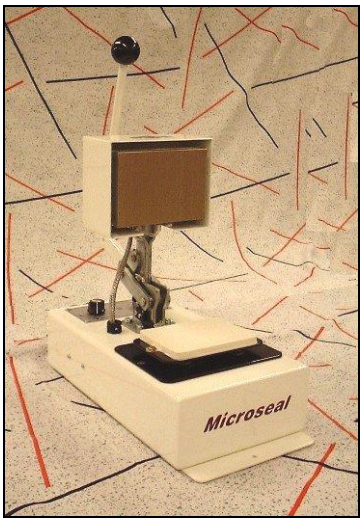
Microseal



Operators Manual

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Unpacking & Set-up

Remove the heat press from the packing case and retain all the packing. Mount the press on a solid surface ensuring it is located near a mains outlet. The press will have a 13amp plug fitted as standard (fused to 5amp {non-export machines}), and should be connected to: -

240 Volt AC, single-phase mains supply (standard wall socket)

IMPORTANT

THE WIRING IN THIS MAINS LEAD
IS COLOURED IN ACCORDANCE
WITH THE FOLLOWING CODE: -

GREEN & YELLOW	-	**E**ARTH
BLUE	-	**N**EUTRAL
BROWN	-	**L**IVE

THIS EQUIPMENT MUST BE EARTHED

Basic Operation.

To switch the press on turn the TIMER knob located on the front control panel clockwise and set the required duration of dwell time in seconds. Turning the knob will actuate the red light on the front panel.
When the desired temperature has been reached (determined by the setting of the other control knob) the red led will change to green.
To increase the temperature of the press turn the temp control knob clockwise and anti-clockwise to decrease temperature.

To Operate the Hand Press

1) Ensure that the temperature & Timer knobs are set correctly.
2) Place the part of the garment/article to be marked onto the silicone pressure pad.
3) Pull the handle forward into the locked position, ensuring the garment is firmly clamped between the heat plate and pressure pad. (Make sure that your hands are away from the heated platen when using the heat press).
4) After completion of the above the buzzer will sound when the pre-set time has elapsed, the handle should then be lifted back to it full extent.

Pressure Pad Assembly

The silicone pressure pad and assembly should maintained and kept in good condition at all times.
A worn silicone pressure pad will affect the quality of transfer marking / fusing and should be replaced when showing signs of wear. *(See parts list on page 7).*
After a long duration of time it may be found that there is a loss of pressure through the pressure pad assembly, this can be rectified by replacing the pressure springs located under the pressure plate.

Never allow the heat plate to rest on the silicone pressure pad when the press is not in use.

PTFE Heat Plate Cover

A PTFE cover is fitted to the heat plate, which allows the surface to be wiped clean should it become marked.
New PTFE covers may be fitted to the heat plate when WARM (not hot) and has been cleaned to remove residue of the old PTFE.

Design Change

With a policy of constant improvement and/or modifications to meet changing conditions, the right is reserved to change the design and/or specifications at any time without prior notification, therefore no guarantee can be given as to the accuracy of the information contained in this instruction book.

Guarantee

This press is guaranteed to be free from defects in materials and workmanship ** for a period of 12 months from the proven date of delivery or installation.
Should, in our opinion, any part of this press be defective in materials or workmanship it will be replaced or repaired free of charge *(excluding any travelling costs / carriage costs which will be charged at our discretion)* provided that the press has been installed and operated in the correct manner and not subjected to misuse.
A charge will be made for any costs incurred if a reported fault on the press is found to be due to incorrect installation, operation and/or incorrect materials being used, as it is the responsibility of the press user to ensure the suitability of the materials operating through the press.
** *Exclusions - Pressure Pad GSW-16-S, PTFE GSW-18*

Application details for Wader Products

Your press should have the following settings: -

Temperature: - 205'C
Pressure: - 20 PSI
Time Dwell: - 5-8 seconds

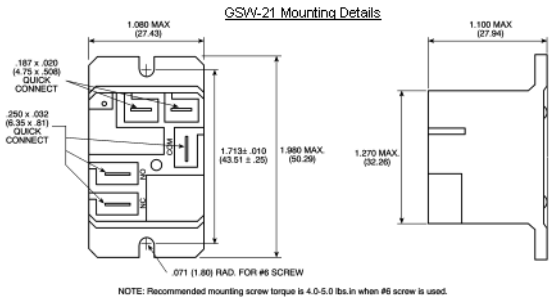
The above is only a basic guideline you may need to change settings for special materials.

