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Model: 788H

PRODUCT OVERVIEW

The CYMYYDS 788H Pulse Spot Welder is a high-power, handheld spot welding machine designed for precise welding of various battery types, including lithium batteries, button batteries, and polymer batteries. It features a constant pulse spot welding mechanism, an adjustable welding pressure regulator, and an integrated LED lighting system for enhanced visibility.

This compact and portable unit is suitable for assembling and repairing electric vehicle batteries, as well as welding stainless steel hardware and mesh.



Figure 1: The CYMYDS 788H Pulse Spot Welder main unit, showcasing its compact design and various applications with electronic devices in the background.

PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Main Unit
- 1 x Foot Pedal
- 1 x Spot Welding Pen
- 1 x Nickel Plated Sheet
- 1 x Battery Holder
- 2 x Fuses
- 1 x Hex Key
- 1 x Warranty Card

- 1 x User Manual (this document)



Figure 2: All components included in the package, including the main unit, foot pedal, welding pen, nickel strips, battery holder, fuses, and hex key.

PRODUCT FEATURES

- **Portable Design:** Compact size and lightweight, with a wide voltage input (100-240V) for use in various locations.
- **Long Lifespan:** Capacitive pulse energy gathering technology and low power consumption allow for extended welding operations without overheating.
- **LED Illumination:** Dual high-brightness LED lighting for clear visibility during spot welding, even in low-light conditions.
- **Foot Pedal Control:** Equipped with a foot pedal interface for precise and reliable welding control.
- **Adjustable Welding Pressure:** Welding pressure regulator allows continuous adjustment from 300g to 700g, accommodating different material thicknesses.

- **Versatile Application:** Suitable for various battery sizes, button batteries, polymer batteries, stainless steel hardware, and stainless steel mesh.

SETUP INSTRUCTIONS

1. **Unpacking:** Carefully remove all components from the packaging. Retain the packaging for future storage or transport.
2. **Placement:** Place the main unit on a stable, flat, and dry surface. Ensure adequate ventilation around the unit.
3. **Power Connection:** Connect the power cord directly to a stable power outlet. *Do not use a power strip*, as this may cause tripping or unstable power supply.
4. **Foot Pedal Connection:** Plug the foot pedal into the designated foot control interface on the front panel of the main unit.
5. **Welding Pen Connection:** Connect the spot welding pen to the appropriate terminals on the main unit. Ensure a secure connection.
6. **Initial Inspection:** Before powering on, visually inspect all connections and ensure no foreign objects are near the welding area.

