

**L MULTIPLEX TERMINALS**  
**COMMON EQUIPMENT**  
**CARRIER TRANSMISSION MAINTENANCE SYSTEM (CTMS)**  
**MEASUREMENT OF SUPERGROUP AND**  
**GROUP PILOTS AT SCANNER (PLSC)**

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**3. SCHEDULING PROGRAM**

**3.01** PLSC in a magnetic tape storage system is controlled by BOS commands IT (to establish an execution time), ON (to initialize the program for routine running), and ON PLSC,NOW... (for demand execution). In a disc storage system, one of two methods of control may be used: (1) RTE system commands IT and ON as above for routine execution and RU for demand execution, or (2) control by the auxiliary control monitor (ATM) program in which PLSC is initialized by an IP command, scheduled by an IS command, and run as a demand program by an ON,PLSC,NOW... command. The BOS and RTE system commands and the ATM program commands are described in Section 103-260-300.

**1. GENERAL**

**1.01** This section describes the supergroup and group pilots at LMX scanners program (PLSC) of CTMS and corrective action to take when measurements exceed allowable limits. PLSC is normally run by clock control to measure terminal receiving SG and GR pilots at scanner access, but may be run as a demand measurement with parameter control.

**1.02** This section is reissued to reflect printout modifications and revise the corrective action procedure. Since this issue constitutes a general revision, arrows ordinarily used to indicate changes are omitted.

**2. ACCESS CIRCUIT**

**2.01** The access circuit used to feed signals from the scanner to the CTMS control center for measurement is shown in Fig. 1.

**3.02** When run as a demand program, PLSC may be called to measure the SG and GR pilots of a particular scanner. The command to start PLSC is then:

**\*ON,PLSC[,NOW],p1 [,p2,p3 ]**

in a magnetic tape system or in a disc system when PLSC is under ATM program control, or:

**\*RU,PLSC,p1 [,p2,p3 ]**

in a disc system using only system commands.

**Where:**

p1 is short code assigned to mastergroup.

p2 is always zero (enter by default using two commas).

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## SECTION 356-010-553

$p3 = 0$  (or absent) print only out-of-limits measurements.

$p3 > 0$  print all measurements.

### 4. PRINTOUT

**4.01** Figure 2 illustrates a typical routine PLSC printout. The print limit is  $\pm 0.25$  dB from nominal. The meaning of some entries in the

heading, measurement results, and summary have been identified for convenience.

### 5. CORRECTIVE ACTION

**5.01** Chart 1 is a suggested procedure for correcting pilot deviations measured at scanner. When trouble has been cleared, follow local procedures to update the maintenance history file.

