

## Reboot RBM2500

# Reboot RBM2500 PRO Multiprocess Welder and WP-17FV TIG Torch Kit User Manual

Model: RBM2500 PRO

## 1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation, setup, and maintenance of your Reboot RBM2500 PRO Multiprocess Welder and WP-17FV TIG Torch Kit. The RBM2500 PRO is a versatile 8-in-1 welding system capable of Gas MIG, Flux Core, Lift TIG, Stick, and Spot welding, operating on both 120V and 240V power supplies. The included WP-17FV TIG torch enhances precision welding capabilities.

Please read this manual thoroughly before operating the equipment to ensure proper usage and to prevent injury or damage.

## 2. SAFETY INFORMATION

Welding operations involve significant risks. Always adhere to the following safety precautions:

- **Electric Shock:** Welding current can cause fatal electric shock. Ensure proper grounding and insulation. Never touch live electrical parts.
- **Fumes and Gases:** Welding fumes and gases can be hazardous to your health. Work in a well-ventilated area or use an approved respirator.
- **Arc Rays:** Arc rays can burn eyes and skin. Wear a welding helmet with appropriate shade lenses and protective clothing.
- **Fire and Explosion:** Welding sparks and hot metal can cause fires. Keep flammable materials away from the welding area.
- **Burns:** Hot metal and sparks can cause severe burns. Wear protective gloves and clothing.
- **Noise:** Excessive noise can damage hearing. Wear ear protection.

## 3. PRODUCT OVERVIEW AND COMPONENTS

The Reboot RBM2500 PRO is a comprehensive welding system designed for various applications. Below are the main components and accessories included.



**Figure 3.1:** Reboot RBM2500 PRO Multiprocess Welder with WP-17FV TIG Torch and various accessories including ground clamp, electrode holder, and consumables.



Figure 3.2: Reboot RBM2500 PRO Multiprocess Welder shown with the MIG gun and other essential accessories.

### 3.1 Main Welder Unit (RBM2500 PRO)

- **Control Panel:** Features a large LED display for accurate data and easy readability, along with control knobs for parameter adjustment.
- **Input Power:** Dual voltage 120V/240V compatibility.
- **Output:** Up to 250 Amps maximum output.
- **Welding Processes:** MIG (Gas/Flux Core), Lift TIG, Stick (MMA), Spot Welding.





Figure 3.3: The large LED display of the RBM2500 PRO, providing clear and accurate welding data and settings.

## 3.2 WP-17FV TIG Torch Kit

The included WP-17FV TIG torch is an air-cooled unit designed for precision TIG welding.

- **Length:** 13 feet.
- **Capacity:** 150 Amp.
- **Connector:** 10-25mm<sup>2</sup>.
- **Features:** Flexible head for multi-angle rotation, allowing easier handling in various positions.



**Figure 3.4:** Components of the WP-17FV TIG Torch Kit, including the torch body, collets, collet bodies, ceramic nozzles, and back caps.

# MULTI-ANGLE ROTATION



Figure 3.5: The WP-17FV TIG Torch head illustrating its multi-angle rotation feature for enhanced maneuverability.

## 4. SETUP

### 4.1 Power Connection

The RBM2500 PRO supports both 120V and 240V input power. The machine automatically detects the input voltage. Ensure the power source is appropriate for your welding task and meets the machine's requirements.

- Connect the power cord to a suitable grounded electrical outlet.
- Use the appropriate adapter if switching between 120V and 240V.

### 4.2 Gas Connection (for Gas MIG and TIG)

For Gas MIG and TIG welding, a shielding gas cylinder is required.

- Connect the gas hose from your regulator to the gas inlet on the rear of the welder.
- Ensure all connections are tight to prevent gas leaks.
- Set the gas flow rate according to the welding process and material thickness.

### 4.3 Torch/Gun Connection

Connect the appropriate torch or electrode holder for your chosen welding process.

