



[Manuals.plus](#) /

› [DEKOPRO](#) /

› DEKO Digital 200A MIG/MMA Welder Instruction Manual

DEKOPRO 1

DEKO Digital 200A MIG/MMA Welder Instruction Manual

Model: 1 | Brand: DEKOPRO

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your DEKO Digital 200A MIG/MMA Welder. Please read this manual thoroughly before operating the machine to ensure proper use, maximize performance, and prevent injury or damage.



Figure 1.1: DEKO Digital 200A MIG/MMA Welder and standard accessories including wire brush, earthing cable, electrode holder, and welding gun.

2. SAFETY INFORMATION

Always prioritize safety when operating welding equipment. Failure to follow safety guidelines can result in serious injury or death.

2.1 General Safety Precautions

- Ensure the welding area is well-ventilated to avoid inhaling fumes.
- Wear appropriate personal protective equipment (PPE), including a welding helmet with proper shade, flame-resistant clothing, welding gloves, and safety shoes.
- Keep a fire extinguisher readily available.
- Do not operate the welder in damp or wet conditions.

2.2 Electrical Safety

- Connect the welder to a properly grounded power supply.
- Inspect power cords and welding cables for damage before each use. Replace if damaged.
- The machine features **VRD (Voltage Reduction Device)**, which lowers the no-load voltage to enhance safety during operation.

2.3 Overheating Protection

The DEKO Digital 200A Welder is equipped with an **overheating protection system**. If the machine exceeds its specified duty cycle or operating temperature, it will automatically shut down to prevent damage. Allow the machine to cool down before resuming operation.

3. PRODUCT FEATURES

The DEKO Digital 200A Welder incorporates advanced technology for versatile and efficient welding.

3.1 Multi-Functional Welding Modes

This SYNERGIC welder supports multiple welding processes, making it suitable for a wide range of applications:

- **Gas MIG:** Gas Metal Arc Welding with shielding gas.
- **Flux Core MIG:** Gasless Flux-Cored Arc Welding.
- **Lift TIG:** Lift Tungsten Inert Gas Welding (TIG torch not included).
- **MMA (Stick):** Manual Metal Arc Welding.
- **Gas Free MIG:** Similar to Flux Core MIG, indicating operation without external shielding gas.

5 IN 1 MULTI-FUNCTION WELDING MACHINE



Figure 3.1: Supported Welding Modes.

3.2 Dual Voltage Capability

The welder is designed to operate on both 110V and 220V power supplies, offering flexibility for various work environments.

- **110V:** Suitable for lightweight work and home use.
- **220V:** Ideal for construction site work and heavier duty applications.

DUAL VOLTAGE



Figure 3.2: Dual Voltage Operation.

3.3 IGBT Inverter Technology

Equipped with **IGBT (Insulated Gate Bipolar Transistor) intelligent inverter technology**, this welder offers improved reliability, higher efficiency, and reduced energy loss, resulting in superior welding performance.

3.4 Strong Heat Dissipation

The machine features an efficient cooling system designed for strong heat dissipation, preventing overheating and ensuring continuous operation for extended periods of welding.

STRONG HEAT DISSIPATION

It won't overheat or shut down for long periods of soldering



Figure 3.3: Heat Dissipation System.

3.5 Applicable Materials

The DEKO Digital 200A Welder is capable of welding a wide range of metal materials, including:

- Cast Iron
- Mild Steel
- Sheet Metal
- Stainless Steel

- Square Pipe
- Metal Cage



Figure 3.4: Wide Range of Weldable Metals.

4. SETUP

4.1 Unpacking and Inspection

1. Carefully remove the welder and all accessories from the packaging.
2. Inspect the machine and accessories for any signs of shipping damage. If damage is found, contact your supplier immediately.
3. Verify that all components listed in the packing list are present.

ACCESSORIES

- 1 Earthing Cable
- 2 Electrode Holder
- 3 Vent Hose
- 4 Welding Gun
- 5 Power Conversion Line
- 6 Wire Brush



Figure 4.1: Included Accessories.

4.2 Connecting Power

1. Ensure the welder's power switch is in the OFF position.
2. Connect the power conversion line if switching between 110V and 220V.
3. Plug the power cord into a suitable, grounded electrical outlet.

