

EQUIPMENT TEST LIST
LMX-1
ANALOG MULTIPLEX TERMINAL EQUIPMENT

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4.14 INTERMEDIATE FREQ CONVERTER	4	1.01 This practice provides an index and information access system to locate the standard tests applicable to equipment listed in the preceding table of contents. Test classification and frequency of periodic routine are also provided.	
4.15 520-KHZ HARMONIC GENERATOR	4	1.02 This Equipment TEST List (ETL) is reissued to incorporate changes which are indicated by an arrow to the left of each line which has been changed.	
4.16 2.080-MHZ FREQUENCY SUPPLY	4	1.03 Comments on this practice should be made by following the instructions in AT&T Practice 000-010-015.	
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1.04 Routine test information is arranged in the following order from left to right: Practice number, issue/addendum, test letter or paragraph number, test title, test class, frequency, and the last space is for a locally assigned job number.

1.05 Practice 010-300-011 provides Equipment Test List instructions.

4.0 LMX-1

4.1 LMX-1; TRANSMITTING CKTS

SELECT ONLY ONE CATEGORY

COVERED BY AUTO TEST PROGRAM

356-011-501	(2/0)	1	J68857W 104.08-KHZ SUPPLY	MW 6M	-----
		2	J68857S L1 104.08-KHZ PILOT SUPPLY	MW 6M	-----
		3	J68857S L3 104.08-KHZ PILOT SUPPLY	MW 6M	-----

NOT COVERED BY AUTO TEST PROGRAM

356-011-501	(2/0)	1	J68857W 104.08-KHZ PILOT SUPPLY	MW 6M	-----
		2	J68857S L1 104.08-KHZ PILOT SUPPLY	MW 6M	-----
		3	J68857S L1 104.08-KHZ PILOT SUPPLY	MW 6M	-----
356-011-503	(1/0)		104.08-KHZ IN-SERVICE ADJUSTMENT	MW 6M	-----
356-105-501	(2/0)		GE MOD IN-SERVICE FAIN TESTS	MW 6M	-----

TROUBLE TESTS

GROUP MODULATOR

356-105-502	(1/0)		OUT-OF-SERVICE GAIN TEST	TT	-----
356-105-503	(1/0)		INTERMEDIATE AMPLIFIER GAIN TEST	TT	-----
356-105-504	(1/0)		TURNOVER TEST	TT	-----

SUPERGROUP MODULATOR

356-110-502	(1/0)		OUT-OF-SERVICE LOSS TESTS	TT	-----
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4.2 LMX-1; RECEIVING CIRCUITS

SELECT ONLY ONE CATEGORY

COVERED BY AUTO TEST PROGRAM

356-012-504	(1/0)		GROUP PILOT MEAS CKT CALIBRATION	MW 6M	-----
356-012-505	(3/0)		SUPERGROUP PILOT MEAS CKT CALIBRATION	MW 6M	-----

NOT COVERED BY AUTO TEST PROGRAM

356-012-504	(1/0)		GROUP PILOT MEAS CKT CALIBRATION	MW 6M	-----
356-012-505	(3/0)		SUPERGROUP PILOT MEAS CKT CALIBRATION	MW 6M	-----
356-115-501	(1/0)		SG DEMOD IN-SERVICE LOSS TEST	MW 6M	-----
356-120-501	(2/0)		GR DEMOD IN-SERVICE GAIN TEST	MW 6M	-----

TROUBLE TESTS

SUPERGROUP DEMODULATOR

356-115-502	(1/0)		OUT-OF-SERVICE GAIN TEST	TT	-----
356-115-503	(3/0)		C2C SG REGULATED AMPLIFIER TESTS	TT	-----
356-115-504	(1/0)		TURNOVER TESTS	TT	-----

GROUP DEMODULATOR

356-120-502	(1/0)		OUT-OF-SERVICE GAIN TESTS	TT	-----
356-120-503	(1/0)		AUXILIARY AMPLIFIER GAIN TEST	TT	-----
356-120-504	(1/0)		TURNOVER TESTS	TT	-----