- **MIG Gun:** Connect the MIG gun cable to the front panel's MIG connector. Ensure it is securely tightened.
- **WP-17FV TIG Torch:** Connect the power cable of the TIG torch to the designated TIG connector on the front panel. Connect the gas line from the torch to the gas outlet if applicable, or ensure the torch has a gas valve for manual control.
- **Stick Electrode Holder:** Connect the electrode holder cable to the positive (+) terminal and the ground clamp cable to the negative (-) terminal for DC Stick welding. Reverse polarity for certain electrodes as required.
- **Ground Clamp:** Always connect the ground clamp securely to the workpiece or welding table, ensuring good electrical contact.

### 4.4 Wire Installation (for MIG/Flux Core)

For MIG and Flux Core welding, install the appropriate welding wire spool.

- Open the wire feed compartment.
- Place the wire spool onto the spindle, ensuring it rotates freely.
- Feed the wire through the guide tube and into the drive rollers.
- Close the drive roller tension arm and adjust tension as needed.
- Press the wire feed button (often located on the MIG gun trigger or control panel) to feed the wire through the gun liner until it exits the contact tip.

## 5. OPERATING MODES

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The RBM2500 PRO offers multiple welding processes. Select the desired mode using the control panel.



# 8 IN 1 Multi-Process Welder



**Figure 5.1:** Visual representation of the 8-in-1 multi-process welding capabilities, including CO2 MIG, MMA, MAG, Spot Welding, Flux Core MIG, Spool Gun, Lift TIG, and Welded Aluminum.

## 5.1 MIG Welding (Gas MIG / Flux Core)

MIG welding is suitable for a wide range of materials and thicknesses. The RBM2500 PRO supports both gas-shielded MIG and gasless Flux Core welding.

- **Gas MIG:** Use solid wire with shielding gas (e.g., CO2 or Argon/CO2 mix for steel, Argon for aluminum).
- **Flux Core:** Use flux-cored wire without external shielding gas.
- **Settings:** Adjust wire feed speed and voltage according to the material, wire diameter, and desired penetration. The display provides guidance for common settings (Fe+CO2, Fe+MIX, Flux, Al+Ar).

## 5.2 Lift TIG Welding

Lift TIG provides precise control for high-quality welds, especially on thinner materials and for aluminum (with appropriate settings).



- **Torch:** Use the WP-17FV TIG torch with a tungsten electrode.
- **Gas:** Requires 100% Argon shielding gas.
- **Operation:** Touch the tungsten to the workpiece, then lift slightly to initiate the arc.
- **Settings:** Adjust amperage based on material thickness and type.

### 5.3 Stick Welding (MMA)

Stick welding is versatile and effective for outdoor use or on dirty/rusty materials.

- **Electrodes:** Use various types of coated electrodes (e.g., E6010, E6011, E7018).
- **Settings:** Adjust amperage according to the electrode type and diameter.

### 5.4 Spot Welding

The spot welding function allows for quick, localized welds, typically for joining two overlapping pieces of sheet metal.

- **Operation:** Position the MIG gun nozzle against the top sheet, press the trigger, and the machine will deliver a timed weld.
- **Settings:** Adjust spot weld time and power based on material thickness.

## 6. MAINTENANCE

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Regular maintenance ensures optimal performance and extends the lifespan of your welding equipment.

### 6.1 General Cleaning

- Periodically clean the exterior of the welder with a dry, soft cloth.
- Use compressed air to blow out dust and debris from inside the machine, especially around cooling vents. Ensure the machine is unplugged before doing so.

### 6.2 Consumables Replacement

Regularly inspect and replace worn consumables.

- **MIG:** Replace contact tips, nozzles, and liners as they wear out.
- **TIG:** Replace tungsten electrodes, collets, collet bodies, and ceramic nozzles as needed.
- **Stick:** Ensure electrode holder jaws are clean and grip electrodes firmly.

