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> [HITBOX ARC 200A Stick Welder \(Model ARC120\) Instruction Manual](#)

## HITBOX ARC120

# HITBOX ARC 200A Stick Welder (Model ARC120) Instruction Manual

Model: ARC120 | Brand: HITBOX

## 1. IMPORTANT SAFETY INSTRUCTIONS

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Read and understand all safety warnings and instructions before operating this welding machine. Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

- **Electric Shock:** Welding current can kill. Do not touch live electrical parts. Wear dry, insulating gloves and protective clothing.
- **Fumes and Gases:** Welding produces fumes and gases. Keep your head out of the fumes. Use ventilation or exhaust to remove fumes and gases from the breathing zone.
- **Arc Rays:** Arc rays can injure eyes and burn skin. Wear a welding helmet with a proper shade filter. Wear protective clothing to protect skin.
- **Fire and Explosion:** Welding can cause fire or explosion. Keep flammable materials away from the welding area. Have a fire extinguisher nearby.
- **Hot Parts:** Welded parts are hot. Allow them to cool before touching.
- **Electromagnetic Fields (EMF):** Welding current creates electromagnetic fields. Consult your physician if you have a pacemaker or other medical implant.

## 2. PRODUCT OVERVIEW

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The HITBOX ARC 200A Stick Welder (Model ARC120) is a portable DC inverter welding machine designed for Stick (MMA) welding. It features a compact design, digital display, and adjustable current output for various welding tasks.

### 2.1 Components and Controls



Figure 2.1: Front view of the HITBOX ARC 200A Stick Welder. Shows the digital display, adjustment knob, and positive/negative terminals.

