ANEL Electric Firemarker

Types: **AN1050ELF-ST & AN1050ELRD-ST**

User`s Manual

<u>Important!!!</u> Before you connect your Firemarker to the power supply read those directions carefully so you will be familiar with the use of the device. Keep the manual for future reference.

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DEVICE DESCRIPTION

Branding iron device trade type **AN1050ELF-ST** & **AN1050ELRD-ST** of the company ANEL - EE PANTELAKIS GP

Current: 230 Volts a.c. 50Hz
Power: 1500W
Weight of firemarker: 2,1Kg
Dimensions of firemarker: 32cm x 24cm x 7cm
Weight of heat regulator: 300gr
Dimensions of heat regulator: 18cm x 12cm x 13cm

The branding device AN1050ELF-ST & AN1050ELRD-ST belongs to the category of low voltage electric devices and has been manufactured according the direction 2014/35/EE

The heat regulator is a current regulator device and has been manufactured according the directions 2014/35/EE, 2014/30/EE and the standards EN 60669-1:2000, EN 60669-2-1:2002.

The marking surface may differ in dimensions depending of the desirable art work and can be between 12X3x5cm και 24X24x5cm

MATERIALS

- The non-metallic parts of the device are resistant to heat so an accidental contact with the Marking head will not damage them.
- The power plug is equipped with grounding.
- The cables from the heat regulator to the porcelain connector are heat resistant and flexible.
- The cables from the porcelain connector to the Marking head are covered with an asbestos free heat resistant protection so they will be protected from the heat of the Marking head.
- The Marking head is made from brass. This material transfers the heat fast and it has high level of heat storage to keep the temperature at 600°C which is the maximum working temperature. In order to avoid the leakage of the heat from the Marking head to the rest parts of the firemarker we interrupt asbestos free insulating materials.
- The handles are from wood. It does not transfer the heat, it is very light and very handling friendly.
- The body is made from stainless steel.
- The quality and the thickness of the materials are chosen in such way so they will not be deformed during the correct use of the device
- All the parts are resistance to the mechanical, chemical and heat forces that will be exposed to during its correct and according the directions use and maintenance.
- There are no parts with asbestos.
- The device is made in such a way that during its proper use there will be no deformation or movement of parts that could affect the safe use of the device.

FIRST STEPS!

Get familiar with the device and its function (photo 3).

- *Marking Head* **A**: It carries the mirror of the shape of your mark. It is the part that makes the difference between the model AN1050ELF-ST & AN1050ELRD-ST. When in proper temperature this is the part of the device you will touch on the surface which you will want to mark.
- *The Heat Regulator* **C**: By regulating the power you regulate the heat. With the power regulator you are able to regulate the heat of your Marking Head. Different materials need different temperatures to be marked correctly.
- *The body with the handles* **B**: You use the device by handling it only from the wooden handles. In that way you avoid burnings and accidents.
- *The resistance (inside the Marking Head)* **D**: The resistance will heat up the bronze head when in power.
- *The power cables* **E**: Always check for exposed wires or damaged cables before use.
- *The central power button of the heat regulator* **G**: It does not interrupt the power, you will need to unplug the device from the power when you want to service the device or open parts that could carry electricity.
- *The rotatable button of the heat regulator **F**:* When turned right it will increase the power that will arrive to the resistance and the temperature will be increased, when turned left it will decrease the power and the temperature.

(photo 3)

BEFORE YOU START

Before you start check for naked wires or damaged cables. If the replacement of them is not described in this manual please contact us (or the shop where you purchased the device) to instruct you on how you should send the device back for service.

Place the device on a horizontal heat resistance surface away from animals and children.

Stabilize the heat regulator box so it will be easy to use it from your working position.

USE OF THE DEVICE


Be sure the central power bottom is in position 0 (OFF).
Connect the plug into the proper power supply plug 220V .
Be sure the power supply is grounded and that the electric system has neutral interrupter.


Place the central power button at the position I (ON).
Power will be send to the heat resistance and the temperature will start to rise.
Regulate the temperature through the rotating bottom.

The switch CANNOT EXCEED POSITION 100%, DO NOT EXERCISE POWER TO EXCEED THIS LIMIT BECAUSE YOU WILL DAMAGE THE DEVICE .
It will take approximately 2-5 minutes at the 120% setting for the head to reach the ideal temperature. Once it reaches the ideal temperature, lower it to 100%. The ideal temperature for plastic hot stamping is 90%.

WARNING!!! Use heat insulated gloves for the whole duration of use. Handle the device through the 2 wooden handles.
Bring the Marking head parallel with the marking surface and press lightly and in a way so all the surface of the head with the mark you will print will come in touch with the surface.
Depending of the material and the temperature, the marking time could be between 1 and 5 seconds.
If the result does not satisfy you increase the temperature and try again.

