

Owner's Manual

CE FY-9000A

The equipment is approved by following car manufacturers (China) $% \label{eq:china} \label{eq:china}$



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Safety Precautions Symbols



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



Read instructions.

 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 $\ensuremath{\scriptscriptstyle \circ}$





- handing boards or parts.
- 2、Use proper static-proof bags and boxes to store, move or ship PC boards。



 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.



- 1、 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.



Cylinders can explode if damaged. Gas cylinders contain gas under high pressure. If damaged, a cylinder can explode. Be sure to treat them carefully.



Do not weld in the height!



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











Electric shock can kill:

body protection.

is well ventilated.

body.

1、Do not touch live electrical parts。

2. Wear dry,hole-free insulating gloves and

3. Do not wrap electrical cable around your

4. Ground the workpiece with a good electrical ground. 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



Moving parts can cause injury.



Keep away from moving parts such as fans.



The heat from the workpiece can cause serious burns.



Keep away from the torch tip.



Remove all flammables of the welding area.



Falling unit can cause injury.







Protect yourself









Factory safety!

Maintenance regularly!

Cylinders can exp

s or face



	Pneumatic vacuum cupule	(Pull hammer	 Vertical spot welding
D=+=	NO.F001 Claw puller	~	NO.F002	 pull hammer NO.F003 Wriggle
	NO.F004 Carbon Cod		NO.F005 Spot welding electrode	 Kriptol adaptor
	NO.F007 Waveform electrode tip	_	tip NO.F008 Washer adaptor	Electrode holder
Ć	NO.F010 Trianger washer adaptor	D	NO.F011 Front part of puller	NO.F012 Triangle wasler
MILLION OF	Stud	\bigcirc	Washer NO F017	Ground wire clamp
. (c°	Manual cupule	7	Welding gun	Front wheel
0	Back wheel	4 日本 日本 日本 日本 日本 日本 日本 日本 日本 日本 日本 日本 日本	Circuit board	NO.1 02
0	Control transformer		NO.F028	

Installation

1、specifications

Input voltage	Single phase 220V 50/60HZ
Output voltage	
Carbon Rod heating AC6	V-10V Washer welding AC1V-12V double-side welding AC1V-13V
Input power(KW)	22
Instant max. current (A)	5800
Input current(A)	57
Operation way	Electronic timer, continuity
Time regulation system	0-99ms
Operation place	Infinity
One side welding _thickness(mm)	1.0+1.2
Vacuum cupule device(kg)	180
Dimension (mm)	720*600*1550
$Weight\left(\kappa_g\right)$	86

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.



Overheating

Stop working

Wait fifteen minutes for unit to cool

Reduce amperage or reduce duty cycle

Weld again

3、Machine Installation

1)Open the package and find out the owner s manual.

2)Check the details of supplied 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 $_{\circ}$
- 2)Determine input power cord length according to its actual operation requirement.Input power cord must have a minimum inside diameter of 6mm².
- 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



1、Controls



7、Welding Programs

10、Power Indicator

11、Overheat Indicator

13、Automatic Indicator

14、Weld Gun Working indicator

12、Manual Indicator

15、Enter Indicator

17、Weld Gun Cable

16、Power Switch

18、Ground Cable

8、Automatic

9、Manual

4. In Manual mode, weld time means the switching time of welder which is controlled by the user. (Note: Automatic mode is generally recommended in using, The time control is accurate to 0.01 second.)
5. Set weld time and power. Push "Enter" button. "Enter Indicator " is on.

6. Welder is now enters into the work state. Welding is available.

7、To prevent damage to the welder caused by overheating, the system will automatically shut off the welder when a pre-programmed temperature is reached .Do not turn off the welder.Wait unit the indicator goes off(usually(5-10min).

2、Welding Gun and Adaptors











f、Cupules

Manual operating cupule:

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

Pneumatic vacuum cupule:

- 1、 Connect gas/air supply with the adaptor of cupule.
- 2、Open the valve ,sticking cupule to the dent.
- Slide the hammer to opposite direction to draw the concavity out.
- $4\,{\scriptstyle \smallsetminus}\,$ Cupule falls off when close the valve.

Maintenance

2、Troubleshooting

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

