

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

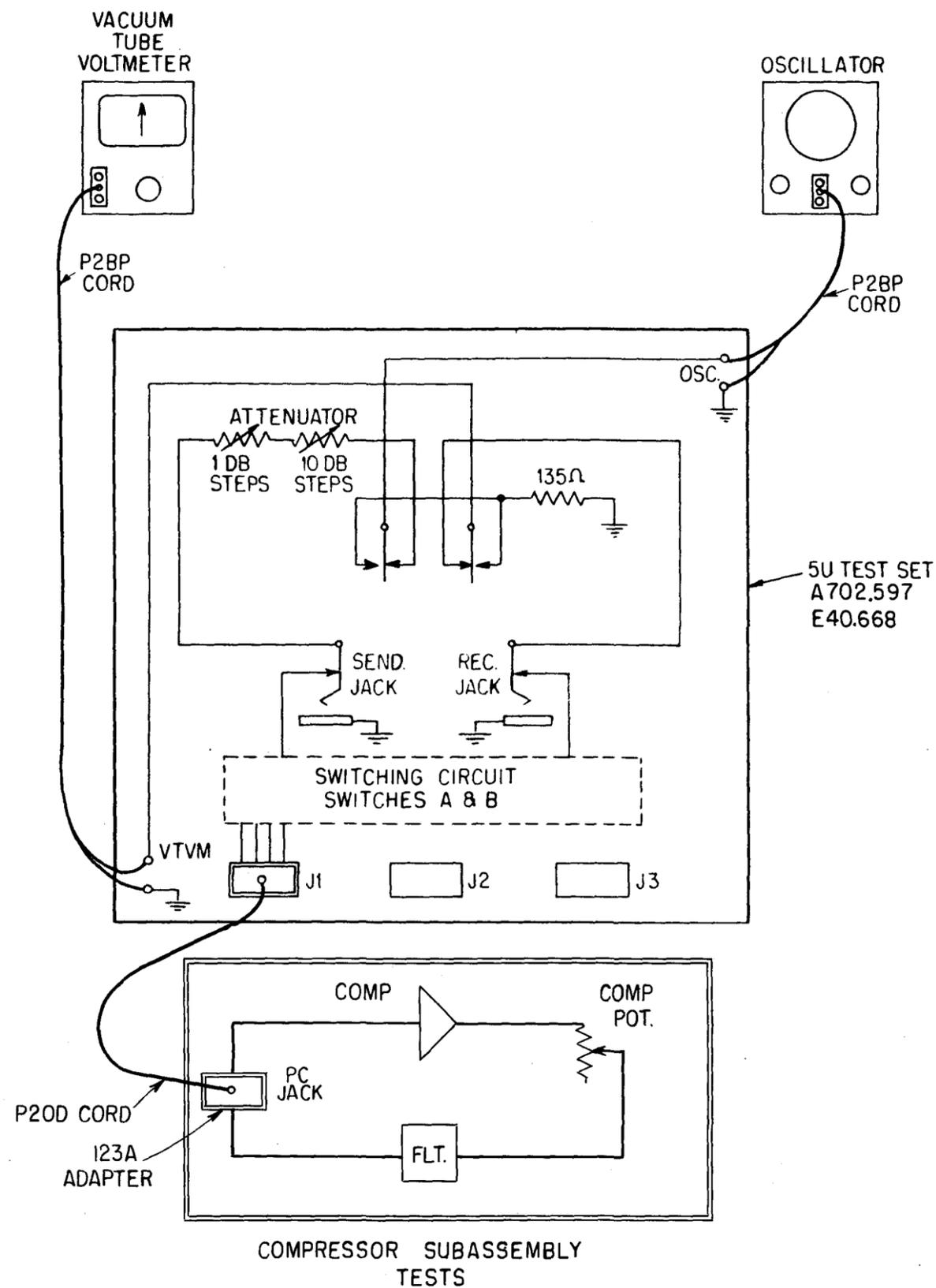
The compressor subassembly of the schedule C and D program channel unit is essentially the same as that used with type N, O and ON carrier message channel units except that the resistance hybrid has been removed, provisions have been made for an increased bandwidth and a higher signal level is delivered to the modulator. The tests outlined herein are designed to check the characteristics of the compressor and to provide gain adjustment of the unit for test purposes.

APPARATUS:

- 1—Vacuum Tube Voltmeter
- 1—Oscillator
- 1—123A Adapter
- 1—P20D Cord
- 2—P2BP Cords

| STEP | PROCEDURE |
|------|--|
| 1 | Switches C and D on 5U test set on OFF position. |
| 2 | Connect compressor 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. <p style="margin-left: 40px;">Requirement: Filament 38.5 volts Plate 128-130 volts</p> |
| 4 | Make tests as outlined in chart. |

| 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. NOISE TEST | 3 | 8 | REMOVE OSCILLATOR | | | | -34.0 | | COMP pot. in extreme clockwise position. |
| 2. COMP GAIN MARGIN | 3 | 8 | 32 | 0.0 | 1000 | + 1.0 | + 4.0 | | COMP pot. in extreme clockwise position. |
| | | | | | | - 2.4 | - 0.4 | | COMP pot. in extreme counterclockwise position. |
| 3. GAIN ADJ | 3 | 8 | 32 | 0.0 | 1000 | 0.0 | | | Adjust COMP pot. for this value. Do not disturb for remainder of tests. |
| 4. LOAD TEST | 3 | 8 | 11 | 0.0 | 1000 | + 9.9 | +11.1 | | |
| | | | 50 | 0.0 | | -10.5 | - 7.7 | | |
| | | | 70 | -7.0 | | -32.0 | -24.0 | | |
| 5. FREQ RESP | 3 | 8 | 32 | 0.0 | 100 | - 9.2 | - 2.4 | | |
| | | | | | 250 | - 1.0 | + 1.4 | | |
| | | | | | 3000 | + 1.0 | + 3.8 | | |
| | | | | | 3500 | + 3.8 | + 6.8 | | |



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