



## **Instruction Manual**

Version 12.01

Heat press

# **BluePRESSLine**

## **DTG-4-S**

# **1. Introduction**

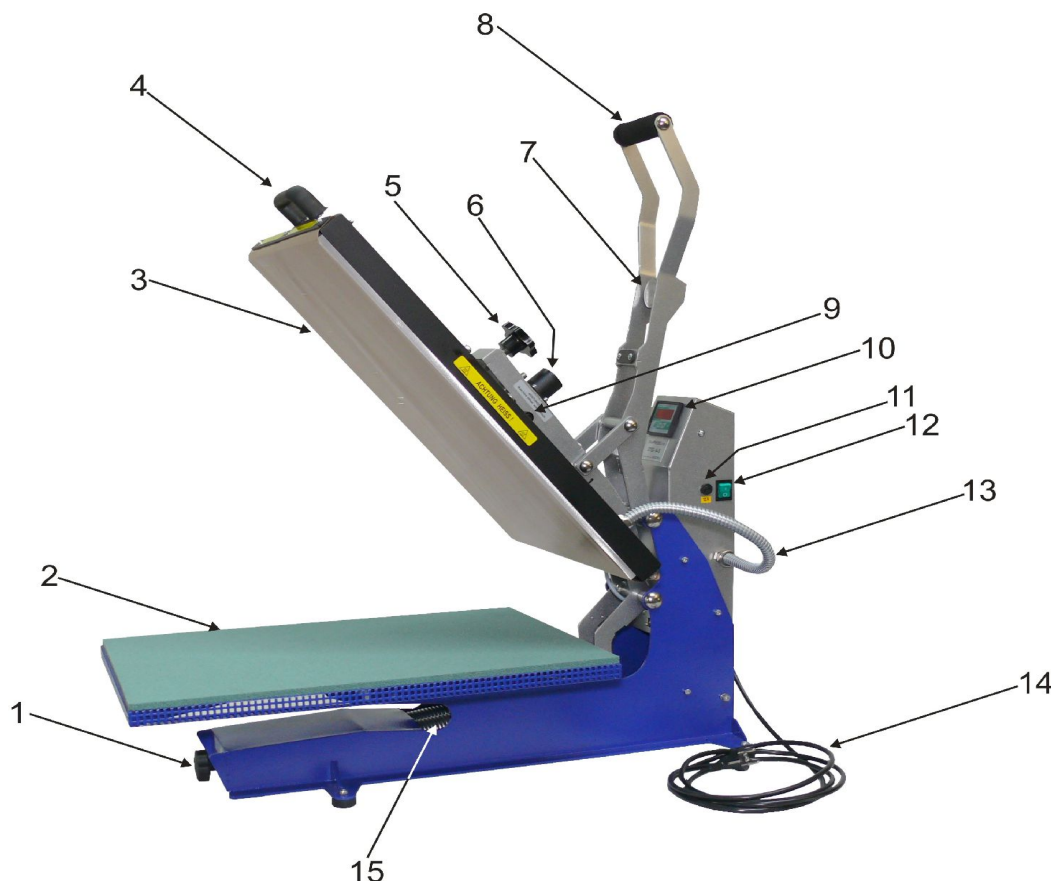
## **1.1 Content**

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## 1.2 Heat press Illustration

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1. Adjustment of the tension springs
2. Base plate
3. Heating plate
4. Grip
5. Contact pressure adjustment
6. Electromagnet
7. Closing disk of electromagnet
8. Compression lever with rubber grip

9. Electronic devices
10. STOP switch
11. Main fuse
12. Main switch
13. coiled cabel
14. Connection cable
15. Springs

## 1.3 Technical Data

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Press dimension: ..... 41 x 85 x 97 cm  
Working plate: ..... 40 x 60 cm  
Weight: ..... 41 kg  
Operating voltage: ..... 230 VAC  
Power with plate: ..... 2,4 kW  
Temperature range: ..... 0 – 220° C  
Time settings: ..... 1sek – 99:59 min  
Max. Pressure: ..... ca. 500 kg  
Main fuse: ..... 12A

## 1.4 Safety arrangements of the heat press

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The BluePRESLine DTG-4-S is equipped with different safety arrangements, to make a safe usage possible.

### Main fuse 12A

The main fuse 12A is placed in the pivoting upper part of the heat press. In case of overcharge, the main fuse prevents the heat press from getting damaged.

Once the fuse was activated, it has to be replaced. The instruction for replacing the main fuse can be found in chapter 4.3.

### Fuse 1,6A

This fuse is placed in the 12VAC power supply in the upper part of the heat press. It saves the 12VAC circuit of an overcharge. Once the fuse was activated, it has to be replaced. The instruction for the exchange you can see in chapter 4.4.

