RUBIK MMCT200

RUBIK MMCT 200 Multiprocess Welding Machine User Manual

Model: MMCT200 | Brand: RUBIK

Introduction

The RUBIK MMCT 200 is a versatile 7-in-1 multiprocess welding and cutting machine designed for both professional and DIY applications. It supports HF TIG, MMA STICK, Gas MIG, Flux Core MIG, Plasma Cutting, Spot Welding, and SYN functions, allowing it to work with various materials such as aluminum, iron, and stainless steel. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your MMCT 200 machine.



The RUBIK MMCT 200 Multiprocess Welding Machine with all included accessories.

Safety Information

Always prioritize safety when operating welding and cutting equipment. Read and understand all safety warnings and instructions before use. Failure to do so may result in serious injury or property damage.

General Safety Precautions:

- Ensure proper ventilation in the work area to avoid inhaling fumes.
- Wear appropriate personal protective equipment (PPE), including welding helmet, gloves, protective clothing, and safety shoes.
- Never operate the machine in wet conditions or near flammable materials.
- Ensure the machine is properly grounded.
- Disconnect power before performing any maintenance or adjustments.

Intelligent Protection Features:

The MMCT 200 is equipped with advanced safety systems to protect both the operator and the machine:

- **Overcurrent Protection:** Automatically shuts down if current exceeds safe limits.
- **Overheating Protection:** Prevents damage from excessive heat buildup during prolonged operation.
- **Overload Protection:** Safeguards against electrical overload conditions.
- **Short Circuit Protection:** Detects and prevents damage from short circuits.
- **VRD (Voltage Reduction Device):** Reduces open-circuit voltage for increased safety in MMA/Stick mode.
- **Anti-Stick:** Prevents the electrode from sticking to the workpiece.
- **Arc Force:** Provides additional current during short arc lengths to prevent sticking.
- **Hot Start:** Increases current at the beginning of welding for easier arc ignition.



Diagram illustrating the intelligent safety features of the welder, such as overcurrent, overheating, energy saving, VRD, anti-stick, arc force, hot start, and 2T/4T modes.

Package Contents

Upon unpacking, please verify that all the following components are included in your package:

- 1 x Multiprocess Welding Machine-200A 7 in 1 Welder
- 1 x Ground wire clamp
- 1 x Welding clamp
- 1 x Argon arc welding gun
- 1 x Gas shielded welding gun
- 1 x Cutting welding gun
- 1 x Air pipe
- 1 x Air pressure regulating valve
- 1 x Gloves
- 1 x Instruction manual
- 1 x Warranty card



Contents of the product package, including the multi-process welder, ground clamp, welding clamp, English manual, welding torch, air hose, air regulator, cutting gun, TIG welding torch, gas torch, gloves, and 220V adapter.

Setup

Power Connection:

The MMCT 200 supports dual voltage (110V/220V). Connect the power cord to an appropriate power outlet. Ensure the power source matches the machine's requirements and is capable of handling the necessary current.

Component Connection:

Connect the appropriate welding or cutting accessories based on the desired process. Refer to the diagrams below for correct connections.

