Troubleshooting

Error Types	Issues	Solutions		
Panel display	Are the welding pins in contact with each other?	Keep welding pins separate and keep welding pen copper wires separate		
"E01"	Oxidation of welding pins	Use a grinder to remove the oxidation layer		
Weak spots	Is the voltage under 5.2?	Charge the machine to between 5.2~5.8 volts or higher		
No energy release	Is the adapter from GLITTER?	Use the GLITTER adapter		



Attentions

- 1.Power inside the capacitor has been released for safe transportation before leaving the factory. When you receive the machine, please turn it on, charge it for 20~30 minutes, and wait for the voltage to rise between 5.2~5.8V before spot welding.
- Use GLITTER adapter to work with the welding machine. An adapter from a third-party supplier will damage the device.
- 3. Please wear glasses and gloves during the welding process.
- 4. Removing the oxidation layer on welding pins is good for energy transfer.
- 5. Unplug the machine when it's not in use.
- 6. The welding current displayed instantaneously is pulse release, ordinary testing instruments cannot measure.
- 7. Welding materials should be cleaned before welding. Remove any oil stains or oxide layers on the surface to avoid poor welding.
- 8. Keep out of reach of children.
- 9. Unauthorized disassembly of the machine is not allowed and is unsafe.
- 10. Do not use the product in inflammable, explosive or water-spray environment.



Capacitor Energy-Storage Precision Pulse Spot Welder

User Manual



Thank you for choosing GLITTER series products, it will bring you convenience and efficiency for spot welding work. For optimal user experience, please read the manual carefully before using and keep it for future reference. Glitter has the rights to upgrade the machine and modify the manual with no more notices, thanks for understanding.

Product Features

- 1. Compared to the traditional AC spot welding machine, the new-designed 801D capacitor energy-storage spot welder has no interfere to the electric circuit, no more tripping problems.
- 2.The 801D adopts the latest energy-gathered pulse welding technology, it has a great welding power, the welding spot is nice and elegant, ensuring you a reliable welding effect.
- 3.The maximum welding power of the machine can be up to 12 KW, meeting the needs for large-batteries welding.
- 4.The welding power can be adjusted conveniently via two buttons according to the thickness of welding objects, the LED screen will display the welding parameters.
- 5.The machine is equipped with two super capacitors which have long working -life and large capacity, ensuring the low power-consumption and high output welding work.
- 'AT' (automatic welding) and 'MT' (foot pedal controlling) two welding modes help you finish the welding work easily and efficiently.
- 7. Compatible with 7 series mobile welding pen.
- 8. The compact aluminum alloy shell can effectively dissipate heat.
- 9. The LED screen will display the instantaneous current value during welding work.

Applications

Widely used in battery pack building&maintenance and common metal welding:

- Fast welding & maintenance of lithium iron phosphate battery packs or ternary lithium battery packs for electric bicycle, hoverboard, swing car, electric tool, home applicance, robot, etc.
- 2. Fast welding of NI-MH battery(nickel-metal hydride battery).
- 3. Fast welding & maintenance of small battery packs for mobile power supply, flashlight, etc.
- 4. Fast welding of polymer batteries for model airplane, bluetooth earphone, cellphone, laptop, automobile data recorder, bluetooth tire pressure monitor, etc.
- 5. Fast welding of circuit borad, battery connecting strip (nickel/nickel plated), electronic components, hardware parts, lead wires, etc.
- 6. Suitable for nickel, stainless steel, iron, brass, titanium, molybdenum, etc.

Parameters

Model	GLITTER 801D	Voltage Output	5~6V (Peak)	
Voltage Input	AC 100-240V 50/60HZ	Peak Welding Energy	238J	
Pulse Power	, , ,		AT/MT	
Energy Grade			Push down spot welding Mobile pen spot welding	
Pulse Time	0~20mS	Preload Delay 20~50mS		
Adapter Parameter	15V2A~3A(Peak)	Charging Time	20~30min	
Dimension	67(L)x176(W)x126(H)mm	Weight	2KG	

Packing List

- ①Main machine×1pc
- @Power adapter×1pc
- ③Foot pedal×1pc④Mobile welding pen(HB-73B)×1pair
- (5) Welding arm(73SA)×1pc
- @Hexagon spanner×1pc
- ⑦Base×1pc
- (®) Welding pin on the welding arm(73SA)×2pairs (®) Welding pin on the welding pen (HB-73B)×1pair
- @Manual & Warranty Card×1pc

vianual & Warranty Card

Installation diagram of handle controlled welding head

Standard with 73SA downward welding head



- Pressure adjustment
- Downward spot welding
- Easy to operate

☑ Spot welding is very solid ☑ Improve the welding quality and efficiency



The distance between of the welding needle and battery is 4-9mm.



1.Insert the welding head into the corresponding socket.



3. Tighten the screws. (Keep copper wires separate)



2.Remove the lid.