### Thermal fuse

The thermal fuse is placed directly on the heating plate and it stops the power supply if the temperature exceeds 260°C. If this fuse is activated, the temperature sinks down to 90°C. After that the power supply gets activated again and the temperature of the heating plate rises and you can work with the press again. Certainly you need to install a new thermal fuse within the next days. The instruction for the replacement of the thermal fuse can be found in chapter 4.8.

### Acoustic signal

3 Seconds before the end of the pressing process an acoustic signal will sound.

### Automatic switch-off

If the press doesn't get opened within 15 seconds after the pressing progress, the heating element switches off automatically, to avoid fire danger.

## 1.5 Safety arrangements at the workspace

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### Set-up and installation of the heat press

The set-up and installation of the press has to be controlled by an authorized person. Depending on the model and weight of the heat press, the installation has to be done by 2 or more persons.

The instruction for the set-up and montage of the heat press can be found in chapter 2.2.

### Testing the heat press

After a correct installation of the press it is important to ensure that the press works properly, isn't damaged and has no safety defects. The testing can only be done by the employer or other authorized persons and is mandatory to guarantee correct installation and safe usage of the press. The testing should be protocolled.

If any irregularities regarding functionality or safety are found during the testing, these have to be noted and reported to Walter Schulze GmbH in written form within 7 days. Until clarification the press can not be used.

### Information and Education

According to § 81 industrial relations law and § 14 employment protection law the employer has to make arrangements to give all information about the function and the range of application to the user.

In particular the user needs to be acquainted with the complete manual and be explicitly informed of the dangers of working with the press. The details have to be explained in a coherent form and language.

### Safety distance and ventilation

The press has to be installed at a place which gives enough space on both sides to put the material on.

The space in front of the press has to be wide enough to let nothing disturb the user at work.

Using the press with certain materials may create a strong smell. That's why the user should evaluate the need for a ventilation system at the workplace.

### Safety instruction:

- The press should only be used by trained personal after notice of this manual
- Only one person is allowed to work on the press at a time.
- Beware of heating plate – risk of burns.
- The plug has to be pulled out of the power outlet while maintenance.
- **Caution:** please do not connect this press to any other outlet (socket) than those equipped with *ground-fault protection* ELCB (earth leakage circuit breaker).

## **2. Initiation**

### **2.1 Tips for transport**

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The BluePRESSLine DTG-4-S is covered with a cardboard for transport. Right after the receiving you should check if the cardboard and the press are in good condition. Later on, if you have to send the press somewhere, we ask you to cover the press with the same cardboard and in the same way. The press has to be cold and the pressure lever has to be pulled down.

### **2.2 Installation of the heat press on the bench**

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The heat press is delivered in a cardboard. After unpacking and connecting heat press can be worked with. The BluePRESSLine Size 3-S heat press do not need any other installations.

### **2.3 Power supply**

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The BluePRESSLine DTG-4-S has to be connected to a voltage of 230VAC/ 50Hz. The press is equipped with a plug. Make sure that the power outlet is in the right condition and that the grounding is connected to the power outlet.

**Caution:** please do not connect this press to any other outlet (socket) than those equipped with *ground-fault protection* ELCB (earth leakage circuit breaker).

### **2.4 Initiation of the heat press**

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While powering up the press, the movable part has to be in the upper position, which means that the press has to be open. The press also has to be open while heating up. The press can be turned on with the green switch. If the green switch glows the press heats up to the adjusted temperature. After finishing the work with the press the switch has to be turned off and the plug has to be pulled out.

### 3. Working with the heat press

#### 3.1 Programming the electronic devices

After switching on the press, the current temperature is shown on the display and the press heats up.

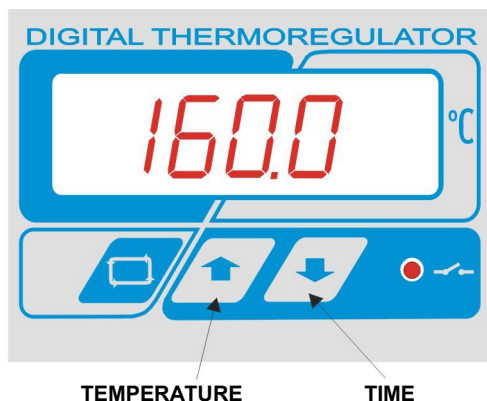
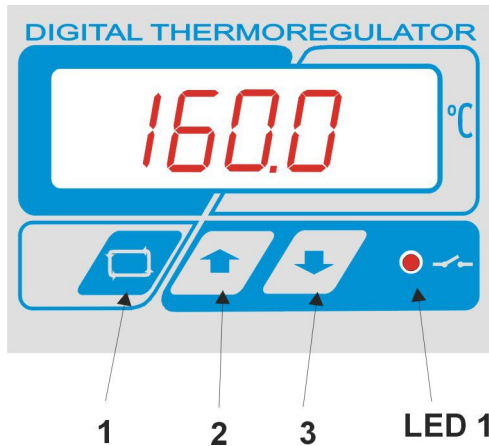
##### Change settings:

1. The programming mode shows up when you press **Button 1** for about 5 seconds, until the LED1 blinks up.
2. LED1 blinks and the programmed temperature shows up. The programming mode is activated.
3. The temperature gets programmed with button 2 and 3.
4. Press **Button 1** shortly.  
On the display you now can see the programmed time. You can adjust the time by pushing Button 2 and 3.
5. Press **Button 1** shortly.  
The display shows the programmed time for pre-pressing. With the Buttons **2** or **3** you can change the pre-pressing time.
6. Press **Button 1** shortly to save the changes and leave the programming mode.  
**All settings are saved.**

or

6. To get to the ECO programming, press **Button 1** for 3 seconds.
7. With **Button 2 and 3** you can switch between the ECO modes:  
„Eco 0” - ECO Mode turned off,  
„Eco 1” - ECO Mode turned on, after 30 minutes temperature drops 50°C, then after 60 minutes the heating elements turn off.  
„Eco 2” - ECO Mode turned on, after 60 minutes the temperature drops 50°C, then after 60 minutes the heating elements turn off.  
„Eco 3” - ECO Mode turned on, after 120 minutes the temperature drops 50°C, then after 60 minutes the heating elements turn off.

To leave the programming mode press **Button 1**.



Example: adjusted temperature 160°C

##### Control of the adjusted temperature

If you want to control which temperature is adjusted at the moment, press button 2(+). The temperature shows up on the display.

##### Control of the adjusted time

If you want to control which time is adjusted at the moment, press button 3(-). The time shows up on the display.

## 3.2 Bugfixing of the electronic devices

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The electronic devices of the BluePRESSLine DTG-4-S heat press control the main functions of the press.

Here is a list of possible messages:

ERR.1 – No connection of the electronic devices to the temperature sensor, (**Temperature sensor defect/** cable not connected)  
ERR.2 – Connection of electronic devices and temperature sensor bypassed , (**Temperature sensor defect/**)  
ERR.3 – Resistor of temperature sensor too low. The temperature range of the electronic devices is exceeded.  
ERR.4 – Resistor of temperature sensor too high. The temperature range of the electronic devices exceeded.  
ERR.5 – No temperature rise within 3 minutes even if heating element is switched on. (**Temperature fuse is defect**)  
ERR.6 – No reduction of the temperature within 3 minutes even if heating element is turned off. (**Power relay CRYDOM is defect**)  
ERR.7 – Temperature too high, over 230°C (**Power relay CRYDOM is defect**)

ERR.3 and ERR.4 can occur if the electronic devices are not programmed properly.

## 3.3 “ECO” Mode

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The "Eco" Mode is a special economic mode, which cools down the momentarily unused press about 50°C and turns off the heating elements later. Both will be signaled acoustically.

	temperature decreases About 50 degrees after	The heating elements turn off after
ECO 0	–	–
ECO 1	30 Minute	60 Minute
ECO 2	60 Minute	60 Minute
ECO 3	120Minute	60 Minute

The press gets activated again by pushing any button at the press.

## 3.4 Pre-pressing

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The BluePRESSLine S heat press has a new function, the pre-pressing. Before closing the press, push **Button 1** shortly (1 sec) to start the pre-pressing.

## 3.5 Application range and sample adjustments of the heat press

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This press is used to put transfers and transferfilms on textiles. To get good achievements, get in contact with the producer of the textiles. Here are some settings:

Film Flex	150°C – 160°C	Time	15 Seconds
Film Flex S	155°C – 160°C	Time	15 Seconds
Film A-Flex	155°C – 160°C	Time	15 Seconds
Film Flock	160°C – 180°C	Time	15 Seconds
Sublimation	150°C – 160°C	Time	50 Seconds

All indications without warranty, please do your own testing before producing.

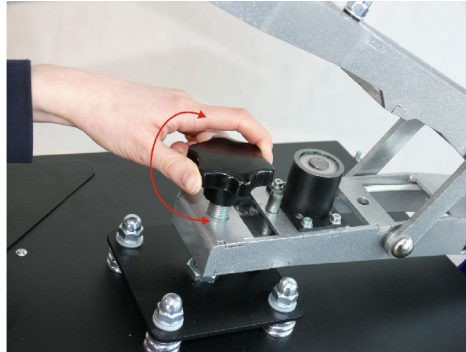
### 3.6 Pressure adjustments

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You can adjust the pressure very precisely. Do this by following this description:

1. Put a textile on the workplate.
2. Close the heat press and control the pressure. Then open the heat press.
  - o To increase the pressure- turn the knob right
  - o To decrease the pressure- turn the knob left.

