

L MULTIPLEX TERMINALS
LMX-1
CARRIER AND PILOT SUPPLY
INTERMEDIATE FREQUENCY CONVERTER CIRCUIT
1211-KHZ OUTPUT TESTS

Output tests at the pilot generator J68829P (Fig. 1) are described. These tests supersede tests described in Section 356-067-503. *Equipment Test Lists are affected.*

APPARATUS

Receiving Test Equipment (Section 356-010-500) having the following characteristics:

Frequency: 1211 kHz

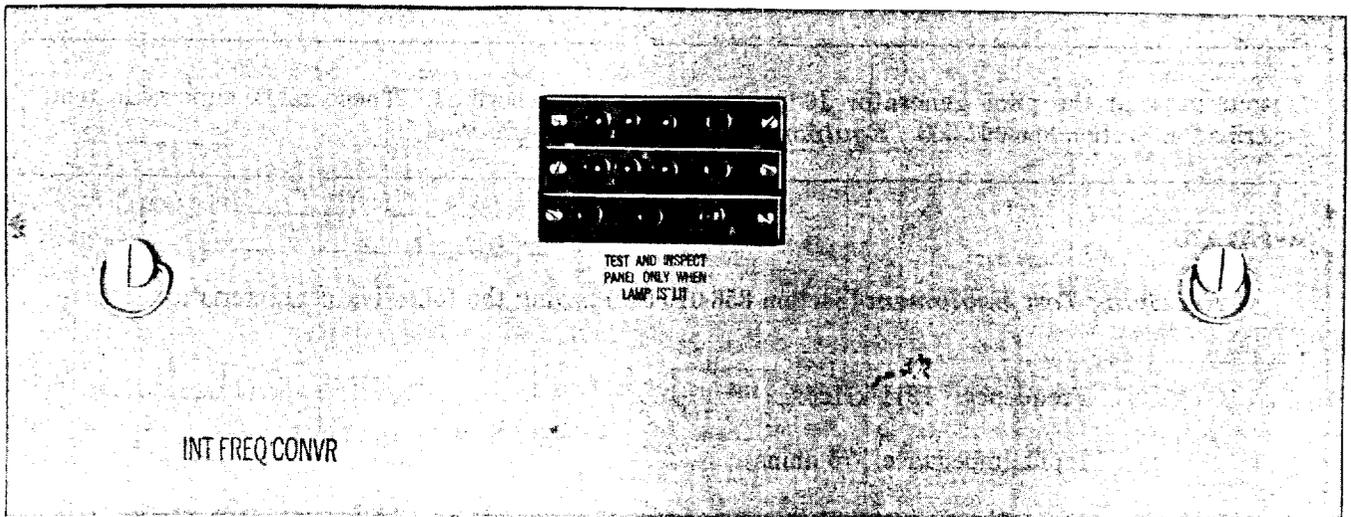
Input Impedance: 75 ohms

Input Power: -35 dBm

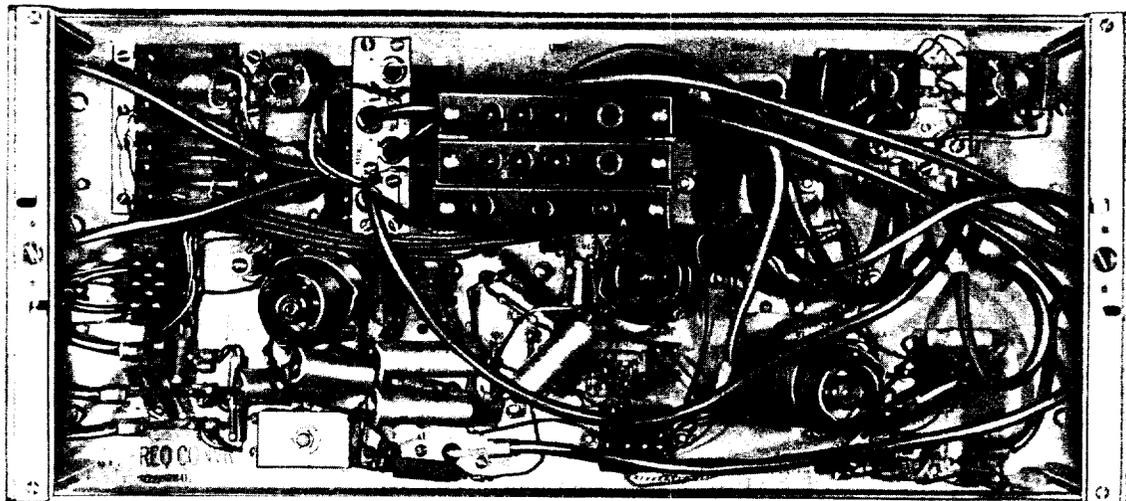
P2BJ Cord

STEP	PROCEDURE
1	Prepare the receiving test equipment (RTE) for a 75-ohm terminated measurement of 1211 kHz at a power of -35 dBm.
2	Connect the RTE to the 1211 KC TST jack [patch (1), Fig. 2].
3	Measure the power at the 1211 KC TST jack. Requirement: -35.0 dBm \pm 2.0 dB
4	If the requirement of Step 3 is met, disconnect the RTE from the 1211 KC TST jack and restore service to normal. If it is not met, make tests as prescribed in Sections 356-166-501 and 356-166-502.
5	If the requirement of Step 3 still is not met, manually switch the intermediate frequency converter under test out of service as prescribed in Section 356-052-501.

