

**ADKINS**

# Studio 'EZI'-Swing



## Operators Handbook

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# Preface

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Dear User

**Welcome to the growing group** of Studio 'EZ'-Swing 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.

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# Contents

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

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# 1. Introduction Studio 'EZI'- Swing Press

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**The Studio 'EZI'-Swing Press is a manually operated 'swing away' heat press for transfer printing and material fusing. It is ideal for medium volume production.**

**The work area is:** 38 x 50 cm (15 x 19.5 in).

**The Studio 'EZI'-Swing Press is produced in one version, nominally 230 Volts AC for the European market.**

**The Studio 'EZI'-Swing Press has a heat plate which swings away from the operating position to clear the worktable for loading and unloading. After loading the work piece, and with the correct settings for temperature, pressure and dwell time, the heat plate is swung to the operating position with the handle provided. The cycle is started by lowering the operating handle to the closed position. The micro switch is triggered which starts the timer. When the set time elapses, the buzzer sounds. The handle can then be raised back to the vertical locked position. The heat plate may then be swung to the unloading position.**

## 1.1 Specifications of the Studio 'EZ'-Swing Press

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The Studio 'EZ'-Swing Press is a manually operated 'swing away' heat press for transfer printing and material fusing. It is ideal for medium volume production.

**The work area is:** 38 x 50 cm (15 x 19.5 in)

### Specifications

### European Machines

Power consumption	1800 Watts
Power supply	230 Volts AC
Maximum working temperature	235°C
Display timer range	0 – 999 sec
Machine height open	58 cm
Machine height closed	50 cm
Machine width open	87 cm
Machine width closed	59 cm
Machine depth	70 cm
Weight export packed	52.5 kg
Size export packed	82(L) x 54(W) x 52.5 cm(H)
Net weight	45 kg
Press pad dimensions	38 x 50 cm
Fuse	15 A

## 1.2 Safety Tips

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If required, our customer service team can arrange maintenance service.

- ◆ **The Studio 'EZ'-Swing Press** meets 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 FUSE** - type: ultra-rapid (FF) fuses 1¼" 240 Vac max. 15 Amps.
  - ◆ **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.
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## 2. Installation

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### 2.1 Transport instructions

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**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

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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 **IMPORTANT**

Ensure that the 'fold out' rear leg is deployed and fully locked into position **BEFORE** using the press. (Failure to do so could cause the press to tip over and may cause personal injury)

2.2.4 **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 and the heat plate to swing fully open to the loading position. Ensure that no items vulnerable to heat radiation are too close to the machine.

### 2.3 Electrical requirements

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**The Studio 'EZ'-Swing Press should** be connected to the mains supply, (nominally 230V AC 50/60 hertz) by the mains cable provided and a suitable power plug rated for at least 15 amps.

**As a final check ensure that** the supply rating on the machine specification plate corresponds with your local supply and that the correct plug is fitted.

#### **MAINS LEAD**

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

<b>Green and Yellow:</b>	<b>EARTH</b>
<b>Blue:</b>	<b>NEUTRAL</b>
<b>Brown:</b>	<b>LIVE</b>

## Electrical requirements (cont.)

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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:-

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 '**EZ**'-Swing Press is rated at 1800 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

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**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.**

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## 3. How to Operate the Studio 'EZ'-Swing Press

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### 3.1 Starting with the Studio 'EZ'-Swing Press

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#### 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 'EZ'-Swing 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 5 and operation of Control Units page 11.

#### 3.1.3 When the Studio 'EZ'-Swing Press is switched on the digital timer will not operate until the set temperature is first achieved.

### 3.2 Working with Heat Transfer Materials

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**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 Swing the heat plate closed using the side handle and lower by pulling down the top handle.

#### 3.2.5 When the required time interval has elapsed the alarm will

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## Working with Heat Transfer Materials (cont.)

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sound and the press should be opened by lifting the top handle up until it locks into position and swinging the head open using the side handle.

**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

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**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

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**To shut down the machine**, turn off the on/off switch at the side of the machine. The heat plate should be in the closed position and the top handle should be in the up position.

## 4. Maintenance of the Machine

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### 4.1 Daily Maintenance

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**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

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

### 4.3 Cleaning

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**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!

