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› Reboot Plasma Cutter and MIG Welder Consumables Kit User Manual (PT-31, MB-15)

Reboot PT-31, JG-40, WSD-LG40, AK15, MB-15 Consumables Kit

Reboot Plasma Cutter and MIG Welder Consumables Kit User Manual

Model: PT-31, JG-40, WSD-LG40, AK15, MB-15 Consumables Kit

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Reboot Plasma Cutter and MIG Welder Consumables Kit. This kit is designed to provide replacement parts for various plasma cutting torches and MIG welding torches, ensuring optimal performance and longevity of your equipment.

Please read this manual thoroughly before using the consumables to ensure safe and effective operation.

2. COMPATIBILITY

This consumables kit is compatible with the following torch models and associated machines:

- **Plasma Cutting Torches:** PT-31, JG-40, WSD-LG40.
- **Compatible Plasma Cutting Machines:** CUT-40, CUT-40D, LGK-40, CT312, CT312D, CT416, CT416D, CT518, CT518D, Super160, Super160P, and similar models.
- **MIG Welding Torches:** AK15, MB-15.
- **Compatible MIG Welding Machines:** All MIG MAG devices with AK15 / MB-15 welding torch from various manufacturers.

3. KIT CONTENTS

The 40-piece plasma cutter consumables kit includes:

- 10 x Extended Tips
- 10 x Extended Electrodes
- 10 x Shielded Cups
- 10 x Gas Rings

The 42-piece MIG welding accessories kit includes:

- 2 x Gas Nozzles

- 20 x Contact Tips (0.8mm)
- 20 x Contact Tips (1.0mm)



Figure 1: Overview of the Reboot Plasma Cutter and MIG Welder Consumables Kit.

