

NAVSHIPS 93285(B)

(Non-Registered)

★

VOLUME 3  
TECHNICAL MANUAL  
for  
RADIO SET  
AN/URC-32  
SERIES

DEPARTMENT OF THE NAVY  
BUREAU OF SHIPS

★

*Approved: 28 May 1963*  
*Published: 1 August 1963*

TABLE OF CONTENTS

Paragraph	Page	Paragraph	Page
SECTION 6 - PARTS LIST		SECTION 6 - PARTS LIST (Cont)	
6-1. Introduction . . . . .	6-1	6-3. Maintenance Parts List . . . . .	6-1
a. Reference Designations . . . . .	6-1	6-4. List of Manufacturers . . . . .	6-2
b. Ref Desig Prefix . . . . .	6-1	6-5. Stock Number Identification . . . . .	6-2
6-2. List of Units . . . . .	6-1	6-6. Notes . . . . .	6-2

LIST OF TABLES

Table	Page	Table	Page
SECTION 6 - PARTS LIST		SECTION 6 - PARTS LIST (Cont)	
6-1. List of Units . . . . .	6-2	6-3. List of Manufacturers . . . . .	6-123
6-2. Maintenance Parts List . . . . .	6-3		

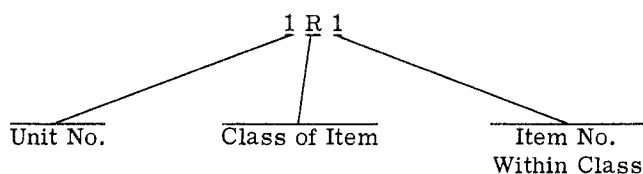
SECTION 6

PARTS LIST

6-1. INTRODUCTION.

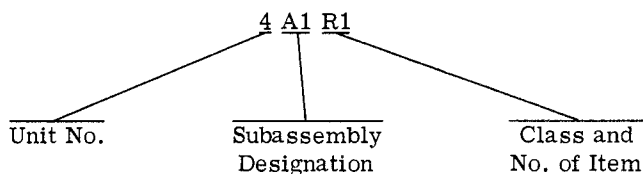
a. REFERENCE DESIGNATIONS. - The unit numbering method of assigning reference designations has been used to identify units, assemblies, subassemblies, and parts. This method has been expanded as much as necessary to adequately cover the various degrees of subdivision of the equipment. Examples of this unit numbering method and typical expansions of the same are illustrated by the following:

Example 1:



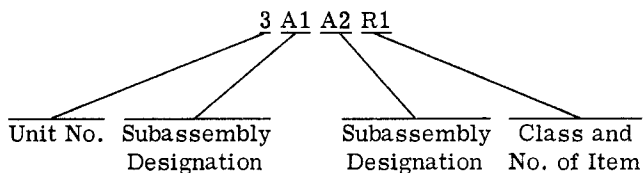
Read as: First (1) resistor (R) of first unit (1).

Example 2:



Read as: First (1) resistor (R) of first (1) subassembly (A) of fourth (4) unit.

Example 3:



Read as: First (1) resistor (r) of second (2) subassembly (A) of first (1) subassembly (1) of third (3) unit.

b. REF DESIG PREFIX. - Partial reference designations are used on the equipment and illustration. The partial reference designations consist of the class letter(s) and the identifying item number. The complete reference designations may be obtained by placing the proper prefix before the partial reference designations. Prefixes are provided on illustrations following the notation REF DESIG PREFIX.

ORIGINAL

6-2. LIST OF UNITS.

Table 6-1 is a listing of the units comprising the equipment. The units are listed by unit numbers in numerical order. Thus when the complete reference designation of a part is known, this table will furnish the identification of the unit in which the part is located, since the first number of a complete reference designation identifies the unit. Table 6-1 also provides the following information for each unit listed: (1) quantity per equipment, (2) official name, (3) designation, (4) colloquial name, and (5) location of the first page of its parts listing in table 6-2.

6-3. MAINTENANCE PARTS LIST.

Table 6-2 lists all units and their maintenance parts. The units are listed in numerical sequence. Maintenance parts for each unit are listed alphabetically-numerically by class of part following the unit designation. Thus the parts for each unit are grouped together. Table 6-2 provides the following information: (1) the complete reference designation of each unit, assembly, subassembly, or part, (2) reference to explanatory notes in paragraph 6-6, (3) noun name and brief description, and (4) identification of the illustration which pictorially located the part.

Printed circuit boards, assembly boards, modules, etc, are listed first as individual items in the maintenance parts list. In addition, at the completion of a parts listing for each unit, the individual circuit board, assembly board, module, etc, is then broken down by components into separate parts listing. When there is a redundancy of such electronic assemblies in subsequence units, reference is made to the parts breakdown previously listed.

**Note**

Classified parts are designated by the following classification symbols placed in the NOTES column (in addition to any numerically identified notes) of the Maintenance Parts List: C, Confidential; CMH, Confidential-Modified Handling; S, Secret; TS, Top Secret. A brief description is given for all key parts (parts differing from any parts previously listed in this table) and sub-key parts (parts identical to a key part but appearing for the first time for a unit). The names and descriptions are omitted for other parts, but reference is made to the key or sub-key part for the data. Unless otherwise indicated, all drawing numbers apply to equipment manufacturer and all type numbers apply to part manufacturer.

6-4. LIST OF MANUFACTURERS.

Table 6-3 lists the manufacturers of parts used in the equipment. The table includes the manufacturer's code used in table 6-2 to identify the manufacturers.

numbers and source maintenance and recoverability codes. Therefore, reference should be made to the APL prepared for the equipment for stock number information.

6-5. STOCK NUMBER IDENTIFICATION.

Allowance parts list (APL) issued by the Electronics Supply Office (ESO) include federal stock

6-6. NOTES.

The following notes provide information as referenced in table 6-2.

TABLE 6-1. LIST OF UNITS

UNIT NO.	QTY	NAME OF UNIT	DESIGNATION	COLLOQUIAL NAME	PAGE NO.
1	1	Interconnecting Box	J-1007/U	Junction Box	6-3
2	1	Amplifier, Radio Frequency	AM-2061/URT	Power Amplifier	6-4
3	1	Converter-Oscillator	CV-731/URC	Frequency Generator	6-11
4	1	Amplifier-Converter-Modulator	AM-2064/URC	Sideband Generator	6-77
5	1	Converter-Monitor	CV-730/URC	CW and FSK Unit	6-90
6	1	Amplifier-Control	AM-2062/URC	Audio & Control Unit	6-94
7	1	Amplifier-Control	AM-2062A/URC	Audio & Control Unit	6-98
8	1	Comparator, Signal	CM-126/UR	Frequency Comparator	6-102
9	1	Control-Power Supply	C-2691/URC	Handset Adapter	6-104
10	1	Handset & Cord	H-169/U CX-1846( )/U	Dynamic Handset	6-105
11	1	Power Supply	PP-2154/U	Low Voltage Power Supply	6-105
12	1	Cooler, Air, Electronic Equipment	HD-347/U	Blower	6-106
13	1	Power Supply	PP-2153/U	High Voltage Power Supply	6-107
14	1	Rack, Electrical Equipment	MT-2092/U	Mounting Rack and Shockmount	6-109
15	1	Kit, Air Duct		Kit, Air Duct	6-110
16	1	Kit, Cable		Kit, Cable	6-111

TABLE 6-1. (Continued)

UNIT NO.	QTY	NAME OF UNIT	DESIGNATION	COLLOQUIAL NAME	PAGE NO.
17	1	Dummy Load, Electrical	DA-218/U	Dummy Antenna	6-114
18	1	Shipboard Mounting Kit		Shipboard Mounting Kit	6-115
			ACCESSORIES		
	1	Installation Kit, Electrical Equipment	MK-446A/URC-32	H-V Power Supply Bulkhead Mounting Kit	6-115
	1	Replacement Module Kit	MK-464A/URC	Replacement Module Kit	6-116
	1	Isolation Amplifier Module	AM-1785/GRC	Isolation Amplifier Module	6-117
	1	Maintenance Kit, Electrical Equipment	MK-447/URC-32	Service Repair Tool Kit	6-119
	1	Amplifier, Electronic Control		Electronic Control	6-121

