ANDELI MIG-250ME

ANDELI MIG Welder 135Apm Instruction Manual

Model: MIG-250ME | Brand: ANDELI

1. Introduction

The ANDELI MIG Welder 135Apm is a compact, portable, and versatile 3-in-1 multiprocess welding machine designed for Flux MIG, Lift TIG, and Stick welding. Its dual voltage capability (110V/220V) ensures adaptability to various power sources, making it ideal for both workshop and job site use. Featuring advanced IGBT inverter technology, this welder delivers a robust 135AMP output current with enhanced efficiency and reliability. The intuitive synergic design simplifies operation, allowing both beginners and experienced welders to achieve smooth and excellent welds.

2. Safety Information

Always prioritize safety when operating welding equipment. Ensure you wear appropriate personal protective equipment (PPE), including a welding helmet, gloves, and protective clothing. The ANDELI MIG Welder is equipped with automatic protection features for overheating and overload, which will shut down the machine if necessary to prevent damage. It also has an IP21 rating, indicating protection against solid objects larger than 12mm and vertically dripping water.

Image: Overview of the ANDELI MIG Welder's safety features, including overheating and overload protection, IP21 rating, and heat dissipation.

3. Product Overview and Components

The ANDELI MIG-250ME welder is designed for ease of use and portability. Below are the main components and their functions.

Included Components:

- ANDELI MIG Welder Unit
- MIG Welding Torch (Split Type)
- Ground Clamp
- Flux-cored Wire (Sample Spool)
- Stick Welding Rods (Sample)
- Additional MIG Tips
- Wire Brush and Slag Hammer
- Power Adapter (for dual voltage)
- Instruction Manual

Control Panel:

The front panel features intuitive controls for selecting welding modes and adjusting parameters.

Image: Detailed view of the control panel with labeled Current Knob, Voltage Knob, Mode Button, MIG Mode, Stick Mode, and LIFT TIG Mode indicators.

