

~ FABRICATION ~



ELECTRONICS

OPERATING INSTRUCTIONS

INTRODUCING



ELECTRONICS

the



FREQUENCY WELDER



Frequency Welding Machine

Access Level 2 – (see Tech Workshop Induction Guide on Access Levels)

Welding thin PVC together

PPE Basic

- Suitable work coat (provided)
- Safety Glasses/Faceshield, rated to BS/EN166 (provided)
- Stout footwear
- Keep rings, ties and dangling jewellery tucked away (or removed)

What to do before use

- **INFORM** a member of staff you wish to use the machine
- **DO NOT** use the machine if you:
 - Have a heart condition or pacemaker
 - Are pregnant
- **CHECK** machine isolator is in the OFF position
- Know the **LOCATION** of **START** and **STOP** switches or buttons, as well as **EMERGENCY STOPS** – including those on the machine
- Visual check of the machine for signs of **DAMAGE** or problems and report to a member of the technical team
- Check **GUARDS** are in good condition and in proper position before operating the machine
- **AREA AROUND** the machine is clean and tidy and free of obstructions?
- **ADEQUATE** overhead/natural/machine lighting?
- A brief **RUNNING CHECK** of the welder; watching & listening for reportable faults – is advised before use

How to use this Frequency Welding Machine

- Ensure the welding machine is switched OFF at the isolator/socket
- SELECT THE WELDING PLATE that you need for the material gauge (thickness)
- Unscrew the mounting bolts and REPLACE the welding plate with your selection, making sure that the machine is switched OFF before adjusting anything
- Use the LARGE top adjustment bolt/screw to re-adjust the welder HEIGHT so that there is enough pressure on the welding shoe.
- By DEPRESSING the foot pedal and turning the knob to achieve the DESIRED pressure
- ENSURE the machine safety switch is active BEFORE using the machine
- Switch ON the machine by flipping the switch, located UNDER the right side of the working BED
- Perform a TEST weld before using the machine on project material; a small section of the material you are using approximately 50mm by 50mm is sufficient
- Select a TIME SETTING and POWER SETTING, starting on the LOW RANGE first rather than a higher setting. This is ROUGHLY 1.5 SECONDS and with a POWER OUTPUT of 6 ON THE OUTER DIAL and 30 ON THE INNER DIAL
- Run the TEST
- ENSURE, when you depress the foot pedal for a weld, that are NOT touching the welding plate as this will cause a burn injury
- Once the test has completed, CHECK the strength of the weld seam by PULLING AT THE SEAM
- FOLLOWING the test, INCREASE or DECREASE the Time & Power settings to achieve a strong weld which should be close to the TEAR STRENGTH of the original material
- When FINISHED, return the machine to SAFE MODE, TURN OFF the bed switch and tidy up, if necessary

Date

I verify that I have read and understood the information detailed within this document

Name

Signature