G.I.KRAFT

Owner's Manual

CEGI12116

The equipment is approved by a number of car manufacturers





















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Safety Precautions Symbols



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



- Read instructions.

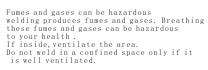
 1. Read owner's Manual before using or servicing
- 2. Use only manufacturer's supplied replacement.

Exploding parts can injure. Always wear a face



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

- 2. Wear dry, hole-free insulating gloves and body protection.
- 3. Do not wrap electrical cable around your body.
- 4. Ground the workpiece with a good electrical ground.



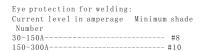


Static can damage PC boards

shield and long sleeves.

- 1. Put on grounded wrist strap before handing boards or parts.
- 2. Use proper static-proof bags and boxes to store, move or ship PC boards.







- 1. Wear approved face shield or safety goggles
- 2. Wear proper body protection to protect skin.



The heat from the workpiece can cause serious burns.



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



Remove all flammables of the welding area.



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



Falling unit can cause injury.



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



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



Do not weld in the height!



Never cut on pressurized cylinder.













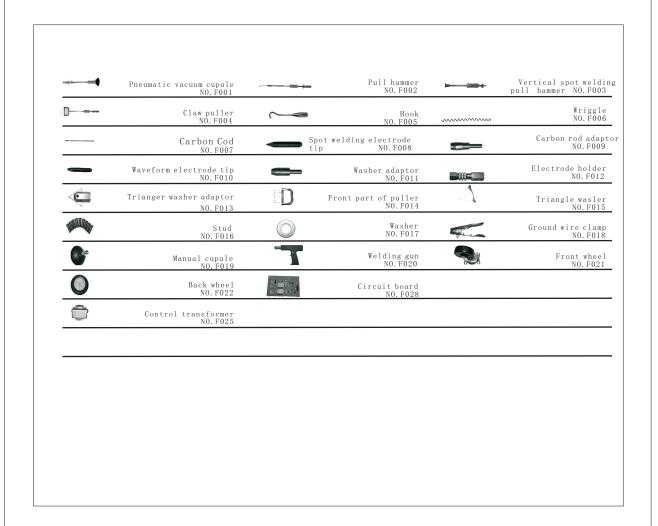
Definitions

Symbols and Definitions

Α	Amperes	1 _{max}	Rated maximum K supply current	I	0n	%	Percent
V	Volts	1eff	Maximum effective supply current	0	Off	0	Increase
12	Rated welding current	IP ^D	egree of protection		Protective earth (Ground))D=	Line connection
S ₁	Power rating, product of voltage and current (KVA)	12	Single phase	\bigcirc	Do not do this	\$ <u></u>	Loose shield cup
HZ	Z Hertz	X	Duty cycle	S	Suitable for some hazardous locations	+ -	Adjust air/gas pressure
U ₁	Primary voltage	===	Direct current	\odot	Input	20	Automatic
Uo	Rated no load voltage(Aaverage) 7	Constant crrent	€	Voltage input	B	Manual
U ₂	Conventional load voltage	ŧ	Temperature	-	Low air pressure light		

Accessories And Spare parts

Accessories and Spare Parts List:



- 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

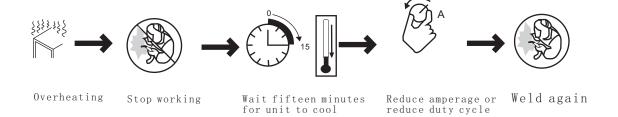
Input voltage	220V 50/60Hz
Input vortage	
Output voltage AC6V-	10V Carbon rod heating AC1V-12V Washer fusion AC1V-13V Butt weld
Input power	1 OKW
Instant max.current	1200A
Input current	30A
Operation way	Continuity
Time regulation system	$0-99\mathrm{ms}$
Operation place	Stepless
One side welding thickness	0.8+1.2(mm)
Vacuum cupule device	180kg
Dimension	460*480*1050 (mm)
Weight	35kg

Picture	Description	Time (s)	Power
	Triangle washer welding	0.01-FFF	25-FF
<u></u>	Washer welding	0.01-FFF	25-FF
8	OT washer welding	0.01-FFF	25-FF
	Stud welding	0.01-FFF	25-FF
<u> </u>	Single-sided spot welding	0.01-FFF	25-FF
346	Wavy wire welding	0.01-FFF	25-FF
	Sheet metal flattening	FFF	25-FF
	Carbon rod stitch welding	FFF	25-FF
	Carbon rod heating & shrinking	FFF	25-FF
	Carbon rod cutting	FFF	25-FF

2. Duty Cycle and Overheating

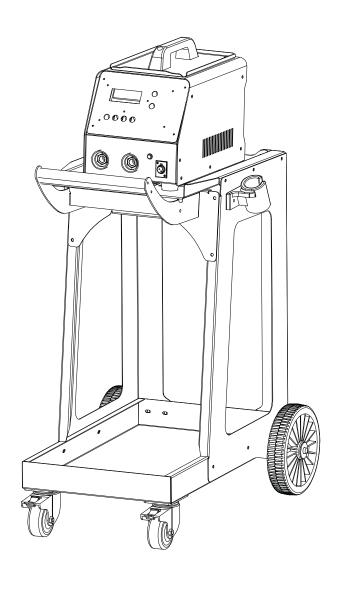
Duty cycle is percentage of 10 minutes that unit can weld at rated load without overheating.

