

**SERVICING CENTER TESTS USING 5U (J98705U) TEST SET**  
**J98703Y SCHEDULE A AND B PROGRAM REVERSING**  
**CHANNEL UNITS—N CARRIER SYSTEM**  
**OVER-ALL TESTS**

The program reversing unit, under control of a dc signal from the program reversing panel, controls the direction of transmission over the program channel. It consists of a plug-in switching subassembly containing two relays and a plug-in modified channel 5 carrier frequency subassembly. The tests outlined herein are designed to check the characteristics of both subassemblies comprising the program reversing channel unit.

**APPARATUS:**

- 1—Vacuum Tube Voltmeter
- 1—Volt-Ohm-Milliammeter
- 1—P20D Cord
- 1—P2BP Cord
- 1—W2EB Cord
- 1—Shorting Cord

STEP	PROCEDURE
1	Switches C and D on 5U test set on OFF position.
2	Set ATT on 5U test set on 0 db.
3	ON-OFF HOOK switch on 5U test set on OFF position except as indicated.
4	Connect reversing unit, and vacuum tube voltmeter to 5U test set as shown on associated sketch.
5	Adjust filaments and check plate voltage on 5U test set. <div style="margin-left: 40px;"><b>Requirement:</b> Filament 38.5 volts            Plate 128-130 volts</div>
6	Make test as outlined in chart.

PURPOSE OF TEST	SWITCH POS.		W2EB CORD IN REC JK	MEAS TST PT TO GND OR BETWEEN TST PTS	TEST LIMITS		TS TST	TEST CONDITIONS AND REMARKS
	A	B			MIN	MAX		
1. OSC OUTPUT	7	6	X	M2	+6.0 db			OSC pot. in extreme clockwise pos. See Note 3.
2. OSC OUTPUT ADJ	7	6	X	M2	-25.0 db			Adjust OSC pot. for this value. See Note 3.
3. LOOP AMP ADJ	11	11			-21.5 db			See Note 1. Adjust LOOP AMP ADJ pot. on 5U test set for this value. W2 EB cord must be removed from REC JK for this adjustment. See Note 3.
4. CARR INPUT	11	9	X	R1	-16.0 db	-11.0 db		Place ON-OFF hook switch on 5U test set on ON pos.
5. CARR INPUT ADJ	11	9	X	R1	-13.5 db			Place ON-OFF hook switch on 5U test set on ON pos. Adjust LOOP AMP ADJ pot. on 5U test set for this value. Place ON-OFF hook switch on OFF pos. after adjustment.
6. AMP DET OUTPUT	11	9		Across C10	2.5 DCV			See Note 2. Place SENS pot. in extreme clockwise pos. Meas. on 3V scale of the volt-ohm-milliammeter with the negative prod on term. 4 of the varistor, CR1. See Note 3.
7. AMP DET ADJ	11	9		Across C10	2.45 DCV			See Note 2. Adjust SENS pot. for this reading. After adjustment, check with an ohmmeter to be sure that "E" line is grounded at term. JB11. See Note 3.
8. AMP DET OUTPUT	11	9		Across C10		0.2 DCV		Release contacts 1 and 2 of K2. See Note 3.

Note 1: With a shorting cord place a ground on the rear (PB1) side of R51 for Test 3.

Caution: The power should be OFF while making this connection and care must be taken that the proper side of R51 is grounded. Remove before going to Test 4.

Note 2: For Tests 6 and 7 hold contacts 1 and 2 of SIG TRSG relay K2 in their operated position with a probe of nonconducting material. These contacts are located as shown on associated sketch.

Note 3: Place ON-OFF hook on OFF position.

