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YESWELDER CUT-65DS PRO

YESWELDER CUT-65DS PRO Plasma Cutter and Welding Cap User Manual

Model: CUT-65DS PRO

1. Introduction

This manual provides essential information for the safe and effective operation, setup, maintenance, and troubleshooting of your YESWELDER CUT-65DS PRO Plasma Cutter and the accompanying Reversible Welding Cap. Please read this manual thoroughly before using the equipment to ensure proper function and safety.



Image 1.1: The YESWELDER CUT-65DS PRO Plasma Cutter and Reversible Welding Cap.

2. Safety Instructions

Operating plasma cutting equipment involves significant risks. Adhere to all safety precautions to prevent injury or damage.

- **Electrical Safety:** Ensure the machine is properly grounded. Do not operate in wet conditions. Use appropriate circuit protection.
- **Fume Hazards:** Plasma cutting produces fumes and gases. Operate in a well-ventilated area or use fume extraction equipment.
- **Arc Rays:** The plasma arc emits intense ultraviolet and infrared rays that can burn eyes and skin. Always wear a welding helmet with appropriate shade, protective clothing, and gloves.
- **Fire and Explosion:** Sparks and hot metal can cause fires. Keep flammable materials away from the cutting area.
- **Compressed Air:** Ensure your air compressor and lines are in good working order and rated for the required pressure.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including a welding helmet, flame-resistant clothing, gloves, and safety footwear.

3. Product Overview

The YESWELDER CUT-65DS PRO is a 65Amp plasma cutting machine designed for efficient and precise metal cutting. It features advanced technology for enhanced performance and user safety.

3.1 Key Features

- **Non-High Frequency (Non-HF) Start:** The 'blow-back' start mechanism minimizes electromagnetic interference, making it safer for surrounding electrical equipment and human health.
- **Digital Display:** A clear digital screen provides real-time information on air pressure (PSI/MPa), voltage, and current (Amps), allowing for precise control and monitoring. It also displays error codes for quick troubleshooting.
- **Non-Touch Pilot Arc (IPT40 Torch):** This technology allows cutting without direct contact between the torch tip and the workpiece, improving cutting performance on rough, painted, or rusty surfaces and extending consumable life.
- **Dual Voltage Capability:** Operates on both 110V and 220V power supplies, offering versatility for various work environments.
- **IGBT Inverter Technology:** Provides stable and efficient power output for consistent cutting.



Image 3.1: The plasma cutter with its IPT40 torch, ground clamp, and air hose.



Image 3.2: Detailed view of the intelligent digital screen displaying PSI, Voltage, and Amperage.



Image 3.3: Illustration of Non-High Frequency technology benefits, including reduced interference to electrical equipment and human health.

3.2 Reversible Welding Cap

The included YESWELDER Reversible Welding Cap is designed for comfort and protection during welding operations.

- **Material:** Constructed from 240GSM Martin cloth material with a cotton lining, providing enhanced thickness and durability compared to standard caps.
- **Functionality:** Absorbs sweat, blocks dust, and offers additional heat resistance. It is intended to be worn under a welding helmet for extra safety and comfort.

