

Reboot RBM-1550D

Reboot RBM-1550D Multi-Process Welder Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your Reboot RBM-1550D Multi-Process Welder. Please read it thoroughly before use and retain it for future reference. This machine is a versatile 5-in-1 IGBT inverter welder designed for various welding processes.

Key Features:

- **Synergic Control:** Automatic adjustment of voltage and wire feeding speed based on amperage or material thickness.
- **Multi-Process 5-in-1:** Supports Gas/Solid Wire MIG (GMAW), Gasless Flux Core MIG (FCAW), Stick/MMA, Lift TIG, and is spool gun compatible.
- **Dual Voltage:** Operates on 110V/220V input with 150A output current.
- **User-Friendly Interface:** Designed for ease of operation with clear controls.
- **Portable Design:** Lightweight and energy-efficient for various applications.

2. SAFETY INFORMATION

Welding can be hazardous. Always follow safety precautions to prevent injury or damage. This section outlines general safety guidelines. Refer to local safety regulations and standards for comprehensive information.

General Safety Precautions:

- **Electric Shock:** Can kill. Ensure proper grounding and insulation. Never touch live electrical parts.
- **Fumes and Gases:** Can be hazardous to your health. Work in a well-ventilated area.
- **Arc Rays:** Can burn eyes and skin. Wear appropriate welding helmet with proper shade and protective clothing.
- **Fire and Explosion:** Welding sparks can cause fire or explosion. Keep flammable materials away from the work area.
- **Hot Parts:** Can cause severe burns. Allow equipment to cool before touching.
- **Noise:** Excessive noise can damage hearing. Wear hearing protection.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, contact customer support.

- Reboot RBM-1550D Welder Unit
- MIG Torch
- Electrode Holder (for Stick welding)
- Earth Clamp
- Gas Hose
- Flux Cored Welding Wire (0.5kg)
- Contact Tips and Nozzles
- Drive Roll (for 0.8/1.0mm wire)
- User Manual



Figure 3.1: Reboot RBM-1550D Welder and its standard accessories.

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Video 3.1: Overview of items included in the RBM-1550D package.

4. PRODUCT OVERVIEW

4.1 Front Panel

The front panel features the control interface for selecting welding modes, adjusting parameters, and displaying current settings.

