

Reboot RBC2000 / RBC6000D

Reboot 60A Plasma Cutter and RBC2000 5-in-1 Multi-process Welder User Manual

Models: RBC2000 (Welder), RBC6000D (Plasma Cutter)

Introduction	Safety Information	Product Overview	Setup	Operation	Maintenance
	Troubleshooting	Specifications	Support & Warranty		

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your Reboot 60A Plasma Cutter and RBC2000 5-in-1 Multi-process Welder. This versatile machine combines Gas/Solid Wire MIG (GMAW), Gasless Flux Core MIG (FCAW), Stick (MMA), Spot Welding, and Lift TIG (torch not included) capabilities with a powerful 60A plasma cutter. Please read this manual thoroughly before using the equipment to ensure proper function and safety.

2. SAFETY INFORMATION

- Always prioritize safety when operating welding and plasma cutting equipment. Failure to follow safety guidelines can result in serious injury or death.
- **Electric Shock:** Welding and plasma cutting can cause electric shock. Ensure proper grounding, wear dry gloves, and inspect cables for damage. Do not work in wet conditions.
 - **Fumes and Gases:** Welding and cutting produce fumes and gases that can be hazardous to health. Work in a well-ventilated area or use a fume extractor.
 - **Arc Rays:** Arc rays can burn eyes and skin. Always wear a welding helmet with appropriate shade, safety glasses, and protective clothing.
 - **Fire and Explosion:** Sparks, hot slag, and hot metal can cause fires. Keep flammable materials away from the work area. Have a fire extinguisher readily available.
 - **Hot Parts:** Welded and cut parts are hot. Allow them to cool before handling or wear appropriate heat-resistant gloves.
 - **Noise:** High noise levels can damage hearing. Wear hearing protection.
 - **Moving Parts:** Keep hands and body clear of moving parts, such as wire feed mechanisms.
 - **Compressed Gas Cylinders:** Handle gas cylinders with care. Secure them properly and use appropriate regulators.

Refer to all applicable safety standards and regulations in your region.

3. PRODUCT OVERVIEW

The Reboot 5-in-1 Multi-process Welder (RBC2000) and 60A Plasma Cutter (RBC6000D) is a versatile machine designed for various metalworking tasks. It features a large digital display for accurate data and synergic control for ease of use.



Figure 3.1: Overview of the Reboot 5-in-1 Welder and Plasma Cutter with various accessories, including MIG torch, ground clamp, plasma torch, and consumables.

3.1. Included Accessories (Plasma Cutter RBC6000D)

ACCESSORIES

- 1 Extended Tips
- 2 Electrode
- 3 Hose Clamp
- 4 Power Adapter
- 5 Rack
- 6 Air Filter Regulator
- 7 Hose Connector
- 8 Plasma Torch 3M
- 9 Earth Clamp
- 10 User Manual
- 11 Air Hose
- 12 Gas-Pressure Meter
- 13 Teflon Tape



Figure 3.2: This image displays the accessories typically included with the Reboot RBC6000D Plasma Cutter. These include Extended Tips, Electrodes, Hose Clamp, Power Adapter, Rack, Air Filter Regulator, Hose Connector, Plasma Torch 3M, Earth Clamp, User Manual, Air Hose, Gas-Pressure Meter, and Teflon Tape.

3.2. Panel Introduction (Plasma Cutter RBC6000D)

Panel Introduction



Figure 3.3: The front panel of the RBC6000D Plasma Cutter features an Overheat Indicator, Power Indicator, Digital Display, Current Adjust knob, PT-31 Torch Connector, Torch Switch Socket, and Earth Clamp Connector. The rear panel includes the Turn on/off Switch, Pressure Control Knob, Air Input Connector, Pressure Gauge, Power Cable, Air Filter Regulator, and a Powerful Fan.

3.3. Quality Components

QUALITY IS GUARANTEED

1. Cable

All copper inner, high efficiency, good conductive, save energy, long service life, visible quality.

2. Gas hose

Strong pressure resistance, good flexibility and firmness, not easy to crack, blistering



Figure 3.4: The machine utilizes high-quality components such as all-copper inner cables for high efficiency and good conductivity, ensuring a long service life. The gas hose is designed for strong pressure resistance, good flexibility, and firmness, preventing cracks or blistering.

4. SETUP

Before operating the machine, ensure all connections are secure and the work area is prepared according to safety guidelines.

4.1. Power Connection

- The machine supports dual voltage 120V/240V. It automatically detects the input voltage.
- Connect the power cable to a suitable power outlet. Ensure the circuit can handle the required amperage for welding or cutting.

4.2. Gas/Air Connection

- **For Plasma Cutting:** Connect the air hose from your air compressor to the Air Input Connector on the rear panel.

Ensure the air filter regulator is properly installed. Set the air pressure according to the PSI guidance (70-75 PSI / 0.48-0.52MPa).

- **For MIG Welding (GMAW):** Connect the shielding gas cylinder (e.g., Argon/CO2 mix) to the gas inlet on the machine using a suitable regulator and hose.

4.3. Torch and Ground Clamp Connection

- **For Welding (MIG/Stick/Lift TIG):** Connect the appropriate torch (MIG torch, electrode holder for Stick, or TIG torch for Lift TIG) to the designated connectors. Connect the Earth Clamp to the work piece, ensuring good electrical contact.
- **For Plasma Cutting:** Connect the plasma torch to the PT-31 Torch Connector and the Earth Clamp to the work piece.

