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Stayer MIG 200 MULTI

STAYER MIG 200 MULTI Welding Machine User Manual

Model: MIG 200 MULTI

INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your STAYER MIG 200 MULTI Welding Machine. Please read this manual thoroughly before using the equipment. The STAYER MIG 200 MULTI is a versatile electronic welding machine designed for MIG-MAG (flux-cored wire), TIG, and MMA (coated electrode) welding processes. It features robust construction and advanced functionalities to ensure high performance and reliability.

SAFETY INSTRUCTIONS

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

- Ensure proper ventilation in the work area to avoid inhaling welding fumes.
- Wear appropriate personal protective equipment (PPE), including a welding helmet with suitable shade, flame-resistant clothing, welding gloves, and safety shoes.
- Protect bystanders from arc rays and sparks. Use welding screens if necessary.
- Disconnect power before performing any maintenance or changing accessories.
- Do not operate the machine in damp or wet conditions.
- Ensure the machine is properly grounded.
- Keep flammable materials away from the welding area.
- Refer to local safety regulations and standards.

PRODUCT OVERVIEW

The STAYER MIG 200 MULTI is an Inverter Industrial MIG/MAG welding machine capable of 200A output. It supports multiple welding processes and is designed for professional use.



Figure 1: STAYER MIG 200 MULTI Welding Machine. This image shows the overall view of the welding machine, highlighting its compact design with four swivel wheels and an ergonomic carrying handle.

Key Features

- Multi-process capability: MIG-MAG (flux-cored wire), TIG, and MMA (coated electrode).
- Robust construction exceeding European specifications (2011/65/EU, 2014/35/EU, 2014/30/EU, EN/IEC 60974).
- Professional spool holder with capacity for large spools (up to 15 kg).
- Precise wire feed mechanism with a powerful 60W motor, supporting 0.8mm / 1.0mm wire.
- Easy adjustment with classic analog controls for precise current, voltage, and wire speed.
- Quick and easy polarity reversal for flux-cored wire welding.
- MMA mode includes Hot Start, Arc Force, and Anti Stick functions for optimized arc ignition, stability, and preventing electrode sticking.
- Lightweight and compact design with 4 swivel wheels and an ergonomic carrying handle for portability.
- Equipped for safe use with stabilized generators, AVR, and inverters.

SETUP

Unpacking and Inspection

Carefully unpack the welding machine and all accessories. Inspect for any signs of damage during transit. Report any damage to your supplier immediately.

Connecting the Welding Machine

1. **Power Connection:** Connect the machine to a suitable 220V power supply. Ensure the power outlet is properly grounded and can handle the machine's power requirements. The machine is designed for safe use with stabilized generators, AVR, and inverters.
2. **Ground Clamp Connection:** Attach the ground clamp cable to the workpiece. Ensure a clean, secure connection for optimal welding performance and safety.



Figure 2: Ground Clamp. This image displays the ground clamp and its cable, essential for establishing a proper electrical circuit during welding.

3. Welding Torch/Electrode Holder Connection:

- **MIG/MAG Welding:** Connect the MIG torch to the appropriate connector on the machine.
- **MMA Welding:** Connect the electrode holder to the positive (+) terminal and the ground clamp to the negative (-) terminal for most electrodes. Refer to electrode manufacturer specifications.
- **TIG Welding:** Connect the TIG torch (if included or purchased separately) to the appropriate connector.





Figure 3: MIG Welding Torch. This image shows the MIG welding torch, which includes the cable and connector for wire feeding

and gas delivery.



Figure 4: Electrode Holder. This image displays the electrode holder used for MMA (Stick) welding, designed to securely grip coated electrodes.

4. **Gas Connection (for MIG/MAG with shielding gas):** If using shielding gas, connect the gas hose from the regulator on your gas cylinder to the gas inlet on the welding machine.
5. **Wire Spool Installation (for MIG/MAG):** Open the wire spool compartment. Install a wire spool (up to 15 kg) of 0.8mm or 1.0mm wire. Thread the wire through the feed mechanism.



Figure 5: STAYER MIG 200 MULTI with Accessories. This image shows the welding machine connected with its torch and ground clamp, ready for operation.

OPERATING INSTRUCTIONS

Control Panel Overview



WELDING

**GAMA 60%
MIG 200 MULTI**

VENTAJAS

- Equipo electrónico para soldadura por hilo (MIG-MAG-hilo hueco), TIG y electrodo recubierto.
- Sólida construcción superando ampliamente las especificaciones europeas 2011/65/EU, 2014/35/EU, 2014/30/EU y EN/ IEC 60974.
- Nuevo portabobinas profesional con capacidad para bobinas grandes (15Kg).
- Mecanismo de arrastre de precisión con potente motor de 60W. Roldana de 0.8mm / 1.0mm.
- Fácil de regular: Controles analógicos clásicos para ajuste de precisión de corriente, tensión y velocidad de hilo.
- Sencilla y rápida inversión de polaridad para soldar con cualquier tipo de hilo hueco.
- Botón cebado de hilo para cómoda alimentación de la antorcha.
- Ligero y pequeño para sus prestaciones, 4 ruedas girables y mango de transporte ergonómico.
- El modo MMA (electrodo recubierto) incluye las ventajas Hot Start, Arc Force y Anti Stick para optimizar el cebado inicial del arco, mejorar su estabilidad durante el soldeo y evitar que el electrodo se pegue por mal manejo.
- Equipo completamente preparado para uso seguro con generadores estabilizados, AVR e Inverter.



