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› HITBOX ARC Welder 200 (IN-ARC200DUAL) Instruction Manual

HITBOX IN-ARC200DUAL

HITBOX ARC Welder 200 (IN-ARC200DUAL) Instruction Manual

Model: IN-ARC200DUAL | Brand: HITBOX

1. IMPORTANT SAFETY INSTRUCTIONS

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 Can Kill:** Do not touch live electrical parts. Wear dry insulating gloves and protective clothing. Insulate yourself from work and ground.
- **Fumes and Gases Can Be Hazardous:** Keep your head out of the fumes. Use ventilation or exhaust to remove fumes from the breathing zone.
- **Arc Rays Can Burn Eyes and Skin:** Wear a welding helmet with a proper shade of filter to protect your eyes and face. Wear protective clothing to protect your skin.
- **Fire and Explosion Hazard:** Remove all flammables from the welding area. Have a fire extinguisher nearby.
- **Hot Parts Can Cause Severe Burns:** Allow cooling time before touching welded material.
- **Magnetic Fields:** Pacemaker wearers should consult their doctor before operating.
- Ensure the machine is properly grounded.
- Always disconnect power before servicing.

2. PRODUCT OVERVIEW

The HITBOX ARC Welder 200 (IN-ARC200DUAL) is a portable MMA (Manual Metal Arc) stick welding machine featuring IGBT inverter technology. It supports dual voltage input (110V/220V) and is designed for various welding tasks, suitable for both indoor and outdoor operations.



Figure 2.1: HITBOX ARC Welder 200 with included accessories. This image displays the compact welding machine alongside its essential components: an earth clamp, an electrode holder, and an adapter cord, all necessary for operation.

Key Features:

- **Dual Voltage Input:** Operates on 110V or 220V (50/60Hz).
- **IGBT Inverter Technology:** Ensures stable arc and efficient power usage.
- **Adjustable Welding Current:** 20-120A at 110V, 20-160A at 220V.
- **Portable Design:** Lightweight (4.7kg / 10.34lb) with a strap for easy transport.
- **Digital Display:** For precise current and voltage control.

3. TECHNICAL SPECIFICATIONS

Parameter	Specification (UW-ARC200 140A)
Function	MMA

Parameter	Specification (UW-ARC200 140A)
Inverter Technology	IGBT
Input Voltage (V)	110-220V (50/60HZ)
Rated Input Power Capacity (KVA)	4.8@110V, 7.0@220V
No-load Voltage (V)	65V
Output Current Range (A)	20-120@110V, 20-160@220V
Rated Output Voltage (V)	24.8@110V, 26.4@220V
Duty Cycle (40°C)	40%
Efficiency (%)	85%
Power Factor	>0.73
Insulation Class	F
Housing Protection Grade	IP21S
Net Weight	4.7kg / 10.34lb
Dimensions (mm)	290 x 120 x 200mm

4. SETUP

Proper setup is crucial for safe and effective welding. Ensure all connections are secure before powering on the machine.

4.1 Unpacking and Inspection

- Carefully remove the welder and all accessories from the packaging.
- Inspect for any shipping damage. If damage is found, contact your supplier immediately.
- Verify all accessories are present: 200A earth clamp with cable, 200A electrode holder with cable, and 1 adapter cord.

4.2 Connecting Welding Cables

- Earth Clamp Connection:** Insert the connector of the earth clamp cable into the negative (-) terminal on the front panel of the welder. Twist clockwise to secure.
- Electrode Holder Connection:** Insert the connector of the electrode holder cable into the positive (+) terminal on the front panel of the welder. Twist clockwise to secure.
- Ensure both connections are tight to prevent overheating and poor performance.



Machine plug



Conversion line

Figure 4.1: Welder with machine plug and conversion line. This image illustrates the main power plug of the welding machine and the included adapter cord, which facilitates connection to different power outlets.



Figure 4.2: Close-up of the adapter cord. This detailed view shows the adapter cord, which is used to convert the welder's power plug for compatibility with different voltage outlets.

