## Reboot RBC6000DL-PRO

# Reboot Plasma Cutter RBC6000DL PRO User Manual

Model: RBC6000DL PRO

## 1. Introduction

This manual provides comprehensive instructions for the safe and efficient operation, maintenance, and troubleshooting of your Reboot Plasma Cutter RBC6000DL PRO. Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent injury or damage.

## 2. Safety Information

Plasma cutting involves high voltage, high temperatures, and intense light. Always adhere to the following safety precautions:

- Wear appropriate personal protective equipment (PPE), including a welding helmet with a suitable shade, flame-resistant clothing, gloves, and safety shoes.
- Ensure proper ventilation to avoid inhaling fumes.
- Do not operate in wet conditions or near flammable materials.
- Always disconnect power before performing maintenance or changing consumables.
- Keep children and unauthorized personnel away from the operating area.
- Ensure the machine is properly grounded.

## 3. Package Contents

Verify that all items listed below are included in your package:

- Reboot Plasma Cutter RBC6000DL PRO Unit
- AG60 Plasma Cutting Torch
- Ground Clamp
- Air Hose and Air Filter Regulator
- Free 10pcs of Consumables
- Instruction Manual (this document)


Figure 3.1: Included accessories with the Reboot Plasma Cutter RBC6000DL PRO.

## 4. Product Overview

The Reboot Plasma Cutter RBC6000DL PRO is a 60 Amp non-touch pilot arc plasma cutter machine designed for clean and severance cuts on various metals. It features dual voltage capability (120V/240V) and an upgraded digital display.


Figure 4.1: Front view of the Reboot Plasma Cutter RBC6000DL PRO.

## 4.1. Control Panel and Display

The large digital LED screen provides real-time information on air pressure, pilot arc status, post-air settings, and current. It also features an error code system for easy troubleshooting.


Figure 4.2: Detailed view of the LED digital display.

