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> Seesii SE-209 Handheld Spot Welder User Manual

Seesii SE-209

Seesii SE-209 Handheld Spot Welder User Manual

Model: SE-209 | Brand: Seesii

1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation, maintenance, and troubleshooting of your Seesii SE-209 Handheld Spot Welder. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage or injury.



Image 1.1: The Seesii SE-209 Handheld Spot Welder, showing its compact design, integrated welding probes, USB-C charging cable, and a sample nickel strip.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when operating the spot welder.
- Do not operate the device in wet conditions or near flammable materials.
- Ensure the welding probes are clean and free from debris before each use.
- Avoid touching the welding probes or the welded material immediately after welding, as they will be hot.
- Keep the device out of reach of children.

- Do not attempt to disassemble or modify the device. Refer all servicing to qualified personnel.
- Use only the specified charging cable and power source.
- Do not weld directly onto battery terminals without proper nickel strips, as this can damage the battery or cause a short circuit.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Seesii SE-209 Handheld Spot Welder
- USB-C Charging Cable
- Nickel Strip (sample roll)
- User Manual (this document)



Image 3.1: The spot welder held in hand, alongside a USB-C cable, nickel strip, and other small accessories, illustrating the compact size and included components.

4. PRODUCT OVERVIEW

The Seesii SE-209 is a compact, portable spot welder designed for various battery pack assembly and repair tasks. It features an integrated design with welding probes, a display screen, and adjustable power settings.

4.1 Key Features

- Integrated welding probes for convenience.
- Digital display for settings and status.
- Adjustable power levels (gears).
- Automatic and Manual welding modes.
- Built-in rechargeable battery (5000mAh).
- USB-C charging.



5. SETUP

5.1 Initial Charging

1. Before first use, fully charge the spot welder. Connect the USB-C charging cable to the device's charging port and to a suitable USB power adapter (not included).
2. The display will indicate charging status. Charging typically takes several hours.
3. Once fully charged, disconnect the charging cable.



Image 5.1: The spot welder connected to a USB-C charging cable, with a graphic indicating its 5000mAh battery capacity and charging status.

5.2 Preparing for Welding

- Ensure the welding probes are clean. If necessary, gently sand the tips with fine-grit sandpaper to remove any oxidation or residue.
- Prepare the nickel strip and battery terminals. Both surfaces must be clean and free of dirt, grease, or corrosion for optimal welding.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

Press and hold the power button (usually located on the side or top) for a few seconds to turn the device ON or OFF. The display will illuminate when powered on.

6.2 Mode Selection and Gear Adjustment

The device typically offers "Automatic" and "Manual" welding modes, along with adjustable power levels (referred to as "Gears").

1. **Mode Selection:** Use the designated button (refer to your device's specific button layout) to switch between Automatic and Manual modes.
 - **Automatic Mode:** The device detects contact with the nickel strip and battery, then automatically triggers the weld after a short delay.
 - **Manual Mode:** The weld is triggered by pressing a button after positioning the probes.
2. **Gear/Power Adjustment:** Use the '+' and '-' buttons to adjust the welding power (gear level). Higher gear numbers

correspond to higher welding power. Start with a lower gear and gradually increase until a strong weld is achieved.

3. **Delay Adjustment (if available):** Some models allow adjusting the pre-weld delay in Automatic mode.



Image 6.1: A visual guide illustrating the effect of different gear settings on the weld spot, ranging from Gear 1 (1.0-1.9) to Gear 80 (8.0 max), demonstrating how to select appropriate power for various nickel strip thicknesses.

6.3 Welding Process

1. Place the nickel strip onto the battery terminal where you intend to weld.
2. Position both welding probes firmly and evenly onto the nickel strip, ensuring good contact with both the strip and the battery terminal underneath. Apply moderate pressure.
3. **In Automatic Mode:** The device will detect the contact and automatically trigger the weld after a short delay.
4. **In Manual Mode:** Press the trigger button to initiate the weld.
5. After the weld, lift the probes. Inspect the weld joint. A good weld should be firm and slightly discolored, indicating proper fusion.
6. Repeat the process for additional weld spots as needed.



Image 6.2: A technician using the Seesii SE-209 to spot weld nickel strips onto cylindrical batteries, demonstrating a common application.



