

EQUIPMENT TEST LIST
AMPLIFIERS

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1.8 143-TYPE	3	1.01 This section 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.	
1.9 KS-16508 L1 & L2	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.	
1.10 KS-16547 L1	4	1.03 Comments on this section should be made by following the instructions in Bell System Practices (BSP), Section 000-010-015.	
1.11 KS-16575 L1	4	1.04 Routine test information is arranged in the following order from left to right: Section number, issue/addendum, test letter or paragraph number, test title, test class, frequency, and the last space is for a locally assigned job number.	
1.12 KS-16608 L1 & KS-16610 L1	4	1.05 Section 010-300-011 provides Equipment Test List instructions.	
1.13 KS-16617 L1	5		
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NOTICE

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SECTION 024-001-011

1.0 AMPLIFIERS

1.1 AMPLIFIERS; 94D

FOR ALL UNITS

◆	024-100-100	(2/0)	5.04	(5.04 - 5.06)	TEST ELECTRON TUBES	MW 3M	-----
◆			5.15	(5.15 - 5.18)	CHECK ELECTROLYTIC CONDENSERS	MW 12M	-----

TROUBLE TESTS

	024-100-100	(2/0)	5.01	(5.01 - 5.03)	POWER TRNSF VOLTAGES	TT	-----
			5.07	(5.07 - 5.10)	STEP-GAIN CHARACTERISTIC	TT	-----
			5.11	(5.11 - 5.12)	GAIN-FREQUENCY CHARACTERISTIC	TT	-----
			5.13	(5.13 - 5.14)	OUTPUT NOISE	TT	-----

1.2 AMPLIFIERS; 106A

FOR ALL UNITS

◆	024-102-500	(1/1)	2.04	(2.04 - 2.06)	TEST ELECTRON TUBES	MW 6M	-----
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TROUBLE TESTS

	024-102-500	(1/1)	2.01	(2.01 - 2.03)	PRIMARY PWR VOLTAGE MEASMT & ADJMT	TT	-----
			2.07	(2.07 - 2.14)	GAIN TESTS	TT	-----
			2.15	(2.15 - 2.17)	GAIN-FREQ TEST	TT	-----
			2.18	(2.18 - 2.20)	NOISE TESTS	TT	-----
			2.21	(2.21 - 2.24)	MEASURE CATHODE CURRENT	TT	-----
			2.25		PRELIMINARY TROUBLE TESTS	TT	-----
			2.26	(2.26 - 2.30)	OPRG VOLTAGE MEASMT	TT	-----
			2.31	(2.31 - 2.32)	DISTORTION TROUBLES	TT	-----

1.3 AMPLIFIERS; 118A

FOR ALL UNITS

◆	024-103-500	(1/1)	2.08	(2.08 - 2.09)	GAIN TESTS	MW 6M	-----
◆			2.10		GAIN FREQUENCY TESTS	MW 6M	-----
◆			2.11		NOISE TESTS	MW 6M	-----
◆			3.01		CHECK VACUUM TUBES	MW 2M	-----

TROUBLE TESTS

	024-103-500	(1/1)	2.01	(2.01 - 2.04)	PRIMARY VOLTAGE MEASMT	TT	-----
			2.05	(2.05 - 2.07)	PWR OUTPUT ADJMT	TT	-----
			2.12		ELECTROLYTIC CONDENSERS	TT	-----

1.4 AMPLIFIERS; A-120 (MCINTOSH)

FOR ALL UNITS

◆	024-121-500	(2/0)	2.01	(2.01 - 2.03)	PRIMARY PWR VOLTAGE MEASMT	MW 12M	-----
◆			2.04	(2.04 - 2.06)	TEST ELECTRON TUBES	MW 3M	-----
◆			2.07	(2.07 - 2.12)	GAIN & GAIN-FREQUENCY	MW 3M	-----
◆			2.14	(2.14 - 2.16)	NOISE TEST	MW 3M	-----

