

YESWELDER TIG-200P ACDC

YESWELDER TIG-200P ACDC Aluminum Welder Instruction Manual

Model: TIG-200P ACDC

INTRODUCTION

This manual provides detailed instructions for the safe and effective operation, setup, and maintenance of your YESWELDER TIG-200P ACDC Aluminum Welder. Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent injury or damage.

SAFETY INFORMATION

Welding operations involve significant risks. Always adhere to safety precautions to prevent electric shock, fire, burns, and exposure to fumes. Ensure proper ventilation, wear appropriate personal protective equipment (PPE), and keep a fire extinguisher nearby.

- **Electric Shock:** Can kill. Do not touch live electrical parts. Wear dry gloves and protective clothing.
- **Fumes and Gases:** Can be hazardous to your health. Keep your head out of the fumes. Use enough ventilation and/or exhaust at the arc to keep fumes and gases away from the breathing zone.
- **Arc Rays:** Can injure eyes and burn skin. Wear a welding helmet with a proper shade of filter to protect your face and eyes when welding or watching. Wear approved safety glasses with side shields under your helmet.
- **Fire and Explosion:** Welding sparks can cause fire or explosion. Keep flammable materials away from the welding area.
- **Burns:** Hot metal can cause severe burns. Do not touch hot parts with bare hands.

SAFETY FIRST



OVERHEATING

Automatic shutdown if necessary



OVERLOAD

Automatic shutdown system



WATER RATING

IP21 protection standard



ELECTROSTATIC

Unique coating to prevent shock transfer



Figure 1: Safety Features of the TIG-200P ACDC Welder, including protection against overheating, overload, and electrostatic discharge, with an IP21 water rating.

PRODUCT OVERVIEW

The YESWELDER TIG-200P ACDC is a versatile 6-in-1 multi-process welding machine designed for various welding applications. It features a large LED display for clear parameter visibility and intuitive controls for ease of use.



Figure 2: The YESWELDER TIG-200P ACDC Aluminum Welder and its included accessories.

Key Features:

- **Large LED Display:** Provides clear visibility of welding parameters and settings.
- **6-in-1 Versatility:** Combines STICK, AC TIG, DC TIG, AC Pulse TIG, DC Pulse TIG, and Spot Welding.
- **Dual Voltage:** Operates on 110V/220V power.
- **High-Frequency (HF) Start:** Ensures reliable, non-touch arc ignition.
- **Auto Memory Function:** Automatically saves and recovers settings after power-off.
- **Portable Design:** Weighs approximately 16.47 lbs (7.47 kg) for easy transport.
- **Foot Pedal Interface:** 5-pin interface for optional foot pedal control.

PORTABLE & POWERFUL



Figure 3: The compact and portable design of the TIG-200P ACDC Welder, weighing only 16.47 lbs.

CONTROL PANEL OVERVIEW

The control panel features a large LED display and intuitive buttons for selecting welding modes and adjusting parameters.

