

LATEST ISSUE

Track Welding with Fine-Line Technology



CIRKIT 450

The Complete Circuit Welding Solution

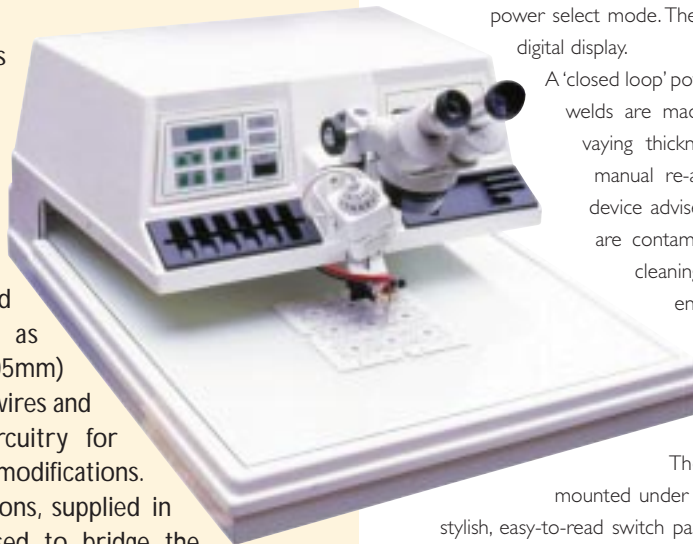
CIRKIT 450

Placing precision circuit repairs at your fingertips

MAIN FEATURES

- ✓ **REPAIRS TRACKS >0.002" (0.05mm)**
- ✓ **Easy to use 'Tactile' controls**
- ✓ **Fully Adjustable Low Pressure Weld Head**
- ✓ **Auto 'Electrode Contamination' Indication**
- ✓ **Low Voltage Safety Circuitry**
- ✓ **99 Prog. Memory with Manual Override**
- ✓ **Repairs Bare and Assembled PCB's**
- ✓ **Large Work-Piece Capacity**
- ✓ **Adjustable Worklamp Output**
- ✓ **Low Maintenance**

The "450" employs constant current, microprocessor power circuitry, making it capable of repairing open circuit (O/C) tracks on bare and assembled PCB's as small as 0.002" (0.05mm) wide, bond jumper wires and components to circuitry for permanent circuit modifications. Copper repair ribbons, supplied in reel format, are used to bridge the O/C. Welding to the base metal ensures that such repairs/modifications will not later become unattached if subjected to heat - so often the case with soldered joints. Wave soldering, hot air levelling, vapour phase fusing, soldering irons etc. have no affect on the bonded joint. The process is fast, leaves no residue (no flux used) and is very cost effective.



CONSTRUCTION

Cir-Kit Weld 450's removable glass table top, supported by a heavy duty box section frame, allows 'back lighting' of the damaged track during repair - a very useful feature when repairing 'hairline' cracks in tin/lead plated tracks. Two interchangeable molybdenum electrodes (variable widths) are mounted on a fully adjustable spring loaded weld head carriage, that glides on a high precision steel slideway. The complete weld head assembly is lowered onto the workpiece and repair ribbon by a foot actuator. Further pressure on the actuator automatically fires the power circuitry and the weld is made.

Cir-Kit Weld 450's 'Tactile' controls are used to instantly select time/amp power setting from its 99 channel programmable memory. Alternatively time and current settings can be set by the operator using the manual power select mode. The power level selected is shown on a digital display.

A 'closed loop' power control system ensures consistent welds are made, even on lightly contaminated or varying thickness surfaces, without the need for manual re-adjustments, whilst a unique sensing device advises the operator when the electrodes are contaminated or the track surface requires cleaning. All control circuitry is low voltage ensuring operator safety at all times.

Weld head pressure, PCB thickness, work lamp intensity and power settings are quickly adjustable using the easily accessible controls.

The power pack assembly is safely mounted under the robust, glass-fibre top cover with stylish, easy-to-read switch panel on the front fascia. Repair ribbons and tools are conveniently positioned adjacent to the controls. Both powerful Bi-optics and high intensity worklamp are firmly mounted on fully adjustable arms, ensuring operator comfort for maximum efficiency.

Specification

Input Voltage	240/220-120/110V AC (Selectable)
Input Current	1.5 amps (at 240/220V) 3.0 amps (at 120/110V)
Input frequency	50/60 Hz
Output current	500 amps MAX (Selectable)
Weld time	0.2 - 29ms (Selectable)
Weight	58Kg (125lbs)
Depth	786mm (31")
Width	656mm (26")
Height (including Optics)	500mm (20")
Maximum Workpiece size	762mm x 762mm (30" x 30")
Weld pressure	0.80 - 1.5Kgf (1.75 - 3.5lbs)
Magnification Fixed Zoom	7.5x/15x (2 POSITION) 10x/40x Other mags. on request

The manufacturer reserves the right to alter specification without notice.
(All dimensions and weights are approximate)

SEETRAX
CAE

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