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YESWELDER ARC-125DS

YESWELDER ARC-125DS Mini Stick Welder User Manual

Model: ARC-125DS | Brand: YESWELDER

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your YESWELDER ARC-125DS Mini Stick Welder. Please read this manual thoroughly before using the equipment and retain it for future reference.



Figure 1: YESWELDER ARC-125DS Mini Stick Welder, a compact and portable welding machine.

2. Safety Information

Welding operations involve inherent risks. Adhere to all safety precautions to prevent injury or equipment damage. Always wear appropriate personal protective equipment (PPE) including welding helmets, gloves, and protective clothing. Ensure adequate ventilation in the work area.

2.1 General Safety Guidelines

- **Electric Shock:** Welding current can cause severe or fatal electric shock. Do not touch live electrical parts. Ensure the work area is dry and free from moisture.
- **Fumes and Gases:** Welding produces 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 use a welding helmet with the correct shade filter and wear protective clothing.
- **Fire and Explosion:** Welding sparks and hot metal can cause fires. Keep flammable materials away from the welding area.
- **Hot Parts:** Welded materials and equipment can remain hot for extended periods. Handle with care and use appropriate tools.

2.2 Machine Safety Features

The YESWELDER ARC-125DS is equipped with several safety mechanisms:

- **Automatic Voltage Fluctuation Compensation:** Helps maintain stable operation under varying input voltage.
- **Over Current Protection:** Shuts down the machine if current exceeds safe limits.
- **Overload Protection:** Prevents damage from excessive load.
- **Temperature Control:** Monitors internal temperature and shuts down to prevent overheating.
- **IP21 Protection Standard:** Indicates protection against solid objects over 12mm and vertically falling water drops.
- **Electrostatic Coating:** A unique coating designed to prevent shock transfer.



Figure 2: Overview of the safety features integrated into the YESWELDER ARC-125DS welding machine.

3. Product Components and Overview

The YESWELDER ARC-125DS is a compact and portable welding machine designed for both stick (MMA) and Lift TIG welding. It features an intuitive control panel and robust construction.

3.1 Included Components

- 1 x YESWELDER ARC-125DS Stick Welder
- 1 x Electrode Holder
- 1 x Ground Clamp

3.2 Control Panel Introduction



Figure 3: Detailed view of the front control panel with numbered components.

1. **Parameter Button:** Used to select adjustable welding parameters.
2. **Welding Mode Button:** Toggles between Stick (MMA) and Lift TIG welding modes.
3. **VRD Button (Voltage Reduction Device):** Activates or deactivates the VRD function for enhanced safety in certain environments.
4. **Digital Display:** Shows current settings, function mode, and welding mode.
5. **Value Knob:** Adjusts the welding current (amperage) and other selected parameters.

3.3 Rear Panel Introduction



Figure 4: Detailed view of the rear panel with numbered components.

6. **Positive Output Terminal:** Connects to the electrode holder for DC+ welding.
7. **Negative Output Terminal:** Connects to the ground clamp for DC- welding.
8. **Input Power Cable:** Connects the machine to the power supply (110V AC).
9. **Power Switch:** Turns the welding machine on or off.
10. **Fan:** Provides cooling for the internal components during operation.

4. Setup

Proper setup is crucial for safe and effective welding. Ensure all connections are secure before powering on the machine.

4.1 Power Connection

- Ensure the power switch (9) is in the OFF position.
- Connect the input power cable (8) to a suitable 110V AC power outlet. The machine requires a dedicated 20A circuit for optimal performance, especially during stick welding.

4.2 Electrode Holder and Ground Clamp Connection

- Connect the electrode holder cable to the positive output terminal (6).
- Connect the ground clamp cable to the negative output terminal (7).
- Ensure connections are tight and secure.

4.3 Workpiece Preparation

- Clean the workpiece surface of any rust, paint, or contaminants to ensure a good electrical connection.
- Attach the ground clamp securely to the workpiece or a clean, bare metal work table. A poor ground connection can lead to unstable arcs and poor weld quality.

5. Operating Instructions

The ARC-125DS supports both Stick (MMA) and Lift TIG welding processes. Always wear appropriate PPE before starting any welding operation.