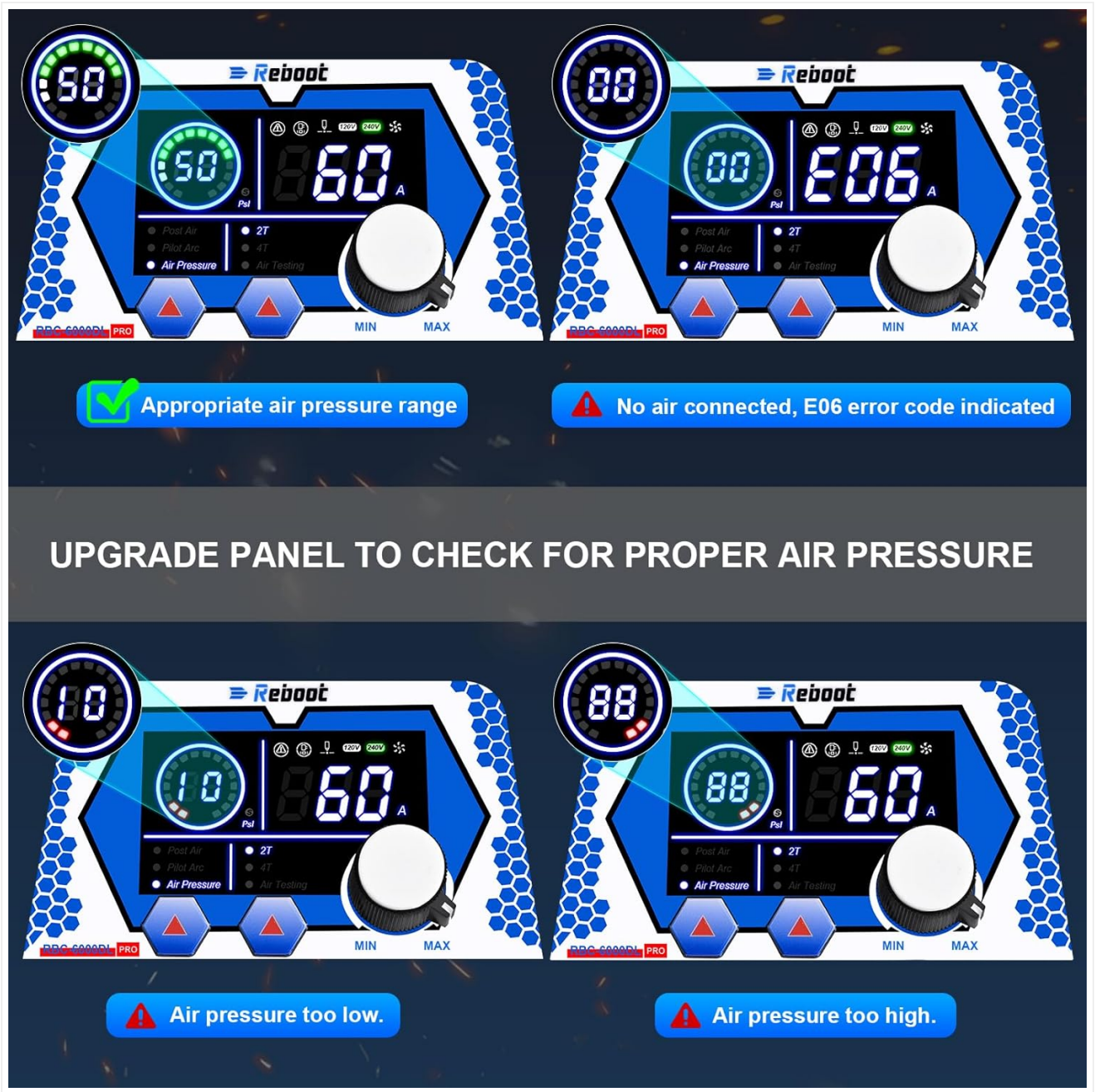



Figure 4.3: Air pressure display indicators and error codes.

