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RUBIK MIG200

RUBIK MIG200 Multi-Process Welder Instruction Manual

Model: MIG200 | Brand: RUBIK

Introduction Safety Information Package Contents Product Features Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This manual provides detailed instructions for the safe and effective operation, setup, and maintenance of your RUBIK MIG200 Multi-Process Welder. The MIG200 is a versatile 5-in-1 welding machine designed for various welding applications, including MMA STICK, Gas MIG, Gasless MIG, Lift TIG, and SYN welding. It features a large LED digital display for precise control and offers dual voltage compatibility (110V/220V).



Figure 1.1: The RUBIK MIG200 Multi-Process Welder with included components.

2. Safety Information

WARNING: Welding can be dangerous. Always follow safety precautions to prevent injury or death.

- **Electric Shock Can Kill:** Do not touch live electrical parts. Wear dry welding gloves and protective clothing. Insulate yourself from work and ground.
- **Fumes and Gases Can Be Dangerous:** Keep your head out of the fumes. Use ventilation or exhaust to remove fumes from the breathing zone.
- **Arc Rays Can Burn Eyes and Skin:** Wear a welding helmet with a proper shade of filter to protect your face and eyes. Wear appropriate protective clothing to protect your skin.
- **Fire and Explosion Hazard:** Remove all flammables within 35 feet (10 meters) of the welding area. Have a fire extinguisher nearby.
- **Hot Parts Can Cause Severe Burns:** Allow hot equipment to cool before touching. Wear insulated gloves and protective clothing.
- **Read the Manual:** Always read and understand the entire instruction manual before operating the welder.



Figure 2.1: Visual representation of key safety protection features including inductance adjustment, slow wire feeding, one-key operation, burn-back, overvoltage, overcurrent, overload, and overheating protection.

3. Package Contents

Upon unpacking, verify that all components listed below are present and undamaged. If any items are missing or

damaged, contact RUBIK customer support immediately.

- 1 x RUBIK MIG200 Welder Unit
- 1 x Electrode Holder with Cable
- 1 x Ground Clamp with Cable
- 1 x MIG Welding Gun (9.84 Ft / 3 m)
- 1 x 110V/220V Adapter
- 1 x Steel Brush
- 1 x Welding Helmet
- 1 x Drive Roller
- Contact Tips
- Gas Hose (if applicable to specific package)
- Power Line
- Gloves (if included in specific package)
- Instruction Manual (this document)



Figure 3.1: Detailed view of the RUBIK MIG200 welder and its complete accessory package.

4. Product Features

The RUBIK MIG200 is engineered with advanced features to provide a superior welding experience:

- **5-in-1 Welding Modes:** Offers MMA STICK, Gas MIG, Gasless MIG, Lift TIG, and SYN welding capabilities, providing versatility for various welding tasks and materials.
- **Large LCD Digital Display:** Equipped with a clear and intuitive LCD screen that simultaneously displays current and voltage, allowing for easy reading and precise monitoring of welding parameters in real-time.
- **IGBT Inverter Technology:** Utilizes advanced IGBT inverter technology for efficient energy conversion, reducing power consumption and ensuring stable, high-performance welding.
- **Digital Control Principles:** Enables precise adjustment of welding parameters for enhanced control and consistent weld quality.
- **Multi-functional Protection:** Integrates multiple safety features including inductance adjustment, slow wire feeding, one-key operation, burn-back function, overvoltage, overcurrent, overload, and overheat protection, ensuring equipment longevity and user safety.
- **Dual Voltage Compatibility:** Supports both 110V and 220V power inputs, making it adaptable to different power sources and work environments.
- **Wire Compatibility:** Capable of handling 0.8mm solid wire and 1.0/1.2mm flux-cored wire, suitable for welding various materials like aluminum, carbon steel, and more.



Figure 4.1: The five distinct welding processes supported by the MIG200.



Figure 4.2: The clear and accurate digital display for precise parameter control.

5. Setup

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

5.1 Power Connection

1. Ensure the welder's power switch is in the OFF position.
2. Connect the power cord to a suitable 110V or 220V AC power outlet, using the provided adapter if necessary. Verify the voltage setting on the machine matches your power supply.

5.2 Ground Clamp Connection

1. Attach the ground clamp cable to the designated ground terminal on the welder.
2. Securely attach the ground clamp to the workpiece or a clean, bare metal portion of the work table. Ensure good electrical contact.

5.3 Welding Gun/Torch Connection

1. Connect the MIG welding gun or appropriate torch (for Stick/TIG) to its respective terminal on the front panel of the welder.
2. For MIG welding, ensure the wire feed liner is correctly installed and the contact tip is appropriate for your wire size.