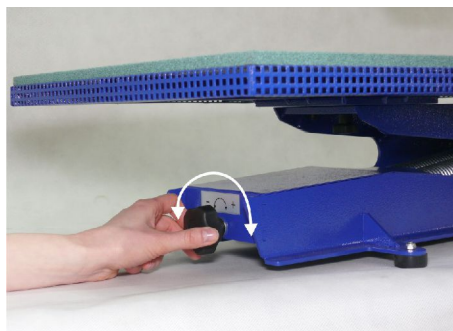
After every change of the pressure adjustment close the heat press to control the new settings. Damages caused by too high pressure adjustments does not include the guarantee.



### 3.7 Adjustment of the tensions springs

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If you notice that the heat press does not open correctly or it opens too fast or too slow , you can change the adjustment of the tensions springs. The screw of the spring adjustment is placed on the front of the heating press. You can increase or decrease the tension with this screw. If the heat press opens to fast you have to screw the knob left. If the heat press opens to slow you have to screw the knob right. After doing this check your new adjustment.



### 3.8 Adjustment of the electromagnet

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The electromagnet keeps the pressure lever constant and hold the heating plate down during the pressing process. When the time is over the plate will be released. This setup was adjusted in the factory.



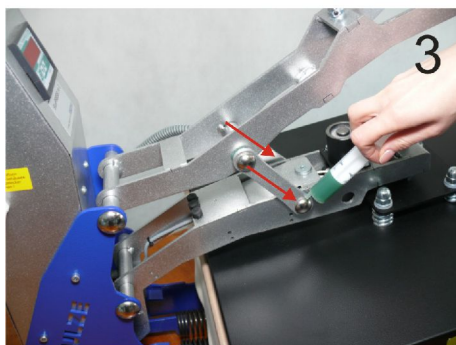
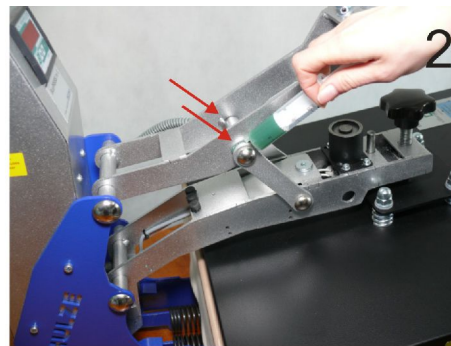
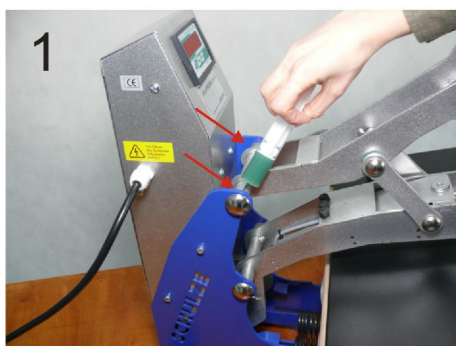
## 4. Maintenance

### 4.1 Daily Maintenance

The working surface of the heating plate and the base plate have to be clean. The heating plate can be cleaned with a clean, dry cloth. Avoid contact with the heating plate – risk of burns. The silicon gum can be cleaned with a soft cloth. You can use mild household detergent. Avoid scrub sponges, solvents or fuel.

### 4.2 Monthly Maintenance

Before beginning maintenance work, **control if the press is turned off and cold**. Disconnect the press from electricity. Some movable parts need to be greased. Greasing is needed after every **200 hours of usage**. You can take normal car grease which is **heat resistant up to 160°C**.



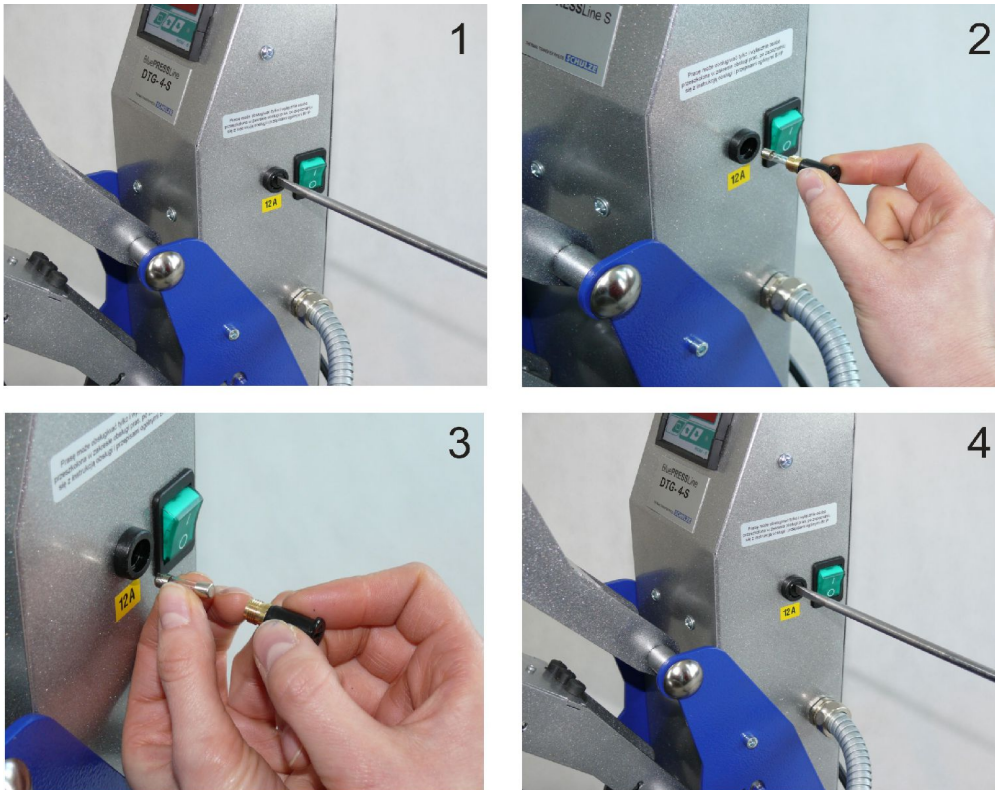
There are 4 points on the heat press, which have to be greased after 200 hours of usage. While greasing you have to move the pressure lever up and down slowly.

