

SERVICING CENTER TESTS USING 5U (J98705U) TEST SET
J98703TA SCHEDULE C AND D PROGRAM CHANNEL UNITS
N CARRIER SYSTEM
OVER-ALL TESTS

These units are essentially the same as the corresponding message channel units, J98703F or J98703FA, with signaling and resistance hybrids removed and with different filters. Each unit is composed of a compressor, expander, and carrier frequency subassembly. The carrier frequency subassembly is the same unit used with message channel units. The position of a switch (S1), which is installed on the expander subassembly, is determined by whether a J98703F or FA carrier frequency subassembly is used. The unit compresses audio frequencies, modulates and transmits them. It also receives carrier signals, demodulates and expands them back to audio frequencies.

The tests outlined herein are designed to check the characteristics of the over-all program channel unit and to make adjustments in the unit for test purposes.

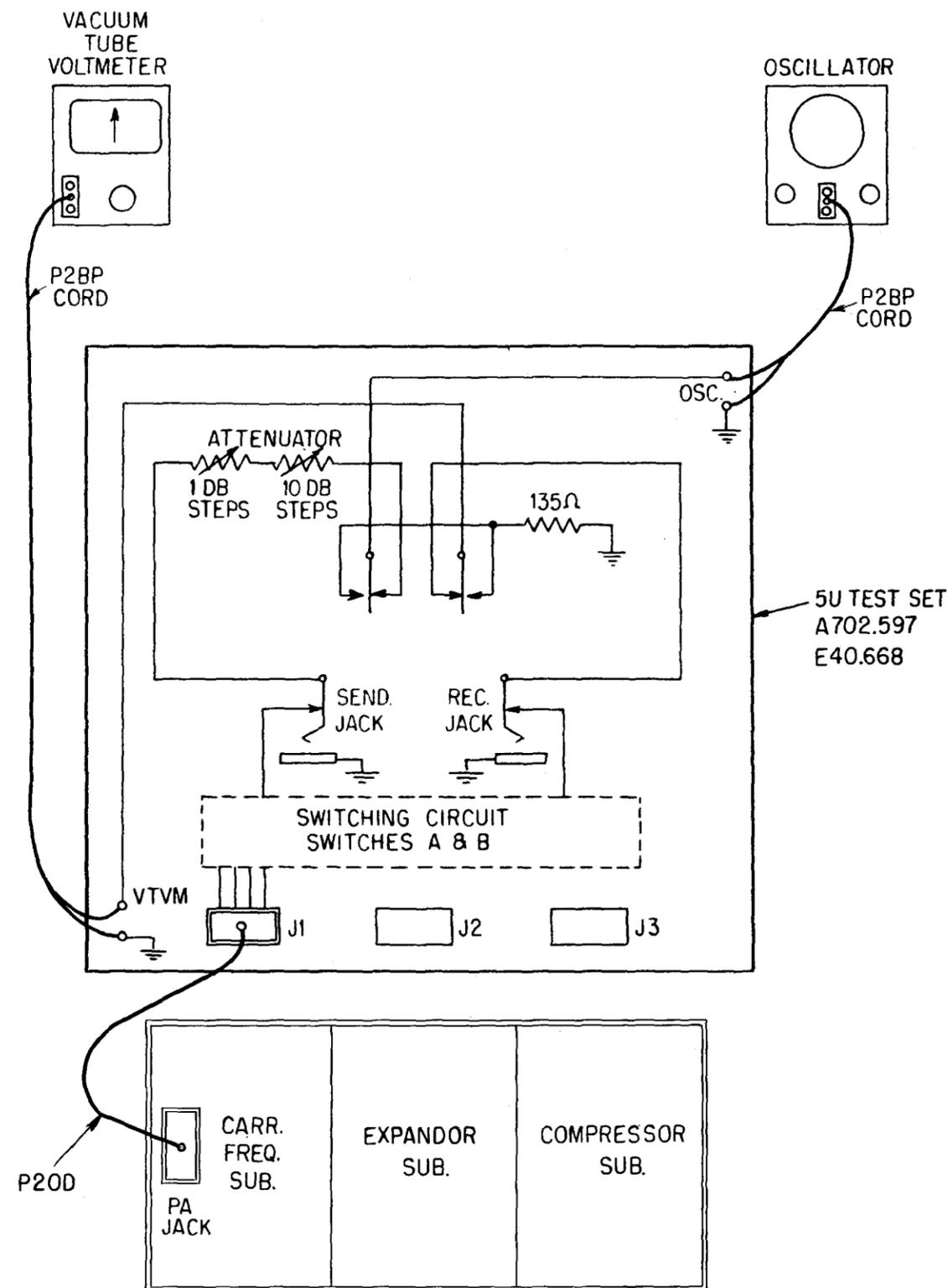
APPARATUS:

- 1—Vacuum Tube Voltmeter
- 1—Oscillator
- 1—P20D Cord
- 2—P2BP Cords

STEP	PROCEDURE						
1	Switches C and D on 5U test set on OFF.						
2	Connect the channel unit, oscillator and vacuum tube voltmeter to 5U test set as shown on associated sketch.						
3	Adjust filaments and check plate voltages. Requirement: Filament 38.5 volts Plate 128-130 volts						
4	Adjust switch S1 to the appropriate position. <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><i>Carrier Freq. Sub.</i></td> <td style="text-align: center;"><i>S1 pos.</i></td> </tr> <tr> <td style="text-align: center;">J98703F</td> <td style="text-align: center;">T</td> </tr> <tr> <td style="text-align: center;">J98703FA</td> <td style="text-align: center;">TA</td> </tr> </table>	<i>Carrier Freq. Sub.</i>	<i>S1 pos.</i>	J98703F	T	J98703FA	TA
<i>Carrier Freq. Sub.</i>	<i>S1 pos.</i>						
J98703F	T						
J98703FA	TA						
5	Make tests as outlined in chart. <i>Note:</i> The individual subassemblies must first be tested and adjusted as covered in the following sections of this practice before making any of these tests. Carrier Frequency Subassembly—J98703F —E34.035.03 J98703FA—E34.035.04 Compressor Subassembly —E34.035.29 Expander Subassembly —E34.035.30						

PURPOSE OF TEST	SWITCH POS.			ATT (db)	CAL (db)	OSC FREQ (cps)	TEST LIMITS (db)		TS TST	TEST CONDITIONS AND REMARKS
	A	B*					MIN	MAX		
		T	TA							
1. LOOP AMP ADJ	13	12	11				-21.5			Adjust LOOP AMP ADJ on 5U test set for this value.
2. DEMOD OUT	13	14	13					-49.0		
3. GAIN LOAD	13	14	13	11	0.0	1000	+12.6	+16.4		
				50	0.0	1000	-25.4	-21.6		
4. FREQ RESP	13	14	13	32	0.0	200	- 7.4	- 4.6		
						3500	- 7.9	- 4.1		

* Use the column that corresponds to the S1 switch setting.



C AND D PROGRAM CHANNEL UNIT
OVERALL TESTS

SD 95118-02

J98703 TA