

## **KS-SPECIFICATION—SPEECH AMPLIFIERS**

### **GENERAL INFORMATION**

#### **1. GENERAL**

**1.01** This section provides general information on KS-Specification Amplifiers listed under the 024-100 division of plant practices.

**1.02** This section is reissued to add information on the KS-20159, KS-20425, and KS-20449 Amplifiers and to delete reference to canceled AA Sections.

**1.03** Reference information in this section concerning KS-Specification program amplifiers and amplifiers for wired music distribution systems was formerly included in canceled Section AB48.153.0.

**1.04** Certain KS-Specification Amplifiers consist of one or more basic units which are also

designated as KS-Specification Amplifiers. Attached Table A includes this information.

#### **2. AMPLIFIER REPLACEMENTS**

**2.01** Situations will arise where it may be necessary to replace an amplifier because it is in trouble or can no longer be maintained in satisfactory operating condition. Table A may also be used to determine the current KS-Specification Amplifier that may be used as a replacement for earlier vintages of equipment.

#### **3. AUXILIARY KS-SPECIFICATION SPEECH EQUIPMENT**

**3.01** Table B lists references to KS-Specification speech equipment which is used in providing various speech amplifying arrangements where loudspeakers, handsets, or transformers are required.

TABLE A

AMPLIFIER	INITIAL USE	TYPE	POWER OUTPUT	BASIC UNITS	PRACTICES			NOTES
					GENERAL DESCRIPTION	MAINTENANCE ROUTINES	OPERATION AND TESTS	
KS-16508 L2	5A, 6A, 8A, 9A Announcement Systems.	Tube	8 Watts	—	024-150-101	024-150-300	024-150-501	Rated "MD" Replaced by KS-19219 L1
KS-16547 L1	3A, 4A, 6A, 8A, 9A Announcement Systems and C.O. Group Alerting Systems.	Tube	4 Watts	—	024-150-108	024-150-300	024-150-502	Replaced by KS-19739 L1
KS-16575 L1	Program Systems and Wired Music Distribution Systems.	Tube	10 Watts	—	024-120-100	024-120-300	024-120-500	Rated "MD" Replaced by KS-20425 L1
KS-16607 L1	Preamplifier/Volume Limiter Arranged for Plug-in Connection with Other Amplifiers.	Tube	Variable-Volume Limited	—	024-150-102	—	024-150-503	Presently Available
KS-16608 L1	Paging and Announcement Systems.	Tube	12 Watts	KS-16607 L1 KS-16611 L1 KS-16612 L1	024-150-106	024-150-300	024-150-503	Presently Available
KS-16610 L1	Paging and Announcement Systems.	Tube	75 Watts	KS-16607 L1 KS-16611 L1 KS-16612 L1	024-150-107	024-150-300	024-150-503	Presently Available
KS-16617 L1	Test Desk/Main Frame Communications.	Tube	8 Watts	—	024-150-109	024-150-300	024-150-504	Replaced by KS-19601 L1
KS-16622 L1	Wired Music Distribution Systems.	Tube	30 Watts	—	024-125-100	024-125-300	024-125-500	Replaced by KS-20425 L1
KS-16740	Local Program Systems.	Tube	+24 dBm	(2) KS-16740 L2 (2) KS-16740 L3	024-130-100	024-130-300	024-130-500	Replaced by KS-20159 L1
KS-16754 L1 KS-16754 L3	Compression Amplifier FAA and 7A Announcement System.	Transistorized	0.5 Watt	KS-16728 L1	024-176-100	024-176-200	—	KS-16754 L1 and L3 Rated "MD" Replaced by KS-20449 L1
KS-16754 L2 KS-16754 L4	Non Compression — Group Alerting and Emergency Announcement Systems.	Transistorized	0.5 Watt	KS-16728 L1	024-176-100	024-176-200	—	KS-16754 L2 and L4 Rated "MD" Replaced by KS-20449 L1
KS-16831 L1	Program Systems to 15KC	Transistorized	+22 dBm	KS-16860 L1	024-175-100	024-175-200	024-175-500	Rated "MD" Replaced by KS-20159 L1
KS-16831 L2 KS-16831 L3	Facsimile, Data to 100KC Facsimile, Data to 500KC		+23 dBm +10 dBm		024-175-101 024-175-102			Rated "MD" Rated "MD"
KS-19219 L1	Announcement Systems.	Transistorized	3 Watts	KS-19219 L2 KS-19220 L2 KS-19221 L1	024-177-100	—	024-177-500	Presently Available
KS-19220 L2	Preamplifier	Transistorized	—	—	024-180-100	—	—	Presently Available

TABLE A (Cont)

AMPLIFIER	INITIAL USE	TYPE	POWER OUTPUT	UNITS BASIC	PRACTICES			NOTES
					GENERAL DESCRIPTION	MAINTENANCE ROUTINES	OPERATION AND TESTS	
KS-19221 L1	Plug-in Amplifier (Part of KS-19219 L1)	Transistorized	4 Watts	—	024-181-100	—	—	Presently Available
KS-19328 L1	Service Observing Trunk Testing	Transistorized	+8 dBm	KS-19220 L2	PEL 7223	—	—	Presently Available
KS-19601 L1	Main Frame Telephone Circuit.	Transistorized	4 Watts	KS-19220 L2 KS-19221 L1	024-179-100	—	024-179-500	Presently Available
KS-19602 L1	Wired Music Distribution Systems.	Tube	25 Watts	—	024-178-100	—	024-178-500	Not Available
KS-19739 L1	Announcement Systems.	Transistorized	4 Watts	KS-19220 L2 KS-19221 L1	024-182-100	—	024-182-500	Presently Available
KS-20159 L1	Local Program Systems	Transistorized	+22 dBm	KS-20159 L3, L4, L5, L6	024-175-110	024-175-210	024-175-510	Presently Available
KS-20378	Various Voice-Frequency Circuit Applications	Transistorized	+17 dBm	—	024-140-106	—	—	Presently Available
KS-20425 L1	Local Program Systems	Transistorized	+44 dBm	—	024-122-100	024-122-200	024-122-500	Presently Available
KS-20449 L1	Military Conference Arrangements, Call Distributor Systems, and No. 300 Switching Systems	Transistorized	0.5 Watt	—	024-174-100	024-174-200	024-174-500	Available by December 1970

TABLE B  
AUXILIARY KS-SPECIFICATION SPEECH EQUIPMENT

KS-16611 L1	Plug-in Transformer Used as Input Transformer in Various KS-Specification Amplifiers.	—	—	—	024-150-103	—	—	Presently Available
KS-16612 L1	Two Channel Input Plug-in Unit Used in Various KS-Specification Amplifiers.	—	—	—	024-150-104	—	—	Presently Available
KS-12046 L1	Loudspeaker	—	—	—	024-190-100	—	—	Presently Available
KS-16504 L1	Handset	—	—	—	024-192-100	—	—	Presently Available
KS-12048 L1	Auto Transformer	—	—	—	024-191-100	—	—	Presently Available
KS-14417 L1	Auto Transformer	—	—	—	024-191-101	—	—	Presently Available
KS-14792 L5	Line Matching Transformer	—	—	—	024-191-102	—	—	Presently Available