4.3 LMX-1; TERMINAL CIRCUITS

TROUBLE TESTS

	365-125-501	(1/0)		TERMINAL COMPENSATING NETWORK	TT	-----
4.4	LMS-1; CARRIER & PILOT SUPPLY J68775					
	FOR ALL UNITS					
◆	365-150-501	(2/0)	(1)	L1 - 9 AND 10-VOLT OPERATION - TUBE TEST	MW 6M	-----
◆			(2)	L3 - 9 AND 10-VOLT OPERATION - TUBE TST	MW 6M	-----
			(3)	PRIMARY FREQ CONV CKT - TUBE TST	MW 6M	-----
	TROUBLE TESTS					
	365-150-501	(2/0)		ELECTRON TUBE TESTS	TT	-----
	365-150-502	(1/0)		MEASMT OF VOLTAGE DELIVERED TO B RELAY	TT	-----
4.5	LMX-1; PRIMARY FREQ SUPPLY J68775					
	FOR ALL UNITS					
◆	356-151-503	(2/0)		4-KHZ OUTPUT TEST	MW 12M	-----
	TROUBLE TESTS					
	356-151-501	(1/0)		128-KHZ OSC CKT TESTS	TT	-----
	356-151-502	(2/0)		64-KHZ OUTPUT TESTS	TT	-----
	356-151-503	(2/0)		4-KHZ OUTPUT TEST	TT	-----
	356-151-504	(1/0)		4-KHZ DIST CKT TESTS	TT	-----
4.6	LMX-1; 4-KHZ HARMONIC GENERATOR					
	FOR ALL UNITS					
	356-152-501	(2/0)	1	OUTPUT MEAS AT TST ODD & TST EVEN JACKS	MW 12M	-----
	TROUBLE TESTS					
	356-152-501	(2/0)	2	TROUBLE LOCATION PROCEDURE	TT	-----
4.7	LMX-1; CHANNEL CARRIER DISTRIBUTION BUS					
	FOR ALL UNITS					
	356-153-501	(1/0)		EQL OF PILOT FREQ	MW 12M	-----
	356-153-502	(2/0)		OUTPUT POWER TESTS	MW 12M	-----
4.8	LMX-1; GROUP CARRIER DISTRIBUTION					
	FOR ALL UNITS					
	356-154-502	(2/0)	1	AMPL OUTPUT POWER MEASMT AT BRDG JACKS	MW 12M	-----
	TROUBLE TESTS					
	356-154-501	(2/0)		EQL OF FILTER OUTPUTS	TT	-----
	356-154-502	(2/0)	2	AMPL OUTPUT MEASMT AT BRDG JACKS	TT	-----
	356-154-503	(1/0)		BUS OUTPUT POWER	TT	-----
4.9	LMX-1; SUPERGROUP CARRIER SUPPLY					
	FOR ALL UNITS					
	356-155-501	(1/0)		124-KHZ FILTER TESTS	MW 12M	-----
	356-155-502	(2/0)		124-KHZ HARM GEN GETS	MW 12M	-----
	356-155-503	(3/0)	1	DIST AMPL IN-SERVICE TESTS	MW 12M	-----
	TROUBLE TESTS					
	356-155-503	(3/0)	2	DIST AMPL OUT-OF-SERVICE TST & ADJMT	TT	-----
	356-155-504	(1/0)		DIST BUS POWER	TT	-----

4.10 LMX-1; 88-KHZ PROGRAM CARRIER

FOR ALL UNITS

356-156-501	(1/0)	1	PRELIMINARY TESTS	MW 12M	-----
		2	AMPLIFIER TUNING	MW 12M	-----
		3	ALARM TEST	MW 12M	-----

4.11 LMX-1; STBLZD 64-KHZ PILOT SUP J68857X

FOR ALL UNITS

356-160-501	(1/0)		IN-SERVICE TESTS	MW 12M	-----
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4.12 LMX-1; L1 LINE PILOT FREQUENCY

FOR ALL UNITS

356-161-501	(2/0)	1	2064 & 3096 KHZ PILOT FREQ SUPPLY INPUTS	MW 12M	-----
		2	MICROWAVE RADIO PILOT	MW 12M	-----
		3	COMBINED PILOTS FOR L1 CARRIER	MW 12M	-----

4.13 LMX-1; PRIMARY FREQ CONVERTER

FOR ALL UNITS

356-165-501	(4/0)	1	MEAS OF 4-KHZ & 128-KHZ INPUT SIGNALS	MW 12M	-----
		2	216, 520, & 556 KHZ AMPL OUTPUTS	MW 12M	-----

4.14 LMX-1; INTERMEDIATE FREQ CONVERTER

FOR ALL UNITS

356-166-501	(2/0)		516-KHZ OUTPUT TESTS	MW 12M	-----
356-166-502	(2/0)		77-KHZ & 139-KHZ OUTPUT TESTS	MW 12M	-----
356-166-503	(1/0)		1211-KHZ OUTPUT TEST	MW 12M	-----

