

SERVICING CENTER TESTS USING 5U (J98705U) TEST SET
J98703AM AND J98705AP SPECIAL SERVICES CHANNEL UNITS
N, O AND ON CARRIER SYSTEMS — OVER-ALL TEST

The VF subassembly and a carrier frequency subassembly comprise an over-all channel unit. The over-all unit is a 4-wire, noncompandored circuit used where data transmission, VF carrier telegraph or telephoto is involved, and consists of a VF and a CF subassembly.

The tests outlined herein are designed to check the characteristics of the over-all channel unit and to provide gain adjustment and equalization of the unit for test purposes.

APPARATUS:

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|-------------------------|-----------------------------------|
| 1—Vacuum Tube Voltmeter | 2—P2BP Cords |
| 1—Oscillator | 1—529C Filter (for J98705AP Unit) |
| 1—P2OD Cord | |

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 check plate voltages on 5U test set. <i>Requirement:</i> <table border="0" style="margin-left: 40px;"> <tr> <td>Filament</td> <td>38.5 volts</td> </tr> <tr> <td>Plate</td> <td>128-130 volts</td> </tr> </table>	Filament	38.5 volts	Plate	128-130 volts
Filament	38.5 volts				
Plate	128-130 volts				
4	Make tests as outlined in chart. Replace the 529A or 529B filter with the 529C test filter and set the XTAL OSC on the 5U test set to 184 kc when testing the J98705AP unit. <i>Notes:</i> 1. The individual subassemblies should be tested and adjusted before making any of these tests. 2. If adjustments are required to meet the requirements in this section, individual units should be rechecked using E34.035.02, .04, or .37 rather than changing adjustments.				

PURPOSE OF TEST	SWITCH POS.		ATT (DB)	CAL (DB)	OSC FREQ (CPS)	CHAN UNIT SETTING			TEST LIMITS (db)		IF NEC ADJUST	TS TEST IF REQ.	TEST CONDITIONS AND REMARKS
	A	B				SI	REC	R	MIN	MAX			
CHART A													
1. LOOPBACK AMP ADJUST	13	11								-21.5		LOOPAMP ADJ (ON 5U)	Make these tests when the VF sub-assembly is used with an ED-92904-01 carr. freq. subassembly (N carrier)
2. NOISE TEST	13	13	70	0	1000	N	CW			-28.0			
3. TRSG POT ADJ	13	13	0	-16.0	1000	N				+ 4.5*		TRSG POT	
4. REC POT ADJ	13	13	0	-16.0	1000	N				+10.0		REC POT	
CHART B													
1. LOOPBACK AMP ADJ	9	11								-21.0		LOOPAMP ADJ (ON 5U)	Make these tests when the VF sub-assembly is used with an ED-92604-01, G1 carr. freq. subassembly (0 carrier)
2. TRSG POT ADJ	9	3	0	-16.0	1000	0		CW		+ 8.0*		TRSG POT	
3. REC POT ADJ	9	3	0	-16.0	1000	0				+10.0		REC POT	

* Measured with VTVM from jack J5 to chassis ground.