**60%
DUTY CYCLE
EN 60974**

Fácil inversión de polaridad

Devanadora para bobinas grandes de 15 kg

Incluye Antorcha BINZEL 15AK

DOTACIÓN STANDARD

- Cable de alimentación / Cobre puro. 3m x 2,5mm²
- Cable de masa con pinza / Cobre puro. 3m x 25mm²
- Cable de electrodo con pinza / Cobre puro. 3m x 25mm²
- Devanadora externa 15kg
- Antorcha hilo BINZEL 15AK / 3m.
- Ruedas.

DATA SHEET

Intensidad	200 A
Hilo	0.6 - 1.0 mm
Electrodo	5 mm
Peso	22 kg
Alimentación	230 V
Generador	6 KVA
Dimensiones	23 x 50 x 36 cm

Cobre puro 3m | Cobre puro 3m

STAYER PROFESSIONAL QUALITY
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Figure 6: Control Panel. This image provides a close-up view of the welding machine's control panel, showing the analog dials for current, voltage, and wire speed adjustments.

The machine features classic analog controls for precise adjustment of welding parameters.

Welding Process Selection

Select the desired welding process (MIG/MAG, TIG, or MMA) using the mode selector switch on the control panel.

Parameter Adjustment

- **Current (Amperage):** Adjust the current knob to set the welding amperage according to the material thickness and welding wire/electrode size.
- **Voltage (MIG/MAG):** For MIG/MAG welding, adjust the voltage knob to control the arc length and bead profile.
- **Wire Speed (MIG/MAG):** Adjust the wire speed knob to match the current and voltage settings. The machine features a precise wire feed mechanism with a powerful 60W motor.
- **Polarity Reversal (for Flux-Cored Wire):** For welding with flux-cored wire without gas, reverse the polarity as indicated on the machine or in the quick-start guide. This is an easy and quick process.

Starting Welding

Once all connections are secure and parameters are set, put on your PPE. Position the torch/electrode and initiate the arc. The MMA mode includes Hot Start, Arc Force, and Anti Stick features to optimize arc ignition, enhance stability during welding, and prevent the electrode from sticking due to improper use.

MAINTENANCE

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

- **Cleaning:** Periodically clean the machine's exterior and ventilation openings to prevent dust and debris buildup, which can hinder cooling. Use compressed air for internal cleaning if necessary, ensuring the machine is unplugged.
- **Wire Feed Mechanism:** Inspect and clean the wire feed rollers regularly. Ensure they are free from debris and that the wire guides are not worn.
- **Torch/Electrode Holder:** Check the welding torch and electrode holder for wear and tear. Replace consumables (contact tips, nozzles, diffusers) as needed.
- **Cables:** Inspect all welding cables (power, ground, torch) for cuts, abrasions, or loose connections. Replace damaged cables immediately.
- **Storage:** Store the machine in a dry, clean environment when not in use.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cable disconnected, circuit breaker tripped, machine switch off	Check power connections, reset breaker, turn on machine
No arc	Poor ground connection, incorrect settings, worn consumables, faulty torch/electrode holder	Ensure clean ground connection, adjust settings, replace consumables, inspect torch/holder
Irregular wire feed (MIG/MAG)	Clogged liner, incorrect roller tension, worn contact tip, wrong wire size	Clean liner, adjust roller tension, replace contact tip, use correct wire
Overheating	Exceeding duty cycle, blocked ventilation, high ambient temperature	Allow machine to cool, clear ventilation, operate in cooler environment

SPECIFICATIONS

Feature	Detail
Model	MIG 200 MULTI
Brand	Stayer
Part Number	1.739
Welding Processes	MIG-MAG (flux-cored wire), TIG, MMA (coated electrode)
Input Voltage	220V
Max Output Current	200A
Wire Spool Capacity	Up to 15 kg
Wire Diameter	0.8 mm / 1.0 mm
Wire Feed Motor	60W

Feature	Detail
Dimensions (Package)	67 x 67 x 52.6 cm
Weight	22 Kilogram
Compliance	2011/65/EU, 2014/35/EU, 2014/30/EU, EN/IEC 60974

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your authorized Stayer dealer.

For technical support, spare parts, or service, please contact Stayer customer service or your local distributor.

You can find more information on the official Stayer website: www.stayer.es