Owner's Manual



The equipment is approved by following car manufacturers



Contents

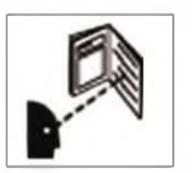
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Safety Precautions Symbols



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 unita
- 2. Use only manufacturer's supplied replacement.





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



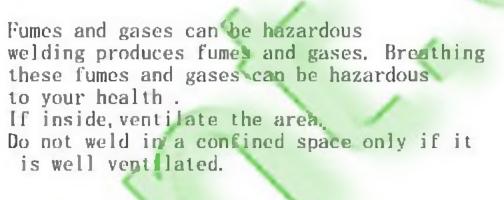
Static can damage PC boards 1. Put on grounded wrist strap before handing boards or parts.

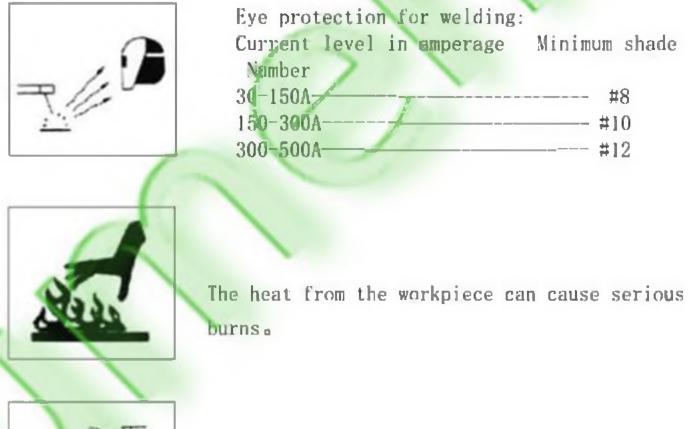
2. Use proper static-proof bags and boxes to store, move or ship PC boards.



- 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.







Curpent level in emperage Minimum shade



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



- 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 arc¹ cutting operations.



Falling unit can cause injury.



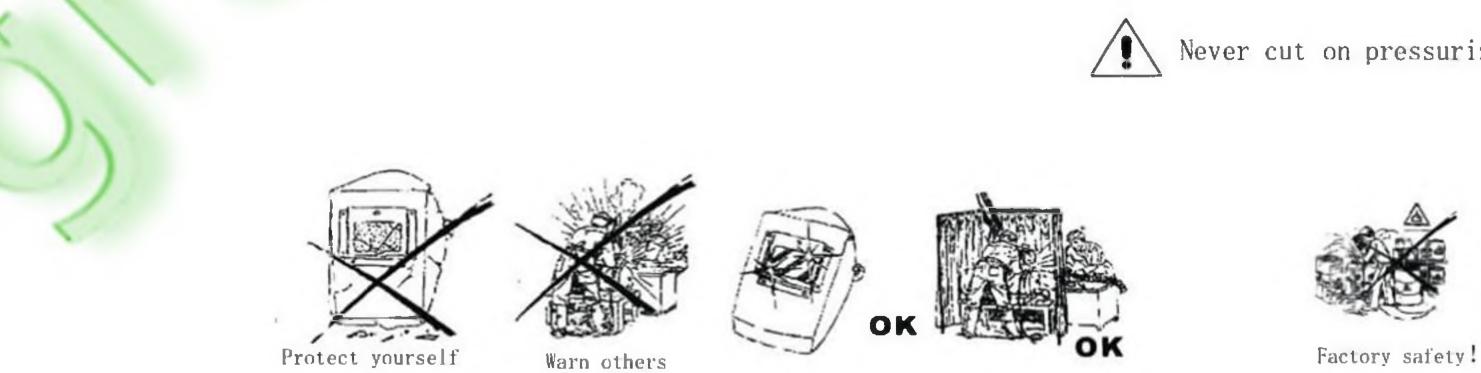
Overuse can cause overheating Allow cooling period , follow rated duty cycle hefore starting to weld again.



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.







Maintenance regularly!

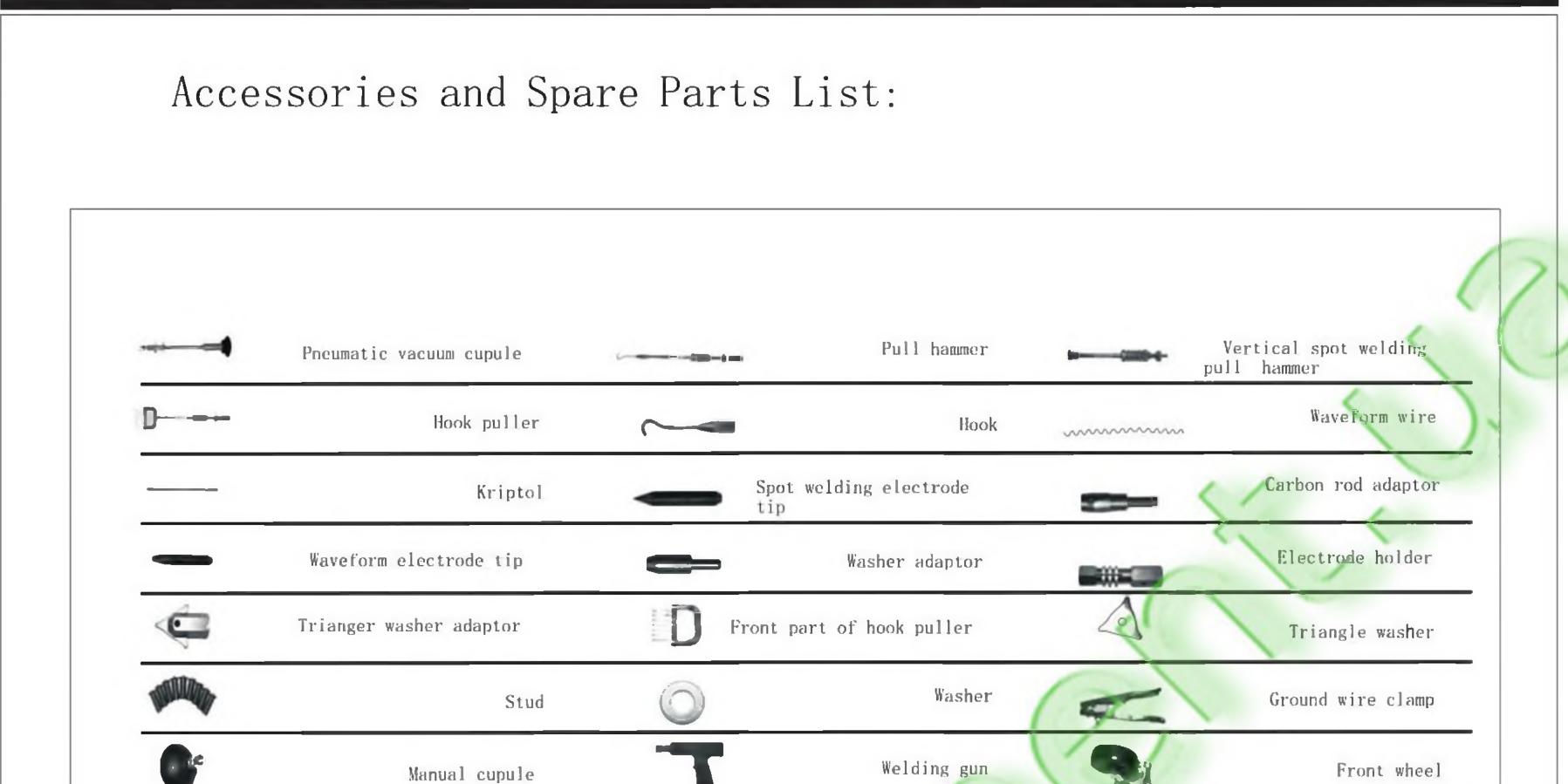
Definitions

Symbols and Definitions

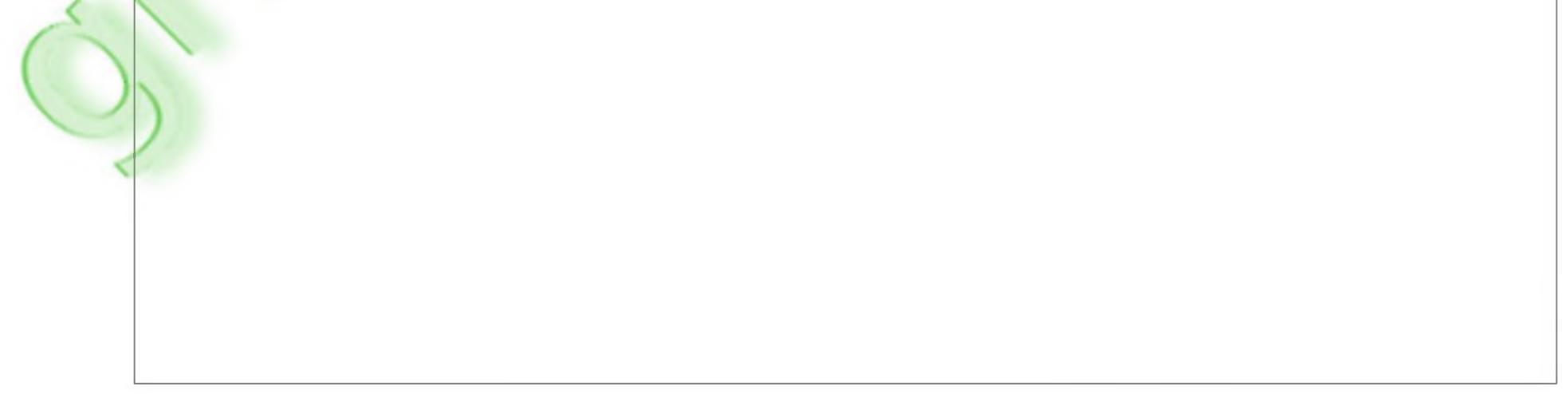
Α	Amperes	I 1ma	Rated maximum X supply current		On	%	Percent
V	Volts	l 1eff	Maximum effective supply current	0	Off	\mathbf{O}	Increase
2	Rated welding current	IP	Degree of protection		Protective earth (Ground)		Line connection
5	Power rating, product of voltage and current(KVA)	12	Single phase	\bigcirc	Do not do this	1	Loose shield cup
ΗZ	Hertz	Х	Duty cycle	S	Suitable for some hazardous locations	+ -	Adjust air/gas pressure
U1	Primary voltage		Direct current	Ð	Input	20	Automatic
Uo	Rated no load voltage(Aaverage)	Δ	Constant current	-0	Voltage input	-5	Manual
U ₂	Conventional load voltage	F	Temperature	-0	Low air pressure light		
~							
S							