TABLE 6-2. MAINTENANCE PARTS LIST

## INTERCONNECTING BOX, J-1007/U

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
Unit 1		JUNCTION BOX 153H-3: contains main power fuse holders, space for mtg terminal blades and receiver input protector, 3-3/8 in. by 6-7/8 in. by 19-1/4 in.; mfr code 13499, part no. 522-2363-005	
1C1		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 500 vdc, 1000 uuf -20% +80% insulated; 5/16 in. w across flats, 3/4 in. lg. excluding terminals; mfr code 72982, part no. 327047X5T0102Z	
1C2		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 500 vdc, 0.1 uf -20% +80%; insulated; 0.187 in. by 0.375 in. by 2.140 in.; mfr code 13499, part no. 41C92	
1DS1		LAMP, INCANDESCENT: MIL type MS15571-4	
1DS2		LAMP, GLOW: neon gas; 1/25 w, 65 v ac, 90 v dc; 1-1/16 in. h overall; mfr code 24446; part no. NE2	
1E1		LENS, INDICATOR, LIGHT: 5/8 in. dia, red, translucent, glass; mfr code 72619, part no. 81-111PC	

TABLE 6-2. (Continued)

INTERCONNECTING BOX, J-1007/U

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
1E2		NOT USED	
1E3		TERMINAL STUD: insulated; brass, hot tinned dipped; 2-56 thd size; 0.250 in. hex, 0.234 in. w, 0.625 in. lg; mfr code 91663, part no. RTMT-2M	
1E4		TERMINAL STUD: same as 1E3	
1E5		TERMINAL STUD: same as 1E3	
1E6		TERMINAL, STUD: insulated, brass, 1/4 in. hex, 5/8 in. lg; mfr code 91663, part no. RTMT12M	
1F1		FUSE, CARTRIDGE: MIL type F60H20R0C	5-20
1F2		FUSE, CARTRIDGE: same as 1F1	5-20
1J1		CONNECTOR, RECEPTACLE ELECTRICAL: mfr code 80058, type UG909AU	
1J2		CONNECTOR, RECEPTACLE, ELECTRICAL: 1 female contact, 50 ohms; straight shape; mfr code 80058, type UG1094U	
1J3		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 1J2	
1K1		RELAY, ARMATURE: 1C; 100 w RF power; 50 ohms; 1c auxiliary; 1 amp at 28 VDC resistive; 53 v dc max operating voltage, 900 ohms $\pm 10\%$ ; mfr code 74868, part no. 300-11796	
1K2		RELAY, THERMAL: 200 ma, 1.9 w approx; 3 amps at 250 VAC resistive; mfr code 93929, part no. GS3905	
1P1		NOT USED	
1P2		NOT USED	
1P3		CONNECTOR, PLUG, ELECTRICAL: 1 male contact, 1 mating end; mfr code 80058, type UG88CU	
1P4		CONNECTOR, PLUG, ELECTRICAL: same as 1P3	
1P5		CONNECTOR, PLUG, ELECTRICAL: same as 1P3	
1P6		CONNECTOR, PLUG, ELECTRICAL: same as 1P3	
1R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF471K	
1R2		RESISTOR, FIXED, WIREWOUND: MIL type RW67U201	
1R3		RESISTOR, FIXED, WIREWOUND: MIL type RW30U801	
1S1		SWITCH PUSH: snap-action momentary; 28 v dc, 17 amp resistive, 240 v ac, 7.5 amp resistive, normally closed; mfr code 81641, part no. C3100E3R	
1XDS1		LAMPHOLDER: mounting bracket for miniature bayonet base pilot light bulbs; mfr code 72765, part no. 50	
1XF1		FUSEHOLDER: MIL type FHL12G	5-20
1XF2		FUSEHOLDER : same as 1XF1	5-20

AMPLIFIER, RADIO FREQUENCY, AM-2061/URT

Unit 2		POWER AMPLIFIER 367A-3: 115/230 v ac, 400 v dc, 28 v dc, 2000 v dc, operating voltage; 2.0 mc to 30 mc at 500 watts PEP operating frequency; 6-7/8 in. by 8-1/2 in. by 18-7/8 in.; mfr code 13499, 522-0864-00	
2C1		CAPACITOR , FIXED, CERAMIC DIELECTRIC: MIL type CK63AW103M	5-23
2C2		CAPACITOR, FIXED, CERAMIC DIELECTRIC: MIL type CK60AW102M	5-23
2C3		CAPACITOR , FIXED, CERAMIC DIELECTRIC: same as 2C2	5-23
2C4		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 0.02 uf -20% +100%, 500 v dc; mfr code 72982, part no. 881011W5V0203Z	5-23
2C5		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C4	5-23
2C6		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C2	5-23

TABLE 6-2. (Continued)

## AMPLIFIER, RADIO FREQUENCY, AM-2061/URT

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
2C7		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 7000 uuf $\pm 10\%$ , 500 v dc; mfr code 13499, part no. 913-3109-00	5-22
2C8		CAPACITOR, FIXED, MICA DIELECTRIC: 5 uuf $\pm 10\%$ , 500 v dc; mfr code 72136, part no. VCM15C050K	5-22
2C9		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 500 uuf $\pm 20\%$ , 1000 v dc; mfr code 72982, part no. 808-501W5R0-501M	5-23
2C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 12 uuf $\pm 5\%$ , 5000 v dc; mfr code 71590, part no. 850S12ZPORM5PCT	5-22
2C11		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 47 uuf $\pm 5\%$ , 5000 v dc; mfr code 71590, part no. 850S47ZPORM5PCT	5-22
2C12		CAPACITOR, VARIABLE, GLASS DIELECTRIC: 1.0 uuf to 8.0 uuf, 500 v dc; mfr code 14674, part no. 682046	
2C13		CAPACITOR, FIXED, MICA DIELECTRIC: 1000 uuf, 100 v dc (p/o XV3)	
2C14		CAPACITOR, FIXED, MICA DIELECTRIC: 1000 uuf, 100 v dc (p/o XV4)	
2C15		CAPACITOR, FIXED, MICA DIELECTRIC: 1000 uuf $\pm 20\%$ , 500 v dc; mfr code 53021, part no. M23-1000M	5-22, 5-23
2C16		CAPACITOR, FIXED, MICA DIELECTRIC: 47 uuf $\pm 5\%$ , 500 v dc; mfr code 72136, part no. VCM15E470J	5-23
2C17		CAPACITOR, FIXED, MICA DIELECTRIC: 270 uuf $\pm 2\%$ , 500 v dc; mfr code 72136, part no. VCM15E271G	5-23
2C18		CAPACITOR, FIXED, MICA DIELECTRIC: 510 uuf $\pm 2\%$ , 300 v dc; mfr code 72136, part no. CM15E511G	5-23
2C19		CAPACITOR, FIXED, MICA DIELECTRIC: 330 uuf $\pm 2\%$ , 500 v dc; mfr code 72136, part no. VCM15E331G	5-23
2C20		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1000 uuf $\pm 20\%$ , 5000 v dc; mfr code 71590, part no. DA858-003	5-22
2C21		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 75 uuf $\pm 5\%$ , 3500 v dc; mfr code 71590, part no. 850S75ZPORM5PCT	5-22
2C22 thru 2C24		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C11	5-22
2C25 thru 2C28		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C21	5-22
2C29		CAPACITOR, FIXED, GLASS DIELECTRIC: 300 uuf $\pm 5\%$ , 2000 v dc; mfr code 14674, CY70678507	5-22
2C30		CAPACITOR, FIXED, GLASS DIELECTRIC: 275 uuf $\pm 5\%$ , 2000 v dc; mfr code 14674, CY70678508	5-22
2C31		CAPACITOR, FIXED, GLASS DIELECTRIC: 900 uuf $\pm 5\%$ , 2000 v dc; mfr code 14674, part no. CY70678509	5-22
2C32		CAPACITOR, FIXED, GLASS DIELECTRIC: 3000 uuf $\pm 5\%$ , 2000 v dc; mfr code 14674, part no. CY70678506	5-22
2C33		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C10	5-22
2C34		NOT USED	
2C35		NOT USED	
2C36		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C1	5-23
2C37		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C1	5-23
2C38		NOT USED	
2C39		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1000 uuf $-20\%$ $+80\%$ , 500 v dc; mfr code 72982, part no. 327047X5T0102Z	5-22