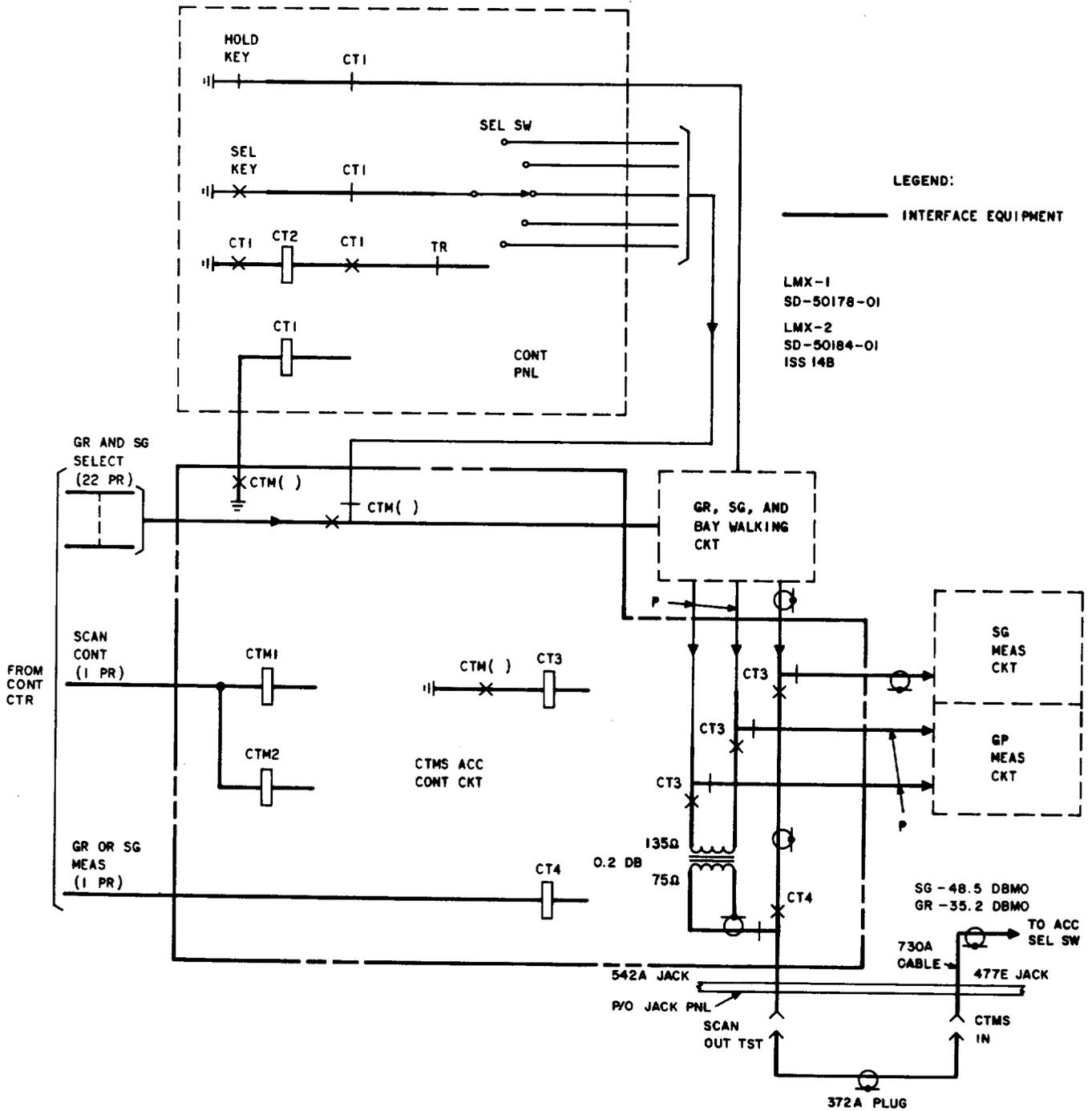


Fig. 1—LMX-1 and LMX-2 Scanner Access Circuit



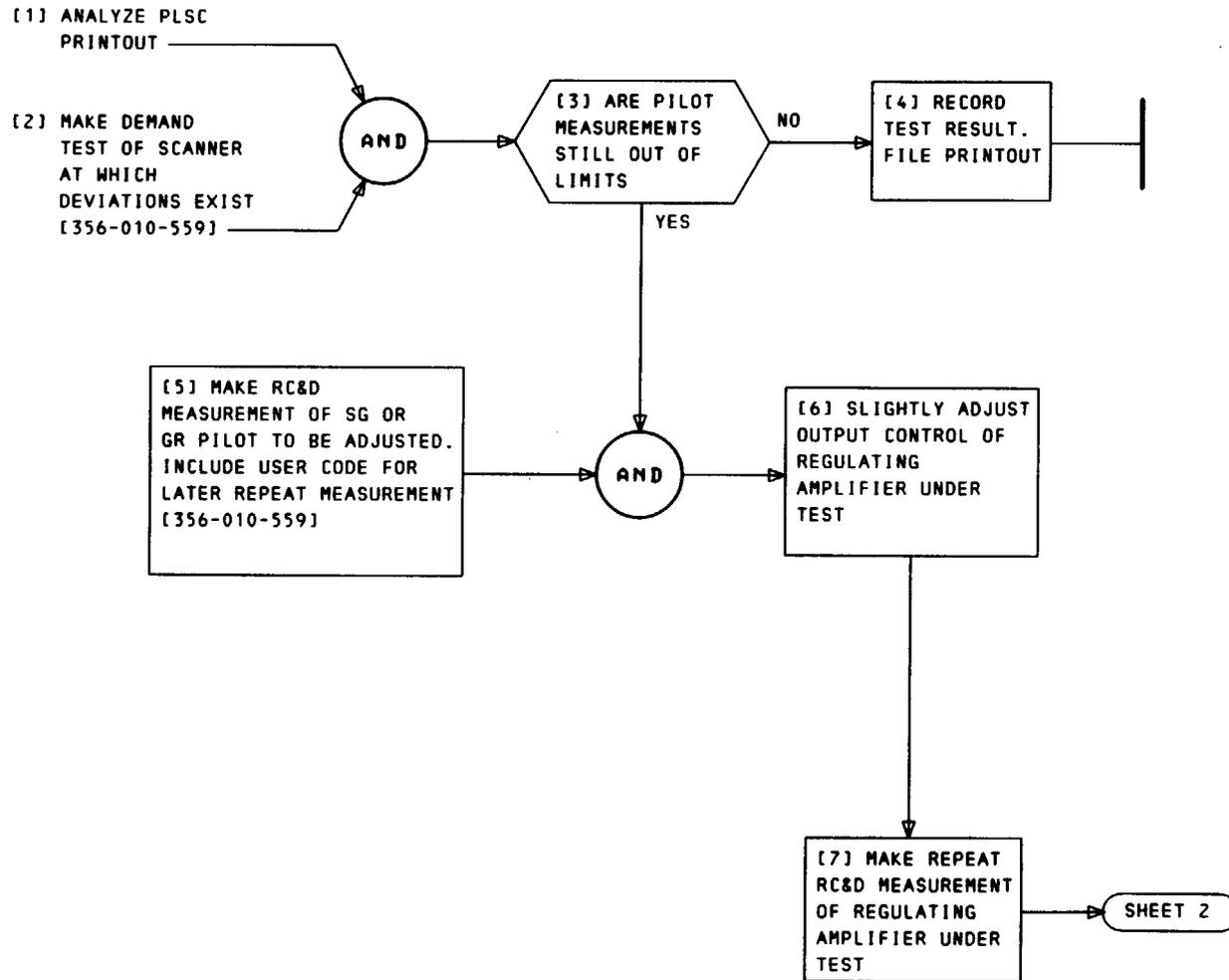