WARNINGS

WARNING!!! Brass is an excellent material for fire marking. But the high temperatures make it soft. A high pressure would result in deformation of the marking surface. The printing surface is designed to mark with heat and not with pressure. The desirable result should arrive with heat and soft pressure. If you want deeper result try to increase the temperature or leave on the surface for a longer time.

You should always wait for 3-5 minutes until the Marking head reaches its proper temperature. Do not use the device if the Marking head has not reached the proper temperature.

TURNING OFF THE DEVICE

Place the device on a heat resistance horizontal surface away from children and animals.
Turn the central power bottom at the position 0 (OFF).
Unplug from the power supply.
Wait until the temperature of the Marking head reaches safe levels.

STORAGE

Store in its box away from children.
Avoid to damage the printing surface.
Keep dry at all times.

SAFETY WARNINGS

1. The device should be used by people able to handle high temperature devices with safety.
2. The power supply should be equipped with ground and neutral safety.
3. The device is designed to be used on wood leather and plastic surfaces. Be alert, some materials release poisonous fumes when exposed at high temperatures.
4. AVOID to breathe the fumes produced from the contact of the device with the marking surface.
5. Use the device in well ventilated places.
6. Keep the unprotected parts of your body away from the Marking head. It arrives at temperatures even above 700°C.
7. You should always be near and in charge when the device is in power. Never leave it unattended.
8. Use on living animals is forbidden.
9. Depending on the material you use the device on fire could be produced during the marking. Be prepare to control a possible fire.
10. The device should be used away from flammable materials.
11. During the function and use of the device you should have a fire extinguisher available.
12. Be protected, wear always heat insolated gloves during use.
13. Part of the heat is transferred in all the metallic parts of the device. Use only the wooden handles to handle the device.
14. The device is a professional tool that may be used under extreme conditions which could damage it without taken notice. There could be electricity in the metallic parts so avoid contact with them when the device is in power.
15. No part of the device is made to function in wet environment. Use the device only if it is dry.
16. If the device is in power, it is forbidden to wet any part of it. There could be a danger of electrocution.
17. Do not modify the device. Use only original spare parts.
18. The cables between the porcelain and the resistance are exposed to high temperatures. This makes them hard and fragile. Avoid to contact the cables in any way or you will expose the wires with danger of electrocution.
19. WARNING: There are exposed parts on the device that are very hot. Keep away from children and animals until you are sure the device is in a safe temperature.

TROUBLESHOOT GUIDE		
Trouble	**Possible cause**	**Correction steps**
The Marking head does not heat up	Burned fuse	Follow the directions of fuse replacement
	Burned resistance	Order a new resistance or deliver your firemarker to a service point
Marking is not deep enough	Low temperature	Increase the heat regulator. Wait 1 minute and try again.
	Damaged marking surface	Order new marking surface.
During continuous marking eventually the mark is not deep enough	Low temperature	Increase the heat regulator. Wait 1 minute and try again.
	The marking materials are wet or very cold and they absorb a lot of energy	You can use the firemarker on such materials but it will take more time to mark them.

MAINTENANCE AND REPAIR GUIDE

Fuse check-replacement

WARNING!!! Before you proceed be sure you have unplugged the device from the power source and the general power button is at the position 0 (OFF).



At the lower part of the heat regulator there is the fuse cover. It is stabilized with 2 screws. Unscrew them and lift up the cover.


Check the fuse. If it needs to be replaced lift it up with a screw driver until it is released from one side and then pick it up.


Place the new fuse and be sure it is well placed in its position.



Place the cover again in its place and screw the 2 screws that stabilize it.

You are ready.

Marking head and resistance replacement

WARNING!!! Before you proceed be sure you have unplugged the device from the power source and the general power button is at the position 0 (OFF). Also be sure the temperature of the device is such that will allow you to touch and handle it comfortably and with safety.

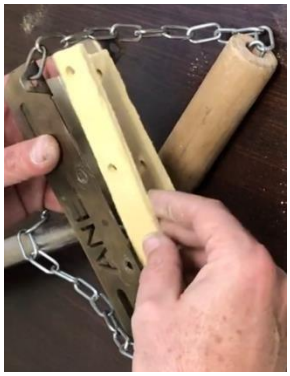
The insulators we use are of excellent quality and performance. But they cannot be reused. After they will be exposed at high temperatures they become brittle. We strongly advise not to use for a second time the insulators.

The resistance and Marking head replacements comes with the replacement insulators.



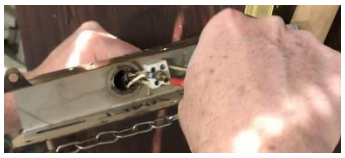

Unscrew the Marking head from the body by unscrew the 4 screws.