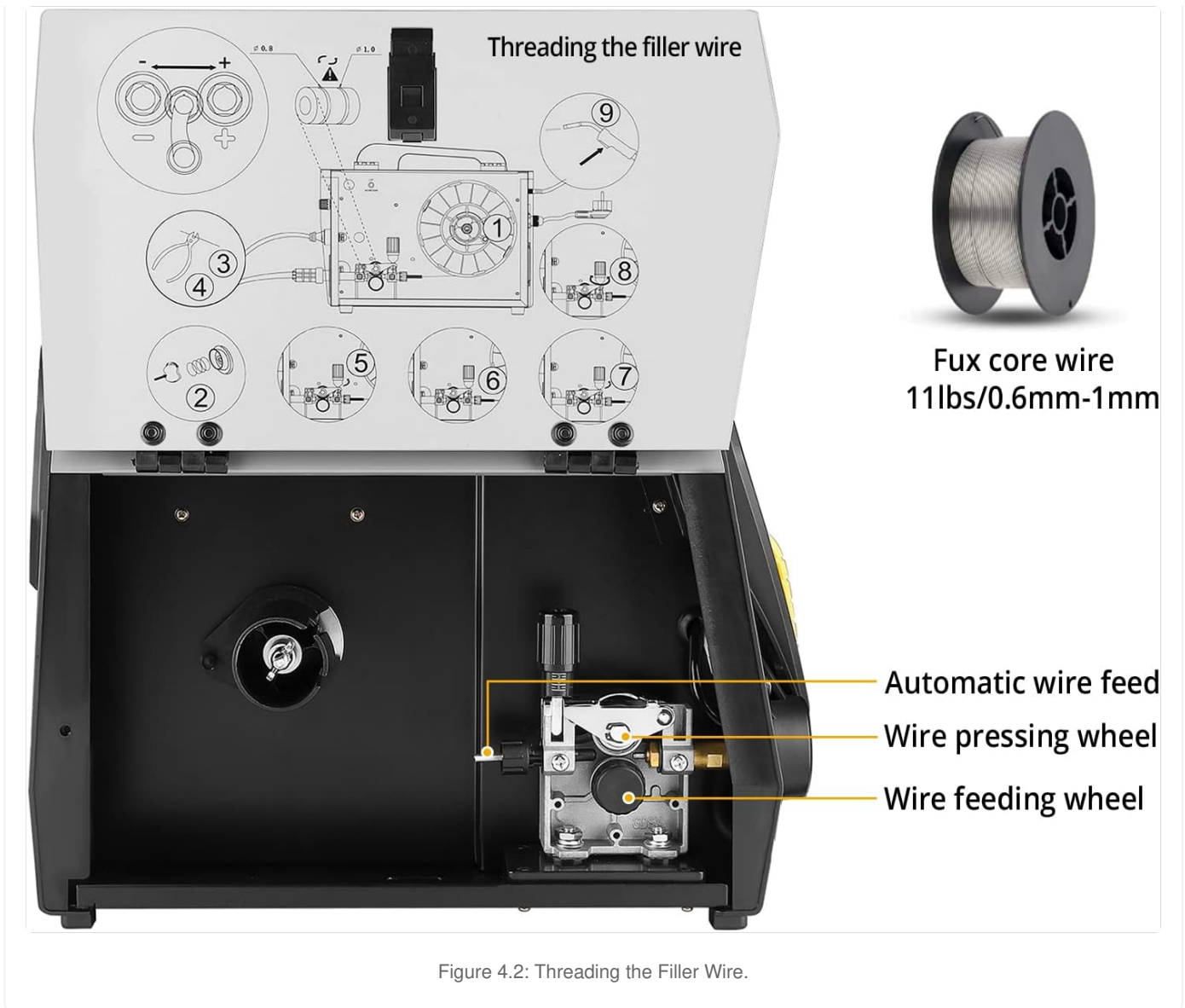
4.3 Connecting Welding Accessories

- **Earthing Cable:** Connect the earthing clamp to the workpiece or welding table to ensure a good electrical ground.
- **Electrode Holder (for MMA):** Connect the electrode holder cable to the positive (+) terminal for most stick welding applications.
- **Welding Gun (for MIG/TIG):** Connect the welding gun cable to the appropriate terminal (usually positive for MIG with solid wire, negative for flux-cored).

