

**L MULTIPLEX TERMINALS**  
**LMX-1**  
**CARRIER AND PILOT SUPPLIES**  
**PILOT DISTRIBUTING CIRCUITS**  
**OUTPUT POWER CHECK**

The purpose of this test is to verify the correct output power from the L3 pilot distributing circuit.

This section supersedes and updates information previously contained in Section 356-078-501 which has been cancelled. *Equipment Test Lists are affected.*

**APPARATUS**

*Receiving Test Equipment* (RTE) having the following input capabilities (Section 356-010-500):

Impedance: 75 ohms

Frequency Range: 308 kHz to 8320 kHz

Power: -37.0 dBm to -24.5 dBm

STEP	PROCEDURE
	<p><i>Caution: Transfer of the carrier supply will cause hits on data and telegraph service; therefore, the number of transfers should be limited to minimize service interruptions.</i></p>
1	If both regular and emergency generators are provided, turn all MAN CON switches to the REG position.
2	Prepare the receiving test equipment (RTE) for a 75-ohm measurement of the pilot frequency to be measured (Table A).
3	Connect the RTE to an unused bus tap for the frequency to be measured [patch (1), Fig. 1.]
4	Read the RTE meter indication.
	<p><i>Requirement:</i> See Table A.</p>
5	If the requirement of Step 4 cannot be met, perform the tests in Section 356-075-503 (to be reissued as 356-174-502). If the requirements are met, proceed to Step 6.

TABLE A

FREQUENCY (KHZ)	OUTPUT POWER (DBM)	
	Minimum	Maximum
308	-37.0	-34.5
556	-37.0	-34.5
2064	-37.0	-34.5
3096	-37.0	-34.5
7266	-27.0	-24.5
8320	-37.0	-34.5

STEP	PROCEDURE
6	Where both regular and emergency pilot generators are provided, turn the MAN CON switches to the EM position.
7	Read the RTE meter indication.  <b>Requirement:</b> The power level at each distribution bus shall not differ from the requirement of Step 4 by more than 0.2 dB.
8	Remove patch (1), Fig. 1.
9	Return the MAN CON switch to normal service.

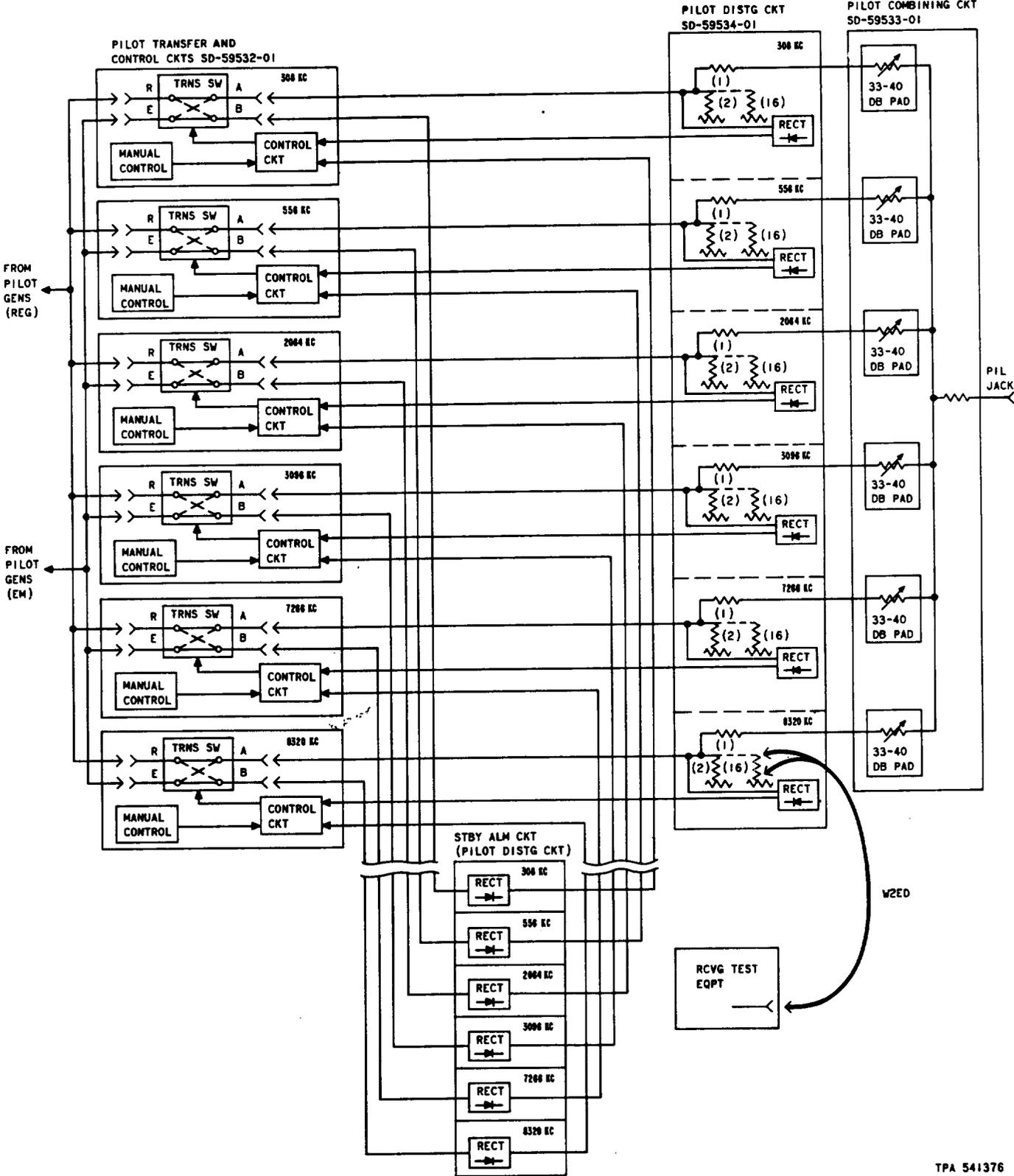


Fig. 1—L3 Pilot Distributing Circuit—Measurement of Distribution Bus Output Power

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