CDV-700 RADIOLOGICAL SURVEY METER
PROTECTIVE DIODES AND CAPACITORS

It has been determined that certain circuit changes of the CDV-700 Radio-
logical 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:

<table>
<thead>
<tr>
<th>Sort Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21103</td>
<td>Diode 1N4117</td>
</tr>
<tr>
<td>21104</td>
<td>Diode 1N4107</td>
</tr>
<tr>
<td>21113</td>
<td>Capacitor .05uf100V</td>
</tr>
<tr>
<td>21115</td>
<td>Capacitor .025uf100V</td>
</tr>
</tbody>
</table>

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.

Oak Ridge National Laboratory, Greenwood Enterprises, USA, Fort Worth,
Texas and the Emergency Management Systems Test Facility provided technical
information.
Figure 6-5. Schematic Circuit Diagram

NOTES:
- All capacitance values in microfarads
- ▲ indicates Test Points
- Voltages measured on a 20,000 ohms per volt meter with respect to point ▲
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 volt meter with respect to point ▲

Figure 3-6. Schematic Circuit Diagram
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