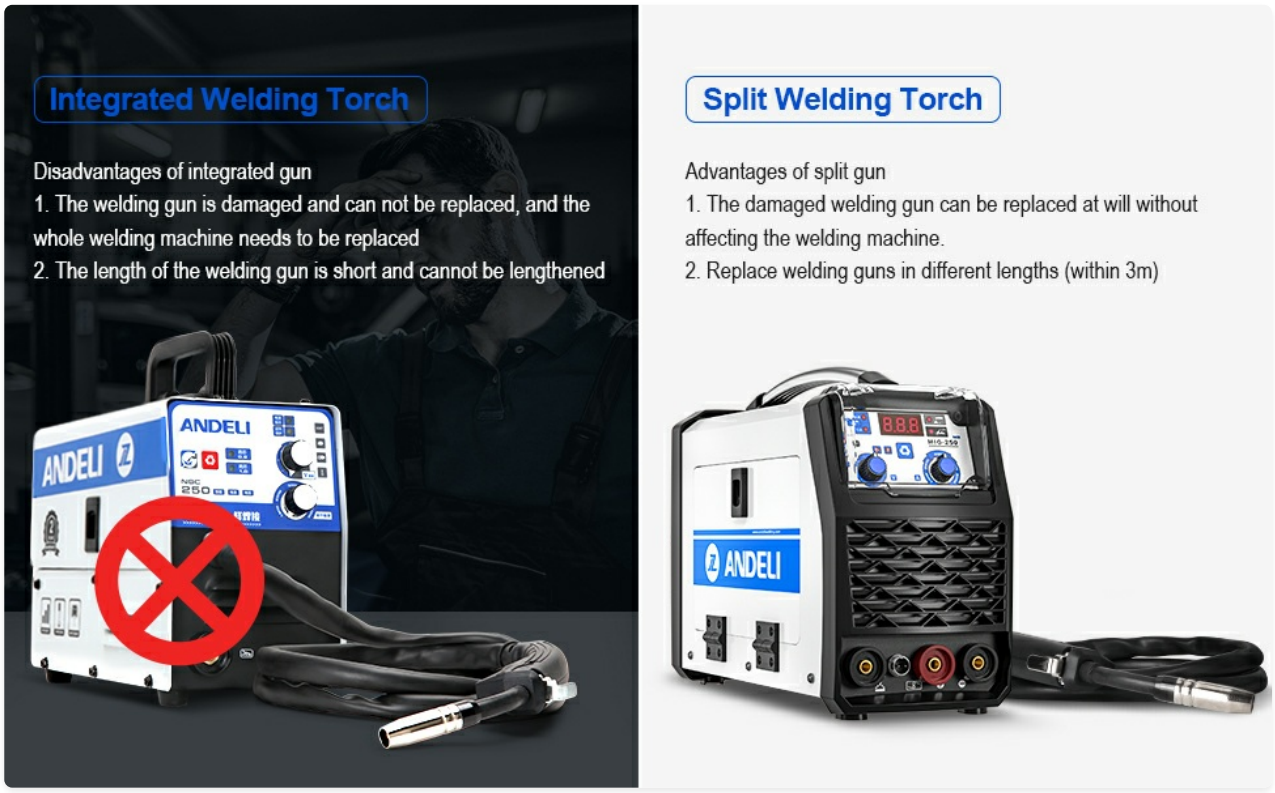

Image: Exploded view of the control panel highlighting the Selection Button, Voltage Knob, Current Knob, Power Indicator LED, and Thermal Protection LED.

4. Setup

Dual Voltage Connection:

The welder supports both 110V and 220V power inputs. Use the provided power adapter to connect to the appropriate outlet. The machine automatically senses the voltage.

Image: Illustration of the welder's dual voltage capability, showing compatibility with both 110V and 220V power sources.

Connecting Welding Torches and Clamps:

The welder features a split welding torch design, allowing for easy replacement of damaged guns without affecting the main unit. Connect the MIG welding torch and ground clamp as shown in the diagram.

Image: Diagrams illustrating the connection points for Flux MIG, MMA (Stick), and Lift TIG torches and clamps on the welder's front panel.

Image: Comparison showing the advantages of a split welding torch (replaceable, variable length) over an integrated torch.

Wire Reel Installation:

Open the side cover of the welder to access the wire reel compartment. Lift the press wheel, install the wire reel, and thread the wire through the feeder. Ensure the correct side of the press wheel (0.8mm or 1.0mm) is facing out based on your wire thickness.

Image: Diagram showing the wire reel compartment and the two sides of the press wheel for different wire gauges (0.8mm and 1.0mm).

Setup Demonstration Video:

Video: Official ANDELI demonstration of the MIG welder, including setup procedures and an overview of its features. This video is provided by the seller.

5. Operating Modes

The ANDELI MIG Welder supports multiple welding processes. Select the desired mode using the panel function key.

Image: Visual representation of the three main welding modes: MMA (Stick), LIFT TIG, and Flux-cored Welding.

Flux MIG Welding (Gasless):

This mode uses flux-cored wire, eliminating the need for an external gas cylinder. Adjust the wire feed speed and current using the respective knobs on the control panel. The synergic design simplifies settings for optimal performance.

Image: Depiction of flux-cored welding in action, emphasizing the gasless operation and suitability for iron and galvanized pipes.

Lift TIG Welding:

For Lift TIG welding, connect the appropriate TIG torch (sold separately). Adjust the current based on the plate thickness. The welder will automatically match the current for the selected thickness. Voltage adjustment is not required in this mode.

Stick Welding (MMA):

Connect the manual electrode holder. Similar to Lift TIG, only current adjustment is needed. Rotate the current knob to match the thickness of the plate you are welding. The voltage is automatically set.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your welder. Keep the machine clean and free from dust and debris. Periodically check and replace MIG tips as they can wear out, especially with high heat applications. Use the provided wire brush and slag hammer to clean welds before laying new beads.

7. Troubleshooting

Overcurrent Protection:

If the overcurrent protection light illuminates on the control panel, it indicates that the current has exceeded its safe range. Turn off the machine and wait a few minutes for it to cool down before resuming operation. This feature protects the internal components from damage.

8. Specifications

Feature	Detail
Manufacturer	ANDELI
Part Number	MIG-250MES
Item Weight	23.4 pounds
Product Dimensions	21.65 x 10.63 x 15.75 inches
Country of Origin	China
Item Model Number	MIG-250ME
Style	MIG SUIT
Power Source	DC
Item Package Quantity	1
Included Components	MIG Welder
Date First Available	February 16, 2022

9. Warranty and Support

The ANDELI MIG Welder comes with a two-year warranty. In case of any issues or for free guidance, please contact the efficient customer service team. Free replacement parts are provided as needed.

For further assistance, please refer to the contact information provided in your product packaging or visit the official ANDELI store online.

Visit the ANDELI Store for more products and support.