

HITBOX MIG200III

HITBOX MIG200III Multi-Process Welder Instruction Manual

Model: MIG200III

1. INTRODUCTION

The HITBOX MIG200III is a versatile multi-process welding machine designed for both beginners and professionals. It supports Gas MIG, Flux MIG, Stick (MMA), Lift TIG, and Spot Welding. This welder is suitable for various materials including carbon steel, iron, galvanized steel, stainless steel, and aluminum, providing precision and efficiency for DIY projects, agricultural repairs, and professional tasks.

Key features include an easy-to-read LED display for essential welding data, compatibility with a spool gun for aluminum welding, and 2T/4T/Spot Welding modes for precise control.

2. SAFETY INFORMATION

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

- Wear appropriate personal protective equipment (PPE), including welding helmet, gloves, and protective clothing.
- Ensure adequate ventilation in the work area to avoid inhaling fumes.
- Keep flammable materials away from the welding area.
- Do not touch live electrical parts.
- Always disconnect power before performing maintenance or changing accessories.
- The HITBOX MIG200III is equipped with safety protections such as VRD (Voltage Reduction Device), overcurrent, overvoltage, overload, and overheating protection.

SAFETY & DURABILITY

High Integration MCU, Premium Fan



Overcurrent
Protection



Overvoltage
Protection



Overheating
Protection



Overload
Protection



VRD



Figure 1: Internal components and safety features of the HITBOX MIG200III welder. This image illustrates the machine's robust design, incorporating protections against overcurrent, overvoltage, overheating, overload, and a Voltage Reduction Device (VRD) for enhanced user safety.

3. PACKAGE CONTENTS

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

- Ground Clamp 1.5 m
- Electrode Holder 1.5 m

- MIG 15AK Torch 3.0 m
- Graphene Tube 3.5 m
- Gas Hose 2.0 m
- Flux Wire 0.8 mm 1 kg
- Contact Tips (0.8 mm * 2; 1.0 mm * 2)
- Rollers * 3 (V: 0.6 mm / 0.8 mm & 0.9 mm / 1.0 mm; U: 1.0 mm / 1.2 mm, Note: Max. 1.0 mm supported)
- Wrench
- Hammer
- Hose Clamps * 2
- User Manual

4. SPECIFICATIONS

Feature	Detail
Manufacturer	HITBOX
Model Number	MIG200III (H1032035)
Product Dimensions (L x W x H)	40 x 20 x 35 cm
Machine Weight	8.52 kg
Power Type	AC
Welding Processes	Flux MIG, Gas MIG, MMA (Stick), Lift TIG, Spot Welding
Gasless Welding Wire Sizes	0.8 mm / 0.9 mm / 1.0 mm
Gas Welding Wire Sizes (Carbon Steel with CO2)	0.6 mm / 0.8 mm / 0.9 mm / 1.0 mm
Gas Welding Wire Sizes (Aluminum with Argon)	1.0 mm
TIG Electrode Sizes	1.6 mm to 3.2 mm
Welding Thickness (TIG)	1 mm to 4 mm
Welding Thickness (MIG)	1 mm to 4 mm
Welding Thickness (MMA)	2 mm to 10 mm
Wire Feed Speed Adjustment	0 to 10
Inductance Adjustment	-10 to +10
Pre/Post Gas Flow Adjustment	0 to 2 seconds

5. SETUP

5.1 Power Connection

Connect the welder to a suitable 230V AC power supply. Ensure the power source meets the machine's requirements.

5.2 Wire Spool Installation and Feeding

Open the wire spool compartment. Place the welding wire spool onto the spindle, ensuring it rotates freely. Thread the wire through the guide tube and into the drive rollers. Adjust the tension of the drive rollers to prevent slipping or crushing the wire.



Figure 2: Wire spool installation and feeding mechanism. This illustration shows how to correctly install the welding wire spool and thread it through the machine's smooth wire feeding system, compatible with 2-10 lbs spools.

5.3 Gas Connection (for Gas MIG/TIG)

For Gas MIG or TIG welding, connect the gas hose (included) from your gas cylinder regulator to the gas inlet on

the back of the welder. Ensure all connections are secure and leak-free.