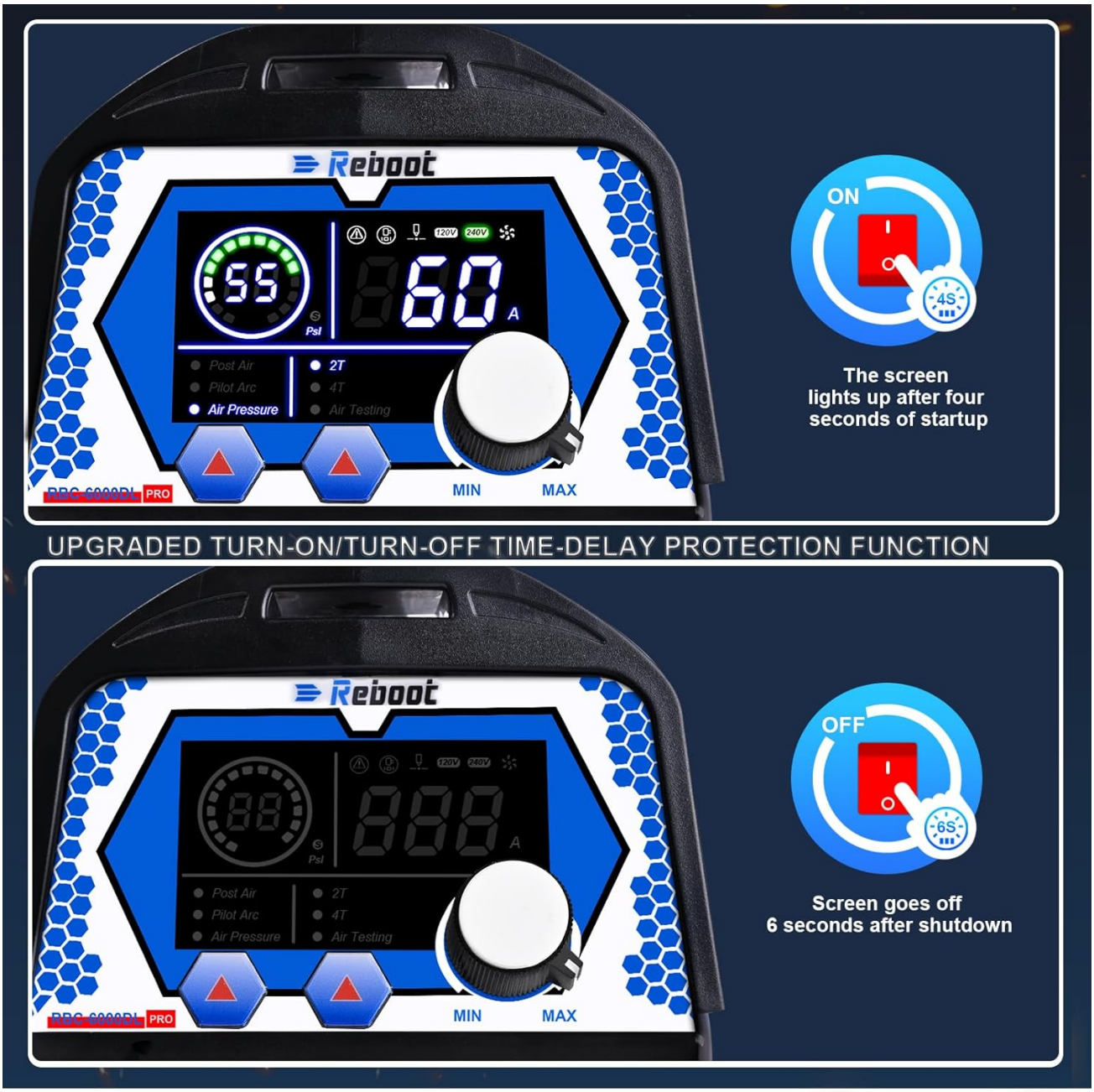



Figure 4.4: Upgraded turn-on/turn-off time-delay protection function.

## 4.2. Components and Connections


Figure 4.5: Key components and their functions.

1. **Pressure Adjust Knob:** Adjusts the air pressure.
2. **Turn On/Off:** Main power switch.
3. **Power Cable:** Connects to the power supply.
4. **Hose Interface:** Connection point for the air hose.
5. **Air Regulator:** Regulates incoming air pressure.
6. **High Speed Fan:** Provides cooling for the internal components.
7. **Current Adjust:** Knob to set the cutting current (Amps).
8. **Digital Display:** Shows various operational parameters.
9. **2T/4T/Air Testing:** Buttons for selecting trigger modes and air testing.
10. **Post Air/Pilot Arc Adjustment:** Buttons for adjusting post-air flow and pilot arc settings.
11. **Cutting Torch Interface:** Connection for the plasma cutting torch.
12. **Torch Switch Socket:** Connection for the torch trigger.
13. **"+Output":** Positive output terminal.
14. **Pilot Arc Knob:** Adjusts pilot arc intensity.

## 5. Setup

Follow these steps for initial setup:

1. **Power Connection:** Connect the power cable to a suitable 120V or 240V power outlet. Ensure the circuit breaker rating is appropriate (50A at 120V, 30A at 240V).
2. **Air Compressor Connection:** Connect an air compressor (minimum 90 PSI, 60L/min, 750W or more) to the air filter regulator and then to the machine's air hose interface. The machine has a built-in air pressure sensor, so an external gauge is not required.
3. **Torch Connection:** Connect the AG60 plasma cutting torch to the cutting torch interface and the torch switch socket.
4. **Ground Clamp Connection:** Attach the ground clamp to the workpiece or work table, ensuring a clean, secure connection for proper electrical contact.


Figure 5.1: Air filter regulator and built-in air pressure sensing system.

## 6. Operating Instructions

This section details the steps for operating your plasma cutter.

### 6.1. Powering On and Initial Checks

1. Turn on the main power switch. The screen lights up after approximately four seconds.
2. Observe the digital display for air pressure readings. The green light indicates the normal air pressure range. Adjust the air pressure using the regulator if the red light indicates too high or too low pressure.
3. Perform an air test by pressing the "Air Testing" button to ensure proper air flow through the torch.

Your browser does not support the video tag.

Video 6.1: Demonstration of the LED digital display and air pressure sensing system, showing how to check and adjust air pressure.

