAW), Gasless Flux Core MIG (FCAW), Stick (MMA), Lift TIG, Spot, Spool Gun
Supported Wire Sizes	.023"/.030"/.035" solid wire, .023"/.030"/.035" flux core wire, .040" aluminum wire

10. WARRANTY & SUPPORT

Your Reboot welding machine is guaranteed for one year from the date of purchase. For technical support, warranty claims, or any inquiries, please contact Reboot-USA directly. Our team is always available to assist you.

For more information, visit the [Reboot Store on Amazon](#).