TABLE 6-2. (Continued)

## AMPLIFIER, RADIO FREQUENCY, AM-2061/URT

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
2C40		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C39	5-22
2C41		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.01 uf $\pm 20\%$ , 600 v dc; mfr code 56289 part no. 103P10306	5-23
2C42		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C39	5-23
2C43		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 2C41	5-23
2C44		NOT USED	
2C45		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C39	5-23
thru 2C47			
2C48		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 2C41	5-23
2C49		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.1 uf $\pm 20\%$ , 500 v dc; mfr code 56289, part no. JN17-255A	5-22
2C50A		CAPACITOR, FIXED, ELECTROLYTIC: dual section, 20 uf each section, -10%, +50%, 450 vdcw each section; mfr code 56289, part no. 71241	5-22
2C50B		CAPACITOR, FIXED, ELECTROLYTIC: dual section, 20 uf each section, -10%, +50%, 450 vdcw each section; mfr code 56289, part no. 71241	5-22
2C51		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C1	5-22
2C52		CAPACITOR, FIXED, ELECTROLYTIC: 4 uf -10% +100%, 150 v dc; mfr code 56289 part no. 40D211A2	5-22
2C53		CAPACITOR, FIXED, ELECTROLYTIC: 24 uf -10% +75%, 200 v dc; mfr code 13499, part no. 184-5040-00	5-22
2C54		CAPACITOR, FIXED, ELECTROLYTIC: 20 uf -10% +100%, 150 v dc; mfr code 00656, part no. 183-1601-00	5-22
2C55		CAPACITOR, FIXED, ELECTROLYTIC: same as 2C54	5-22
2C56		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C39	5-22
2C57		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C39	
2C58		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C39	
2C59		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C39	5-23
2C60		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C39	
thru 2C67			
2C68		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C39	5-23
2C69		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C39	5-22
2C70		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 5 uuf $\pm 10\%$ , 500 v dc; mfr code 71590, part no. DA855-007	5-22
2C71		CAPACITOR, FIXED, MICA DIELECTRIC: 15 uuf $\pm 5\%$ , 500 v dc; mfr code 72136, part no. DM10C150J	5-22
2C72		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C4	5-22
2C73		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 0.05 uf -20% +80%, 50 v dc; mfr code 01909, part no. 55C23A2	5-22
2C74		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 2C39	5-22
2CR1		SEMICONDUCTOR DEVICE, DIODE: silicon; hermetically sealed; mfr code 07688, JETEC type 1N1095	5-22
2CR2		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 73293, part no. 1N459	5-22
2CR3		SEMICONDUCTOR DEVICE, DIODE: same as 2CR2	5-22
2CR4		SEMICONDUCTOR DEVICE, DIODE: germanium; hermetically sealed; mfr code 07688, JETEC type 1N198	5-22
2CR5		SEMICONDUCTOR DEVICE, DIODE: same as 2CR2	5-22
2CR6		SEMICONDUCTOR DEVICE, DIODE: silicon; hermetically sealed; mfr code 73293, part no. 1N457	5-22



TABLE 6-2. (Continued)

## AMPLIFIER, RADIO FREQUENCY, AM-2061/URT

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
2DS1		LAMP, GLOW: neon gas; 1/25 w, 65 v ac, 90 v dc; 1-1/8 in. h o/a; mfr code 24446, part no. NE51	
2DS2		NOT USED	
2DS3		NOT USED	
2DS4		LENS, INDICATOR LIGHT: red plastic; fluted; 13/16 in. dia, 1-11/16 in. lg o/a; mfr code 72619, part no. 52-991	
2DS5		DIAL, SCALE: 0 thru 24 ccw range of inscription; linear; 2 in. dia by 0.103 in. thk; 0.562 in. dia center hole; mfr code 13499, part no. 542-7428-003	
2DS6		DIAL, SCALE: same as 2DS5	
2DS7		POINTER, DIAL: plastic; 1/8 in. by 3/8 in. by 3/8 in.; w/red filled line; mfr code 13499, part no. 542-6948-002	
2DS8		POINTER, DIAL: same as 2DS7	
2E1		SHIELD, ELECTRON TUBE: accommodates T-6-1/2 style envelope, 2-3/8 in. lg overall; straight cylinder shape w/flared end open top; mfr code 13499 part no. 541-6555-003	
2E2		SHIELD, ELECTRON TUBE: same as 2E1	
2E3		AIRDUCT: glass silicone tubing; 0.843 in. thk by 2.500 in. dia; includes 1 cap, 2 mounts, 1 contact and hardware; mfr code 13499, part no. 544-9112-002	5-22
2E4		AIRDUCT: same as 2E3	5-22
2E5		RETAINER, ELECTRON TUBE: beryllium copper, bright alloy plate finish; 0.875 in. by 0.875 in. by 3.437 in. o/a; mfr code 13499, part no. 544-9113-003	5-7
2E6		RETAINER, ELECTRON TUBE: same as 2E5	5-22
2F1		FUSE, CARTRIDGE: MIL type F02A250V1-2AS OR	
2F1		FUSE, CARTRIDGE: MIL type F02A250V1AS	
2H1		WASHER, KNOB: cres, passivate finish; 0.494 in. id, 1.250 in. od, 0.21875 in. thk; mfr code 13499, part no. 542-7417-002	
2H2		WASHER, KNOB: same as 2H1	
2H3		WASHER, FLAT: rd; aluminum, chromate dip; 0.989 in. id, 0.750 in. od, 0.125 in. thk; mfr code 13499, part no. 543-5607-003	
2H4		WASHER, FLAT: same as 2H3	
2J1		CONNECTOR, RECEPTACLE, ELECTRICAL: bulkhead mounted; brass; teflon insulation, beryllium copper contact; 1 contact; mfr code 80058, type UG909AU	5-23
2J2		CONNECTOR, RECEPTACLE, ELECTRICAL: 1 female contact, 10 amps, 50 ohms; straight shape; mfr code 80058, type UG58AU	5-23
2J3		CONNECTOR, RECEPTACLE, ELECTRICAL: 1 contact; teflon insulation; 5000 v, 5 amps; straight shape; mfr code 80058, type UG931U	5-23
2J4		JACK, TIP: for use w/ 0.080 in. dia plug tip; 5.5 amps; mfr code 98291, part no. SKT10WHITE	5-6
2J5		JACK, TIP: for u/w 0.080 in. dia plug tip; 5.5 amps; mfr code 98291, part no. SKT10BLUE	5-6
2J6		CONNECTOR, RECEPTACLE, ELECTRICAL: female insert, 16 contacts; 5 amps; mfr code 02660, part no. 26-4401-16S	5-23
2K1		RELAY, THERMAL: time delay, normally open contacts; 117 v ac nominal; 3 amp 150 v dc, 3 amp, 250 v dc; mfr code 19500, part no. B2103	5-23
2K2		RELAY, ARMATURE: 2C, dpdt; 300 v dc at 0.25 amp; single winding, 27.5 v dc nom working voltage, 30 v dc max; 500 ohms min, 550 ohms nom coil resistance; mfr code 04221, part no. 94-1551	5-22
2K3		RELAY, ARMATURE: 1 contact arrangement; 28 v dc at 1 amp resistive, 115 v ac at 1 amp resistive; mfr code 78277, part no. 93550	5-23

TABLE 6-2. (Continued)