Accessories And Spare parts



Back wheel Circuit board	
Control transformer	
Remark:	
1), Optional orders for above accessories and components are	
available. 2)、Model and parts number required when ordering parts from ye	0117
	our





Installation

1. specifications

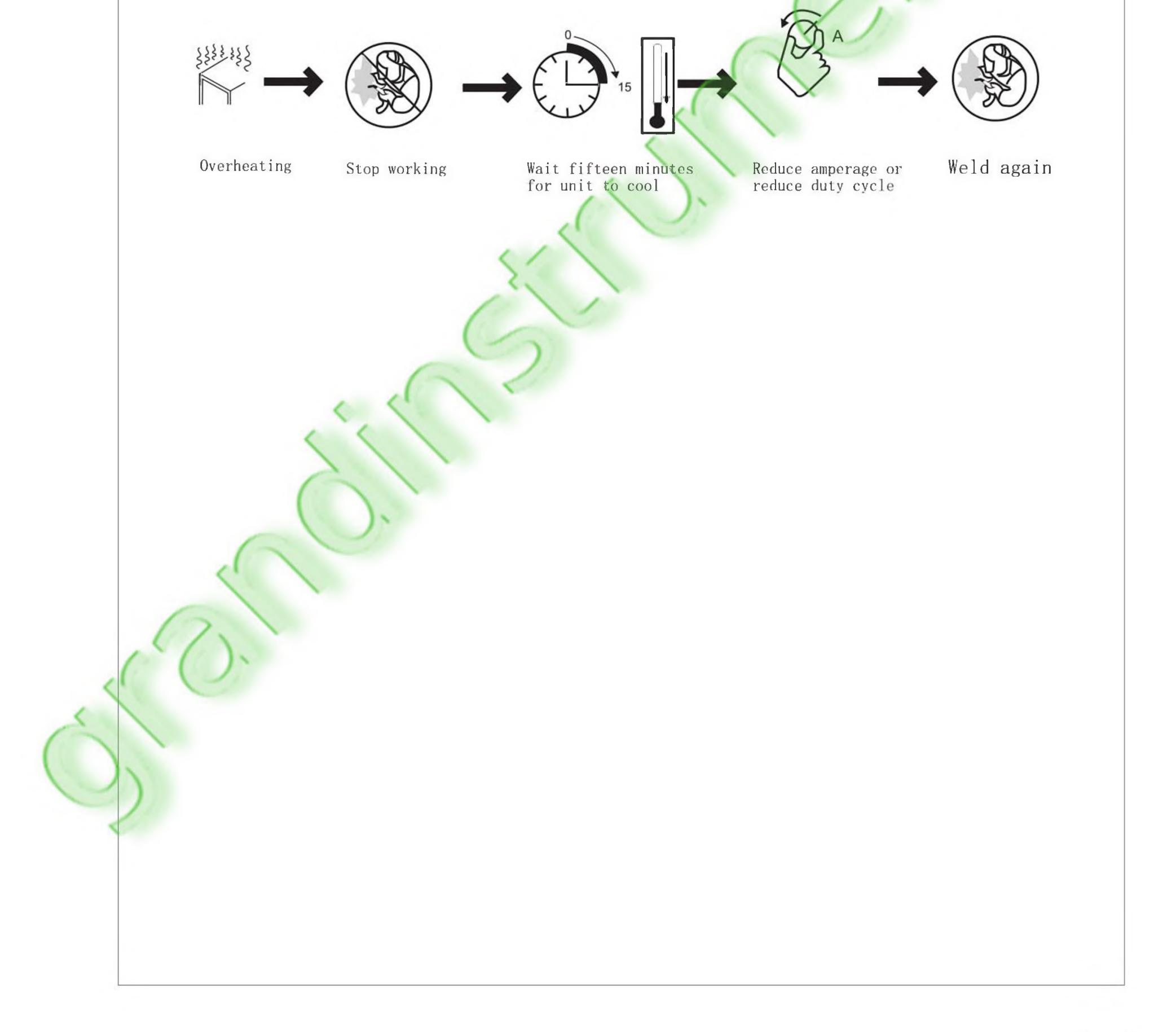
Input voltage	Singe phase 380V 50/60HZ	
Output voltage	AC1V-13V	
	Carbon rod heating AC6V-10V w asher welding AC1V-12V d ouble-side welding AC1	V-13V
Input power	30KW)
Instant max.current	9900A	
Input current	60A	
Operation way	Electronic timer, continuity	
Time regulation system	0-99ms	
Operation place	Infinity	

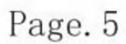
	One side welding thic	kness 1.0+1.5(mm)	(
			<					
	Double-side welding thickness 2.5+2.5(mm)							
	Input gas/air press	sure 6-10kg	$\langle \rangle$					
	Vacuum cupule devid	e 180kg						
	Dimension	920*585*1780 (mm)						
	Weight	138kg						
	Image	Description	Time(s)	Welding power	Power consumption (KW/HRS)			
		Triangle washer welding	0.03-0.08	53%-80%	1.02-4.08			
		Washer welding	0.05-0.15	55%-78%	1. 31-5. 6			
		Stud welding	0. 05-0. 10	55%-85%	1.32-4.06			
		Singel-sided spot welding	0. 20–0. 50	100%	2. 13-6. 36			
		Sheet metal flattening	0. 50–0. 70	60%-85%	1. 42-5. 15			
		Carbon rod heating	FFF	25%-50%	1. 59–3. 18			
$\langle \rangle$		Carbon rod seam welding	FFF	35%-75%	2. 18-4. 78			
		Waveform wire welding	0. 03–0. 03	43%-50%	1.2-1.92			
		Sheet metal cutting	FFF	60%-85%	3. 84-5. 48			
		Two-sided spot welding	0.45-0.70	60%-100%	8.0-14.26			

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 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.

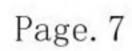
2)Determine input power cord length according to its actual operation requirement .Make sure that the supply cable is at least 6mm²indiameter

3) Do not move or operate unit where it could tip.

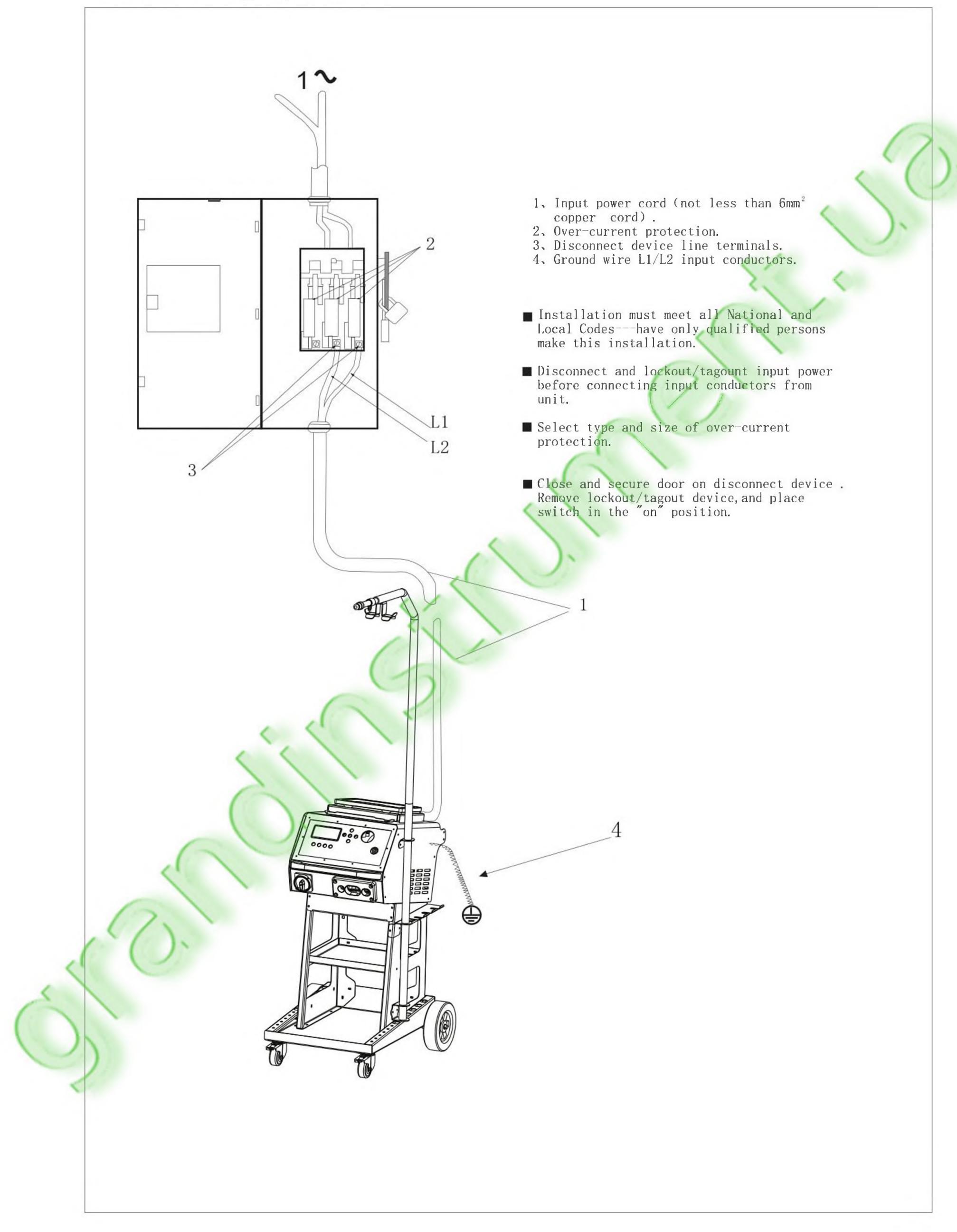
4)Use cart or unit handle to move unit .Do not pull the cords

to move unit.