And take them completely out.

Pull the head until you can reach the porcelain connector.

Take out the old insulators.

Unscrew the screws that stabilize the cables of the resistance.

Take out the Marking head with the resistance.

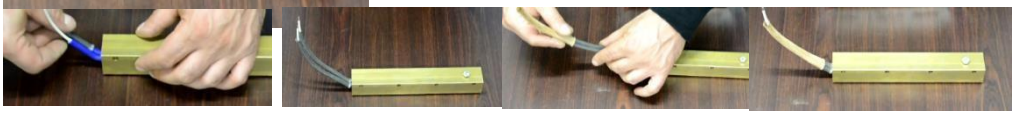
Loose (do not take out) the screw at the back of the Marking head. It keeps the resistance in its place.

Pull the resistance out of the Marking head. Check the inside of the hole for remains and if necessary clean them without harming the brass.

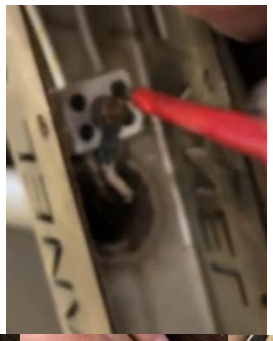

Insert the new resistance in the Marking head softly.

Place the resistance in an equal space left-right from the sides of the Marking mark.

Screw softly the screw at the back of the Marking head so it will secure the position of the resistance inside. Do not place a lot of force or you will damage the resistance.

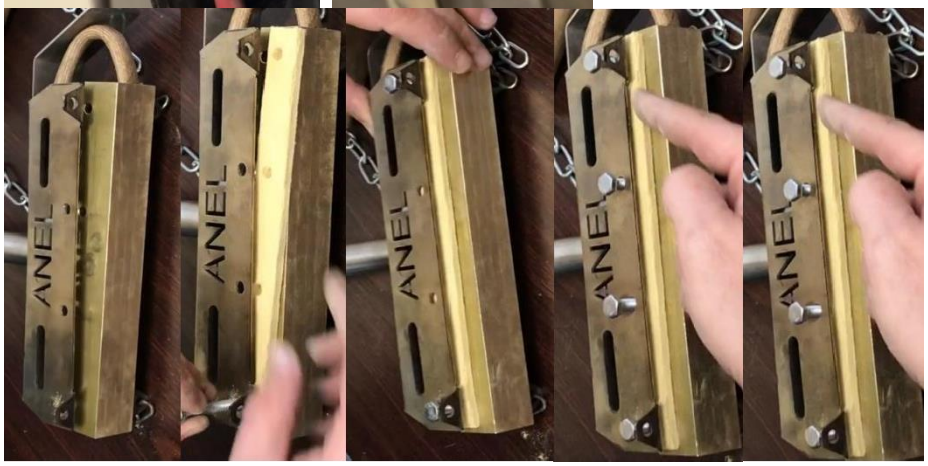


Place the insulator to the cables of the resistance.

Connect the edges of the cables with the 2 slots of the porcelain connector.

IMPORTANT!!! Be sure there are no naked wires coming out from the resistance, the cables or the connection. A contact with such a wire could result in life threatening electrocution or damaging of the device.



Push the Marking head back in its place and interrupt between the holders of the base and the Marking head the insulators. Be careful, the insulation material is very fragile. Insert the 4 screws.

Insert the nuts to the screws and fix them in place.

After such repairs it is wise to check with a proper tester for a possible leakage of electricity.

SPARE PARTS LIST

(If no product code is available the order is done with the description)

	PRODUCT CODE	DESCRIPTION	*PRICE
1A	AN1050ELF-H	Fire Marker`s Electric AN1050ELF-ST Marking Head without engraving	
1B	AN1050EL-3	Fire Marker`s Electric AN1050ELRD-ST spare bronze jaws	
2A	AN1050EL-5	Fire Marker`s Electric AN1050ELXXX base tube ϕ20 X 250 inox	

2B	AN1050EL-4	Fire Marker`s Electric AN1050ELXXX Grab Lips inox	
3	AN1050EL-1	Fire Marker`s Electric AN1050ELXXX Wooden Handle	
4	AN1050EL-6	Fire Marker`s Electric AN1050ELXXX handle chain 70cm galvanized	
5		screws inox M6 X 50 τεμ 4	
6		screws inox M6 τεμ 4	
7		nuts inox M6 X 10 τεμ 1	
8	MN-20-192077	Porcelain connector 2 position 2x1,5	
9		Marking head insulator	
11		Single cable insulator ϕ6 6m	
11		*Triple cable insulator* ϕ8 2m	
12		Resistance ϕ16X200 1500W 230V	
13		FUSE TUBE 5.2X20mm 250V 12A	

