

Reboot RBC-6000LPRO-42EU

Reboot RBC6000L 60A Non-Touch Pilot Arc Plasma Cutter User Manual

Model: RBC-6000LPRO-42EU

1. INTRODUCTION

Thank you for choosing the Reboot RBC6000L 60A Non-Touch Pilot Arc Plasma Cutter. This manual provides essential information for the safe and efficient operation, setup, and maintenance of your plasma cutting machine. Please read this manual thoroughly before operating the equipment to ensure proper use and to prevent injury or damage.

The RBC6000L is designed for cutting various metals, including stainless steel, alloy steel, mild steel, copper, and aluminum. Its non-touch pilot arc technology allows for cutting through rough, painted, and rusty surfaces with minimal slag, extending consumable lifespan and improving cut quality.

2. SAFETY INFORMATION

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

- **Electric Shock:** Can kill. Ensure proper grounding. Do not touch live electrical parts. Wear dry insulating gloves and protective clothing.
- **Fumes and Gases:** Can be hazardous to your health. Keep your head out of the fumes. Use ventilation or exhaust to remove fumes from the breathing zone.
- **Arc Rays:** Can burn eyes and skin. Wear a welding helmet with a proper shade number to protect your face and eyes. Wear appropriate protective clothing.
- **Fire and Explosion:** Hot metal and sparks can cause fires. Keep flammable materials away from the work area. Have a fire extinguisher readily available.
- **Compressed Air:** Use only clean, dry, oil-free compressed air. Ensure air pressure is within specified limits.
- **Moving Parts:** Keep hands, hair, and loose clothing away from moving parts.

3. PRODUCT OVERVIEW AND COMPONENTS

The Reboot RBC6000L plasma cutter is a compact and powerful unit. Familiarize yourself with its main components and included accessories.



Figure 3.1: Reboot RBC6000L Plasma Cutter and Accessories

This image displays the main unit along with the plasma torch, ground clamp, air filter regulator, air hose, and various consumables (nozzles, electrodes, ceramic cups).



Figure 3.2: RBC6000L Component Diagram

Key components are labeled as follows:

1. Pressure Adjust Knob
2. Turn On/Off Switch
3. Power Cable
4. Hose Interface
5. Air Filter Regulator (Install by removing red cap)
6. Air Regulator
7. High Speed Fan

Front Panel Indicators:

- **A:** Current Adjust Knob
- **B:** Digital Display (shows air pressure, voltage, current)
- **C:** 2T/4T / Air Testing Mode Selection
- **D:** Post Air / Pilot Arc Time Adjustment
- **E:** Cutting Torch Interface
- **F:** Torch Switch Socket
- **G:** "+" Output Terminal

4. SETUP INSTRUCTIONS

Follow these steps to set up your plasma cutter for operation:

1. **Unpacking:** Carefully remove the plasma cutter and all accessories from the packaging. Inspect for any shipping damage.
2. **Air Filter Regulator Installation:** Locate the air filter regulator. Remove the red protective cap from the hose interface (4) on the back of the unit. Connect the air filter regulator to this interface. Ensure it is securely tightened to prevent air leaks.
3. **Air Supply Connection:** Connect your compressed air supply hose to the inlet of the air filter regulator. Ensure your air compressor provides clean, dry, oil-free air.
4. **Ground Clamp Connection:** Connect the ground clamp cable to the "-" terminal on the front panel. Securely attach the ground clamp to the workpiece or work table, ensuring good electrical contact.
5. **Plasma Torch Connection:** Connect the plasma torch cable to the cutting torch interface (E) and the torch switch plug to the torch switch socket (F) on the front panel.
6. **Power Connection:** Ensure the unit's power switch (2) is in the OFF position. Connect the power cable

(3) to a suitable 240V power outlet. The unit comes with a 240V EU standard plug.

ACCESSORIES



Figure 4.1: Included Accessories

The package includes the plasma cutter, plasma torch, ground clamp, air filter regulator, air hose, and various consumables for immediate use.

5. OPERATING INSTRUCTIONS

Before operating, ensure all safety precautions are understood and followed.

5.1 Power On and Initial Settings

1. Turn the power switch (2) to the ON position. The digital display (B) will illuminate.
2. Adjust the air pressure using the pressure adjust knob (1) and monitor the reading on the digital display. Ensure the air pressure is within the appropriate range for your cutting task.
3. Use the current adjust knob (A) to set the desired cutting amperage. Refer to the cutting chart (if provided separately) for recommended settings based on material type and thickness.

4. Select 2T (Two-Touch) or 4T (Four-Touch) mode using the mode selection button (C). 2T requires holding the torch trigger, while 4T allows for continuous cutting after a single trigger press.
5. Adjust Post Air and Pilot Arc time using the adjustment buttons (D) if necessary.



Figure 5.1: Large Digital Display

The large digital screen centrally displays parameters such as air pressure (Psi), voltage, and current (A), making it easier to monitor and adjust operations.