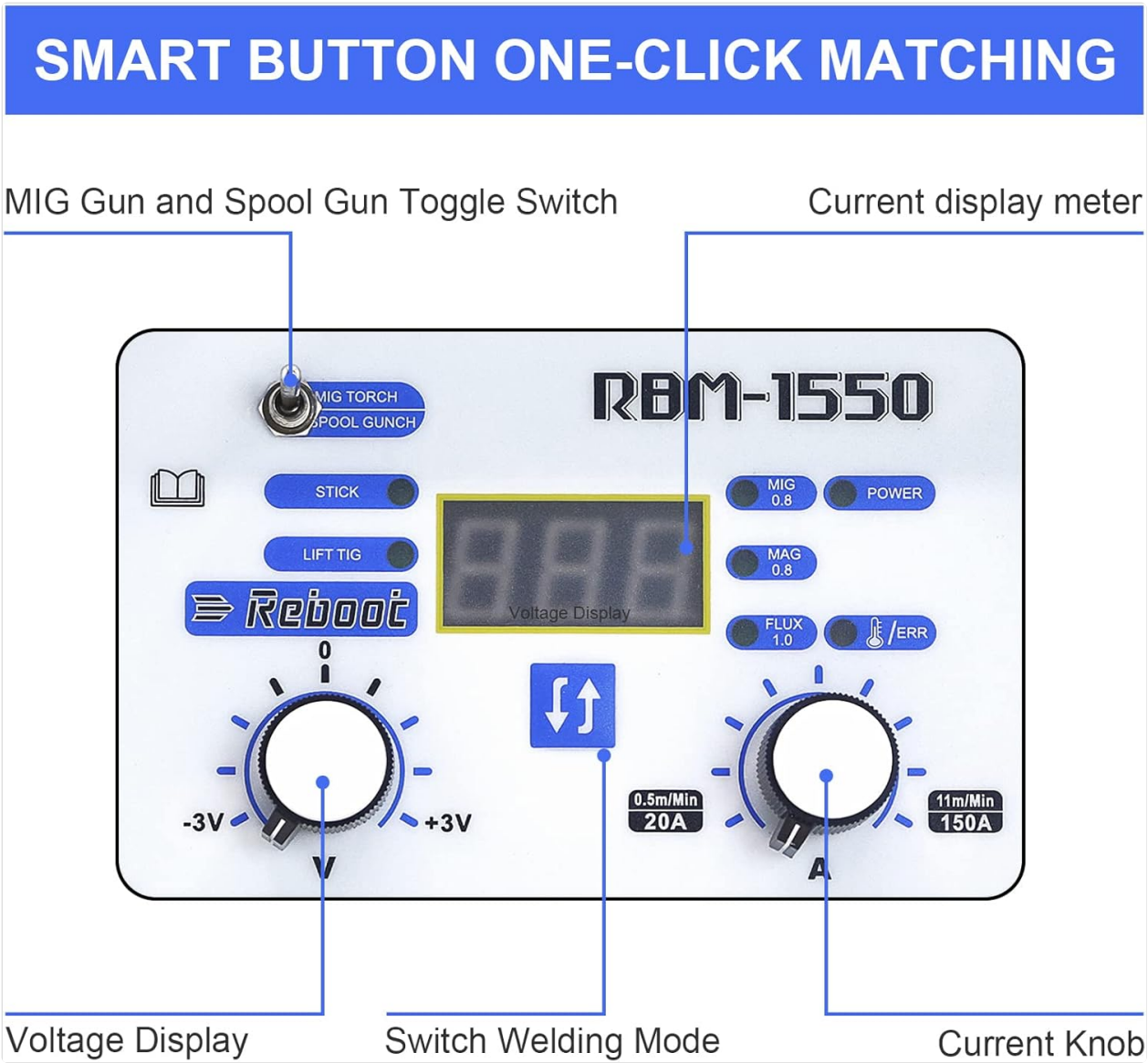


Figure 4.1: Detailed view of the RBM-1550D front panel with controls and display.

4.2 Internal Wire Feed Mechanism

The internal compartment houses the wire spool and wire feed mechanism. Ensure proper wire installation and tension for consistent welding.



Figure 4.2: View of the internal wire feed mechanism and wire spool installation area.

4.3 Rear Panel

The rear panel includes the power switch, gas inlet, and cooling fan. Always ensure adequate ventilation during operation.



Figure 4.3: Rear view of the RBM-1550D showing power input, gas connection, and cooling fan.

5. SETUP

Proper setup is crucial for safe and effective welding. Follow the instructions for your desired welding process.

5.1 Power Connection

- Ensure the welder is connected to a suitable 110V or 220V power supply.
- Use the appropriate power plug for your region.

5.2 MIG Gas Welding Setup (GMAW)

For Gas MIG welding, connect the gas hose to the welder's gas inlet and to your shielding gas cylinder. Ensure all connections are secure and leak-free.

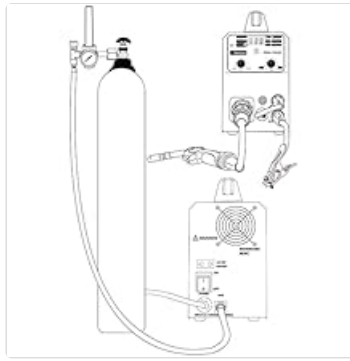


Figure 5.1: Diagram for MIG Gas welding setup, showing gas cylinder and connections.

5.3 Gasless Flux Core Welding Setup (FCAW)

For Gasless Flux Core welding, no external shielding gas is required. Ensure the correct polarity is set on the machine (DCEN).

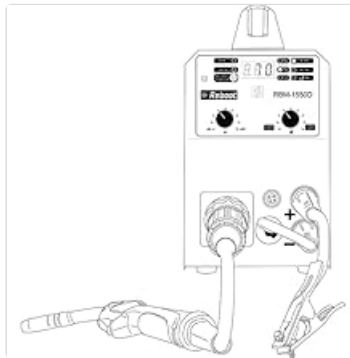


Figure 5.2: Diagram for Gasless Flux Core welding setup.

5.4 Lift TIG Welding Setup

For Lift TIG welding, connect the TIG torch and ensure the correct polarity (DCEN). A separate TIG torch is required and not included in the standard package.

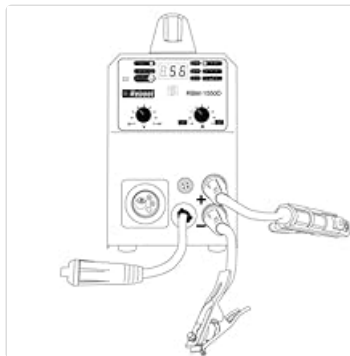


Figure 5.3: Diagram for Lift TIG welding setup.

5.5 Stick Welding Setup (MMA)

For Stick welding, connect the electrode holder and earth clamp. Ensure correct polarity (DCEP).

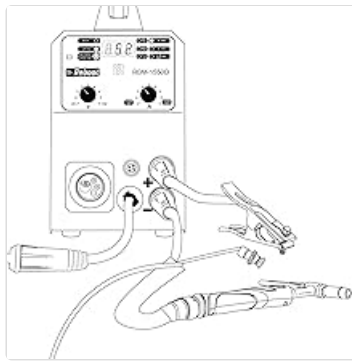


Figure 5.4: Diagram for Stick welding setup.

6. OPERATING INSTRUCTIONS

The RBM-1550D features synergic control, simplifying parameter adjustments. The main amperage knob automatically adjusts wire speed and voltage for optimal results. Fine-tuning of voltage is possible via a dedicated knob.