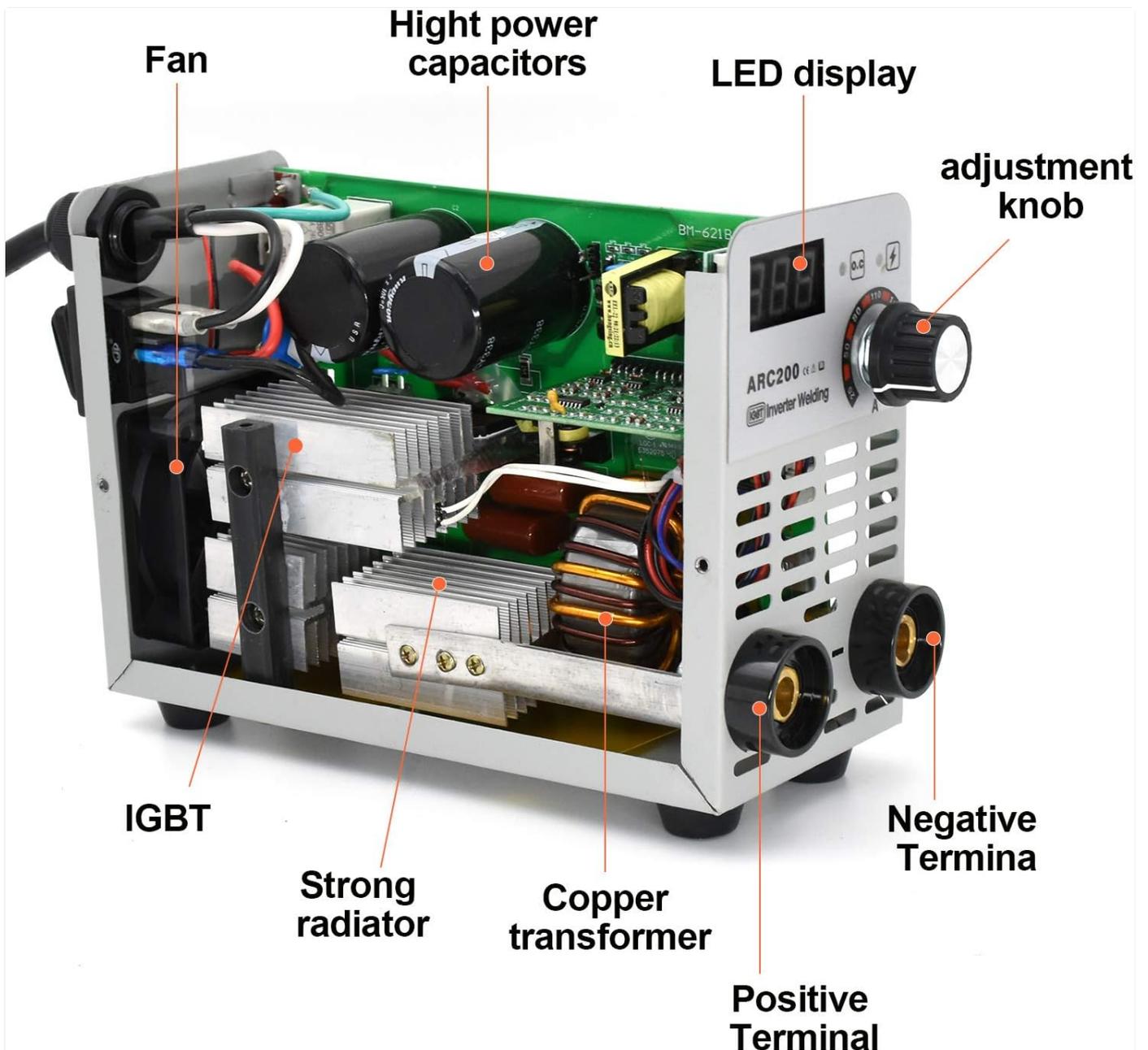


Figure 2.2: Internal components of the HITBOX ARC 200A Stick Welder, highlighting the fan, high power capacitors, LED display, adjustment knob, IGBT, strong radiator, copper transformer, negative terminal, and positive terminal.

- **Digital Display:** Shows the current welding amperage.
- **Adjustment Knob:** Used to set the welding current (amperage).
- **Positive Terminal (+):** Connects to the electrode holder cable.
- **Negative Terminal (-):** Connects to the work clamp cable.
- **Power Switch:** Located on the rear panel, turns the machine on/off.
- **Cooling Fan:** Located on the rear panel, ensures proper cooling during operation.

### 3. SPECIFICATIONS

Feature	Specification
Brand	HITBOX
Model Number	ARC120

Feature	Specification
Welding Type	ARC (Stick) / MMA Inverter Welding
Input Voltage	220 Volts (AC)
Max Output Current	200A (Rated)
Duty Cycle	60%
Product Dimensions	9.06 x 9.06 x 9.65 inches (23 x 23 x 24.5 cm)
Item Weight	7.7 pounds (3.5 Kilograms)
Material	Plastic (housing)
Special Feature	Portable



Figure 3.1: Dimensions of the HITBOX ARC 200A Stick Welder. Approximately 9 inches (23cm) wide, 6 inches (15.5cm) high, and 4 inches (10cm) deep.

# 60% Duty Cycle, Longer Lasting

The weld machine has a rated duty cycle of 60%. With this feature, it will protect you and your welder from any long-lasting damage.

Welding 7018 1/8" very well, also 6013 and 7018 3/32".



Figure 3.2: Illustration of the 60% duty cycle, indicating the machine's operational capacity over a 10-minute period.

## 4. SETUP

### 4.1 Unpacking and Inspection

Carefully remove the welding machine and all accessories from the packaging. Inspect for any damage that may have occurred during shipping. Report any damage to your supplier immediately.

- Welding Machine (ARC120)
- Electrode Holder with Cable
- Work Clamp with Cable
- Power Cord (NEMA L6-30P)



Figure 4.1: The HITBOX ARC 200A Stick Welder shown with its included electrode holder, work clamp, and power cord.

## 4.2 Electrical Connection

This machine operates on 220V AC power. Ensure your power supply meets the requirements. The power cord is equipped with a NEMA L6-30P plug. If your outlet is different, consult a qualified electrician for proper installation or use an appropriate adapter.

- Connect the power cord to a suitable 220V AC outlet.
- Ensure the power switch on the rear of the machine is in the "OFF" position before plugging in.

Your browser does not support the video tag.

Video 4.1: Demonstrates connecting the HITBOX ARC Welder to a power source and turning it on. The video shows the power cord being plugged into an adapter, then into a power strip, followed by turning on the welder's rear power switch.

## 4.3 Cable Connections

Connect the electrode holder and work clamp cables to the appropriate terminals on the front panel of the welding machine.

1. Insert the connector of the electrode holder cable into the **Positive (+)** terminal and twist to secure.
2. Insert the connector of the work clamp cable into the **Negative (-)** terminal and twist to secure.

