

ADKINS

Studio Clam & Mini Clam



Operators Handbook

©2015 a.adkins and sons limited. all rights reserved

Preface

Dear User

Welcome to the growing group of Studio Clam Press and Studio Mini Clam Press users. The product you have purchased has been carefully designed and manufactured to ensure that you, the user, will gain the maximum benefit.

All A. Adkins & Sons Limited products are specifically designed to ensure ease of use with particular attention to safety requirements.

Should you discover any fault or damage upon receipt of this product, you should immediately contact your supplier.

Contents

1.	Introduction Studio Clam Press and Studio Mini Clam Press	1
1.1	Specifications of the Studio Clam Press and Studio Mini Clam Press	1
1.2	Safety	2
2.	Installation	3
2.1	Transport instructions	3
2.2	Installing the machine	3
2.3	Electrical requirements	3
2.4	Adjusting the pressure	4
3.	How to operate the Studio Clam Press Studio Mini Clam Press	5
3.1	Starting with the Studio Clam Press and Studio Mini Clam Press	5
3.2	Working with heat transfer materials	5
3.3	Pressing pad assembly	6
3.4	Shutting down the machine	6
4.	Maintenance of the Machine	7
4.1	Daily maintenance	7
4.2	Periodic maintenance	7
4.3	Cleaning	7
5.	Machine Drawings and Diagrams	8
5.1	General Layout	9
5.2	Exploded diagram and parts list – Studio Clam Press	10
5.3	Exploded diagram and parts list - Studio Mini Clam Press	11
5.4	Control unit operation	12
5.5	General electrical diagram	13
5.6	Detailed electrical diagram	14
6.	Design Change	15
7.	Guarantee (Limited Warranty)	16
	Declaration of Conformity	17

1. Introduction Studio Clam Press and Studio Mini Clam Press

1.1 Specifications of the Studio Clam Press and Studio Mini Clam Press

The Studio Clam Press and Studio Mini Clam Press are manually operated heat presses for transfer printing and material fusing. They are ideal for medium volume production.

The work areas are:

Studio Clam Press 38 x 38 cms (15 x 15 ins) and Studio Mini Clam Press 28 x 38 cms (11 x 15 ins).

Specifications

European Machines

	Studio Clam Press	Studio Mini Clam Press
Power consumption	2200 Watts	1750 Watts
Power supply	230 Volts AC	230 Volts AC
Max. working temperature	260°C	260°C
Machine height open	86 cms	86 cms
Machine height closed	34.5 cms	34.5 cms
Machine width	38 cms	28 cms
Machine depth	61 cms	61 cms
Net weight	31 kg	27 kg
Press pad dimensions	38 x 38 cms	28 x 38 cms
Mains Fuse	15 A	10 A
Auxiliary Fuse	2 A	2 A

Specification

USA Machines

	Studio Clam Press	Studio Mini Clam Press
Power consumption	1600 Watts	1350 Watts
Power supply	110 Volts AC	110 Volts AC
Max. working temperature	500°F	500°F
Machine height open	34 ins	34 ins
Machine height closed	13.5 ins	13.5 ins
Machine width	15 ins	11 ins
Machine depth	24 ins	24 ins
Net weight	68 lbs	59.5 lbs
Press pad dimensions	15 x 15 ins	11 x 15 ins
Mains Fuse	20 A	16 A
Auxiliary Fuse	2 A	2 A

1.2 Safety Tips

- ◆ **If required, our customer service team** can arrange maintenance service.
 - ◆ **The Studio Clam Press and Studio Mini Clam Press** meet the European Legislation standard. Under normal conditions accidents are rare. However listed below are some practical points to ensure your safety.
 - **Always use both hands** when opening or closing the press for positive control of the movement of the handle.
 - **Always switch off** the current (and pull plug out of the socket) when undertaking maintenance work or when cleaning the machine.
 - **Ensure that there is** sufficient space around the machine. Cables and connections must not get jammed. Although the heat radiation of the press is low, there should be enough space for cooling down.
 - **Avoid contact** with the heat plate.
 - ◆ **DO NOT REMOVE THE INSTRUMENT COVER UNLESS QUALIFIED TO DO SO** - touching internal parts is dangerous and may cause shock hazard. All electrical connections inside covers are live. Never operate Press with any covers and/or guards removed.
 - ◆ **PROTECT THE MAINS CABLE** - damage to the mains cable may cause fire or shock hazard. When unplugging, hold by the plug only and remove carefully. Take care that the mains cable does not come into contact with the heat plate (or moving parts of the mechanism) during operation of the machine.
 - ◆ **OPERATING AMBIENT TEMPERATURE RANGE** - the operating ambient temperature range is 32°F - 104°F, (0°C - 35°C) and humidity of 20 - 80%.
 - ◆ **MACHINE FUSES** - type: ultra-rapid (FF) fuses 1¼” 240 Vac max. 15 amps. (110 Vac max. 15 amps) for the **Studio Clam Press** 240 Vac max. 10 amps. (110 Vac max. 10 amps) for the **Studio Mini Clam Press**.
 - ◆ **WARNING - THIS APPARATUS MUST BE EARTHED (GROUNDED)**
 - ◆ **CAUTION**
This machine gets hot whilst operating. Take care not to touch any surfaces that are labelled “Caution this plate is HOT”.
 - ◆ **MACHINE OPERATION**
Only persons trained to do so should operate this machine.
-

2. Installation

2.1 Transport instructions

The machine comes to you either shrink-wrapped or in a box. If you have to transport the machine at any time it is recommended that you use a similar box and packing method. Please let the machine cool down and lower the handle to the locked position.

