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Voyager Tools VOY-155016

Voyager Tools 195 AMP MIG/MAG Welder User Manual

Model: VOY-155016

1. Introduction

Thank you for choosing the Voyager Tools 195 AMP MIG/MAG Welder. This manual provides essential information for the safe and efficient operation, setup, maintenance, and troubleshooting of your welding machine. Please read this manual thoroughly before using the welder to ensure proper function and to prevent injury or damage.

2. Safety Instructions

Welding can be dangerous. Always follow safety precautions to prevent electric shock, fire, burns, and other serious injuries. This section outlines general safety guidelines. Refer to local safety standards and regulations for comprehensive information.

- **Personal Protective Equipment (PPE):** Always wear a welding helmet with appropriate shade, flame-resistant clothing, welding gloves, and safety shoes.
- **Ventilation:** Ensure adequate ventilation to remove welding fumes. Use a fume extractor if necessary.
- **Electrical Safety:** Ensure the welder is properly grounded. Do not operate in wet conditions. Inspect cables for damage before each use.
- **Fire Prevention:** Keep a fire extinguisher nearby. Remove flammable materials from the welding area.
- **Work Area:** Keep the work area clean and free of clutter. Ensure stable footing.
- **Gas Cylinders:** Secure gas cylinders properly. Handle with care.
- **Arc Rays:** Protect eyes and skin from arc rays, which can cause severe burns.

3. Product Overview

The Voyager Tools 195 AMP MIG/MAG Welder is designed for versatile welding applications, offering both gas and gasless functions. It is engineered for precision and durability, incorporating features such as:

- Design that aims to exceed industry standards.
- Precision manufacturing for consistent quality.
- Improved design standards for enhanced user experience and longevity.
- Undergoes professional testing to guarantee reliability.
- Backed by a quality assurance process.

Included Components:

- Welding Gun
- Ground Clamp with Cable
- Contact Tips
- Gas Nozzles



Figure 1: Front view of the Voyager Tools MIG 195 Welder, a yellow and black unit with control knobs, display, and connections for the welding gun and ground clamp. The welding gun and cables are coiled on top and in front of the machine.

4. Setup

Proper setup is crucial for safe and effective welding. Follow these steps carefully.

1. **Unpacking:** Carefully remove the welder and all accessories from the packaging. Inspect for any shipping damage.
2. **Power Connection:** Connect the welder to a 230V/60HZ single-phase power supply. Ensure the power outlet is properly grounded and can handle the welder's current requirements.
3. **Ground Clamp Connection:** Attach the ground clamp cable securely to the workpiece. Ensure good electrical contact.
4. **Welding Gun Connection:** Connect the welding gun to the appropriate receptacle on the welder.
5. **Wire Spool Installation:** Open the wire feed compartment and install the appropriate welding wire spool (Solid, Flux-cored, Stainless Steel, or Aluminum). Thread the wire through the feed mechanism and into the welding gun liner.
6. **Gas Connection (for MIG/MAG welding with gas):** If performing gas-shielded welding, connect the gas hose from the welder to a suitable shielding gas cylinder (e.g., Argon, CO2, or a mix). Ensure the gas regulator is properly installed and set to the recommended flow rate. This welder supports both gas and gasless operation.
7. **Contact Tip and Nozzle:** Ensure the correct contact tip and gas nozzle are installed on the welding gun for the chosen wire type and diameter.

5. Operating Instructions

This section provides general guidance for operating your Voyager Tools 195 AMP MIG/MAG Welder. Always refer to specific

welding technique guides for detailed application instructions.

1. **Power On:** Turn on the main power switch on the welder.
2. **Select Welding Mode:** Choose between gas or gasless operation depending on your setup and wire type.
3. **Set Current Range:** Adjust the current control knob to select the desired amperage, typically between 60-190 AMPS, based on the material thickness and wire type.
4. **Set Wire Feed Speed:** Adjust the wire feed speed to match the selected current. This is crucial for a stable arc and good weld quality.
5. **Test Weld:** Before welding on your main workpiece, perform a test weld on a scrap piece of the same material to fine-tune your settings.
6. **Welding:**
   - Position the welding gun at the correct angle to the workpiece.
   - Press the trigger to initiate the arc and wire feed.
   - Maintain a consistent travel speed and arc length.
   - Release the trigger to stop welding.
7. **Material and Wire Compatibility:**
   - Solid Wire: 0.031" (0.8mm) for general steel.
   - Flux-cored Wire: 0.047" (1.2mm) for gasless welding.
   - Stainless Steel Wire: 0.031" (0.8mm).
   - Aluminum Wire: 0.031" (0.8mm).
8. **Weld Thickness:** This welder is capable of welding materials up to 5/16" thick.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your welder.

- **Daily:**
  - Inspect welding cables and connections for damage.
  - Clean the welding gun nozzle and contact tip. Replace if worn.
  - Check gas hose and connections for leaks (if applicable).
- **Weekly/Monthly:**
  - Clean the wire feed rollers and guide tubes.
  - Check the wire spool brake tension.
  - Remove dust and debris from the welder's interior using compressed air (ensure power is disconnected).
- **Periodically:**
  - Inspect and clean the cooling fan.
  - Check all electrical connections for tightness.

7. Troubleshooting

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

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power to welder	Power cord unplugged, circuit breaker tripped, faulty power switch.	Check power cord, reset circuit breaker, contact service if switch is faulty.
No arc	Poor ground connection, wrong settings, worn contact tip, wire feed issue.	Ensure good ground, adjust settings, replace contact tip, check wire feed path.
Poor weld quality (porosity, spatter)	Incorrect gas flow (if applicable), dirty workpiece, wrong settings, worn nozzle/tip.	Check gas flow, clean workpiece, adjust voltage/wire speed, replace consumables.
Wire feeding issues	Kinked wire, incorrect roller tension, clogged liner, wrong roller size.	Inspect wire, adjust roller tension, clean/replace liner, ensure correct rollers.

8. Specifications

Model Number	VOY-155016
Manufacturer	Voyager Tools
Voltage/Frequency	230V/60HZ Single Phase
Rated Duty Cycle	10% at 180A
Current Range	60-190 AMPS
Wire Types Supported	Solid, Flux-cored, Stainless Steel, Aluminum
Wire Sizes Supported	0.031" (0.8mm), 0.047" (1.2mm)
Maximum Weld Thickness	Up to 5/16"
Item Weight	43 pounds
ASIN	B00K1NQXD4
Date First Available	April 30, 2014

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact Voyager Tools customer service. Keep your purchase receipt and model number (VOY-155016) handy for faster assistance.
Visit the official Voyager Tools store for more information: Voyager Tools Store

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