1C DISCRETE CALLING GENERATOR

SERVICING

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1. GENERAL

1.01 This section provides the servicing instructions for the discrete calling generator. It has been reissued to include the latest engineering changes and to remove the preliminary designation. Since this is a general revision, the arrows used to indicate changes and additions have been omitted.

1.02 Other than possible trouble shooting efforts, the discrete calling generator requires no maintenance. The signal generator motor has lifetime lubrication.

1.03 A volt-ohm-milliampere meter is required for checking voltages, current, resistance (continuity), and capacitors. No other special tools are required.

1.04 For circuit description, schematic wiring diagrams, circuit card diagrams, installation and checkout tests, refer to the appropriate sections.

2. SERVICING

2.01 If the source of trouble has not been localized, repeat the tests given in the installation section. Examine all related circuitry for broken wires or defective transistors or relays.

2.02 Measure the power supply voltages and compare with the values given on schematic wiring diagram 7293WD. The 36-volt source may vary from 33 to 52 volts on properly operating units. The 6.2 zener diode voltages may properly vary from 5.89 to 6.51 volts. A voltage that falls outside these limits may indicate a faulty zener diode.

INTERFACE CIRCUITS

A. Serial

2.03 For serial data sets, determine if interface circuits Request to Send (lead 4) and Send Data (lead 2) are ON. If either circuit is OFF, test the appropriate components on circuit cards TP306080 and TP306082. Use the circuit card diagrams to identify specific components.

B. Parallel

2.04 For parallel data sets, determine if the Data Mode (lead 20) circuit does not have continuity to ground. If it is grounded, trace the circuit and remove the short.

2.05 Determine if the signal is going out properly on circuit Answer-back A. If it is not, examine circuit cards TP306080 and TP306082 for faulty components. Use the circuit card diagrams to identify specific components.

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