## AMPLIFIER, RADIO FREQUENCY, AM-2061/URT

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
2L1		COIL, RADIO FREQUENCY: single layer wound solenoid; 56 uh inductance, 750 ma cur; 1.30 ohms; mfr code 82142, part no. 10404-30	5-23
2L2		NOT USED	
2L3		COIL, RADIO FREQUENCY: single layer wound, 2000 uh, 27.5 ohms dc, 115 ma current rating, #22 AWG tinned copper leads; mfr code 99800, part no. 2500-42	
2L4		COIL, RADIO FREQUENCY: 10 UH, 2000 v dc; #14 AWG tinned copper wire; mfr code 74970, part no. 229-201-3	5-22 & 5-23
2L5		COIL, RADIO FREQUENCY: single layer wound, #22 AWG wire; 220 uh inductance, 7.20 ohms dc resistance, 210 ma dc current; mfr code 99800, part no. 1537-92	5-23
2L6,		COIL, RADIO FREQUENCY: same as 2L5	5-23
2L7		COIL, RADIO FREQUENCY: same as 2L5	5-23
2L8		COIL, RADIO FREQUENCY: single layer wound, 75 turns, #27 AWG wire; 75 uh nom inductance, 7 ohms dc resistance, 0.8 amp approx current rating; 2 solder lug type terminals; mfr code 13499, part no. 543-0457-003	5-22
2L9		TRANSFORMER, RADIO FREQUENCY: 1 winding, 120 turns, #27 AWG wire; 87 uh inductance; CT; 2 solder lug, 1 wire lead type; mfr code 13499, part no. 543-0460-003	5-22
2L10		COIL, RADIO FREQUENCY: 27 turns; single layer wound type; no. 12 AWG with seatite insulation; 16 uh nom inductance; mfr code 13499, part no. 544-7228-002	5-22
2L11		COIL, RADIO FREQUENCY: 41 turns; single layer wound type; no. 22 AWG with varnish insulation; mfr code 13499, part no. 543-0316-002	5-22
2L12		COIL, RADIO FREQUENCY: 5000 uh $\pm 5\%$ , 46.0 max dc resistance; 85 ma dc current; mfr code 99800 part no. 2500-62	5-22
2M1		AMMETER: d-c, linear 0 to 1 ma cw; 40 ohms $\pm 5\%$ meter resistance; w/800 scale div; mfr code 81030, part no. 1120HBL001DCMA	5-21
2MP1		GEAR, SPUR: 48 teeth, 20° pressure angle, 64 diametral pitch; 1/8 in. panel; 0.750 in. dia by 0.438 in. lg o/a; mfr code 13499, part no. 542-7439-003	
2MP2		GEAR, SPUR: same as 2MP1	
2MP3		SHAFT, STRAIGHT, SWITCH: brass, bright alloy plate; 0.500 in. h; 0.2485 in. dia by 6.171 in. lg; mfr code 13499, part no. 543-0306-002	
2MP4		CAM, SWITCH: plastic (nylon); 0.250 in. id, 0.625 in. od, 0.500 in. w; mfr code 13499, part no. 543-0382-002	
2MP5		DETENT, SWITCH: 12 switching positions; 0.468 in. lg, 1.353 in. dia o/a dim.; mfr code 13499, part no. 543-0392-002	
2MP6		SWITCH DETENT SUBASSEMBLY: c/o detent assembly, plate and hardware; mfr code 13499, part no. 543-0432-003	
2MP7		SHAFT: brass, bright alloy plate; 0.249 in. dia by 1.625 in. lg; mfr code 13499, part no. 543-0311-002	5-22
2MP8		PIN, GROOVED, HEADLESS: brass, ternary finish; 0.187 in. dia undercut, 0.249 in. max dia large end, 1.343 in. nom lg; mfr code 13499, part no. 543-0305-002	5-22
2MP9		GEAR, SPUR: plastic; 16 teeth, 20 deg pressure angle, 64 diametral pitch, 0.250 in. pitch dia; 0.281 in. od, 0.125 in. lg o/a dim.; mfr code 13499, part no. 542-7414-002; p/o 201	
2MP10		GEAR, SPUR: same as 2MP9, p/o 202	
2MP11		COUPLING SHAFT, FLEXIBLE: injection molded plastic insulation; 17/32 in. by 1-3/16 in. od; mfr code 13499, part no. 015-0668-00	5-22

TABLE 6-2. (Continued)

## AMPLIFIER, RADIO FREQUENCY, AM-2061/URT

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
2MP12 2MP13		COUPLING, SHAFT, FLEXIBLE: same as 2MP11 PLATE, DIAL ADJUSTING: aluminum: 0.125 in. by 2.187 in. by 2.625 in. o/a dim.; mfr code 13499, part no. 544-9749-002	5-22
2MP14 2MP15		PLATE, DIAL ADJUSTING: same as 2MP13 PLATE, DIAL ADJUSTING: aluminum; 0.032 in. by 2.187 in. by 2.625 in. o/a dim.; mfr code 13499, part no. 544-9750-002	
2MP16 2MP17		PLATE, DIAL ADJUSTING: same as 2MP15 BRACKET, MOUNTING: aluminum; 0.406 in. by 2.125 in. by 3.125 in. o/a dim.; mfr code 13499, part no. 553-7199-003	
2MP18		BRACKET, MOUNTING: aluminum; 1.062 in. by 1.343 in. by 2.375 in. o/a dim.; mfr code 13499, part no. 553-7202-003	
2O1		KNOB: setscrew type; crown shape; pos gripping surface; aluminum body; mechanically attached skirt; 1.625 in. max od, 0.875 in. thk o/a; mfr code 13499, part no. 542-7447-003	
2O2		KNOB: same as 2O1	
2O3		KNOB: setscrew type; rd w/bar shape; accommodates 0.256 in. dia shaft; plastic body, brass insert; 0.687 in. by 0.750 in. by 1.125 in.; mfr code 13499, part no. 508-1103-20	
2O4		KNOB: same as 2O3	
2R1		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF560K	5-23
2R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF473K	5-23
2R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF390K	5-23
2R4		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF822K	5-23
2R5		RESISTOR, FIXED, WIREWOUND: MIL type RW31V152	5-23
2R6		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF221K	5-23
2R7		RESISTOR, FIXED, WIREWOUND: 2.0 ohms $\pm 1\%$ , 3 W; mfr code 91637, part no. RSM2-2R000F	5-23
2R8		RESISTOR, FIXED, WIREWOUND: same as R7	5-23
2R9		RESISTOR, FIXED, FILM: MIL type RN70B1541F	5-23
2R10		RESISTOR, FIXED, FILM: same as 2R9	5-23
2R11		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF101K	5-23
2R12		RESISTOR, FIXED, COMPOSITION: same as 2R11	5-23
2R13		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF101K	5-23
2R14		RESISTOR, FIXED, WIREWOUND: 0.07 ohms $\pm 3\%$ , 2 W; mfr code 91637, part no. RSM2R0700G	5-23
2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF104K	5-22
2R16		RESISTOR, FIXED, WIREWOUND: 6300 ohms $\pm 5\%$ , 14 W; mfr code 13499, part no. 747-0780-00	5-23
2R17		RESISTOR, FIXED, COMPOSITION: same as 2R13	5-22
2R18		RESISTOR, FIXED, WIREWOUND: 4000 ohms $\pm 5\%$ , 3 W; mfr code 13499, part no. 710-3855-00	5-22
2R19		RESISTOR, VARIABLE, COMPOSITION: 5000 ohms $\pm 20\%$ , 2 W; mfr code 01121, part no. J52885	5-22
2R20		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF472K	5-22
2R21		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF823K	5-22
2R22		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF683K	5-22
2R23		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF273K	5-22
2R24		RESISTOR, FIXED, COMPOSITION: same as 2R13	5-23
2R25		RESISTOR, FIXED, COMPOSITION: same as 2R11	5-23
2R26		RESISTOR, FIXED, FILM: MIL type RN65B2152F	5-23

TABLE 6-2. (Continued)