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



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

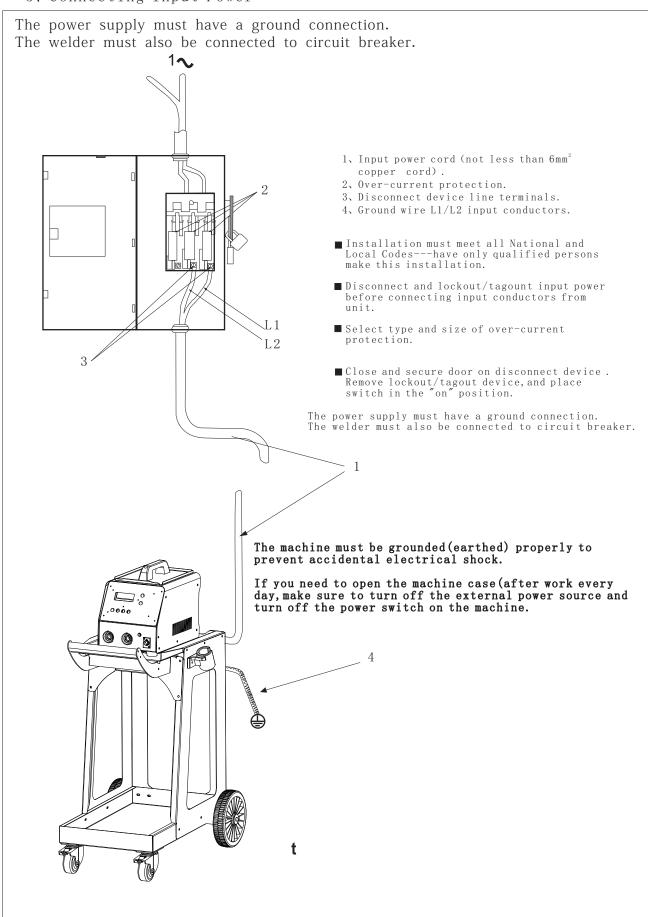
- 1) Select a correct location to place the unit.
- 2) Determine input power cord length according to its actual operation requirement . Make sure that the supply cable is at least $6\,\mathrm{mm}^2$ in diameter
- 3) Do not move or operate unit where it could tip.
- 4) Use cart or unit handle to move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



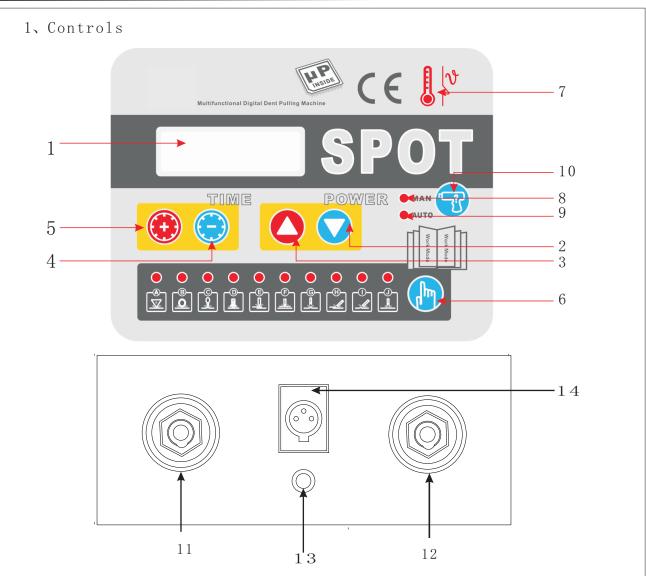




5, Connecting Input Power



Operation



- 1. LCD Screen
- 2. Weld Power-- Down
- 3. Weld Power -- Up
- 4. Weld Time---Down
- 5. Weld Time--Up
- 6. Weld Program Selection
- 7. Overheat Indicator
- 8. Manual Weld
- 9. Automatic Weld

REMARK:

The programs G,H,I,J cannot be used in Automatic Weld. Weld Time cannot be set to FF(Full).In Automatic Weld, welding automatically without triggering.

