

CDV-700 RADIOLOGICAL SURVEY METER
PROTECTIVE DIODES AND CAPACITORS

It has been determined that certain circuit changes of the CDV-700 Radiological Survey Meters will prolong the operating life of high mortality transistors in the circuit(s).

The procedures contained in this document are for the implementation of these circuit modifications.

The following materials are required to perform the modifications:

<u>Sort Code</u>	<u>Description</u>
21103	Diode 1N4117
21104	Diode 1N4107
21113	Capacitor .05uf100V
21115	Capacitor .025uf100V

INSTRUCTIONS

1. Install one ea. 1N4117 Diode (21103) between the emitter to collector circuit of Q1 in the Victoreen V-700-6 and 6A. Also, one ea. .05uf capacitor (21113) across winding 3 & 4 of transformer T2 (see attachment).
2. Install one ea. Zener diode 1N4107 (21104) across the emitter to base circuit of Q1, and install one ea. capacitor .025uf (21115) across winding 3 & 4 of T2 (see attachment).

It is intended that the above circuit modifications be made on all instruments being processed through the shop during the four year cycle. It is also intended that the modifications be performed on all instruments under repair.

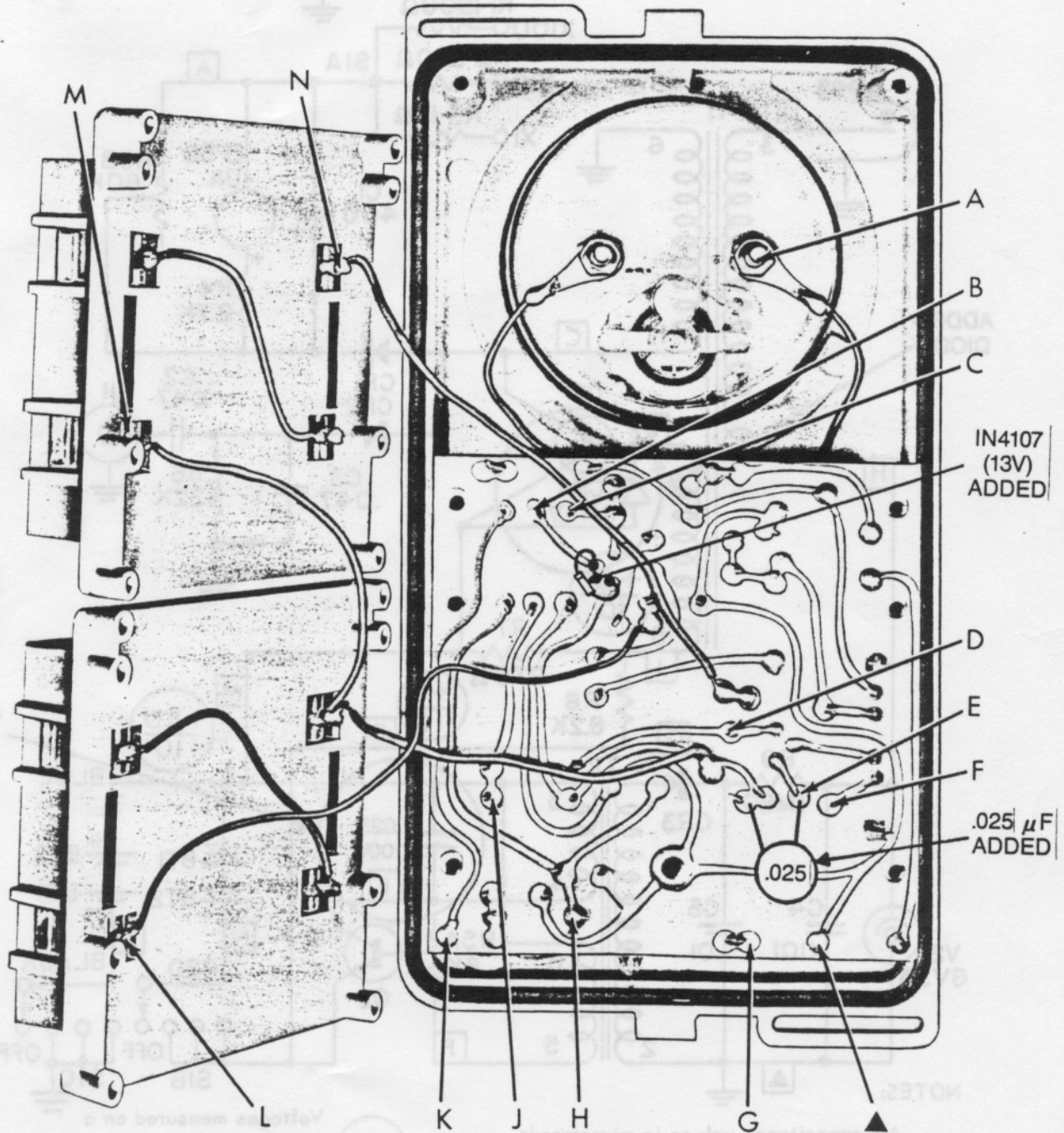


Figure 6-4. Location of Test Points

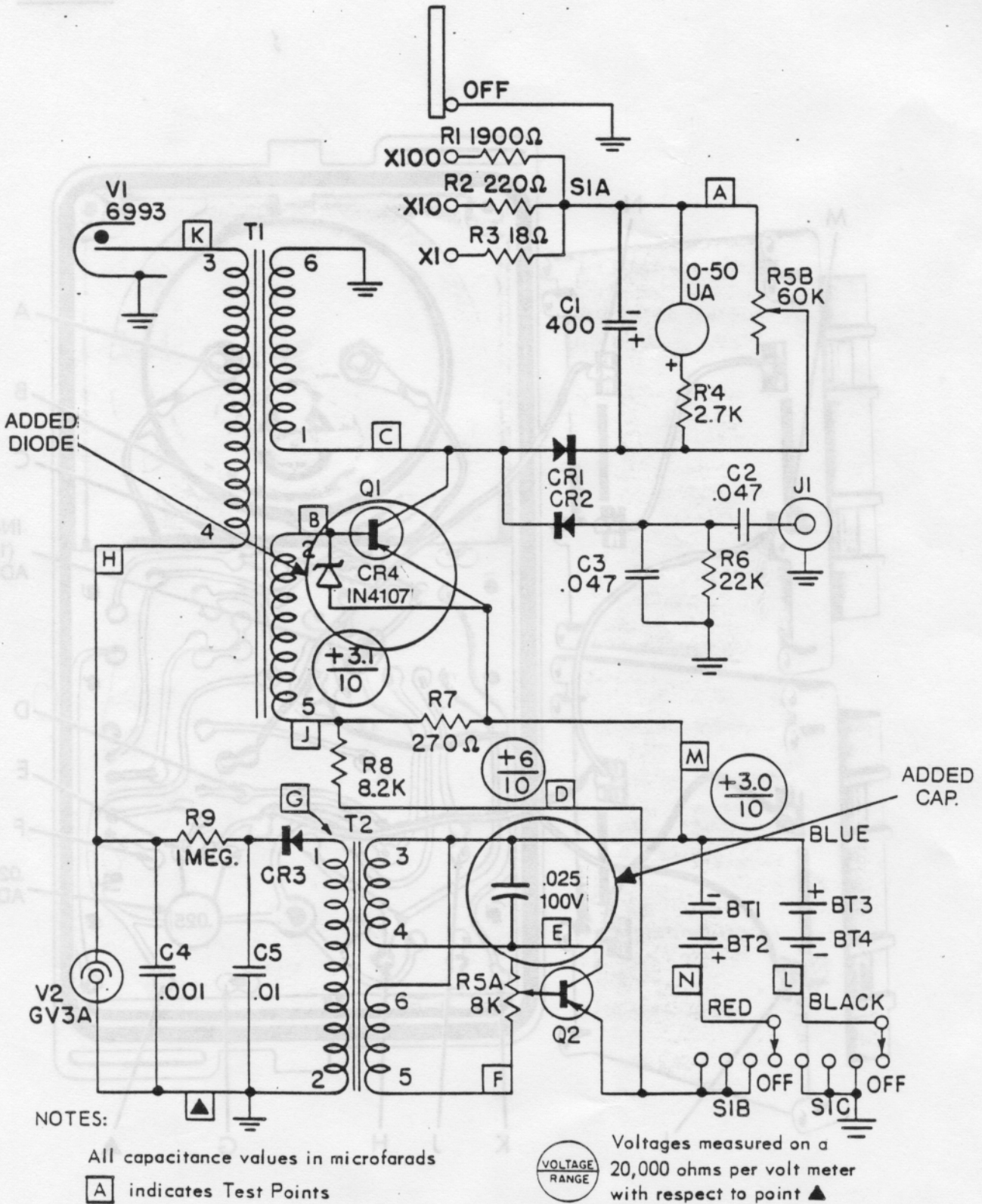


Figure 6-5. Schematic Circuit Diagram

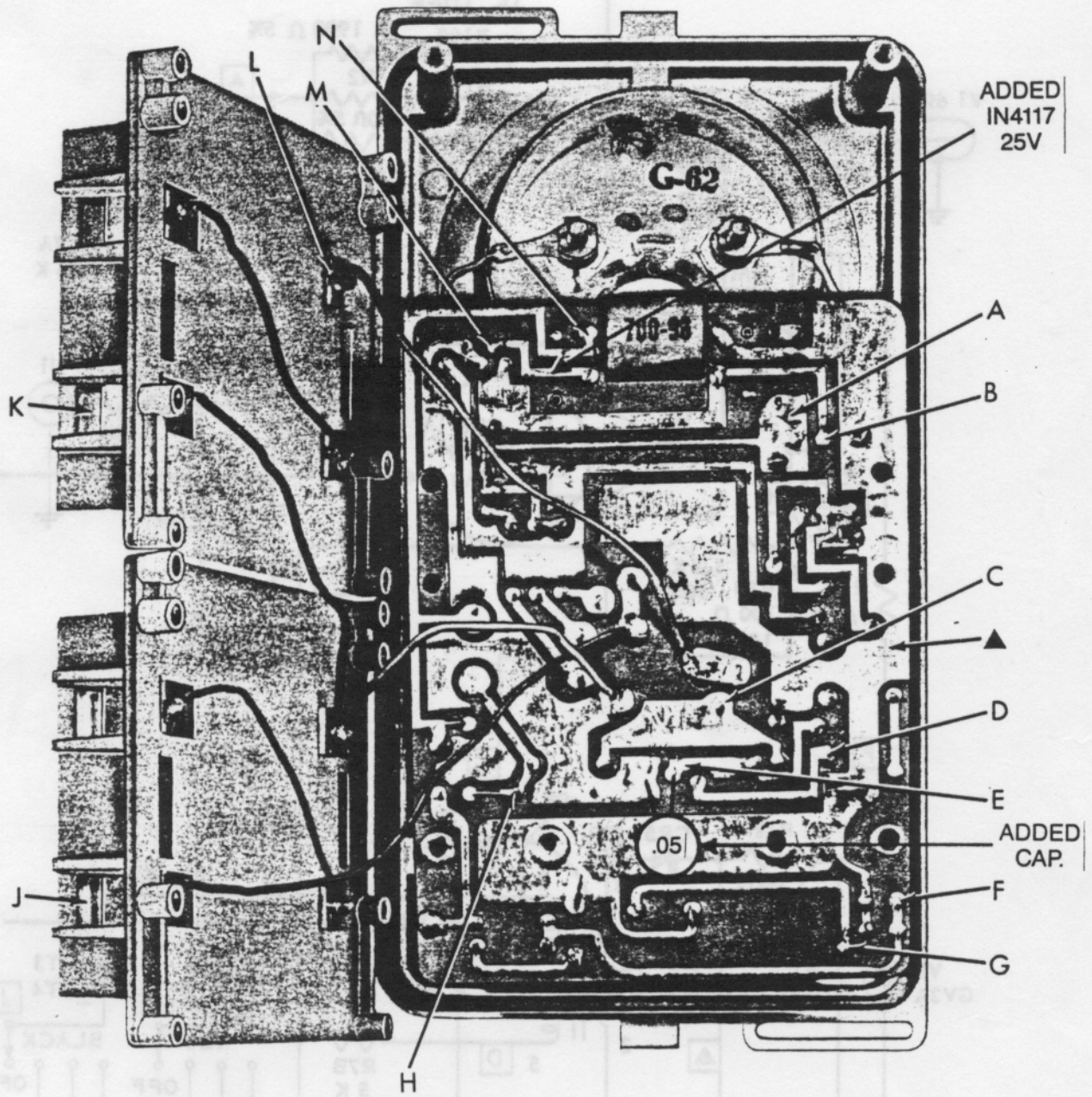