3. Attach the work clamp securely to the workpiece or welding table, ensuring good electrical contact.

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*Video 4.2: Illustrates the connection of the electrode holder and work clamp cables to the HITBOX ARC Welder's front terminals. The video shows the positive and negative cables being inserted and secured.*

## 5. OPERATING INSTRUCTIONS

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### 5.1 Preparing for Welding

- **Safety Gear:** Always wear appropriate personal protective equipment (PPE), including a welding helmet with a suitable shade, welding gloves, flame-resistant clothing, and safety shoes.
- **Work Area:** Ensure your welding area is clean, well-ventilated, and free from flammable materials.
- **Electrode Selection:** Choose the correct type and size of electrode for your material and desired weld.

### 5.2 Welding Process

1. Turn on the welding machine using the power switch on the rear panel.
2. Adjust the welding current using the adjustment knob on the front panel. The digital display will show the selected amperage. Refer to electrode manufacturer recommendations for appropriate current settings.
3. Insert the electrode into the electrode holder.
4. Position the work clamp securely on the workpiece.
5. Strike an arc by lightly touching the electrode to the workpiece and quickly lifting it slightly to establish the arc.
6. Maintain a consistent arc length and travel speed to achieve a quality weld.
7. After welding, turn off the machine and allow the workpiece to cool.

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*Video 5.1: Shows the HITBOX ARC Welder in operation, demonstrating the arc striking and welding process. Note the bright arc light, emphasizing the need for proper eye protection.*

## High Purity Copper Wire    High quality rubber sheath



Figure 5.1: Examples of various weld beads, illustrating different appearances of completed welds.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your welding machine. Always disconnect the power supply before performing any maintenance.

- **Cleaning:** Periodically clean the machine's exterior with a dry cloth. Use compressed air to blow out dust and debris from the ventilation openings.
- **Cable Inspection:** Regularly inspect welding cables, electrode holder, and work clamp for damage, cuts, or loose connections. Replace damaged components immediately.
- **Storage:** Store the welder in a clean, dry environment when not in use.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Machine does not power on.	No power supply; Power switch off; Faulty power cord.	Check power outlet and circuit breaker; Ensure power switch is "ON"; Inspect power cord for damage.
No arc or weak arc.	Poor work clamp connection; Incorrect amperage setting; Damp or incorrect electrode; Loose cable connections.	Ensure good contact for work clamp; Adjust amperage; Use dry, correct electrode; Tighten all cable connections.
Overheat indicator (O.C.) illuminated.	Exceeded duty cycle; Insufficient ventilation.	Allow machine to cool down; Ensure clear airflow to cooling fan; Reduce welding time.

## 8. WARRANTY AND SUPPORT

For warranty information or technical support, please contact HITBOX customer service. Keep your purchase receipt as proof of purchase.

Visit the official HITBOX store for more products and support: [HITBOX Store](#)



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### Related Documents - ARC120

	<p><a href="#">HITBOX HBM200 Operation Instruction Manual   MIG, MMA, TIG Welder</a></p> <p>Comprehensive operation instruction manual for the HITBOX HBM200 welding machine, covering safety, features, installation, operation, maintenance, and troubleshooting for MIG, MMA, and TIG welding applications.</p>
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[HITBOX MIG250DP Professional MIG Welding Machine for Aluminum](#)

Discover the HITBOX MIG250DP, a versatile 5-in-1 MIG welding machine designed for aluminum and other metals. Features include 2T/4T function, synergic control, IGBT inverter, and advanced digital display. Ideal for professional and beginner welders.



[HITBOX SYN MIG200 MIG/MAG Inverter Welder Test Report](#)

This comprehensive test report details the performance and compliance of the HITBOX SYN MIG200 MIG/MAG inverter welder, tested by Dongguan NTEK Testing Service Co., Ltd. against CAN/CSA E60974-1-12 and ANSI/IEC 60974-1 standards.

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[HZXVOGEN MIG185II Operation Instruction Manual - Welding Machine Guide](#)

Comprehensive operation instruction manual for the HZXVOGEN MIG185II welding machine. Learn about features, applications, parameters, troubleshooting, and safety for this IGBT inverter welder.



INVERTER WELDER  
OPERATOR'S MANUAL

MODEL: ARC120/ARC120D/ARC160D

### [JASIC ARC120/ARC120D/ARC160D Inverter Welder Operator's Manual](#)

Comprehensive operator's manual for JASIC ARC120, ARC120D, and ARC160D inverter welding machines, covering safety precautions, operation, installation, maintenance, and troubleshooting.