2.2 Installing the machine

- 2.2.1 **Remove all** packaging from the heat press.
- 2.2.2 **Check to ensure** that no damage has been caused to the machine during transit.
- 2.2.3 **Place the machine** on a sturdy horizontal surface that is within easy reach of the operator and allow space for the handle to move up to the loading position. Ensure that no items vulnerable to heat radiation are too close to the machine.

2.3 Electrical requirements

The Studio Clam Press and Studio Mini Clam Press should be connected to the mains supply, (nominally 230V AC for the European Market or 110V AC for America) by the mains cable provided and a suitable plug.

The presses are designed for 230 volts AC 50/60 hertz and require exclusive use of a power outlet rated for at least 15 amps for **Studio Clam Press** and 10 amps for **Studio Mini Clam-Press**.

Ensure that the supply rating on the machine specification plate corresponds with your local supply and that the correct plug is fitted (Europe), **OR** for 110 volts AC $\pm 5\%$, 15 amps for **Studio Clam Press** and 10 amps for **Studio Mini Clam Press** (America).

MAINS LEAD

The wires in this mains lead are coloured in accordance with the following code:

Green and Yellow:	EARTH
Blue:	NEUTRAL
Brown:	LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:-

Electrical requirements (cont.)

1. **The wire coloured green and yellow** must be connected to the terminal in the plug that is marked by the letter E, or by the safety earth symbol coloured green, or green and yellow.
2. **The wire coloured blue** must be connected to the terminal, which is marked with the letter N.
3. **The wire coloured brown** must be connected to the terminal, which is marked with the letter L.

NOTE:

Replacement of the mains cable must be done by a competent service engineer.

HEATING ELEMENT

The heating element fitted to the **Studio Clam Press** is rated at 2200 Watts and the element for the **Studio Mini Clam Press** is rated at 1750 Watts.

Never connect to any outlet or power supply having a different voltage/frequency from that on the machine data plate.

2.4 Adjusting the pressure

This press is fitted with a pressure-adjusting unit, which enables the heat plate assembly to be raised or lowered by use of a pressure adjustment knob located on the top of the heat plate:

- a) **To increase pressure** or to use thinner materials turn knob clockwise.
- b) **To decrease pressure** or to raise the heat plate assembly to enable thicker materials to be used, turn the adjustment knob anticlockwise.

NOTE

DO NOT adjust the pressure when the machine is clamped shut

CAUTION

This machine is designed to be used with a light to medium clamping pressure. If the pressure of the machine is adjusted too high this may cause damage to the machine and invalidate your warranty. Other machines are available for high-pressure applications. Please ask your supplier for details.

3. How to Operate the Studio Clam Press and Studio Mini Clam Press

3.1 Starting with the Studio Clam Press and Studio Mini Clam Press

3.1.1 Plug into your supply outlet and switch supply on.

N.B. Please ensure the mains plug is easily accessible to the operator so that in the event of a fault the machine can be unplugged.

3.1.2 Turn on the Studio Clam Press and Studio Mini Clam Press; the on/off switch is on the side of the machine. Set the machine controls as necessary. See instructions for adjusting the pressure, page 4 and operation of Control Units page 12. Press red on/off button to activate and heat the Heat Plate.

3.2 Working with Heat Transfer Materials

Always ascertain from the supplier of material and transfer paper, that the material to be used is suitable for, and has been prepared for transfer printing.

3.2.1 Close the press to check the amount of closing pressure the machine has been set at. If more or less pressure is required then open the machine and turn the pressure-adjusting knob located on top of the heat plate. For further instructions see “pressure adjustment”.

3.2.2 Ensure that the heat controller is set to the correct setting for the material being used. Before using the machine, preheat the base pad of the machine by closing and re-opening the press a number of times.

After pre-heating ensure that the machine is in the fully open position.

3.2.3 Place the article to be transfer printed onto the pressing pad and locate the transfer paper/substrate material on top in the position required. **Take care not to touch the heat plate to avoid the risk of a burn.**

3.2.4 Lower the heat plate by pulling down the handle.

3.2.5 When the required time interval has elapsed the alarm will sound and the press should be opened by lifting the handle up until it locks into position.

Working with Heat Transfer Materials (cont.)

Unload the garment from the table of the machine taking care not to touch the heat plate to avoid risk of a burn.