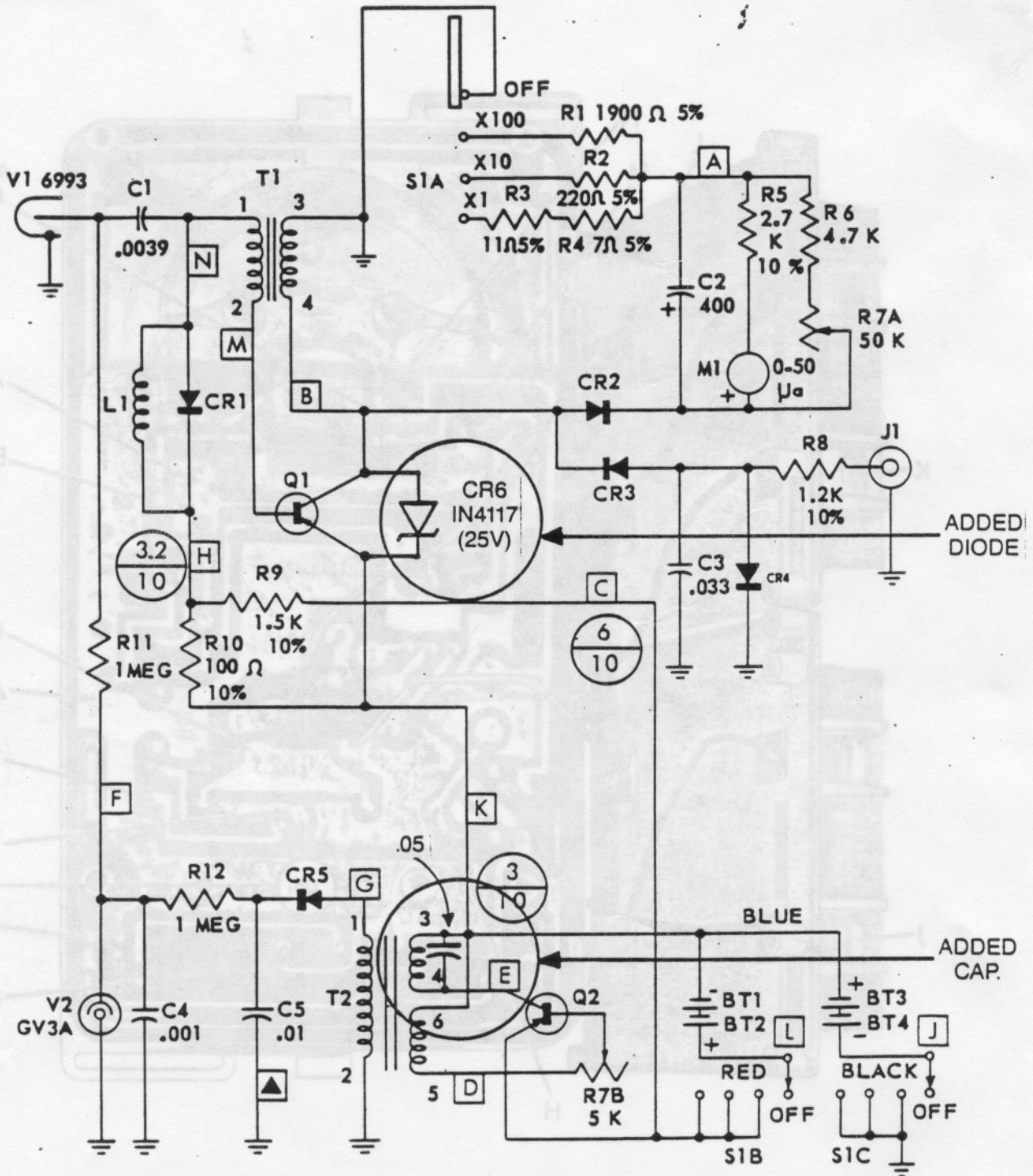


Figure 3-5. Location of Test Points



NOTES: All capacitance values in microfarads
 Resistors 1/2W 20% except as noted
 [A] indicates Test Points

Voltages measured on a 20,000 ohms per
 VOLTAGE RANGE volt meter with respect to point ▲

Figure 3-6. Schematic Circuit Diagram

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Eric Green

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