STEP	PROCEDURE
	<p><i>Caution 1: Do not proceed with this test until the green lamp associated with the intermediate frequency converter panel under test is lighted.</i></p> <p><i>Caution 2: It is important that the number of transfers of the carrier supply be kept to a minimum to avoid hits on data and carrier telegraph service.</i></p>
6	Remove the front-panel cover of the intermediate frequency converter unit under test.



(COVER ON)



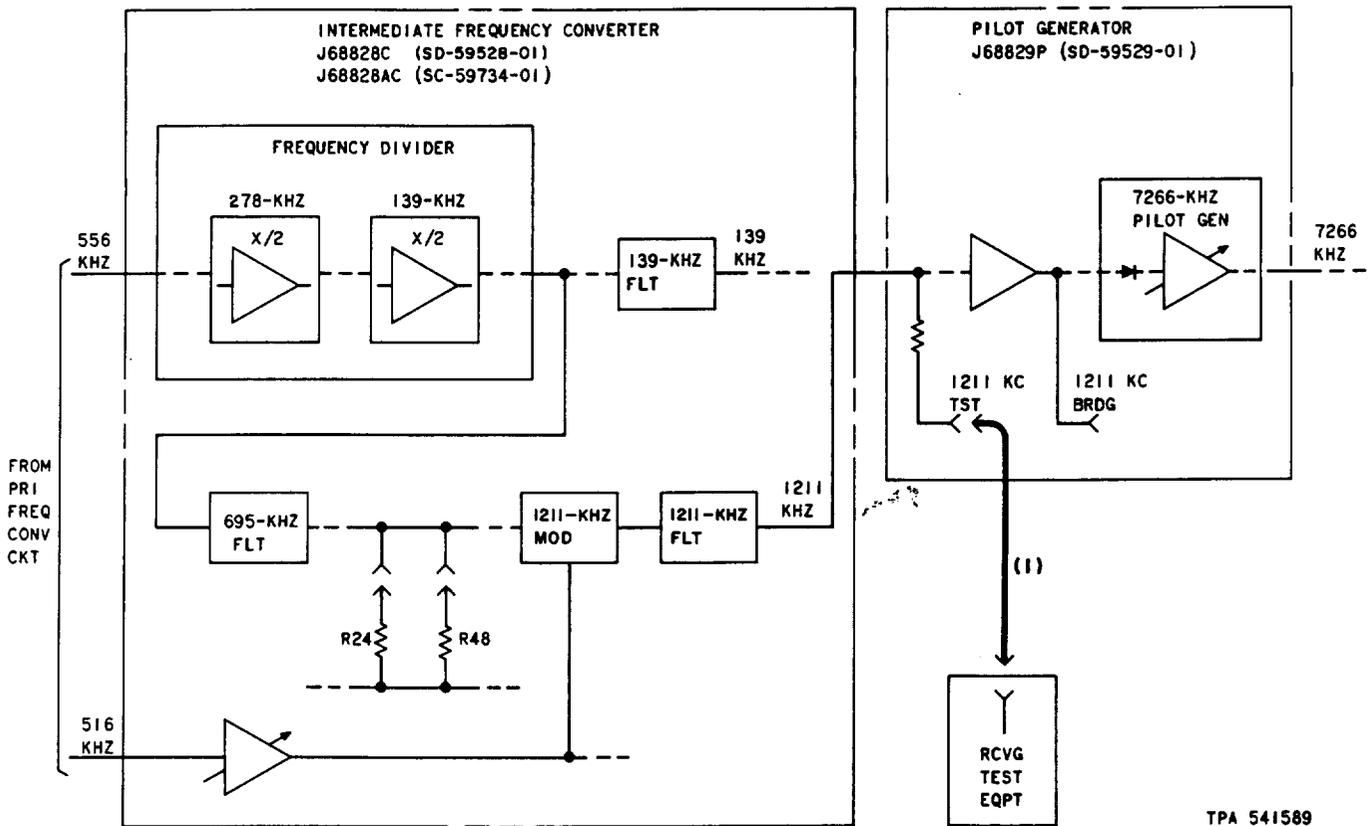
(COVER REMOVED)

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Fig. 1—Intermediate Frequency Converter Circuit (With and Without Cover)

STEP	PROCEDURE		
7	Adjust the strapping of the appropriate resistors indicated in Table A to meet the requirement.		
8	If the requirement of Step 7 is met, proceed to Step 10. If it is not met, locate and clear the trouble in the 1211-kHz modulator and filter circuit of the intermediate frequency converter unit under test.		
9	Verify the power level of the 1211-kHz signal. Repeat Steps 3 and 7, as required.		
10	Disconnect the RTE from the 1211 KC TST jack [patch (1), Fig. 2].		
11	Replace the front-panel cover of the intermediate frequency converter unit.		
12	Restore the intermediate frequency converter unit to service as prescribed in Section 356-150-300.		
TABLE A			
INTERMEDIATE FREQUENCY CONVERTER			
PANEL	SCHEMATIC	RESISTOR ADJUSTMENT	REQUIREMENT (1211 KC TST JACK)
J68828C	SD-59528-01	R24	- 35.0 dBm ±2.0 dB
J68828AC	SD-59734-01	R24, R48	

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Fig. 2—Measurement of 1211-kHz Output