4.3 Power Connection

1. Ensure the welder's power switch is in the "OFF" position.
2. Connect the welder's power cord to a suitable power outlet (110V or 220V). Use the provided adapter cord if necessary for your specific outlet type.
3. Verify the power source matches the welder's input voltage requirements. The machine automatically detects the input voltage.

Wide Voltage: ARC 200 110V - 220V



Figure 4.3: Front view of the welder highlighting wide voltage input. This image shows the front panel of the welder, emphasizing its capability to accept a wide range of input voltages (110V - 220V) for versatile operation.

Portable Operation: Mini welder with a strap to make it easy to carry, suitable for indoor and outdoor



Figure 4.4: Rear view of the welder with ON/OFF switch and input. This image displays the back of the welding machine, clearly showing the power ON/OFF switch and the input power connection point.

5. OPERATING INSTRUCTIONS

Before operating, ensure you are wearing appropriate Personal Protective Equipment (PPE), including a welding helmet, gloves, and protective clothing.

5.1 Powering On and Current Adjustment

1. Turn the power switch on the rear of the machine to the "ON" position. The digital display on the front panel will illuminate.
2. Use the control knob on the front panel to adjust the welding current (Amperage). The digital display will show the selected current.
3. Refer to your electrode manufacturer's recommendations for appropriate current settings based on electrode type and material thickness.

Welding Current: 20-120A@110V 20-160A@
220V adjustable hot striking arc current



Figure 5.1: Digital display for welding current adjustment. This image focuses on the welder's digital display, indicating the adjustable range for welding current (20-120A at 110V, 20-160A at 220V) and the hot striking arc current feature.

5.2 Welding Procedure (MMA/Stick Welding)

1. **Prepare Workpiece:** Clean the workpiece thoroughly to remove rust, paint, oil, or other contaminants.
2. **Attach Earth Clamp:** Securely attach the earth clamp to the workpiece or a metal workbench that is in direct contact with the workpiece. Ensure good electrical contact.
3. **Insert Electrode:** Insert the welding electrode into the electrode holder.
4. **Strike an Arc:** Gently tap or scratch the electrode against the workpiece to initiate an arc. Once the arc is established, maintain a consistent arc length and travel speed.
5. **Weld:** Move the electrode along the joint, maintaining the arc and depositing weld metal.
6. **Terminate Weld:** Break the arc by quickly pulling the electrode away from the workpiece.
7. **Inspect Weld:** Allow the weld to cool, then chip away slag (if using flux-cored electrodes) and inspect the weld for quality.

Note: Practice on scrap material before attempting critical welds.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your welding machine.

- **Cleaning:** Periodically clean the internal components of the welder using dry compressed air. Ensure the machine is unplugged and completely de-energized before opening the casing.
- **Cable Inspection:** Regularly inspect welding cables, electrode holder, and earth clamp for damage, fraying, or loose connections. Replace damaged components immediately.
- **Ventilation:** Keep the ventilation openings clear of dust and debris to ensure proper cooling.
- **Storage:** Store the welder in a dry, clean environment, away from moisture and extreme temperatures.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Welder does not power on.	No power from outlet; Power switch off; Internal fuse blown.	Check power outlet and circuit breaker; Ensure power switch is ON; Contact qualified service personnel if fuse is suspected.
No arc or weak arc.	Poor earth clamp connection; Incorrect current setting; Damp or incorrect electrode; Workpiece not clean.	Ensure earth clamp has good contact; Adjust current; Use dry, appropriate electrodes; Clean workpiece.
Welder overheats and shuts down.	Exceeded duty cycle; Blocked ventilation; High ambient temperature.	Allow machine to cool down; Clear ventilation openings; Operate in a cooler environment.
Unstable arc.	Poor cable connections; Incorrect arc length; Contaminated electrode.	Check and tighten all cable connections; Maintain consistent arc length; Use clean electrodes.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact HITBOX customer service. Keep your purchase receipt as proof of purchase.

Manufacturer: HITBOX

Model Number: IN-ARC200DUAL

ASIN: B07NV69W1L

For further assistance, you may visit the official [HITBOX Store on Amazon](#).

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