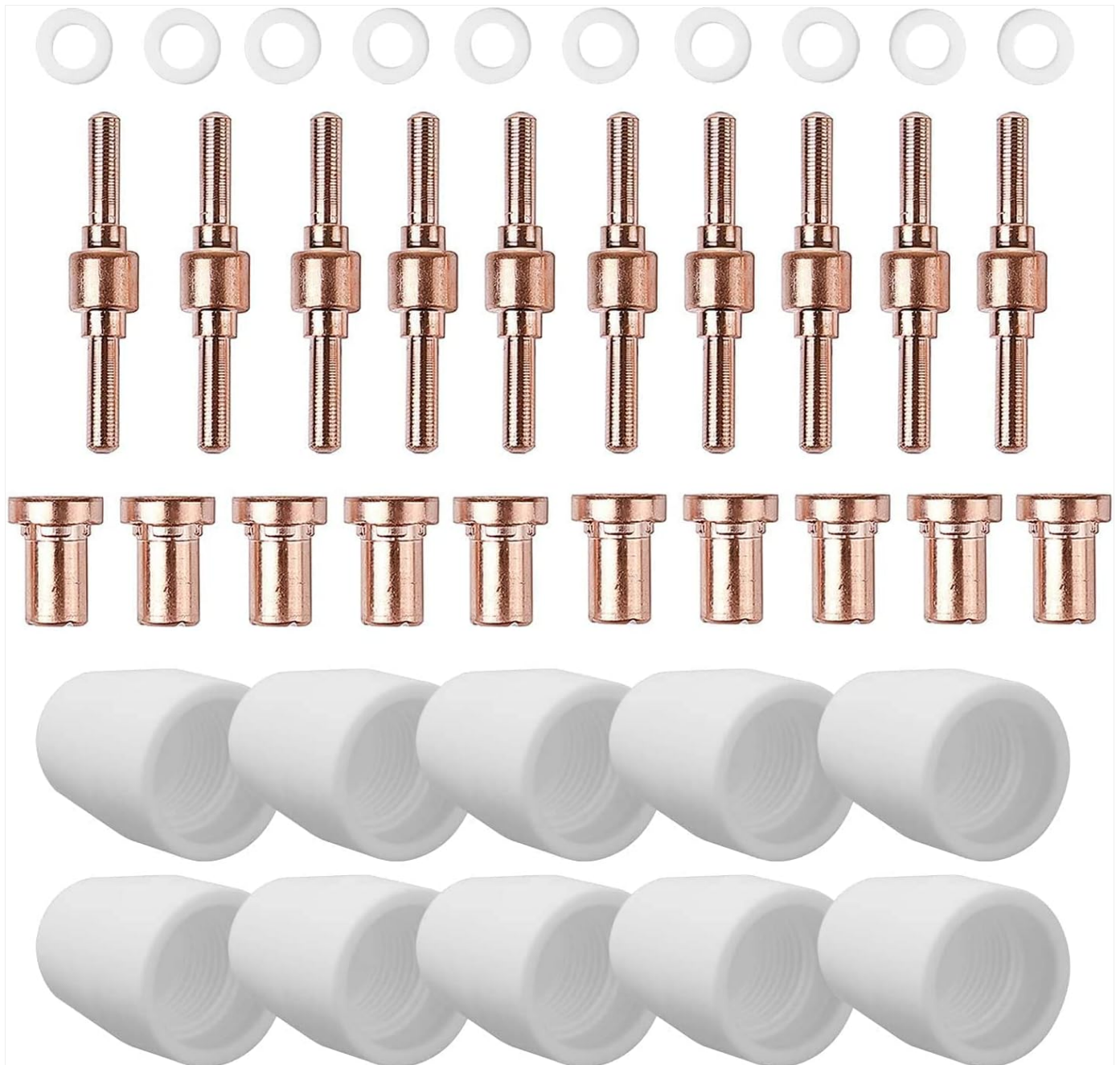


Figure 2: Individual components of the plasma cutter consumables, including tips, electrodes, shielded cups, and gas rings.

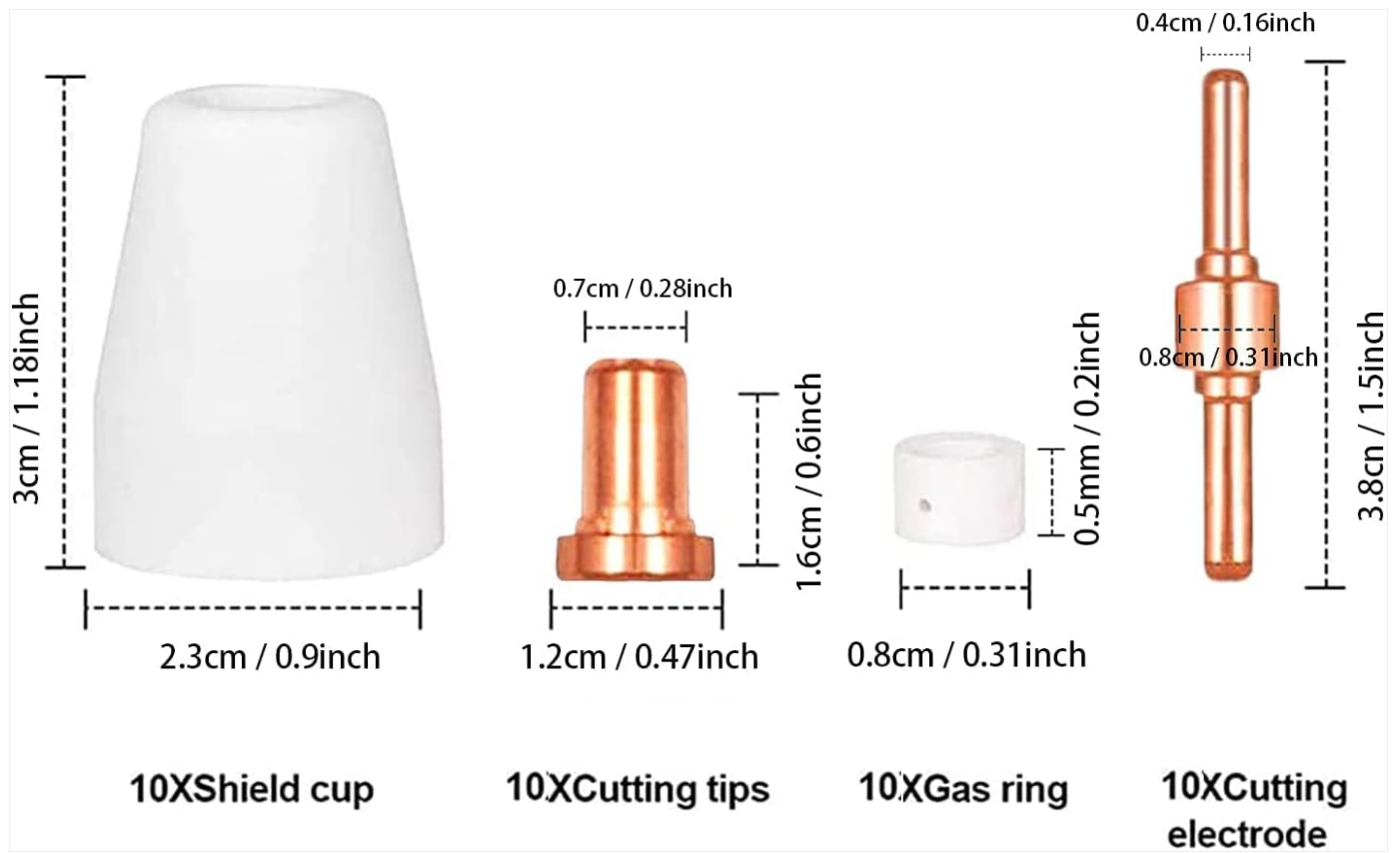


Figure 3: Detailed dimensions for the plasma cutter shielded cup, cutting tips, gas ring, and cutting electrode.



Figure 4: Individual components of the MIG welder consumables, including gas nozzles and contact tips.



Figure 5: Detailed dimensions for the MIG welder conical nozzle and contact tips (0.8mm and 1.0mm aperture).