PANEL INTRODUCTION

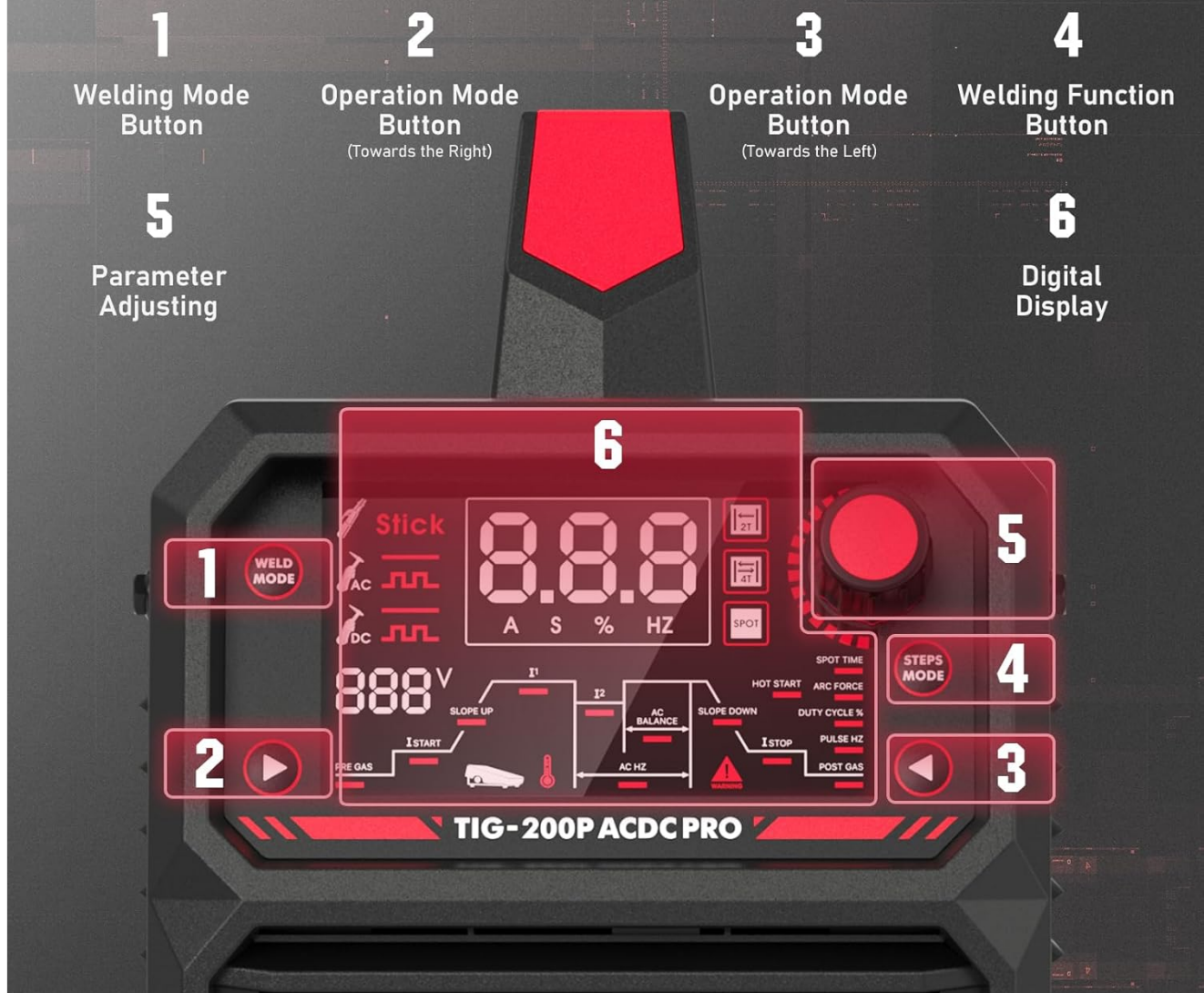


Figure 4: Detailed view of the TIG-200P ACDC control panel.

1. **Welding Mode Button:** Selects the desired welding process (STICK, TIG, Pulse TIG).
2. **Operation Mode Button (Right):** Adjusts parameters related to the right side of the display.
3. **Operation Mode Button (Left):** Adjusts parameters related to the left side of the display.
4. **Welding Function Button:** Selects specific welding functions (e.g., Hot Start, Arc Force, Spot Time).
5. **Parameter Adjusting Knob:** Used to increase or decrease selected parameter values.
6. **Digital Display:** Shows current welding parameters and settings.

SETUP AND CONNECTION

Proper connection of welding accessories is crucial for safe and effective operation. Follow these steps for connecting your TIG-200P ACDC welder.

TIG Mode Connection:

1. Connect the control connector of the TIG torch to the machine and tighten it.
2. Connect the switch connector of the TIG torch to the machine and tighten it.

3. Insert the quick plug on the earth cable into the "-" quick connector on the machine panel, and tighten it. Clamp the workpiece with the work clamp at the other end of the earth cable.
4. Open the machine switch, adjust to TIG mode, and you can start to use.

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Video 1: Demonstrates the connection process for TIG, STICK, and Foot Pedal modes on the TIG-200P ACDC Welder.

STICK Mode Connection:

1. Insert the quick plug on the earth cable into the "-" quick connector on the machine panel, and tighten it. Clamp the workpiece with the work clamp at the other end of the earth cable.
2. Insert the quick plug on the electrode holder into the "+" quick connector on the machine panel, and tighten it.
3. Open the machine switch, adjust to STICK mode, and you can start to use.

Foot Pedal Mode Connection:

The TIG-200P ACDC features a 5-pin foot pedal interface for enhanced control during welding.



Figure 5: The 5-pin foot pedal interface for optional current control.

1. Unplug the switch connector of the TIG torch.
2. Connect the switch connector of the foot pedal to the machine, and tighten it.
3. When the foot pedal icon appears on the screen, it means that foot mode can be used.

OPERATING MODES

The TIG-200P ACDC offers multiple welding modes to suit various materials and applications.