1. At the pressure lever, 2 little chambers (**photo 1**).
2. At the pressure lever, 2 little chambers (**photo 2**).
3. At the lower lever next to the base plate, 2 little chambers (**photo 3**).
4. At the lower lever, 2 little chambers (**photo 4**).

## 4.3 Replacing the main fuse

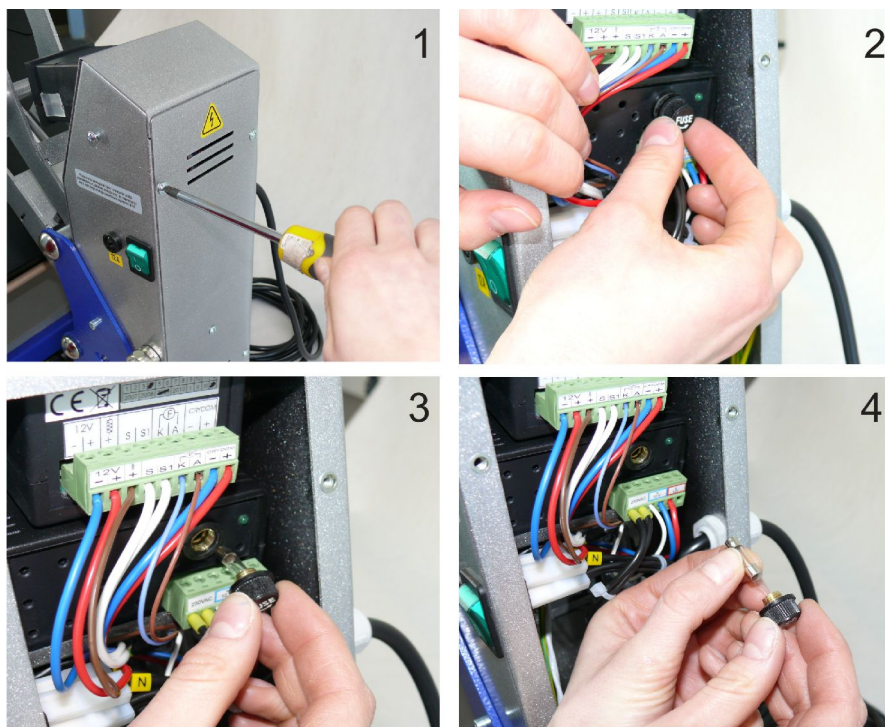
If the heat press does not work after switching on, check the main fuse of the press.

The main fuse 12 A is placed at the upper part of the heat press next to the main switch (**photo 1**). To exchange the fuse, **switch off the heat press first and pull the plug**. There are additional fuses in the manual. Then remove the fuse bracket (**photo 1**). Pull out the main fuse (**photo 2**). Replace the fuse (**photo 3**) and tighten the fuse bracket again (**photo 4**).



## 4.4 Replacing the fuse in the power supply

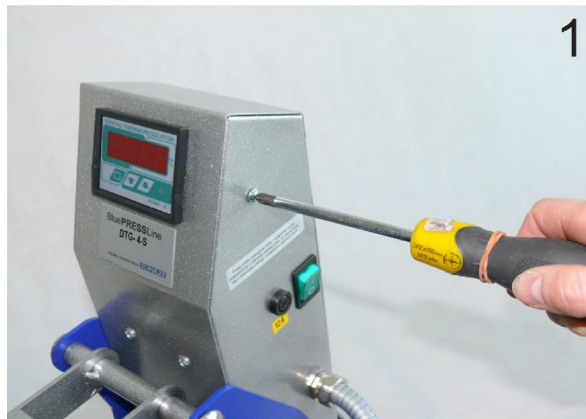
To exchange the fuse, **switch off the heat press first and pull the plug**. Remove the back cover (**photo 1**). Remove the bracket of the fuse (**photo 2**) and pull out the fuse 1,6A (**photo 3**). Replace the fuse (**photo 4**) and tighten the fuse bracket again.