5.1 Power On and Mode Selection

- Turn on the power switch (9) located on the rear panel.
- The digital display (4) will illuminate.
- Press the Welding Mode Button (2) to select either "Stick" or "Lift TIG" mode. The selected mode will be indicated on the display.

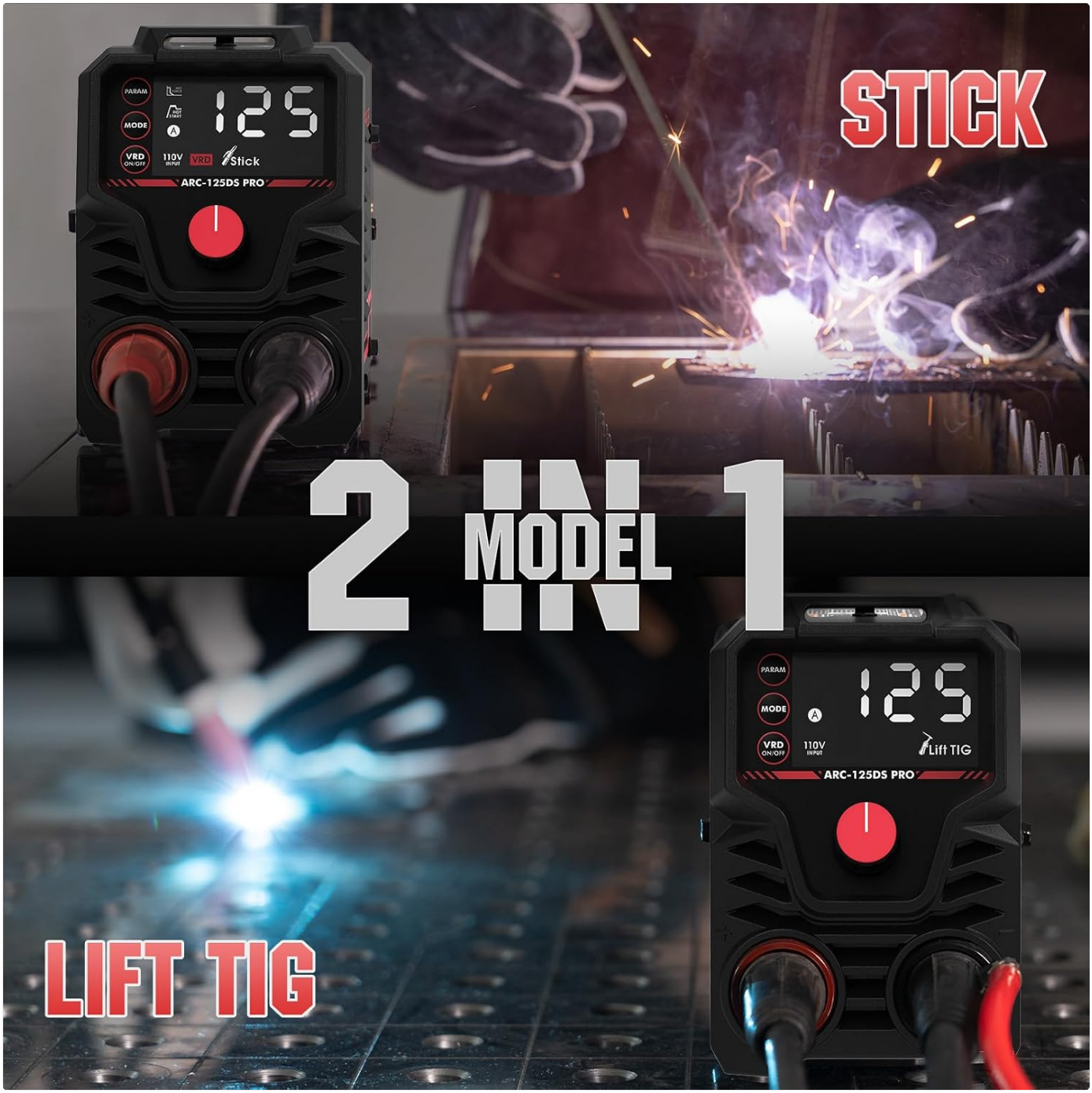


Figure 5: The ARC-125DS supports both Stick and Lift TIG welding, selectable via the mode button.

