

# **Owner's Manual**

**CE FY-95G** 

The equipment is approved by a number of car manufacturers(China)



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8. Packing List



Protect yourself and others from injury, read and follow these precautions before installation and operation.



#### Read instructions. 1, Read owner's Manual before using or servicing unit.

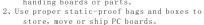
Use only manufacturer's supplied replacement.



Exploding parts can injure. Always wear a face shield and long sleeves。



Static can damage PC boards 1. Put on grounded wrist strap before handing boards or parts.





 Wear approved face shield or safety goggles with side shields.
 Wear proper body protection to protect skin.



Flying metal can injure eyes. 1)Wear safety glasses with side shields or face shield.



 Magnetic fields can affect pacemakers. Pacemaker wearers keep away.
 Wearers should consult their doctor before going near plasma arc cutting operations.



Overuse can cause overheating Allow cooling period , follow rated duty cycle before starting to weld again.

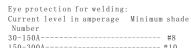


Do not weld in the height!









Electric shock can kill: 1. Do not touch live electrical parts.

body protection.

ical ground.

2. Wear dry, hole-free insulating gloves and

3. Do not wrap electrical cable around your

body. 4. Ground the workpiece with a good electr-

Fumes and gases can be hazardous welding produces fumes and gases. Breathing these fumes and gases can be hazardous to your health. If inside, ventilate the area. Do not weld in a confined space only if it is well ventilated.

150-300A	#10
300-500A	#12



The heat from the workpiece can cause serious burns.



Remove all flammables of the welding area.



Falling unit can cause injury.



Fire or explosion hazard. Do not locate unit on, over, or near combustibe surfaces.Do not install unit near flammables.





Protect yourself









Factory safety!

Maintenance regularly!

## Symbols and Definitions

Α	Amperes	1ma	Rated maximum X supply current	I	0n	%	Percent
V	Volts	1eff	Maximum effective supply current	0	Off	<b>(</b> )	Increase
2	Rated welding current	IP	Degree of protection		Protective earth (Ground)	〕⊳	Line connection
<b>S</b> 1	Power rating, product of voltage and current(KVA)	12	Single phase	$\bigcirc$	Do not do this		Loose shield cup
HZ	Hertz	Х	Duty cycle	S	Suitable for some hazardous locations	+ -	Adjust air/gas pressure
U <sub>1</sub>	Primary voltage		Direct current	Ð	Input	69	Automatic
U <sub>0</sub>	Rated no load voltage(Aaverage		Constant crrent		Voltage input	Ð	Manual
U <sub>2</sub>	Conventional load voltage	ŧ	Temperature	-0	Low air pressure light		

	Pneumatic vacuum cupule NO.FOO1		Pull hammer NO.F002		Vertical spot weldi pull hammer NO.F003
D	Claw puller NO. F004	$\sim$	Hook NO. F005	·····	Wriggle NO.F006
	Carbon Cod NO. F007		Spot welding electrode tip NO.F008		Carbon rod adap NO.F009
-	Waveform electrode tip NO.F010		Washer adaptor NO.F011		Electrode holder NO.F012
¢	Trianger washer adaptor NO.F013	D	Front part of puller NO.F014		Triangle wasler NO.F015
The second se	Stud NO.F016	$\bigcirc$	Washer NO.F017		Ground wire clamp NO.F018
<b>O</b>	Manual cupule NO.F019		Welding gun NO.F020		Front whee NO.F021
0	Back wheel NO.F022		Circuit board NO.F028		
$\bigcirc$	Control transformer NO.F025				

### Installation

### 1, specifications

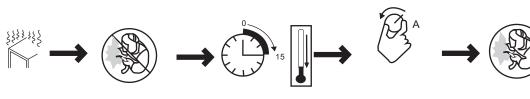
Input voltage	220V 50/60Hz
Output voltage AC1V-	10V Carbon rod heating AC6V-12V Washer fusion AC1V-13V Butt weld
Input power	1 O K W
Instant max.current	5400A
Input current	55A
)peration way	Continuity
Time regulation system	0-99ms
Operation place	Stepless
One side welding thickness	0.8+1.2(mm)
Vacuum cupule device	180kg
Dimension	620*450*980(mm)
Weight	80kg
i i gii t	

Image	Description	Time(s)	welding thickness	Power consumption (KVA)
	Triangle washer welding	0.9-1.5	0.6-1.2	FFF
	Washer welding	1.0-2.0	0.6-1.2	FFF
	Stud welding	0.5-0.7	0.6-1.2	FFF
	Sheet metal flattening	0.5-0.7	0.6-1.2	FFF
	Carbon rod heating	0.99	0.6-1.2	FFF
	Waveform wire welding	0.4-0.8	0.6-1.2	0.7-0.9

### 2. Duty Cycle and Overheating

Duty cycle is percentage of 10 minutes that unit can weld at rated load without overheating.

