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AGOAL 646

AGOAL 8000W Spot Welder Instruction Manual

Model: 646

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your AGOAL 8000W Spot Welder. Designed for precision welding of nickel strips, 18650 battery packs, and mobile phone batteries, this device features a powerful 9500mAh rechargeable battery and adjustable settings for optimal performance. Please read this manual thoroughly before first use to ensure proper handling and to maximize the lifespan of your spot welder.

2. SAFETY INSTRUCTIONS

Always adhere to the following safety guidelines to prevent injury or damage to the device:

- Ensure the work area is clean, dry, and well-ventilated.
- Wear appropriate personal protective equipment (PPE), including safety glasses, during operation.
- Do not operate the spot welder near flammable materials or gases.
- Keep hands and other body parts clear of the welding pens during operation.
- Do not attempt to weld materials thicker than 0.3mm nickel strips.
- Always disconnect the power supply before cleaning or performing maintenance.
- Keep out of reach of children.
- Do not disassemble or modify the device.
- Fully charge the device before first use and recharge when the voltage is below 7.3V.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- AGOAL 8000W Spot Welder Unit
- Welding Pens (2x, 47cm length)
- Foot Pedal
- Power Adapter/Charger
- Nickel Strips (sample)
- User Manual (this document)



Figure 3.1: Complete package contents of the AGOAL 8000W Spot Welder, including the main unit, welding pens, foot pedal, power adapter, and sample nickel strips.

4. PRODUCT OVERVIEW AND FEATURES

The AGOAL 8000W Spot Welder is a high-performance tool designed for various battery welding applications. Key features include:

- **High Power Output:** 8000W peak power for efficient welding.
- **Integrated Rechargeable Battery:** Equipped with a 9500mAh battery for extended use.
- **LCD Digital Display:** Clearly shows battery level and voltage, prompting timely recharging.
- **Adjustable Power Levels:** 9 adjustable gears controlled by a knob for precise welding.
- **Durable Welding Pens:** Two 47cm welding pens with good conductivity and low contact resistance. The tips are replaceable.
- **Compact and Portable:** Lightweight design (5.91 x 3.86 x 1.97 inches) for easy transport and use in various settings.
- **Versatile Application:** Ideal for spot welding 0.1-0.3mm nickel strips, 18650 battery packs, and mobile phone batteries.

HIGH-RESOLUTION DIGITAL DISPLAY

You can clearly see the battery level
and recharge this machine in time.



Figure 4.1: The high-resolution LCD digital display provides real-time information on battery level and voltage, ensuring you know when to recharge.

9 Adjustable Gears

Easy to adjust the 9 levels of current by the knob.



Figure 4.2: The power adjustment knob allows users to select from 9 different current levels, providing flexibility for various welding tasks.



Figure 4.3: Close-up view of the 47cm welding pens, highlighting their durable construction and the easily replaceable tips for prolonged use.

5. SETUP

Follow these steps to set up your spot welder for the first time:

1. **Initial Charge:** Before first use, fully charge the spot welder using the provided power adapter. The LCD screen will indicate the battery level. Recharge the unit when the voltage drops below 7.3V.
2. **Connect Welding Pens:** Insert the two welding pens securely into their respective ports on the front of the spot welder unit.
3. **Connect Foot Pedal:** Plug the foot pedal into its designated port on the unit.
4. **Prepare Work Area:** Ensure your work surface is stable, non-conductive, and free from debris. Have your nickel strips and batteries ready.

Fast Charging & Rechargeable Battery

Built in 9600mah rechargeable battery for longer working time. (Please charge it before first use, and recharge it when the voltage is below 7.5V)



Figure 5.1: The spot welder connected to its power adapter for charging. It is crucial to fully charge the device before its initial operation.

6. OPERATING INSTRUCTIONS

Operating the AGOAL 8000W Spot Welder is straightforward:

1. **Power On:** Turn on the spot welder using the power switch.
2. **Adjust Power Gear:** Use the power adjustment knob to select the desired current level (1-9 gears). Start with a lower setting for thinner nickel strips (e.g., 0.1mm) and gradually increase for thicker ones (up to 0.3mm).
3. **Position Materials:** Place the nickel strip firmly onto the battery terminal where you intend to weld.
4. **Initiate Weld:** Position both welding pens onto the nickel strip, ensuring good contact with the battery terminal underneath.
5. **Activate Welding:** Press and hold the foot pedal for approximately 0.5 seconds. The red light on the unit will flash 3 times, indicating a successful weld. Release the foot pedal immediately after the flashes.
6. **Inspect Weld:** Carefully check the weld joint for strength and integrity. Adjust the power setting if the weld is too weak or too strong.
7. **Repeat:** Move to the next welding point and repeat the process. For optimal results, allow a brief pause (e.g., 30 seconds)

between welds, especially for continuous operation, to ensure consistent weld strength.



Figure 6.1: A user demonstrating the spot welding process, pressing the foot pedal to activate the weld on a battery pack. The foot pedal ensures precise timing and control.

MUTIPLE USAGES

Great for spot welding 0.1-0.3mm nickel strips, 18650 battery packs and most of mobile phone batteries.

