

AWithZ HD2

AWithZ HD2 Cordless Spot Welder User Manual

Model: HD2

1. INTRODUCTION

Thank you for choosing the AWithZ HD2 Cordless Spot Welder. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your device. Please read this manual thoroughly before use and retain it for future reference.

The AWithZ HD2 is a compact and portable spot welder designed for DIY projects and battery pack assembly. It features replaceable welding needles, 99 adjustable power levels, and an intuitive LCD screen for precise control.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the device:

- Keep the device away from children and pets.
- Do not operate the spot welder in wet conditions or near flammable materials.
- Wear appropriate personal protective equipment, including safety glasses, during operation.
- Ensure proper ventilation when welding.
- Do not touch the welding needles immediately after use, as they may be hot.
- Only use the provided charging cable and power source.
- If the device exhibits abnormal behavior or overheating, discontinue use immediately.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- AWithZ HD2 Spot Welder
- Multi-language User Manual
- Sandpaper
- Type-C Charging Cable

- Nickel-plated Sheet (2 meters, 0.1mm thickness)
- Spare Welding Needles (2 pairs)



Image 3.1: Contents of the AWithZ HD2 package.

4. PRODUCT OVERVIEW

The AWithZ HD2 is a lightweight (140g) and compact spot welder designed for single-hand operation. It features an integrated design with a 1.5-inch color LCD screen for clear display of settings and real-time monitoring.



Image 4.1: AWithZ HD2 Spot Welder and its components.

4.1. Display Screen

The 1.5-inch color LCD screen provides comprehensive information and allows for various functional adjustments. It displays:

- Battery level
- Welding mode (Automatic/Manual)
- Preheating setting
- Gear (Power level)
- Trigger time
- Temperature

High definition display screen



90 level
adjustment

Accurate
and firm

Preheating and trigger
time adjustable

Automatic/
Manual Dual Mode

Real time temperature
monitoring



Image 4.2: High-definition display screen of the HD2.

4.2. Internal Battery

The device is powered by high-magnification A-grade battery cells, ensuring reliable performance.