If unit overheat, output stops , and cooling fan runs . Wait fifteen minutes for unit to cool. Reduce amperage or duty cycle before welding.





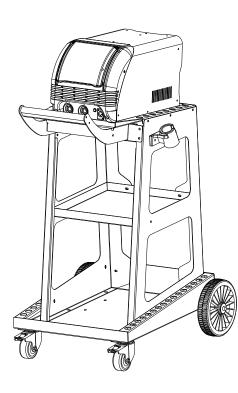
Stop working

Wait fifteen minutes for unit to cool

- Reduce amperage or Weld again reduce duty cycle

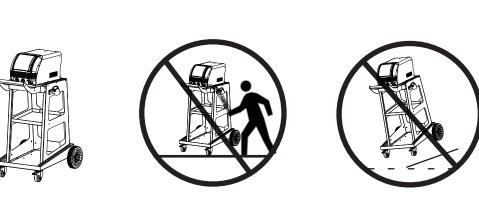
### 3. Machine Installation

- 1) Open the package and find out the owner's manual.
- 2) Check the supplied of accessories according to packing list that attached to this manual.
- 3)Properly install this equipment as following diagram. Inspect the unit for any problems. If so, contact your local distributor or service agency. To locate a distributor or service agency.

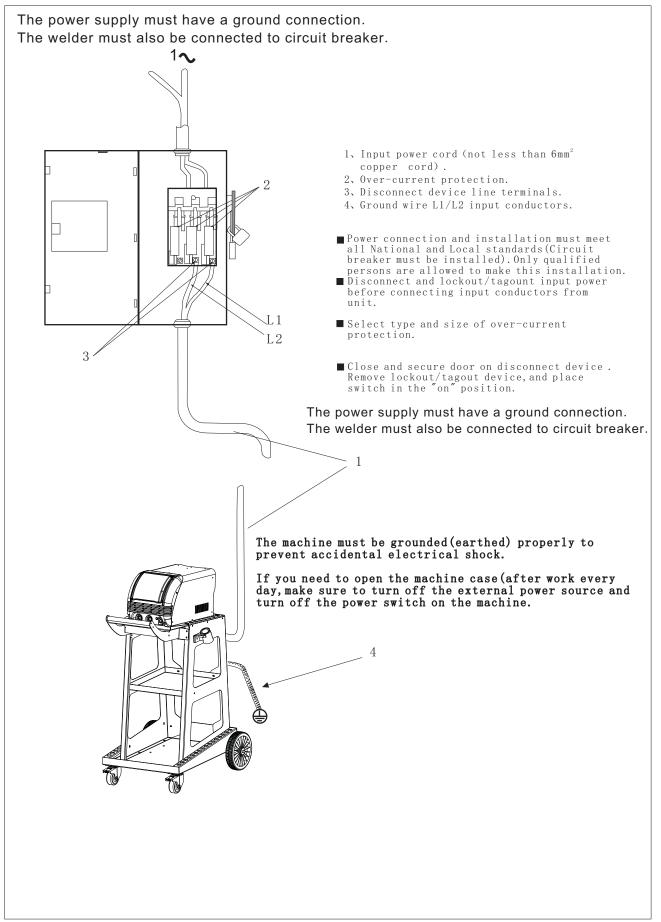


### 4. Selecting a Location

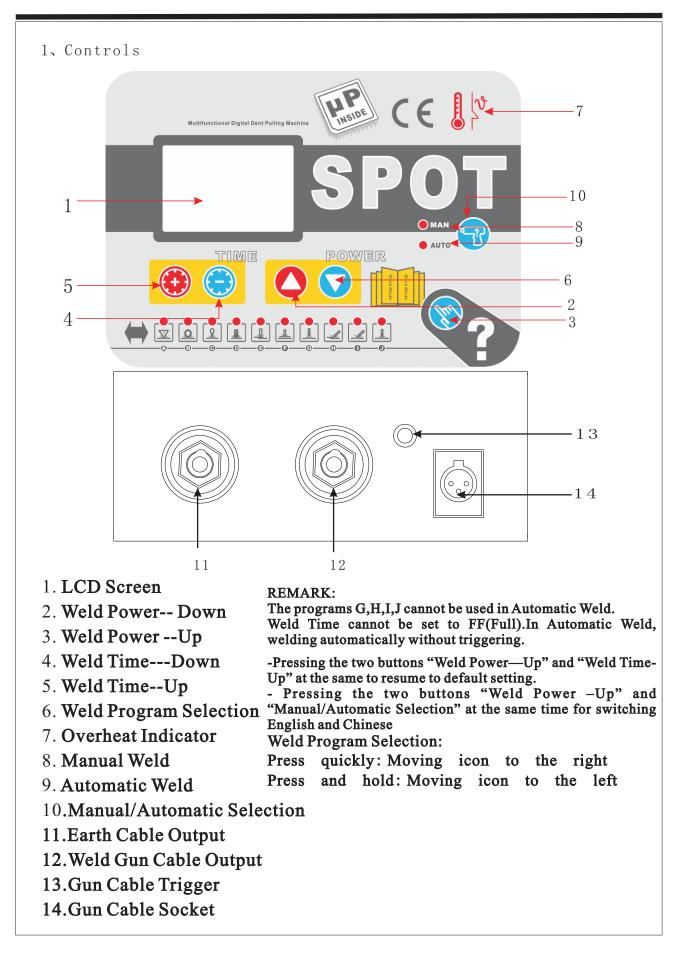
- 1) Select a correct location to place the unit.
- 2)Determine input power cord length according to its actual operation requirement . Make sure that the supply cable is at least 6mm<sup>2</sup>in diameter
- 3) Do not move or operate unit where it could tip.
- 4) Use cart or unit handle to move unit . Do not pull the cords to move unit.