We recommend that THERMAL materials / clothing are not used on this heat press.

Contact Wader Sales for Special Material Settings.

GSW-20 Control Unit (*Fig.1*)

Control Relay GSW-21 *(Fig. 3)*



No indicator light (refer to fig.2 page 6)

Check the supply to press and condition of fuses (internal & plug)
Is the press switched on?

Heat plate fails to get warm (refer to fig.2 page 6)

Internal connectors.
Does the element have continuity? *Specifications for this test can be supplied upon request.*
Does the probe have resistance?
Is the relay switching over?
Faulty control unit?
If the red light has been on for a period of time but the heat plate is cold check the element.

RTD Probe.

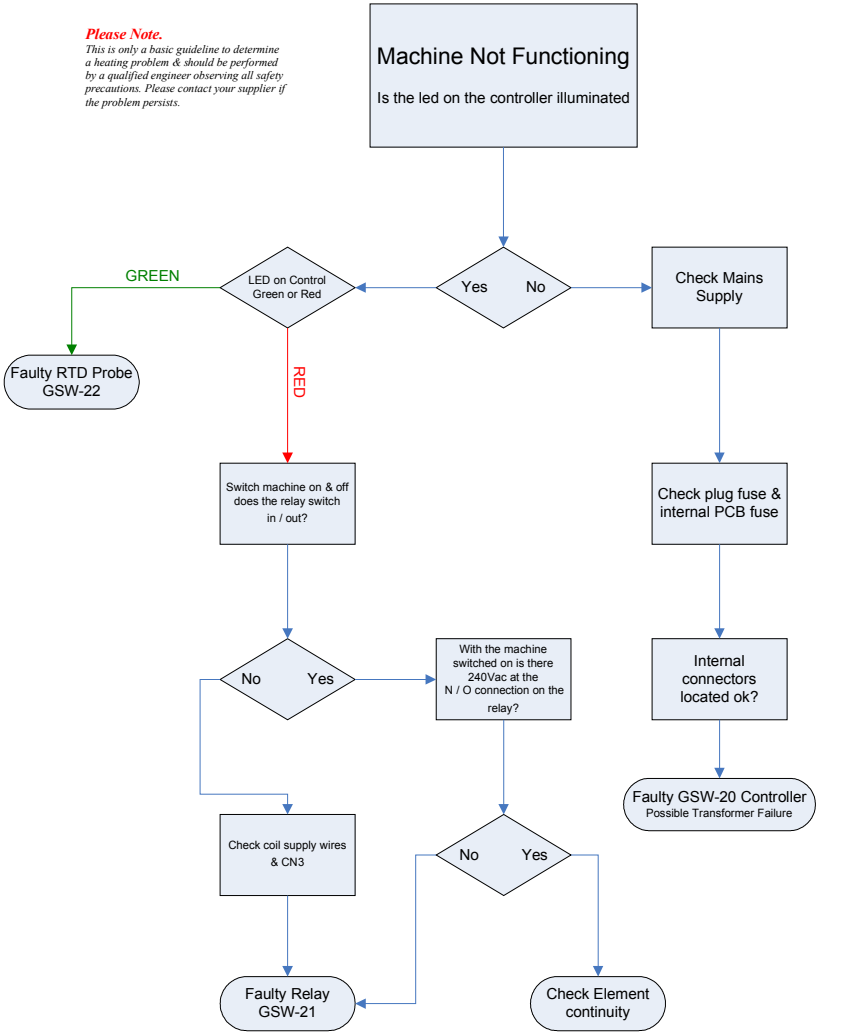
To test the probe condition, remove completely from press and measure the resistance at room temperature using a multimeter.
Then warm the probe if the resistance changes the probe is working correctly.
Specifications for this test can be supplied upon request.