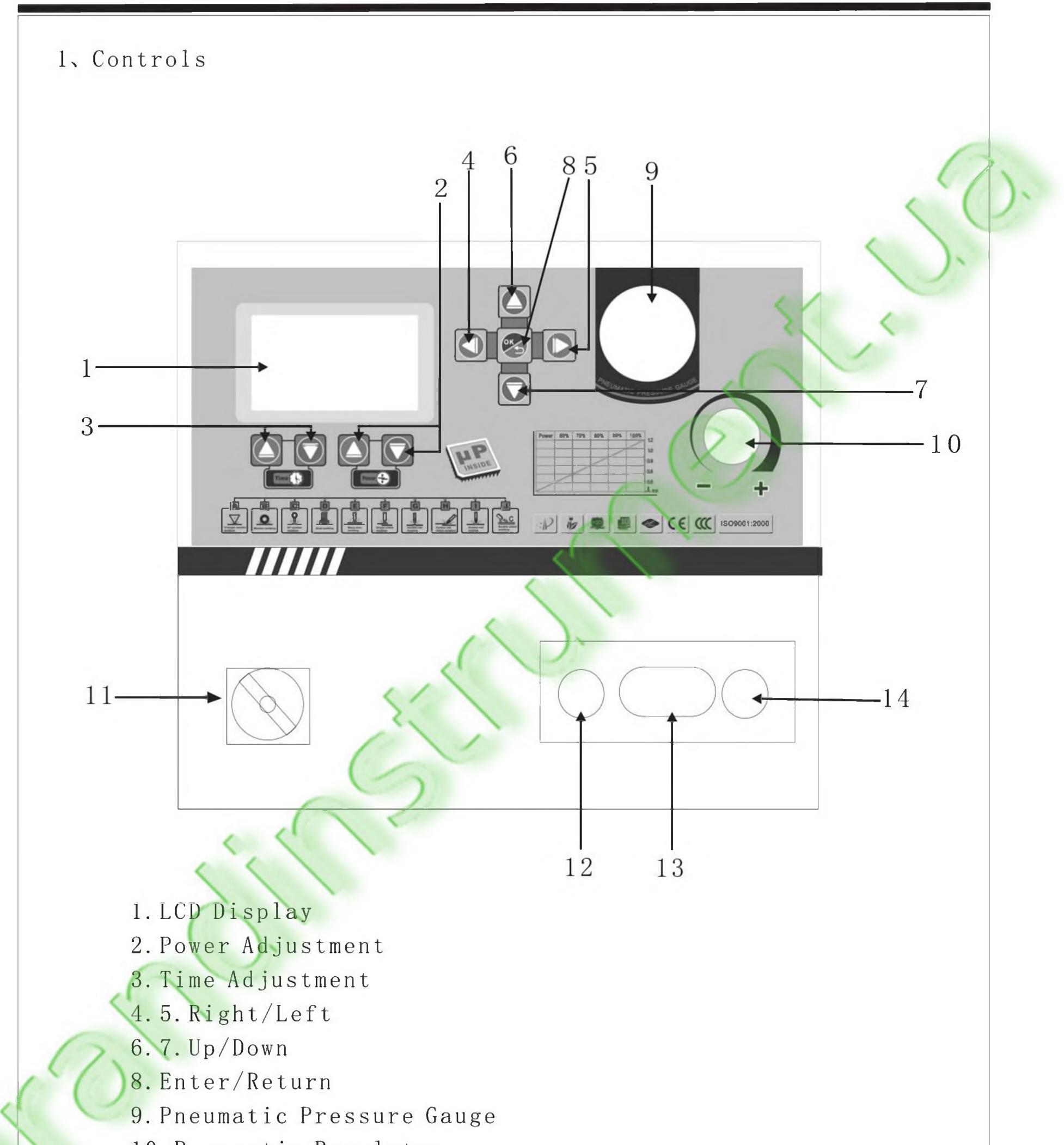


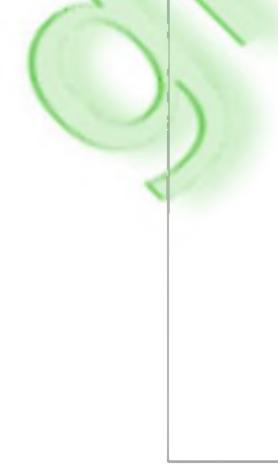


5. Connecting Input Power

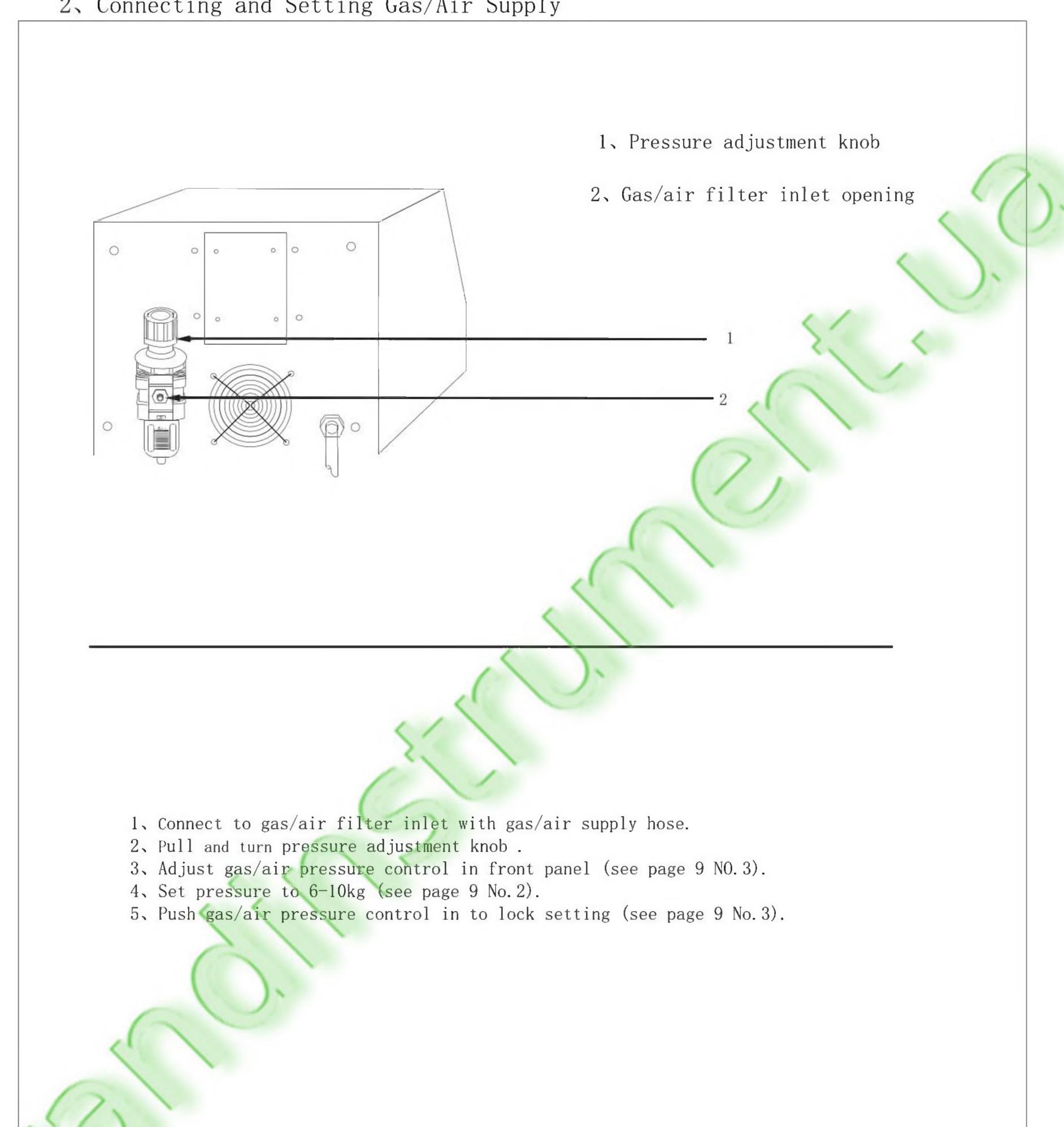


Operation

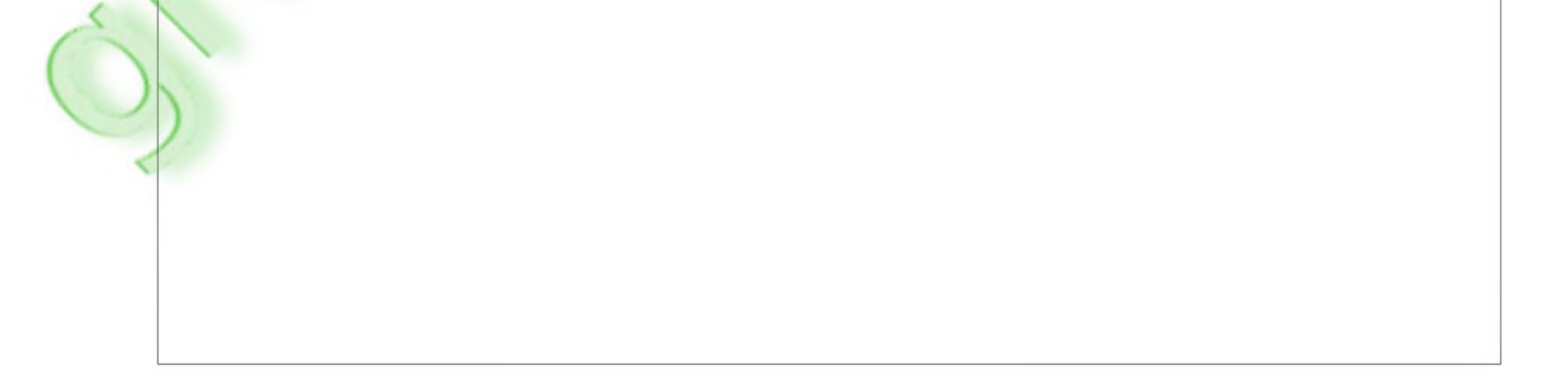




10. Pneumatic Regulator11. Power switch12. Negative outside wire13. X-gun output cable14. single-side gun output cable

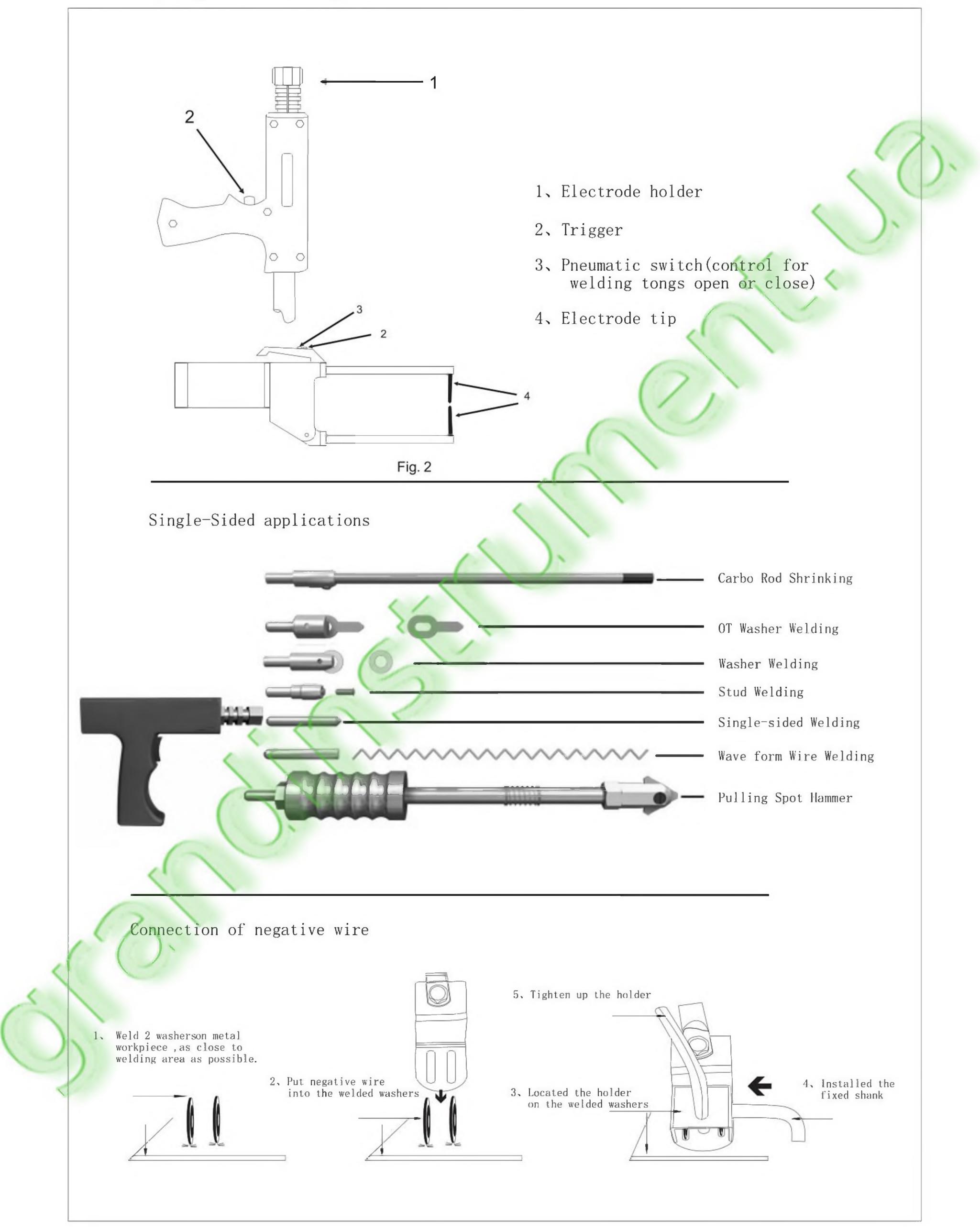


2, Connecting and Setting Gas/Air Supply

