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Kemppi MinarcMig Evo 200

Kemppi MinarcMig Evo 200 Welding Inverter User Manual

Model: MinarcMig Evo 200

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your Kemppi MinarcMig Evo 200 welding inverter. Please read this manual thoroughly before using the equipment to ensure proper function and to prevent injury or damage.

Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including welding helmet, gloves, and protective clothing.
- Ensure adequate ventilation in the welding area to disperse fumes.
- Do not operate the machine in damp or wet conditions.
- Disconnect power before performing any maintenance or adjustments.
- Keep children and unauthorized personnel away from the welding area.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- Kemppi MinarcMig Evo 200 Power Source (single-phase)
- Ground Cable (16 mm², 3 meters)
- Kemppi MMG 22 Welding Torch (3 meters)
- Gas Hose
- Shoulder Strap
- Power Cord
- User Manual

3. PRODUCT OVERVIEW

The Kemppi MinarcMig Evo 200 is a portable and compact MIG/MAG welding inverter designed for mobile and adaptive welding operations. It features both automatic and manual modes for versatile use.



Figure 3.1: Front view of the Kemppi MinarcMig Evo 200 welding inverter, showing the control panel, torch connection, and ground clamp connection.



Figure 3.2: Side view of the Kemppi MinarcMig Evo 200 with the wire spool compartment open, revealing the internal wire feeder mechanism.



Figure 3.3: Close-up of the control panel, displaying the digital screen, adjustment knobs, and mode selection buttons for automatic and manual operation, material type, and gas settings.

Control Panel Features

- **Digital Display:** Shows welding parameters such as wire feed speed, voltage, and current.
- **Adjustment Knobs:** For fine-tuning welding parameters.
- **Automatic/Manual Mode Button:** Toggles between pre-set and user-defined settings.
- **Material Selection Button:** Allows selection of different welding materials (e.g., steel, stainless steel, aluminum).
- **Gas Type Selection:** For selecting appropriate shielding gas (e.g., CO₂, Ar/CO₂, Ar).

4. SETUP

1. **Positioning the Machine:** Place the welding inverter on a stable, level surface, ensuring adequate air circulation around the unit.
2. **Connecting the Ground Cable:** Attach the ground clamp to the workpiece, ensuring a clean, secure electrical connection. Connect the other end of the ground cable to the designated terminal on the front panel of the welding machine.
3. **Connecting the Welding Torch:** Insert the Kemppi MMG 22 welding torch connector into the corresponding receptacle on the front of the machine. Secure it by tightening the locking mechanism.
4. **Installing the Welding Wire Spool:** Open the side compartment of the machine (refer to Figure 3.2). Place the appropriate welding wire spool onto the spindle, ensuring it rotates freely. Feed the wire through the guide tube and into the wire feeder mechanism. Close the compartment securely.
5. **Connecting the Gas Hose:** Connect one end of the gas hose to the gas inlet on the rear of the welding machine and the other end to your shielding gas cylinder regulator. Ensure all connections are tight to prevent gas leaks.

6. **Power Connection:** Connect the power cord to a suitable single-phase power outlet. Ensure the power supply matches the machine's requirements (230V, 50/60Hz).

5. OPERATING INSTRUCTIONS

1. **Power On:** Turn on the main power switch, usually located on the rear or front panel of the machine. The digital display will illuminate.
2. **Select Welding Mode:**
 - **Automatic Mode:** Press the "Automatic/Manual" button to select automatic mode. The machine will suggest optimal parameters based on material and wire diameter.
 - **Manual Mode:** Press the "Automatic/Manual" button to select manual mode. You can then adjust wire feed speed and voltage independently using the control knobs.
3. **Select Material and Gas:** Use the respective buttons to select the type of material you are welding (e.g., Fe for steel, Al for aluminum) and the appropriate shielding gas (e.g., CO2, Ar/CO2).
4. **Adjust Parameters:** In manual mode, or to fine-tune in automatic mode, use the adjustment knobs to set the desired wire feed speed and welding voltage. Refer to welding charts for recommended settings for your specific application.
5. **Prepare for Welding:** Ensure your workpiece is clean and properly grounded. Position the welding torch correctly.
6. **Start Welding:** Press the torch trigger to initiate the arc and begin welding. Maintain a consistent travel speed and arc length for optimal results.
7. **Power Off:** After welding, release the torch trigger, then turn off the main power switch. Close the gas cylinder valve.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Kemppi MinarcMig Evo 200.