## AMPLIFIER, RADIO FREQUENCY, AM-2061/URT

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
2R27		RESISTOR, FIXED, FILM: MIL type RN65B1102F	5-23
2R28		RESISTOR, FIXED, FILM: same as 2R26	5-23
2R29		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF104K	5-22
2R30		RESISTOR, FIXED, COMPOSITION: same as 2R15	5-22
thru 2R35			
2R36		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF564K	5-21
2R37		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF274K	5-23
2R38		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF101K	
2R39		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF274K	5-22
2R40		RESISTOR, FIXED, WIREWOUND: MIL type RW69V471	5-23
2R41		RESISTOR, FIXED, WIREWOUND: same as 2R40	5-23
thru 2R47			
2R48		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF683K	5-22
2R49		RESISTOR, VARIABLE, COMPOSITION: 25,000 ohms $\pm 20\%$ , 1 W; mfr code 13499, part no. 380-2526-00	5-22
2S1		SWITCH, ROTARY: 2 circuits, 1 section, 3 positions; 2 moving contacts, 8 fixed contacts; mfr code 81716, part no. 185146F1	5-21
2S2		SWITCH, TOGGLE: MIL type MS35058-29	5-21
2S3		SWITCH, TOGGLE: same as 2S2	5-21
2S4		SWITCH, ROTARY: 2 section, 4 positions; 1 pole, 4 throws, 1 moving contact, 8 fixed contacts; mfr code 81716, part no. 185147F2C	5-23
2S5		CONTACT ASSEMBLY, ELECTRICAL: p/o switch; includes four 1/4 in. dia. silver contacts; mfr code 13499, part no. 543-0459-003; p/o 2S6	5-22
2S6		SWITCH, ROTARY: 2 moving contacts, 10 fixed contacts; 7000 v ac, 20 amp; mfr code 13499, part no. 543-0404-003; (incl 2MP3, 2MP4, 2S5, 2S6A, 2S6B)	5-22
2S6A		SWITCH SUBASSEMBLY: c/o Rotor, Electrical Switch; 20 amp, 60 cps; 0.937 in. by 1.125 in. by 1.125 in. o/a dim.; 4 mtg holes spaced 9° apart on 0.773 in. dia bolt circle; mfr code 13499, part no. S21300; Stator, Switch: 20 amp at 60 cps; 7000 v breakdown voltage; copper clips; steatite insulation; 0.250 in. by 2.593 in. by 3.375 in. o/a dim.; mfr code 13499, part no. S21302	5-22
2S6B		SWITCH SUBASSEMBLY: c/o Rotor, Electrical, Switch; 20 amp at 60 cps; silver contacts shorting type; steatite insulation; 0.937 in. by 1.125 in. by 1.125 in. o/a dim.; mfr code 13499, part no. 269-1876-00; Stator, Switch: 20 amp at 60 cps; copper clips, silver plated, shorting type; steatite insulation; 0.250 in. by 2.562 in. by 3.375 in. o/a dim.; mfr code 13499, part no. 269-1875-00	5-22
2S7		SWITCH, SENSITIVE: spdt; 230 v dc at 0.15 amp, 250 v ac at 10 amp; incl mtg, hardware; mfr 13499, part no. 543-0427-003 (incl 2S8)	5-22
2S8		SWITCH, PUSH: two circuit, one NO, one NC; spdt, 250 v dc, 10 amp max inductive or spst, 230 v dc, 10 amp max; plunger type; mfr code 24446, part no. CR1070C130F3; p/o 2S7	5-22
2S9		SWITCH, TOGGLE: MIL type MS35059-31	5-21
2S10		SWITCH, PUSH: normally open interlock switch, 3 amp, 125 v ac, 1/2 amp 125 v dc; mfr code 24446, part no. 1AG19A1	5-23
2S11		SWITCH, ROTARY: 1 circuit, 1 pole, 5 position, 1 section; 1 moving contact, 6 fixed contacts; mfr code 13499, part no. 259-1838-00	5-23
2S12		SWITCH, ROTARY: same as 2S11	5-23

TABLE 6-2. (Continued)

## AMPLIFIER, RADIO FREQUENCY, AM/-2061/URT

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
2T1		TRANSFORMER, POWER, ISOLATION AND STEP-DOWN: primary winding 110, 115, or 120 v, 50 to 60 cps, 1 phase; primary winding 220, 230 or 240 v, 50 to 60 cps, 1 phase; secondary winding 115 v, 0.020 amp; secondary winding 6.3 v, 6 amp; mfr code 80008, part no. E10267	5-23 & 5-22
2TB1		TERMINAL BOARD: plastic; 0.093 in. h, 1.250 in. w, 3.562 in. lg; includes 18 solder stud type terminals; mfr code 13499, part no. 543-0304-002	
2TB2		TERMINAL BOARD: plastic; 0.093 in. by 1.500 in. by 3.250 in.; c/o 4 terminals, 2 fuse clips, 2 solder lugs, 1 capacitor strap and hardware; mfr code 13499, part no. 543-0334-002	
2TB3		TERMINAL BOARD: glass epoxy; 0.093 in. thk, 1.500 in. w, 3.375 in. lg; includes 14 solder lug type terminals; mfr code 13499, part no. 543-3265-002	
2V1		ELECTRON TUBE: power pentode; mfr code 24446, part no. 6CL6	5-22
2V2		ELECTRON TUBE: same as 2V1	5-22
2V3		ELECTRON TUBE: power tetrode; mfr code 06980, part no. 4CX250R	5-23 & 5-22
2V4		ELECTRON TUBE: same as 2V3	5-23 & 5-22
2XDS1		LAMPHOLDER: mounting bracket for miniature bayonet base pilot light bulbs; mfr code 72765, part no. 50	5-21
2XF1		FUSEHOLDER: extractor post type; 250 v, 15 amp; 1/4 in. by 1-1/4 in. cartridge fuse; mfr code 75915, part no. 342003	5-21
2XK1		SOCKET, ELECTRON TUBE: 8 prong octal tube socket w/steel mtg plate; mfr code 02660, part no. 88-8TM	5-22
2XV1		SOCKET, ELECTRON TUBE: 9 pin miniature, top mtg; 500 v ac rms, 1 amp; mfr code 94991, part no. 8000-0315	5-23
2XV2		SOCKET, ELECTRON TUBE: same as 2XV1	5-23
2XV3		SOCKET, ELECTRON TUBE: beryllium copper contacts; 1100 uuf $\pm 20\%$ , 1000 v dc; mfr code 06980, part no. SK620A	
2XV4		SOCKET, ELECTRON TUBE: same as 2XV3 (incl C14)	
2Z1		SUPPRESSOR, PARASITIC: 4 turns, #18 AWG wire; 47 ohms, 1 w; 2 wire lead type terminals; mfr code 13499, part no. 543-0451-002	5-23
2Z2		SUPPRESSOR, PARASITIC: same as 2Z1	5-23
2Z3		SUPPRESSOR, PARASITIC: 2 turns, #16 AWG wire; 47 ohms, 2 W; 2 wire lead type terminals; mfr code 13499, part no. 543-0452-002	5-22
2Z4		SUPPRESSOR, PARASITIC: same as 2Z3	5-22

## CONVERTER-OSCILLATOR, CV-731/URC

Unit 3		CONVERTER-OSCILLATOR: 300 kc freq; converter; 2000 kc to 30,000 kc freq range oscillator; 115 v ac, 60 cps, single phase, 6.3 v ac, 60 cps; +130 v, +28 v, -90 v dc operating power rqmts; 6-7/8 in. by 15-9/16 in. by 19 in. o/a	5-24
3C1		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1000 uuf +80% -20%, 500 v dc; mfr code 72982, part no. 327047X5T0102Z	5-24
3C2		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C3		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C4		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24

TABLE 6-2. (Continued)

CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3C5		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C6		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C7		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C8		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C9		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C11		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C12		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C13		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C14		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C15		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C16		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C17		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C18		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C19		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C1	5-24
3C20		NOT USED	
3C21		CAPACITOR, FIXED, PAPER DIELECTRIC: 220,000 uuf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 103P22301	5-24
3C22		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C21	5-24
3C23		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 300 v dc; mfr code 56289, part no. 103P10403	5-24
3C24		NOT USED	
3C25		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C23	5-24
3C26		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C23	
3C27		NOT USED	
3C28		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C23	5-24
3C29		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C21	5-24
3C30		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C21	5-24
3C31		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C23	5-24
3C32		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C23	5-24
3C33		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C21	5-24
3C34		CAPACITOR, FIXED, PAPER DIELECTRIC: 330,000 uuf $\pm 10\%$ , 100 v dc; mfr code 56289, part no. 186P33491S1	5-24
3C35		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C23	5-24
3C36		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C23	5-24
3C37		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C21	5-24
3C38		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C23	5-24
3C39		NOT USED	
3C40		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C21	5-24
3C41		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 20,000 uuf $+100\%$ $-20\%$ , 500 v dc; mfr code 72982, part no. 841011W5V0203Z	5-24
3C42		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C41	5-24
3C43		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3C34	5-24
3C44		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3C41	5-24
3C45		CAPACITOR, FIXED, MICA DIELECTRIC: 20,000 uuf $\pm 5\%$ , 300 v dc; mfr code 72136, part no. DM30F203J	
3DS1		LAMP, INCANDESCENT: MIL type MS25237-327	5-25
3DS2		LAMP, INCANDESCENT: same as 3DS1	5-25
3DS3		LAMP, INCANDESCENT: same as 3DS1	5-25
3DS4		LAMP, INCANDESCENT: same as 3DS1	5-25