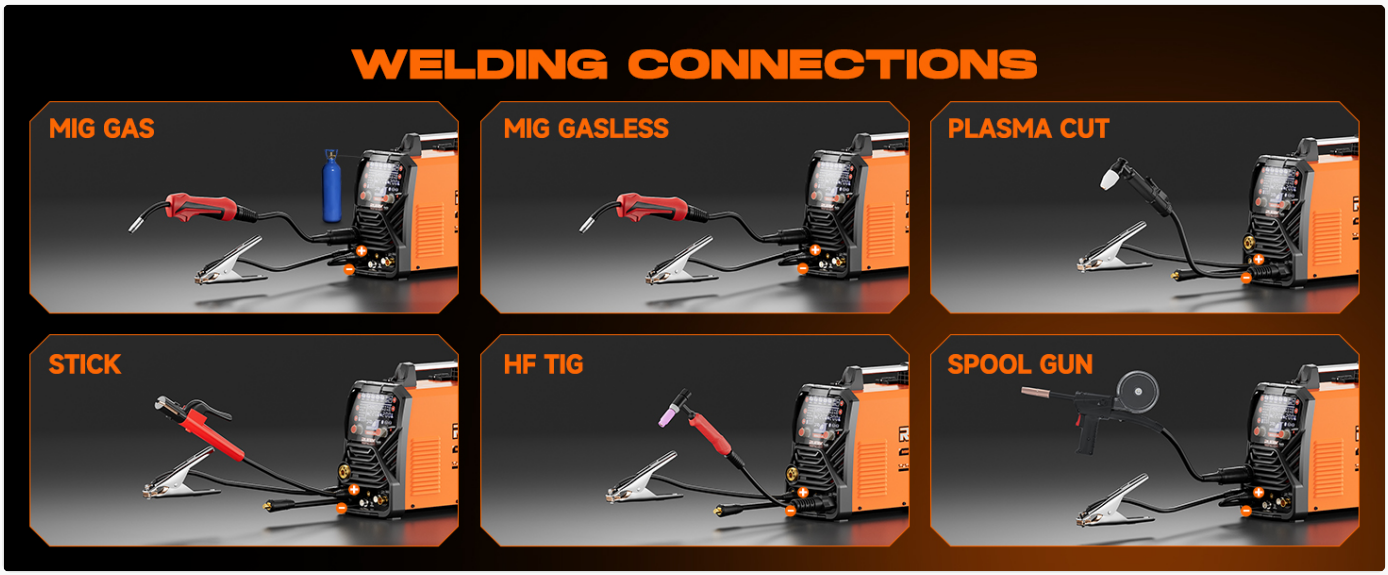


Diagram detailing the various controls and connection points on the RUBIK MMCT 200, including voltage and current regulation, gun connectors, and power inputs.

