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RILAND MIG100E

RILAND MIG100E 135A Flux Core MIG/Lift TIG 2-in-1 Welding Machine User Manual

Comprehensive instruction manual for the RILAND MIG100E 135A 2-in-1 welding machine, covering setup, operation, maintenance, troubleshooting, specifications, and warranty information for flux core MIG and Lift TIG welding.

Brand: RILAND | **Model:** MIG100E (135A)

1. PRODUCT OVERVIEW

The RILAND MIG100E 135A is a versatile 2-in-1 welding machine designed for both flux core MIG and Lift TIG welding. It features synergic control for automatic adjustment of welding parameters, making it suitable for beginners. Its portable design with a shoulder strap allows for easy transport to various welding sites. The machine incorporates multiple safety protections including over-current, overload, overheating, and over-voltage protection to ensure durability and user safety.



Figure 1: RILAND MIG100E 135A Welding Machine. This image displays the compact blue and black welding unit with its attached MIG torch and ground clamp.

2. SETUP INSTRUCTIONS

2.1 Unboxing and Component Identification

Upon unboxing, verify all components are present: MIG100E Welder, MIG Torch, Ground Clamp, Electrode Holder, 0.030"/2lb Flux Cored Wire, conductive nozzles, Brush & Hammer, and User Manual. Familiarize yourself with each component before proceeding.

2.2 Wire Spool Installation

To install the flux cored wire spool:

1. Open the side door of the welding machine to access the wire spool compartment.
2. Place the wire spool onto the spindle, ensuring it rotates freely.

3. Secure the spool with the provided cotter pin.
4. Lead the flux cored wire through the wire guide tube and into the wire feed mechanism.
5. Depress the wire feed valve to ensure the wire is properly seated on the wire feed wheel.

AUTOMATIC WIRE FEEDING

Stable wire feeding without blockage or arc breakage



WELDING WIRES

Suitable for 1lb / 2lb / below 2lb

Flux Core MIG Wire

0.03-0.035inch / 0.8mm-0.9mm
Can hold 1kg/2.2lbs rolls of wire

Welding Thickness

0.04-0.14inch (MAX 0.2inch)
1-3.5mm

Figure 2: Automatic Wire Feeding Mechanism. This image shows the internal wire spool and feeding system of the RILAND MIG100E, highlighting the path of the welding wire.

Your browser does not support the video tag.

Video 1: RILAND MIG Welder Install Wire Step is Easy and Convenient. This video demonstrates the process of installing the welding wire spool and feeding the wire through the machine's mechanism.

2.3 Power Connection and Grounding

Connect the machine to a standard 110V/120V AC power outlet. Attach the ground clamp securely to the workpiece or welding table to ensure a proper electrical circuit. Ensure the welding gun is connected to the appropriate output terminal.

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Video 2: RILAND MIG Welder 110v is nice for beginners, easy to use. This video provides a general overview of the welder's setup and ease of use for beginners.

3. OPERATING INSTRUCTIONS

3.1 Synergic Control

The MIG100E features synergic control, which automatically adjusts the current and wire feed speed based on the selected wire diameter (0.030", 0.035", 0.040" flux core). Use the single dial on the front panel to select the material thickness or wire diameter, and the machine will optimize the welding parameters.



Figure 3: Synergic Control Dial. This image illustrates the single control dial on the RILAND MIG100E, used for selecting material thickness and automatically adjusting welding parameters.

3.2 Welding Modes

The machine supports two primary welding modes:

- **Flux Core Gasless MIG:** Ideal for general home maintenance, car repair, and DIY projects.
- **Lift TIG:** Provides precise welding for various applications.

3.3 Automatic Wire Feeding

The automatic wire feeding system ensures stable wire delivery without blockages or arc breakage, contributing to consistent weld quality.

Your browser does not support the video tag.

Video 3: RILAND MIG Welder MIG Welding Machine Automatic Wire Feed. This video demonstrates the automatic wire feeding capability of the RILAND MIG welder.

3.4 Safety Precautions

Always wear appropriate personal protective equipment (PPE) including welding gloves, a welding mask, and protective clothing. Ensure good ventilation in your work area. The machine is equipped with over-current, overload, overheating, and over-voltage protection for enhanced safety.



Figure 4: Safety Protection Features. This image highlights the safety features of the RILAND MIG100E, including overload, overcurrent, overheating, and electrostatic protection.

4. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your welding machine.

- **Cleaning:** Use the provided brush and hammer to remove slag and spatter from your welds and the welding gun. Keep the wire feed mechanism clean and free of debris.
- **Inspection:** Periodically inspect all cables, connections, and the welding gun for any signs of wear or damage. Replace worn parts immediately.
- **Storage:** Store the welding machine in a dry, clean environment when not in use.

5. TROUBLESHOOTING

If you encounter issues with your RILAND MIG100E, consider the following general troubleshooting steps:

- **No Power:** Ensure the power cable is securely plugged into a functional 110V/120V outlet. Check the machine's power indicator light.
- **Wire Feed Issues:** Verify the wire spool is correctly installed and the wire is properly threaded through the guide tube and feed mechanism. Check for any kinks or blockages in the wire. Ensure the wire feed valve is depressed correctly.
- **Poor Weld Quality:** Confirm the correct synergic control setting for your material thickness and wire diameter. Ensure a clean and secure ground connection. Check for proper contact between the welding gun tip and the workpiece.
- **Overheat/Overload:** If the machine's protection indicators activate, allow the unit to cool down. Ensure adequate ventilation around the machine.

For persistent issues, refer to the detailed user manual or contact customer support.

6. SPECIFICATIONS

Specification	Value
Manufacturer	RILAND
Item Weight	14.12 pounds
Product Dimensions	8.66 x 13.43 x 8.86 inches
Item model number	RILAND
Style	MIG100E pro
Power Source	ac/dc
Voltage	110 Volts
Included Components	Safety Gloves
Date First Available	February 16, 2023

7. WARRANTY AND SUPPORT

RILAND offers a refund within 30 days of purchase and a 2-year warranty for any product issues. For support or warranty claims, please contact the seller or manufacturer directly through their official channels.