Cylindrical battery



18650 / 26650 / 32650

Repair Phone Battery



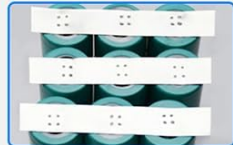
Simple operation



Solidly welded



Solder joint integrity



Lithium battery
nickel sheet welding

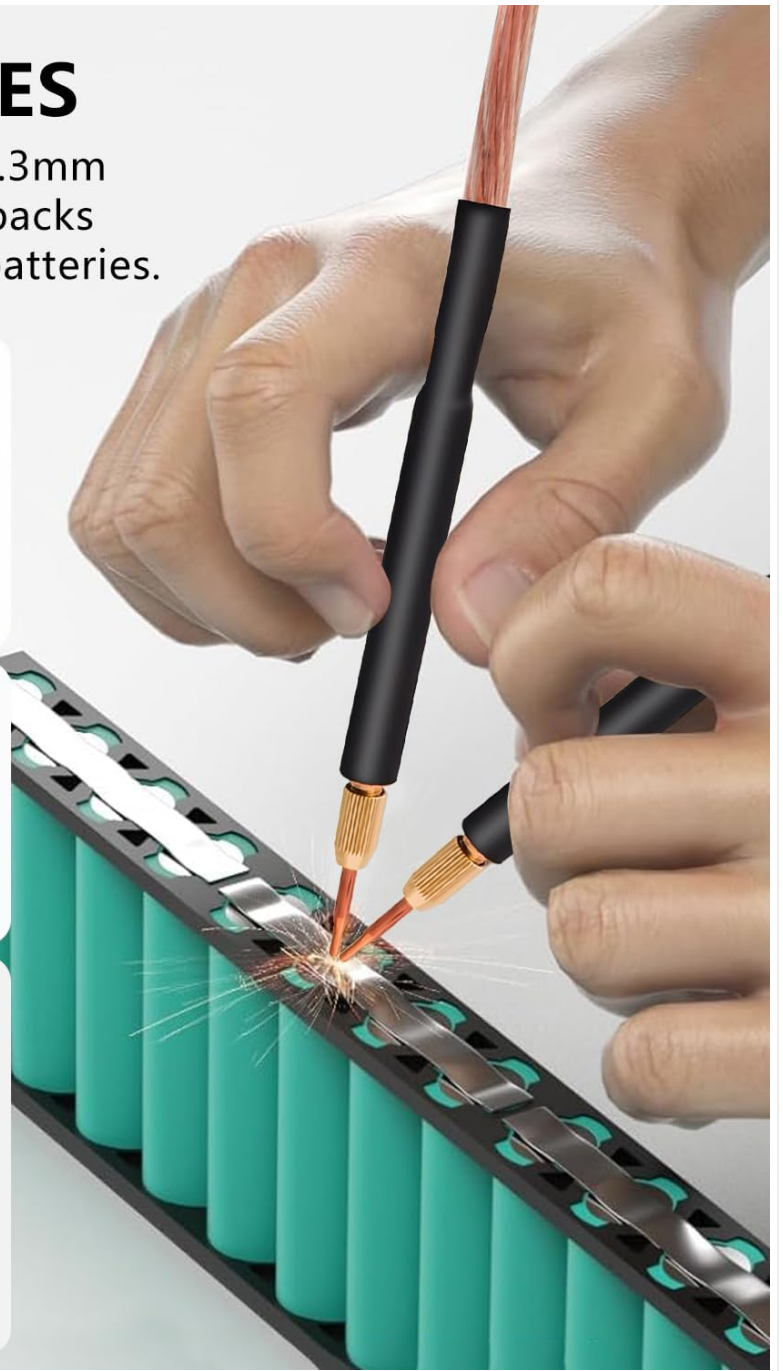


Figure 6.2: The spot welder's versatility is shown, capable of welding cylindrical batteries (18650, 26650, 32650) and repairing mobile phone batteries, ensuring solid and integrated solder joints.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your spot welder:

- **Cleaning:** Regularly clean the welding pen tips to remove any residue. Use a fine-grit sandpaper or file if necessary to maintain good conductivity.
- **Tip Replacement:** The welding pen tips are replaceable. If they become excessively worn or damaged, replace them to ensure consistent weld quality.
- **Battery Care:** Always recharge the unit when the LCD display shows voltage below 7.3V. Avoid completely draining the battery. For long-term storage, charge the battery to approximately 50-70% and store in a cool, dry place.
- **Storage:** Store the spot welder in a dry environment, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your spot welder, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No weld or weak weld	Low battery, incorrect power setting, dirty/worn welding tips, poor contact with material.	Fully charge the unit. Increase the power gear setting. Clean or replace welding tips. Ensure firm contact between pens, nickel strip, and battery.
Unit not turning on or responding	Battery completely discharged, internal fault.	Connect to charger and allow sufficient time to charge (especially if deeply discharged). If problem persists, contact customer support.
Overheating	Continuous use without cooling period.	Allow the unit to cool down between welding sessions. Avoid rapid, continuous welds.
LCD display not working	Unit off, battery too low, display fault.	Ensure unit is powered on. Charge the battery. If still not working, contact customer support.

9. SPECIFICATIONS

Feature	Detail
Model Number	646
Brand	AGOAL
Power Output	8000W
Battery Capacity	9500mAh (rechargeable)
Adjustable Gears	9 Levels
Welding Thickness	0.1-0.3mm Nickel Strips
Welding Pen Length	47cm
Product Dimensions	5.91 x 3.86 x 1.97 inches
Item Weight	1.54 pounds

10. WARRANTY AND SUPPORT

AGOAL stands behind the quality of its products. If you have any questions or encounter issues with your 8000W Spot Welder within 60 days of purchase, you are eligible for a replacement. Please retain your proof of purchase for warranty claims. For further assistance, please refer to the contact information provided on the product packaging or the retailer's website.