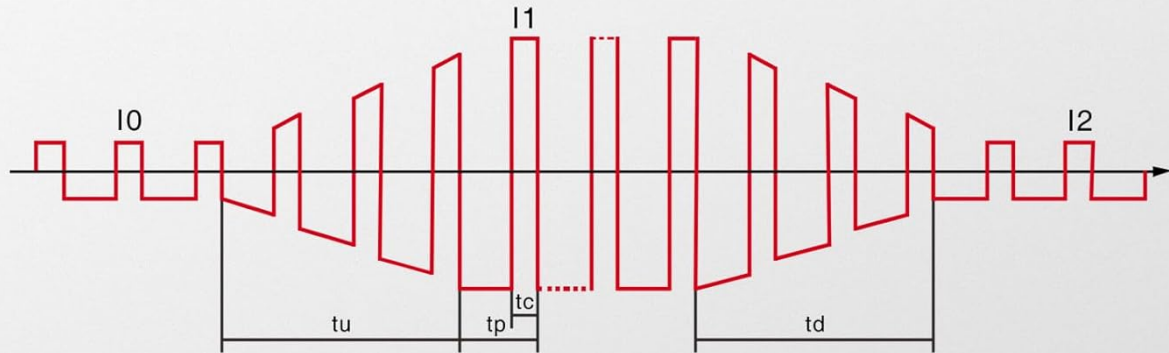
Figure 6: The 6-in-1 multi-process capabilities of the welder.

- **STICK Welding (MMA):** Suitable for general-purpose welding with coated electrodes.
- **DC TIG Welding:** Ideal for stainless steel, carbon steel, copper, and other non-ferrous metals (except aluminum). Features High-Frequency (HF) start.
- **AC TIG Welding:** Optimized for aluminum and magnesium alloys, providing a cleaning action to remove oxides. Features High-Frequency (HF) start.
- **DC Pulse TIG Welding:** Offers enhanced control for thinner materials and reduced heat input on DC weldable metals.
- **AC Pulse TIG Welding:** Provides precise control and improved weld quality for aluminum, especially on thinner sections.

- **Spot Welding:** For quick, localized welds.

AC SQUARE/PULSED TIG WELDING

AC Square Wave TIG Welding



AC Pulsed TIG Welding

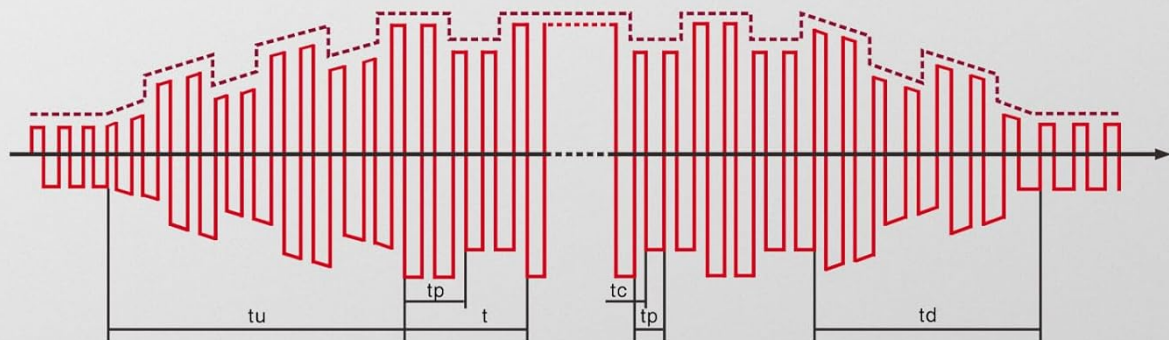


Figure 7: Waveform characteristics for AC Square Wave and AC Pulsed TIG welding.

The Squarewave AC/DC TIG inverter is software-controlled, allowing for precise adjustments to AC balance and frequency, which are critical for aluminum welding. AC mode is specifically optimized for cleaner and easier aluminum welding, while DC mode is used for steel and other metals.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your welding machine. Always disconnect power before performing any maintenance.

- **Cleaning:** Periodically clean the machine's exterior and internal components (if accessible) to remove dust and debris. Use compressed air for internal cleaning.
- **Cable Inspection:** Inspect all cables, including welding cables, power cords, and control cables, for cuts, fraying, or damage. Replace damaged cables immediately.
- **Connections:** Ensure all connections are tight and free from corrosion. Loose connections can lead to overheating and poor performance.

- **Cooling Fan:** Ensure the cooling fan is free from obstructions and operating correctly to prevent overheating.
- **TIG Torch Maintenance:** Regularly inspect and replace worn-out consumables such as collets, collet bodies, and ceramic nozzles. Keep the tungsten electrode sharp and clean.

