

SECTION VIII

SERVICE

8-1. INTRODUCTION

This section contains information for troubleshooting and repairing the Signal Generator. Included are principles of operation, troubleshooting tests, repair procedures, and block and circuit diagrams.

8-2. SERVICE SHEETS

Circuit principles of operation and troubleshooting information is found in the pages directly preceding the block and circuit schematic diagram foldouts. The foldout pages are found in the last part of this section. They consist of component locator diagrams, block diagrams, notes, supplemental diagrams, associated information, and circuit schematic diagrams.

8-3. Principles of Operation

The principles of operation and related tables and diagrams are part of Service Sheets BD1 through BD4, and Service Sheets 1 through 25. A general statement followed by more specific information is included to aid in understanding the operation of circuitry in the Signal Generator.

8-4. Troubleshooting

The troubleshooting tests and checks are part of Service Sheets BD1 through BD4, and Service Sheets 1 through 25. These tests and checks are used to aid in the service and repair of the Signal Generator. Troubleshooting using signature analysis is found where verifying the operation of digital circuitry is necessary. See paragraphs 8-22 through 8-29 for further troubleshooting information.

8-5. Block Diagrams

The block diagrams are found on Service Sheets BD1 through BD4. BD1 is the overall block diagram that shows the major functional sections. BD1 serves as an index to the troubleshooting blocks, and as a starting point for troubleshooting.

The troubleshooting block diagrams are found on Service Sheets BD2 through BD4. Each troubleshooting block diagram shows the major circuits in their functional groupings. These blocks serve as indexes to the circuit schematic diagrams. The High Frequency Loop and Output Section is shown on BD2, the Low Frequency Loop on BD3, and the digital (control) circuits are on BD4.

8-6. Circuit Schematic Diagrams

The circuit schematic diagrams are found on Service Sheets 1 through 25. These diagrams, in functional groupings, are aids for understanding operation and for troubleshooting the Signal Generator. Refer to the paragraphs entitled Principles of Operation, and Troubleshooting for more information.

Table 8-3. Schematic Diagram Notes (1 of 8)