Only use brand new high magnification A-grade battery cells

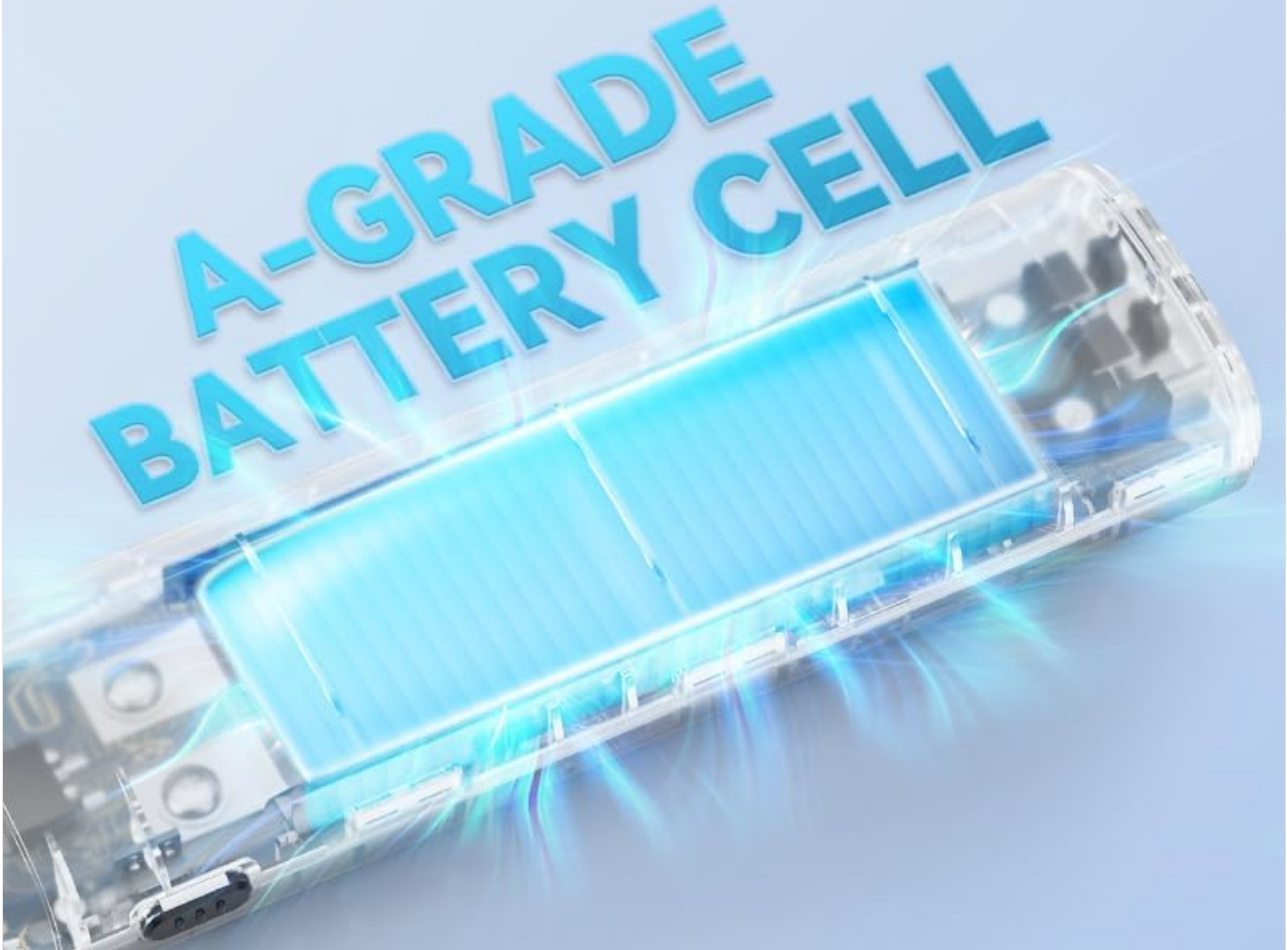


Image 4.3: Illustration of the internal A-grade battery cells.

5. SETUP

5.1. Initial Charging

Before first use, fully charge the AWithZ HD2 using the provided Type-C charging cable. Connect the cable to the device and a compatible USB power adapter. The LCD screen will indicate the charging status.

5.2. Welding Needle Installation/Adjustment

The HD2 features replaceable welding needles. Ensure they are securely installed and properly spaced for optimal welding performance. The preset welding distance is 0.8mm, with support for automatic adjustment.

6. OPERATING INSTRUCTIONS

6.1. Power On/Off

Press and hold the power button to turn the device on or off. The LCD screen will illuminate upon power-on.

6.2. Power Level Adjustment (Gear)

The HD2 offers 99 power settings (gears) for spot welding. Adjust the power level via the LCD screen interface to match the thickness and material of the nickel-plated or stainless steel sheets you are welding. It is recommended for thicknesses between 0.05mm and 0.2mm.

6.3. Welding Modes

The device supports two welding modes:

- **Automatic Mode:** Suitable for quick welding tasks, offering simple and efficient operation.
- **Manual Mode:** Provides full control over the welding process, ideal for fine welding applications.

Select the desired mode through the LCD screen settings.

6.4. Advanced Settings

The 1.5-inch color LCD screen allows for adjustment of various functional parameters, including:

- Preheating time
- Welding speed
- Trigger time
- Permanent point settings

Refer to the on-screen menu for detailed adjustments.

AWithZ

Double pulse blessing Weldable 0.2mm

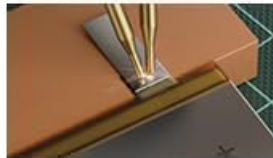
Used for welding various cylindrical batteries,
mobile phone batteries, etc

Cylindrical battery



18650 / 26650 / 32650

Mobile phone battery



Nickel sheet thickness: 0.1-0.2mm



Nickel plated sheet
Steel sheet
Iron sheet
Nickel sheet

**Welding pins
can be replaced**



Image 6.1: Examples of welding applications with the HD2.

6.5. Welding Procedure

1. Ensure the battery surface and nickel strip are clean and free of oxidation. Use sandpaper if necessary.
2. Place the nickel strip firmly against the battery terminal.
3. Position the welding needles onto the nickel strip, applying gentle, even pressure.
4. Initiate the weld (automatically in auto mode, or manually in manual mode).
5. Inspect the weld for strength and consistency. Adjust power settings if needed.

7. MAINTENANCE

7.1. Cleaning

After each use, clean the welding needles and the surrounding area with a dry cloth to remove any residue. Ensure the device is powered off before cleaning.

7.2. Welding Needle Replacement

The AWithZ HD2 features an innovative design with replaceable welding needles, extending the device's lifespan and reducing maintenance costs. Replace needles when they become worn or damaged.