3.3 Pressing Pad Assembly

The pressing pad normally supplied with this machine is silicone rubber. The pressing pad must be maintained in good condition at all times and replaced when showing signs of wear. A worn pressing pad will always affect the quality of printing/fusing. Do not insert items into the machine, which would tend to cut the pressing pad, i.e. buttons, pins, press-studs or zips.

Never allow the hot heat plate to rest on the pressing pad when the press is not being used as the pad may be damaged.

IMPORTANT NOTE:

The pressing pad supplied with the machine is of the correct thickness. Using a thicker pad may invalidate your warranty.

3.4 Shutting Down the Machine

To shut down the machine, turn off the on/off switch at the side of the machine. The handle should be in the up position.

4. Maintenance of the Machine

4.1 Daily Maintenance

For good press results it is important to keep the press surfaces clean. Wipe the surface of the heat plate with a dry cloth before use when the plate is cold.

4.2 Periodic Maintenance

Put a few drops of oil onto the various pivot pins and the pressure adjusting screw every three months.

4.3 Cleaning

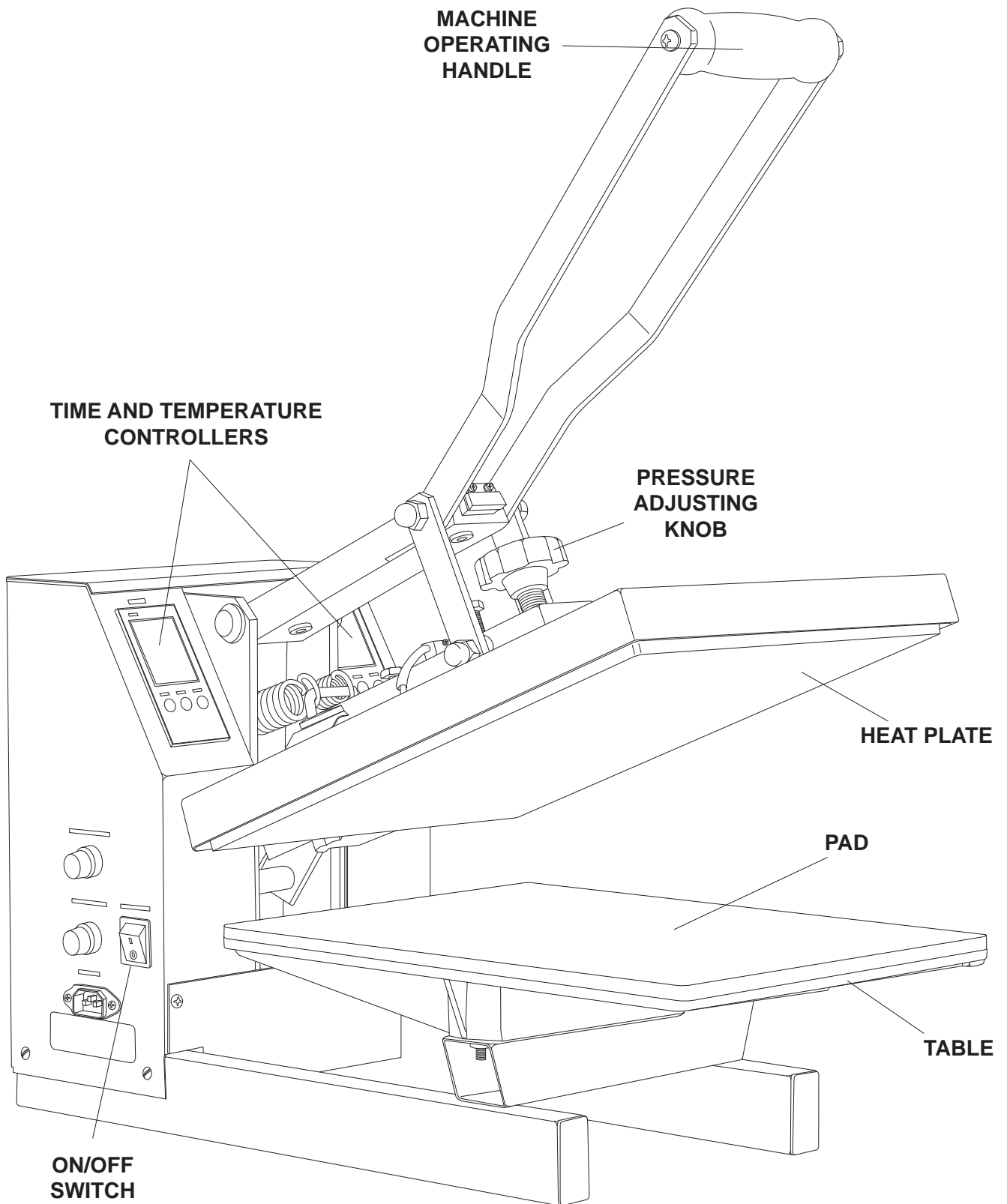
Clean the outside of the machine frequently with a clean, moist cloth. This may conveniently be carried out before starting when the machine is **cool**. First unplug the machine!

