

Troubleshooting

Error Types	Issues	Solutions
Panel display "E01"	Are the welding pins in contact with each other?	Keep welding pins separate and keep welding pen copper wires separate
	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.
2. 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.

GLITTER® 801B
Super Energy-Gathered Pulse Technology

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 801B capacitor energy-storage spot welder has no interfere to the electric circuit, no more tripping problems.
2. The 801B 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 11.6 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.
6. '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:

1. Fast welding & maintenance of lithium iron phosphate battery packs or ternary lithium battery packs for electric bicycle, hoverboard, swing car, electric tool, home appliance, 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 board, 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 801B	Voltage Output	5~5.8V (Peak)
Voltage Input	AC 100-240V 50/60HZ	Peak Welding Energy	119J
Pulse Power	11.6KW (Peak)	Trigger Mode	AT/MT
Energy Grade	0-99T	Welding Mode	Rocker arm press down spot welding Mobile pen spot welding
Pulse Time	0~10mS	Preload Delay	20~50mS
Adapter Parameter	15V2A(Peak)	Charging Time	20~30min
Dimension	67(L)x176(W)x126(H)mm	Weight	2KG

Packing List

- ① Main machine×1pc
- ② Power adapter×1pc
- ③ Foot pedal×1pc
- ④ Mobile welding pen(HB-708N)×1pair
- ⑤ Rocker arm press down spot welding arm(73SA)×1pc
- ⑥ Hexagon spanner×1pc
- ⑦ Base×1pc
- ⑧ Welding pin on the welding arm(73SA)×2pairs
- ⑨ Welding pin on the welding pen (HB-708N)×1pair
- ⑩ Manual & Warranty Card×1pc

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	119J	Welding Arm Width	44mm

7 serial welding pen/optional

Model	HB-70A	HB-70BN	HB-71A	HB-71B	HB-73B
Illustration					
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, etc.	18650, 21700, lithium-ion, iron, stainless steel, nickel, Mu, brass, titanium, etc.
Recommendation	Lithium battery welding	Lithium battery welding	Small hardware (similar with 70B's function)	Single-point butt welding	Normal battery pack welding

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 801B 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 short circuit will occur.

General introduction of 801B spot welder

1. Power supply and mobile welding pen installation



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



② Plug 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.

*Power inside the capacitor is 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.

2. Introduction of the LED display



1. Power on / off—
Press the "▲"/"▼" button at the same time to turn on or turn off the spot welder. When the machine is not in use, please unplug the power adapter from the wall socket.



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—
Press the "▲"/"▼" button to increase or decrease energy grade.



5. AT mode—
Step 1: Turn off 801B spot welding machine.
Step 2: Press the "▲"/"▼" button at the same time.
Step 3: Turn on the spot welding machine and set the AT mode.



6. MT mode—
Step 1: Turn off 801B spot welding machine.
Step 2: Connect foot pedal and press down.
Step 3: Press the "▲"/"▼" button at the same time.
Step 4: Turn on the spot welding machine and set the MT mode.

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. Install foot pedal.



2. Turn on the spot welding machine and set the MT mode.



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. Please release the foot pedal and reboot the spot welder. The default setting is 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.

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.



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 the welding needle and battery is 4-9mm.



1. Insert the welding head into the corresponding socket.



2. Remove the lid.



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



4. Close the lid.

Product Diagram



Control panel sketch map



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 (10t). 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
SW: Welding signal light

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