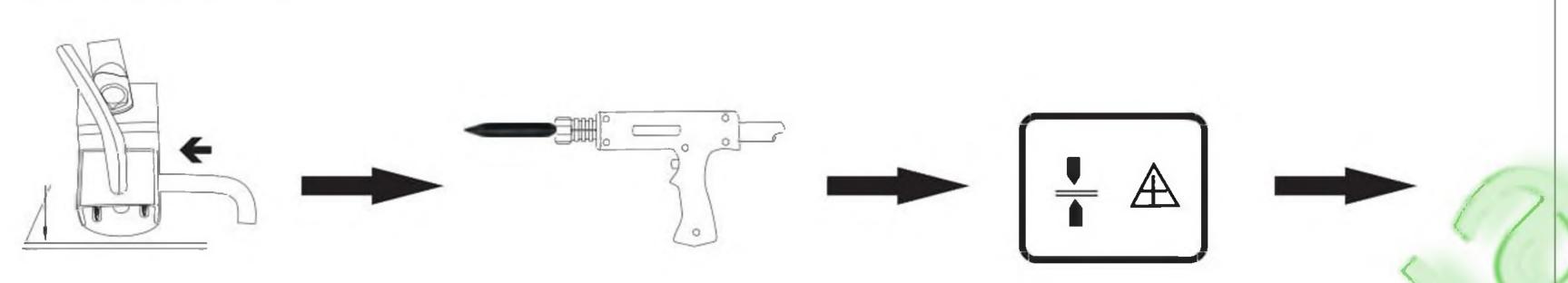




3. Welding Gun and Adaptors

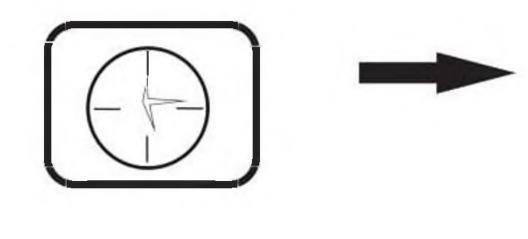


a, spot welding



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

Set correct amperage.

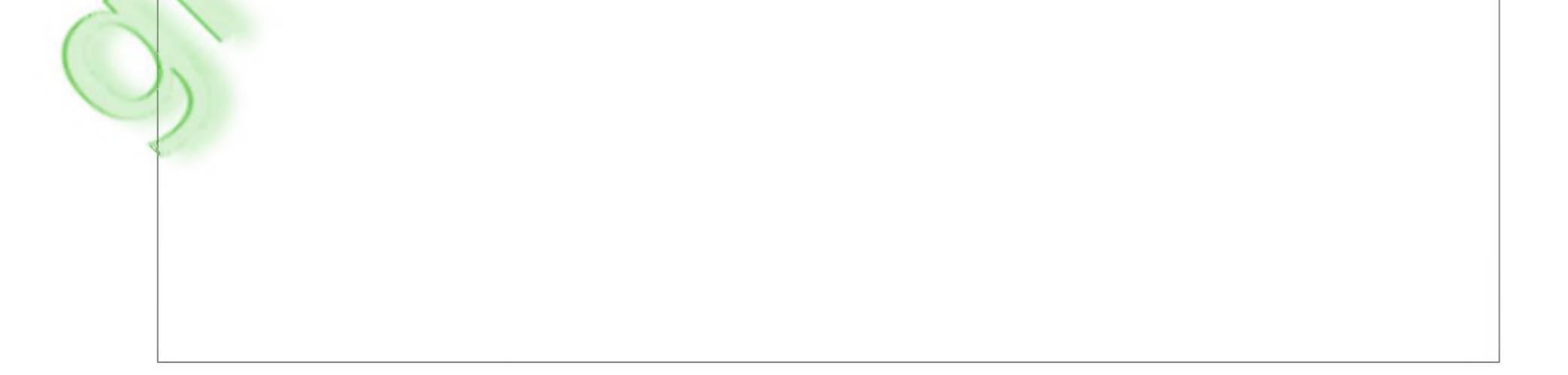


Set correct time.

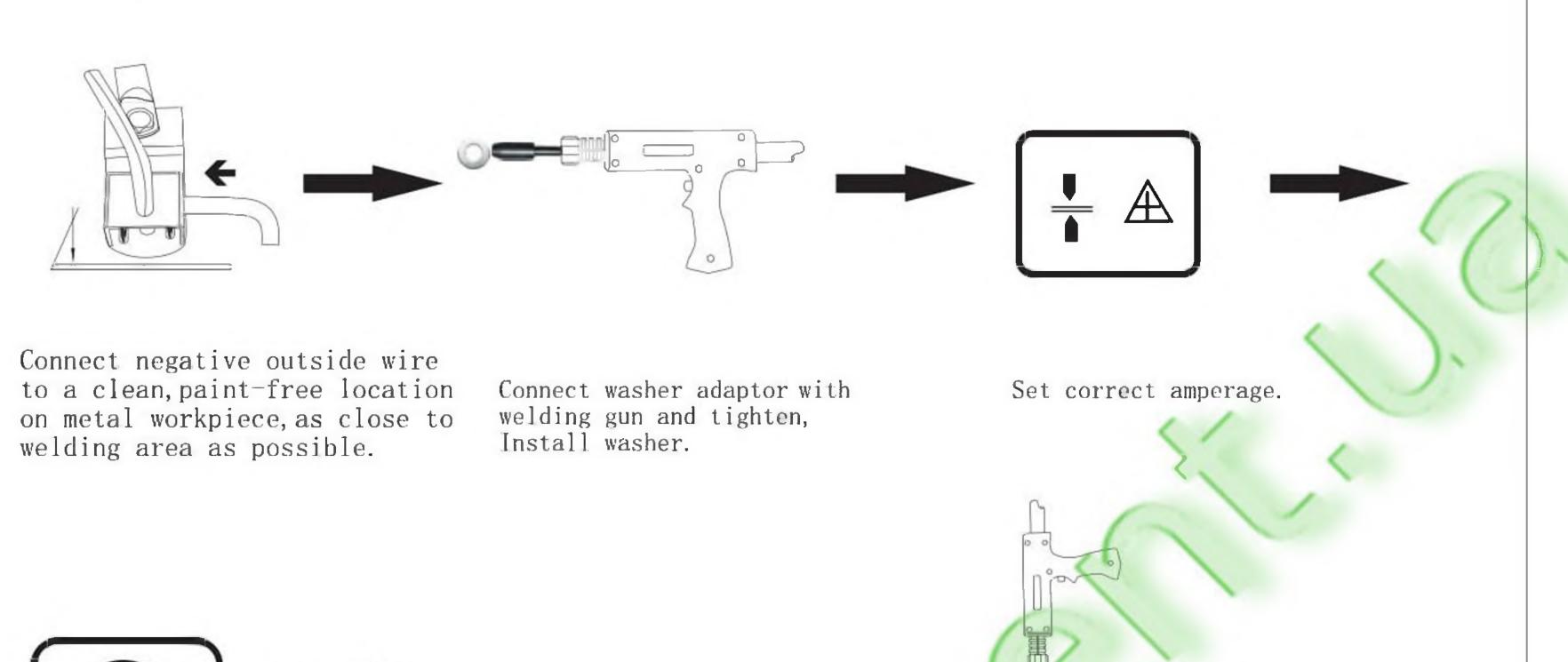
Approximately a 90° angle to the workepiece surface. Put on pressure and press trigger.