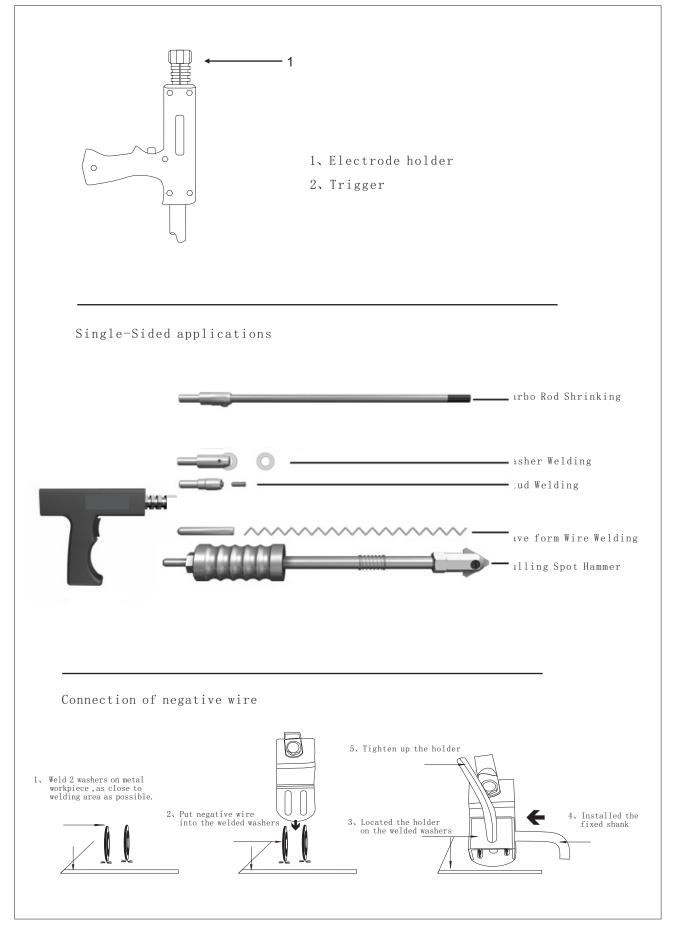


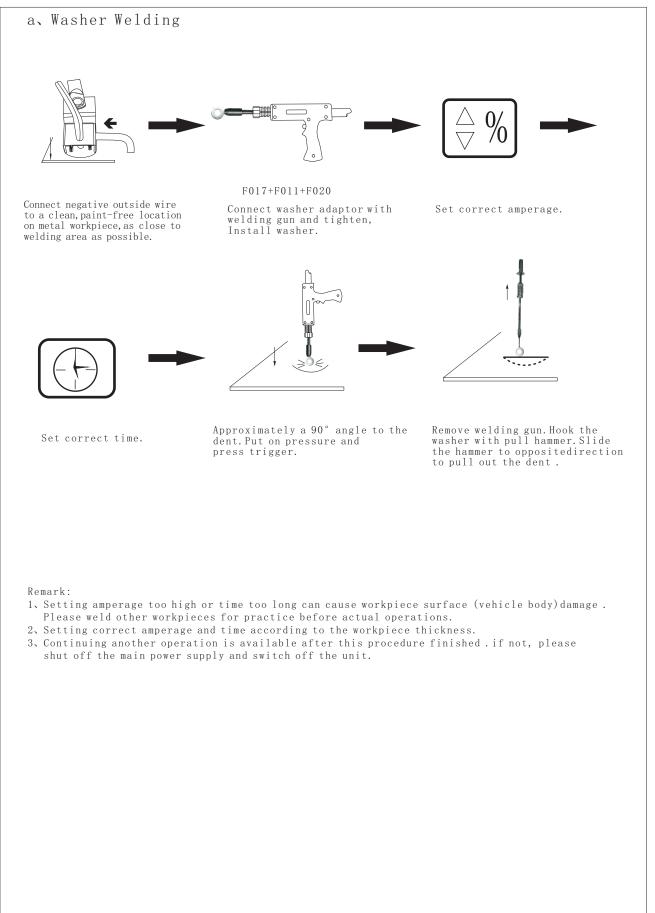
### 5, Connecting Input Power

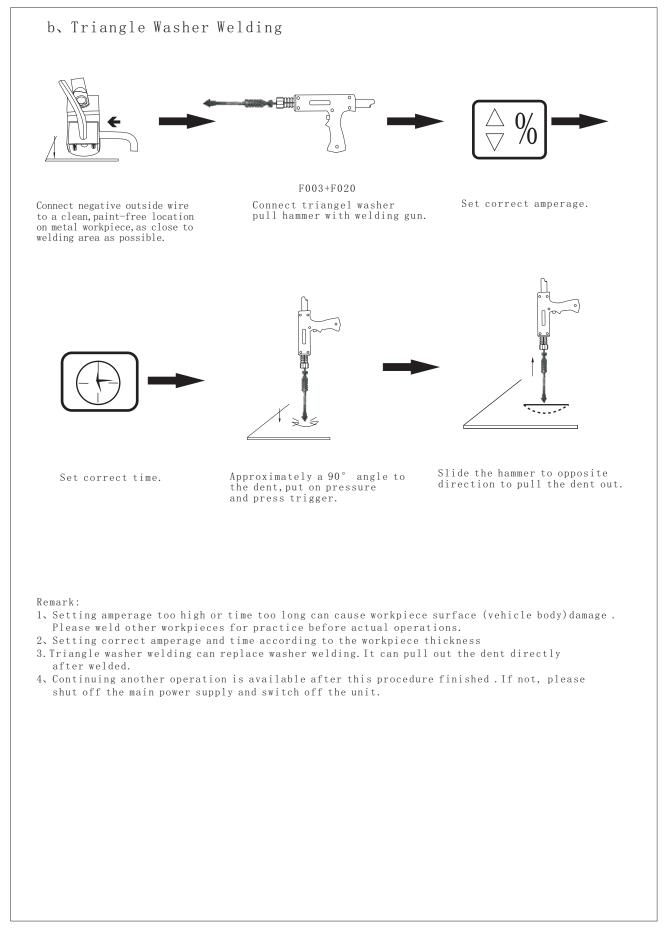