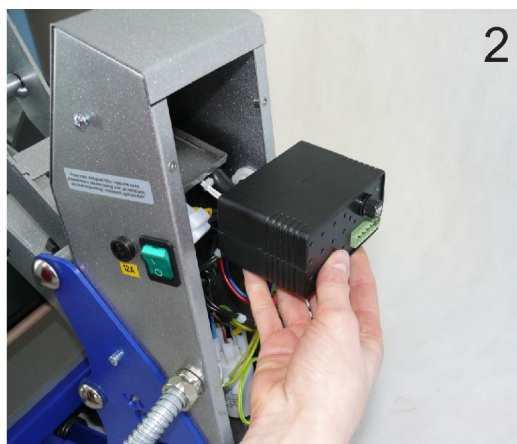
## 4.5 Replacing the electronic devices

The electronic devices are placed inside the heat press and are regulating the time and temperature. To change the main fuse switch off the heat press and pull the plug out from the wall outlet. Unscrew the fixation screws (**photo 1**) and remove the back cover (**photo 2**). Pull out the green plug and take the electronic device out (**photo 4**). Put the new electronic device in the heat press. Connect the electronic device with the green plug. Screw on the back cover and screw on the fixation screws. Check the heat press.



## 4.6 Replacing the power supply

To change the power supply switch off the heat press and pull the plug out from the wall outlet. Unscrew the back cover. Pull out the green plug (**photo 1**). Take the power supply out (**photo 2**). Put the new power supply in the heat press. Connect the green plug with the power supply. Screw on the back cover of the heat press. Check the heat press.



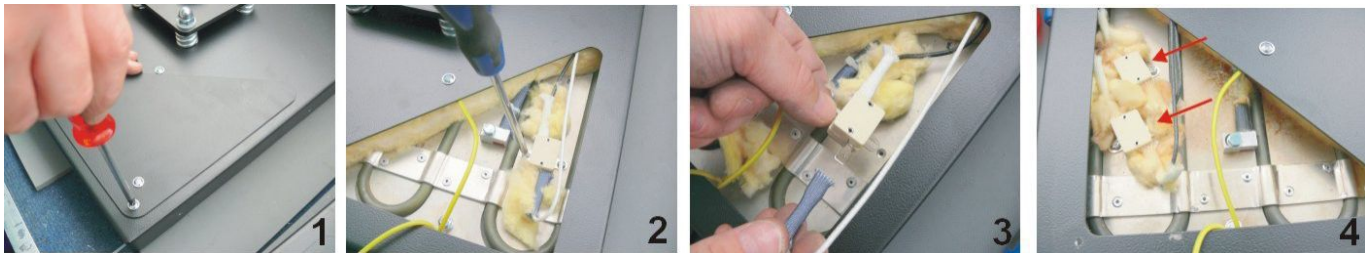
## 4.7 Replacing the silicon mat

To replace the silicon mat **the press has to be cold and disconnected from the electricity**. For the exchange you need a new silicon mat, silicon glue, acetone and a notched trowel.

1. Remove the silicon mat completely with a knife .
2. Clean the plate and the new silicon mat with acetone.
3. Put an equal film of silicon glue on the plate using the notched trowel.
4. Put on the new silicon mat.
5. Close the pressure lever gently to press the silicon mat and the plate together.
6. Make sure that the plate and the mat lays exactly over each other.
7. Remove remaining glue or overlapping mat from the edges of the press.
8. Let the glue dry for 24hours. Only then open the press.

## 4.8 Replacing the thermal fuse

For the replacement of the thermal fuse, the heat press **must be disconnected from the electricity and cold**. Remove the cap from the heating plate and remove the heat isolation (**photo 1**). Then remove the thermal fuse (**photo 2**) and connect a new one (**photo 3**). Do the same with the second thermal fuse (**photo 4**). Screw both on the plate, set in the thermal isolation and screw on the cap.

