

# INSTRUCTION MANUAL

## E-CLAM REL / E-CLAM AUTO

### 50



**CE**

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## **CONDITIONS OF GUARANTEE**

- The guarantee period starts the day of putting the equipment into service at the user's place, materialized by the return of the guarantee bill for a duration of two years, 8h per day meaning about 3000 hours.
- The guarantee is strictly limited to our equipments, against the defects of matter and execution, with the buyer's responsibility to prove the known defects.
- Our responsibility is limited to the obligation to rectify or replace free of charge the parts acknowledged as faulty by ourselves, and there will no claim for any indemnity whatever the reason given.
- Parts replaced under the guarantee:
  - remain our property
  - are the subject of an invoicing of deposit
- A credit of cancellation is activated as soon as the faulty parts are returned.  
The return will have to occur ONE MONTH MAXIMUM after the intervention

### **THE GUARANTEE DOES NOT COVER :**

- The retail consumables such as:
  - Fuses, bulbs, joints, flexible devices, covers, nozzles, filters.....
  - The supplies, which are not our own manufacturing, undergo the guarantee of their manufacturer.

### **THE GUARANTEE DOES NOT APPLY :**

- To replacements, nor repairs which would result from normal wear and tear of apparatus and machines, of deteriorations and accidents coming from negligence, defect of monitoring and maintenance, defective use or modifications without our written agreement.
- In case of vice coming from the material supplied by the buyer, or a design imposed by the latter.
- To repairs which would result from deteriorations or accidents occurred during transport.
- To operations of maintenance and adjustments inherent in the use of the machine, and indicated in the maintenance manual, such as:
  - adjustments of intermediaries
  - screwing of piping, etc...



**For the pneumatic machines, any trace of detergent oil in the pneumatic circuit inhibits the conditions of guarantee previously mentioned.**

**For any technical information or spare parts orders,  
please give the reference number of the machine as well as its serial number**

# **SUMMARY**

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## **SPECIFICATIONS**

	<b>e-CLAM 50 / AUTO</b>
<b>Weight in running order</b>	<b>40kg</b>
Height	<b>460 mm</b>
Depth	<b>753 mm</b>
Width	<b>453 mm</b>
<b>Plate size</b>	<b>400 x 500 mm</b>
<b>Power supply</b>	<b>230 V Single phase + Ground 50/60 Hz</b>
Power	<b>2500 W</b>
Amperage	<b>16 A</b>
<b>Thermo regulator</b>	
Accurate to	+/- 2%
Range of control	0 à 250 °C
<b>Timer</b>	
Accurate to	+/- 1%
Range of control	0s à 9min59s
<b>Adjustable pressure</b>	0 to 0.3 kg/cm <sup>2</sup>

Non contractual document: according to the technical progress, we reserve the right to modify the characteristics of our products.

## **INSTALLATION OF THE MACHINE**

- Unpack the machine from the box.
- Install it on a safe table.
- To move the press, make sure it is cold and handle it by grabbing both plates (upper and lower) at the same time (machine closed).
- Remove the screw labelled « Transport security » before opening the press.
- Plug the machine electrically (230 Volt + Ground / 50 or 60 Hertz)

