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› HITBOX TIG200A Dual Volt TIG Stick Welder Instruction Manual

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Model: TIG200A

1. PRODUCT OVERVIEW

The HITBOX TIG200A is a versatile 2-in-1 welding machine designed for both Tungsten Inert Gas (TIG) welding and Manual Metal Arc (MMA) or Stick welding. Featuring IGBT inverter technology, this portable unit offers high-frequency arc ignition for TIG welding and stable performance for stick welding. Its dual voltage capability (110V/220V) allows for flexible use in various environments. The machine is suitable for welding steel and other compatible metals.



Figure 1: Front view of the HITBOX TIG200A Dual Volt TIG Stick Welder.

2. SAFETY INFORMATION

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

- **Electric Shock:** Can kill. Ensure proper grounding. Do not touch live electrical parts. Wear dry welding gloves.
- **Fumes and Gases:** Can be hazardous to your health. Keep your head out of the fumes. Use ventilation or exhaust to remove fumes and gases from the breathing zone.
- **Arc Rays:** Can burn eyes and skin. Wear a welding helmet with a proper shade filter and protective clothing to protect your eyes and skin.
- **Fire and Explosion:** Welding sparks can cause fire or explosion. Keep flammable materials away from the welding area. Have a fire extinguisher readily available.
- **Hot Parts:** Can cause severe burns. Allow welded materials to cool before handling.
- Read and understand the entire manual before installation or operation.

3. PRODUCT COMPONENTS AND CONTROLS

Familiarize yourself with the main components and controls of your HITBOX TIG200A welder.



Figure 2: Front panel with labeled controls and connections. This image highlights the handle, current display, TIG/Stick exchange switch, adjustment current knob, air regulator, cutting torch connection, electrode holder connection, and ground clamp connection.

- **Handle:** For portable transport of the unit.
- **Current Display:** Digital display showing the set welding current.
- **TIG/Stick Exchange Switch:** Selects between TIG welding and MMA (Stick) welding modes.
- **Adjustment Current Knob:** Used to set the desired welding amperage.
- **Air Regulator:** For controlling the flow of shielding gas (Argon) during TIG welding.
- **Cutting Torch Connection:** Output terminal for the TIG torch.
- **Electrode Holder Connection:** Output terminal for the MMA electrode holder.

- **Ground Clamp Connection:** Terminal for connecting the earth clamp to the workpiece.

4. SETUP

4.1 Unpacking and Inspection

Carefully unpack the welding machine and all accessories. Inspect for any shipping damage. If damage is found, contact your supplier immediately.



Figure 3: Included accessories: TIG200A unit, TIG torch, ground clamp, welding holder, TIG consumables, and operator's manual.

4.2 Power Connection

The HITBOX TIG200A supports dual voltage input (110V/220V). Ensure the power source matches the machine's requirements and that the appropriate power cord and plug are used. A convert plug is included for convenience.

- Connect the power cord to a suitable grounded electrical outlet.
- Verify the input voltage switch (if present) is set correctly for your power supply.

4.3 TIG Welding Setup

1. Connect the TIG torch to the 'Cutting Torch' output terminal.
2. Connect the ground clamp to the 'Ground Clamp' terminal and securely attach it to the workpiece.
3. Connect the shielding gas (Argon) cylinder to the gas inlet on the machine via a regulator and hose.
4. Install the appropriate tungsten electrode and gas lens/collet into the TIG torch.
5. Set the TIG/Stick Exchange switch to 'TIG'.

4.4 Stick (MMA) Welding Setup

1. Connect the electrode holder to the 'Electrode Holder' output terminal.
2. Connect the ground clamp to the 'Ground Clamp' terminal and securely attach it to the workpiece.
3. Insert the appropriate welding electrode into the electrode holder.
4. Set the TIG/Stick Exchange switch to 'MMA'.

