



Manuals.plus /

› TOOLTOP /

› TOOLTOP Awithz P60F Capacitor Spot Welder User Manual

TOOLTOP P60F

TOOLTOP Awithz P60F Capacitor Spot Welder User Manual

Model: P60F

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your TOOLTOP Awithz P60F Capacitor Spot Welder. This device is designed for precise battery welding applications, featuring both automatic and foot pedal control modes. Please read this manual thoroughly before use to ensure proper functionality and to prevent damage or injury.

2. SAFETY INSTRUCTIONS

Always adhere to the following safety guidelines to prevent electric shock, fire, or personal injury:

- Ensure the work area is well-ventilated and free from flammable materials.
- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and protective clothing.
- Do not operate the welder in damp or wet conditions.
- Disconnect power before performing any maintenance or adjustments.
- Keep children and unauthorized personnel away from the operating area.
- Do not touch the welding electrodes or work piece immediately after welding, as they will be hot.
- Use only the provided power adapter and accessories.

3. PACKAGE CONTENTS

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

AWithZ

P60F

Output power:
29.2KW

- Spot welder * 1
- File * 1
- Foot pedal * 1
- Spot welding pen * 2
- Spot welding needle * 6
- Nickel sheet 5 meters * 1
- Fast charging adapter * 1
- 6-section 18650 fixture * 1

Wan Zhong Precision Tuned New Low Internal Resistance Big Tube

Image: The complete package contents for the P60F spot welder, including the main unit, foot pedal, welding pens, and accessories.

- 1 x Spot Welder Main Unit (P60F)
- 1 x File
- 1 x Foot Pedal
- 2 x Spot Welding Pens
- 6 x Spot Welding Needles
- 1 x Nickel Sheet (5 meters)
- 1 x Fast Charging Adapter
- 1 x 6-Section 18650 Fixture

4. PRODUCT OVERVIEW

Familiarize yourself with the components and controls of the P60F spot welder.

Stable Accurate Welding

Support 2 welding modes

AT Mode:

Automatic trigger welding



Fast & Easy to welding

MT Mode:

Pedal trigger welding



Independent & Controllable

All mode support settings: Preheating, Interval, and Stitch Welding.

Image: Labeled diagram showing the main components and interface of the P60F spot welder.

1. Power On/Off Button / Select Button
2. Select Button
3. OK Button
4. Spot Welding Pen Interface
5. Foot Pedal Connection Port
6. 2.4-inch LCD Display

5. SETUP

Follow these steps to set up your spot welder:

1. Place the spot welder on a stable, non-flammable surface.
2. Connect the fast charging adapter to the welder and a suitable power outlet (100-240V).
3. Insert the spot welding pens into the Spot Welding Pen Interface (4). Ensure a secure connection.
4. If using the foot pedal mode, connect the foot pedal to the Foot Pedal Connection Port (5).
5. Press the Power On/Off Button (1) to turn on the device. The 2.4-inch LCD Display (6) will illuminate.

6. OPERATING MODES

The P60F offers two welding modes: Automatic Trigger (AT) and Pedal Trigger (MT).



Powerful & Durable Battery System

Farad Capacitor Health



Before **After 1 years of use**

◀ Farah Capacitance

- ⚡ Excellent Power, Long Lasting.
- ⚡ Fast charging, support repeated 100000+.
- 🔋 Super capacity, reach to thousands of farads.
- ✓ High conversion rate, low loss, strengthened welding.
- ♻️ Environmentally friendly, renewable raw materials.



Image: Visual representation of the two welding modes: Automatic Trigger and Pedal Trigger.

6.1. Automatic Trigger (AT) Mode

In AT Mode, the welder automatically detects contact with the workpiece and initiates the weld. This mode is suitable for quick and repetitive tasks.

6.2. Pedal Trigger (MT) Mode

In MT Mode, welding is initiated by pressing the foot pedal. This provides independent and controllable welding, allowing for precise placement and timing.

Both modes support adjustable settings for Preheating, Interval, and Stitch Welding, which can be configured via the 2.4-inch LCD display.

7. WELDING PARAMETERS AND ADJUSTMENT

The P60F allows for fine-tuning of welding parameters to achieve optimal results for various materials and thicknesses.

Identify six core factors Ten thousand fine tune welding stronger

After tens of thousands of times welding material characteristics research
Lock six core key factors such as preheating, intermittent, triggering and
connecting points. The ingenuity brings together tens of thousands of
fine-tuned output modes to fit the characteristics of welding materials such as
different thicknesses and materials. It is the best choice for R&D laboratories,
exquisite manufacturing and maintenance industries

