



# A.P.E.

## Military Services Brochure

## Portable Rework Systems

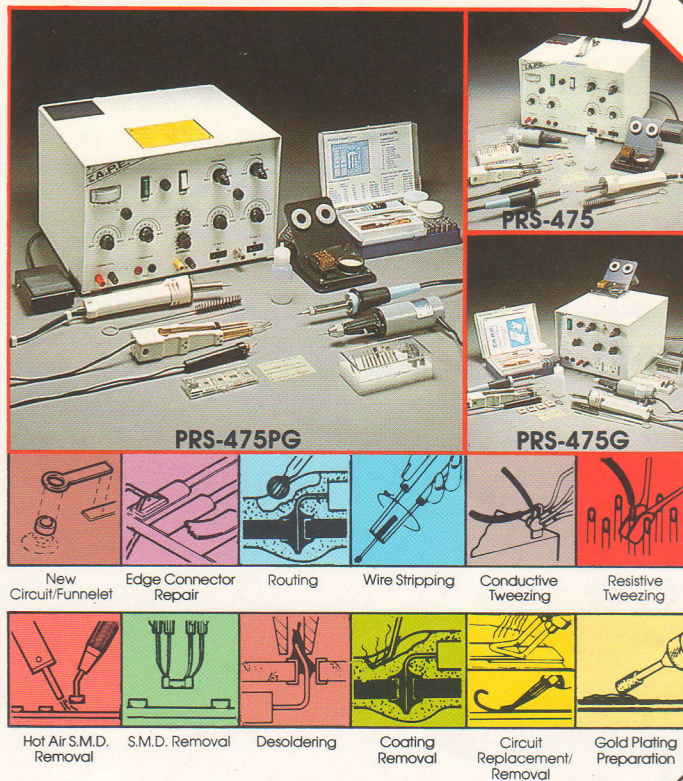
### Multi-function Circuitboard Repair & Rework Station

The PRS-475 series are multi-function repair/rework stations which enable the user to effect repairs or modifications to existing PCB assemblies. Models PRS-475 supply the operator with the necessary tools and accessories to:

- Solder/desolder delicate components to/from the PCB
- Prepare PCB edge connectors for plating
- Repair damaged circuits and plated thru holes using the SRS-050 track repair kit provided
- Grind, cut, and deburr runs and coatings
- Remove SMDs.
- Replace SMDs.

The integral footswitch operates all functions and permits the operator to concentrate on the work in hand. Models PRS-475 and 475PG feature the unique EX-1000 desoldering hand-piece, a rugged centrifugal vacuum pump with five year warranty, powerful independent variable speed high torque drilling motor, all controls on front panel for quick setting of vacuum, pressure, (pressure can also be used for Surface Mounted Devices), temperature and speed. Ø Voltage C-MOS safe, (Model 475G has above except diaphragm pump, Model 475PG all of above plus micro-processor controlled plating).

Required tips for SMD removal/replacement optional.  
Vacuum Handling Tool and tips optional.

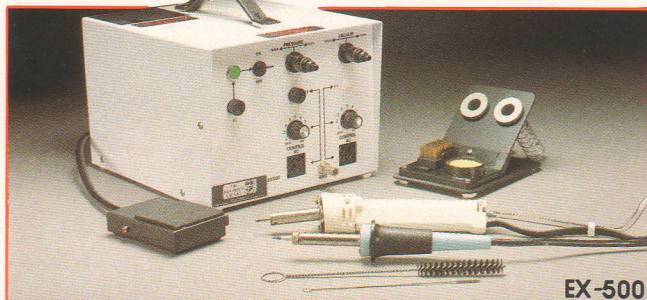


## Desoldering

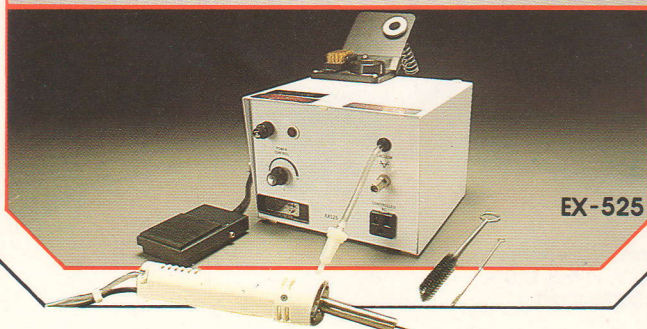
Both models' vacuum is actuated by a foot pedal leaving the operator's hands free to do the actual work. Both C-MOS safe.