- **Daily:**

- Inspect the welding torch for wear on the contact tip, gas nozzle, and liner. Replace worn parts as necessary.
- Check all cable connections for tightness and damage.
- Clean the exterior of the machine with a dry cloth.

- **Weekly/Monthly (depending on usage):**

- Clean the wire feeder rollers to prevent wire slippage.
- Check the gas hose for leaks using a leak detection spray.
- Inspect the ground clamp for good contact.

- **Periodically:**

- Have the machine inspected by a qualified service technician.
- Clean internal components using compressed air, ensuring power is disconnected.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Machine does not power on.	No power supply; tripped circuit breaker; faulty power cord.	Check power outlet and circuit breaker. Inspect power cord for damage.
No arc when trigger is pressed.	Poor ground connection; incorrect torch connection; no wire feed; wrong settings.	Ensure ground clamp is secure. Check torch connection. Verify wire is feeding. Adjust settings.

Problem	Possible Cause	Solution
Wire not feeding.	Wire spool tangled; clogged liner; worn contact tip; incorrect roller tension.	Untangle wire. Clean/replace liner. Replace contact tip. Adjust roller tension.
No gas flow.	Gas cylinder empty; valve closed; hose kinked/leaking; faulty regulator.	Check gas cylinder level and open valve. Inspect hose. Check regulator.
Poor weld quality.	Incorrect settings; improper technique; contaminated workpiece; wrong gas.	Adjust voltage/wire speed. Review welding technique. Clean workpiece. Verify gas type.

8. SPECIFICATIONS

Feature	Detail
Manufacturer	Kemppi
Model	MinarcMig Evo 200
ASIN	B07PMS845F
Color	Green One
Power Source Type	Single-phase Inverter
Welding Process	MIG/MAG
Date First Available	January 15, 2020

9. WARRANTY AND SUPPORT

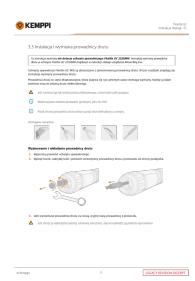
For warranty information and technical support, please refer to the official Kemppi website or contact your authorized Kemppi dealer. Keep your purchase receipt as proof of purchase for warranty claims.

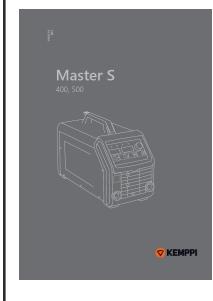
Online Resources: Visit the official Kemppi website for product updates, additional manuals, and support resources.

Customer Service: If you require assistance with troubleshooting or repairs, please contact Kemppi customer service or an authorized service center.

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Related Documents - MinarcMig Evo 200

	<p>Kemppi Flexlite GC Welding Torch - Wire Liner Installation and Replacement Guide</p> <p>A detailed guide for installing and replacing the wire liner in Kemppi Flexlite GC welding torches. Covers steps for steel spiral and DL Chili liners, including required tools and safety precautions.</p>
	<p>Kemppi MinarcMig 190/220 AUTO User Manual</p> <p>Comprehensive user manual for the Kemppi MinarcMig 190 AUTO and 220 AUTO MIG/MAG welding machines, covering operation, maintenance, safety, and technical specifications.</p>
	<p>Kemppi MasterTig MLS 2300 ACDC Operating Manual</p> <p>Comprehensive operating manual for the Kemppi MasterTig MLS 2300 ACDC welding machine, covering installation, usage, maintenance, troubleshooting, and technical specifications. This manual provides detailed instructions for professional TIG and MMA welding applications.</p>
	<p>Kemppi MasterTig MLS 2300 ACDC Operating Manual</p> <p>This operating manual provides comprehensive instructions for the Kemppi MasterTig MLS 2300 ACDC welding machine. It covers installation, operation, welding processes (MMA, TIG AC/DC, pulsed TIG), control panel functions, maintenance, troubleshooting, order numbers, and technical specifications.</p>
	<p>KEMPOTIG 50 Welding Machine Operation Manual</p> <p>Official operation manual for the KEMPPI KEMPOTIG 50 welding machine, detailing controls, connections, technical specifications, operating modes, safety procedures, and warranty information. Includes multilingual support.</p>



[Kemppi Master S 400/500 Welding Machine User Manual](#)

This user manual provides comprehensive instructions for the operation, maintenance, safety, and troubleshooting of the Kemppi Master S 400 and 500 welding machines, covering MMA, TIG, and carbon arc gouging processes.