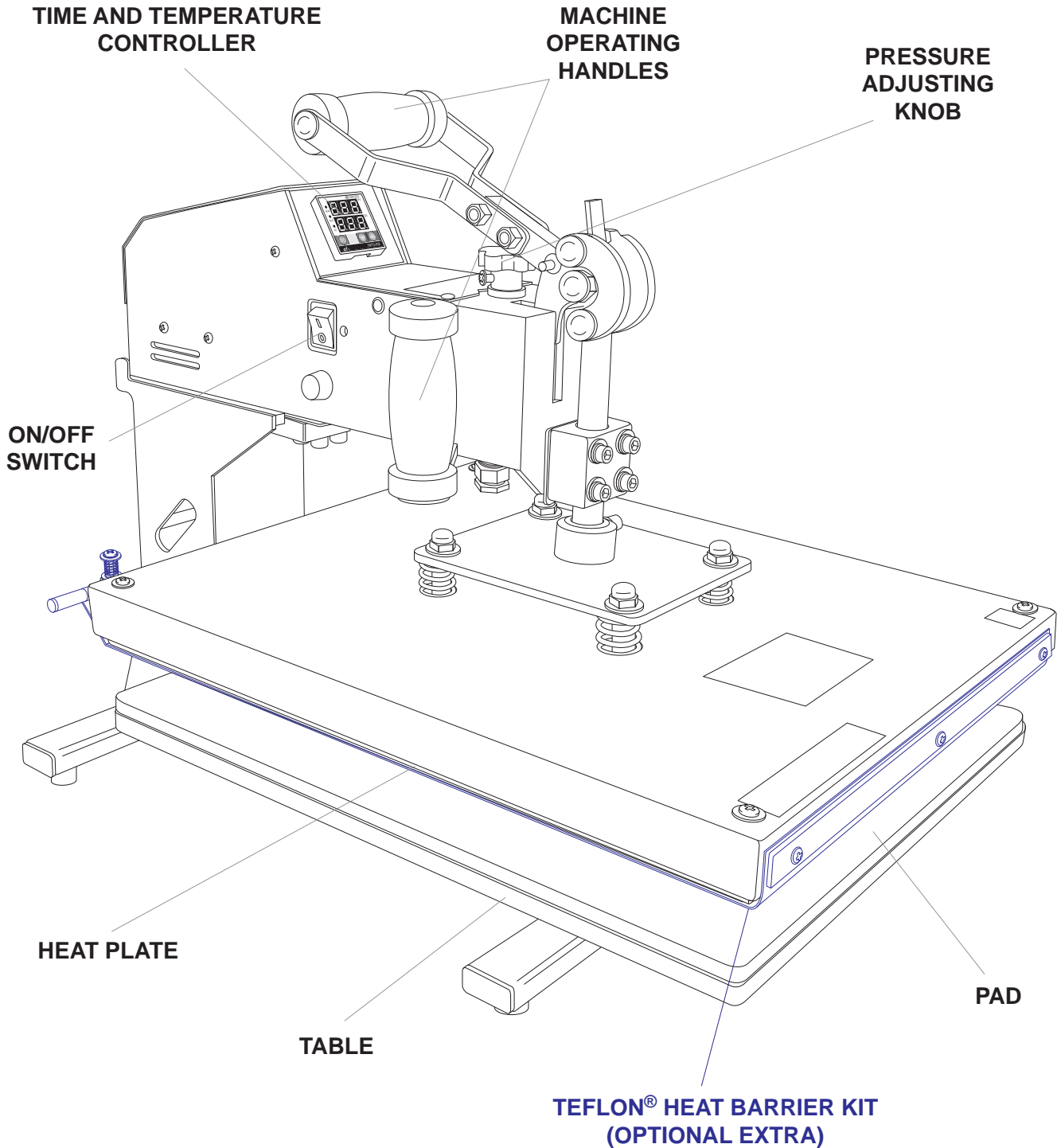
## 5. Machine Drawings and Diagrams

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On the following pages are the schematic diagrams for the Studio 'EZ'-Swing Press.

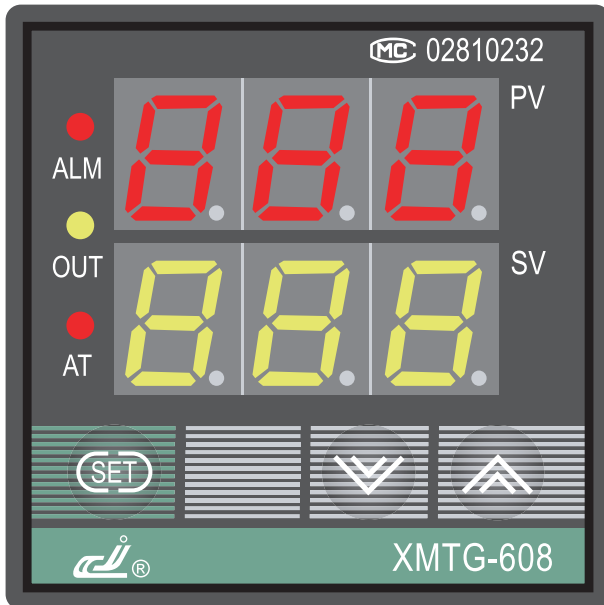
- 5.1 General Layout..... Page 10
- 5.2 Control unit operation..... Page 11
- 5.3 Exploded diagram and parts list..... Page 12
- 5.4 Machine electrical schematic..... Page 13