The model EX-500 is self-contained and its heavy duty rotary pump carries a five (5) year warranty making it the perfect choice for heavy duty production applications. Model EX-500 also supplies controlled air pressure, vacuum, and variable temperature desoldering and soldering.

Model EX-525 is also self-contained and its diaphragm pump carries a two (2) year warranty. Model EX-525 motor pump is vibration isolated to ensure quiet operation, and its integral ON/OFF/temperature control simplifies operation.



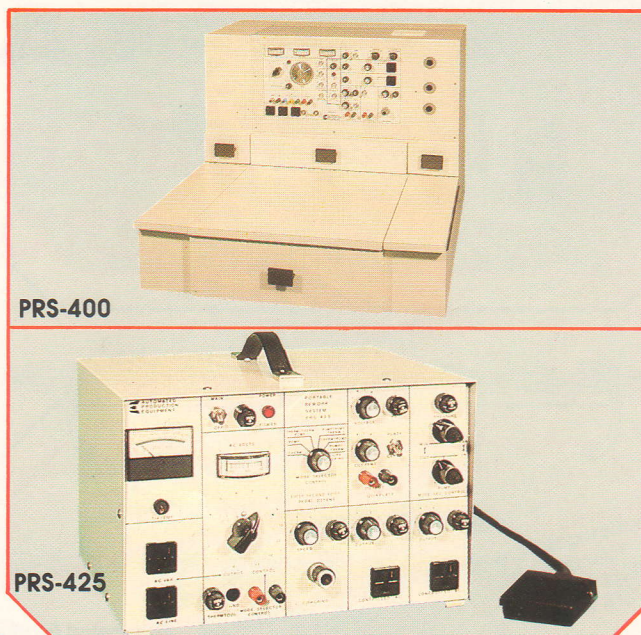
EX-500



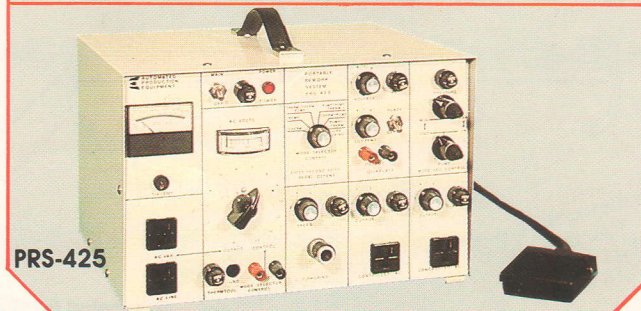
EX-525

## Portable Repair & Rework Stations

Models PRS 425, 400 and 375 are the top-of-the-line APE Portable Repair and Rework Stations. PRS 425 features program sequencing and an analog temperature indicator. Model PRS 400 features a precision timer circuit for all controlled functions as well as a 'high current (amps) variable AC outlet for all heavy duty applications. Model PRS 375 is identical to the PRS 400 but is mounted on a roll around tool chest for complete portability.



PRS-400



PRS-425

## Model SRS-050

### Printed Circuit Track Repair Kits

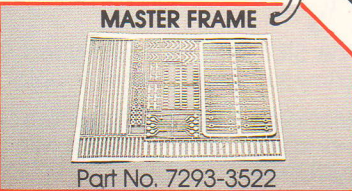
Salvage Just One PC Assembly "On The Spot In Time" and a Track Repair Kit is Paid For!

| Components in No. SRS-050 Track Repair Kits:                                                                                                                                               | Stan. | Ser/Tech | Basic |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-------|
| Master Frames with tracks, fingers, pads, elbows, flatpack pads                                                                                                                            | ×     | ×        |       |
| Assortment of Eyelets and Funnelets                                                                                                                                                        | ×     | ×        | ×     |
| 1 Set of Eyelet Setting Tools                                                                                                                                                              | ×     | ×        | ×     |
| Red Abrasive Stick                                                                                                                                                                         | ×     |          |       |
| 1 Consumable Replacement Kit No. 2580-1394: 3 of each of red bullets, 1 acid brush, 1 each of red abrasive sticks, 1 set epoxy, 1 mixing pad, 4 spatulas, 1 Flux bottle, 1 cleaner bottle. | ×     |          |       |
| 1 Track Tool Set No. 2590-1524: tweezer (fine straight), tweezer (curved), clamp, ball mills ( $\frac{1}{32}$ ", $\frac{3}{64}$ ", $\frac{1}{16}$ "), and knife set.                       | ×     |          |       |
| Frames A-Z/straight run frame                                                                                                                                                              |       |          | ×     |

Master Frames, Pad Track Frames, Track Selector Frames, Edge Connector Frames, Eyelets/Funnelets, Consumable Replacement Kit and Track Tool Set, can be purchased separately.



