

**DIGITAL DATA SYSTEM**  
**T1 DATA MULTIPLEXER PERFORMANCE MONITOR**  
**MAINTENANCE AND TROUBLESHOOTING**

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**1. GENERAL MAINTENANCE PHILOSOPHY**

- 1.01** This section provides the maintenance and troubleshooting procedures for the T1 data multiplexer performance monitor (T1DM-PM).
- 1.02** If this section is reissued, the reason for reissue will be given in this paragraph.
- 1.03** The T1DM-PM does not require any routine maintenance. Maintenance is necessary if the T1DM-PM fails and consists of substituting spares for the power unit or circuit packs.
- 1.04** The troubleshooting procedure is used if a T1DM-PM failure is indicated.

**2. TROUBLESHOOTING PROCEDURE**

- 2.01** Check the T1DM alphanumeric displays, the T1DM-PM display circuit pack, HL34 (Fig. 1), and the bay alarm display on the bay clock, power, and alarms (BCPA) shelf or the local timing supply (LTS) and T1DM assembly.
- 2.02** If only one T1DM display is flashing and a minor BCPA or LTS alarm is present (MN lamp is lighted), the trouble is probably in the T1DM. Refer to the T1DM maintenance and troubleshooting procedures (Section 314-912-300). If the T1DM procedures do not clear the trouble, perform the T1DM-PM procedures that would be performed if the same alphanumeric character were

displayed on all T1DMs that occupy the same 4-shelf assembly (see Section 314-983-500, Fig. 3).

**2.03** If one T1DM display is flashing, one or more T1DM displays are on continuously, and a major BCPA or LTS alarm is present (MJ lamp is lighted), the trouble is probably in the T1DMs. Refer to the T1DM maintenance and troubleshooting procedures. If the T1DM procedures do not clear the trouble, perform the T1DM-PM procedures as in 2.02.

**2.04** If one or more lights on HL34 are on, if the same alphanumeric character is displayed on four or more T1DMs monitored by a T1DM-PM, if an alarm is present only on the BCPA shelf or LTS (MJ, MN, or FA lamp is lighted), or if the T1DM troubleshooting procedures do not clear a trouble condition, refer to Fig. 2.

**3. REFERENCES**

**3.01** The following sections provide maintenance information on equipment associated with the T1DM-PM. These sections may not have been issued yet; check the applicable index to determine whether they are available.

SECTION	TITLE
314-912-300	Digital Data System—T1 Data Multiplexer—Maintenance and Troubleshooting
314-913-320	Digital Data System—Local Timing Supply—Maintenance and Troubleshooting
314-916-300	Digital Data System—Bay Clock, Power, and Alarms Circuit—Maintenance and Troubleshooting