## 5.1 General Layout



## 5.2 Control Unit Operation (Setting Temperature and Time)

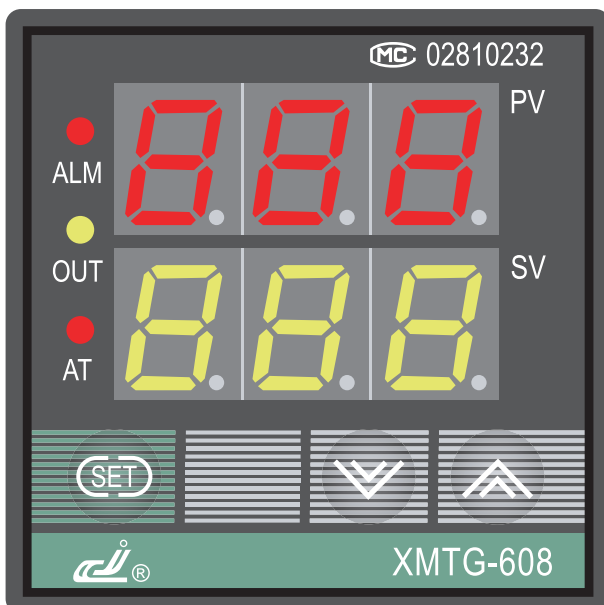
The head must always be in the up position before the controller is set



### Setting Temperature

1. Switch on machine.
2. Press and hold “ $\wedge$ ” until “sp” appears in the top screen and the set temperature in the bottom screen.
3. Using the “ $\wedge$ ” and “ $\vee$ ” buttons select the required temperature.
4. Press the “(SET)” button to hold the new temperature.