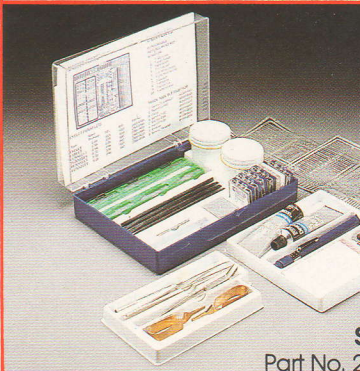
**SER/TEC**  
Part No. 2570-0020



**MASTER FRAME**  
Part No. 7293-3522



**BASIC**  
Part No. 2570-0010



**STANDARD**  
Part No. 2570-0025



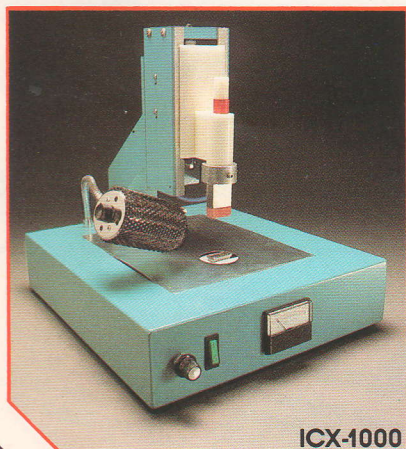
**BEFORE:**  
Pad and Eyelet are missing



**AFTER:** Repaired with SRS-050 Kit, the Pad and Eyelet have been neatly replaced.

## Integrated Circuit Extractor

APE MODEL ICX-1000 is designed to quickly (average time 15 seconds) remove IC's and other dual in line packages from PCB's and clear in the thru holes in one easy operation. MODEL ICX-1000 is virtually automatic! The operator secures the IC to be removed in the specially designed gripper fingers and presses the front panel mounted air switch. MODEL ICX-1000 does the rest. The movable head and PCB are pneumatically lowered onto the heating platform, as soon as the solder is molten the IC is automatically extracted. The operator then releases the button causing the movable head to be returned to its original position, while simultaneously clearing all solder from the thru holes. MODEL ICX-1000 operates on 115V AC (export voltage is available) and 30 psig (2 Bar) air pressure. MODEL ICX-1000 is manufactured by APE, so you know service is never a problem - world wide!



ICX-1000

### SPECIFICATIONS

- Width  
14 in. (35.6 cm)
- Depth  
12 in. (30.5 cm)
- 0 Voltage  
C-MOS safe
- Height -  
13 in. (33.0 cm)
- Weight  
10 lbs. (4.5 kg)

## Instant Heat Soldering Gun

Light weight, new SG-140 Soldering Gun is especially suited for field service work. Model SG-140 features rapid heat up (5 seconds) to solder melt temperature and a built-in light to illuminate the work area. A dual position fingertip tripper control allows the selection of either 100 or 140 watts of power. Double insulated for safety. Model SG-140 operates from any standard 110-120V AC outlet.