5. Machine Drawings and Diagrams

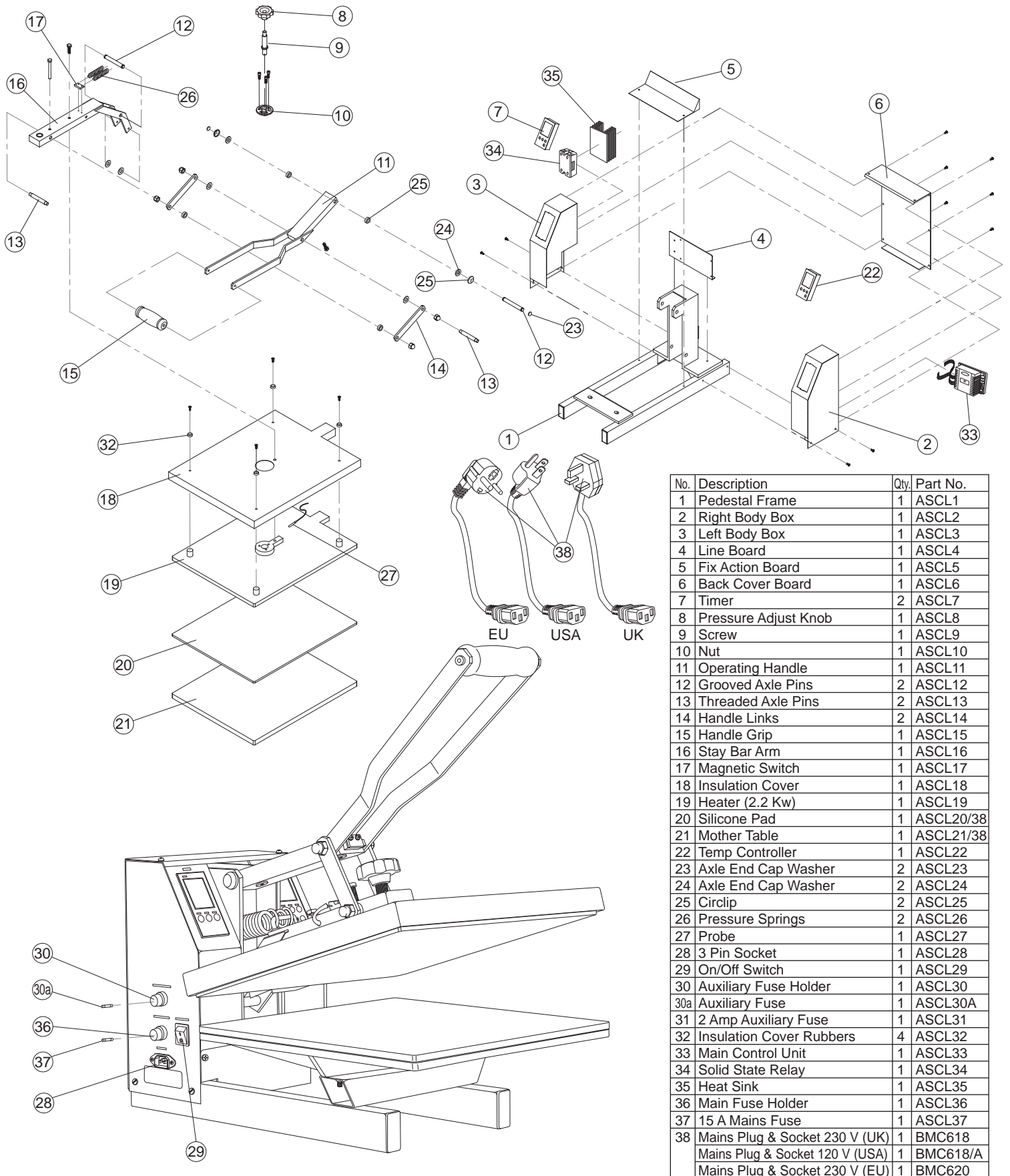
On the following pages are the schematic diagrams for the Studio Clam Press and Studio Mini Clam Press.

5.1	General Layout.....	Page 9
5.2	Exploded diagram and parts list Studio Clam Press.....	Page 10
5.3	Exploded diagram and parts list Studio Mini Clam Press	Page 11
5.4	Control unit operation.....	Page 12
5.5	General electrical diagram.....	Page 13
5.6	Detailed electrical diagram.....	Page 14