## **PARTS SUBJECTED TO WEAR AND TEAR**

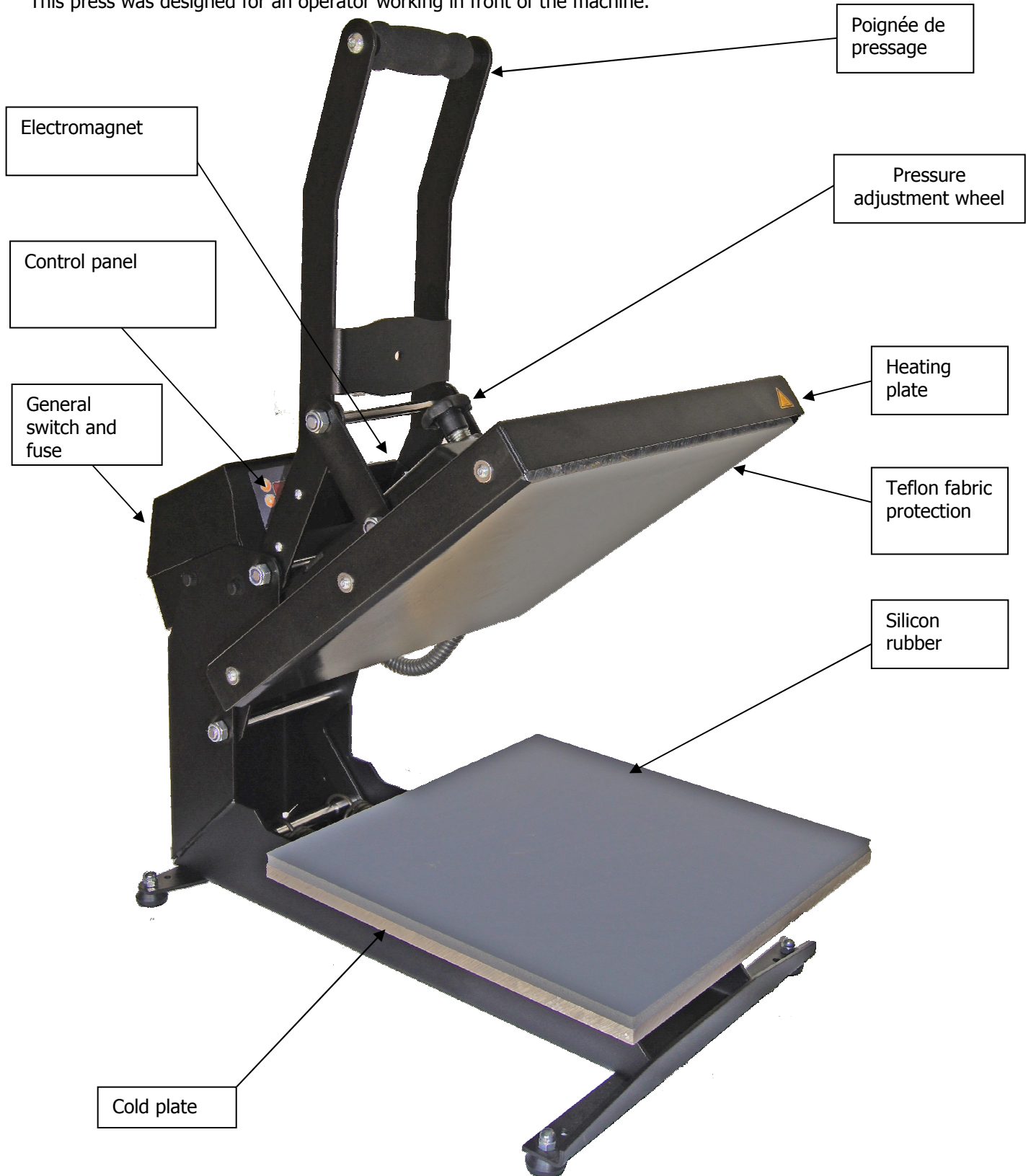
***For any order:*** precise the description, the reference and the quantity

<u><b>Reference</b></u>	<u><b>Description</b></u>	<u><b>Quantity</b></u>
CAR-CO2	ELECTRONIC CARD CO2	1
RES-682	HEAT ELEMENT MICA 400x500 2500W for <b>e-CLAM 50</b>	1
SON-189	SENSOR ( <b>E-CLAM AUTO</b> )	1
VEN-300	ELECTRO MAGNET 230V 7W ( <b>E-CLAM AUTO</b> )	1
FIN-231	MICROSWITCH WITH TONGUE	1
FUS-153	FUSE 16 A <b>e-CLAM 50</b>	1
RES-BI1	GAS SPRING ( <b>E-CLAM AUTO</b> )	1
MOU-540	SILICONE RUBBER 400x500 mm	1
TOI-4050	TEFLON FABRIC PROTECTION <b>e-CLAM 50</b>	1

## **GENERAL POINTS**

This press thermal paste has been designed to make a small batch production while respecting labour laws, to ensure the safety of the user.