TROUBLE TESTS

	024-121-500	(2/0)	2.13		MAXIMUM OUTPUT TESTS	TT	-----
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024-121-500 (2/0)	2.17	PRELIMINARY TROUBLE LOCATING TESTS	TT	-----
	2.18	(2.18 - 2.20) OPRG VOLTAGE MEASMT	TT	-----
	2.21	DISTORTION TROUBLE	TT	-----
	2.22	(2.22 - 2.23) ELECTROLYTIC CAPACITOR TESTING & RPLCMT	TT	-----
1.5 AMPLIFIERS; 124-TYPE				
FOR ALL UNITS				
◆ 024-104-500 (2/3)	2.04	TEST VACUUM TUBES	MW 6M	-----
◆	2.06	(2.06 - 2.12) GAIN TESTS	MW 6M	-----
◆	2.13	(2.13 - 2.16) GAIN FREQUENCY TESTS	MW 6M	-----
◆	2.17	NOISE TEST	MW 6M	-----
TROUBLE TESTS				
024-104-500 (2/3)	2.01	(2.01 - 2.02) PRIMARY VOLTAGE MEASMT	TT	-----
	2.03	PWR OUTPUT ADJMT	TT	-----
	2.05	OPRG CURRENTS AND VOLTAGES	TT	-----
	2.19	(2.19 - 2.20) ELECTROLYTIC CONDENSERS	TT	-----
1.6 AMPLIFIERS; 140-TYPE				
FOR ALL UNITS				
◆ 024-105-500 (2/0)	2.04	(2.04 - 2.06) TEST ELECTRON TUBES	MW 6M	-----
◆	2.07	(2.07 - 2.12) GAIN & GAIN-FREQUENCY TESTS	MW 6M	-----
◆	2.13	(2.13 - 2.15) NOISE TEST	MW 6M	-----
TROUBLE TESTS				
024-105-500 (2/0)	2.01	(2.01 - 2.03) PRIMARY VOLTAGE MEASMT	TT	-----
	2.16	PRELIMINARY TROUBLE LOCATING TESTS	TT	-----
	2.17	(2.17 - 2.22) OPRG VOLTAGE MEASMT	TT	-----
	2.23	ELECTROLYTIC CAPACITOR TEST	TT	-----
1.7 AMPLIFIERS; 142-TYPE				
FOR ALL UNITS				
◆ 024-106-500 (1/1)	2.04	(2.04 - 2.06) TEST ELECTRON TUBES	MW 6M	-----
TROUBLE TESTS				
024-106-500 (1/1)	2.01	(2.01 - 2.03) PRIMARY PWR VOLTAGE MEASMT	TT	-----
	2.07	(2.07 - 2.12) GAIN AND GAIN-FREQUENCY TESTS	TT	-----
	2.13	(2.13 - 2.15) NOISE TEST	TT	-----
	2.16	PRELIMINARY TROUBLE LOCATING TESTS	TT	-----
	2.17	(2.17 - 2.21) OPRG VOLTAGE MEASMT	TT	-----
	2.22	ELECTROLYTIC CAPACITOR TEST	TT	-----
1.8 AMPLIFIERS; 143-TYPE				
FOR ALL UNITS				
◆ 024-107-500 (2/0)	2.05	(2.05 - 2.07) TEST ELECTRON TUBES	MW 6M	-----
◆	2.25	ELECTRON TUBE V11 REPLCMT	MW 3M	-----
TROUBLE TESTS				

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024-107-500 (2/0)	2.01	(2.01 - 2.04) PRIMARY PWR VOLTAGE MEASMT & ADJMT	TT	-----
	2.08	(2.08 - 2.15) GAIN & GAIN-FREQUENCY TEST	TT	-----
	2.16	(2.16 - 2.18) NOISE TEST	TT	-----
	2.19	(2.19 - 2.21) PRELIMINARY TROUBLE LOCATING TESTS	TT	-----
	2.22	(2.22 - 2.27) OPRG VOLTAGE MEASMT	TT	-----
	2.28	(2.28 - 2.29) ELECTROLYTIC CAPACITOR TEST	TT	-----

1.9 AMPLIFIERS; KS-16508 L1 & L2

FOR ALL UNITS

024-150-501 (1/1)	3.01	AC LINE VOLTAGE CHECK	MW 6M	-----
	4.01	TEST ELECTRON TUBES	MW 3M	-----
	5.01	REPRODUCE CHANNEL GAIN-FREQUENCY TEST	MW 3M	-----
	5.02	REPRODUCE CHANNEL DISTORTION TEST	MW 3M	-----
	5.03	REPRODUCE CHANNEL NOISE TEST	MW 3M	-----
	6.01	RECORD CHANNEL GAIN-FREQUENCY TEST	MW 3M	-----
	7.01	CHECK VOICE-OPERATED ALARM CKT ADJMT	MW 3M	-----

