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## Kerpu DSH

# Kerpu Mini Spot Welder Instruction Manual

Model: DSH | Brand: Kerpu

## 1. INTRODUCTION

The Kerpu Mini Spot Welder is a portable, energy-storage spot welding machine designed for DIY enthusiasts and professionals. It features adjustable power settings and is suitable for welding various battery types and thin metal sheets. This manual provides essential information for safe and effective operation.

## 2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using the device to prevent electric shock, fire, or serious injury.

- Always wear appropriate personal protective equipment, including safety glasses, during operation.
- Ensure the work area is well-ventilated and free from flammable materials.
- Do not operate the spot welder in wet conditions or expose it to rain.
- Keep the device out of reach of children.
- Avoid touching the welding pens or welded materials immediately after welding, as they may be hot.
- The device has built-in over-charge, over-discharge, and over-temperature protection. If overheating occurs, the unique overheating protection device will automatically cut off power.
- Do not attempt to disassemble or modify the device. Refer all servicing to qualified personnel.

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Kerpu Mini Spot Welder (Model DSH)
- 1 x User Manual
- 1 x 1M Type-C USB Cable
- 1 x Metal File
- 2 x 40CM Spot Welding Pens (integrated with cables)

- 1 x 2M Nickel Sheet



Image: Contents of the Kerpu Mini Spot Welder package, including the main unit, welding pens, charging cable, nickel sheet, and file.

# Upgrade Structure For Multi-Protection



Front install the spot welding pen.  
More smooth, More stable.

## Top opening



Effective use length  
is about **40cm**

VS

## Front opening



Effective use length  
is about **33cm**

Image: A visual representation of the items included in the package, such as the spot welder, user manual, USB-C cable, metal file, nickel sheet, and welding pens.

## 4. PRODUCT OVERVIEW

Familiarize yourself with the components and controls of your Kerpu Mini Spot Welder.



## 5. SETUP

1. **Charge the Device:** Before first use, fully charge the spot welder using the provided Type-C USB cable and a 5V/2A power adapter (not included). It takes approximately 2.5 hours for a full charge. It is recommended to keep the power above 50% during spot welding for optimal performance.



Image: The Kerpu Mini Spot Welder connected to a wall adapter via its Type-C port for charging, illustrating its 5000mAh capacity.

2. **Connect Welding Pens:** Insert the gold-plated connectors of the welding pens into the corresponding interfaces on the top of the spot welder. Ensure a secure connection.

Your browser does not support the video tag.

Video: Demonstrates how to connect the welding pens to the Kerpu Mini Spot Welder and prepare for operation.

3. **Prepare Materials:** Ensure the nickel sheet and battery surfaces are clean and flat. Use the provided metal file to lightly abrade the contact points if necessary to ensure good conductivity.

## 6. OPERATION

### 6.1 Power On/Off and Mode Selection

1. **Power On:** Press and hold the On/Off key until the indicator lights illuminate.
2. **Select Mode:** Briefly press the On/Off key to toggle between Automatic Mode (yellow light on left) and Manual Mode

(yellow light on right).

Your browser does not support the video tag.

Video: Illustrates the power on/off function and how to switch between automatic and manual welding modes on the device.

3. **Adjust Gear (Output Power):** Press the Power Gear key to cycle through the 11 available gears. Higher gears provide more welding power. Start with a lower gear and increase as needed for your material thickness.



Image: Diagram showing the 11 adjustable gears for output power, with corresponding red indicator lights. It also notes the ability to spot weld up to 0.2mm/0.007 inches in nickel-plated sheet.

4. **Power Off:** Press and hold the On/Off key until the indicator lights turn off.

## 6.2 Welding Procedure

The spot welder is suitable for 18650 and other cylindrical lithium batteries, nickel metal hydride batteries, and cadmium nickel batteries. It can also weld iron, steel, and stainless steel sheets with a thickness less than 0.2 mm (0.007 inch) to other iron, steel, or stainless steel materials.

1. **Position Materials:** Place the nickel strip firmly against the battery terminal or metal sheet where you intend to weld.
2. **Position Welding Pens:** Hold one welding pen firmly on the nickel strip, then bring the second welding pen to the desired spot on the nickel strip, ensuring both tips are in contact with the strip and the underlying material. Apply firm but not excessive pressure.