4.15 LMX-1; 520-KHZ HARMONIC GENERATOR

FOR ALL UNITS

356-167-501	(3/0)		520-KHZ OUTPUT TEST	MW 12M	-----
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4.16 LMX-1; 2.080-MHZ FREQUENCY SUPPLY

FOR ALL UNITS

356-169-501	(1/0)		MEASUREMENT AT 2080-KC TEST JACK	MW 12M	-----
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4.17 LMX-1; CARRIER & PILOT TRANSFER & CONT

FOR ALL UNITS

356-170-501	(2/0)	1	REGULAR GEN FAIL & TOTAL GEN FAIL	MW 12M	-----
		2	EMERGENCY GEN FAIL	MW 12M	-----

4.18 LMX-1; PRIMARY CARRIER DISTRIBUTION

FOR ALL UNITS

356-171-501	(3/0)		OUTPUT POWER & METER RELAY TESTS	MW 12M	-----
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4.19 LMX-1; 24V 4C-DC SUPPLY & FUSE DISTN

TROUBLE TESTS

356-173-501	(1/0)		DISTRIBUTION CKT TEST	TT	-----
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4.20 LMX-1; PILOT GENERATOR

FOR ALL UNITS

356-174-501	(1/2)		COMB HAR GEN & FLAT CKT TESTS	MW 12M	-----
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356-174-502 (2/0)	OUTPUT PWR, RELAY, & AMPL STAB TESTS	MW 12M	-----
4.21 LMX-1; PILOT GENERATOR			
FOR ALL UNITS			
356-175-501 (2/0)	REG & STANDBY PILOT GEN OUTPUT TESTS	MW 12M	-----
4.22 LMX-1; EMER PILOT ALARM CONTROL CKT			
TROUBLE TESTS			
356-176-501 (1/0)	TESTS	TT	-----
4.23 LMX-1; PILOT DISTRIBUTION			
FOR ALL UNITS			
356-177-502 (1/0)	MEAS OF DC CUR & ADJ OF WKG GEN	MW 12M	-----
TROUBLE TESTS			
356-177-501 (1/0)	OUTPUT POWER CHECK	TT	-----
4.24 LMX-1; PILOT COMBG NOT IN AUTO TST PGM			
FOR ALL UNITS			
356-179-501 (2/0)	6-FREQ OR 2-FREQ COMB CKT OUTPUT	MW 12M	-----
4.25 LMX-1; EMERGENCY PILOT SUPPLY			
FOR ALL UNITS			
356-180-501 (1/0)	TESTS	MW 12M	-----
356-180-502 (1/0)	EMER PILOT GEN CKT TESTS	MW 12M	-----
4.26 LMX-1; 64-KHZ SYNC FREQ AMPL			
FOR ALL UNITS			
356-181-501 (1/0)	1 AMPL GAIN MEAS	MW 12M	-----
	2 OUTPUT POWER ADJ	MW 12M	-----
4.27 LMX-1; 308-KHZ SYNC FREQ AMPL			
FOR ALL UNITS			
356-182-501 (1/0)	OUTPUT TESTS	MW 12M	-----
4.28 LMX-1; 64-KHZ FREQUENCY COMPARATOR			
FOR ALL UNITS			
356-184-501 (1/0)	BEAT FREQUENCY TEST	MW 12M	-----
356-184-502 (1/0)	END-OF-RANGE ALARM TEST	MW 12M	-----
4.29 LMX-1; 308-KHZ FREQUENCY COMPARATOR			
FOR ALL UNITS			
356-184-501 (1/0)	BEAT FREQUENCY TEST	MW 12M	-----
	END-OF-RANGE ALARM TEST	MW 12M	-----
4.30 LMX-1; 64-KHZ & 308-KHZ GENERATOR			
FOR ALL UNITS			
356-185-501 (1/0)	OUTPUT POWER TESTS	MW 12M	-----
4.31 LMX-1; 4139-KHZ REF FREQ SUPPLY			
TROUBLE TESTS			
356-186-501 (1/0)	OUTPUT TESTS	TT	-----
4.32 LMX-1; IDLE INDICATOR RELAY CKT & LAMPS			

TROUBLE TESTS

356-187-501 (1/0)

OPERATIONAL CHECK

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