5. OPERATING INSTRUCTIONS

5.1 General Operation

1. Ensure all connections are secure and correct for the chosen welding process.
2. Turn on the main power switch located on the rear of the machine.
3. Select the desired welding mode (TIG or MMA) using the TIG/Stick Exchange switch.
4. Adjust the welding current using the Adjustment Current knob. The digital display will show the set amperage.
5. For TIG welding, open the gas cylinder valve and set the gas flow rate using the air regulator.
6. Wear all necessary personal protective equipment (PPE) including a welding helmet, gloves, and protective clothing.

5.2 TIG Welding Process

The HITBOX TIG200A features high-frequency arc ignition for TIG welding.

1. Position the TIG torch over the workpiece with the tungsten electrode close to the joint.
2. Press the torch trigger to initiate the arc. The high-frequency start will create an arc without touching the tungsten to the workpiece.
3. Maintain a consistent arc length and travel speed. Add filler rod manually if required.
4. Release the torch trigger to stop welding. Allow post-flow gas to shield the weld puddle as it cools.

5.3 Stick (MMA) Welding Process

1. Strike the electrode against the workpiece to initiate the arc.
2. Maintain a consistent arc length and travel speed, moving the electrode along the joint.
3. Continue welding until the electrode is consumed or the weld is complete.
4. Chip off any slag after the weld has cooled.

Video 1: Demonstration of the HITBOX TIG200A welder in operation, showcasing its TIG welding capabilities. This video provides a visual guide to the welding process.

6. MAINTENANCE

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

- **Cleaning:** Periodically clean the internal components of the machine using dry compressed air to remove dust and debris. Ensure the machine is unplugged before cleaning.
- **Cable Inspection:** Regularly inspect all welding cables, torch, and ground clamp for damage, cuts, or loose connections. Replace damaged components immediately.
- **Fan Vents:** Keep the cooling fan vents clear of obstructions to ensure proper airflow and prevent overheating.
- **Tungsten Electrodes:** For TIG welding, ensure tungsten electrodes are properly sharpened and free from contamination.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
No power to the machine	Power cord unplugged, circuit breaker tripped, machine switch off	Check power connections, reset breaker, turn machine on
No arc (MMA)	Poor ground connection, incorrect current setting, damp electrode	Ensure good ground, increase current, use dry electrodes
No arc (TIG)	No gas flow, contaminated tungsten, incorrect current, poor ground	Check gas supply, clean/replace tungsten, adjust current, ensure good ground
Poor weld quality	Incorrect current, improper travel speed, wrong filler material, insufficient gas shielding	Adjust settings, practice technique, use correct materials, check gas flow
Overheat indicator on	Exceeded duty cycle, blocked ventilation, high ambient temperature	Allow machine to cool, clear vents, reduce welding time

8. SPECIFICATIONS

Technical specifications for the HITBOX TIG200A welding machine.

WELDING TYPE	TIG200A	INSULATION CLASS	F
INPUT VOLTAGE	220V	PLUS FREQUENCY	50/60HZ
RATED DUTY CYCLE	60%	WELDING CURRENT	85%
TIG THICKNESS	0.3-4MM	STICK/ARC THICKNESS	2~8MM



Figure 4: Detailed specifications table for the TIG200A.

Feature	Specification
Welding Type	TIG200A (TIG/MMA)
Insulation Class	F
Input Voltage	110V/220V Dual Volt
Frequency	50/60Hz
Rated Duty Cycle	60%
TIG Welding Thickness	0.3-4 mm
Stick/Arc Welding Thickness	2-8 mm

Feature	Specification
Item Weight (Net)	15.4 lbs (approx. 7 kg)
Product Dimensions (L x W x H)	13" x 6" x 10" (approx. 33cm x 15cm x 25cm)



Product Size

Length: 6" x Width: 13" x Height: 10"

Weight: Net: 15.4LB Gross: 16.7LB



Figure 5: Product size diagram illustrating the dimensions of the HITBOX TIG200A welder.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

For technical support or service inquiries, please contact HITBOX customer service through the official website or your point of purchase. Provide your model number (TIG200A) and a detailed description of the issue for efficient assistance.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question