Chart 1—Correct Pilot Deviations Measured at Scanner (Sheet 1 of 2)

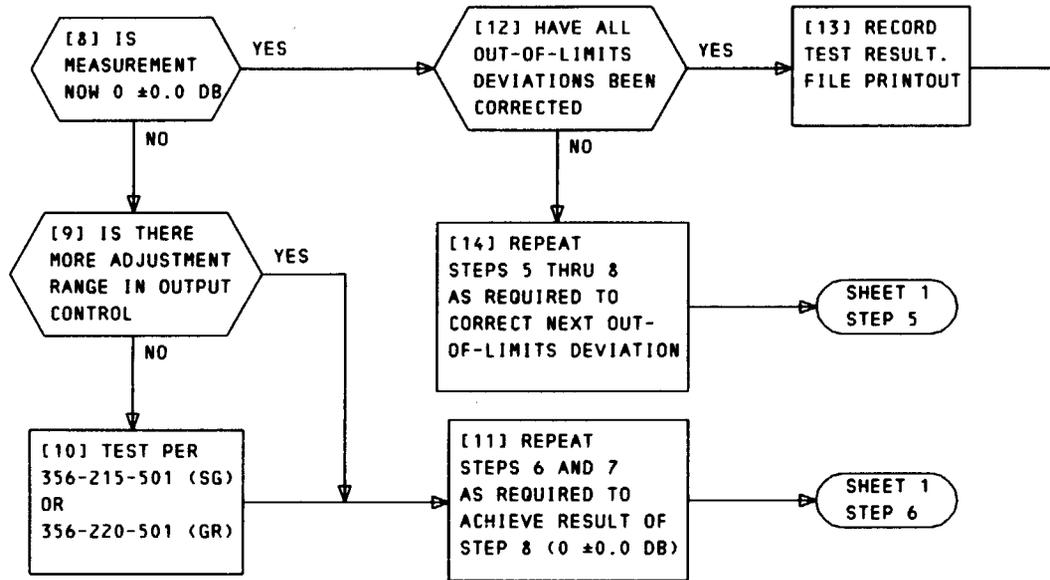


Chart 1—Correct Pilot Deviations Measured at Scanner (Sheet 2 of 2)