

**TYPE N1, O AND ON CARRIER TELEPHONE SYSTEMS – OVER-ALL CHANNEL LINE-UP  
SUMMARY CHARTS – LINE-UP AND MAINTENANCE  
N1 CARRIER – SCHEDULE A AND B PROGRAM CHANNEL UNIT (J98703W)**

This section consists of an over-all diagram of the channel unit and a chart giving the tests required for line-up and maintenance of the Schedule A and B Program Channel Unit.

**NOTES:**

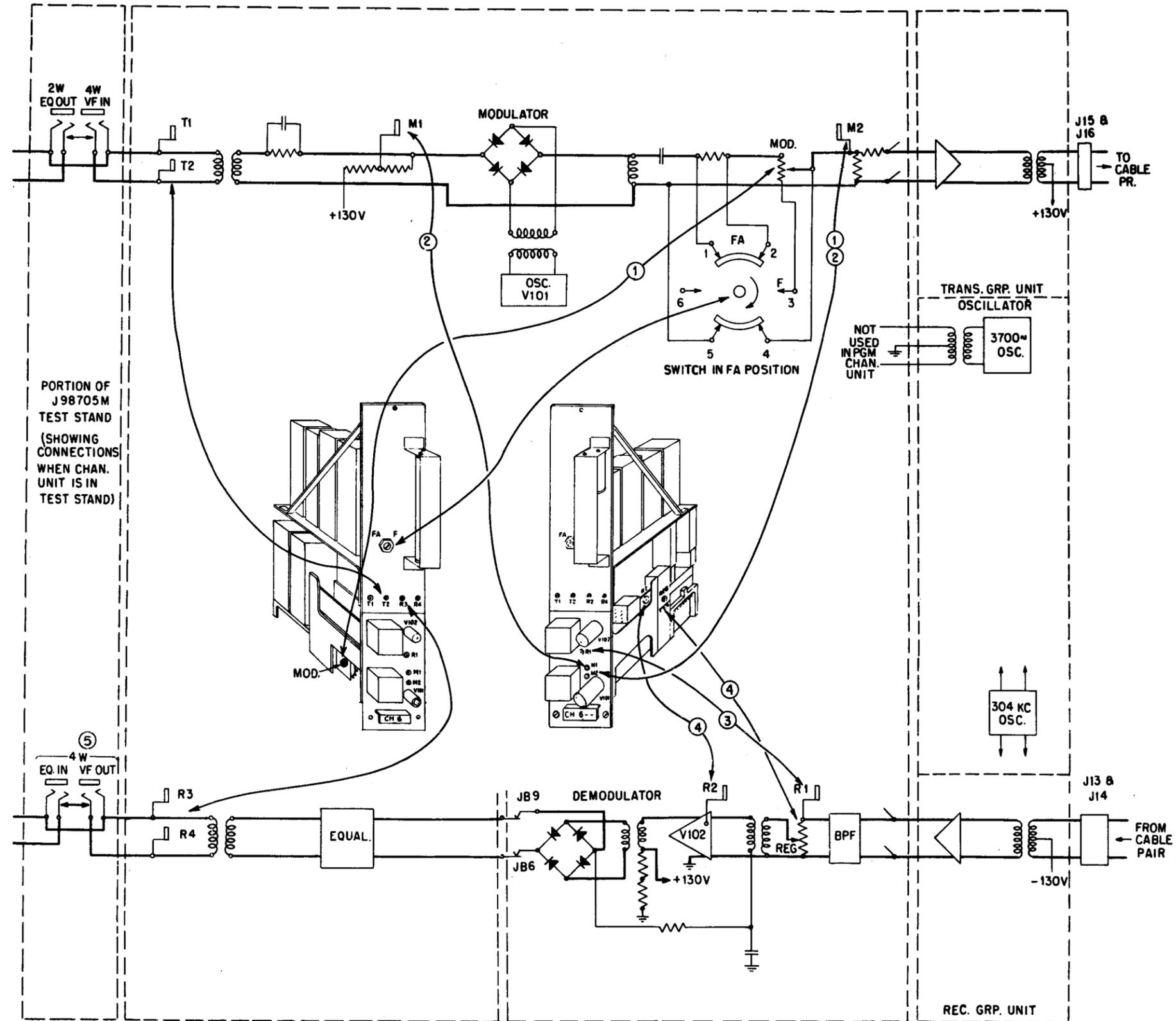
1. Complete the tests in numerical order.
2. All testing equipment must be accurately calibrated.
3. Set the switch (F, FA) on the program subassembly to F when the program channel unit is used in the older L0 or L1 terminals. Set the switch to FA for use in the newer L2 or L3 terminals. To distinguish between the different terminals refer to Section 362-011-500.

**APPARATUS:**

- 1 — Hewlett-Packard, 400-type Vacuum Tube Voltmeter (VTVM)
- 1 — W2DW Cord (used to connect the VTVM to test points)
- 1 — Channel Unit Test Stand (J98705M)
- 1 — KS-14510 Volt-ohm-milliammeter (VOM), or equivalent 20,000 ohms per volt
- 1 — Transmission Measuring Set (TMS) 21A, 40B, or equivalent 600 ohm
- 1 — P19A Cord (used with channel test stand)

LINE-UP AND MAINTENANCE TESTS FOR N1 CARRIER SCHEDULE A & B PROGRAM CHANNEL (J98703W)

TEST	PURPOSE OF TEST	TEST STAND REQ	MEAS. EQUIP. REQUIRED		MEASURE TEST POINT TO GRD. OR BETWEEN TEST POINTS	REQUIRED VALUE		ADJUST	TEST CONDITIONS AND REMARKS	SECTION REFERENCE
			TESTING END	DISTANT END		TEST	READJUST			
1	Channel Carrier Output	No	VTVM	—	M2	-14.5 ± 3.5 db	—	—	Switch to F	362-320-510
						-15.0 ± 2.0 db	15.0 db	MOD	Switch to FA	
2	Channel Carrier Leak	No	VTVM	—	M2	- 33.0 db or Less	—	—	Switch to F	362-320-510
						- 36.0 db or Less	—	—	Switch to FA	
3	Received Channel Carrier	No	VTVM	—	R1	—	—	—	<i>Line-Up:</i> -16 ± 7.5 db <i>Maintenance:</i> Recorded Value ± 5.0 db.	362-030-501
4	Channel Regulator	Yes	VOM	—	R2 Jack to +130V Jack to Test Stand	3.0 ± 0.4 Volts	3.0 Volts	REG	<i>Caution: Approximately 125 volts on R2 jack; insert test cord in R2 jack last.</i>	362-030-501
5	Channel VF Output and Frequency Characteristics	No	TMS	21A TMS Oscillator or equivalent	DEMOD OUT	1000~ -5.0 ± 1.7 dbm 100~ 1000~ Reading -0.25 ± 0.6 dbm 5000~ 1000~ Reading -1.3 ± 0.6 dbm	—	—	<i>Distant End:</i> Send the 1000~, 100~, and 5000~ using -22.0 dbm input in MOD IN jack.	362-320-511



PORTION OF J98705M TEST STAND (SHOWING CONNECTIONS WHEN CHAN. UNIT IS IN TEST STAND)

SCHEDULE A & B PROGRAM CHANNEL UNIT

LINE-UP AND MAINTENANCE TESTS FOR N1 CARRIER SCHEDULE A AND B PROGRAM CHANNEL UNIT (J98703W)