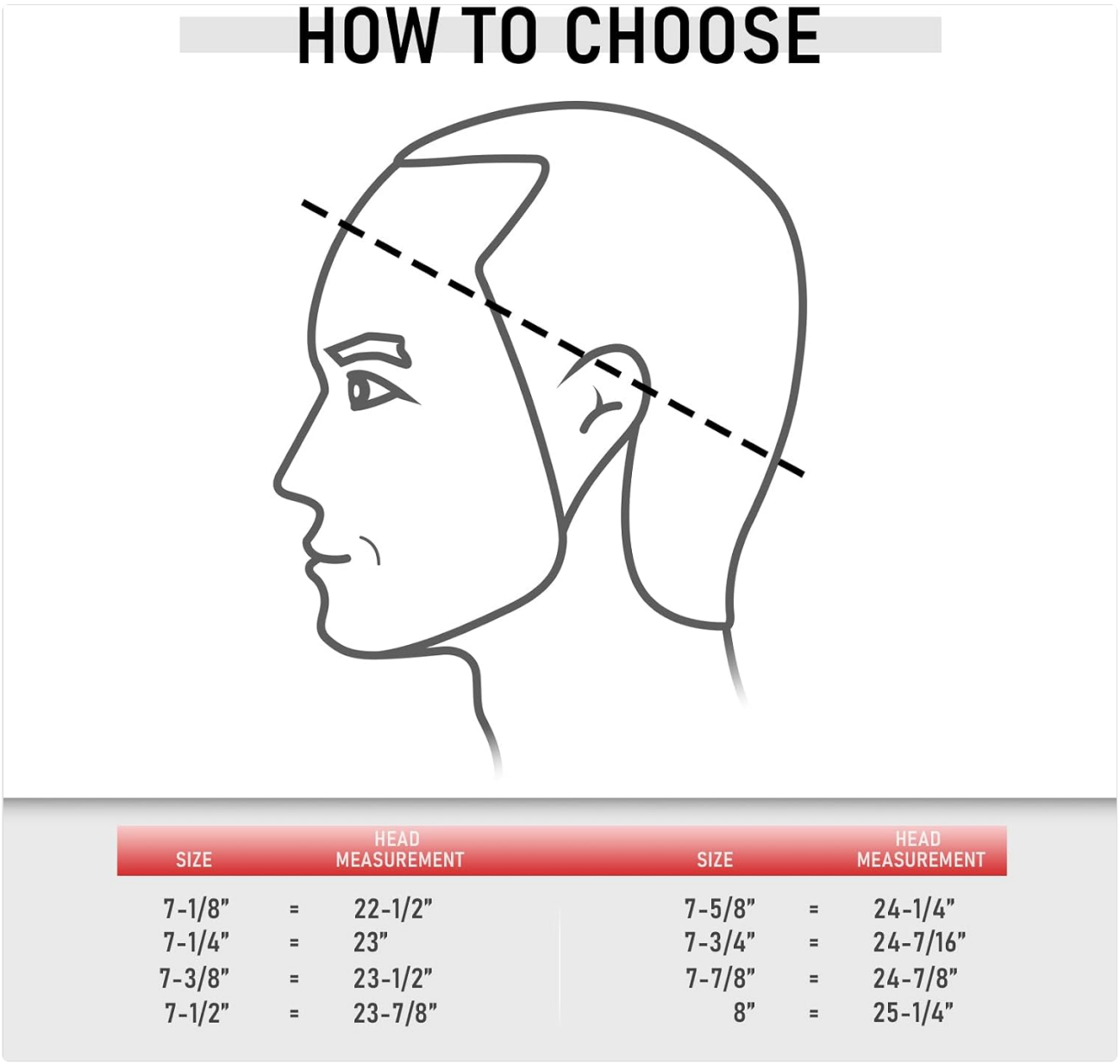


Image 3.4: The YESWELDER Black Reversible Welding Cap.



Image 3.5: Visual comparison highlighting the 240GSM Martin cloth material of the YESWELDER cap versus thinner alternatives.



Image 3.6: The welding cap providing additional protection and comfort when worn under a standard welding helmet.



Image 3.7: Head measurement guide for selecting the correct welding cap size.

4. Setup

Proper setup is crucial for safe and effective operation of the plasma cutter.

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all parts listed in the packing list are present and undamaged.
2. **Power Connection:** Connect the plasma cutter to an appropriate power source (110V or 220V) using the correct plug and adapter if necessary. Ensure the power outlet is properly grounded and can handle the machine's power requirements.
3. **Air Compressor Connection:** Connect a clean, dry air supply to the air inlet on the plasma cutter. Ensure the air pressure is set according to the specifications for your cutting task. The digital display will show the current air pressure.
4. **Torch and Ground Clamp Connection:** Securely connect the IPT40 plasma torch to the designated port on the front panel. Attach the ground clamp to the workpiece, ensuring good electrical contact.

5. Operating Instructions

Follow these steps for safe and effective plasma cutting.

1. **Prepare Work Area:** Ensure the work area is clean, well-ventilated, and free of flammable materials. Wear all necessary PPE.
2. **Power On:** Turn on the main power switch of the plasma cutter. The digital display will illuminate.
3. **Set Parameters:** Adjust the cutting current (Amps) and air pressure (PSI) using the controls on the front panel. Refer to the cutting chart (if provided separately) for recommended settings based on material type and thickness. The digital display will show the current settings.
4. **Initiate Pilot Arc:** Position the torch over the workpiece. The non-touch pilot arc feature allows you to start cutting without direct contact.
5. **Cutting:** Maintain a consistent torch height and travel speed for optimal cut quality. The machine's 65Amp output is capable of clean cuts up to 5/16" at 110V and 5/8" at 220V, with a maximum cut of 1/2" at 110V and 63/64" at 220V.
6. **Post-Flow:** After releasing the torch trigger, the machine will continue to flow air for a short period (post-flow) to cool the torch and extend consumable life.
7. **Power Off:** Once cutting is complete, turn off the plasma cutter and disconnect the power supply.



Image 5.1: The plasma cutter demonstrating its cutting capabilities, highlighting clean and maximum cut thicknesses.

6. Maintenance

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

- **Consumables:** Regularly inspect and replace torch consumables (electrode, nozzle, shield cap) as they wear out. Worn consumables negatively impact cut quality.
- **Air Filter:** Check and clean or replace the air filter/water separator regularly to ensure a clean, dry air supply. Moisture in the air line can damage the torch and machine.
- **Cleaning:** Keep the machine and torch clean and free of dust and debris. Use compressed air to blow out internal components periodically, ensuring the machine is unplugged first.
- **Cables and Connections:** Inspect all cables and connections for damage or loose fittings. Repair or replace as needed.

7. Troubleshooting

The digital display on the CUT-65DS PRO features an error code system to assist with troubleshooting. If a problem occurs, an error code will be displayed on the screen.

- **No Arc:** Check power supply, air pressure, ground clamp connection, and torch consumables.
- **Poor Cut Quality:** Inspect torch consumables, adjust cutting speed, current, and air pressure. Ensure material is clean.
- **Machine Overheating:** Allow the machine to cool down. Ensure proper ventilation and check for obstructions to airflow.
- **Error Codes:** Refer to the specific error code displayed on the digital screen. Consult the full YESWELDER troubleshooting guide (if available on their website) for detailed explanations and solutions for each code.

If issues persist, contact YESWELDER customer support for assistance.

8. Specifications

Feature	Specification
Model Name	CUT-65DS PRO
Brand	YESWELDER
Power Source	Corded Electric
Input Voltage	110V/220V (Dual Voltage)
Output Power	14300 Watts
Cutting Amperage	65 Amps
Start Type	Non-High Frequency (Blow-back)
Torch Type	IPT40 Non-Touch Pilot Arc
Clean Cut (110V)	5/16 inch
Max Cut (110V)	1/2 inch
Clean Cut (220V)	5/8 inch
Max Cut (220V)	63/64 inch

9. Warranty and Support

For information regarding warranty coverage, terms, and conditions, please refer to the official YESWELDER website or contact their customer service directly. Keep your purchase receipt as proof of purchase.
For technical support, spare parts, or service inquiries, please visit theYESWELDER Store or contact their authorized service centers.

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