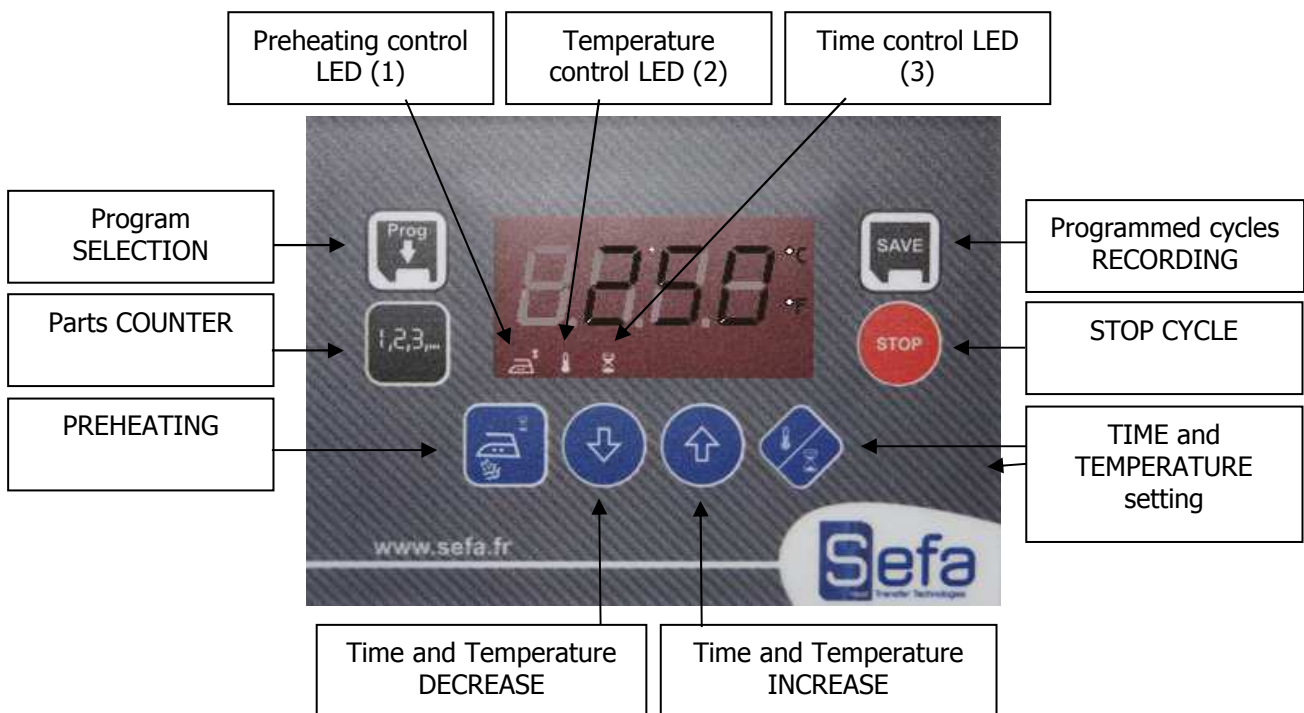
This press was designed for an operator working in front of the machine.



## **USAGE**

- It is recommended to read carefully the "instruction manual" before you start any pressing operation.
- The press will have to be used by a qualified person who will have been informed of the risks which can be caused by misuse of the equipment.
- Do not put any irregular, thick or sharp object inside the press, such as paperclip or staple, it could damage the Teflon sheet.

### **1. CONTROL PANEL**




### **2. USING THE CONTROL PANEL**


#### **i. Pressing time and temperature settings**



- Pressing time

Press TIME/TEMPERATURE key : the LED ③ lights and indicates that you can set the pressing time. The default value is set to 15 seconds.


You can change this value with the INCREASE key  or the DECREASE  key. Confirm

Confirm the desired value by pressing again on the TIME/TEMPERATURE  key. Now, you can adjust the set point temperature.

- Temperature

After setting the pressing time, the LED ② lights and indicates that you can adjust the set point temperature. The default value is set to 180° C.

You can change this value by pressing the INCREASE  key or the DECREASE  key.

Confirm the desired value by pressing again on the TIME/TEMPERATURE  key. Now, the press is ready to work.

## ii. Preheating cycle




The press is provided with a secondary timer for preheating. This function allows you preheat the textile before installing the transfer.

- Preheating time setting

Pressing PREHEATING  key, The LED ① lights.

You can change the value with the INCREASE  key or the DECREASE  key.

Confirm the value by pressing again on the PREHEATING  key.

If the value is 0 (default value), the preheating cycle will not be performed.

- Running

Install the textile without transfer on the plate.


Lower the heating plate : the secondary counter starts and the LED ① lights. At the end of the countdown, the buzzer rings and the press open automatically.

Install the transfer on the textile and lower the heating plate.

The main counter starts and the LED ③ lights. At the end of the countdown, the press open automatically.

Nota : the preheating temperature is the same as the set point temperature.

## iii. Stop Cycle


At any time, you can stop the cycle by pressing the STOP CYCLE  key. The press open automatically and the countdown stops.


## iv. Recording programmed cycles



You can record on this press up to 3 programs with different set points.

- Preheating time
- Pressing time
- Temperature

For recording the last set points used, press the RECORDING  key during 3 seconds. The display lights up with the program name to be recorded (First Pr1).

Choose the program name you want to be recorded by successive pressures on RECORDING  key : Pr1 → Pr2 → Pr3 → Pr1...

Press during 3 seconds on the RECORDING  key to save the program.