Sealing Pressure Low.

Badly worn pad
Over compressed springs
Toggle links worn

Timer Buzzer

Toggle arm not making contact with micro-switch *See Page 10*
Faulty micro-switch, check switching with meter.
Buzzer faulty check DC power supply to buzzer 9-12VDC



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Engineering Dept.

Safety First!

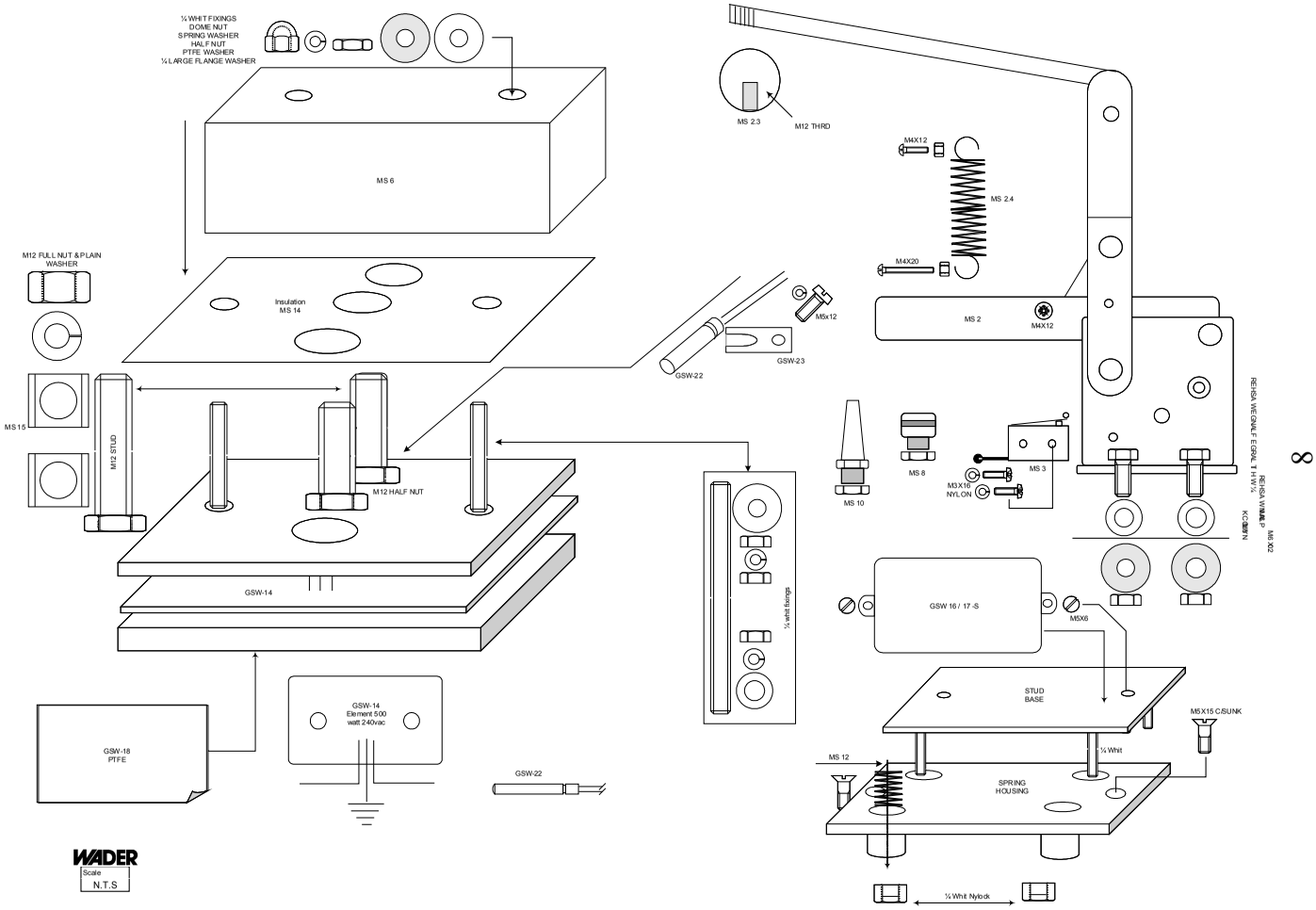
When working on the heat press remember to always DISCONNECT the mains supply before removing covers or guards.