5.1 Machine General Layout

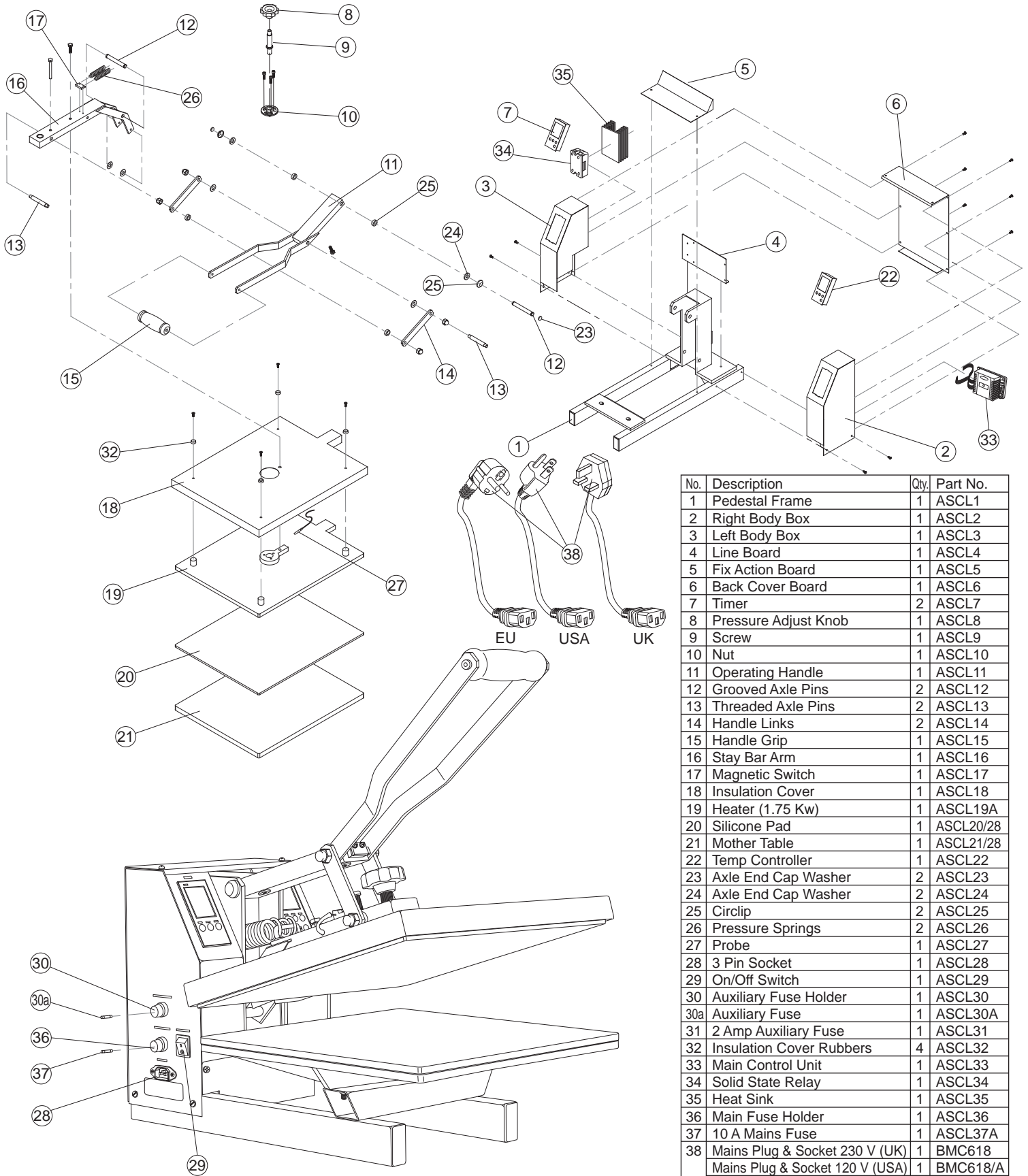


5.2 Exploded Diagram and Parts List (Studio Clam Press - 38cmx38cm Heat Plate)



No.	Description	Qty.	Part No.
1	Pedestal Frame	1	ASCL1
2	Right Body Box	1	ASCL2
3	Left Body Box	1	ASCL3
4	Line Board	1	ASCL4
5	Fix Action Board	1	ASCL5
6	Back Cover Board	1	ASCL6
7	Timer	2	ASCL7
8	Pressure Adjust Knob	1	ASCL8
9	Screw	1	ASCL9
10	Nut	1	ASCL10
11	Operating Handle	1	ASCL11
12	Grooved Axle Pins	2	ASCL12
13	Threaded Axle Pins	2	ASCL13
14	Handle Links	2	ASCL14
15	Handle Grip	1	ASCL15
16	Stay Bar Arm	1	ASCL16
17	Magnetic Switch	1	ASCL17
18	Insulation Cover	1	ASCL18
19	Heater (2.2 Kw)	1	ASCL19
20	Silicone Pad	1	ASCL20/38
21	Mother Table	1	ASCL21/38
22	Temp Controller	1	ASCL22
23	Axle End Cap Washer	2	ASCL23
24	Axle End Cap Washer	2	ASCL24
25	Circlip	2	ASCL25
26	Pressure Springs	2	ASCL26
27	Probe	1	ASCL27
28	3 Pin Socket	1	ASCL28
29	On/Off Switch	1	ASCL29
30	Auxiliary Fuse Holder	1	ASCL30
30a	Auxiliary Fuse	1	ASCL30A
31	2 Amp Auxiliary Fuse	1	ASCL31
32	Insulation Cover Rubbers	4	ASCL32
33	Main Control Unit	1	ASCL33
34	Solid State Relay	1	ASCL34
35	Heat Sink	1	ASCL35
36	Main Fuse Holder	1	ASCL36
37	15 A Mains Fuse	1	ASCL37
38	Mains Plug & Socket 230 V (UK)	1	BMC618
	Mains Plug & Socket 120 V (USA)	1	BMC618/A
	Mains Plug & Socket 230 V (EU)	1	BMC620