Your browser does not support the video tag.

Video: Demonstrates the effect of spot welding on materials, showing the process of applying the welding pens to create a weld.

### 3. Initiate Weld:

- **Automatic Mode:** The device will automatically detect contact and initiate a weld after a short delay (0.5 seconds trigger time interval).
- **Manual Mode:** Press the Manual Spot Welding Key to initiate the weld.

4. **Inspect Weld:** After each weld, visually inspect the joint. A good weld should be strong and secure. If the weld is weak, adjust the gear setting or ensure better contact.

Your browser does not support the video tag.

Video: Shows the spot welding process on 0.15mm and 0.2mm thick materials, demonstrating the effectiveness of the welder.

## 7. MAINTENANCE

- **Cleaning:** Regularly clean the tips of the welding pens with the provided metal file to remove any residue and ensure optimal conductivity.
- **Storage:** Store the spot welder in a cool, dry place away from direct sunlight and moisture.
- **Battery Care:** For long-term storage, ensure the battery is charged to approximately 50-75% to prolong its lifespan.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Weak welds / No weld	Low power setting; Dirty welding tips; Insufficient pressure; Material too thick.	Increase gear setting; Clean welding tips with file; Apply more firm pressure; Ensure material thickness is within specifications (max 0.2mm).
Device not turning on	Battery is depleted.	Charge the device fully.
Overheating	Continuous use without cooling; High ambient temperature.	Allow the device to cool down. The device has automatic overheating protection.

## 9. SPECIFICATIONS

<b>Brand</b>	Kerpu
<b>Model Number</b>	DSH
<b>Battery Capacity</b>	5000mAh (Lithium Polymer)
<b>Charging Input</b>	5V/2A (Type-C)
<b>Adjustable Gears</b>	11 Gears
<b>Welding Pen Length</b>	40cm / 16 inches
<b>Max. Welding Thickness</b>	0.2mm / 0.007 inches (nickel-plated sheet)

<b>Weight</b>	0.5 Kilograms / 1.1 pounds
<b>Material</b>	ABS

## 10. WARRANTY AND SUPPORT

Kerpu is committed to providing high-quality products and excellent customer service. If you encounter any issues or have questions regarding your spot welder, please do not hesitate to contact our expert after-sales team.

- **Technical Support:** Lifetime technical support is available.
- **Availability:** Our team is available 24 hours a day, 7 days a week.
- **Contact:** For assistance, please refer to the contact information provided in your product packaging or on the official Kerpu website. We are dedicated to ensuring a pleasant shopping experience and will assist with replacements or refunds as needed.

### 3 Colored Indicator Lights

There are diodes emitting different colors, with gentle light that does not harm the eyes, making it very clear which color represents which indicator light.



#### Output Mode

- ● Manual mode (Yellow light on right)
- ● Automatic mode (Yellow light on left)

#### Power Indicator Light

	<p>75%–100%</p> <p>50%–75%</p> <p>25%–50%</p> <p>5%–25%</p> <p>&lt;5%</p>
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#### Red light (gear indicator light)

<span style="color: red;">●</span> <span style="color: grey;">●</span> <span style="color: grey;">●</span> <span style="color: grey;">●</span> <span style="color: grey;">●</span> <span style="color: grey;">●</span> 7th gear	<span style="color: grey;">●</span> <span style="color: grey;">●</span> <span style="color: grey;">●</span> <span style="color: grey;">●</span> <span style="color: red;">●</span> 1st gear
<span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: grey;">●</span> <span style="color: grey;">●</span> <span style="color: grey;">●</span> <span style="color: grey;">●</span> 8th gear	<span style="color: grey;">●</span> <span style="color: grey;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> 2nd gear
<span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: grey;">●</span> <span style="color: grey;">●</span> <span style="color: grey;">●</span> 9th gear	<span style="color: grey;">●</span> <span style="color: grey;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> 3rd gear
<span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: grey;">●</span> <span style="color: grey;">●</span> 10th gear	<span style="color: grey;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> 4th gear
<span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: grey;">●</span> 11th gear	<span style="color: grey;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> 5th gear
	<span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> <span style="color: red;">●</span> 6th gear

Image: Illustration of Kerpu's customer support, highlighting lifetime technical support, 24/7 availability, and regular customer care.