SG-140

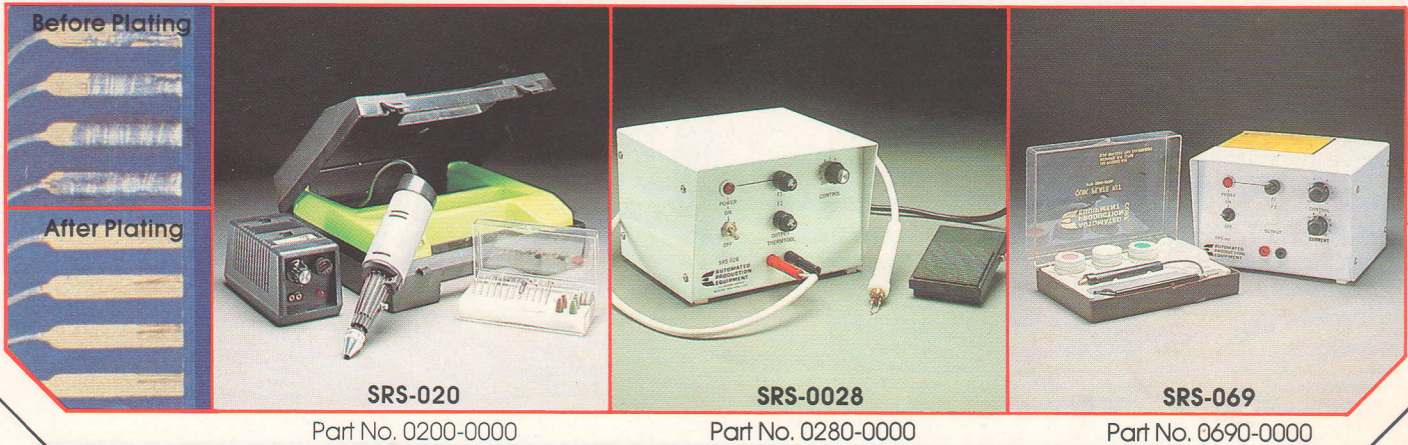
## Specialized Repair Systems

The SRS series of Specialized Repair Systems is designed to allow the user to tailor their repair needs to specific applications.

Model SRS-020 drilling system features a variable high speed hand held drill and comes with an assortment of drills, burs and abrasives.

Model SRS-028 thermtool systems variable low voltage power source will operate the included thermtool and heat tweezer. The thermtool handpiece accepts either thermal parting or reflow soldering tips. The heat tweezer handpiece accepts resistive, conductive or wire stripper tips.

Model SRS-069 System is a compact yet highly versatile electroplating station. It makes accurate plating operations fast, economical, clean and simple using a micro-processor circuit to compensate for voltage and current variations as well as metal depletion of solutions. This unique unit will plate  $\pm 3\%$  accuracy. Both cleaning and plating are accomplished with easy-to-handle brush-tipped probes with grounding probe. It can also be used for PC assemblies and with various sized tanks. QUICK PLATE System uses a variety of materials including lead, tin, copper, nickel and gold. It performs all original, repair and replacement platings. (Meets M.I.L. Specifications)



## Micro-Clean

### Ultrasonic Cleaner

- Durable all stainless steel construction • Generator & tank contained in one unit • Lighted on-off switch for simple operation • Self-tuned, optimum cleaning power • All solid state, no moving parts • Optional timer with hold available. Los Angeles City Test Lab Approved.

| MODEL     | MICRO CLEAN 150 |    |    | MICRO CLEAN 200 |    |     | MICRO CLEAN 800 |    |     |
|-----------|-----------------|----|----|-----------------|----|-----|-----------------|----|-----|
| CAPACITY  | 2 Quarts        |    |    | 3½ Quarts       |    |     | 11 Quarts       |    |     |
| TANK SIZE | W               | D  | L  | W               | D  | L   | W               | D  | L   |
|           | 4¾              | 4  | 5¼ | 4½              | 4  | 8¾  | 8½              | 6  | 11  |
| O/A SIZE  | 6¾              | 6¾ | 6¾ | 6¾              | 6¾ | 10¼ | 10¾             | 8½ | 12½ |
| POWER     | 60W             |    |    | 100W            |    |     | 200W            |    |     |

Standard units are 120 VAC, 60 cycles with 3 wire Nema-type plug. \*Model MC-800 Features ¼" Drain Outlet.

\*Trays baskets covers sold separately.

| MODEL  | 150       | 200       | 800       |
|--------|-----------|-----------|-----------|
| UNIT   | 4000-0150 | 4000-0200 | 4000-0800 |
| BASKET | 4000-0151 | 4000-0201 | 4000-0801 |
| COVER  | 4000-0152 | 4000-0202 | 4000-0802 |



## Desolder Pump

DP-1 Desolder Pump offers full industrial performance and features at an "economy" price. The DP-1 features all metal construction with precision components for maximum reliability and ease of operation. Suction is precisely regulated for efficient solder removal without damage to delicate circuitry.

Self-cleaning on each stroke, the DP-1 is quickly disassembled without special tools for maintenance or repairs. DP-1 unit complete with TEFLON™ 5000-0120, TEFLON™ tip 5000-0119, Antistatic tip 5000-0121.



DP-1



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