The buzzer indicates the recording success.




The default value for the 3 programs Pr1 to Pr3 is :

- 180° C. for the temperature
- 15 seconds for the pressing time
- 0 second for the preheating time

**v. Selection of programmed cycle**



To select a recorded program, press on the SELECTION  key : the screen displays the last program used. Press the key until the display of the desired program.

Keep the SELECTION  key pressed while 3 seconds to confirm your selection. The buzzer sound indicates the selection success. The temperature set point, the preheating time and the pressing time according to the selected program will be loaded automatically.


**vi. Parts counter**



The press has 2 parts counters :


- An erasable counter, with a possible reset
- A main counter, without reset.

- Erasable counter

Press one time on COUNTER  key : the screen displays during 5 seconds the number of cycles performed with success since the last reset.

A pressure of 3 seconds will reset the counter.

- General counter

Press 2 time on COUNTER  key : the screen displays the total number of cycles performed, into hundreds of pressing (Example : 230 indicates 23000 parts). Reset is not possible.

After 3 seconds, the screen returns to the normal display.

**vii. Warnings**

Message on the screen	Due to	Effect
Er1	Temperature probe default	Heating relay off
Err	Card probe default	Heating relay off
Col	Keyboard connection alarm	Relay off

Each alarm is accompanied by the activation of the buzzer, which can be stopped by pressing any key.

### **3. PRESSURE ADJUSTMENT**

- The pressure is obtained by approaching the upper/hot plate to the lower/cold plate.
- Unlock the nut underneath the adjustment wheel.
- Turn the wheel on top of the heating plate :
  - ↳ clockwise to increase the pressure
  - ↳ anticlockwise to decrease it
- Screw the nut back to lock and secure the system.

### **4. MAINTENANCE**

- Every day :
  - ↳ Clean the heating plate with a dry cloth.
- Depending on use :
  - ↳ Change the silicon rubber as soon as it is damaged or if it has lost its properties.
- Grease the axes of the machine every 6 months

## **CYCLE DESCRIPTION:**

- Turn on the machine by switching the power button.
- Adjust the desired temperature at 180°C (or depending on the type of transfer) See SETTINGS § 3.a).
- Adjust the time at 15 Sec (or depending on the type of transfer) See SETTINGS §3.b).
- Adjust the pressure (depending on the type of transfer).
- Install a T-shirt on the lower/cold plate.
- Add your transfer material on top of it.
- Lower the heating plate using the handle (once the plate has reached the desired temperature).
- When the plate is in contact with the T-shirt, the timer starts.

### **On E-CLAM MANUAL**

- Pull the heating plate up (support the heat plate by the handle until the end of the rise).
- At the end of the countdown, the buzzer will ring.

### **On E-CLAM AUTO**

- At the end of the countdown, the press opens automatically 2 seconds after
- If you want to stop the cycle, you can do so by pressing the stop button on the control panel: the press will automatically open in 2 seconds