## 6.2. Cutting Operation

1. **Select Mode:** Use the control panel to select between 2T (two-touch) or 4T (four-touch) trigger modes based on your cutting needs.
2. **Adjust Current:** Rotate the current adjust knob to set the desired amperage for your material thickness. The machine supports 15-35A at 120V and 15-60A at 240V.
3. **Position Torch:** Position the non-touch pilot arc torch approximately 1/8 inch above the workpiece. The non-touch feature allows cutting without direct contact, extending consumable life.
4. **Initiate Cut:** Press the torch trigger to initiate the pilot arc and begin cutting. Move the torch steadily along the desired cut line.
5. **Post-Air Flow:** The machine provides post-air flow after cutting to cool the torch and extend consumable life.


Figure 6.1: Plasma cutting in action.

The RBC6000DL PRO is capable of clean cuts up to 5/8 inch and severance cuts up to 4/5 inch. It can easily cut through rough, painted, and rusted surfaces with minimal slag.

## 7. Maintenance

Regular maintenance ensures optimal performance and longevity of your plasma cutter.

- **Consumables:** Regularly inspect and replace worn-out torch consumables (nozzles, electrodes, shield cups) to maintain cut quality and extend torch life.
- **Air Filter:** Check and drain the air filter regulator regularly to remove moisture and contaminants from the air supply.
- **Cleaning:** Keep the machine clean and free from dust and metal particles. Use compressed air to blow out internal components periodically, ensuring the machine is unplugged.
- **Cables and Connections:** Inspect all cables and connections for damage or loose fittings before each use.

## 8. Troubleshooting

Refer to the following table for common issues and their solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| No arc/No cut | Incorrect air pressure, worn consumables, poor ground connection, power issue. | Check air pressure (refer to display), replace consumables, ensure good ground contact, verify power supply. |
| Poor cut quality | Worn consumables, incorrect current/speed, improper torch distance. | Replace consumables, adjust current and cutting speed, maintain consistent torch distance. |
| Error Code E06 | No air connected or insufficient air pressure. | Connect air compressor, ensure adequate air pressure (min 90 PSI). |
| Machine overheats | Exceeding duty cycle, blocked ventilation. | Allow machine to cool down, ensure clear ventilation openings. |

## 9. Specifications

| Feature | Detail |
|---|---|
| Model Number | RBC6000DL-PRO |
| Input Voltage | Dual Voltage 120V/240V |
| Current Range (120V) | 15-35A |
| Current Range (240V) | 15-60A |
| Clean Cut Thickness (120V) | 14 mm (5/8 inch) at 35A, 50 PSI |
| Clean Cut Thickness (240V) | 20 mm (4/5 inch) at 60A, 60 PSI |
| Technology | IGBT Inverter, 50/60Hz High Frequency |
| Pilot Arc | Non-Touch Pilot Arc |
| Required Air Compressor | Min. 90 PSI, 60L/min, 750W or more |
| Item Weight | 16.07 pounds |
| Product Dimensions | 12.28 x 4.37 x 8.42 inches |

## 10. Warranty and Support

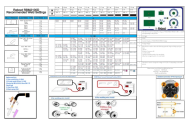
Reboot products are designed for durability and performance. For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official Reboot website.
For additional resources and product information, you may visit the Reboot Store on Amazon.



**Related Documents - RBC6000DL-PRO**


[Reboot RBC-5000DL Cutting Machine Operation Manual]

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.



[Reboot RBM2100D Recommended Weld Settings Guide]

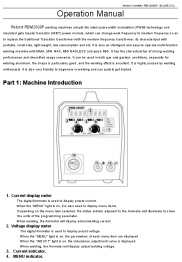
A comprehensive guide detailing recommended welding settings for the Reboot RBM2100D multi-process welder. This document covers settings for MIG, TIG, and Stick welding processes, including various electrode types, wire types, and wire diameters, along with control panel descriptions and installation instructions.


[Reboot RBA1400 & RBA1400D Welding Machine Operation Manual]

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.

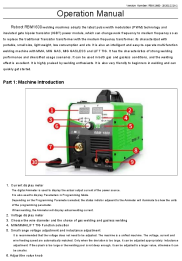

[Reboot RBM1300 Operation Manual: Your Guide to Advanced Welding]

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.




[Reboot RBM2000P Operation Manual: Welding Machine Guide]

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.




[Reboot RBM1600 Operation Manual: Your Guide to MMA, MIG, and LIFT TIG Welding]

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.