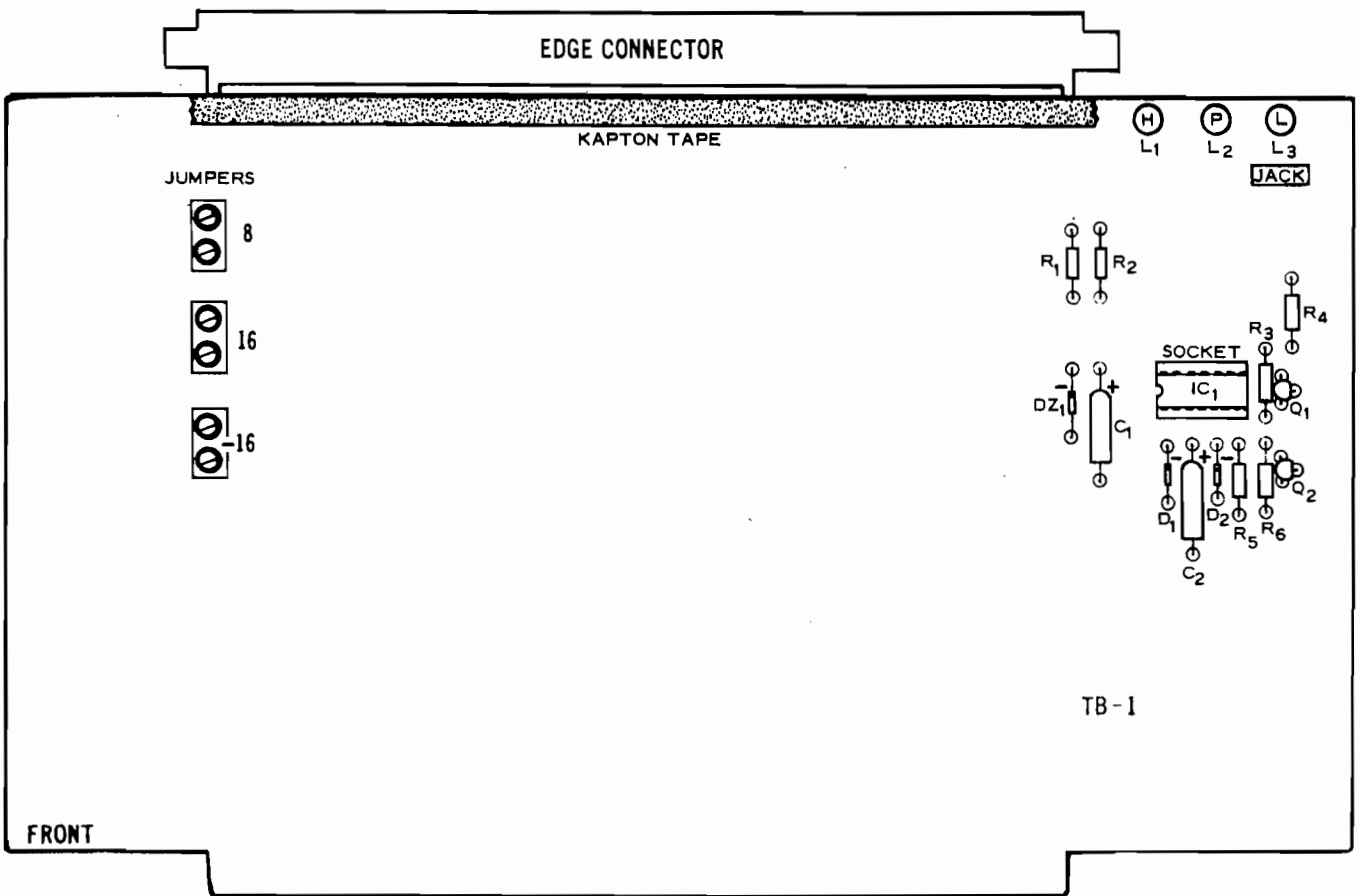


PARTS PLACEMENT DIAGRAM FOR THE EXTENDER/LOGIC PROBE BOARD



TEST PROBE ASSEMBLY INSTRUCTIONS

TEST PROBE PARTS

- Probe jack tip
- Black plastic handle with screw-in needle
- Multi-strand wire with insulation

Begin assembly by stripping about 1/2 inch insulation from the multi-strand wire. Twist the strands together and lightly tin with solder. The hollow end, be careful the probe tip gets a good connection with the iron tip and insert the stripped wire into the hollow end of the probe tip. Remove iron and when the solder hardens, quench the probe tip in water. Before making a connection, thread the hollow plastic handle over the wire first. Screw onto probe tip.

Now strip about 3/4 inch insulation off the other end of the wire. Clamp the probe jack tip tightly with solder. Clamp the probe jack tip with the hot iron. When the solder liquefies, the insulation is in contact with the metal tip of the iron. When the solder hardens, quench the probe tip in water. Before making a connection, it is not a solid connection, unsolder and try again. Your probe is now assembled and ready to use.

TIP: AN APPROPRIATE SIZED NAIL HOLE IN A PIECE OF SOLDER WILL HOLD THE TIPS STEADY WHILE YOU SOLDER THEM TOGETHER.

PARTS LIST FOR EXTENDER/LOGIC PROBE KIT

- Printed circuit board
- Kapton insulating tape
- Edge connector, 50-pin dual readout
- DZ1 - 1N751A zener diode
- D1 & D2 - 1N4148 diodes, labeled 179030
- R1 - 100 ohm 1/4 watt resistor — brown black brown
- R2 - 100 ohm 1/4 watt resistor — brown black brown
- R3 - 20K ohm 1/4 watt resistor — red black orange
- R4 - 10K ohm 1/4 watt resistor — brown black orange
- R5 - 1K ohm 1/4 watt resistor — brown black red
- R6 - 390 ohm 1/4 watt resistor — orange white brown
- IC socket
- L1 - red LED
- L2 - yellow LED
- L3 - green LED
- J1 - probe jack
- Q1 - PNP-2N2907A (F137) transistor
- Q2 - NPN-2N4400 (F444) transistor
- C1 & C2 - 39 μ F 10 volt capacitors
- 3 jumper links and 6 screws
- IC1 - 7404 hex inverter
- Edge connector label
- Logic probe kit with tip, wire, and probe

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SCHEMATIC OF EXTENDER/LOGIC