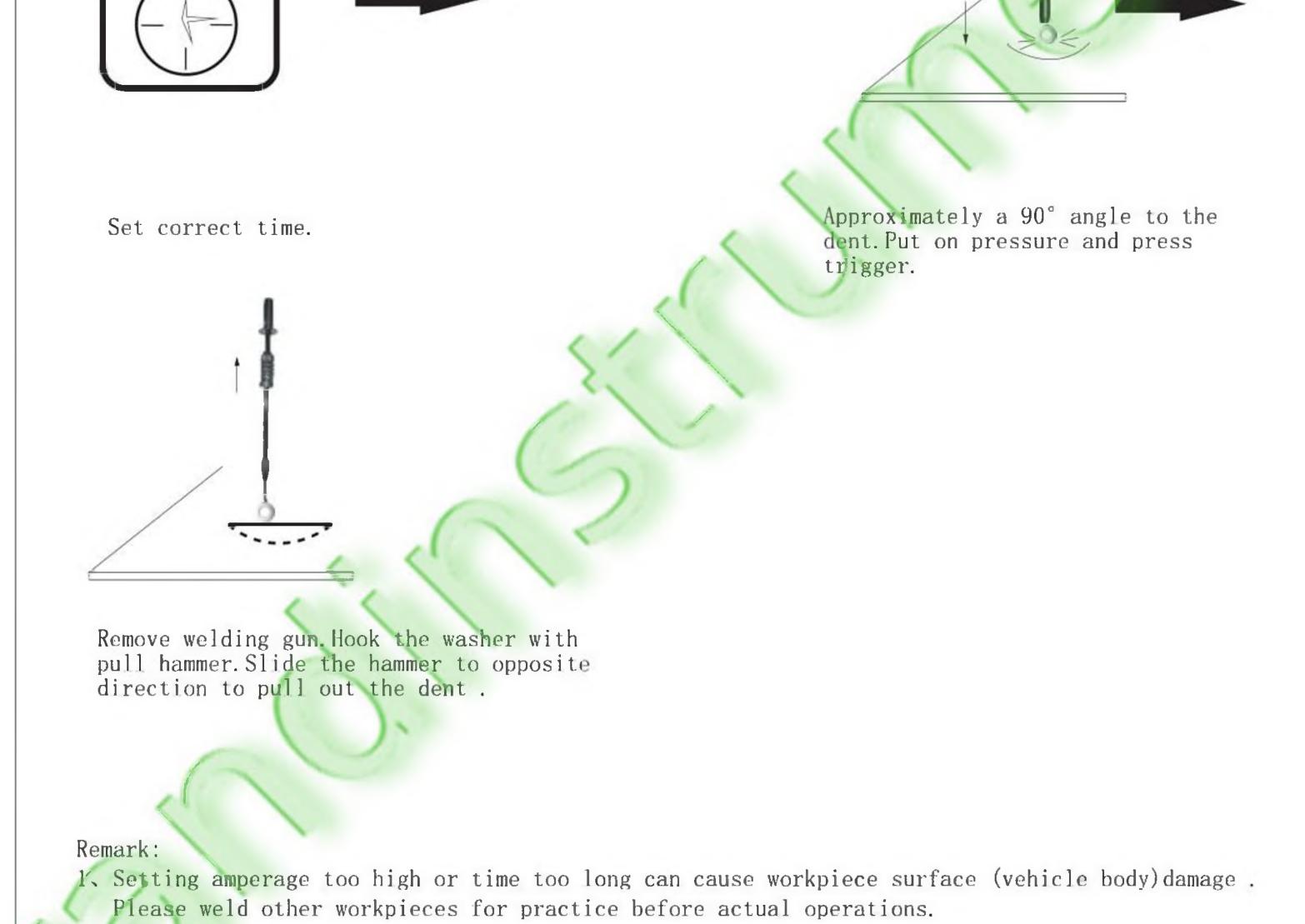
Remark:

- 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 applicable after these procedures finished . If not, please shut off the main power supply and switch off the unit.

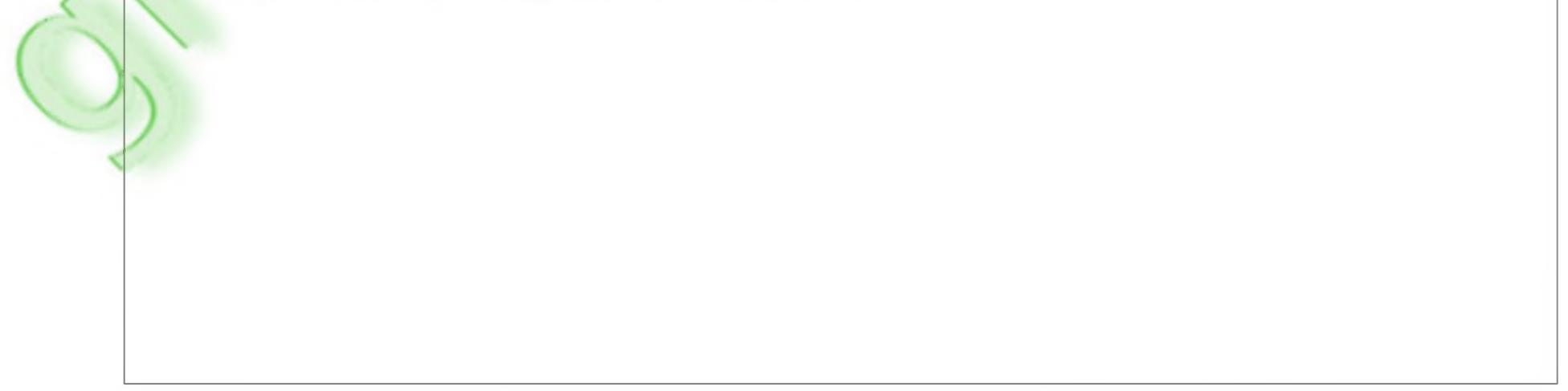


b. Washer Welding

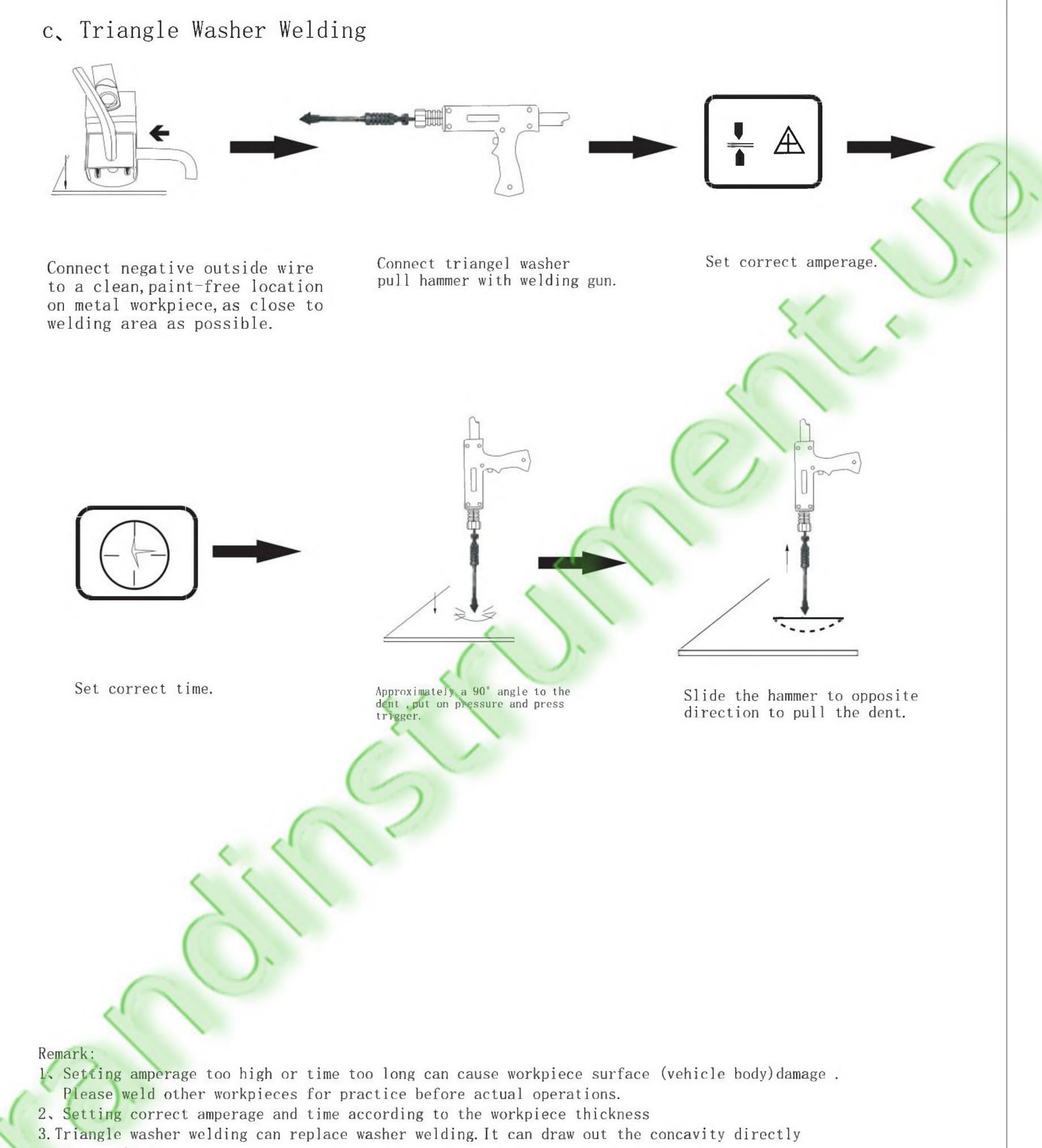




- 2. Setting correct amperage and time according to the workpiece thickness.
- 3. Continuing another operation is applicable after these procedures finished .if not, please shut off the main power supply and switch off the unit .