4.4 Wire Installation (for MIG/Flux Core)

Follow these steps to install the welding wire:

1. Open the wire feed compartment.
2. Place the wire spool onto the spindle, ensuring it rotates freely.
3. Thread the wire through the wire feeding wheel and wire pressing wheel.
4. Close the wire pressing wheel to secure the wire.
5. Feed the wire into the welding gun liner.
6. Use the 'Inching wire feeding key' on the control panel to feed the wire through the gun until it emerges from the contact tip.



5. OPERATING INSTRUCTIONS

5.1 Control Panel Functions

The digital control panel allows for precise adjustment of welding parameters. Refer to the diagram and table below for an overview of the panel functions:

Panel Functions



Front Panel		
No.	Name	Function
1	Voltage digital display meter	Display output voltage
2	Current digital display meter	Display preset current
3	Indicator lamp	Indicate current/voltage/wire feeding speed
4	Option key	Adjust current/voltage/wire feeding speed
5	Adjusting knob	Adjust various parameters
6	Inching wire feeding key	Feed wire by inching
7	Parameter key	Switch function key
8	Welding wire key	Select welding wire
9	Gas key	Select gas
10	Process key	Switch gas shielded welding/uniform/manual welding/simple argon arc welding

Figure 5.1: Front Panel Layout and Functions.

Table 5.1: Front Panel Functions

No.	Name	Function
1	Voltage digital display meter	Display output voltage
2	Current digital display meter	Display preset current

No.	Name	Function
3	Indicator lamp	Indicate current/voltage/wire feeding speed
4	Option key	Adjust current/voltage/wire feeding speed
5	Adjusting knob	Adjust various parameters
6	Inching wire feeding key	Feed wire by inching
7	Parameter key	Switch function key
8	Welding wire key	Select welding wire
9	Gas key	Select gas
10	Process key	Switch gas shielded welding/uniform/manual welding/simple argon arc welding

5.2 Selecting Welding Mode

Use the **Process key (10)** to cycle through the available welding modes (Gas MIG, Flux Core MIG, MMA, Lift TIG). The selected mode will be indicated on the digital display.

5.3 Adjusting Parameters

Once a welding mode is selected, use the **Option key (4)** and **Adjusting knob (5)** to set the desired welding parameters:

- **Voltage:** Adjust for arc length and bead profile.
- **Current (Amperage):** Controls the heat input and penetration.
- **Wire Feeding Speed:** Synchronized with voltage for optimal MIG welding.

The digital displays (1 and 2) will show the current voltage and preset current values.

5.4 Welding Process

After setting up the machine and parameters:

1. Ensure proper grounding of the workpiece.
2. Position yourself safely with appropriate PPE.
3. Initiate the arc according to the selected welding process (e.g., trigger for MIG, striking for MMA).
4. Maintain a consistent travel speed and arc length for a quality weld.

