



Lesite Technology

LST-C800

Ultrasonic Welding Machine

Manual

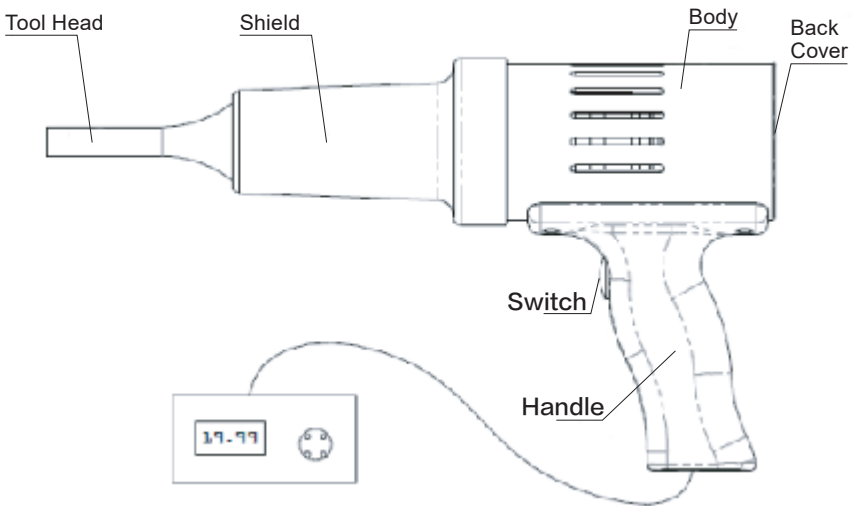
V1.0





Please read this manual carefully before using this machine, and keep it for future reference.

Schematic Diagram of Hand Welding Gun



Unpacking:

Open the package after receiving the goods. Check the appearance of power supply and hand welding gun to see if there is any damage. If there is any damage, inform the transportation company immediately. For the convenience of investigation, please keep the packaging materials in good condition.

Parameter

Model	LST-C800
Power	800 W
Frequency	28 K
Head Diameter	≤12 mm
Body Diameter	64 mm
Handle size	100 x 45 x 32 mm
Tuning Mode	Automatic Tuning
Incentive Mode	Automatic Incentive Type
Weight	1.2 kg

Preparation

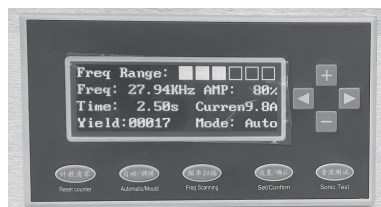


Pic2 Power Front Panel



Pic3 Power Rear Panel

1. After opening the package, place the power supply on a flat platform, and connect the 220V power cord with the power input terminal (power cord socket on Pic 3); Connect the ultrasonic hand welding gun with the output end (high-frequency ultrasonic output hole on Pic 2), and tighten the nut.
2. After connecting the power cord, hand welding gun to the chassis, please turn the power switch on the rear panel of the chassis to "ON (I)". The LCD screen in the front panel will display the interface shown in Pic 4.



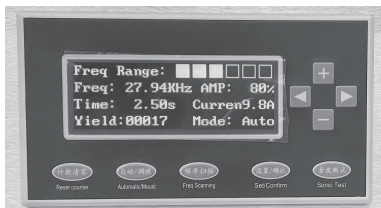
Pic4 Power-on Preview Screen

Operation

1. Confirm that the aviation plug of the ultrasonic hand welding gun is correctly connected with the socket on the front panel of the power supply, and tighten the aviation plug nut.
2. Turn on the power switch on the rear panel to ON (I).
3. After the power is on press the "Frequency Scan" button on the control panel to automatically start scanning the optimal working frequency of the hand welding gun. If the resonance frequency of the hand welding gun is within the tracking range of the power supply, the picture shown in Pic 5 will appear (here is an example of 35K power frequency search).

Note: After the frequency search is completed, the frequency range indicator bar is not full, indicating that the frequency search is normal.

If the resonance frequency is not within the tracking range of the power supply, a warning screen as shown in Pic 6 will appear. Please follow the prompts to test the device.



Pic5 Frequency Search Success Screen

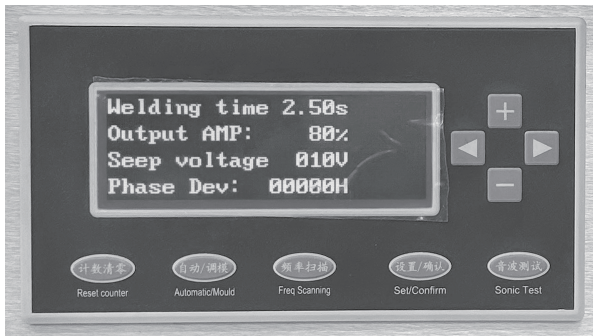


Pic6 Frequency Lockout Warning

4. The "Auto/Mode Adjustment" button is used to switch the working mode of the generator. The NC generator has two modes of automatic and manual control. In manual mode, connect the external control according to step 3.
5. The "sound wave detection" button is used to detect the ultrasonic vibrator and determine whether the vibrator vibrates normally. Hold it down and the vibrator starts to work. Release it and the vibrator stops working.

Switching Steps

6. The "Set/Confirm" button can adjust the equipment delay time, welding time, cooling time, vibration time (continuous working power supply does not have this control item) and amplitude input. Press the "Set/Confirm" button to enter the screen as shown in Pic 7. The "◀" and "▶" on the front panel are used to switch the previous and next options. The "+" and "-" increase and decrease respectively. You can adjust the parameter size according to your needs.



Pic7 Setup Screen

7. The "Count Reset" button can reset the output number. Add 1 to the output per work.

Work Environment

Use environment: indoor use;

Humidity: $\leq 85\%$ RH;

Ambient temperature: $0^{\circ}\text{C} - 40^{\circ}\text{C}$;

Chassis size: $315 \times 315 \times 115$ mm;

Use space: the distance between the surrounding objects and the equipment shall not be less than 150 mm, and the distance between the surrounding objects and the heat sink shall not be less than 200 mm.

Note: Do not remove the power supply, directly plug in or unplug the power supply or aviation plug. If you hear any abnormal sound or indication, please turn off the power immediately and then find out the cause of the fault, otherwise it is easy to damage the equipment or cause accidents.

Cool Down

The normal working temperature of the transducer shall not exceed 70°C . This manual welding gun has been equipped with a powerful fan for cooling.

When working, please pay attention to the heat uploaded through the tool head and the horn. If necessary, please add a fan to cool it to ensure the continuous and stable operation of the hand welding gun.

Replacement

Since the tool head will be worn, even broken or damaged after the manual welding gun has been working for a long time, the can be loosened and the damaged tool head can be replaced.

Note: The inside of the hand welding gun is a precision part with high voltage. It cannot be disassembled without permission or under the guidance of professionals.

Assurance

- This product guarantees a 12-month shelf life from the day it is sold to consumers. We will be responsible for failures caused by material or manufacturing defects. We will repair or replace defective parts at our sole discretion to meet the warranty requirements.
- The quality assurance does not include damage to wearing parts (heating elements, carbon brushes, bearings, etc.), damage or defects caused by improper handling or maintenance, and damage caused by falling products. Irregular use and unauthorized modification should not be covered by the warranty.

Maintanenca

- It is strongly recommended to send the product to Lesite company or authorized repair center for professional inspection and repair.
- Only original Lesite spare parts are allowed.





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