

*Steve Eb*

**SERVICING CENTER TESTS USING 5U (J98705U) TEST SET**  
**J98703TA SCHEDULE C AND D PROGRAM CHANNEL UNITS**  
**N CARRIER SYSTEM**  
**EXPANDOR SUBASSEMBLY TESTS**

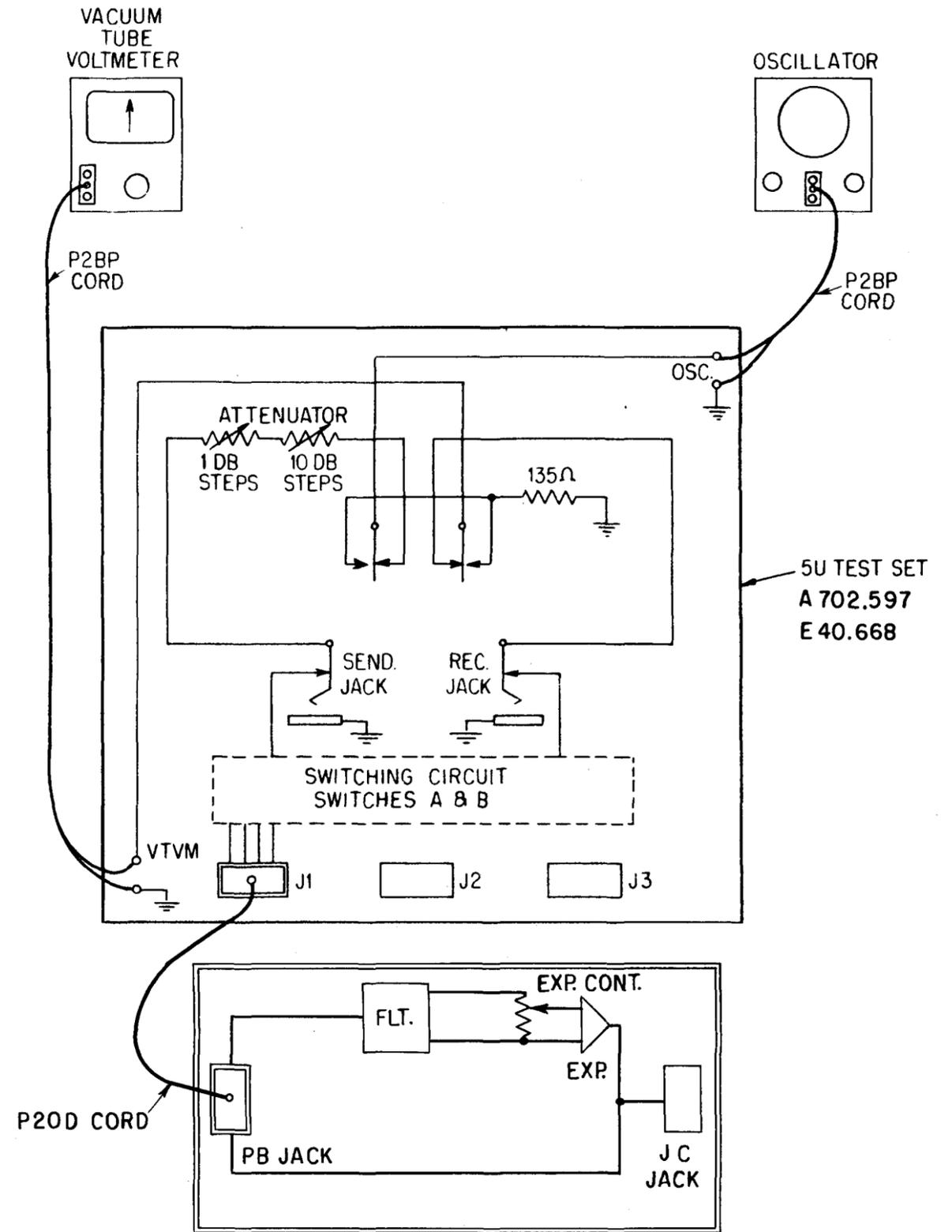
The expander subassembly of the schedule C and D program channel unit is essentially the same as that used with type N, O and ON carrier message channel units except that signaling apparatus has been removed and a different type filter installed.  
 The tests outlined herein are designed to check the characteristics of the expander and to provide gain adjustment of 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 position.
2	Connect expander subassembly, oscillator and vacuum tube voltmeter to 5U test set as shown on associated sketch.
3	Adjust filament and check plate voltages on 5U test set.  <div style="margin-left: 40px;"> <b>Requirement:</b> Filament 38.5 volts            Plate 128-130 volts         </div>
4	Make test as outlined in chart. Position of S1 is unimportant.

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		
1. RANGE EXP POT ADJ	6	3	6	0.0	1000		-10.0		EXP pot. in extreme counterclockwise pos.
							0.0		EXP pot. in extreme clockwise pos.
2. EXP GAIN ADJ	6	3	6	0.0	1000	-6.0			Adjust EXP pot. for this value. Do not disturb for remainder of tests.
3. LOAD TEST	6	3	0	+2.0	1000	+ 9.2	+10.8		
			4	+8.5	1000	+13.5	+16.5		
			15	0.0	1000	-26.5	-22.5		
			33	-0.5	1000	-53.0	-48.0		
4. FREQ RESP	6	3	6	0.0	100		- 9.5		
			6	0.0	200	- 9.0	- 6.0		
			4	-0.7	3000	- 8.1	- 5.9		
			4	-0.3	3500	-11.2	- 8.2		



EXPANDOR SUBASSEMBLY TESTS

SD 95118-02

J98703 TA