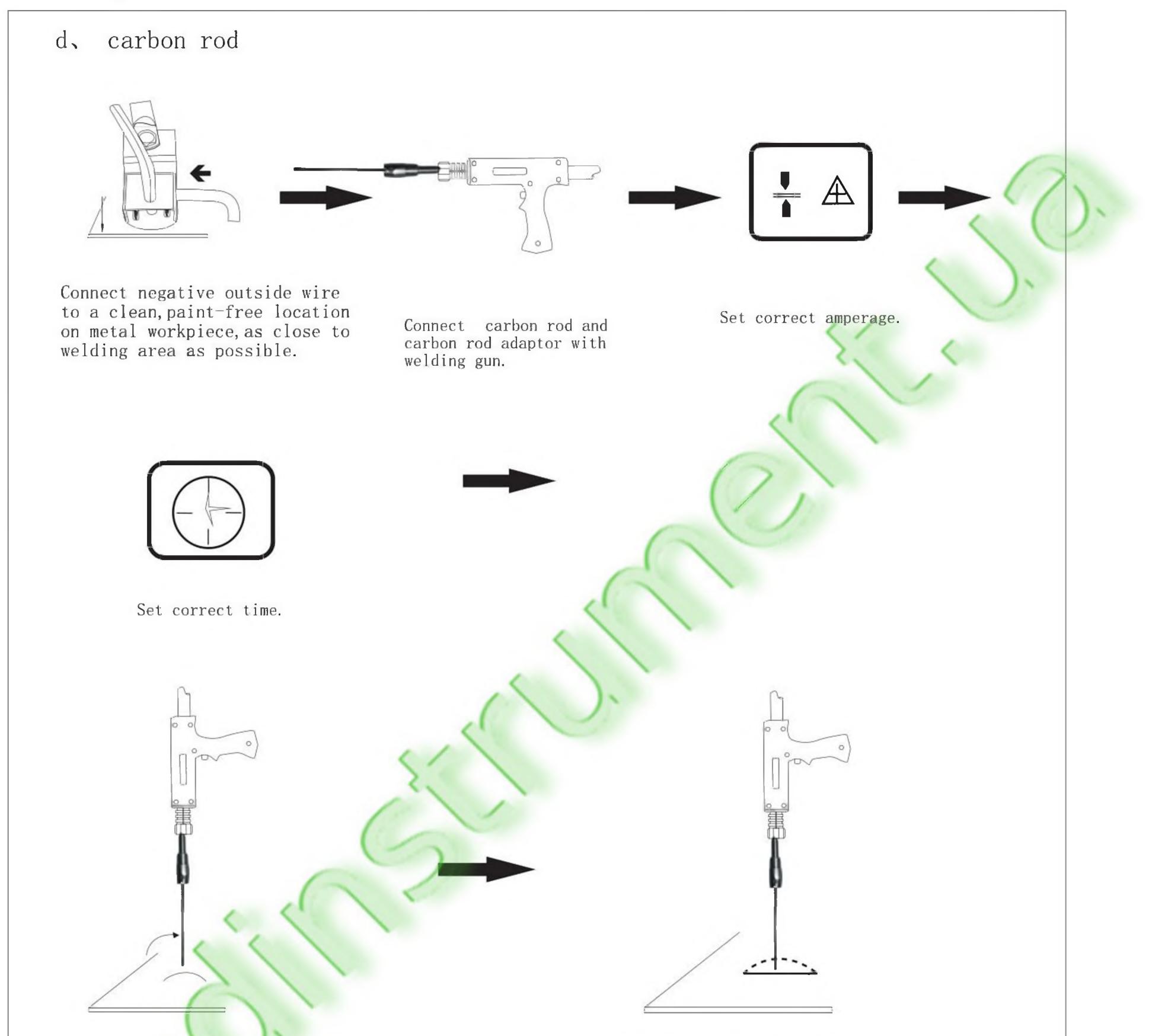






- after welded.

4. Continuing another operation is applicable after these procedures finished . If not, please shut off the main power supply and switch off the unit .



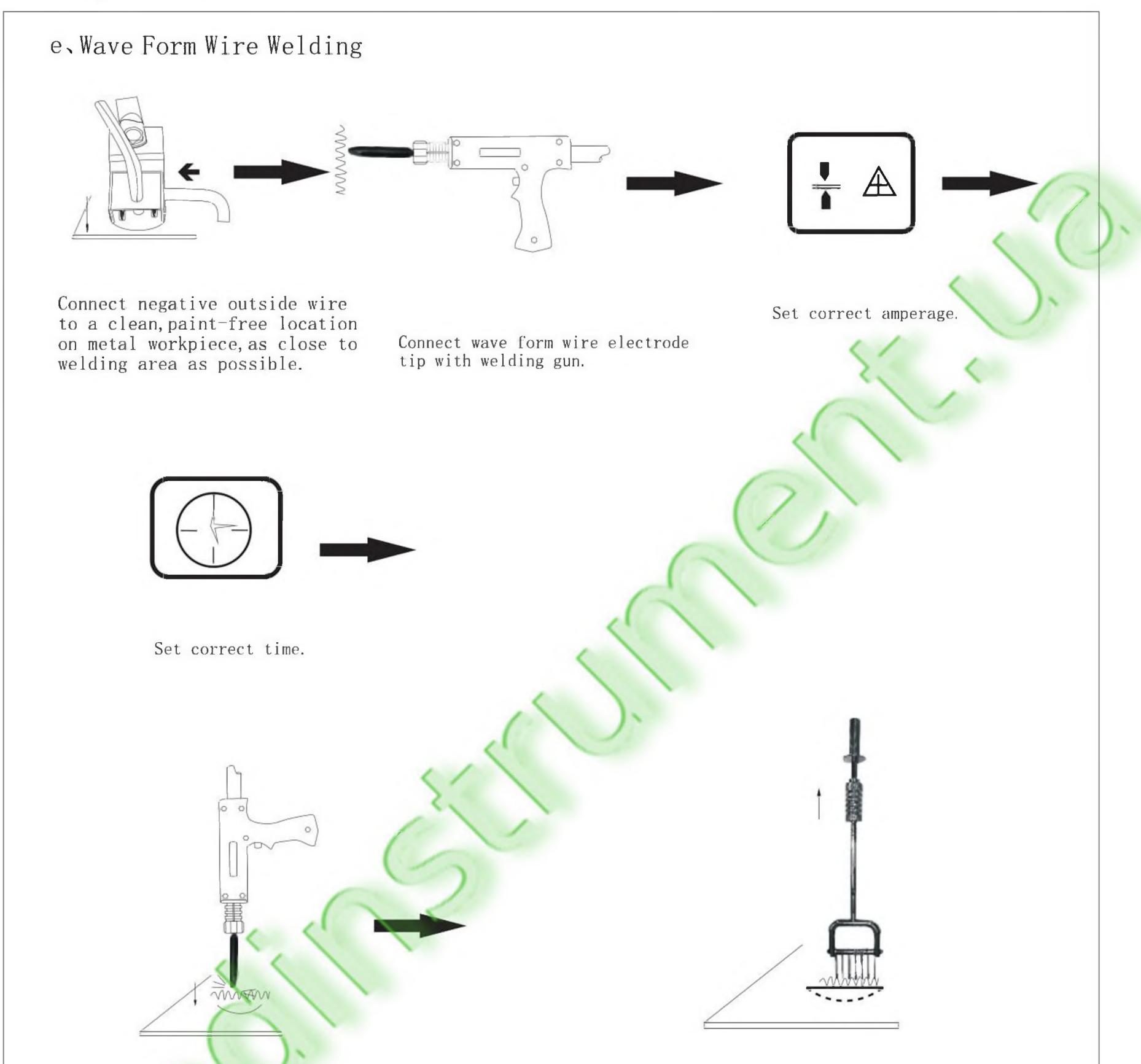
Turn the carbon rod elockwise to heat up the entire convexity surface.

Cool the surface with a wet rag or compressed air.

Remark:

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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.