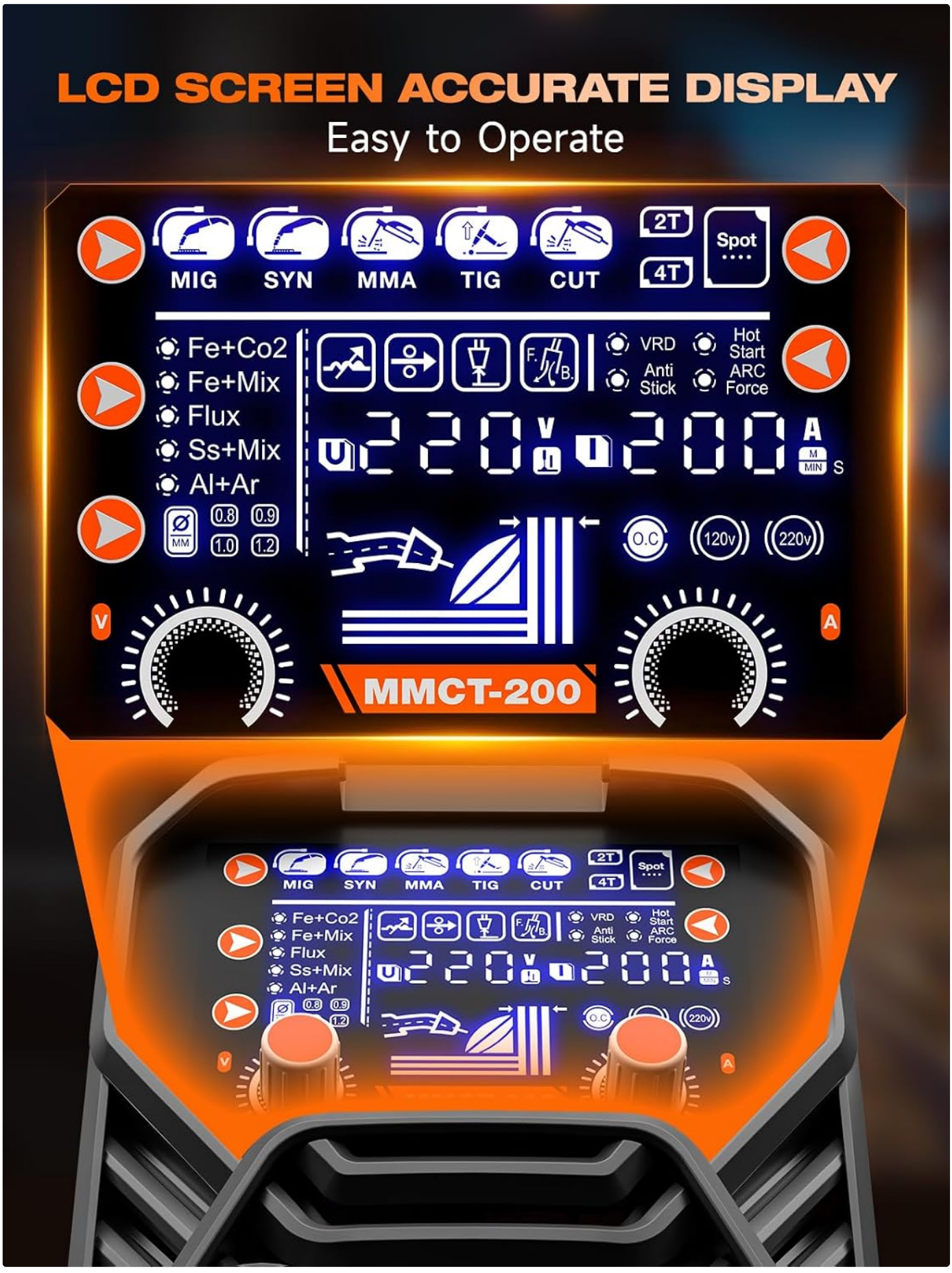


Illustrations demonstrating how to connect the machine for different welding processes: MIG Gas, MIG Gasless, Plasma Cut, Stick, HF TIG, and Spool Gun.

Operating Instructions

Control Panel Overview:

The MMCT 200 features a large LCD display for intuitive operation. All settings and real-time data are clearly visible.



Detailed view of the large LCD display, showing various settings and real-time operational data for precise control.

Selecting Welding Modes:

Use the control knobs and buttons on the front panel to select your desired welding or cutting mode (MIG, SYN, MMA, TIG, CUT). The selected mode will be indicated on the LCD screen.

Adjusting Parameters:

Adjust current, voltage, and other parameters using the dedicated control knobs. The LCD screen provides real-time feedback on your adjustments, allowing for precise control and optimal welding results.



Overview of the 7-in-1 welding and cutting functions, including Plasma Cut, HF TIG, Stick, MIG Gas, Flux Core MIG, SYN, and Spot welding.

Maintenance

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

Cleaning:

- Periodically clean the machine's exterior with a dry, soft cloth.
- Use compressed air to blow out dust and debris from the cooling vents and internal components. Ensure the machine is unplugged before cleaning.
- Clean welding gun nozzles and contact tips regularly to prevent spatter buildup.

Storage:

- Store the machine in a dry, dust-free environment.
- Protect it from extreme temperatures and humidity.
- Keep all cables and accessories neatly coiled and stored to prevent damage.

Regular Checks:

- Inspect power cords and welding cables for any signs of damage (cuts, fraying). Replace if necessary.
- Check all connections to ensure they are secure.
- Monitor the cooling fan for proper operation.

Troubleshooting

This section provides solutions to common issues you might encounter. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
Machine does not power on	No power supply; Power switch off; Faulty power cord	Check power outlet and circuit breaker; Turn on power switch; Inspect and replace power cord if damaged
No arc ignition	Improper grounding; Incorrect settings; Dirty workpiece; Worn electrode/tip	Ensure ground clamp is securely attached to clean metal; Adjust current/voltage; Clean workpiece surface; Replace electrode/tip
Wire feeding issues (MIG/Flux Core)	Incorrect wire tension; Clogged liner; Worn drive roller; Wrong drive roller size	Adjust wire tension; Clean or replace liner; Replace drive roller; Ensure correct drive roller for wire size
Overheat indicator on	Prolonged use; Blocked ventilation; High ambient temperature	Allow machine to cool down; Clear any obstructions from vents; Operate in a cooler environment

Specifications

Detailed technical specifications for the RUBIK MMCT 200 Multiprocess Welding Machine:

Feature	Detail
Model Number	MMCT200
Manufacturer	RUBIK
Power Source	AC
Voltage	110V/220V Dual Voltage
Wattage	44 KW
Item Weight	26.6 pounds
Package Dimensions	25.23 x 18.7 x 13.58 inches
Material	Aluminum, ABS
Color	Orange+black
Cooling Way	Wind



Technical specifications and dimensions of the RUBIK MMCT 200 Multiprocess Welding Machine, including input voltage, current ranges, and cooling method.

Warranty and Support

Your RUBIK MMCT 200 Multiprocess Welding Machine comes with a manufacturer's warranty. Please refer to the included warranty card for specific terms and conditions, including coverage period and what is covered.
For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact RUBIK customer support. Contact information can typically be found on the warranty card or the official RUBIK website.
Customer Service: For prompt assistance, please have your model number (MMCT200) and purchase date ready when contacting support.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question