Never allow your hands to be in a position that they may be trapped by the heat plate when you bring the handle down.

Parts List - Wader Microseal

PART No.	PART NAME
MS 1	BODY FABRICATION
MS 2	TOGGLE CLAMP ASSEMBLY
MS 2.3	BALL KNOB
MS 2.4	TOGGLE SPRING
MS 3	MICRO-SWITCH
MS 5	HEAT PLATE (UPPER/LOWER)
MS 5.1	HEAT PLATE FIXINGS
MS 6	PLATEN COVER
MS 7	BASE PLATE COVER
MS 8	CABLE BUSH (HEAT PLATE WIRES)
MS 9	MAINS CABLE
MS 10	CABLE GLAND MAINS
MS 11	PACKAGING
MS 12	PRESSURE SPRING
MS 14	INSULATION (Heat Plate)
MS 15	CHANNEL WASHER
GSW-14	ELEMENT METAL CLAD
GSW-16-S	SILICONE PRESSURE PAD
GSW-17	PRESSURE PAD PLATE
GSW-18	PTFE (pack Of 5)
GSW-20-MS	CONTROL UNIT *(fig.1,page 4)*
GSW-21	CONTROL RELAY *(fig.3, page 4)*
GSW-22	RTD PROBE
GSW-25	INTERNAL CONNECTORS
GSW-30	CONTROL KNOBS
GSW-31	CONTROL FACIA

When ordering spare parts always quote: **Machine name, Serial number** and Colour of machine.


¼ WHIT FIXINGS
DOME NUT
SPRING WASHER
HALF NUT
PTFE WASHER
¼ LARGE FLANGE WASHER
MS 6
M12 FULL NUT & PLAIN WASHER
Insulation MS 14
MS 15
M12 STUD
M12 HALF NUT
GSW-14
GSW-18 PTFE
GSW-14 Element 500 watt 240vac
GSW-22
M5x12
GSW-23
GSW-22
MS 2.3
M12 THRD
M4X12
MS 2.4
M4X20
MS 2
MX12
MS 10
MS 8
MS 3
M3X10 NYLON
½ whit fixings
GSW 16 / 17 -S
M5X6
STUD BASE
M5X15 C/SUNK
½ Whit
MS 12
SPRING HOUSING
½ Whit Nylock
WADER
Scale
N.T.S

8

Specifications

Supply Voltage 230 / 240 Volt AC.
Approx. current consumed 2.1 amps
500 Watt @ 240Volt AC heating element.
Stainless steel armour braided exposed wires.
Mica plate heating element including earth.
Probe for temperature detection is a RTD (resistance temperature detection) and is constructed of a purpose built sheath and internal resistance element surrounded by mineral type insulation.
Single PCB controller for temperature and timer.
Printed circuit board built in house includes a temperature circuit compatible with the RTD probe and a timer circuit actuated via a micro switch.

Maintenance
Lubricate toggle linkage at regular intervals with light machine oil, this will ensure a long life of the toggle clamp and also a smooth operation.
Keep top PTFE cover in good condition.
Ensure that the silicone pad is in good condition.