1.10 AMPLIFIERS; KS-16547 L1

FOR ALL UNITS

024-150-502 (1/0)	3.01	AC LINE VOLTAGE CHECK	MW 6M	-----
	4.01	TEST ELECTRON TUBES	MW 3M	-----
	5.01	GAIN-FREQUENCY TEST	MW 3M	-----
	6.01	NOISE TEST	MW 3M	-----
	7.01	DISTORTION TEST	MW 3M	-----

1.11 AMPLIFIERS; KS-16575 L1

FOR ALL UNITS

024-120-500 (1/0)	2.01	(2.01 - 2.03) PRIMARY PWR VOLTAGE MEASMT	MW 6M	-----
	2.04	(2.04 - 2.06) TEST ELECTRON TUBES	MW 3M	-----
	2.07	(2.07 - 2.12) GAIN & GAIN-FREQUENCY TESTS	MW 3M	-----
	2.13	(2.13 - 2.15) NOISE TEST	MW 3M	-----
	2.16	(2.16 - 2.18) MAXIMUM OUTPUT TESTS	MW 3M	-----

TROUBLE TESTS

024-120-500 (1/0)	3.03	(3.03 - 3.06) OPRG VOLTAGE MEASMT	TT	-----
	3.07	RESISTANCE MEASMT	TT	-----
	3.08	DISTORTION TROUBLE	TT	-----
	3.09	(3.09 - 3.10) ELECTROLYTIC CAPACITOR TESTING & RPLCMT	TT	-----

1.12 AMPLIFIERS; KS-16608 L1 & KS-16610 L1

FOR ALL UNITS

024-150-503 (2/0)	3.01	AC LINE VOLTAGE CHECK	MW 6M	-----
	4.01	TEST ELECTRON TUBES	MW 3M	-----
	5.01	(5.01 - 5.02) GAIN-FREQUENCY TEST	MW 3M	-----

◆	024-150-503 (2/0)	6.01	NOISE TEST	MW 3M	-----
◆		7.01	DISTORTION TEST	MW 3M	-----
◆		8.01	LIMITER TEST	MW 3M	-----
1.13 AMPLIFIERS; KS-16617 L1					
FOR ALL UNITS					
◆	024-150-504 (1/0)	3.01	(3.01 - 3.02) AC LINE VOLTAGE CHECK	MW 6M	-----
◆		4.01	TEST ELECTRON TUBES	MW 3M	-----
◆		7.01	CHECK VOICE-OPERATED RELAY CKT ADJMT	MW 3M	-----
OPTIONAL FEATURES					
HIGH-LEVEL CHANNEL					
◆	024-150-504 (1/0)	5.01	GAIN-FREQUENCY TEST	MW 3M	-----
◆		5.02	NOISE TEST	MW 3M	-----
◆		5.03	DISTORTION TEST	MW 3M	-----
LOW-LEVEL CHANNEL					
◆	024-150-504 (1/0)	6.01	GAIN-FREQUENCY TEST	MW 3M	-----
◆		6.02	LIMITER TEST	MW 3M	-----
◆		6.03	NOISE TEST	MW 3M	-----
1.14 AMPLIFIERS; KS-16622 L1					
FOR ALL UNITS					
◆	024-125-500 (3/0)	3.01	AC LINE VOLTAGE CHECK	MW 6M	-----
◆		4.01	TEST ELECTRON TUBES	MW 3M	-----
◆		5.01	(5.01 - 5.03) GAIN-FREQUENCY TESTS	MW 3M	-----
◆		6.01	NOISE TEST	MW 3M	-----
◆		7.01	DISTORTION TEST	MW 3M	-----
1.15 AMPLIFIERS; KS-16740 L2 (ALTEC 437B)					
FOR ALL UNITS					
◆	024-130-500 (2/0)	3.01	TEST ELECTRON TUBES	MW 3M	-----
◆		4.01	GAIN-FREQUENCY TESTS	MW 3M	-----
◆		5.01	NOISE TEST	MW 3M	-----
◆		6.01	DISTORTION TEST	MW 3M	-----
1.16 AMPLIFIERS; KS-19602 L1					
FOR ALL UNITS					
◆	024-178-500 (1/1)	5.01	TEST ELECTRON TUBES	MW 3M	-----
◆		6.01	(6.01 - 6.02) GAIN-FREQUENCY TEST	MW 3M	-----
◆		7.01	NOISE TEST	MW 3M	-----
◆		8.01	DISTORTION TEST	MW 3M	-----
1.17 AMPLIFIERS; KS-19739 L1					
FOR ALL UNITS					
◆	024-182-500 (3/0)	5.01	GAIN-FREQUENCY TEST	MW 3M	-----
◆		6.01	PWR OUTPUT TEST	MW 3M	-----
◆		7.01	OUTPUT REGULATION TEST	MW 3M	-----