6.1 Flux Core Welding Demonstration

This video demonstrates flux core welding on 3/16 inch plate, showcasing the machine's performance with 0.030 inch flux core wire at 105 amps.

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Video 6.1: Flux core welding demonstration with the RBM-1550D.

6.2 MIG Gas Welding Demonstration

This video illustrates MIG gas welding with solid wire, highlighting the smooth arc and minimal spatter achieved with the synergic control.

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Video 6.2: MIG gas welding demonstration with the RBM-1550D.

6.3 Stick Welding Demonstration

Observe the RBM-1550D performing stick welding with E6013 electrodes on 1/2 inch steel, demonstrating its capability in MMA mode.

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Video 6.3: Stick welding demonstration with the RBM-1550D.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your welder. Always disconnect power before performing any maintenance.

General Maintenance Tips:

- **Cleaning:** Keep the machine clean and free from dust and debris. Use compressed air to clean the cooling fan and internal components periodically.
- **Wire Feed Mechanism:** Inspect the drive rolls and liner for wear. Clean any debris from the wire path to prevent feeding issues.
- **Torch and Cables:** Check the MIG torch nozzle, contact tip, and diffuser for spatter buildup and wear. Replace

consumables as needed. Inspect all cables for damage.

- **Gas Connections:** For Gas MIG, regularly check gas hose connections for leaks.

8. TROUBLESHOOTING

If you encounter issues with your RBM-1550D welder, refer to the table below for common problems and solutions. For persistent issues, contact customer support.


| Problem | Possible Cause | Solution |
|-------------------------|---|--|
| No Arc / Weak Arc | Incorrect settings, poor ground connection, wrong polarity, worn consumables. | Verify welding parameters, ensure good ground, check polarity, replace contact tip/nozzle. |
| Wire Feeding Issues | Incorrect drive roll, tangled wire, worn liner, incorrect tension. | Use correct drive roll for wire size, untangle wire, replace liner, adjust tension. |
| Overheating (ERR light) | Exceeded duty cycle, blocked ventilation. | Allow machine to cool down, ensure clear airflow to cooling fan. |
| Poor Weld Quality | Incorrect parameters, dirty material, improper technique. | Adjust voltage/ampereage, clean workpiece, practice technique. |

9. SPECIFICATIONS

| Feature | Specification |
|-------------------------|---|
| Manufacturer | Reboot |
| Model Number | RBM-1550D |
| Input Voltage | 110V/220V Dual Volt |
| Output Current | 155A (Max) |
| Duty Cycle | 100% at 150A |
| Welding Thickness Range | 1/50" - 1/4" |
| Supported Wire Sizes | 0.030"/.035"/.040" solid wire or flux core wire, 0.035"/.040" aluminum wire |
| Item Weight | 23.6 pounds |
| Package Dimensions | 17.2 x 14.2 x 12.2 inches |

10. WARRANTY AND SUPPORT

Reboot offers a **1-year new replacement warranty** for this welder. Additionally, you are covered by a 30-day 100% satisfaction and acceptable returns policy. For any technical assistance, troubleshooting, or warranty claims, please contact our professional engineers and after-sales customer service team, available 24/7. For further support, visit the [Reboot Store on Amazon](#).

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| <div><div><div>Reboot RBM2000P</div><div>Operation Manual</div></div><div><p>Reboot RBM2000P welding machine uses the latest and most advanced IGBT technology and features an IGBT power supply with a 100% duty cycle, which is designed to improve the welding performance.</p><p>It includes an optional TIG torch holder and an optional TIG torch holder. It is designed to be used with a TIG torch holder and an optional TIG torch holder. It is designed to be used with a TIG torch holder and an optional TIG torch holder.</p><p>Reboot RBM2000P welding machine is designed to be used with a TIG torch holder and an optional TIG torch holder. It is designed to be used with a TIG torch holder and an optional TIG torch holder.</p></div><div><p>Part 1: Machine Introduction</p></div><div><p>1. Control Panel</p><p>The control panel is located on the front of the machine. It includes the following controls:</p><ul style="list-style-type: none">Power switch: To turn the machine on and off.Mode selector: To select between MMA, MIG, and Pulse MIG welding modes.Current selector: To select the welding current.Wire speed selector: To select the wire speed.Wire feed speed selector: To select the wire feed speed.Wire feed speed selector: To select the wire feed speed.<p>2. Safety Precautions</p><p>When using the machine, please follow the following safety precautions:</p><ul style="list-style-type: none">Wear appropriate protective gear, including a welding mask, gloves, and clothing.Do not touch the machine while it is running.Do not touch the welding wire while it is running.Do not touch the welding wire while it is running.<p>3. General Safety</p><p>When using the machine, please follow the following safety precautions:</p><ul style="list-style-type: none">Wear appropriate protective gear, including a welding mask, gloves, and clothing.Do not touch the machine while it is running.Do not touch the welding wire while it is running.Do not touch the welding wire while it is running.</div></div> <div><p>Reboot RBM2000P Operation Manual: Welding Machine Guide</p><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> |
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