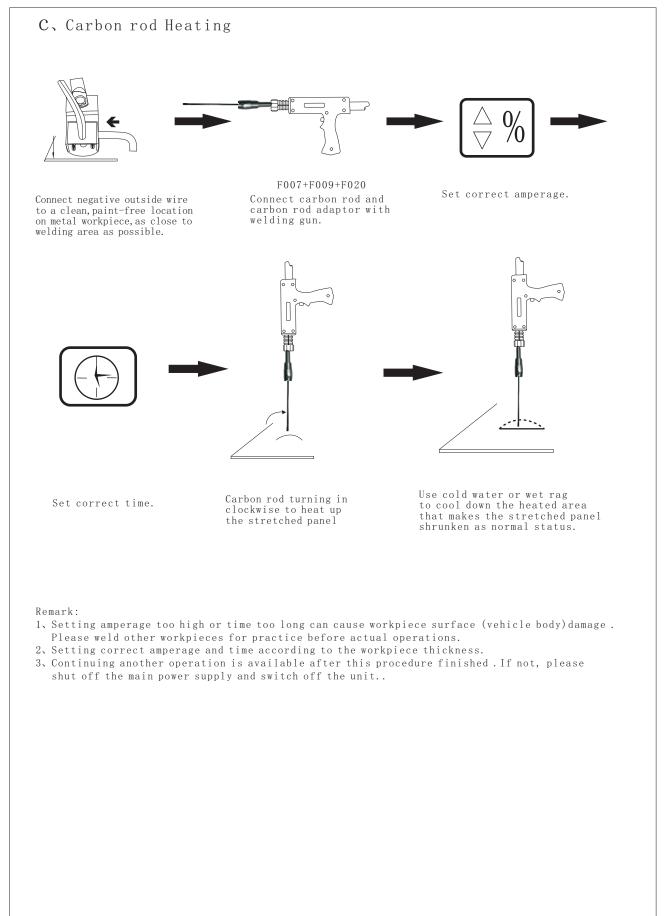
## Operation

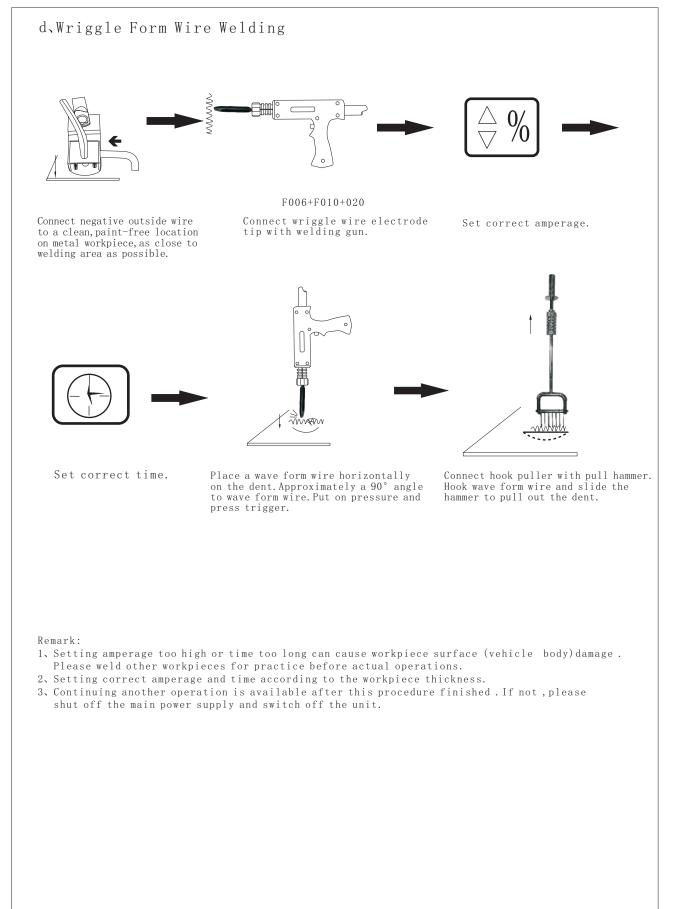






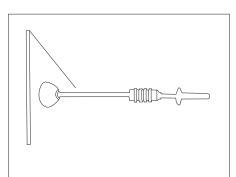






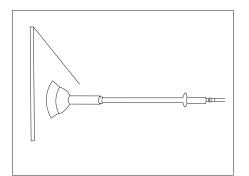
### 3、Operation

### e, Cupules



Manual operating cupule:

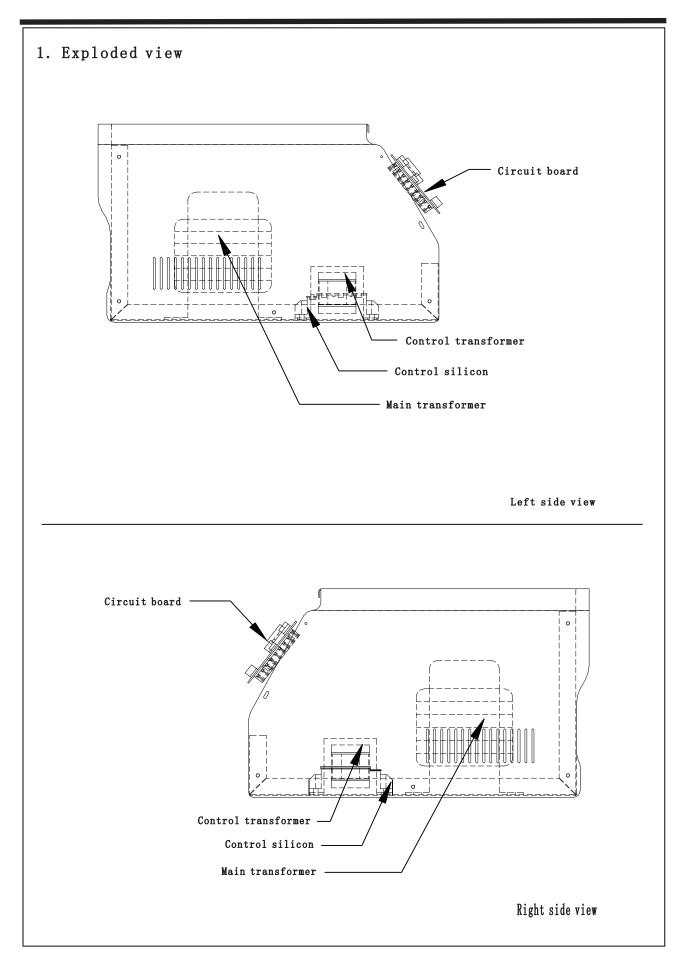
- Connect manual cupule with pull hammer.
- 2. Push manual cupule in to lock the cupule on the dent.
- 3. Slide the hammer to opposite direction to pull the dent out.



Pneumatic vacuum cupule:

- Connect gas/air supply with the adaptor of cupule.
- Open the valve, sticking cupule to the dent.
- 3. Slide the hammer to opposite direction pull the dent out.
- 4. Cupule falls off when close the valve.

## Maintenance



## Maintenance

### 2、Troubleshooting

Trouble	Reason	Remedy	
No welding output	<ul><li>(1) Connected power supply incorrectly.</li><li>(2) Power switch in off position</li></ul>	<ol> <li>Connect power supply according to manufacturer's instructions.</li> <li>Place power switch in "on" position.</li> </ol>	
Trigger not working	<ol> <li>(1) Trigger damaged.</li> <li>(2) Gun control wire broken.</li> <li>(3) Control wire plug loosen.</li> <li>(4) Mode switch in incorrect position.</li> </ol>	<ol> <li>(1) Replace trigger.</li> <li>(2) Connect again or replace if necessary.</li> <li>(3) Connect control wire plug again.</li> <li>(4) Place Mode switch in correct position.</li> </ol>	
Poor weld	<ol> <li>(1) Aamperage too low</li> <li>(2) Weld time too short.</li> <li>(3) Input power cord did not meet the requirement.</li> <li>(4) Ground clamp bad contact.</li> </ol>	<ol> <li>(1) Increase amperage setting.</li> <li>(2) Increase time setting.</li> <li>(3) Replace input power cord.</li> <li>(4) Change ground clamp location.</li> </ol>	
Piercing workpiece	<ol> <li>(1)output amperage too high.</li> <li>(2) Weld time too long.</li> <li>(3) Bad contact of electrode tip or washer with workpiece.</li> </ol>	<ol> <li>Reduce amperage setting.</li> <li>Rrduce weld time.</li> <li>Remove coating from material reduce added pressure.</li> </ol>	
Carbon rod working unstable	<ul> <li>(1)Carbon rod or workpiece is dirty</li> <li>(2) Incorrect amperage and time setting.</li> </ul>	<ul><li>(1)Polish carbon rod and workpieces</li><li>(2)Set amperage and time according to workpiece thickness.</li></ul>	
Unit stop working while operation	(1)Trigger plug loosen. (2)Gun control wire broken. (3)Over heating.	<ul><li>(1)Check gun control wire and trigger plug.</li><li>(2)Wait for temperature cool down.</li></ul>	