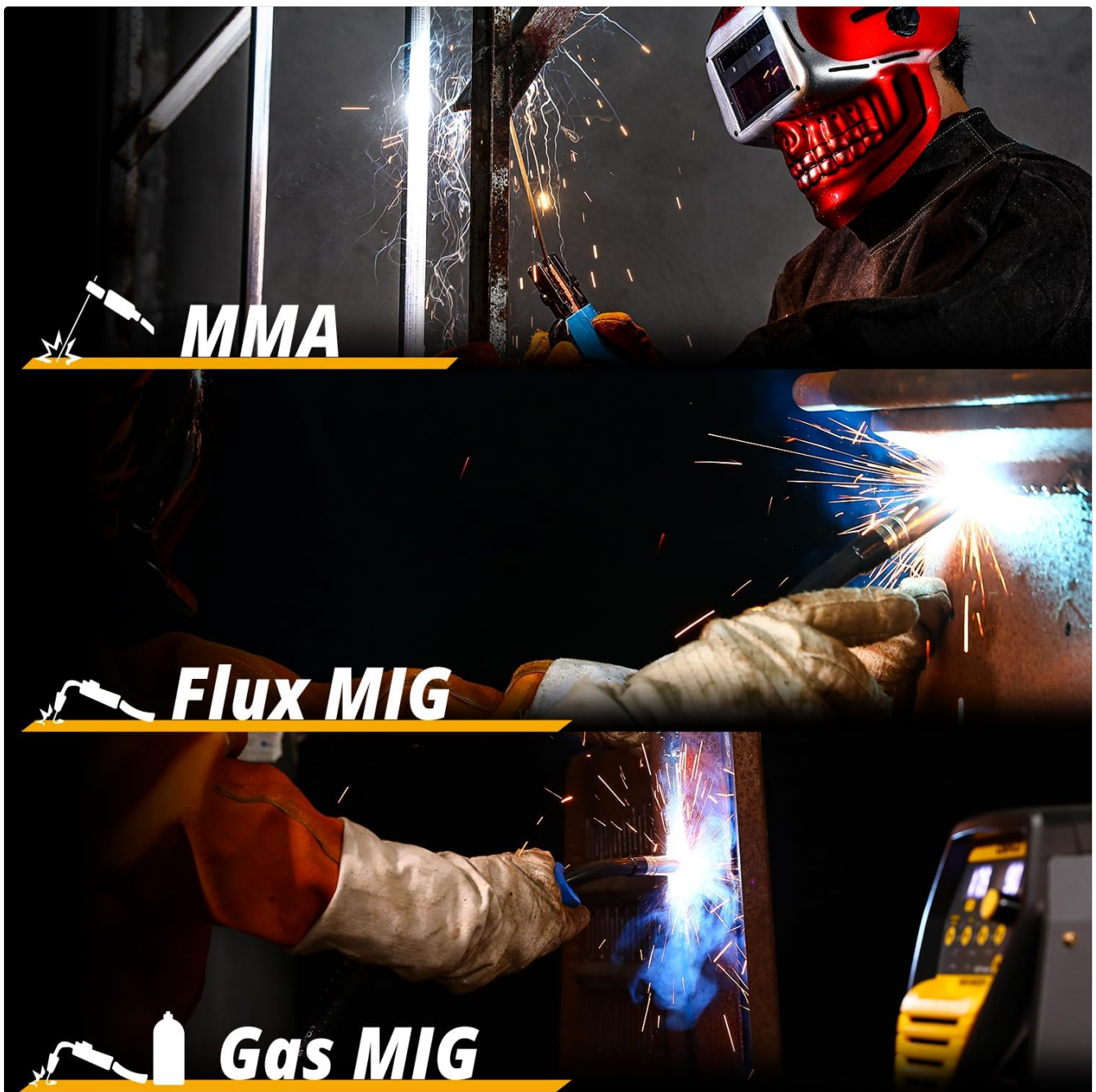


Figure 5.2: Welding in Action (MMA, Flux MIG, Gas MIG).

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your welder.

- **Cleaning:** Periodically clean the exterior of the machine with a dry cloth. Use compressed air to clear dust from internal components, ensuring the machine is unplugged.
- **Wire Feed System:** Inspect the wire feeding wheel and liner for wear or blockages. Clean or replace as necessary to ensure smooth wire feeding.
- **Cables and Connections:** Regularly check all welding cables, power cords, and connections for damage, fraying, or loose fittings. Repair or replace any damaged parts.
- **Contact Tip and Nozzle:** For MIG welding, regularly clean or replace the contact tip and nozzle to prevent spatter buildup and ensure good electrical contact.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Table 7.1: Common Troubleshooting Guide

Problem	Possible Cause	Solution
Welder does not power on	No power supply; Power switch off; Faulty power cord	Check power outlet; Turn on power switch; Inspect and replace power cord if damaged
No arc or weak arc	Poor ground connection; Incorrect settings; Damaged electrode/wire; Overheating protection active	Ensure good ground contact; Adjust current/voltage; Replace electrode/wire; Allow machine to cool down
Wire feeding issues (MIG)	Wire tangled; Clogged liner; Worn contact tip; Incorrect wire tension	Untangle wire; Clean/replace liner; Replace contact tip; Adjust wire tension on spool
Excessive spatter	Incorrect voltage/wire speed; Insufficient shielding gas (MIG); Dirty workpiece	Adjust parameters; Check gas flow/supply; Clean workpiece surface
Machine shuts down during operation	Overheating protection activated; Input voltage fluctuation	Allow machine to cool; Check power supply stability

8. SPECIFICATIONS

Technical specifications for the DEKO Digital 200A MIG/MMA Welder:

Table 8.1: Product Specifications

Attribute	Value
Manufacturer	DEKO
Part Number	1
Item Weight	34.1 pounds
Product Dimensions	5.91 x 5.91 x 5.91 inches
Size	200A
Style	200A
Material	Stainless Steel/Carbon Steel
Batteries Included?	No
Batteries Required?	No
Date First Available	May 25, 2022



Figure 8.1: Product Dimensions.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or contact DEKOPRO customer service through their official channels. Keep your purchase receipt as proof of purchase.