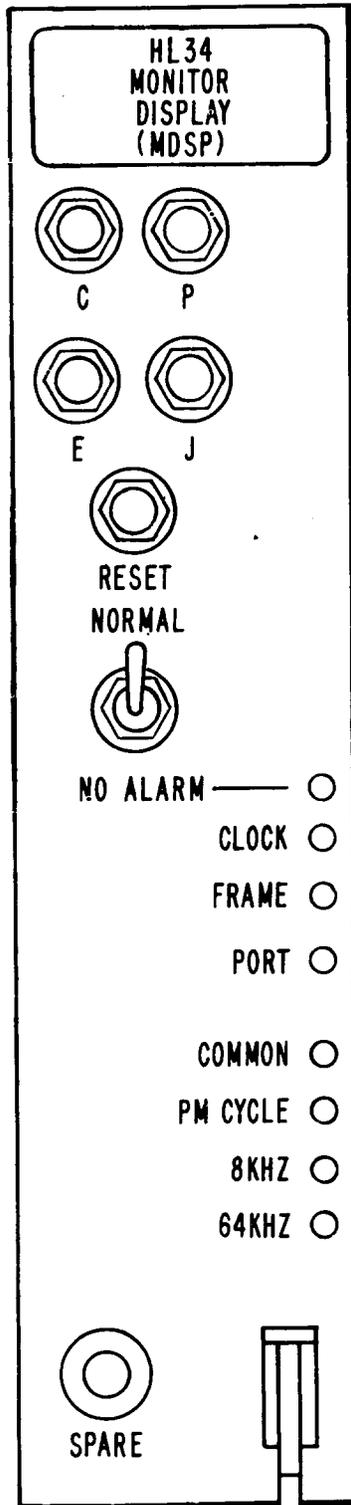


Fig. 1—T1DM-PM Display Circuit Pack, HL34

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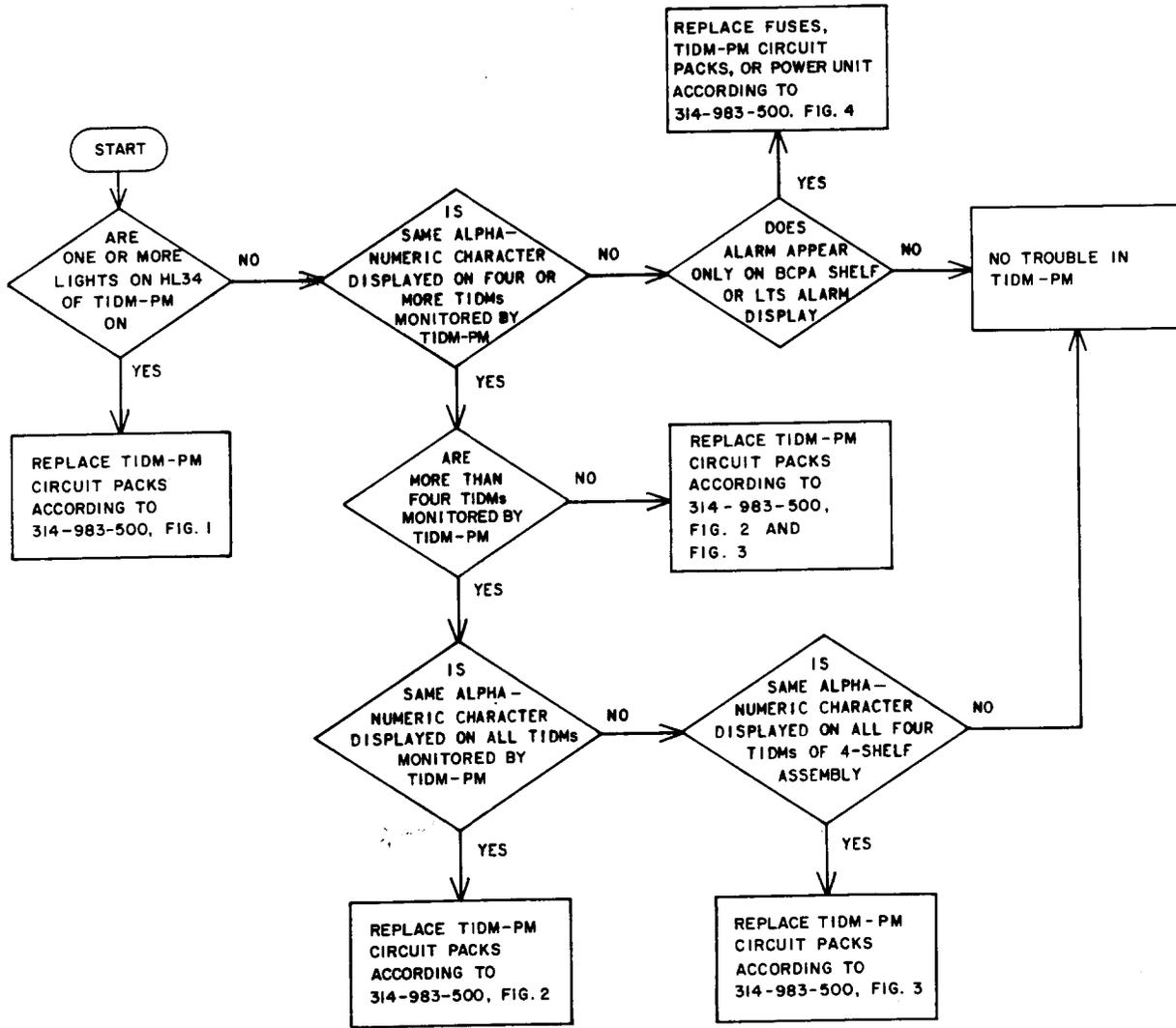


Fig. 2—TIDM-PM Troubleshooting Procedure