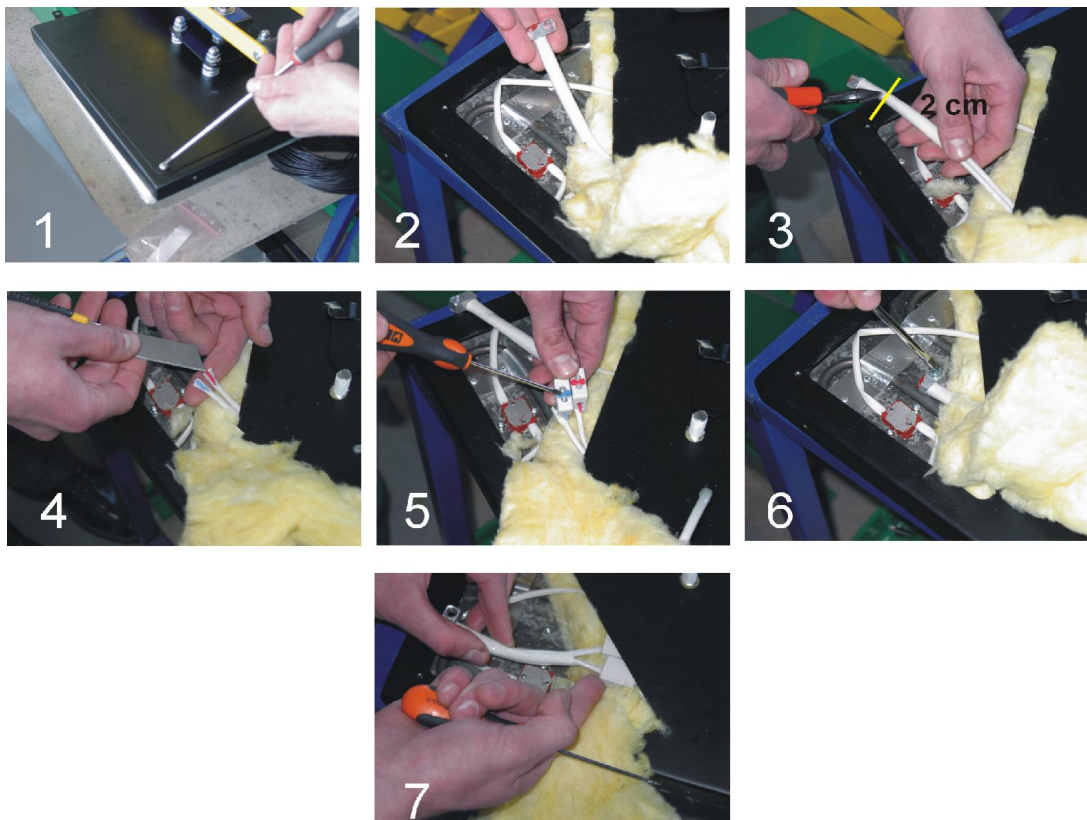


## 4.9 Replacing the temperature sensor

The replacement must be done by an authorized person.

To replace the temperature sensor **switch off the heat press, pull the plug and wait until the heat press is cool**.

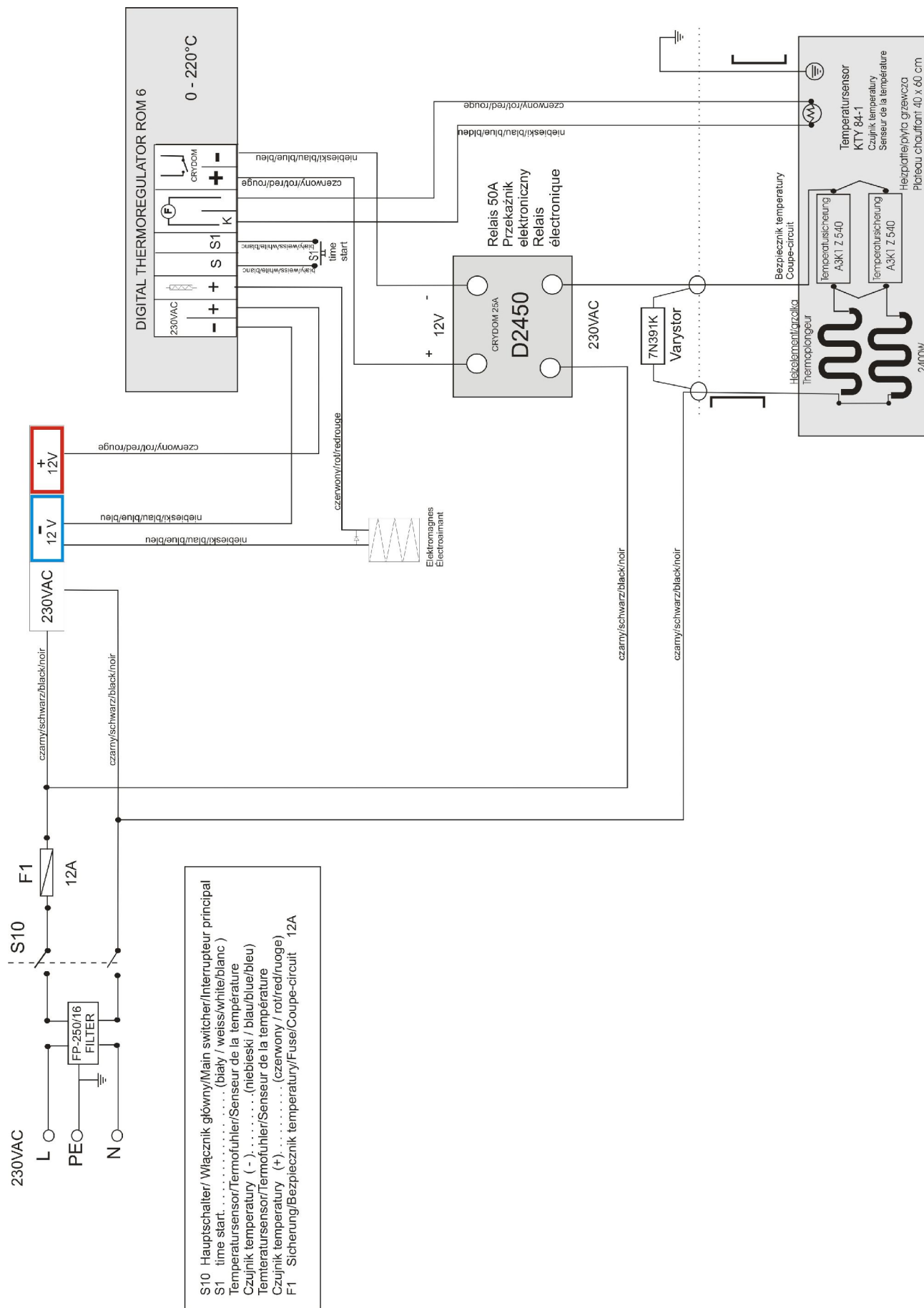
1. Screw the cap and take out the insulation loose (Photo 1)
2. Screw the temperature sensor loose (Photo 2)
3. Cut the cable with a gripper (Photo 3)
4. Strip part of cable insulation off (Photo 4)
5. Connect the cables (Photo 5)
6. **Please pay attention on the polarity – blue to blue and red to red.**
7. Fix the temperature sensor (Photo 6) Put the cables on the insulation and screw on the cap (Photo 7)