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3DS5		DIAL BAND SWITCH: aluminum; 0.311 in. id, 3.0 in. od; mfr code 13499, part no. 543-3152-002	5-25
3E1		LENS, INDICATOR LIGHT: plastic colorless; 0.531 in. dia; mfr code 72914, part no. A9848-1	5-25
3E2		LENS, INDICATOR LIGHT: same as 3E1	5-25
3E3		LENS, INDICATOR LIGHT: same as 3E1	5-25
3E4		LENS, INDICATOR LIGHT: same as 3E1	5-25
3E5		TERMINAL STUD: brass, hot tinned dipped; 17/32 in. by 7/32 in.; mfr code 91663; part no. BMT17M	5-24
3E6		TERMINAL, STUD: same as 3E5	5-24
3E7		TERMINAL, STUD: same as 3E5	5-24
3E8		TERMINAL, STUD: same as 3E5	5-24
3E9		TERMINAL, STUD: same as 3E5	5-24
3E10		TERMINAL, STUD: same as 3E5	5-24
3E11		TERMINAL, STUD: same as 3E5	5-24
3E12		NOT USED:	
3E13		TERMINAL, STUD: brass, hot tinned dipped; 3/8 in. by 3/32 in.; mfr code 91663; part no. BMT12M	5-24
3E14		TERMINAL, STUD: same as 3E13	5-24
3J1		CONNECTOR, RECEPTACLE, ELECTRICAL: 37 rd female contacts; 1700 v dc, 1200 v ac, 5 amps; straight; mfr code 71468; part no. DCF37S1A101	5-24
3J2		CONNECTOR, RECEPTACLE, ELECTRICAL: 15 rd male contacts; 5 amps; 1700 v dc, 1200 v ac, 60 cps; straight; mfr code 71468; part no. DAF15S1A101	5-24
3J3		CONNECTOR, RECEPTACLE, ELECTRICAL: 10 flat male contacts; 5, 400 v dc, 5 amp, straight; mfr code 02660, part no. 143-010-01	5-24
3J4		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3J3	5-24
3J5		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3J3	5-24
3J6		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3J3	5-24
3J7		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3J1	5-24
3J8		NOT USED	
3J9		NOT USED	
3J10		CONNECTOR, RECEPTACLE, ELECTRICAL: MIL type UG1094U	5-24
3J11		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3J10	5-24
3J12		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3J10	5-24
3J13		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3J10	5-24
3J14		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3J10	5-24
3J15		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3J10	5-24
3J16		CONNECTOR, RECEPTACLE, ELECTRICAL: low loss plastic dielectric; 16 female contacts, 5 amp at 600 v dc; mfr code 02660, part no. 26-4403-16S	5-24
3J17		CONNECTOR, RECEPTACLE, ELECTRICAL: low loss plastic dielectric; 16 female contacts, 5 amp at 600 v dc; mfr code 02660, part no. 26-4401-16S	5-24
3K1		RELAY, ARMATURE: 2A, 1B contact arrangement; 250 ma contact rating at 28 v dc; mfr code 04221, part no. 95-2943	5-24
3L1		COIL, RADIO FREQUENCY: torodial wound, no. 32 AWG; 72 mh, 14.4 ohms; mfr code 88063, part no. MP206-16B	5-24
3L2		NOT USED	
3L3		COIL, RADIO FREQUENCY: universal wound, 4 pi, 139 turns #36 AWG ea section; 2.0 mh, 50 K ohms, 100 ma; mfr code 95265, part no. C0047409	5-24
3L4		COIL, RADIO FREQUENCY: single layer wound; magnet wire; 39 uh inductance; mfr code 82142, part no. 10404-26	5-24

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3L5		COIL, RADIO FREQUENCY: same as 3L3	5-24
3L6		COIL, RADIO FREQUENCY: same as 3L4	5-24
3L7		COIL, RADIO FREQUENCY: same as 3L4	5-24
3L8		COIL, RADIO FREQUENCY: same as 3L3	5-24
3L9		COIL, RADIO FREQUENCY: same as 3L4	5-24
3L10		COIL, RADIO FREQUENCY: same as 3L4	5-24
3L11		COIL, RADIO FREQUENCY: same as 3L3	5-24
3L12		COIL, RADIO FREQUENCY: single layer wound, magnet wire; 120 uh inductance, 4 ohms, max dc, 500 ma; mfr code 82142, part no. 10404-36	5-24
3L13		COIL, RADIO FREQUENCY: same as 3L12	5-24
3L14		NOT USED	
3L15		NOT USED	
3L16		NOT USED	
3L17		COIL, RADIO FREQUENCY: same as 3L1	
3M1		AMMETER: 100-0-100 ua scale, $\pm 3\%$ deflection; markings and pointer black on white background; mfr code 16688, part no. 10-1079	5-25
3M2		COUNTER, ROTATING, FIXED, MOUNTING: 2 banks of 5 figures, 2 banks of 4 figures; nonresetting; ccw rotation; mfr code 13499, part no. 015-0681-00	5-25
3MP1		SHAFT: cres; 0.1865 in. dia by 1.163 in. lg overall; one end tapped, other end slotted; mfr code 13499, part no. 543-3163-002	5-25
3MP2		BEARING, SLEEVE: bronze; flanged; 0.251 in. id, 0.359 in. od, 0.130 in. lg; 0.471 in. od by 0.033 in. w flange; mfr code 70417, part no. F346-4MILL6085A	5-25
3MP3		BEARING, SLEEVE: bronze; flanged; 0.1885 in. id, 0.3595 in. od, 0.125 in. lg; mfr code 70417, part no. F347-4MILL6085A	5-25
3MP4		BEARING, SLEEVE: same as 3MP2	5-25
3MP5		BEARING, BALL, ANNULAR: single row; radial; 0.422 in. od, 0.1875 in. id, 0.1250 in. thk; mfr code 40920, part no. S6632FCHHP37L01	5-25
3MP6		BEARING, BALL, ANNULAR: same as 3MP5	5-25
3MP7		HUB, DIAL: cres; 0.251 in. id, 0.375 in. od, 0.315 in. lg overall, undercut; mfr code 13499, part no. 543-3145-002	5-25
3MP8		WHEEL, DETENT: cres; 0.312 in. id countersunk both sides, 1-1/16 in. od; w/8 notches 30° apart; mfr code 13499, part no. 543-3146-002	5-25
3MP9		SHAFT, SWITCH: cres; 0.249 in. od by 1-19/32 in. lg; grooved; mfr code 13499, part no. 543-3150-002	5-25
3MP10		GEAR ASSEMBLY: c/o 2 gears each w/161 teeth, 30° pressure angle, 3.3541 in. pitch dia, 1 hub and 1 retaining ring; mfr code 13499, part no. 543-3083-002	5-25
3MP11		BEARING, SLEEVE: same as 3MP2	5-25
3MP12		GEAR ASSEMBLY: c/o 2 gears each w/90 teeth, 20° pressure angle, 1.8750 in. pitch dia, 1 gear w/36 teeth, 20° pressure angle, 0.750 in. pitch dia, 2 bearings, 1 shim, 1 retaining ring and 2 springs; mfr code 13499, part no. 543-3100-002; (incl 3MP13 thru 3MP16)	5-25
3MP13		BEARING, SLEEVE: bronze; 0.183 in. id, 0.318 in. od body; 0.255 in. lg; 0.380 in. dia by 0.064 in. w flange; mfr code 70417, part no. F311MILL6085A; (P/O3MP12)	5-25
3MP14		BEARING, SLEEVE: same as 3MP13 (P/O3MP12)	5-25
3MP15		SPRING, HELICAL, EXTENSION: music wire, 0.020 in. dia, 0.090 in. id, 0.130 in. od; mfr code 13499, part no. 506-2068-002; (P/O3MP12)	5-25
3MP16		SPRING, HELICAL, EXTENSION: same as 3MP15 (P/O3MP12)	5-25



TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3MP17		GEAR, SPUR: cres; gear w/180 teeth, 20° pressure angle, 3.750 in. pitch dia; ind steel hub; mfr code 13499, part no. 543-3102-002	5-25
3MP18		GEAR ASSEMBLY: incl 1 gear w/16 teeth, 0.3333 in. pitch dia and 1 gear w/17 teeth, 0.3541 in. pitch dia, both w/20° pressure angle; mfr code 13499, part no. 543-3103-002	5-25
3MP19		SPRING, HELICAL, EXTENSION: cres wire, 0.022 in. dia; 0.112 in. id, 0.156 in. od, 0.3375 freq lg; mfr code 13499, part no. 543-3080-002	5-25
3MP20		NOT USED	
3MP21		PLATE, AIR DUCT: aluminum, chromate dip, 0.063 in. thk by 3-1/2 in. w by 9/16 in. h by 10.375 in. lg; mfr code 13499, part no. 543-7584-004	5-25
3MP22		SHAFT: cres; 3/8 in. dia by 0.522 in. lg overall; undercut and grooved; one end tapped; mfr code 13499, part no. 543-3113-002	5-25
3MP23		GEAR ASSEMBLY: c/o 1 spur gear w/36 teeth, 20° pressure angle, 0.750 in. pitch dia and 1 bevel gear 3/16 teeth, 20° pressure angle, 0.500 in. pitch dia; mfr code 13499, part no. 543-3178-002; (incl 3MP24)	5-25
3MP24		BEARING, SLEEVE: bronze; 0.1885 in. id, 0.251 in. od, 0.255 in. lg; mfr code 70417, part no. A205-1MILL6085; (P/O3MP23)	5-25
3MP25		GEAR, SPUR: plain, cres; 36 teeth, 20° pressure angle, 0.7500 pitch dia, 0.250 width of face, 0.3755 in. id; mfr code 13499, part no. 545-7740-002; (incl 3MP26)	5-25
3MP26		BEARING, BALL, ANNULAR: same as 3MP5 (P/O3MP25)	5-25
3MP27		GEAR, SPUR: plain, aluminum alloy gear, 54 teeth, 20° pressure angle, 1.1250 in. pitch dia, 0.235 in. w of face, stainless steel, single row radial bearing; mfr code 13499, part no. 545-7743-002	5-25
3MP28		BEARING, BALL, ANNULAR: single row, radial 0.1875 in. id 0.500 in. od, 0.1969 in. w; mfr code 21335, part no. A33KDD5FS160; (P/O3MP27)	5-25
3MP29		ACTUATOR, BRAKE: stainless steel; approx 3/16 in. by 0.3046 in. by 0.8195 in. overall; mfr code 13499, part no. 543-3136-002	5-25
3MP30		GEAR ASSEMBLY: c/o 2 spur gears ea w/36 teeth, 0.750 in. pitch dia and 1 spur gear w/18 teeth, 0.3750 in. pitch dia, all w/20° pressure angle; mfr code 13499, part no. 543-3162-002	5-25
3MP31		SPRING, HELICAL, COMPRESSION: music wire; 0.010 in. dia, 0.070 in. id, 0.090 in. od, 9/16 in. free lg; mfr code 13499, part no. 543-3165-002	5-25
3MP32		SPRING, HELICAL, COMPRESSION: music wire, 0.022 in. dia, 0.331 in. id, 0.375 in. od, 0.438 in. free lg; mfr code 13499, part no. 543-3166-002	5-25
3MP33		GEAR, SPUR: plain, aluminum alloy; 36 teeth, 20° pressure angle, 0.7500 in. pitch dia, 0.235 in. w face; incl stainless steel, single row radial bearing; mfr code 13499, part no. 545-7745-002	5-25
3MP34		BEARING, BALL, ANNULAR: same as 3MP28	5-25
3MP35		BLACK, COUPLING: stainless steel; 19/32 in. id, 1-3/4 in. od, 0.156 in. lg; grooved; mfr code 13499, part no. 543-3192-002	5-25
3MP36		BLACK, COUPLING: same as 3MP35	5-25
3MP37		COUPLING HALF, SHAFT: cres; split hub, 0.250 in. dia; 1-3/4 in. dia by 0.374 in. lg; mfr code 13499, part no. 543-3066-002	5-25
3MP38		COUPLING HALF, SHAFT: stainless steel; split hub, 0.187 in. dia; 1-3/4 in. dia by 0.374 in. lg approx overall; incl 1 groove pin; mfr 13499, part no. 543-3099-002	5-25
3MP39		PULLEY, GROOVE: stainless steel; 10 grooves equally spaced 36° apart; incl 1 pulley washer; mfr code 13499, part no. 543-3075-002	5-25
3MP40		BEARING, BALL, ANNULAR: same as 3MP5	5-25

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3MP41		BEARING, BALL, ANNULAR: same as 3MP5	
3MP42		BEARING, SLEEVE: bronze; 0.126 in. id, 0.252 in. od, 0.146 in. lg; 0.3150 in. dia by 0.0493 in. w flange; mfr code 70417, part no. F219MILL6085A	5-25
3MP43		BEARING, BALL, ANNULAR: same as 3MP5	5-25
3MP44		NOT USED	
3MP45		BEARING, SLEEVE: same as 3MP42	5-25
3MP46		PULLEY, GROOVE: same as 3MP39	5-25
3MP47		CLAMP, LOOP: aluminum; accommodates 0.250 in. dia material; mfr code 13499, part no. 543-3078-002	5-25
3MP48		GEAR, SPUR: 18 teeth, 20° pressure angle, 0.375 in. pitch dia; mfr code 13499, part no. 543-3124-002	5-25
3MP49		SHAFT: stainless steel; 0.1875 in. dia by 1.875 in. lg overall; grooved; mfr code 13499, part no. 543-3128-002	5-25
3MP50		SPRING, HELICAL, EXTENSION: same as 3MP15	5-25
3MP51		SPRING, HELICAL, EXTENSION: same as 3MP15	5-25
3MP52		GEAR, SPUR: 159 teeth, 20° pressure angle, 3.3125 in. pitch dia, 0.437 in. dia bore; mfr code 13499, part no. 543-3076-002	5-25
3MP53		HUB: stainless steel; 0.1887 in. dia counterbore to 0.253 in. id, 0.500 in. od, 0.277 in. lg; stepped; mfr code 13499, part no. 543-3122-002	5-25
3MP54		SHAFT: stainless steel; 0.1872 in. dia by 1.562 in. lg; grooved; mfr code 13499, part no. 543-3125-002	5-25
3MP55		GEAR, SPUR: 159 teeth, 20° pressure angle, 3.3125 in. pitch dia, 0.250 in. dia bore; mfr code 13499, part no. 543-3131-002	5-25
3MP56		SPRING, HELICAL, EXTENSION: same as 3MP15	5-25
3MP57		SPRING, HELICAL, EXTENSION: same as 3MP15	5-25
3MP58		SPRING, HELICAL, EXTENSION: same as 3MP15	5-25
3MP59		SPRING, HELICAL, EXTENSION: same as 3MP15	5-25
3MP60		GEAR, SPUR: aluminum; 159 teeth, 20° pressure angle, 3.3125 in. pitch dia; mfr code 13499, part no. 543-3121-002	5-25
3MP61		GEAR, SPUR: 159 teeth, 20° pressure angle, 3.3125 in. pitch dia, 0.287 in. dia bore; mfr code 13499, part no. 543-3077-002	5-25
3MP62		GEAR, SPUR: same as 3MP61	5-25
3MP63		GEAR, SPUR: 18 teeth, 20° pressure angle, 0.375 in. pitch dia; mfr code 13499, part no. 543-3123-002	5-25
3MP64		GEAR, SPUR: same as 3MP63	5-25
3MP65		SHAFT: stainless steel; 0.1247 in. dia by 1.250 in. lg overall; 0.866 in. between grooves; mfr code 13499, part no. 543-3126-002	5-25
3MP66		GEAR, SPUR: 159 teeth, 20° pressure angle, 3.3125 in. pitch dia, 0.2187 in. dia bore; mfr code 13499, part no. 546-3130-002	5-25
3MP67		SHAFT: stainless steel; 0.1247 in. dia by 1.250 in. lg overall; 0.901 in. between grooves; mfr code 13499, part no. 543-3127-002	5-25
3MP68		IDLER: c/o shaft, idler lock and retaining ring; approx 1-3/8 in. dia by 29/32 in. lg; mfr code 13499, part no. 543-3087-002	5-25
3MP69		COUPLING HALF, SHAFT: same as 3MP38	5-25
3MP70		COUPLING HALF, SHAFT: same as 3MP38	5-25
3MP71		CLAMP, LOOP: same as 3MP47	5-25
3MP72		CLAMP, LOOP: same as 3MP47	5-25
3MP73		BEARING, BALL, ANNULAR: single row; radial; 0.422 in. od, 0.1250 in. id, 0.1406 in. thk; mfr code 40920, part no. S618FCHHP37L01	5-25
3MP74		BEARING, BALL, ANNULAR: same as 3MP73	5-25