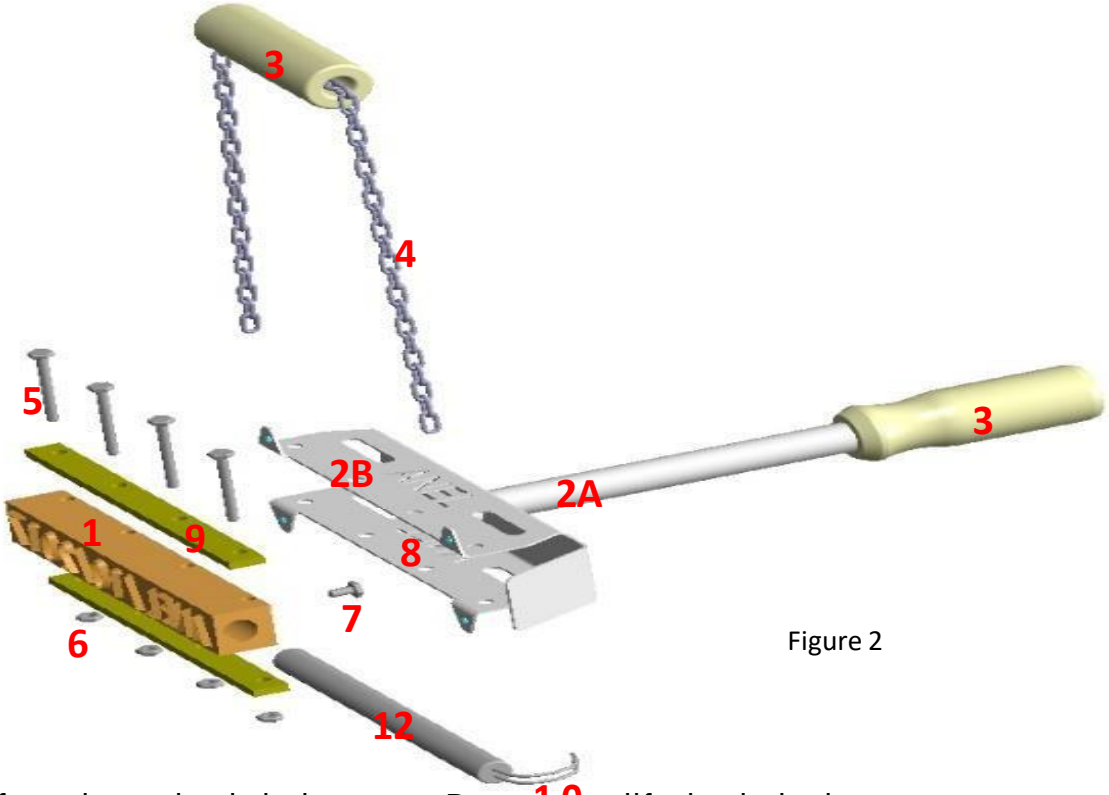


Figure 2

ct us for further information and technical support. Do not modify the device in any case.
IMPORTANT: Do not send the device to the manufacturer unless you have an approval for that.

MANUFACTURER CONTACT:

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GUARANTEE

WARRANTY INFORMATION
We guarantee that this product is suitable for the use described in this manual and has no material and manufacturing defects. The warranty is valid for 90 days from date of purchase. ANEL Co will repair or replace any defective materials, after examination / audit by our side of the device. The repair or replacement decision is left to the discretion of ANEL Co. If you want to raise warranty claims, please contact ANEL Co to determine remedies.
This guarantee relates exclusive remedy and does not make us responsible for any secondary, incidental, personal injury or damage to property. No warranty is valid in case of wrong use of the product, negligence or accident, or if it has been damaged during transport or in an accident or if the device has been modified or repaired by unauthorized person or if it is used in a manner inconsistent with the the manufacturer's instructions. This warranty applies only to products of which are held by people who have purchase the product of ANEL Co directly from the ANEL Co or by an authorized distributor or retailer of ANEL Co or a retailer of our network and is valid only for the products we supply . All Rights Reserved subsequent planning application or change of parts after publication without obligation to reissue descriptive forms or lists.
We make no other express warranty. Indirect guarantees, including suitability- and marketability of the product, limited to 90 days from date of purchase by the user. The purchaser must assume all responsibility for use of this product if it is not used according to instructions or failure to comply with the usual safety practices, or when used in abnormal conditions. The manufacturer's liability is stricktly limited to replacement or repair of the product.

NOTE: The limitation on the duration of implied warranty and / or secondary damages may not apply to you, if the legal framework in the area in which you live does not allow its implementation.