4. Close the lid.

Welding head parameter(73SA)

Handle Torque	950g	Handle Operation Angle	0-50°	
Welding Arm Operating Distance	15mm	Pressure Adjustment Range	1~9.5N	
Peak Welding Energy	238J	Welding Arm Width	44mm	

6. Cautions during welding process

- 1. You need to give each welding pin the same pressure to make sure the welding spots are all reliable.
- 2.MT mode is recommended for new users of 801D welding machine, the pressure you give shouldn't be too heavy or too light. Find the proper pressure for your project, and then you can try AT mode.
- 3. Keep two welding pins separate, or a shot circuit will occur.

General introduction of 801D spot welder

1. Power supply and mobile welding pen installation



①Plug the power output plug into 801D spot welder power connection port.



②Plug the adapter into an AC 100-240 volt wall socket to charge the machine.



3 Insert the mobile welding pen and make sure the connection is solid.

2.Introduction of the LED display



1. Turn on the welding machine, the buzzer will beep for 2 seconds.



2. After the machine is powered on for the first time, the LED will show "CH" intermittently and the real-time voltage value of the internal capacitor. The spot welder is being charged.



3. When the voltage is between 5.2 and 5.8V, the machine is ready for use.



4.Set energy grade---To customize the energy grade, you need to press the power button when the machine is on. The current number will flash, you can adjust the number through "▲/▼" buttons.



5. Press the power and the "▲/▼" buttons to change your spot welding mode, such as AT/MT switch.



6. When the machine is not in use, please press and hold the power button for 2 seconds and unplug the power adapter from the wall socket.

3. Charging time of different models

Model	801A	801A+	801B	801B+	801D
Charging Time	40min	40min	30min	20min	20min

4. Spot welding thickness reference table

Thickness	0.1mm	0.12mm	0.15mm	0.2mm	0.3mm
Pure nickel	06-08t	10-11t	12-15t	20-25t	60-70t
Nickel plated steel	03-04t	07-08t	10-12t	15-18t	40-50t

Please choose the proper energy grade and pulse current according to different object materials and thicknesses.

5. Operation steps

MT mode--control with foot pedal(Convenient for parameter adjustment and welding debugging to achieve the best spot welding effect).



1.Choose the MT mode





2.Install foot pedal 3.Hold the welding pen and apply a certain pressure to the object's surface (e.g. nickel strip) simultaneously. Release energy by controlling the foot pedal.



4. Check the spots' reliability. Finish spot welding.

AT mode--automatic welding (no foot pedal control, suitable for welding a large number of batteries for a long time)



1.Choose the AT mode



2. Hold the welding pen and apply a certain pressure to the object's surface (e.g. nickel strip) simultaneously. Automatic welding begins after about 20ms.



3. Check the spots' reliability. Finish spot welding.

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Main Machine and Base Display

Installation mode:



The welder's back should be inserted into the base vertically.



Welder with 73SA welding arm positioned in base.

Usage scenario:





Attach welder to base to prevent movement during welding process.

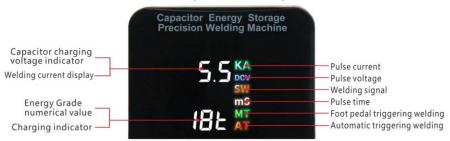
7 serial welding pen/optional

Model	HB-70A	HB-70BN	HB-71A	HB-71B	HB-73B
Illustration	1/0			The state of the s	
Welding method	One pin each welding pen	Two pins flat welding	Two pins flat welding	Single point butt welding	Two pins flat welding
Structure Differences	Separate Pins	Welding pins distance 3~7 mm(adjustable)	Welding pins distance 1~7 mm(adjustable)	Single point butt welding	Adjustable welding pressure, welding pins distance 3~7 mm(adjustable), pulse signal.
Applications	18650, 21700, lithium-ion, resistance, stainless steel net, etc.	18650, 21700, lithium-ion, iron, stainless steel, nickel, Mu, brass, titanium, etc.	Nickel sheet, circuit, blue teeth device repair, etc. Polymer battery, stainless steel, e		18650, 21700, lithium-ion, iron, stainless steel, nickel Mu, brass, titanium, etc.
Recomm- endation	Lithium battery welding	Lithium battery welding	Small hardware (similar with 70B's function)	Single-point butt welding	Normal battery pack welding

Product Diagram



Control panel sketch map



5.5 DCV

The charging voltage of the spot welder is 5.2~5.8.



The output welding current is 0.8KA.
The SW will light up during welding instantly.



This means the energy release is (25t).

The release energy grade for AT mode can be adjusted from 00 to 99.



MT is the foot control triggering mode.

E01 is spot welding fault indicator.

Annotation of unit symbols on the Control panel

KA: 1 KA equals to 1000 amps, 0.8KA=800A DCV: Direct voltage

ms: Millisecond

SW: Welding signal light

MT: Foot pedal control welding method AT: Automatic welding method