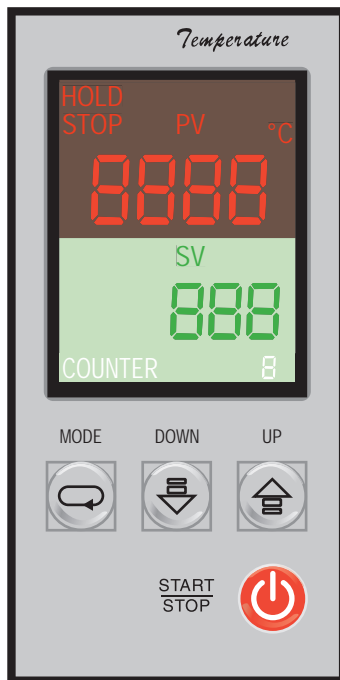
5.3 Exploded Diagram and Parts List (Studio Mini Clam Press - 28cmx38cm Heat Plate)



No.	Description	Qty.	Part No.
1	Pedestal Frame	1	ASCL1
2	Right Body Box	1	ASCL2
3	Left Body Box	1	ASCL3
4	Line Board	1	ASCL4
5	Fix Action Board	1	ASCL5
6	Back Cover Board	1	ASCL6
7	Timer	2	ASCL7
8	Pressure Adjust Knob	1	ASCL8
9	Screw	1	ASCL9
10	Nut	1	ASCL10
11	Operating Handle	1	ASCL11
12	Grooved Axle Pins	2	ASCL12
13	Threaded Axle Pins	2	ASCL13
14	Handle Links	2	ASCL14
15	Handle Grip	1	ASCL15
16	Stay Bar Arm	1	ASCL16
17	Magnetic Switch	1	ASCL17
18	Insulation Cover	1	ASCL18
19	Heater (1.75 Kw)	1	ASCL19A
20	Silicone Pad	1	ASCL20/28
21	Mother Table	1	ASCL21/28
22	Temp Controller	1	ASCL22
23	Axle End Cap Washer	2	ASCL23
24	Axle End Cap Washer	2	ASCL24
25	Circlip	2	ASCL25
26	Pressure Springs	2	ASCL26
27	Probe	1	ASCL27
28	3 Pin Socket	1	ASCL28
29	On/Off Switch	1	ASCL29
30	Auxiliary Fuse Holder	1	ASCL30
30a	Auxiliary Fuse	1	ASCL30A
31	2 Amp Auxiliary Fuse	1	ASCL31
32	Insulation Cover Rubbers	4	ASCL32
33	Main Control Unit	1	ASCL33
34	Solid State Relay	1	ASCL34
35	Heat Sink	1	ASCL35
36	Main Fuse Holder	1	ASCL36
37	10 A Mains Fuse	1	ASCL37A
38	Mains Plug & Socket 230 V (UK)	1	BMC618
	Mains Plug & Socket 120 V (USA)	1	BMC618/A
	Mains Plug & Socket 230 V (EU)	1	BMC620

5.4 Operation Of Control Units, Setting Temperature and Time

(The press must always be in the open position before the controller is set)



Setting Temperature

1. Switch on machine.
2. Press 'UP' and 'DOWN' buttons to change temperature values.
3. The unit stores automatically once required value is achieved.
4. Press 'START/STOP' button to start machine heating.