# SIZE OF ACCESSORIES

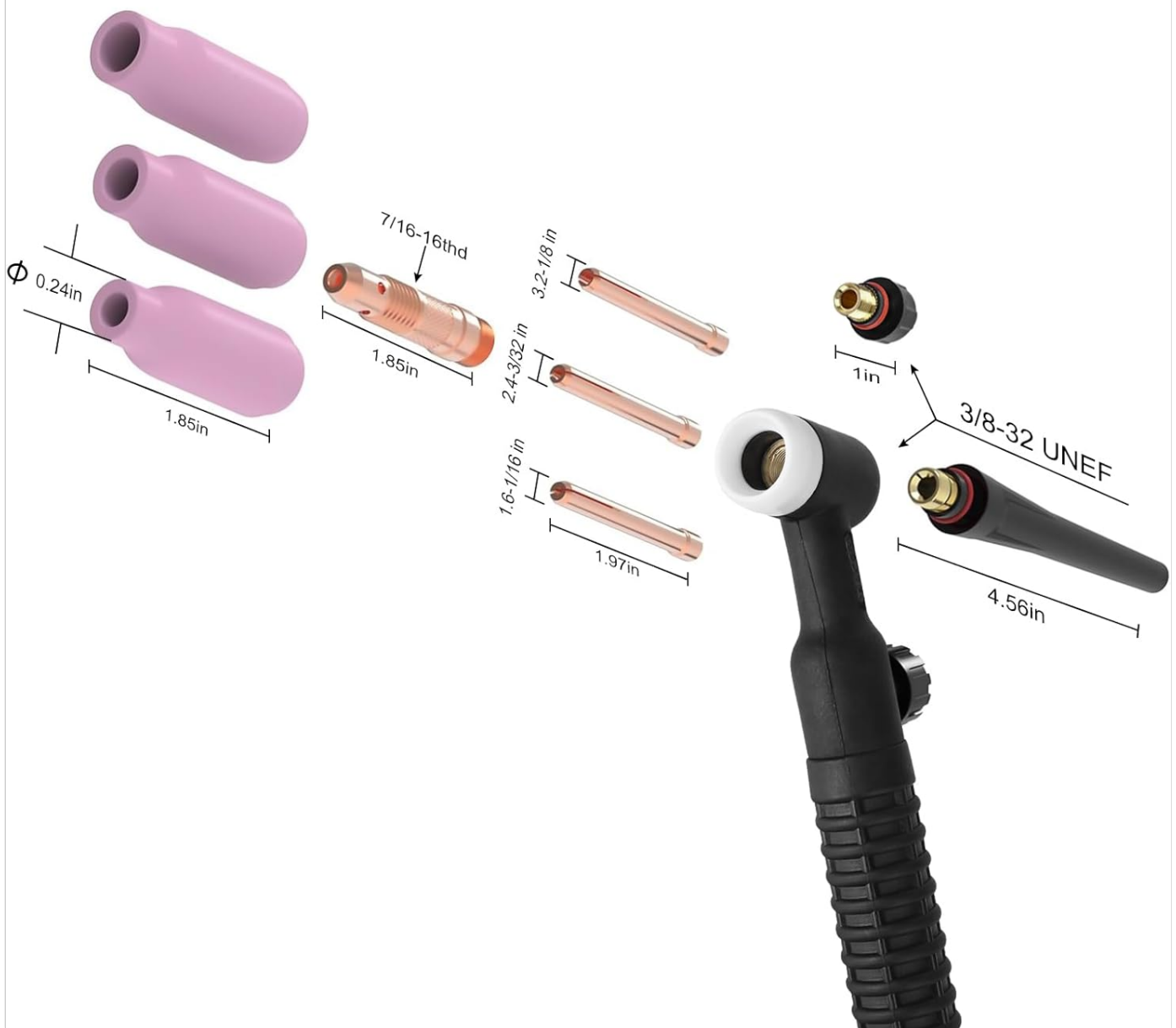


Figure 6.1: Illustration of various TIG torch accessories and their dimensions, useful for identifying and replacing consumables.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter during operation.