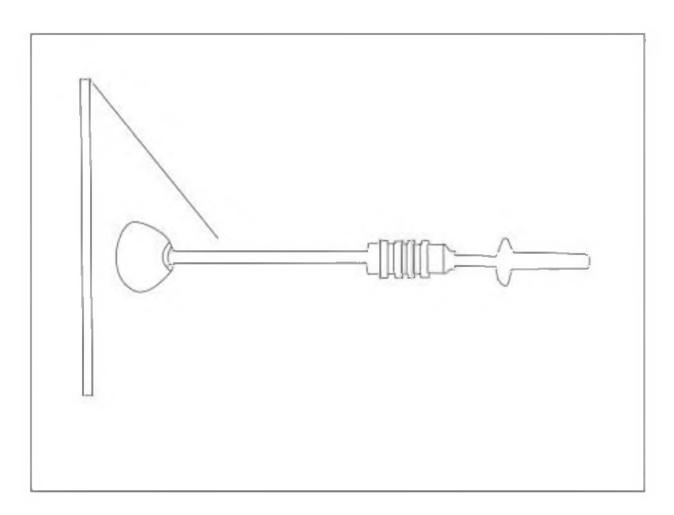
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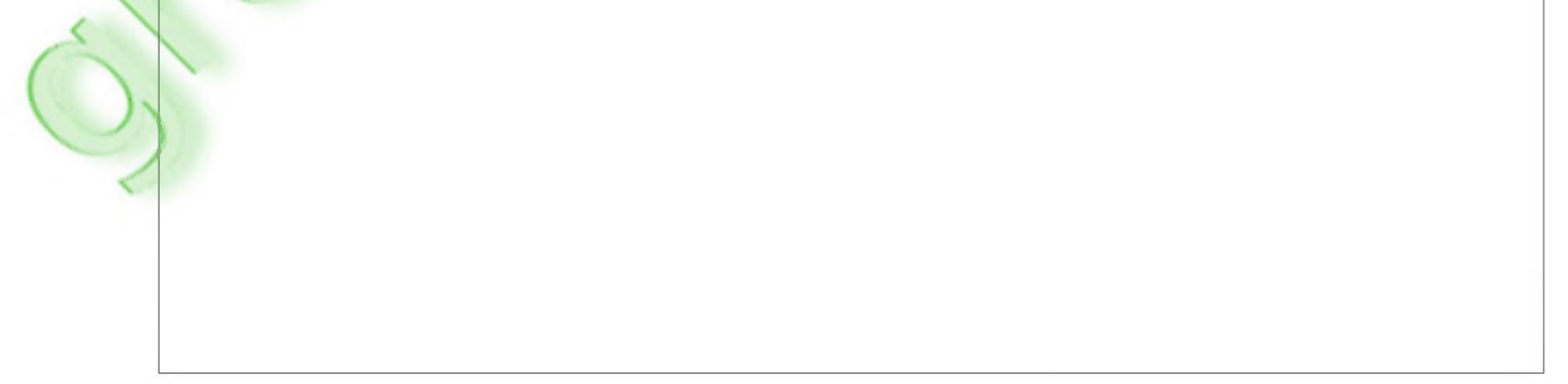
f. Cupules



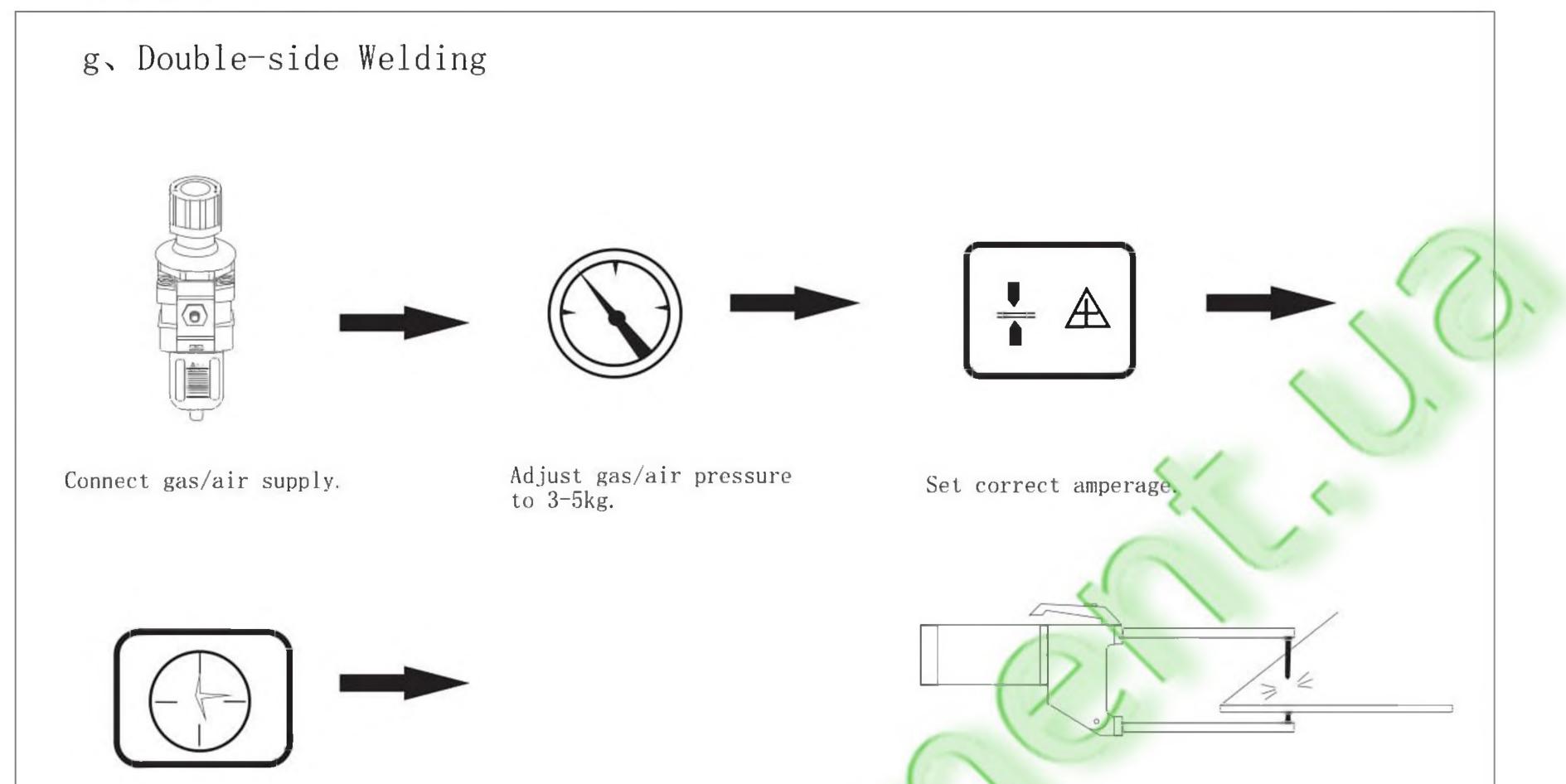
Manual operating cupule:

- 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: 1. Connect gas/air supply with the adaptor of cupule. 2. Open the valve, sticking cupule to the denu. 3. Slide the hammer to opposite direction pull the dent out. 4. Cupule falls off when close the valve.





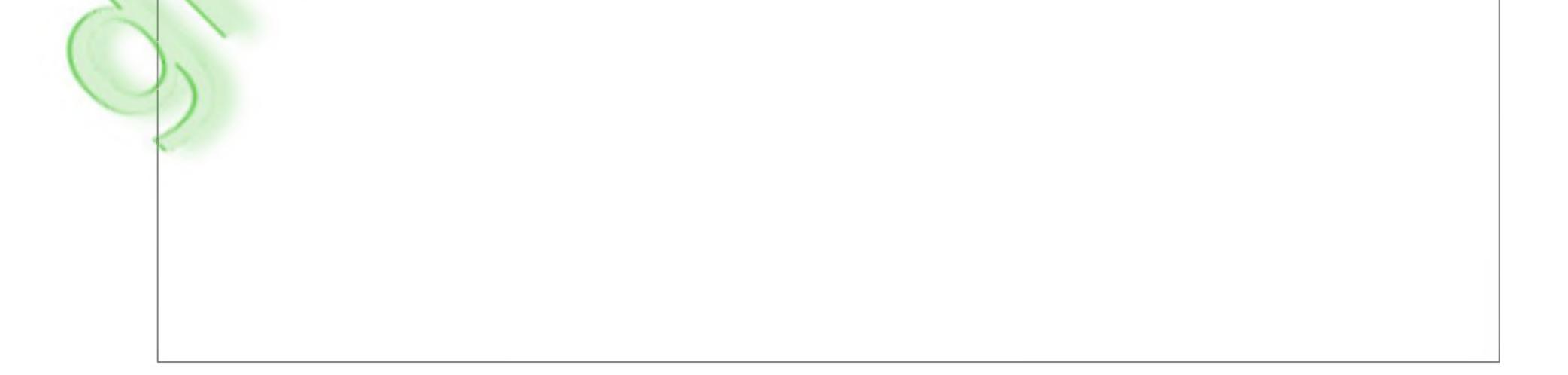


Set correct time.

Push pneumatic switch to open electrodes wide push pneumatic switch again to close electrodes , and then push trigger to weld

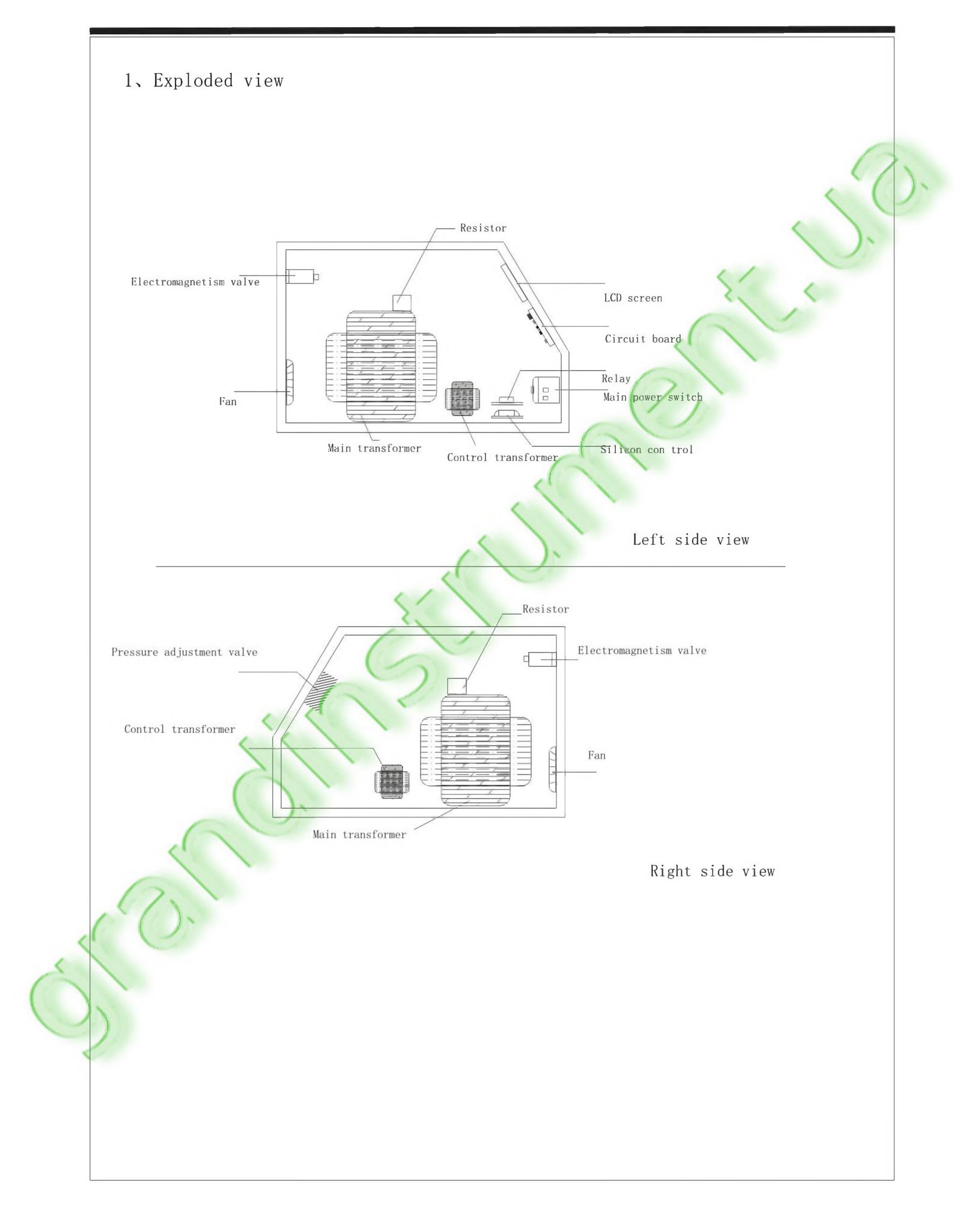
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Maintenance





