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Voyager Tools RR10913

Voyager Tools ARC Welder 200 Amp Dual Voltage Instruction Manual

Model: RR10913

Introduction

This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your Voyager Tools ARC Welder 200 Amp Dual Voltage machine. Please read this manual thoroughly before operating the welder to ensure proper use and to prevent injury or damage.
Safety is paramount. Always adhere to all safety warnings and guidelines outlined in this document.

Important Safety Instructions

Welding can be hazardous. It is crucial to understand and follow all safety precautions to prevent electric shock, fire, burns, and other serious injuries.

- **Electric Shock:** Welding current can cause fatal electric shock. Ensure the welder is properly grounded. Do not touch live electrical parts. Wear dry welding gloves and protective clothing.
- **Fumes and Gases:** Welding fumes and gases can be hazardous to your health. Work in a well-ventilated area. Use an exhaust fan or fume extractor if necessary.
- **Arc Rays:** Arc rays can burn eyes and skin. Wear a welding helmet with appropriate shade filter. Protect others in the vicinity with welding screens.
- **Fire and Explosion:** Welding sparks and hot metal can cause fire or explosions. Keep flammable materials away from the welding area. Have a fire extinguisher readily available.
- **Burns:** Hot metal and electrodes can cause severe burns. Wear protective clothing, including long sleeves, pants, and welding gloves.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including a welding helmet, safety glasses, welding gloves, and protective clothing.
- **Work Area:** Keep the work area clean, dry, and free of clutter. Ensure adequate lighting.
- **Children and Bystanders:** Keep children and unauthorized persons away from the welding area.

Product Overview

The Voyager Tools ARC Welder 200 Amp is a robust welding machine designed for various arc welding applications. It features dual voltage input (110V/220V) for versatility and a fan-cooled system for extended operation.

Components Included:

- ARC Welder Unit (Model RR10913)
- Welding Mask
- Earth Clamp (5 feet)
- Electrode Clamp (6.5 feet)
- Power Cord (14 gauge, 6.5 feet)
- Wire Brush/Hammer



Figure 1: Voyager Tools ARC Welder 200 Amp with included accessories. The image displays the main red welding unit, a black welding mask, an earth clamp, an electrode clamp, and a wire brush/hammer tool.

Setup

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any shipping damage. Report any damage to your supplier immediately.
2. **Placement:** Place the welder on a stable, level surface. Ensure adequate ventilation around the machine. Do not block the cooling fan vents.
3. **Power Connection:**
    - The welder operates on either 110V or 220V, 60Hz AC power.
    - Ensure the power outlet matches the voltage setting of the welder and has appropriate circuit protection.
    - Connect the 14 gauge power cord to a suitable grounded power source.
4. **Connecting the Earth Clamp:**
    - Connect the earth clamp cable to the designated ground terminal on the welder.

- Attach the earth clamp securely to the workpiece or a clean, bare metal part of the welding table. A good ground connection is critical for safe and effective welding.

5. **Connecting the Electrode Clamp:**
    - Connect the electrode clamp cable to the designated output terminal on the welder.
    - Insert the welding electrode into the electrode clamp, ensuring it is held firmly.

Operating Instructions

Pre-Operation Checklist:

- Ensure all safety gear (welding helmet, gloves, protective clothing) is worn.
- Verify proper ventilation in the work area.
- Confirm all connections (power, earth clamp, electrode clamp) are secure.
- Clear the work area of flammable materials.

Welding Procedure:

1. **Power On:** Turn on the welder using the power switch. The cooling fan should activate.
2. **Current Adjustment:** Adjust the welding current (Amperage) using the control knob on the front panel. The appropriate current setting depends on the electrode diameter and the material thickness. Refer to electrode manufacturer guidelines for recommended settings. The current range is 60-200A.
3. **Striking an Arc:**
    - Lower your welding helmet.
    - Gently scratch the electrode tip against the workpiece, similar to striking a match.
    - Once the arc is established, maintain a consistent arc length (typically equal to the electrode diameter).
4. **Welding:** Move the electrode steadily along the joint, maintaining the arc length and angle. Observe the molten puddle and adjust your speed to achieve a consistent bead.
5. **Finishing:** When the weld is complete, lift the electrode from the workpiece to break the arc. Allow the weld and workpiece to cool before handling. Use the wire brush/hammer to remove slag.

Practice on scrap material before attempting critical welds.

Maintenance

Regular maintenance ensures the longevity and safe operation of your welder.

- **Cleaning:** Periodically clean the welder's exterior with a dry cloth. Use compressed air to blow out dust and debris from the cooling vents. Ensure the welder is unplugged before cleaning.
- **Cable Inspection:** Regularly inspect all cables (power, earth, electrode) for cuts, fraying, or damaged insulation. Replace damaged cables immediately.
- **Clamp Inspection:** Check the earth clamp and electrode clamp for good contact surfaces and secure connections. Clean any corrosion or buildup.

- **Storage:** Store the welder in a clean, dry environment, away from excessive dust, moisture, and corrosive materials.
- **Thermal Protection:** This unit includes thermal protection. If the welder overheats, it will automatically shut down. Allow it to cool down before resuming operation.

Troubleshooting

Problem	Possible Cause	Solution
Welder does not power on.	No power from outlet; Power switch off; Internal fuse blown.	Check power supply and circuit breaker; Ensure power switch is ON; Consult qualified technician for fuse replacement.
No arc or weak arc.	Poor earth connection; Incorrect current setting; Damp or old electrodes; Loose cable connections.	Ensure earth clamp is on clean metal; Adjust current; Use dry, fresh electrodes; Tighten all cable connections.
Welder shuts down during operation.	Overheating (thermal protection activated); Overcurrent.	Allow welder to cool down; Ensure adequate ventilation; Reduce welding current or duty cycle.
Excessive spatter.	Current too high; Arc length too long; Incorrect electrode angle.	Reduce current; Shorten arc length; Adjust electrode angle.

If problems persist after attempting these solutions, please contact customer support.

Technical Specifications

Model	RR10913
Rated Input Voltage	110/220 V, 60 HZ
No Load Voltage	48V
Input Capacity (KAV)	11.2
Current Range	60-200A
Rated Duty Cycle	10%@200A
Electrodes (mm)	2.0 - 4.0
Class of Insulation	H
Case Protection Degree	21s
Cooling	Fan cooled

Thermal Protection	Yes

Warranty and Support

Voyager Tools products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official Voyager Tools website.
For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Voyager Tools customer support. Keep your purchase receipt and product model number (RR10913) handy when contacting support.

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