Problem	Possible Cause	Solution
No power to welder	Power cord unplugged, circuit breaker tripped, faulty power switch	Check power cord connection, reset circuit breaker, contact support if switch is faulty
No arc / Weak arc	Poor ground connection, incorrect settings, worn consumables, wrong polarity	Ensure ground clamp is secure, verify settings for process/material, replace consumables, check polarity

Problem	Possible Cause	Solution
MIG wire feeding issues	Incorrect drive roller tension, clogged liner, wrong drive roller size, tangled wire	Adjust drive roller tension, clean/replace liner, ensure correct drive roller for wire size, untangle wire spool
Poor weld quality	Incorrect settings, insufficient gas flow (MIG/TIG), contaminated material, improper technique	Adjust voltage/wire speed/amperage, check gas cylinder/flow rate, clean workpiece, practice welding technique

## 8. SPECIFICATIONS

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Technical specifications for the Reboot RBM2500 PRO Multiprocess Welder and WP-17FV TIG Torch.

Feature	Specification
Model	RBM2500 PRO
Input Voltage	120V / 240V (Dual Voltage)
Max Output Current	250 Amps
Welding Processes	Gas MIG, Flux Core, Lift TIG, Stick (MMA), Spot Welding
TIG Torch Model	WP-17FV (Air-cooled)
TIG Torch Length	13 ft
TIG Torch Capacity	150 Amps
TIG Torch Connector	10-25mm <sup>2</sup>
Max Material Thickness (with proper setup)	1/2 inch



# WP-17FV



Part No.(mm <sup>2</sup> )	E(mm)	D(mm)	Amp.Max(A)
10-25	10	9	200


Figure 8.1: Detailed specifications for the WP-17FV TIG Torch connector and dimensions.






## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact information provided with your product packaging or visit the official Reboot website. Keep your purchase receipt as proof of purchase for warranty claims.