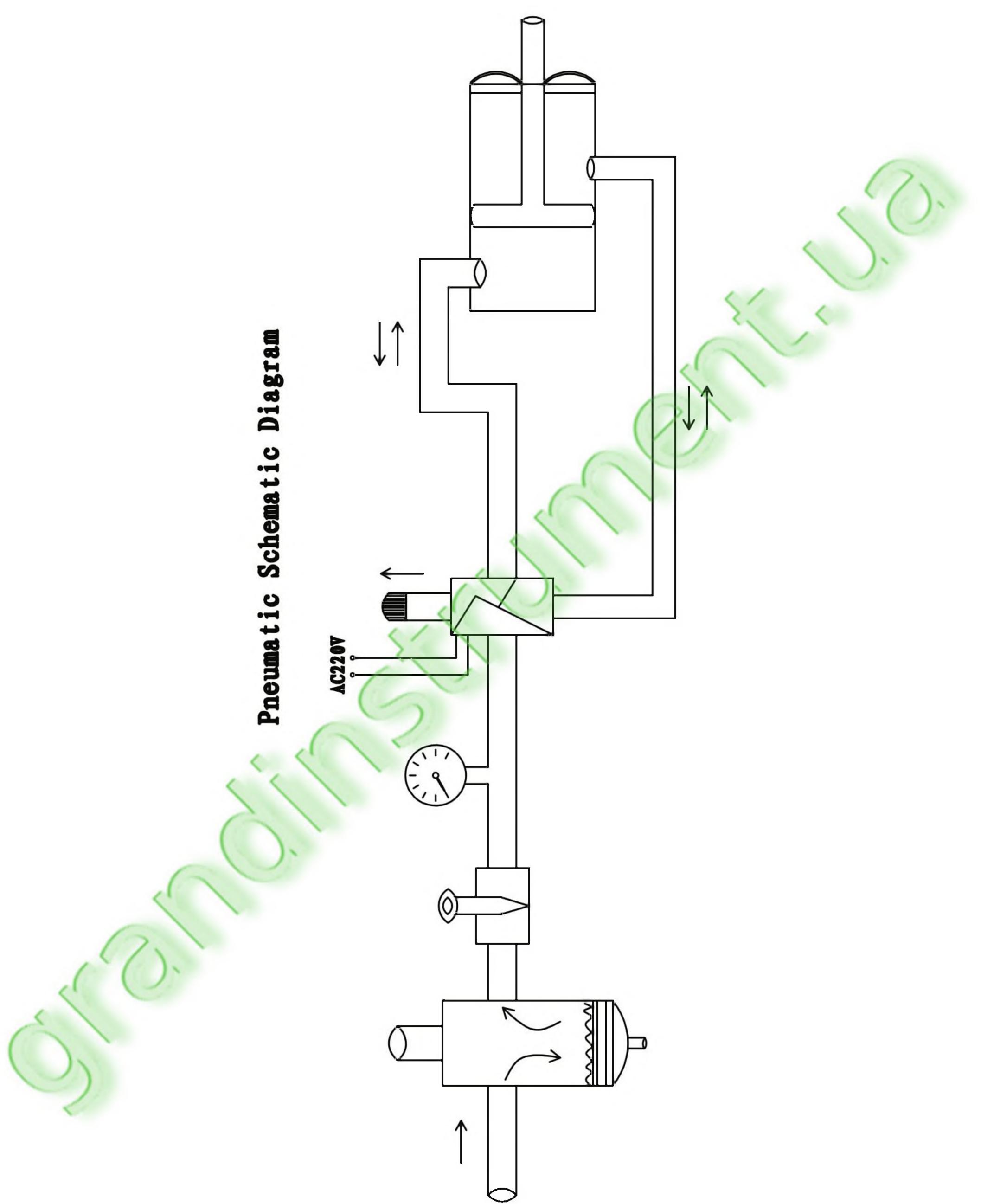
Maintenance

2. Troubleshooting

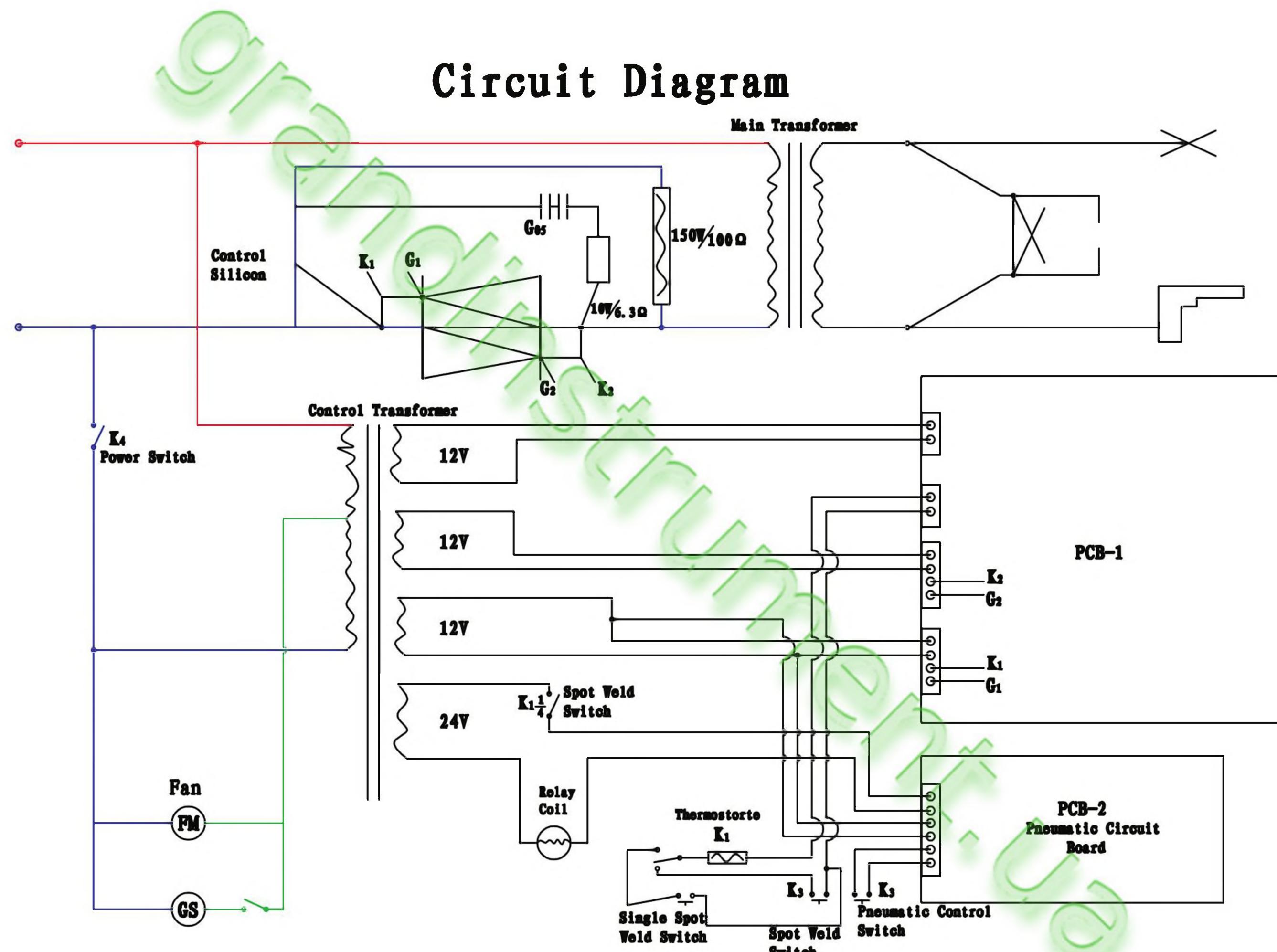
Trouble	Reason	Remedy
No welding output	 (1)Connected power supply incorrectly. (2)Power switch in off position 	 (1) Connect power supply according to manufacturer's instructions. (2) Place power switch in "on" position.
Trigger not working	 (1) Trigger damaged. (2) Gun control wire broken. (3) Control wire plug loosen. (4) Mode switch in incorrect position. 	 (1) Replace trigger. (2) Connect again or replace if nec- essary. (3) Connect control wire plug again. (4) Place Mode switch in correct pos- ition.
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.
Not enough pressure	 (1) Air compressor pressure not enough. (2) Pressure regulator not enough pressure. (3) Electromagnetism valve not open. [4) Incorrect gas/air pressure setting. 	 (1) Adjust air compressor pressure. (2) Pull and turn pressure adjustment knob. (3) Adjust gas/air pressure control to 6-10kg.
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.













Switch