## 4.10 Troubleshooting

Problem	Cause	Debugging
Green switch glows, but: display do not glow heating plate do not heat	1. main fuse 12 A is defect	1. Replace main fuse 12 A
	2. if main fuse is okay, the electronic devices are defect	2. Replace electronic devices
heat press do not heat to adjusted temperature although red diode is glowing after switch on temperature raises and sinks after some time	temperature fuse on the heating plate is defect	replace temperature fuse (2 pieces)
display shows just 4 lines no temperature or time information	temperature sensor is defect or circuit to temperature sensor is disconnected	control the circuit to temperature sensor or replace temperature sensor
after closing the heat press no time settings are shown	bracket, which switches the START-Button is deformed	After pressing and holding the START-Button time information is shown, deform the bracket a bit
	START-Button is defect	After pressing and holding the START-Button Time information is not shown, replace the START-Button
no acoustic signal after time elapse	beeper is defect	replace electronic devices
temperature rises higher than adjusted Although red diode in display is not glowing <b>Example:</b> temperature 180°C was adjusted temperature rises to 180°C - red diode glows After attain temperature 180°C – diode terminates temperature raises over 220°C, then sinking to ca. 90°C and raises again to over 220°	power supply CRYDOM is defect	Replace power supply CRYDOM
SET-Buttons do not function no time or temperature settings possible	SET-Buttons are defect	replace electronic devices
temperature on heating plate is not the same as shown on display – temperature too low or high	breakdown of electronic devices	reset electronic devices after message, call Walter Schulze GmbH
Heat press raises very slowly – 30 minutes One half of the heating plate do not raise adjusted temperature red diode glows	one of the two heating spirals is defect	send heating plate to repair

## 4.11 Connection diagram



## 4.12 Testing Report

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final check of the heat press:

- |   |   |
|---|---|
| ○ - base, paint                                     | ○ - check of all functions                          |
| ○ - greasing of the waves                           | ○ - working time at 180°C ..... hours               |
| ○ - heating plate and baseplate, silicon, teflon    | ○ - temperature tolerance at 180°C ..... -/.....+°C |
| ○ - electronic connection, safety wire, power cable | ○ - working time at 220°C ..... hours               |
| ○ - electronic, max. temperature 220°C              | ○ - test with a transfer film                       |
|   | ○ - caution labels                                  |

Serial number ..... Date ..... Signature .....

## 4.13 EC-Conformance-Declaration after EC- guideline for machines 2006/46 EC

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The Walter Schulze GmbH  
Schmalenbachstraße 15  
12057 Berlin

as European representative of the manufacturer company ROMANIK hereby declares that the following machine:

Heat press ..... Serial number .....

is compliant with the specifications of the following EC directives:

Machinery ( 2006/46)  
Low Voltage (2006/95)  
EMC (2004/108)

used norms and technical specifications:

EN 292-1 EN 292-2 safety of machines  
EN 60204-1 electrical equipment of machines

Berlin , . . . . .

\_\_\_\_\_  
Peter Meidinger  
President

All SCHULZE heat presses are exempt from the waste disposal law under reg. no. DE 231060054.

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