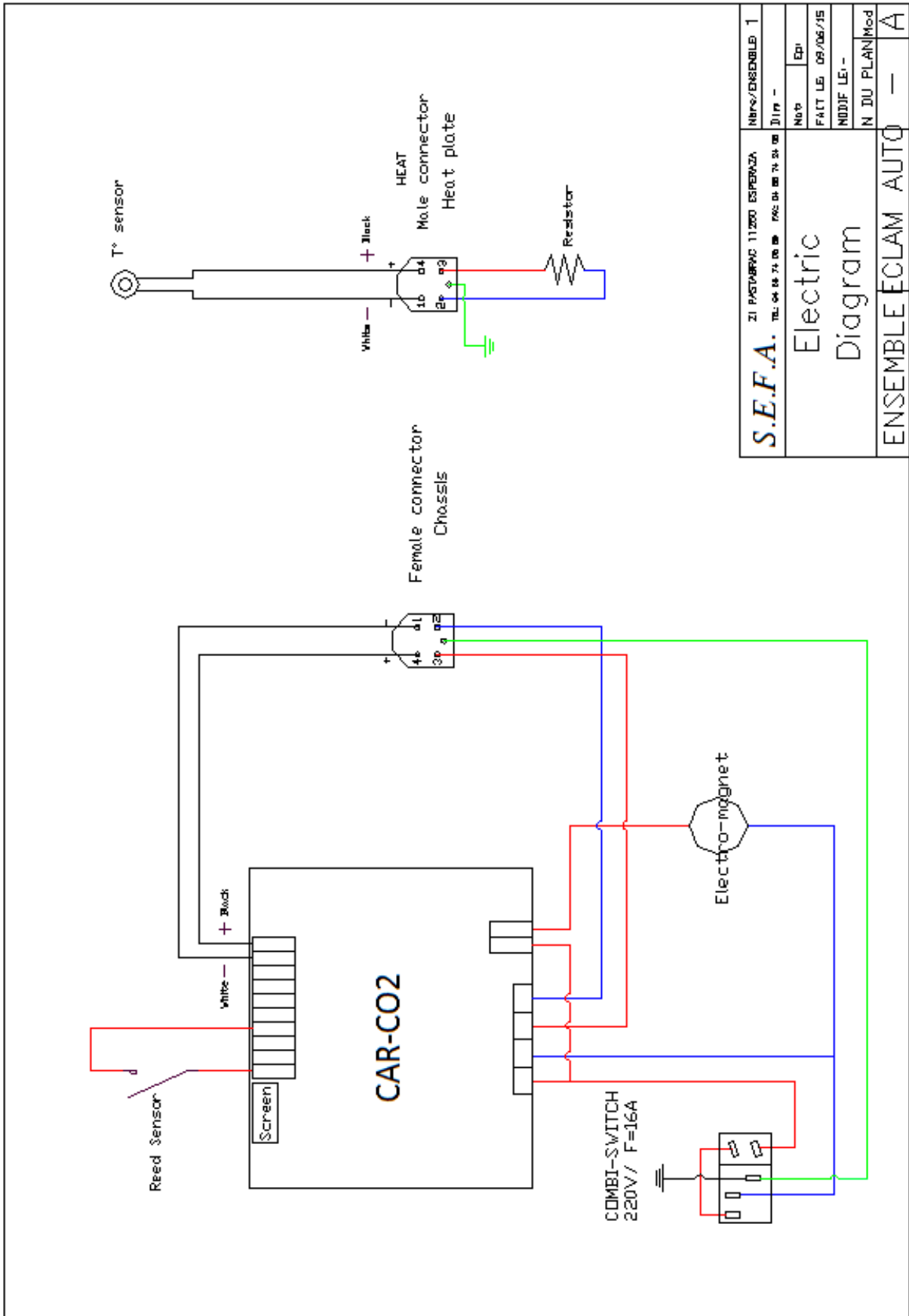
## **QUICK REPAIR ADVICES**



All repair and maintenance operations should be done when the machine is turned off and unplugged from the main electric power supply. The heating element can cause burns. The user must ensure the temperature is below 25°C on the display, before any intervention.

<i><b>SYMPTOMS</b></i>	<i><b>POSSIBLE BRAKDOWNNS</b></i>	<i><b>REPAIRS</b></i>
The plate will not heat	<ul style="list-style-type: none"> <li>➤ One of the fuses is out of order</li> <li>➤ The relay is damaged</li> <li>➤ Sensor out of order and/or regulator displays ER1</li> </ul>	<ul style="list-style-type: none"> <li>➤ If no light when the press goes on, check the fuse, change it if necessary.</li> </ul> <p><b><i>GENERAL FUSE</i></b> located in a seating next to the plug of the power supply cable (16 A ). To access it, pull the electrical cable off with the tip of a pen or a screwdriver, lift the fuse seating. You will find in a square tube a spare fuse to replace the one in the clip.</p> <ul style="list-style-type: none"> <li>➤ Check it out and change it if necessary</li> <li>➤ Change the sensor</li> </ul>
The plate overheats	<ul style="list-style-type: none"> <li>➤ The relay is stuck</li> <li>➤ The card is damaged</li> </ul>	<ul style="list-style-type: none"> <li>➤ Change the relay.</li> <li>➤ Change the card</li> </ul>
The timer doesn't start	<ul style="list-style-type: none"> <li>➤ The microswitch isn't activated</li> </ul>	<ul style="list-style-type: none"> <li>➤ Make sure the Microswitch tongue is touched by the pressing arm of the machine.</li> </ul>
The buzzer rings continuously	<ul style="list-style-type: none"> <li>➤ The Microswitch is stuck</li> </ul>	<ul style="list-style-type: none"> <li>➤ Release the Microswitch tongue or change it.</li> </ul>
The press doesn't stay closed	<ul style="list-style-type: none"> <li>➤ The Microswitch is stuck</li> <li>➤ The electromagnet is not activated or it is out of order</li> </ul>	<ul style="list-style-type: none"> <li>➤ Release the Microswitch tongue or change it.</li> <li>➤ Check the wires.</li> </ul>

# **ELECTRIC DIAGRAM**



## **NOTEMAKER**

A series of horizontal dashed lines for taking notes.