5.4 Torch and Ground Clamp Connection

- **MIG/TIG without Gas (Flux Core MIG):** Connect the ground clamp to the positive (+) terminal.
- **MIG/MMA with Gas:** Connect the ground clamp to the negative (-) terminal.
- Connect the MIG torch or TIG torch (sold separately for TIG) to the appropriate connectors on the front panel.

6. OPERATING INSTRUCTIONS

The HITBOX MIG200III offers multiple welding modes and synergic control for ease of use.

7 IN 1 MULTI-PROCESS WELDER



Gas MIG



Flux MIG



Spool Gun
(Extra purchase required)



Lift TIG
(Extra purchase required)



Spot Welding



Single Pulse
MIG



MMA



Note: WP26V TIG torch and spool gun need to be purchased additionally

Figure 3: Overview of welding processes. This image highlights the 7-in-1 multi-process capabilities of the welder, including Gas MIG, Flux MIG, Spool Gun compatibility, Lift TIG, Spot Welding, Single Pulse MIG, and MMA.

6.1 Synergic Control and Mode Selection

The synergic control feature simplifies parameter setting.

1. **Select SYN mode:** Activate synergic mode on the control panel.
2. **Select Material:** Choose the material type (e.g., Fe+CO₂ for carbon steel with CO₂ gas, AL+Ar for aluminum with Argon gas).
3. **Select Wire Size:** Specify the diameter of your welding wire.

The machine will automatically suggest recommended current and wire feed speed settings. You can fine-tune these settings as needed.



Figure 4: Synergic control panel. The LED display provides clear visual feedback for selecting welding modes, materials, and wire sizes, making setup straightforward for all skill levels.

6.2 Welding Modes and Adjustments

- **2T/4T/Spot Welding:** Select between 2T (trigger held for weld), 4T (trigger press to start, press again to stop), or Spot Welding mode for precise control. Spot welding time is adjustable.
- **Wire Feed Speed:** Adjust the wire feed speed from 0 to 10 for optimal welding control.

- **Inductance:** Adjust inductance from -10 to +10 to control arc stability.
- **Pre/Post Gas Flow:** Customize pre-flow and post-flow gas times from 0 to 2 seconds for optimal weld protection.

6.3 Aluminum Welding

The MIG200III supports aluminum welding with argon gas using a 1.0 mm wire. For enhanced performance, a spool gun (sold separately) is recommended.



Figure 5: Aluminum welding methods. This image demonstrates the use of both the standard MIG gun and an optional spool gun for effective aluminum welding.

7. 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. Use compressed air to clear internal components if necessary, ensuring the machine is unplugged.
- **Torch and Consumables:** Inspect the MIG torch, contact tips, nozzles, and electrode holder regularly. Replace worn or damaged consumables to maintain weld quality.
- **Wire Feeder:** Keep the wire feeder rollers clean and free of debris. Check for proper wire tension.
- **Cables and Connections:** Inspect all cables for damage and ensure connections are tight and secure.
- **Storage:** Store the welder in a dry, clean environment when not in use.

8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
No power	Power cable disconnected, circuit breaker tripped, machine switch off	Check power connections, reset breaker, turn on machine switch
Poor arc start/unstable arc	Improper ground connection, incorrect settings, dirty workpiece, worn contact tip	Ensure good ground, adjust voltage/wire speed, clean workpiece, replace contact tip
Wire feeding issues	Incorrect roller tension, clogged liner, wrong wire size, tangled wire spool	Adjust roller tension, clean/replace liner, verify wire size, untangle spool
Overheat protection activated	Exceeded duty cycle, blocked ventilation	Allow machine to cool down, ensure clear ventilation paths

If you encounter issues not covered here, please contact customer support.

9. WARRANTY AND SUPPORT

Each HITBOX MIG welding machine undergoes rigorous testing before leaving the factory to ensure it meets high industrial standards.

For specific warranty details and terms, please refer to the warranty card included with your product or contact HITBOX customer support directly.

Customer Support: For technical assistance, troubleshooting, or parts inquiries, please visit the official HITBOX website or contact their customer service department.