5.2 Cutting Operation

1. Wear all necessary Personal Protective Equipment (PPE), including a welding helmet, gloves, and protective clothing.
2. Position the workpiece on a non-flammable surface, ensuring good ground clamp contact.
3. Hold the plasma torch firmly. For non-touch pilot arc, position the torch nozzle slightly above the workpiece (typically 1/16" to 1/8" gap).
4. Press the torch trigger. The pilot arc will initiate.
5. Slowly move the torch across the cutting line at a consistent speed. Observe the molten metal and sparks to ensure a clean cut.

6. Release the trigger to stop cutting. The post-air flow will continue for a set time to cool the torch.



Figure 5.2: Plasma Cutter in Action

This image illustrates the plasma cutter in operation, demonstrating the non-touch pilot arc cutting through a metal plate.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your plasma cutter.

- **Consumables Inspection:** Regularly inspect the plasma torch consumables (nozzle, electrode, swirl ring, shield cup) for wear. Replace them when they show signs of degradation to maintain cut quality.
- **Air Filter Regulator:** Periodically drain any accumulated moisture from the air filter regulator bowl. Clean or replace the filter element as needed to ensure a clean air supply.
- **Cleaning:** Keep the machine clean and free from dust and metal particles. Use compressed air to blow out internal components if necessary, ensuring the unit is unplugged.

- **Cable Inspection:** Check all cables (power, torch, ground) for damage, cuts, or frayed insulation. Replace damaged cables immediately.
- **Fan Vents:** Ensure the cooling fan vents are clear of obstructions to allow for proper airflow and prevent overheating.

7. TROUBLESHOOTING

The RBC6000L features an upgraded digital display that can show error codes to assist in troubleshooting.

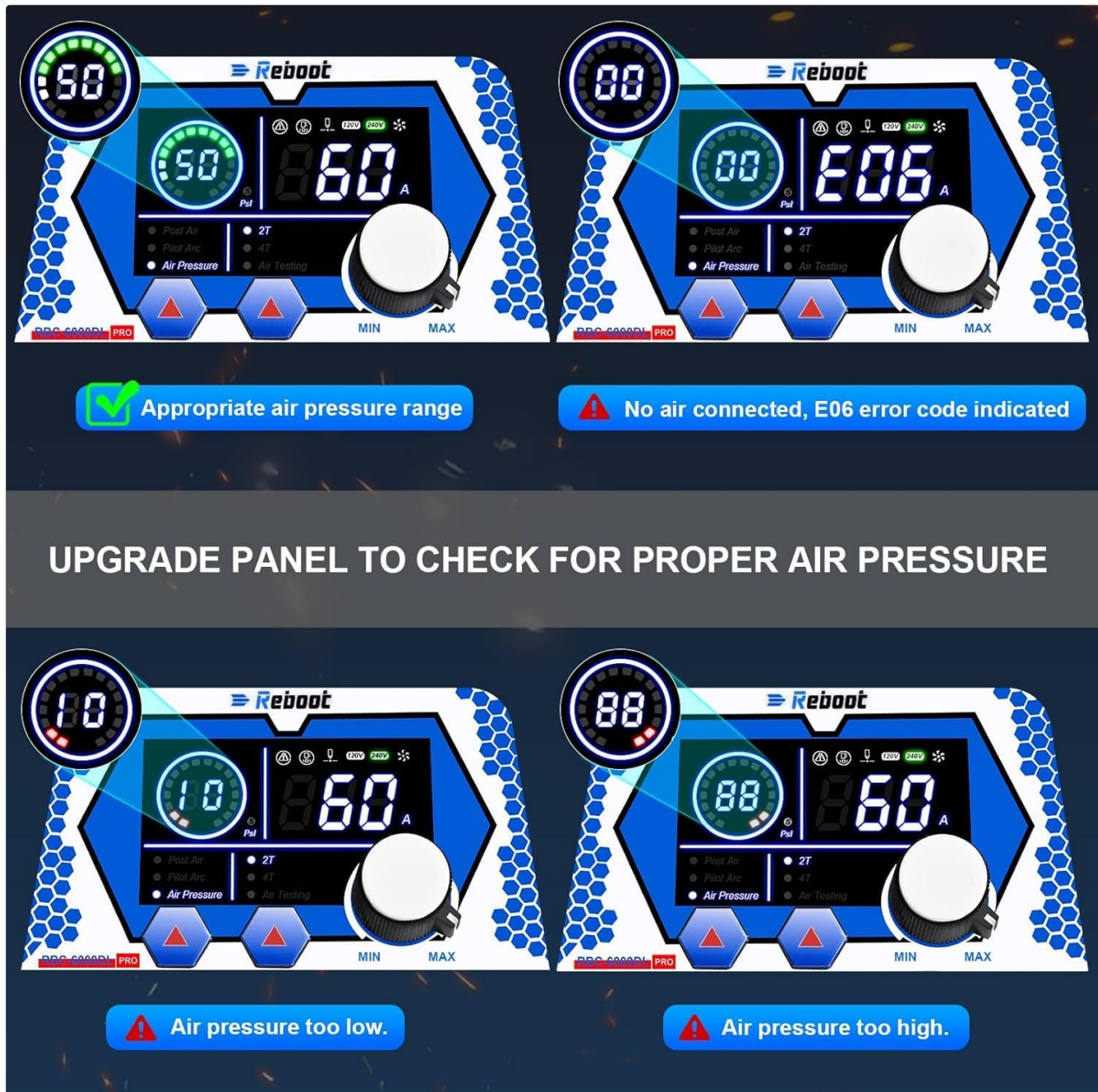


Figure 7.1: Air Pressure Display and Error Codes

This image shows various air pressure states and an error code E06, indicating a problem.