**N.B. Set temperature needs to be reached before timer will operate.**



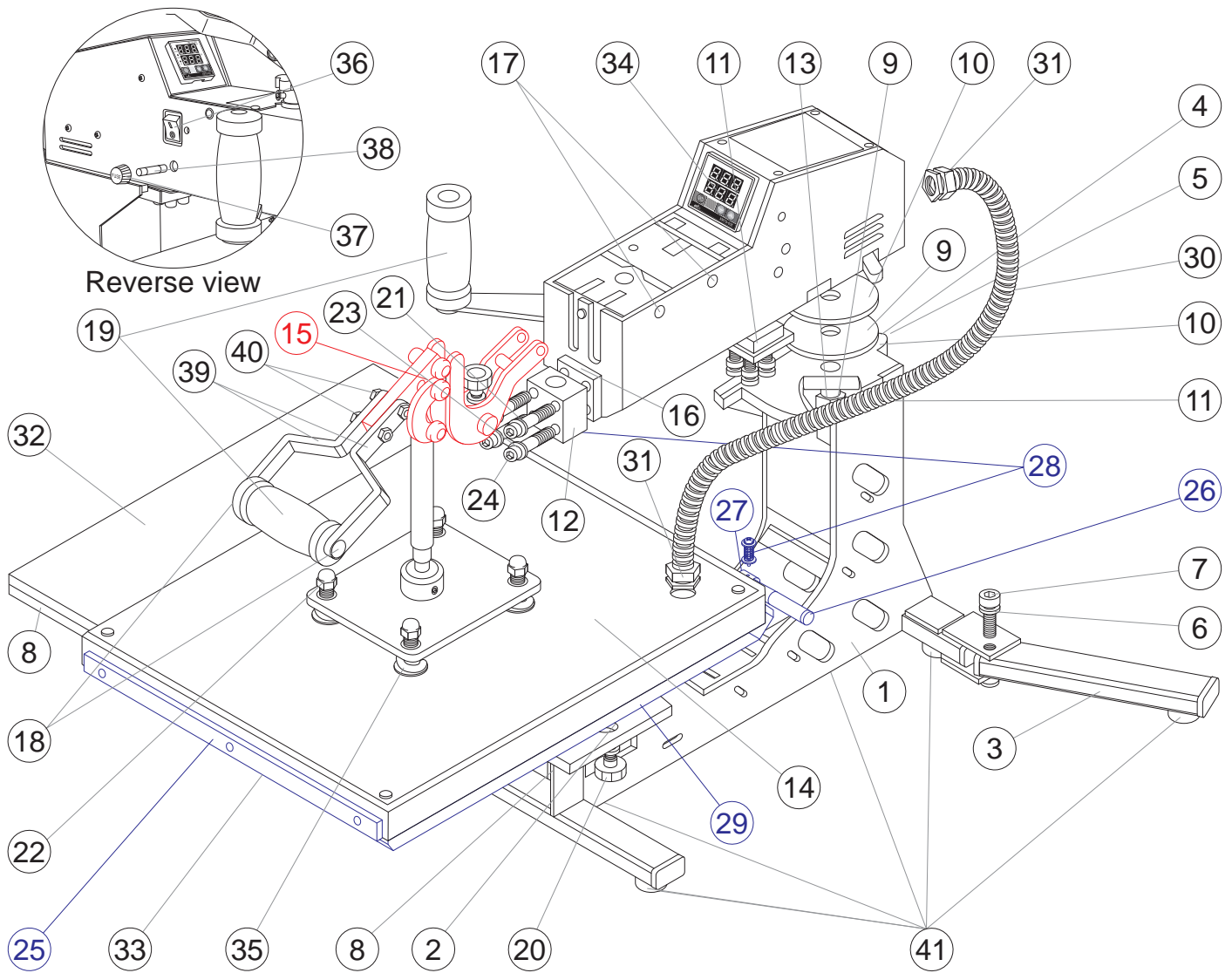
### Setting Time

1. Switch on machine.
2. Press and hold “ $\vee$ ” until “te” appears in the top screen and the set time in the bottom screen.
3. Using the “ $\wedge$ ” and “ $\vee$ ” buttons select the required time.
4. Press the “(SET)” button to hold the new time.