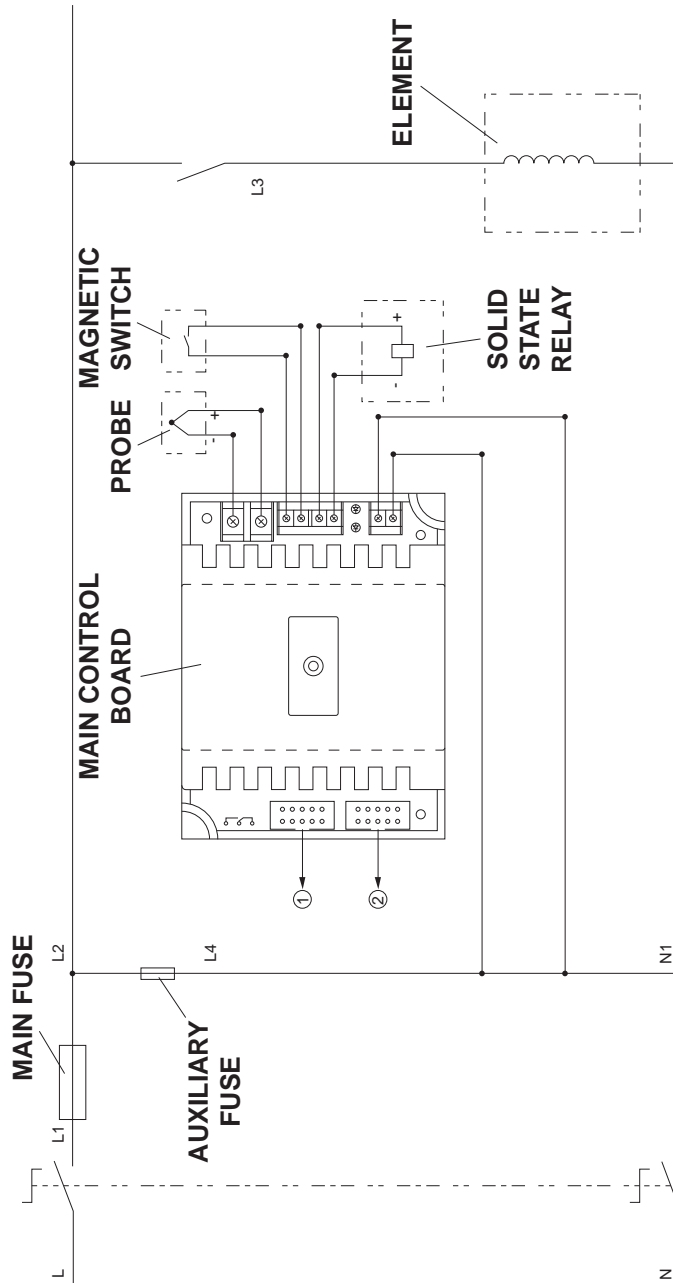
Setting Time

1. Switch on machine.
2. Press 'UP' and 'DOWN' buttons to change time values.
3. The unit stores automatically once required value is achieved.
4. Press 'START/STOP' button to start machine.

Setting Digital Counter to Zero

1. Press 'CLEAR' button and 'COR' will appear in controller window and 'COUNTER' value will flash.
2. Press 'CLEAR' button again to zero counter.

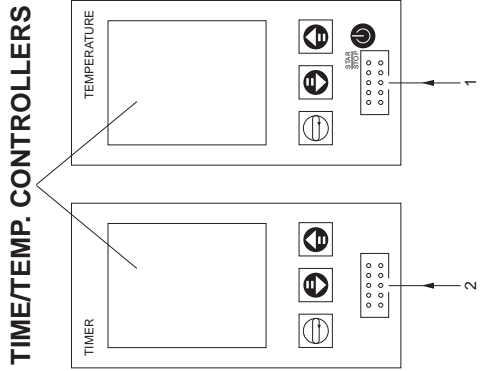
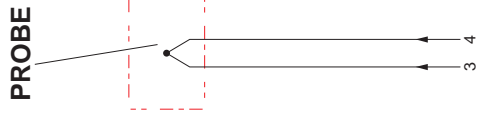
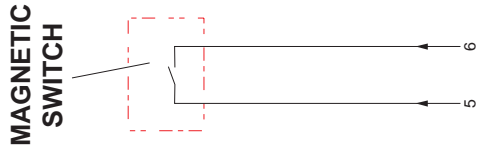
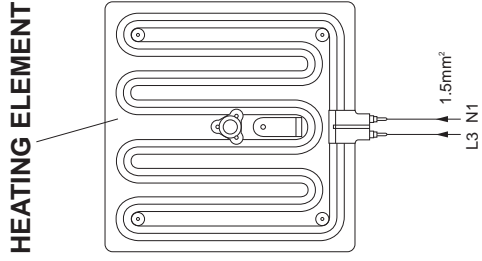
5.5 General Electrical Diagram



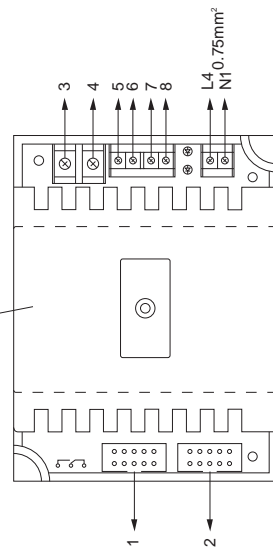
KEY:

- ① TEMPERATURE CONTROL PANEL
- ② TIME CONTROL PANEL

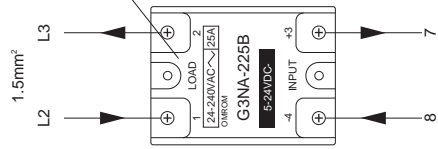
5.6 Detailed Electrical Diagram



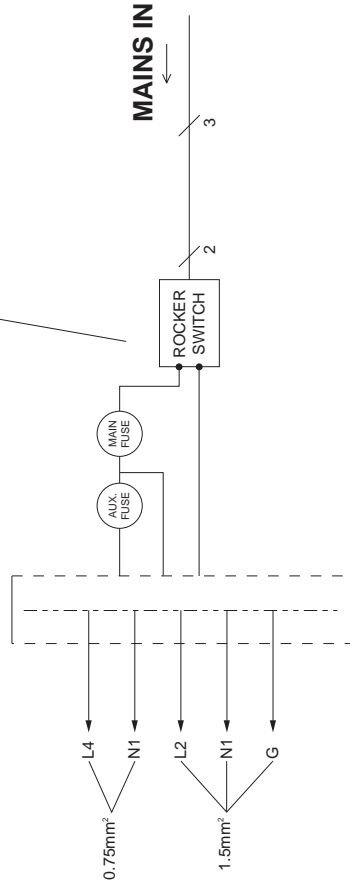
MAIN CONTROL BOARD



SOLID STATE RELAY



CONNECTION LINE OF LEFT MACHINE BOX



6. Design Change

With the policy of constant improvement and/or modification to meet changing conditions, the right is reserved to change the design and/or specifications at any time without prior notification, and therefore specifications may vary and not be in accordance with this manual.

7. Guarantee (Limited Warranty)

A. Adkins & Sons Limited warrants that the press is free from defects in material and workmanship for a period of 12 months from the date of supply to the customer. The machine comes with a one-year warranty on parts and 90 days labour.

This warranty covers all parts to repair the defects, except when damage results from misuse or abuse, accident, alteration or negligence or when a machine has been improperly installed.

If a press covered by warranty should need to be returned to the factory for examination and repair, if on-site component replacement is not possible, A. Adkins & Sons Limited will make every effort to repair the customers press. The warranty will only be effective when A. Adkins & Sons Limited authorises the original purchaser to return the machine to the factory and only when the product upon examination has proven to be defective.

Should in our opinion any part of this press be defective in materials or workmanship, it will be replaced or repaired free of charge, provided that the press has been installed and operated in the correct manner and not subjected to misuse. If A. Adkins & Sons Limited authorise a replacement press, the warranty of the replacement press shall expire on the anniversary date of the original machines invoice to the customer.

In order for this warranty to be effective, no return of machine or parts may be made without prior factory authorisation. (This will exclude any travelling and/or carriage costs which will be charged at our discretion).

This is the sole warranty given by the company; there are no warranties, which extend beyond the description on the face hereof. The seller disclaims any implied warranty of merchantability and/or any implied warranty of fitness for a particular purpose; the buyer agrees that the goods are sold "as is". A. Adkins & Sons Limited does not warrant that the functions of the press will meet the customer's requirements or expectations. The entire risk as to use, quality and performance of the press lies with the customer. (No claim of any kind shall be greater than the sale price of the product or part to which the claim is made).

In no event will A. Adkins & Sons Limited be liable for any injury, loss or damage, including loss of profits, destruction of goods or any special, incidental, consequential or indirect damages arising from the use of the press or accompanying materials. This limitation will apply even if A. Adkins & Sons Limited or its authorised agent had been advised of the possibility of such damage.

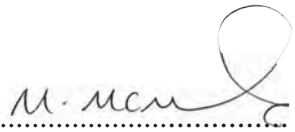
A. ADKINS & SONS LIMITED
DECLARATION OF CONFORMITY



<p>Application of Council Directives:</p> <p>Standards to which Conformity is Declared:</p>	<p>Machinery, Low Voltage. E.M.C.</p> <p><u>BS EN ISO 12100-1:2003+A1:2009</u> - Safety of machinery: Basic Technology. <u>BS EN ISO 12100-2:2003</u> - Safety of machinery: Principles of Design. <u>BS EN 60204-1:2006</u> - Safety of machinery: Electrical Equipment of Machines. <u>BS EN 60529:1992</u> - Degrees of protection provided by enclosures. <u>BS EN ISO 13850:2008</u> - Safety of machinery: Emergency Stops. <u>BS EN ISO 141211:2007</u> - Safety of machinery: Principles for Risk Assessment. <u>BS EN 55011:1998</u> - Class A Group 2 equipment - EMC Emissions. <u>BS EN ISO 61000-6-4:2007</u> - EMC Conducted Emissions. <u>BS EN ISO 61000-6-2:2005</u> - EMC Immunity.</p>
<p>Manufacturer's Name:</p>	<p><u>A. Adkins & Sons Limited</u></p>
<p>Manufacturer's Address:</p>	<p>High Cross, 18 Lancaster Road, Hinckley, Leicester, LE10 0AW, United Kingdom.</p>
<p>Type of Equipment:</p>	<p>Studio Clam Heat Press, Studio Mini Clam Heat Press</p>
<p>Model Number:</p>	<p>.....</p>
<p>Serial Number:</p>	<p>.....</p>
<p>Year of Manufacture:</p>	<p>.....</p>

I, the undersigned, hereby declare that the equipment specified above conforms to the above directives and standards.

Place: Hinckley, United Kingdom

Signature: 

Date:

Full Name: Marie McMahon
 Position: General Manager