Function Diagram

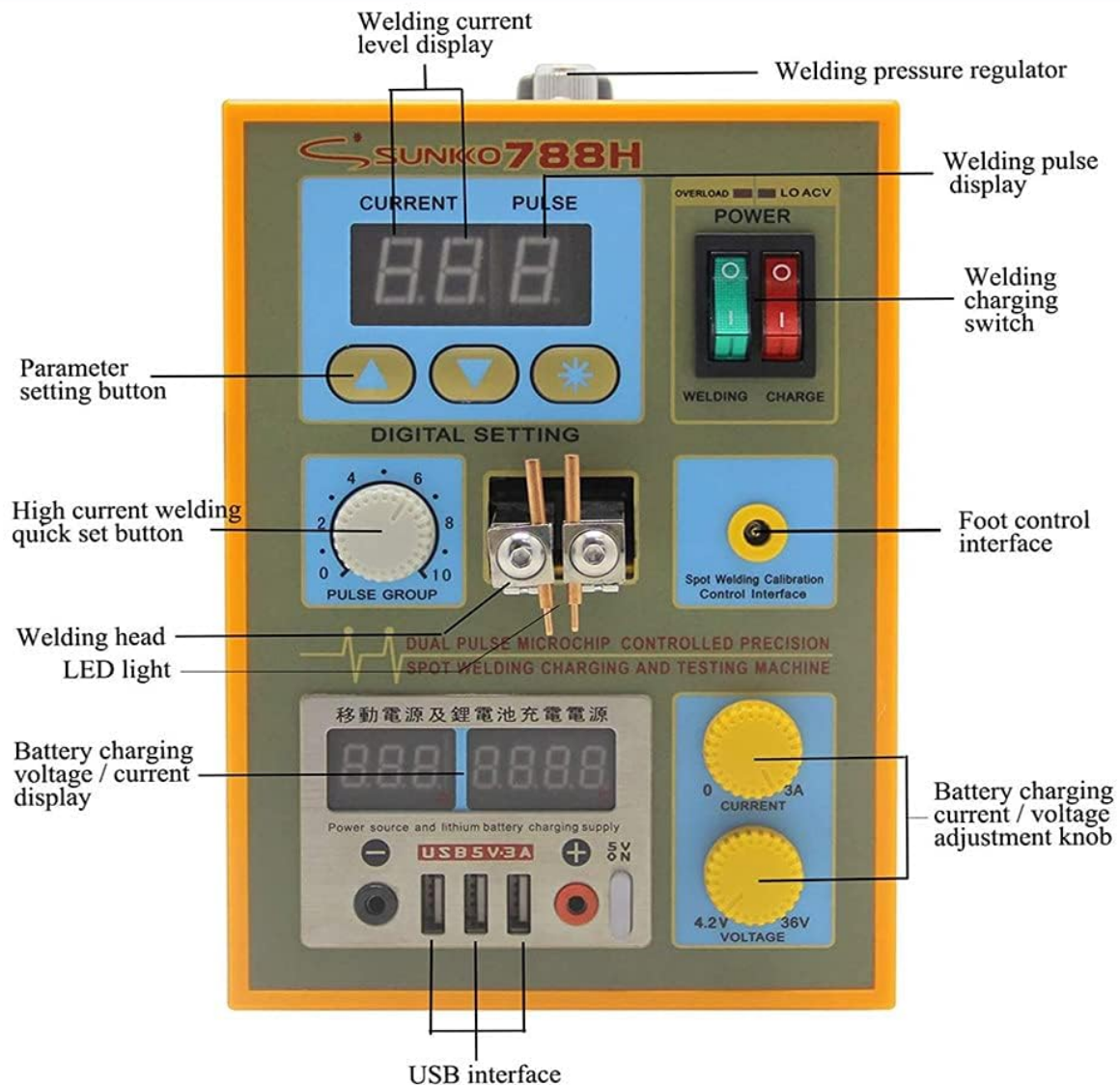


Figure 3: Front panel diagram illustrating the various controls and connection points, including the welding current display, pulse display, power switch, foot control interface, and USB ports.

OPERATING INSTRUCTIONS

1. **Power On:** Flip the main power switch to the "ON" position. The display will illuminate.
2. **Select Mode:** Use the "WELDING/CHARGE" switch to select the desired operation mode (Welding or Charging).
3. **Adjust Welding Pressure:** Set the welding pressure regulator to the appropriate value for your material thickness. The range is 300g to 750g. *Incorrect pressure can lead to poor welding results.*



Figure 4: The welding pressure regulator, adjustable from 300g to 750g, allowing for precise control based on workpiece thickness.

4. **Set Welding Current/Pulse:** Use the digital setting buttons and knobs to adjust the welding current and pulse settings according to the material and desired weld strength. Refer to the product specifications for recommended settings.
5. **Prepare Workpiece:** Ensure the surfaces to be welded are clean and free of oxides. Wipe off any oxides from the soldering pins with sandpaper if necessary.
6. **Perform Welding:** Position the welding pen tips firmly on the workpiece. Press the foot pedal to initiate the welding pulse. Release the foot pedal once the weld is complete.

3 rows batteries welded by fixed welding



- ☒ Spot welding
- ☒ Charging
- ☒ Welding range:
0.05-0.25mm

Figure 5: Demonstrating the spot welding process on a battery pack, highlighting the machine's capability for fixed welding of multiple battery rows.

7. **Charging Function (if applicable):** If using the charging function, connect the battery to be charged to the appropriate charging ports and adjust the current/voltage knob as needed.
8. **Power Off:** After use, turn off the main power switch and disconnect the unit from the power outlet.

MAINTENANCE

- **Cleaning:** Regularly clean the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Welding Pin Maintenance:** Keep the surface of the welding pins clean. If oxides build up, gently wipe them with fine sandpaper to ensure optimal conductivity and welding performance.
- **Storage:** When not in use, store the spot welder in a dry, cool place, away from direct sunlight and excessive dust.
- **Fuse Replacement:** If the unit fails to power on or operate correctly, check the fuses. Replace blown fuses with new ones of the same rating (2 included in package). Refer to the diagram for fuse location.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	No power from outlet; Blown fuse; Loose power connection.	Check power outlet; Replace fuse; Ensure power cord is securely plugged in.
Poor welding results (weak welds, burning).	Incorrect welding pressure; Dirty welding pins; Incorrect current/pulse settings; Unstable power supply.	Adjust welding pressure; Clean welding pins with sandpaper; Adjust current/pulse settings; Ensure direct connection to stable power outlet (avoid power strips).
Foot pedal unresponsive.	Foot pedal not connected properly; Faulty foot pedal.	Check foot pedal connection; Test with another foot pedal if available (contact support if faulty).
Overheating during operation.	Prolonged continuous use; Insufficient ventilation.	Allow unit to cool down; Ensure clear ventilation slots; Operate within recommended duty cycle.

SPECIFICATIONS

Parameter	Value
Output Current	0 - 3A
Output Power	38 W
Maximum Welding Current	800A
Welding Pressure	300 - 750g
Output Voltage	20 V DC
Body Dimensions (L×W×H)	140 × 245 × 200 mm
Weight	5.5 kg
Welding Range	0.05 - 0.25 mm (Nickel Sheet Thickness)

Spot Welder Induction Spot Welding Pen



Welding pressure regulator: 300g-750g, easy to weld different workpieces



Equipped with handle for easy mobility



Figure 6: Dimensional overview of the spot welder, showing its length, width, and height for proper placement and storage.

WARRANTY AND SUPPORT

This product comes with a warranty card included in the package. Please refer to the warranty card for specific terms and conditions of your product warranty.

For any questions during use, technical assistance, or warranty claims, please contact the seller or manufacturer directly. Contact information can typically be found on the warranty card or the product packaging.

We are committed to providing satisfactory products and support.

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