SOLDADURA POR PUNTOS DE BATERÍAS DE TELÉFONOS MÓVILES

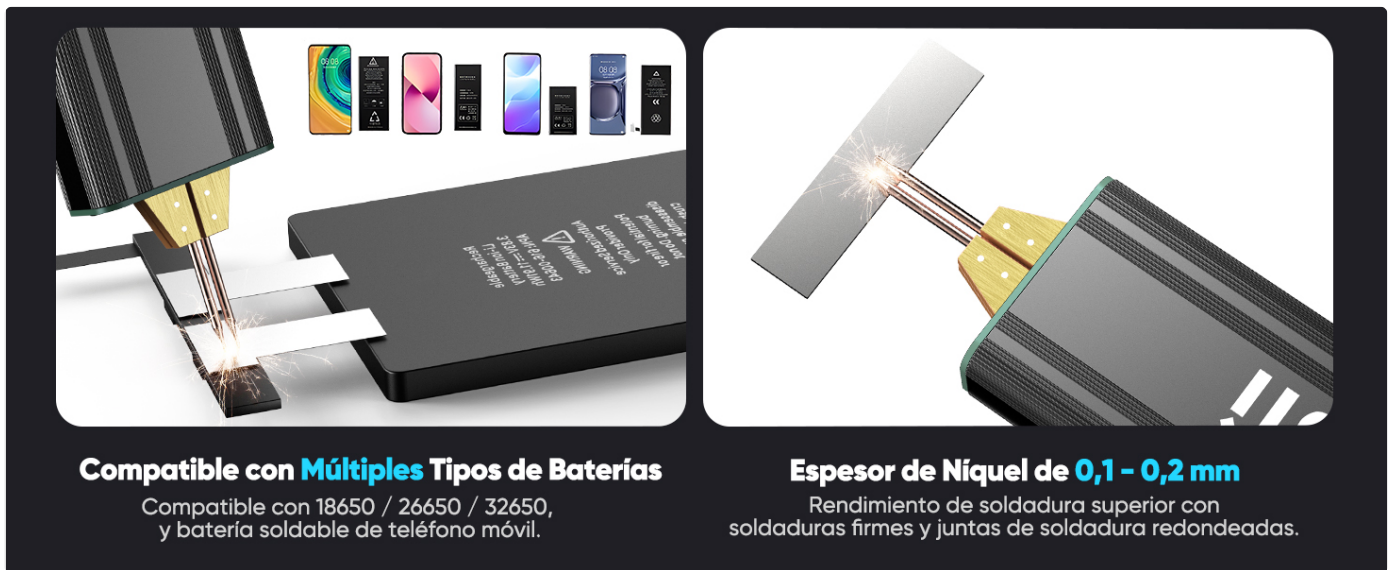
Image 6.3: A close-up of a technician performing spot welding on a mobile phone battery, highlighting the precision possible with the handheld device.



Image 6.4: An individual using the spot welder to attach a tab to a button cell battery, illustrating its versatility for small components.

6.4 Compatible Materials

- The Seesii SE-209 is designed for spot welding nickel strips to various battery types, including 18650, 26650, 32650, and mobile phone batteries.
- It supports nickel strip thicknesses of 0.1mm to 0.2mm.



Compatible con Múltiples Tipos de Baterías

Compatible con 18650 / 26650 / 32650, y batería soldable de teléfono móvil.

Espesor de Níquel de 0,1 - 0,2 mm

Rendimiento de soldadura superior con soldaduras firmes y juntas de soldadura redondeadas.

Image 6.5: An illustration detailing the spot welder's compatibility with various battery types (18650, 26650, 32650, mobile phone batteries) and its capability to weld nickel strips between 0.1mm and 0.2mm thickness.

7. MAINTENANCE

7.1 Cleaning

- After each use, ensure the device is powered off and cool.
- Wipe the exterior with a soft, dry cloth.
- Gently clean the welding probe tips. If they become oxidized or pitted, carefully sand them with fine-grit sandpaper to restore good conductivity.
- Do not use abrasive cleaners or solvents.

7.2 Storage

- Store the spot welder in a cool, dry place, away from direct sunlight and moisture.
- Keep it in its original packaging or a protective case to prevent damage.

7.3 Battery Care

- To prolong battery life, avoid fully discharging the device frequently.
- If storing for extended periods, charge the battery to approximately 50-70% and recharge every 3-6 months.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Weak or inconsistent welds	Low battery charge Insufficient power setting (gear) Dirty or oxidized probe tips Poor contact with nickel strip/battery Nickel strip too thick	Charge the device fully. Increase the gear level. Clean or sand the probe tips. Apply firm, even pressure. Use appropriate nickel strip thickness (0.1-0.2mm).
Device does not turn on	Battery fully discharged Power button not held long enough	Connect to charger and allow time to charge. Press and hold the power button for 3-5 seconds.
Overheating	Excessive continuous use High power setting for prolonged periods	Allow the device to cool down. Reduce welding frequency or power setting.

9. SPECIFICATIONS

Feature	Detail
Model Number	SE-209
Manufacturer	Seesii
Dimensions (Package)	28.5 x 8.2 x 4.1 cm
Weight (Package)	430 grams
Power Source	Battery Powered
Battery Type	NiMH (Internal, 5000mAh capacity implied by images)
Charging Port	USB-C (implied by images)
Nickel Strip Thickness	0.1 - 0.2 mm

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the point of purchase or

contact Seesii customer service directly. Keep your purchase receipt as proof of purchase.

For general inquiries or to find more information about Seesii products, visit the official Seesii website (if available).