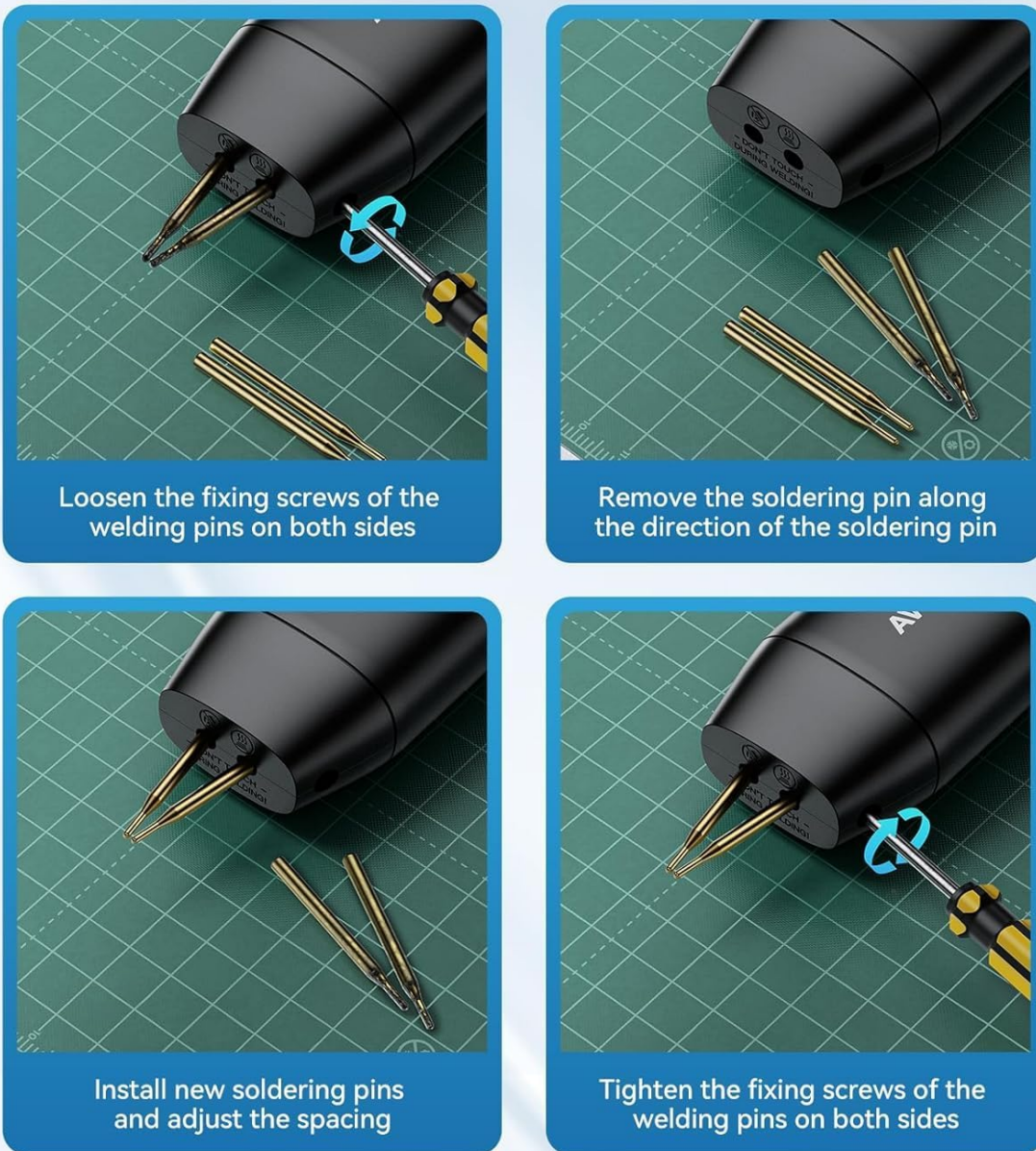


Image 7.1: Scientific design for easy needle replacement.

Procedure for Replacing Welding Needles:

1. Loosen the fixing screws on both sides of the welding pins.
2. Remove the old soldering pins by pulling them in the direction of the pin.
3. Install new soldering pins and adjust their spacing as needed.
4. Tighten the fixing screws on both sides to secure the new pins.

How to Replace a Spot Welding Pen Tip



Loosen the fixing screws of the welding pins on both sides

Remove the soldering pin along the direction of the soldering pin

Install new soldering pins and adjust the spacing

Tighten the fixing screws of the welding pins on both sides

Image 7.2: Step-by-step guide for welding needle replacement.

7.3. Storage

Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the device is fully charged before long-term storage to maintain battery health.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your AWithZ HD2 Spot Welder.

Problem	Possible Cause	Solution
Device does not power on	Low battery; Faulty charging cable/adapter	Charge the device fully; Try a different Type-C cable or adapter.

Problem	Possible Cause	Solution
Weak or inconsistent welds	Incorrect power setting; Dirty welding needles/workpiece; Worn needles; Insufficient pressure	Increase power level; Clean needles and workpiece; Replace worn needles; Apply firm, even pressure.
"Temperature Anomaly" alarm	Device overheating due to continuous use	Stop welding and allow the device to cool down. The device will automatically resume operation once the temperature returns to normal.
Low battery alarm	Battery charge is critically low	Recharge the device immediately.

9. SPECIFICATIONS

Feature	Detail
Model Number	HD2
Manufacturer	AWithZ
Dimensions (L x W x H)	3 x 2 x 20 cm
Weight	310 grams
Battery Type	Lithium-polymer (1 included)
Power Levels	99
Recommended Welding Thickness	0.05mm - 0.2mm (nickel-plated/stainless steel sheets)
Display	1.5-inch Color LCD
Charging Port	Type-C
Country of Origin	China

10. WARRANTY AND SUPPORT

AWithZ is committed to providing high-quality products and customer service. For any questions, concerns, or technical support regarding your HD2 Spot Welder, please contact our expert team. Refer to your purchase documentation or the AWithZ official website for specific warranty terms and contact information.

We strive to offer efficient and reliable welding solutions. Your satisfaction is our priority.

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

Anonymous

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

Answered questions about this manual

Why is my AWithZ HD2 spot welder not heating or producing weak welds?

If your AWithZ HD2 is not heating or producing weak welds, please check the following troubleshooting steps based on the user manual: Check Power Settings (Gear): The HD2 has 99 power levels. If the setting...

[Read full answer](#)