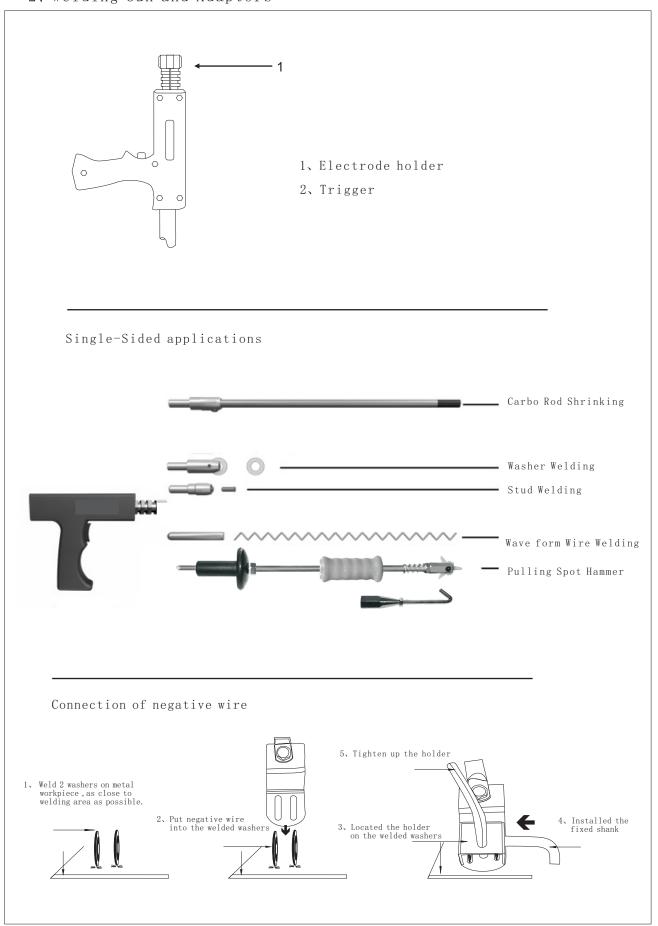
- -Pressing the two buttons "Weld Time—Up" and "Weld Program Selection" at the same to resume to default setting.
- Pressing the two buttons "Weld Power -Up" and "Manual/Automatic Selection" at the same time for switching English and Chinese

Weld Program Selection:

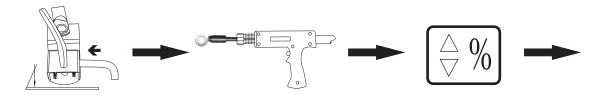
Press quickly: Moving icon to the right Press and hold: Moving icon to the left

- 10. Manual/Automatic Selection
- 11. Earth Cable Output
- 12. Weld Gun Cable Output
- 13.Gun Cable Trigger
- 14.Gun Cable Socket

2, Welding Gun and Adaptors



a, Washer Welding

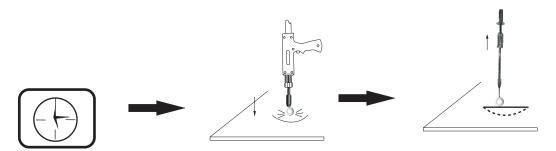


Connect negative outside wire to a clean, paint-free location on metal workpiece, as close to welding area as possible.

F017+F011+F020

Connect washer adaptor with welding gun and tighten, Install washer.

Set correct amperage.



Set correct time.

Approximately a $90\,^\circ$ angle to the dent. Put on pressure and press trigger.

Remove welding gun. Hook the washer with pull hammer. Slide the hammer to opposite direction to pull out the dent.

- 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. Continuing another operation is available after this procedure finished .if not, please shut off the main power supply and switch off the unit.

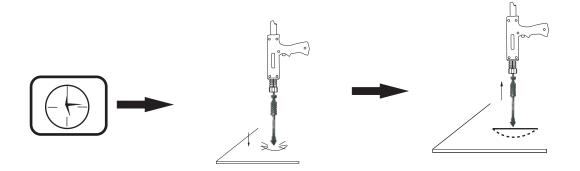
b, Triangle Washer Welding



F003+F020

Connect negative outside wire to a clean, paint-free location on metal workpiece, as close to welding area as possible. Connect triangel washer pull hammer with welding gun.

Set correct amperage.



Set correct time.

Approximately a $90\,^\circ\,$ angle to the dent, put on pressure and press trigger.

Slide the hammer to opposite direction to pull the dent out.

- 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.
- $2\mbox{,}$ Setting correct amperage and time according to the workpiece thickness
- 3. Triangle washer welding can replace washer welding. It can pull out the dent directly after welded.
- 4. Continuing another operation is available after this procedure finished . If not, please shut off the main power supply and switch off the unit.

