

WnewTools CHU1694367

ARC-300 Portable Electric Welder Instruction Manual

Model: CHU1694367 | Brand: WnewTools

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your WnewTools ARC-300 Portable Electric Welder. Please read this manual thoroughly before using the product and retain it for future reference. The ARC-300 is designed for various welding tasks, offering a strong, concentrated, and smooth arc for efficient work.

2. SAFETY INFORMATION

WARNING: Welding can be dangerous. Always follow safety precautions to prevent injury or death. Read and understand all safety warnings and instructions before operating this equipment.

- Always wear appropriate personal protective equipment (PPE), including welding helmet, gloves, and protective clothing.
- Ensure adequate ventilation to avoid inhaling fumes.
- Protect bystanders from arc rays and hot metal.
- Disconnect power before performing any maintenance or adjustments.
- Do not operate in wet conditions or near flammable materials.

3. PACKAGE CONTENTS

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

- 1 x Inverter welding machine
- 1 x Ground wire
- 1 x Anti-scalding welding tongs
- 1 x Wrench
- 2 x Quick Connector



Figure 3.1: ARC-300 Portable Electric Welder with all included accessories, including the main unit, ground wire, welding tongs, wrench, and quick connectors.

4. PRODUCT ANALYSIS AND COMPONENTS

Familiarize yourself with the various parts of the ARC-300 welding machine:

Product analysis



Figure 4.1: Detailed view of the ARC-300 welder, highlighting key components such as the Power LED, Abnormal display light, Current digital display, Rotatable handle, Current adjustment knob, Front cooling window, Side heat dissipation window, Positive ground wire terminal, and Negative electrode welding terminal.

- **Power LED:** Indicates when the machine is powered on.
- **Abnormal Display Light:** Illuminates to indicate an error or abnormal operating condition.
- **Current Digital Display:** Shows the current welding amperage.
- **Rotatable Handle:** For easy portability of the unit.
- **Current Adjustment Knob:** Used to set the desired welding current (10-300A).
- **Front Cooling Window:** Air intake for cooling the internal components.
- **Side Heat Dissipation Window:** Air exhaust for heat dissipation.
- **Positive Ground Wire Terminal (+):** Connection point for the ground clamp.
- **Negative Electrode Welding Terminal (-):** Connection point for the electrode holder (welding tongs).

5. SETUP

Follow these steps to set up your ARC-300 welder for operation:

1. **Placement:** Place the welding machine on a stable, level surface in a well-ventilated area, away from moisture and

flammable materials.

2. **Connect Ground Wire:** Connect the ground wire to the Positive Ground Wire Terminal (+) on the front panel. Ensure a secure connection by screwing it clockwise into the slot. Attach the ground clamp to the workpiece or welding table, ensuring good electrical contact.
3. **Connect Welding Tongs:** Connect the anti-scalding welding tongs (electrode holder) to the Negative Electrode Welding Terminal (-) on the front panel. Secure it by screwing clockwise into the slot.
4. **Power Connection:** Plug the welder's power cord into a suitable power outlet (150V-270V).



Figure 5.1: Illustration of how to connect the quick connectors by screwing them clockwise into the corresponding terminal slots, ensuring the card slot aligns with the pin.

6. OPERATING INSTRUCTIONS

The ARC-300 welder is designed for efficient and stable arc welding. Follow these general operating guidelines:

1. **Power On:** Turn on the main power switch of the welding machine. The Power LED should illuminate.

- 2. **Set Current:** Use the Current Adjustment Knob to set the desired welding current. The digital display will show the selected amperage. Adjust the current based on the electrode type, diameter, and material thickness.
- 3. **Electrode Selection:** Choose an appropriate electrode for the material you are welding (e.g., stainless steel, alloy steel, carbon steel, copper, and other non-ferrous metals).
- 4. **Arc Striking:** Strike the arc by lightly touching the electrode to the workpiece and quickly lifting it slightly to establish the arc.
- 5. **Welding:** Maintain a consistent arc length and travel speed for a smooth and uniform weld bead. The machine provides a strong, concentrated, and smooth arc with rapid reaction during short-circuit droplet transfer.
- 6. **Arc Adjustment:** The machine features an arc adjustment device, allowing you to fine-tune the dynamic characteristics of the arc to be softer or harder, depending on your welding needs.
- 7. **Applications:** This welding machine is suitable for various applications, including aerial work, field work, and indoor installations.
- 8. **Power Off:** After welding, turn off the main power switch and allow the machine to cool down before disconnecting cables.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your ARC-300 welder:

- **Cleaning:** Periodically clean the cooling vents and internal components using compressed air to remove dust and debris. Ensure the machine is unplugged before cleaning.
- **Cable Inspection:** Regularly inspect welding cables, ground clamps, and electrode holders for damage, fraying, or loose connections. Replace damaged components immediately.
- **Storage:** Store the welder in a dry, clean environment when not in use.
- **Tighten Connections:** Ensure all electrical connections are tight and secure.

8. TROUBLESHOOTING

If you encounter issues with your ARC-300 welder, refer to the following common troubleshooting tips:

- **No Power:** Check the power cord connection, wall outlet, and circuit breaker. Ensure the main power switch is ON.
- **No Arc/Weak Arc:** Verify that the ground clamp has good contact with the workpiece. Check electrode connection and ensure the current setting is appropriate for the task. Inspect cables for damage.
- **Abnormal Display Light On:** This indicates an internal fault or overheating. Turn off the machine, allow it to cool, and check for any obstructions in the cooling vents. If the issue persists, contact customer support.
- **Poor Weld Quality:** Adjust the current setting, arc length, and travel speed. Ensure the workpiece is clean and free of rust or contaminants.

9. SPECIFICATIONS

Parameter	Value
Rated Input Voltage	150V-270V
Frequency	50Hz/60Hz
Output Current Regulation	10-300A

Parameter	Value
No-load Voltage	57V
Load Continuation Rate	60%
Power Factor	0.93
Shell Protection Rating	IP21
Insulation Class	F
Product Dimensions (L x W x H)	335 x 145 x 285mm (10 x 2 x 2.7 inches)
Item Weight	7.3 pounds
Material	Alloy Steel, Copper
Color	Red
Model Number	CHU1694367
UPC	769902894789

10. WARRANTY AND SUPPORT

For warranty information or technical support regarding your WnewTools ARC-300 Portable Electric Welder, please contact the manufacturer directly through their official channels. Keep your purchase receipt as proof of purchase.

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Example: How do I reset this device or fix this error?

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