5.4 Wire Spool Installation (MIG/Flux Core)

1. Open the wire spool compartment.
2. Place the wire spool onto the spindle, ensuring it rotates freely.
3. Thread the welding wire through the drive roller mechanism and into the liner of the MIG gun. Adjust the drive roller tension appropriately for the wire type and size.

5.5 Gas Connection (Gas MIG/Lift TIG)

1. If using Gas MIG or Lift TIG, connect the gas hose from your shielding gas cylinder (with regulator) to the gas inlet on the welder.
2. Ensure all connections are tight to prevent gas leaks.



Figure 5.1: Illustration of wire spool and feed mechanism for MIG/Flux Core welding.

6. Operating Instructions

The RUBIK MIG200 offers multiple welding processes. Select the appropriate mode and adjust parameters for your specific application.

6.1 Mode Selection

Use the control panel to select one of the following welding modes:

- **MMA STICK:** For shielded metal arc welding with stick electrodes.
- **GAS MIG (GMAW):** For gas metal arc welding with shielding gas.
- **GASLESS MIG (FCAW):** For flux-cored arc welding without external shielding gas.
- **LIFT TIG:** For tungsten inert gas welding with lift arc ignition.
- **SYN:** Synchronous mode for simplified parameter setting.

6.2 Parameter Adjustment

The large LCD display allows for precise adjustment of welding parameters:

- **Current (Amperage):** Adjust based on material thickness and electrode/wire size.
- **Voltage:** Fine-tune for arc stability and bead profile, especially in MIG modes.
- **Wire Feed Speed (MIG/Flux Core):** Synchronized with current in SYN mode, or manually adjustable.
- **Inductance:** Adjusts arc stiffness and puddle fluidity.

6.3 Welding Process Overview

Refer to the specific welding process section in the full manual for detailed instructions on technique, material preparation, and safety for each mode.



Figure 6.1: Various welding setups demonstrating the versatility of the MIG200.

7. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your welder.

- **Daily/Before Use:**
  - Inspect all cables and connections for damage.
  - Check the condition of the welding gun/torch, contact tip, and electrodes.
  - Ensure proper ventilation around the machine.
- **Weekly/After Heavy Use:**
  - Clean the exterior of the machine with a dry cloth.
  - Use compressed air to blow out dust and debris from cooling vents.
  - Check and clean the wire feed rollers and liner (for MIG).

- **Monthly/Periodically:**
    - Inspect internal components for signs of wear or damage (only by qualified personnel).
    - Verify proper function of all controls and indicators.

CAUTION: Always disconnect the welder from the power supply before performing any maintenance or cleaning.

8. Troubleshooting

This section provides solutions to common issues. For problems not listed here, contact RUBIK customer support.

Problem	Possible Cause	Solution
Welder does not power on	No power supply; Power switch off; Internal fuse blown	Check power outlet and circuit breaker; Turn power switch ON; Contact service for fuse replacement.
No arc/Poor arc stability	Poor ground connection; Incorrect parameters; Contaminated workpiece; Worn contact tip/electrode	Ensure good ground contact; Adjust current/voltage; Clean workpiece; Replace worn parts.
Wire feed issues (MIG)	Incorrect drive roller tension; Kinked liner; Wrong wire size; Clogged contact tip	Adjust tension; Inspect/replace liner; Use correct wire; Clean/replace contact tip.
Overheat protection activated	Exceeded duty cycle; Insufficient ventilation; Blocked air vents	Allow welder to cool down; Ensure adequate airflow; Clear any obstructions from vents.

9. Specifications

Key technical specifications for the RUBIK MIG200 Welder:

Attribute	Value
Manufacturer	RUBIK
Model Number	RK04002-01
Item Weight	26.6 pounds
Product Dimensions	18.11 x 8.66 x 15.35 inches
Style	MIG200
Color	Black+orange
Material	ABS, Iron
Power Source	AC
Voltage	110V/220V (AC)
Welding Modes	MMA STICK, Gas MIG, Gasless MIG, Lift TIG, SYN

Attribute	Value
Included Components	Electrode Holder, Ground Clamp, MIG Welding Gun, Steel brush, Welding Helmet

10. Warranty & Support

RUBIK welders are designed for durability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official RUBIK website.

10.1 Protection Plans

Extended protection plans may be available for purchase to cover your investment beyond the standard manufacturer's warranty. Options may include:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly subscription covering multiple eligible purchases)

Please check the product listing or contact your retailer for current protection plan availability and terms.

10.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact RUBIK customer support through the following channels:

- **Online:** Visit the official RUBIK store on Amazon:RUBIK Store
- **Email:** Refer to your product packaging or warranty card for direct email support.
- **Phone:** Refer to your product packaging or warranty card for phone support details.

When contacting support, please have your product model (MIG200) and serial number (if applicable) ready.

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