

Owner's Manual

FY-5015L

The equipment is approved by following car manufacturers(China)



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Safety Precaution Symbols



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。 2. Use only manufacturer's supplied replacement.









Electric shock can kill:

body protection.

ical ground.

body.

Number

30-150A-----

Do not touch live electrical parts.
 Wear dry, hole-free insulating gloves and

3. Do not wrap electrical cable around your

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.

Eye protection for welding: Current level in amperage Minimum shade

Pay attention not to be crushed by the wheel of the wire feeder when installing welding wires and cleaning the inside of the machine.

- #8



Pay attention not to be scratched by the fan when installing welding wires and cleaning the inside of the machine.





- 1. Magnetic fields can affect pacemakers. Pacemaker wearers keep away.
- $2\,$ Wearers should consult their doctor before going near plasma arc cutting operations.

Flying metal can injure eyes.

shield.

store, move or ship PC boards.



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



Check the integrity of the gas cylinder before use. Any damage in the gas cylinder could cause explosions.



Do not weld in the height!

Remove all flammables away from the welding area.



Falling unit can cause injury.











Factory safety!

Maintenance regularly!

The heat from the workpiece can cause serious







burns.

Prevent fire or explosion hazard.





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









Definitions

Α	Amperes	1ma	Rated maximum X supply current		0n	%	Percent
V	Volts	1eff	Maximum effective supply current	0	Off	()	Increase
2	Rated welding current	IP D	legree of protection		Protective earth (Ground)	〕⊳	Line connection
S 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 ₁	Primary voltage		Direct current	Ð	Input	-0	Low air pressure light
U ₀	Rated no load voltage(Aaverage		Constant current		Voltage input	6	Automatic
U2	Conventional load voltage	ŧ.	Temperature		Power	Ð	Manual

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Accessories	and Spare	Parts	Llst:

	Pneumatic vacuum cupule NO.F001	·	Pull hammer NO.F002		Vertical spot welding pull hammer NO.F00
D	Claw puller NO.F004	\sim	Hook NO. F005	·····	Wrigg1 NO.F00
	Carbon Cod NO.F007		Spot welding electrode tip NO.F008	-	Carbon rod adapto NO.F00
	Waveform electrode tip NO.F010		Washer adaptor NO.F011		Electrode holde NO.F012
¢	Trianger washer ℵΦa₽O⊄B	D	Front part of Nβu₿0∉∉		Triangle wasle NO.F01
AND A	Stud NO.F016	\bigcirc	Washer NO.F017		Ground wire clam NO.F01
<u> </u>	Manual cupule NO.F019	Ó	Welding gun NO.F020		Circuit board NO.F02
	$\Phi5$ mm pulling screw		Φ4mm pulling screw		10A fus
\bigcirc	Control transformer NO.F025	×	Aluminium two-stand crossbar lifter	X	Aluminium four-stan crossbar lifte:
-	$\Phi5\rm{mm}$ stud adapter		$\Phi4\rm mm$ stud adapter	2	Tool
	$\Phi5$ mm stud hook		$\Phi4\text{mm}$ stud hook	00	Ф12mm washe
	$\Phi5$ mm aluminium stud	1111	$\Phi4\text{mm}$ aluminium stud	-	Tool bo
QQ	$\Phi5$ mm pulling ring	QQ	$\Phi4$ mm pulling ring	in a second	Polishe

Remark:

- 1), Optionnal orders for above accessories and components are available.
- 2), Model and parts number required when ordering parts from your local distributor.

Installation

1, specifications				
Model	Alu Dent Puller	Model Steel	Dent Puller	
Input voltage	AC 220V	Input voltage	AC 220V	
Phases	Single phase	Phases	Single phase	
Frequency	50/60Hz	Frequency	50/60Hz	
Input current	2.0A	Output voltage	1-13V	
Output current	600A	Input power	18KVA	
Fuse	4 A	Max instantaneous current	2200A	
Insulation grade	e H grade	Input current	54A/18A	
Capacitance	66000 UF		tronic timer continuously	
Charging voltage	e 50-150V	Time regulation system	0-99s	
Stud diameter	$\Phi3-\Phi6$ mm	One side welding thicknes	s 0.8+1.2	
Duty cycle	80%			

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

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

- 2)Check the 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.



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 6mm²indiameter
- 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. Aluminium Dent Puller Controls



- A. Voltage display B. Voltage indicator
- C. Voltage selector D. Power indicator
- E. Overheat indicator
- F. Gun trigger indicator
- G. Over-voltage indicator
- H1/H2. Earth cable
- J/K. Gun cable

It is easy and simple to operate the stud welder even though you have no relevant experience. Firstly, you could turn the main power switch to the "on" position and adjust the current according to relevant stud diameters. Put the chosen stud into the gun, then the welding process could be started. The greases of the workpiece surface should be cleared every time before welding to avoid poor contact. It has a little welding spatter, please wear glasses and gloves.

You could get the best result by connecting H1 and H2 with both edges of the workpiece surface for large area welding (you could choose either H1 or H2 for small area welding).

Weld metallic stud or post form components in sheet metal.

The diameter of studs is 3mm-6mm. The welder is based on stud welding technology. It has advantages as high efficiency, low heat emission for workpiece surface, quality weld appearance, firm welded joint and low energy consumption. It could save your time and materials with excellent weld quality (great strength, no distortion, no leakage), easy and simple operation without complicated procedures such as drilling holes, riveting, welding and polishing…etc. The resistance heat is extensively used in welding field, suitable for welding of various metallic materials such as magnetism copper, stainless steel, copper, aluminum, aluminum alloy, etc.

Please read this instruction manual before use.

Operation



3. Aluminium Welding Gun Application







shut off the main power supply and switch off the unit.

6. Glue Pulling Kit Application









Clean the pulling plate for next use.

Choose pulling hammer: Connect corresponding pulling hook to the pulling plate. Slide the hammer to opposite direction to pull out the dent.

After pulling out the dent, use a hot air blow gun pointing the hot air to pulling plate to remove the glue from car body.

Remark:

- 1. Setting amperage too high or time too long can cause workpiece surface (vehicle body)damage. Please weld other workpieces for practice before actual operations.
- 2. Setting correct amperage and time according to the workpiece thickness.
- 3. According to actual conditions to select a suitable puller for repairing
- 4. The nut of the puller is to adjust the up and down moving range of the main axle
- 5. Continuing another operation is available after this procedure finished . If not , please shut off the main power supply and switch off the unit.









8. Cupules Application



Maintenance

Troubleshooting

Trouble	Reason	Remedy	
No welding output	 (1)Connected power supply incorrectly. (2)Power switch in "off" position 	 Connect power supply according to manufacturer's instructions. 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 necessary. (3) Connect control wire plug again. (4) Place Mode switch in correct position. 	
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. 	 (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. 	 Reduce amperage setting. Rrduce weld time. Remove coating from material reduce added pressure. 	
Welder 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.	
Carbon rod working unstable	 Carbon rod or workpiece is dirty Incorrect amperage and time setting. 	(1)Polish carbon rod and workpieces(2)Set amperage and time according to workpiece thickness.	