C, Carbon rod Heating

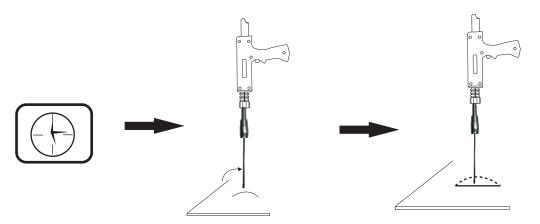


Connect negative outside wire to a clean, paint-free location on metal workpiece, as close to welding area as possible.

F007+F009+F020 Connect carbon rod and carbon rod adaptor with

welding gun.

Set correct amperage.



Set correct time.

Carbon rod turning in clockwise to heat up the stretched panel

Use cold water or wet rag to cool down the heated area that makes the stretched panel shrunken as normal status.

- 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. Continuing another operation is available after this procedure finished. If not, please shut off the main power supply and switch off the unit..

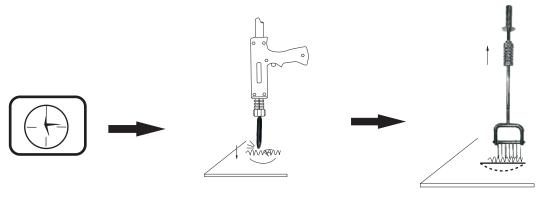
d.Wriggle Form Wire Welding



F006+F010+020

Connect negative outside wire to a clean, paint-free location on metal workpiece, as close to welding area as possible. Connect wriggle wire electrode tip with welding gun.

Set correct amperage.



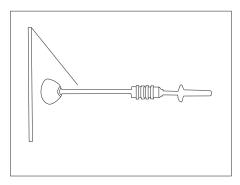
Set correct time.

Place a wave form wire horizontally on the dent. Approximately a 90° angle to wave form wire. Put on pressure and press trigger.

Connect hook puller with pull hammer. Hook wave form wire and slide the hammer to pull out the dent.

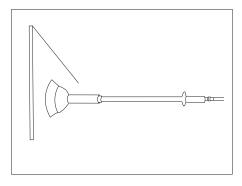
- 1, Setting amperage too high or time too long can cause workpiece surface (vehicle body)damage. Please weld other workpieces for practice before actual operations.
- $2\mbox{,}$ Setting correct amperage and time according to the workpiece thickness.
- 3. Continuing another operation is available after this procedure finished . If not , please shut off the main power supply and switch off the unit.

e, Cupules



Manual operating cupule:

- 1. 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.

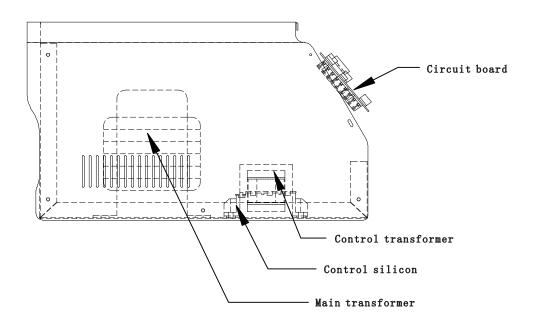


Pneumatic vacuum cupule:

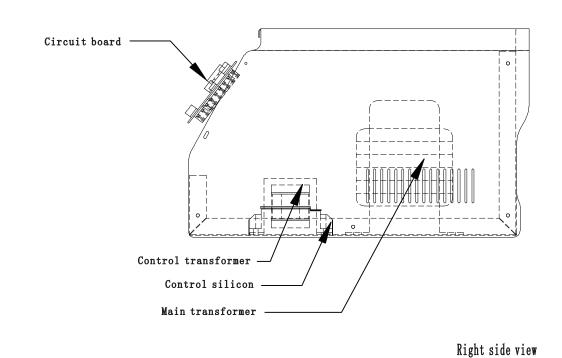
- Connect gas/air supply with the adaptor of cupule.
- 2. Open the valve , sticking cupule to the $\mbox{\ensuremath{\mbox{dent}}}.$
- 3. Slide the hammer to opposite direction pull the dent out.
- 4. Cupule falls off when close the valve.

Maintenance

1. Exploded view



Left side view



Maintenance

2. Troubleshooting

Trouble	Reason	Remedy
No welding 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 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.	(1) Reduce amperage setting.(2) Rrduce weld time.(3) Remove coating from material reduce added pressure.
Carbon rod working unstable	(1)Carbon rod or workpiece is dirty (2) Incorrect amperage and time setting.	(1) Polish carbon rod 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.

Installation

- 1. Fasten the bottom tray (1) and right and left side panels (2) together with screws.
- 2. Fasten the middle tray (3) in by screwing on the right and left side panels (2)
- 3. Fasten the top tray (4) in by screwing on the right and left side panels (2)
- 4. Fasten the handle (5) at each end with screws.
- 5. Fasten the hammer holder(6) and tool holder (7) to the right and left side panels (2).
 - 6. Install the base plate(8) beneath the bottom tray(1). Finally, install the wheels (9) and casters(10).