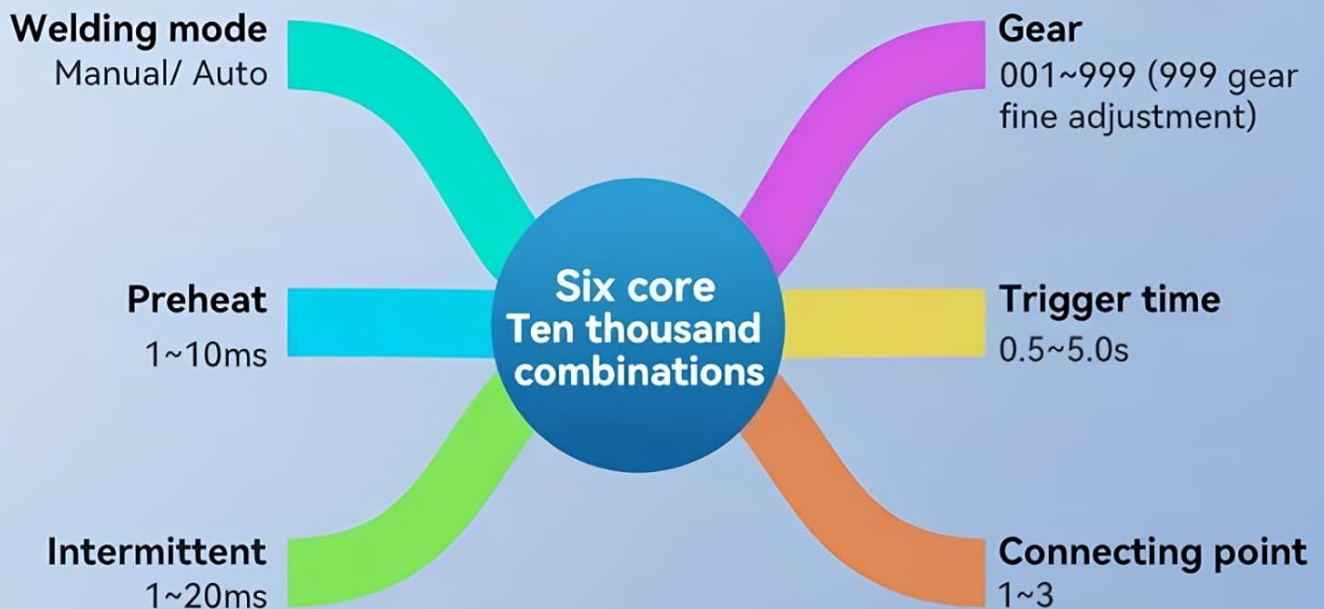


Image: A visual guide to the six core adjustable parameters for fine-tuning welding performance.

- **Welding Mode:** Select between Manual (Pedal) or Auto mode.
- **Gear:** Adjust power level from 001 to 999 for fine adjustment.
- **Preheat:** Set preheating time from 1 to 10ms.
- **Trigger Time:** Adjust the welding trigger duration from 0.5 to 5.0s.
- **Intermittent:** Set intermittent welding time from 1 to 20ms.
- **Connecting Point:** Adjust the number of connecting points from 1 to 3.

The P60F is capable of welding materials such as Nickel-plated steel up to 1.0mm, Pure nickel up to 0.5mm, and Copper up to 0.3mm.




Professional			
Model	P20B	P30C	P60F
Product appearance			
Shell material:	Plastic	Plastic	Plastic
Input parameter:	8.1V/15A(MAX)	9V/15A(MAX)	9V/15A(MAX)
Output voltage:	9V(MAX)	9V(MAX)	9V(MAX)
Output power:	14.6KW(MAX)	21.8KW(MAX)	29.2KW(MAX)
Output current:	1625A(MAX)	2430A(MAX)	3250A (MAX)
Net weight of the host:	1.38kg	1.42kg	1.65kg
Product size:	180*131*80mm	180*131*80mm	180*131*80mm

Image: The P60F spot welder in operation, demonstrating its capability to weld up to 1.0mm thickness.

8. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your spot welder.

- **Cleaning:** Periodically clean the main unit and welding pens with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Electrode Inspection:** Inspect welding needles for wear or damage. Replace them as needed to ensure consistent weld quality.
- **Storage:** Store the welder in a dry, dust-free environment when not in use.
- **Cable Check:** Regularly check all cables and connections for signs of wear or damage.

9. TROUBLESHOOTING

If you encounter issues with your P60F spot welder, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the welder and a working power outlet. Check the power button.
- **Poor Weld Quality:**
 - Adjust the 'Gear' (power level) setting.
 - Check welding needles for wear; replace if necessary.
 - Ensure proper contact between the welding pens and the workpiece.
 - Verify the material thickness is within the welder's capabilities.
- **Welder Not Triggering (AT Mode):** Ensure the welding pens are making firm and simultaneous contact with the workpiece.
- **Welder Not Triggering (MT Mode):** Ensure the foot pedal is properly connected and fully depressed.

10. SPECIFICATIONS

Detailed technical specifications for the TOOLTOP Awithz P60F Capacitor Spot Welder.

AWithZ

Enhanced Spot Welder

Powerful 29KW



Welding Material

Nickel-plated 1mm
Pure nickel 0.5mm
Copper 0.3mm



2.4inch
Colorful Screen



5 min
Quick Activation



2 Mode
Pedal & Auto mode



999 Power Level



* Works like a charm



Farad Capacity
Stronger & Durable

Image: A comparison table detailing the specifications for different models, including the P60F.

Specification	Detail (P60F)
Manufacturer	TOOLTOP
Model Number	TT-Awithz-P60F
Shell Material	Plastic
Input Parameter	9V/15A (MAX)
Output Voltage	9V (MAX)
Output Power	29.2KW (MAX)
Output Current	3250A (MAX)
Net Weight of Host	1.65kg
Product Size	180*131*80mm
Specification Met	CE, RoHS
First Available	October 23, 2025

11. WARRANTY INFORMATION

The TOOLTOP Awithz P60F Capacitor Spot Welder comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or contact customer support for specific terms and conditions. Keep your purchase receipt as proof of purchase for warranty claims.

12. CUSTOMER SUPPORT

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact TOOLTOP customer support. Contact information can typically be found on the product packaging or the official TOOLTOP website.