Note
This machine is designed for application of only heat-seal transfers, tape, badges and patches.
Please ensure the manufacturers operating instructions are adhered to.
We recommend a qualified engineer inspect the machine at six Monthly intervals

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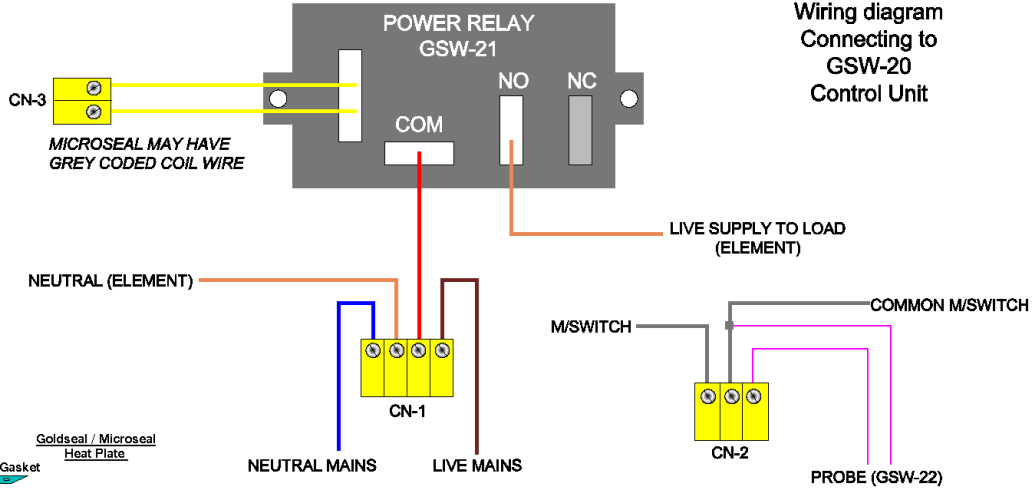
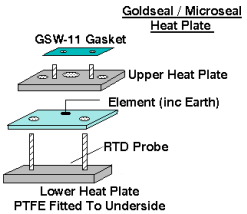
Goldseal & Microseal Wiring diagram Connecting to GSW-20 Control Unit





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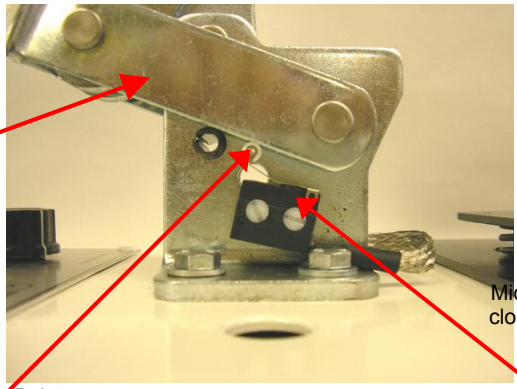
MS-3 Microswitch Timer Operation

Timer Off

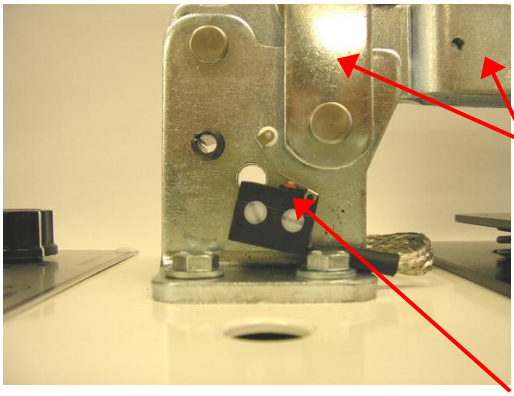


Toggle Clamp Fully Open & at rest on Dowel

Microswitch Plunger is closed **Timer function disabled**

Switch Contact Point.
If there is no contact buzzer may sound even with the toggle in the open position, adjust switch arm as necessary.

Timer On



Toggle Clamp in Heat Sealing Position

Plunger Released Timer Buzzer Activated

Machine Type	-	Microseal
Serial Number	-	MS-
Purchase Date	-	
Supplier	-	