Do not press and hold “(SET)” button for more than 4 seconds

## 5.3 Exploded Diagram and Parts List

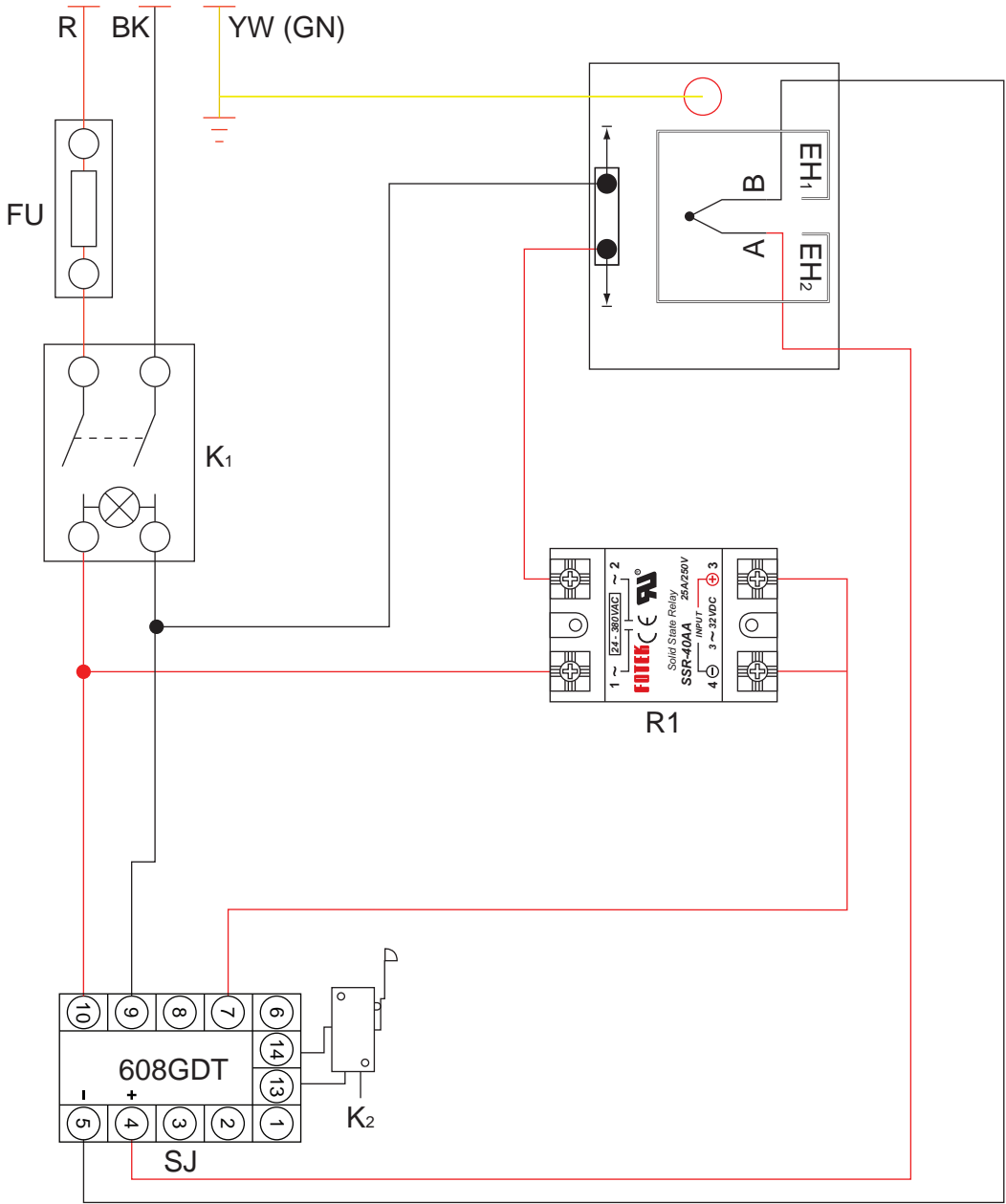


No.	Description	Qty.	Part No.
1	Machine main body	1	EZS001
2	Adapter plate	1	EZS002
3	Swing-out machine foot	1	EZS003
4	M10x14 Grub screw	1	EZS004
5	M6x6 Grub screw	1	EZS005
6	M8 Spacer	1	EZS006
7	M8x48 Socket cup head screw	1	EZS007
8	Table	1	EZS008
9	Swing arm activities iron plate	1	EZS009
10	Swing arm activities plastic plate	1	EZS010
11	Swing arm stop block	1	EZS011
12	Toggle clamp block	1	EZS012
13	Nilok® nut	1	EZS013
14	Insulation cover	1	EZS014
15	Toggle assembly	1	EZS015
16	Toggle clamp mounting plate	1	EZS016
17	Hole plug	2	EZS017
18	Toggle clamp rivet	2	EZS018
19	EVA handle cover	2	EZS019
20	Star handwheel	2	EZS020

21	M8 Spacer	4	EZS021
22	Stop bolt	4	EZS022
23	M8 Spring washer	4	EZS023
24	M8x50 Hexagon socket cup head screw	4	EZS024
25	Teflon® sheet metal attachment	1	EZS025
26	Teflon® sheet adjustment aluminium rod	1	EZS026
27	Teflon® sheet turnbuckle	2	EZS027
28	Teflon® sheet spring	2	EZS028
29	Teflon® sheet	1	EZS347
30	Copex cable sheath	1	EZS029
31	Copex glands	2	EZS030
32	Silicon pad	1	EZS031
33	Heat plate	1	EZS032
34	Controller (XMTG-608)	1	EZS033
35	Pressure springs	4	EZS034
36	Rocker switch	1	EZS035
37	Fuse holder	1	EZS036
38	Fuse 15A	1	EZS037
39	Handle support arm (left and right)	2	EZS038
40	Handle fixing screws	2	EZS039
41	Machine feet	5	EZS040

Optional  
Extra

# 5.4 Machine Electrical Schematic



Key:

- K1: Power switch
- K2: Count down switch
- FU: Fuse (15A/250V)
- EH1, EH2: Heating pipe
- SJ: Thermostat
- R1: Solid state relay



## 6. Design Change

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**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)

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**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><b><u>BS EN ISO 12100-1:2003+A1:2009</u></b> - Safety of machinery: Basic Technology.  <b><u>BS EN ISO 12100-2:2003</u></b> - Safety of machinery: Principles of Design.  <b><u>BS EN 60204-1:2006</u></b> - Safety of machinery: Electrical Equipment of Machines.  <b><u>BS EN 60529:1992</u></b> - Degrees of protection provided by enclosures.  <b><u>BS EN ISO 13850:2008</u></b> - Safety of machinery: Emergency Stops.  <b><u>BS EN ISO 141211:2007</u></b> - Safety of machinery: Principles for Risk Assessment.  <b><u>BS EN 55011:1998</u></b> - Class A Group 2 equipment - EMC Emissions.  <b><u>BS EN ISO 61000-6-4:2007</u></b> - EMC Conducted Emissions.  <b><u>BS EN ISO 61000-6-2:2005</u></b> - EMC Immunity.</p>
<p>Manufacturer's Name:</p>	<p><b><u>A. Adkins &amp; Sons Limited</u></b></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 'EZ'-Swing 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