



Office Equipment

Last Revision: Oct, 17, 2013

DRAFT

Required Test Equipment – Off. Machine Techs

1. AC Leakage Tester - 500uA capability
2. Anode Cap Remover - 500uA capability
3. Anti static wristbands with cords and clips/plugs.
4. Test plug for the above anti static wristbands.
5. Anti-static bags (for storage of components)
6. Anti-Static Mat &/or Bench Floor Pad - W/Wrist or leg strap
7. Audio Oscillator - Range 0-100kHz, 0-3v Output, Var Attn. Distortion 0.33%, 0.002% THD+N
8. Lens Cleaning Kit, Cleaning Solvents - glass cleaner, alcohol, plastic cleaner, canned air
9. Conventional hand tools
 - 9.1 Hex Nut Drivers and wrenches – std. and metric assortment, common hand tools
 - 9.2 Screwdrivers appropriate for equipment serviced (Japanese Industrial Standards-JIS)
 - 9.3 Needle nose pliers
10. DC Power Supply - 0-50V DC 2AMP
11. DeSolder/Solder station (ESD) - Temp Controlled grounded tip, temp range (400F-800F) and hot air type. (*Note: Not all manufacturers permit servicers to solder.*)
12. Digital Volt/Ohm/mA Meter w/Diode and Cap Checker – 1 V DC to 1000 V DC range; sensitivity: 1 mV to .5V
13. Oscilloscope – bandwidth: DC to 100 MHz
14. Fax Machine - CCITT Groups 2.3
15. High Voltage Probe
16. IC Extraction tool - For extracting ICs from sockets
17. Isolation Transformer - Volt amp rating must equal amperage rating of the highest product worked on, Volts X Amps = Voltamps. Used when repairing solid-state controls.
18. Laser Power Meter - 0-3 milliwatts, $\pm 5\%$ full scale
19. Thermal interface (compound or pad) for transferring heat from the processor to its heat sink. (Use thermal interface designated for the specific processor).
20. VARIAC - Isolation type 0-140V AC; min. 7.5 amps with line monitor
21. Watt Meter, RF, 0-10 Watts
22. Logic Probe
23. Substitute Parts to be used when troubleshooting
24. Laptop
25. Boot disks of various operating systems
26. Test Discs and Windows based test programs
27. CD/DVD Test Disk
28. Operating system reference manuals
29. Pin Extraction tool - For removing and inserting pins into wire connectors
30. Surge Protector – (such as Panamax IEFI)
31. Telephone Analyzer, power and Z as appropriate – (such as Micro Seven, Inc. LS100/200)
32. Telephone line tester dual signal
33. Camera Airbrush
34. Kodak Black and White Greytone Scale
35. Spring Clip
36. Roller Cleaner
37. Vacuum Cleaner
38. Electrical Outlet/GFI Tester
39. Color Densitometer
40. Maintenance Kits
41. Field Technical Bulletins

Interested parties are encouraged to edit, delete, or add equipment that should be required of properly equipped shops servicing common office products.

Send your comments to: Dglass@eta-i.org or call **1-800 288-3824** with your suggestions for improvements.