5.2 Stick (MMA) Welding

- Select "Stick" mode using the Welding Mode Button (2).
- Insert the appropriate welding electrode into the electrode holder. The machine is suitable for E6011, E6013, E6010, and E7018 welding rods below 1/8 inch (3.2mm).
- Adjust the welding current (amperage) using the Value Knob (5). Refer to electrode manufacturer recommendations for starting amperage.
- The machine features **Adjustable Hot Start** to boost current at arc initiation for easier starts, and**Arc Force** to prevent electrode sticking by intelligently adjusting current during welding.
- Begin welding, maintaining a consistent arc length and travel speed.



Figure 6: Example of stick welding in progress, demonstrating the machine's capability.

5.3 Lift TIG Welding (TIG Torch not included)

- Select "Lift TIG" mode using the Welding Mode Button (2).
- Connect a compatible Lift TIG torch (not included) to the machine.
- Ensure an inert gas supply (e.g., Argon) is connected and flowing to the TIG torch.
- Adjust the welding current (amperage) using the Value Knob (5).
- To initiate the arc, gently touch the tungsten electrode to the workpiece and then lift it slightly. The arc will start without high-frequency interference.
- Maintain a short arc length and feed filler rod as needed.



Figure 7: Example of Lift TIG welding, showcasing the precision possible with this mode.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your welding machine. Always disconnect the power supply before performing any maintenance.

6.1 Cleaning

- Periodically clean the exterior of the machine with a dry, soft cloth.
- Use compressed air to blow out dust and debris from the cooling vents and internal components. Ensure the air is

dry and oil-free.

- Clean the electrode holder and ground clamp jaws to ensure good electrical contact.

6.2 Inspection

- Inspect all cables (power, electrode, ground) for cuts, cracks, or frayed insulation. Replace damaged cables immediately.
- Check all connections for tightness.
- Ensure the cooling fan operates freely and is not obstructed.

7. Troubleshooting

This section provides solutions to common issues you might encounter. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
No power to the machine	Power switch off, power cable disconnected, circuit breaker tripped.	Ensure power switch is ON. Check power cable connection. Reset circuit breaker.
No arc or weak arc	Poor ground connection, incorrect amperage setting, damp electrode, faulty electrode holder.	Ensure ground clamp is on clean metal. Adjust amperage. Use dry electrodes. Inspect electrode holder.
Machine overheats and shuts down	Exceeded duty cycle, blocked ventilation, high ambient temperature.	Allow machine to cool down. Ensure clear airflow to vents. Reduce welding time or amperage.
Electrode sticks frequently	Low amperage, incorrect arc length, improper electrode angle.	Increase amperage. Maintain proper arc length. Adjust electrode angle. Utilize Arc Force feature.

8. Specifications

Key technical specifications for the YESWELDER ARC-125DS Mini Stick Welder.

Feature	Detail
Model Name	ARC-125DS-PRO
Part Number	ARC125DS
Input Voltage	AC 110V
Amperage Capacity	125 Amps
Wattage	2.8 KW
Item Weight	4.4 pounds (2 kg)
Product Dimensions	9.3 x 3.7 x 5.1 inches (approx. 23.6 x 9.4 x 13 cm)
Rated Duty Cycle	60% at 125 Amp
Display Style	LED

Feature	Detail
Material	Metal casing with additional plastic protection
Certifications	FCC, CE



Figure 8: Technical specifications and performance data for the ARC-125DS PRO.

9. Warranty and Support

YESWELDER stands behind the quality of its products.

9.1 Warranty Information

This product comes with a **1-Year Warranty** from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims. The warranty does not cover damage due to misuse, improper maintenance, or unauthorized modifications.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact YESWELDER customer support. We offer **24/7 Customer Support** to assist you.

- **Online Support:** Visit the official YESWELDER website for FAQs and support resources.
- **Contact Information:** Refer to your product packaging or the YESWELDER website for the most current contact details.

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