### Related Documents - RBM2500

	<p><a href="#">Reboot RBM2100D Recommended Weld Settings Guide</a></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>
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<div><p>Operation Manual</p><p>Reboot RBM1600 welding machine manual for the detailed instructions of MMA, MIG, and LIFT TIG welding modes. This manual provides comprehensive information on the machine's features, setup, operation, and troubleshooting. It includes detailed instructions for each welding mode, technical specifications, and safety precautions. The manual is designed to be a valuable resource for both novice and experienced welders.</p><p>Part 1: Machine Introduction</p><ol style="list-style-type: none"><li>1. Power switch: The power switch is located on the front panel of the machine. It is used to turn the machine on and off.</li><li>2. Voltage selector: The voltage selector is located on the front panel of the machine. It is used to select the desired voltage for welding.</li><li>3. Output selector: The output selector is located on the front panel of the machine. It is used to select the desired output for welding.</li><li>4. Gas selector: The gas selector is located on the front panel of the machine. It is used to select the desired gas for welding.</li><li>5. Gas flow rate selector: The gas flow rate selector is located on the front panel of the machine. It is used to select the desired gas flow rate for welding.</li><li>6. Gas pressure selector: The gas pressure selector is located on the front panel of the machine. It is used to select the desired gas pressure for welding.</li></ol></div>	<p><a href="#">Reboot RBM1600 Operation Manual: Your Guide to MMA, MIG, and LIFT TIG Welding</a></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>
<div><p>Operation Manual</p><p>Reboot RBA1400 and RBA1400D welding machine manual for the detailed instructions of MMA, MIG, and LIFT TIG welding modes. This manual provides comprehensive information on the machine's features, setup, operation, and troubleshooting. It includes detailed instructions for each welding mode, technical specifications, and safety precautions. The manual is designed to be a valuable resource for both novice and experienced welders.</p><p>Part 1: Machine Introduction</p><ol style="list-style-type: none"><li>1. Power switch: The power switch is located on the front panel of the machine. It is used to turn the machine on and off.</li><li>2. Voltage selector: The voltage selector is located on the front panel of the machine. It is used to select the desired voltage for welding.</li><li>3. Output selector: The output selector is located on the front panel of the machine. It is used to select the desired output for welding.</li><li>4. Gas selector: The gas selector is located on the front panel of the machine. It is used to select the desired gas for welding.</li><li>5. Gas flow rate selector: The gas flow rate selector is located on the front panel of the machine. It is used to select the desired gas flow rate for welding.</li><li>6. Gas pressure selector: The gas pressure selector is located on the front panel of the machine. It is used to select the desired gas pressure for welding.</li></ol></div>	<p><a href="#">Reboot RBA1400 &amp; RBA1400D Welding Machine Operation Manual</a></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>
<div><p>Operation Manual</p><p>Reboot RBM1300 welding machine manual for the detailed instructions of MMA, MIG, and LIFT TIG welding modes. This manual provides comprehensive information on the machine's features, setup, operation, and troubleshooting. It includes detailed instructions for each welding mode, technical specifications, and safety precautions. The manual is designed to be a valuable resource for both novice and experienced welders.</p><p>Part 1: Machine Introduction</p><ol style="list-style-type: none"><li>1. Power switch: The power switch is located on the front panel of the machine. It is used to turn the machine on and off.</li><li>2. Voltage selector: The voltage selector is located on the front panel of the machine. It is used to select the desired voltage for welding.</li><li>3. Output selector: The output selector is located on the front panel of the machine. It is used to select the desired output for welding.</li><li>4. Gas selector: The gas selector is located on the front panel of the machine. It is used to select the desired gas for welding.</li><li>5. Gas flow rate selector: The gas flow rate selector is located on the front panel of the machine. It is used to select the desired gas flow rate for welding.</li><li>6. Gas pressure selector: The gas pressure selector is located on the front panel of the machine. It is used to select the desired gas pressure for welding.</li></ol></div>	<p><a href="#">Reboot RBM1300 Welding Machine Operation Manual</a></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>
<div><p>Operation Manual</p><p>Reboot RBM1300 welding machine manual for the detailed instructions of MMA, MIG, and LIFT TIG welding modes. This manual provides comprehensive information on the machine's features, setup, operation, and troubleshooting. It includes detailed instructions for each welding mode, technical specifications, and safety precautions. The manual is designed to be a valuable resource for both novice and experienced welders.</p><p>Part 1: Machine Introduction</p><ol style="list-style-type: none"><li>1. Power switch: The power switch is located on the front panel of the machine. It is used to turn the machine on and off.</li><li>2. Voltage selector: The voltage selector is located on the front panel of the machine. It is used to select the desired voltage for welding.</li><li>3. Output selector: The output selector is located on the front panel of the machine. It is used to select the desired output for welding.</li><li>4. Gas selector: The gas selector is located on the front panel of the machine. It is used to select the desired gas for welding.</li><li>5. Gas flow rate selector: The gas flow rate selector is located on the front panel of the machine. It is used to select the desired gas flow rate for welding.</li><li>6. Gas pressure selector: The gas pressure selector is located on the front panel of the machine. It is used to select the desired gas pressure for welding.</li></ol></div>	<p><a href="#">Reboot RBM1300 Operation Manual: Your Guide to Advanced Welding</a></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><p>Operation Manual</p><p>Reboot RBM2000P welding machine manual for the detailed instructions of MMA, MIG, and Pulse MIG welding modes. This manual provides comprehensive information on the machine's features, setup, operation, and troubleshooting. It includes detailed instructions for each welding mode, technical specifications, and safety precautions. The manual is designed to be a valuable resource for both novice and experienced welders.</p><p>Part 1: Machine Introduction</p><ol style="list-style-type: none"><li>1. Power switch: The power switch is located on the front panel of the machine. It is used to turn the machine on and off.</li><li>2. Voltage selector: The voltage selector is located on the front panel of the machine. It is used to select the desired voltage for welding.</li><li>3. Output selector: The output selector is located on the front panel of the machine. It is used to select the desired output for welding.</li><li>4. Gas selector: The gas selector is located on the front panel of the machine. It is used to select the desired gas for welding.</li><li>5. Gas flow rate selector: The gas flow rate selector is located on the front panel of the machine. It is used to select the desired gas flow rate for welding.</li><li>6. Gas pressure selector: The gas pressure selector is located on the front panel of the machine. It is used to select the desired gas pressure for welding.</li></ol></div>	<p><a href="#">Reboot RBM2000P Operation Manual: Welding Machine Guide</a></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>