4.4. Wire Feed Setup (for MIG Welding)

- Open the wire feed compartment.
- Install the appropriate wire spool (solid wire or flux core wire) onto the spindle.
- Thread the wire through the drive rollers and into the torch liner. Ensure the drive rollers match the wire size (.030"/.035"/.040").
- Close the compartment and adjust the tension on the drive rollers.

5. OPERATION

This section details the operation of the various welding and cutting modes.

5.1. Synergic Control MIG (RBC2000 Welder)

SYNERGIC CONTROL, EXCLUSIVE DESIGN

new year, new welder



Figure 5.1: The large digital display provides accurate data and simplifies setup. In Synergic Control MIG mode, you can easily set welding parameters by selecting the wire size. The machine automatically adjusts voltage and wire feed speed for optimal results, making it suitable for both beginners and experienced welders.

- Select the MIG mode on the control panel.
- Choose the appropriate wire type (Gas/Solid Wire or Gasless Flux Core) and wire diameter (.030"/.035"/.040").
- The machine will suggest optimal settings. Fine-tune if necessary using the control knobs.
- Begin welding, maintaining proper technique and safety precautions.

5.2. Stick Welding (MMA)

- Connect the electrode holder and ground clamp.
- Select MMA mode.
- Adjust the amperage based on the electrode type and thickness of the material.
- Strike an arc and maintain a consistent arc length and travel speed.

5.3. Lift TIG Welding

- Connect a compatible Lift TIG torch (not included) and ground clamp.
- Select Lift TIG mode.
- Adjust the amperage.
- Initiate the arc by gently touching the tungsten electrode to the workpiece and lifting it slightly.

5.4. Plasma Cutting (RBC6000D Plasma Cutter)



Figure 5.2: The plasma cutter features High Frequency (HF) ignition, IGBT Technology, Dual Voltage (120V/240V), Large Capacitance, and Strong Heat Dissipation for efficient and clean cuts.

- Ensure the air compressor is connected and supplying the correct PSI (70-75 PSI).
- Select Plasma Cutting mode.
- Adjust the cutting amperage based on the material thickness. The machine handles 1/2" (12mm) steel at 120V/35A and 5/8" (16mm) at 240V/60A.
- Position the plasma torch nozzle close to the workpiece and activate the trigger to initiate the arc.
- Maintain a steady travel speed for a clean cut.



Figure 5.3: The plasma cutter is capable of cutting various materials including Stainless Steel, Mild Steel, Carbon Steel, Copper Metal, Aluminum Alloy, and Iron Metal.

6. MAINTENANCE

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

- **Cleaning:** Regularly clean the machine's exterior and internal components (if accessible and safe to do so after disconnecting power) to prevent dust and debris buildup.
- **Consumable Replacement:** Inspect and replace MIG contact tips, nozzles, plasma electrodes, and plasma nozzles as they wear out. Worn consumables can negatively affect performance.
- **Air Filter Regulator:** Periodically check and drain any accumulated moisture from the air filter regulator for the plasma cutter. Replace the filter element if it becomes clogged.
- **Cable Inspection:** Inspect all cables (power, ground, torch) for cuts, abrasions, or loose connections. Replace damaged cables immediately.
- **Wire Feed System:** Clean the wire feed rollers and liner to ensure smooth wire feeding.

7. TROUBLESHOOTING

This section addresses common issues you might encounter during operation.

Problem	Possible Cause	Solution
No power to machine	Power cable disconnected, circuit breaker tripped, machine switch off	Check power cable, reset circuit breaker, turn on machine switch
No arc (Welding)	Poor ground connection, wrong settings, worn consumables, faulty torch	Ensure good ground, verify settings, replace consumables, inspect torch
No arc (Plasma Cutting)	Insufficient air pressure, worn plasma consumables, poor ground, faulty torch	Check air pressure (70-75 PSI), replace plasma consumables, ensure good ground, inspect torch
Poor weld quality / cut quality	Incorrect settings, improper technique, contaminated material, worn consumables	Adjust settings, refine technique, clean material, replace consumables
Overheat indicator active	Exceeded duty cycle, poor ventilation	Allow machine to cool down, ensure adequate ventilation around the unit

If you encounter issues not listed here or require further assistance, please contact customer support.

8. SPECIFICATIONS

Feature	Detail
Product Type	5-in-1 Multi-process Welder & Plasma Cutter
Welding Processes	MIG (GMAW), Flux Core (FCAW), Stick (MMA), Spot, Lift TIG (torch not included)
Plasma Cutting Amperage	10-35A (120V), 30-60A (240V)
Plasma Cutting Thickness	1/2" (12mm) steel @ 120V/35A, 5/8" (16mm) steel @ 240V/60A
Input Voltage	Dual Voltage 120V/240V (Auto-detection)
Plasma Air Pressure	70-75 PSI (0.48-0.52MPa)
MIG Wire Compatibility	.030"/.035"/.040" solid wire, .030"/.035"/.040" flux core wire
Aluminum Welding	Not supported
Display	Large Digital Display
Technology	IGBT, High Frequency (Plasma)

9. SUPPORT & WARRANTY

Reboot is committed to customer satisfaction. For any questions, troubleshooting assistance, or warranty claims, please contact our US-based service center.

- **Customer Assistance:** Enjoy 24/7 customer assistance.

- **Troubleshooting:** Same-day troubleshooting support is available.
- **Repair Options:** Reliable repair options are provided.
- **Warranty:** Refer to your purchase documentation for specific warranty terms.

Your satisfaction is our commitment.

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