- **No Arc / Arc Stops:**
 - Check ground clamp connection.
 - Inspect torch consumables for wear; replace if necessary.

- Verify air pressure is within the correct range (see digital display).
- Ensure power supply is stable and sufficient.
- **Error Code E06:** Indicates no air connected or insufficient air pressure. Check air supply, hose connections, and air filter regulator.
- **Poor Cut Quality:**
 - Consumables may be worn; replace them.
 - Cutting speed too fast or too slow. Adjust speed.
 - Incorrect amperage setting for material thickness. Adjust current.
 - Air pressure too low or too high. Adjust air regulator.
- **Overheating:** The machine has thermal overload protection. If it stops, allow it to cool down. Ensure fan vents are clear. Reduce duty cycle.

If problems persist after following these steps, contact customer support.

8. SPECIFICATIONS

Specification	Value
Manufacturer	Reboot
Model Number	RBC-6000LPRO-42EU
Dimensions (Package)	39.29 x 27.6 x 20.8 cm
Weight (Package)	6.88 kilograms
Power Type	AC/DC
Voltage	240 Volts
Output Current (240V)	10-60A DC
Ideal Clean Cut (240V)	5/8" (approx. 15.8mm)
Maximum Severance Cut (240V)	4/5" (approx. 20mm)
Technology	IGBT Inverter, Non-Touch Pilot Arc
Included Components	Plasma cutting kit / consumables

9. WARRANTY AND SUPPORT





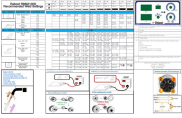
Reboot Brand is dedicated to providing reliable products and services. For any questions, technical assistance, or support regarding your RBC6000L plasma cutter, please contact Reboot customer service. Refer to your purchase documentation for specific warranty terms and contact information.

Reboot has over 12 years of experience in manufacturing welding and cutting equipment, ensuring

professional support for our customers.

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Related Documents - RBC-6000LPRO-42EU

<p>Operation Manual</p>  <p>RBC-5000DL Cutting Machine</p>	<p>Reboot RBC-5000DL Cutting Machine Operation Manual</p> <p>This operation manual provides detailed instructions for the Reboot RBC-5000DL Cutting Machine, covering its features, installation, operation, maintenance, and troubleshooting. It includes technical parameters, safety precautions, and warranty information.</p>
<p>Operation Manual</p>  <p>1. Power Switch 2. Gas Valve 3. Gas Flowmeter 4. Gas Pressure Gauge 5. Gas Inlet Valve 6. Gas Outlet Valve 7. Gas Filter 8. Gas Hose 9. Gas Nozzle 10. Gas Torch</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>Operation Manual</p>  <p>1. Power Switch 2. Gas Valve 3. Gas Flowmeter 4. Gas Pressure Gauge 5. Gas Inlet Valve 6. Gas Outlet Valve 7. Gas Filter 8. Gas Hose 9. Gas Nozzle 10. Gas Torch</p>	<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>Operation Manual</p>  <p>1. Power Switch 2. Gas Valve 3. Gas Flowmeter 4. Gas Pressure Gauge 5. Gas Inlet Valve 6. Gas Outlet Valve 7. Gas Filter 8. Gas Hose 9. Gas Nozzle 10. Gas Torch</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 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>

Hybrid HPC/CCD sensing technology adapts the robust pulse-width modulation (PWM) technology and hardware gate logic from the PRFT power module, which can straightforwardly transform to multi-frequency in order to explore the traditional frequency bandwidth with the multi-frequency bandwidth. It also includes both periodic waveform, up-sampling, low reconstruction rate, etc. It is also intelligent and capable to adapt multi-frequency sensing methods with UWB, SAR, MS, RADAR and so on. It has the characteristics of strong sensing performance and flexible gate logic control. It can be used to detect gas and liquid conditions, and the sensing effect is excellent. It is highly practical for sensing technology. It also can flexibly be frequency in sensing and can quickly gate control.

Part 1: Machine introduction



1. *Find out the gas rate*
The digital indicator is useful in displaying the actual output current of the power source.
2. *For an accurate digital, fix the error by compensating time*
According to the digital indicator's characteristics, the digital indicator adjusts the digital value and indicates to reduce the error of the measuring instrument.
3. *Remember, the formation of digital understanding is correct*
Remembering the digital indicator's characteristics is correct.
4. *Adjusting the gas rate*
Remembering the digital indicator's characteristics is correct.
5. *Check the error diameter and the shape of gas welding and gas-cutting welding*
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