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♦	024-182-500 (3/0)	8.01	NOISE TEST	MW 3M	-----
	1.18 AMPLIFIERS; KS-20425 L1, L2				
	FOR ALL UNITS				
♦	024-122-500 (3/0)	3.01	GAIN-FREQUENCY TEST	MW 12M	-----
♦		4.01	NOISE TEST	MW 12M	-----
	TROUBLE TESTS				
	024-122-500 (3/0)	5.01	EQUALIZATION	TT	-----
	1.19 AMPLIFIERS; KS-16754 L1, L2, L3 & L4				
	TROUBLE TESTS				
	024-176-200 (6/1)	7.01	(7.01 - 7.06) TEST & ADJMTS	TT	-----
		8.01	(8.01 - 8.03) MAINTENANCE	TT	-----
	1.20 AMPLIFIERS; KS-16831 L1, L2 & L3				
	TROUBLE TESTS				
	024-175-500 (4/0)	3.01	(3.01 - 3.05) GAIN FREQUENCY TEST	TT	-----
		4.01	(4.01 - 4.03) NOISE TEST	TT	-----
	1.21 AMPLIFIERS; KS-20159 L1, L2				
	TROUBLE TESTS				
	024-175-510 (2/0)	3.01	GAIN-FREQUENCY TEST	TT	-----
		4.01	NOISE TEST	TT	-----
		5.00	EQUALIZATION	TT	-----
		6.00	EFFECTS OF EXTERNAL COMPONENTS	TT	-----
	1.22 AMPLIFIERS; KS-19219 L1				
	TROUBLE TESTS				
	024-177-500 (2/0)	3.02	REPRODUCE CHANNEL TEST	TT	-----
		3.03	RECORD CHANNEL TEST	TT	-----
		3.04	BIAS & ERASE OSCILLATOR TEST	TT	-----
	1.23 AMPLIFIERS; KS-19601 L1				
	TROUBLE TESTS				
	024-179-500 (1/0)	5.01	SIDETONE SUPPRESSION CKT TEST	TT	-----
	HIGH-LEVEL CHANNEL				
	024-179-500 (1/0)	3.01	GAIN-FREQUENCY TEST	TT	-----
		3.02	NOISE TEST	TT	-----
		3.03	DISTORTION TEST	TT	-----
	LOW-LEVEL CHANNEL				
	024-179-500 (1/0)	4.01	GAIN-FREQUENCY TEST	TT	-----
		4.02	NOISE TEST	TT	-----
	1.24 AMPLIFIERS; KS-20449 L1				
	TROUBLE TESTS				
	024-174-500 (3/0)	4.01	GAIN-FREQUENCY TEST	TT	-----
		5.01	PWR OUTPUT TEST	TT	-----
		6.01	AGC COMPRESSION RANGE TEST	TT	-----

024-174-500 (3/0)	7.01	NOISE TEST	TT	-----
1.25 AMPLIFIERS; SD-95396-01				
TROUBLE TESTS				
024-109-500 (2/0)	4.00	(A)NONOPERATE PAD CURRENTS	TT	-----
	4.00	(B)TRANSMITTING GAIN	TT	-----
	4.00	(C)RECEIVING GAIN	TT	-----
	4.00	(D)SIDETONE LOSS	TT	-----
	4.00	(E)SENSITIVITY	TT	-----
	4.00	(F)OPERATE PAD CURRENTS	TT	-----
	4.00	(G)LISTENING TEST	TT	-----