Save Ef

SERVICING CENTER TESTS USING 5U (J98705U) TEST SET J98703W SCHEDULE A AND B PROGRAM CHANNEL UNITS N CARRIER SYSTEM OVER-ALL TESTS

Each channel unit is composed of a voice-frequency subassembly and a carrier frequency subassembly connected by a plug and jack to form the complete program plug-in unit. The unit receives speech frequencies and modulates them for transmission over the high frequency line. It also receives the program carrier signal and demodulates it to program frequencies. The unit may be used in a List 1, 2 or 3 terminal mounting and it has a 5000-cycle bandwidth.
The tests outlined herein are designed to check the characteristics of the over-all channel unit.

APPARATUS:

1—Vacuum Tube Voltmeter
1—Oscillator
1—P2OD Cord
1—W2EB Cord
2—P2BP Cords
1—Volt-Ohm-Milliammeter

STEP	PROCEDURE
1	Switches C and D on 5U test set on OFF position.
2	Connect channel unit, oscillator, and vacuum tube voltmeter to 5U test set as shown on associated sketch.
3	Adjust filament and plate voltages. ***Requirement:*** Filament 38.5 volts. Plate 128-130 volts.
4	Make tests as outlined in chart for both "F" and "FA" positions of switch S1. The individual subassemblies should first be tested and adjusted as covered in previous sections of this series.

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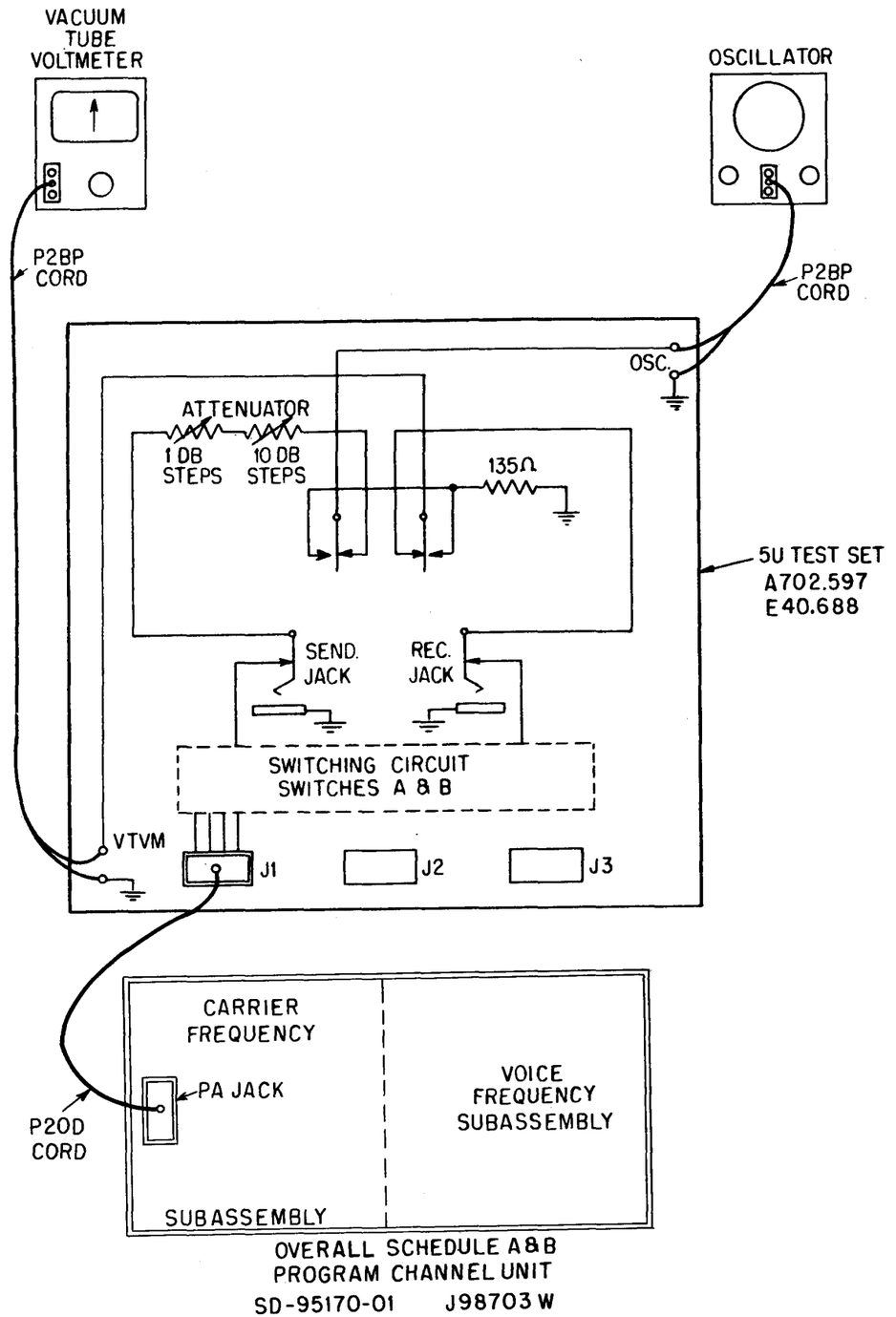
PURPOSE OF TEST	SWITCH POS. A	SWITCH POS. B F	SWITCH POS. B FA	ATT (db)	CAL (db)	OSC FREQ (cps)	W2EB CORD IN REC JK	TEST LIMITS MIN	TEST LIMITS MAX	ADJ AS REQ	TS TST	TEST CONDITIONS AND REMARKS
1. CARRIER OUTPUT ADJ	13		13				X	−15.0 db		MOD Pot.		Measure at M2 jk—grd.
		13						−11.0 db	−7.0 db			
2. LOOPBACK AMP ADJUST	13	11	11					−16.5 db		LOOP AMP ADJ (on 5U)		
3. CHAN UNIT REG ADJ	13	13	13					3.0 DCV		REG Pot.		Measurement made with volt-ohm-milliammeter on 12V scale. Measure between R2 jk. and PLT (on 5U).
4. GAIN LOAD TST	13	13	13	22	0	1000		−8.0 db	−4.0 db			Measured value between these limits is M value.
				13	0	1000		M +8.0 db	A +9.8 db			
5. FREQ RESP	13	13	13	22	0	100		M −1.0 db	A +0.5 db			
						5000		M −2.2 db	A +0.4 db			



OVERALL SCHEDULE A&B
PROGRAM CHANNEL UNIT
SD-95170-01 J98703W