4. SETUP AND INSTALLATION

4.1 Plasma Torch Consumables (PT-31, JG-40, WSD-LG40)

Proper installation of plasma torch consumables is crucial for efficient cutting and to prolong the life of the parts. Follow these steps:

1. Ensure the plasma cutter is powered off and disconnected from the power source.
2. Remove the old shielded cup by unscrewing it.

3. Carefully remove the old tip, electrode, and gas ring.
4. Insert the new gas ring, followed by the new extended electrode.
5. Place the new extended tip over the electrode.
6. Screw on the new shielded cup until it is finger-tight. Do not overtighten.



Figure 6: Diagram illustrating the assembly order of plasma torch consumables: shielded cup, tip-extended, gas ring, and electrode-extended.

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Video 1: Demonstrates the installation process for a PT31 cutting torch and ground clamp. This video shows how to correctly assemble the consumables onto the torch.

4.2 MIG Welding Torch Consumables (AK15 / MB-15)

To replace MIG welding torch consumables, follow these steps:

1. Ensure the MIG welder is powered off and disconnected from the power source.
2. Unscrew and remove the old gas nozzle.
3. Unscrew and remove the old contact tip.
4. Screw in the new contact tip (either 0.8mm or 1.0mm, depending on your wire size) until it is secure.
5. Screw on the new gas nozzle until it is finger-tight.

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Video 2: Provides guidelines for replacing MIG gun nozzles and contact tips, demonstrating the correct procedure for assembly.

5. OPERATING TIPS

To achieve optimal performance and extend the life of your consumables:

- **Correct Amperage:** Always use the appropriate amperage settings for the material thickness and type you are cutting or welding.
- **Proper Air Pressure (Plasma):** Maintain the recommended air pressure (typically 50-60 PSI for PT-31 torches) for clean cuts and efficient operation.

- **Torch Angle:** Hold the torch at the correct angle (usually perpendicular to the workpiece) for best results.
- **Travel Speed:** Adjust your travel speed to ensure a complete and clean cut or a consistent weld bead.
- **Regular Inspection:** Inspect consumables before each use for wear, damage, or debris. Replace any compromised parts promptly.

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Video 3: Shows a PT31 torch in action during arc air plasma cutting, demonstrating proper technique and the resulting cut.

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Video 4: Illustrates the function of a PT31 roller guide during plasma cutting, which can assist in maintaining consistent torch height.

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Video 5: Demonstrates the Reboot RBC5000D plasma cutting machine cutting 2/5" (10mm) thick plates, showcasing the cutting performance.

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Video 6: Shows the Reboot RBC5000D plasma cutting machine cutting 3/5" (16mm) thick plates, highlighting its capability on thicker materials.

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Video 7: Illustrates the cutting performance of a Reboot 60A Plasma Cutter, providing a visual reference for expected results.

6. MAINTENANCE

Regular maintenance of your consumables will ensure consistent performance and extend their lifespan:

- **Cleanliness:** Keep all consumable parts clean and free from slag, spatter, and debris. Use a wire brush or appropriate cleaning tool.
- **Inspection:** Before each use, inspect tips, electrodes, shielded cups, gas rings, and nozzles for signs of wear, pitting, or damage. Replace any compromised parts immediately.
- **Storage:** Store unused consumables in a dry, clean environment to prevent corrosion and damage.

7. TROUBLESHOOTING COMMON ISSUES

If you encounter issues during operation, consider the following:

- **Poor Cut Quality (Plasma):**
 - Check for worn or damaged tips/electrodes.
 - Verify correct air pressure and flow.
 - Ensure proper torch height and travel speed.
- **Inconsistent Arc (MIG):**
 - Inspect contact tip for blockage or wear.
 - Ensure gas nozzle is clean and free of spatter.
 - Check for proper wire feed speed and voltage settings on your welder.
- **Short Consumable Life:**
 - Ensure correct amperage and voltage settings are used.
 - Avoid dragging the plasma torch tip on the workpiece excessively.
 - Maintain proper gas flow and cleanliness.

8. SPECIFICATIONS

Plasma Cutter Consumables (PT-31 Type)

Component	Quantity	Description
Extended Tips	10 pcs	For PT-31, JG-40, WSD-LG40 torches
Extended Electrodes	10 pcs	For PT-31, JG-40, WSD-LG40 torches
Shielded Cups	10 pcs	For PT-31, JG-40, WSD-LG40 torches
Gas Rings	10 pcs	For PT-31, JG-40, WSD-LG40 torches

MIG Welder Consumables (AK15 / MB-15 Type)

Component	Quantity	Description
Gas Nozzles	2 pcs	For AK15 / MB-15 torches
Contact Tips (0.8mm)	20 pcs	For AK15 / MB-15 torches
Contact Tips (1.0mm)	20 pcs	For AK15 / MB-15 torches

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase additional consumables, please refer to the product packaging or contact Reboot customer service directly. Contact details can typically be found on the manufacturer's website or included documentation.

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