TROUBLESHOOTING

This section addresses common issues you might encounter with your welder. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
No Arc / Difficulty Starting Arc	Loose connections, incorrect gas flow, contaminated tungsten, wrong welding parameters.	Check all cable connections. Verify gas supply and flow rate. Clean or replace tungsten. Adjust welding parameters according to material.
Poor Weld Quality (Porosity, Inclusions)	Insufficient shielding gas, contaminated base metal, incorrect travel speed, improper filler rod.	Increase gas flow. Clean workpiece thoroughly. Adjust travel speed. Use appropriate filler rod.
Overheating Indicator On	Exceeded duty cycle, blocked ventilation, high ambient temperature.	Allow machine to cool down. Ensure clear airflow to cooling fan. Reduce welding time or current.
Machine Not Powering On	No power supply, faulty power cord, internal fault.	Check power outlet and circuit breaker. Inspect power cord. Contact customer support if issue persists.

SPECIFICATIONS

Detailed technical specifications for the YESWELDER TIG-200P ACDC Welder.

Feature	Detail
Model	TIG-200P ACDC
Manufacturer	YESWELDER
Item Weight	29 pounds (approx. 13.15 kg)
Package Dimensions	17.7 x 13.6 x 11.5 inches
Power Source	AC/DC (110V/220V Dual Voltage)
Included Components	TIG Welder
Cooling Mode	Fan Cooling
Insulation Grade	F
Protection Standard	IP21S





Figure 8: Electrical specifications and duty cycle information.




WARRANTY AND SUPPORT

The YESWELDER TIG-200P ACDC Welder comes with a **1-year warranty**. For technical assistance, troubleshooting, or warranty claims, please contact YESWELDER customer support.

- **Customer Support:** Available 24/7. Refer to the official YESWELDER website for contact details.
- **Online Resources:** Visit the [YESWELDER Store on Amazon](#) for additional product information and accessories.

Related Documents - TIG-200P ACDC

 <p>TIG-205P PRO DC TIG SERIES IGBT INVERTER WELDER</p>	<p>YesWelder TIG-205P PRO 3-in-1 Multiprocess Welder Manual</p> <p>Comprehensive guide to the YesWelder TIG-205P PRO, a 110V/220V dual voltage, 200A 3-in-1 multiprocess welder supporting Stick, DC TIG, and Pulse TIG welding. Includes specifications, features, and basic operation.</p>
	<p>YESWELDER TIG-250P ACDC IGBT Inverter Welder Operator's Manual</p> <p>Official operator's manual for the YESWELDER TIG-250P ACDC IGBT Inverter Welder. Learn about safety, product overview, functions, technical specifications, operation, and maintenance for this professional welding machine.</p>
 <p>CT520 4-IN-1 WELDER CUTTER (STICK, HF TIG, PULSE TIG, PLASMA CUTTING)</p>	<p>YESWELDER CT520 4-in-1 Welder & Cutter Operator's Manual</p> <p>This operator's manual provides comprehensive safety, specification, installation, operation, maintenance, and troubleshooting information for the YESWELDER CT520 4-in-1 Welder & Cutter, supporting Stick, HF TIG, Pulse TIG, and Plasma Cutting functions.</p>

<div><p>FLUX-135PRO 110V GASLESS FLUX-CORE WELDER 135AMP</p><p>OPERATOR'S MANUAL</p><p>YESWELDER®</p><p>To help us serve you better, go to www.yeswelder.com</p></div>	<p>YESWELDER FLUX-135PRO 110V Gasless Flux-Core Welder Operator's Manual</p> <p>Comprehensive operator's manual for the YESWELDER FLUX-135PRO 110V Gasless Flux-Core Welder. Covers safety precautions, installation, operation, maintenance, and troubleshooting for flux-core, stick, and TIG welding.</p>
<div><p>FIRSTESS DP200 100T INVERTER IGBT MULTI-PROCESS WELDER (DUAL PULSE MIG, FLUX-CORED, LIFT TIG, STICK)</p><p>OPERATOR'S MANUAL</p><p>YESWELDER®</p><p>To help us serve you better, go to www.yeswelder.com</p></div>	<p>YesWelder FIRSTESS DP200 IGBT Inverter Multi-Process Welder Operator's Manual</p> <p>Comprehensive operator's manual for the YesWelder FIRSTESS DP200 IGBT Inverter Multi-Process Welder, covering setup, operation, safety, and troubleshooting for Dual Pulse MIG, Flux-Cored, Lift TIG, and Stick welding.</p>
<div><p>FLUX-135 110V GASLESS FLUX-CORE WIRE WELDER 135AMP</p><p>OPERATOR'S MANUAL</p><p>YESWELDER®</p><p>To help us serve you better, go to www.yeswelder.com</p></div>	<p>YesWelder FLUX-135 110V Gasless Flux-Core Wire Welder Operator's Manual</p> <p>This manual provides comprehensive instructions for the safe operation, installation, and maintenance of the YesWelder FLUX-135 110V Gasless Flux-Core Wire Welder. It covers safety precautions, technical specifications, operational procedures for flux-core, stick (MMA), and TIG welding, troubleshooting, and routine maintenance.</p>