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3MP75		BEARING, BALL, ANNULAR: same as 3MP5	5-25
3MP76		BEARING, BALL, ANNULAR: same as 3MP5	5-25
3MP77		CLAMP, LOOP: same as 3MP47	5-25
3MP78		GEAR, BEVEL: brass; 16 teeth, diametral pitch 32; 20° pressure angle, pitch dia 0.500; mfr code 13499, part no. 543-3138-002	5-25
3MP79		CLAMP: cres; type 304; 0.500 in. lg by 0.375 in. w by 0.250 in. dia; mfr code 13499, part no. 544-6037-002	5-25
3MP80		SPRING, HELICAL EXTENSION: same as 3MP15	5-25
3MP81		SPRING, HELICAL EXTENSION: same as 3MP15	5-25
3MP82		BEARING, BALL, ANNULAR: same as 3MP5	5-25
3MP83		BELT, POSITIVE DRIVE: rubber w/fiber cords; 63 teeth, 0.187 in. pitch; 0.125 in. w o/a, 11.78/in. pitch circumference; mfr code 97488, part no. 9471X1-8	
3O1		KNOB: setscrew type; phenolic body, 2-5/16 in. dia; mfr code 74970, part no. 116-217	5-25
3O2		KNOB: setscrew type; phenolic body; two 10-32 mtg holes spaced 90° apart; 1/4 in. dia shaft; mfr code 74970, part no. 116-260	5-25
3O3		KNOB: setscrew type; black phenolic body; 3/16 in. dia shaft; mfr code 72512, part no. 1450AU	5-25
3R1		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF471K	5-25
3R2		RESISTOR, FIXED, COMPOSITION: same as 3R1	5-25
3R3		RESISTOR, FIXED, COMPOSITION: same as 3R1	5-25
3R4		RESISTOR, FIXED, COMPOSITION: same as 3R1	5-25
3R5		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF153K	5-24
3S1		SWITCH SECTION, ROTARY: 2 moving, 17 fixed contacts, 2 pole 230 vac, 0.25 amp dc; mfr code 81716, part no. 82661K	5-25
3S2		SWITCH, TOGGLE: spst; ac-dc, 250 v, 3 amps, 125 v, 6 amps, mfr code 04009, part no. 86709BM	5-25
3XDS1		LAMPHOLDER: for use with 6, 14, or 28 vdc bulb; mfr code 72914, part no. A9849-1	5-25
3XDS2		LAMPHOLDER: same as 3XDS1	5-25
3XDS3		LAMPHOLDER: same as 3XDS1	5-25
3XDS4		LAMPHOLDER: same as 3XDS1	5-25
3A1		CONVERTER-OSCILLATOR CV-731/URC, FREQUENCY DIVIDER: 100 kc frequency input; 1 kc and 4 kc output frequencies; 27.5 v dc operating voltage; 1.437 in. by 4.427 in. by 4.846 in. o/a; mfr code 13499, part no. 542-7697-004	
3A1C1		CAPACITOR, FIXED, PAPER DIELECTRIC: 2,200 uuf ±20%, 600 v dc; mfr code 56289, part no. 196P22206S4	5-35
3A1C2		CAPACITOR, FIXED, MICA DIELECTRIC: 2,400 uuf ±2%, 300 v dc; mfr code 72136, part no. CM20E242G300WV	5-35
3A1C3		CAPACITOR, FIXED, MICA DIELECTRIC: 2,000 uuf ±2%, 500 v dc; mfr code 72136, part no. VKHTCM20E202G500WV	5-35
3A1C4		CAPACITOR, FIXED, GLASS DIELECTRIC: 13,000 uuf ±2%, 100 v dc; mfr code 72136, part no. CM35F133G03100V	5-35
3A1C5		CAPACITOR, FIXED, MICA DIELECTRIC: 7,500 uuf ±2%, 500 v dc; mfr code 72136, part no. CM35E752GO	5-35
3A1C6		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A1C1	5-35
3A1C7		CAPACITOR, FIXED, PAPER DIELECTRIC: 15,000 uuf ±20%, 100 v dc; mfr code 56289, part no. 196P15301S4	5-35

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A1C8		CAPACITOR, FIXED, GLASS DIELECTRIC: 20,000 uuf $\pm 2\%$ , 100 v dc; mfr code 72136, part no. CM35F203G03100V	5-34
3A1C9		CAPACITOR, FIXED, GLASS DIELECTRIC: same as 3A1C8	5-34
3A1C10		CAPACITOR, FIXED, GLASS DIELECTRIC: same as 3A1C8	5-34
3A1C11		CAPACITOR, FIXED, GLASS DIELECTRIC: same as 3A1C8	5-34
3A1C12		CAPACITOR, FIXED, PAPER DIELECTRIC: 10,000 uuf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 196P10301S4	5-34
3A1C13		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 196P10401S4	5-34
3A1C14		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A1C13	5-34
3A1C15		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A1C13	5-34
3A1C16		CAPACITOR, FIXED, ELECTROLYTIC: MIL type CL23CH100TN3	5-34
3A1CR1		SEMICONDUCTOR DEVICE, DIODE: mfr code 07688, JETEC type 1N198	5-35
3A1CR2		NOT USED	
3A1CR3		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 73293, part no. 1N457	5-35
3A1CR4		SEMICONDUCTOR DEVICE, DIODE: same as 3A1CR3	5-35
3A1CR5		SEMICONDUCTOR DEVICE, DIODE: same as 3A1CR3	5-35
3A1CR6		SEMICONDUCTOR DEVICE, DIODE: same as 3A1CR3	5-35
3A1CR7		SEMICONDUCTOR DEVICE, DIODE: same as 3A1CR3	5-34
3A1CR8		SEMICONDUCTOR DEVICE, DIODE: same as 3A1CR3	5-34
3A1J1		JACK, TIP: std phone tip, accommodated; teflon insulation; mfr code 98291, part no. SKT2BC	5-34
3A1J2		JACK, TIP: same as 3A1J1	5-34
3A1J3		JACK, TIP: same as 3A1J1	5-34
3A1L1		COIL, RADIO FREQUENCY: universal wound, 3 pi, #38 AWG; 1 mh 60 ma; mfr code 99800, part no. BS222	5-34
3A1P1		CONNECTOR, PLUG, ELECTRICAL: printed circuit plug feedthru, P/O frequency divider, built in	5-35
3A1Q1		TRANSISTOR: MIL type 2N117	5-35
3A1Q2		TRANSISTOR: same as 3A1Q1	5-35
3A1Q3		TRANSISTOR: same as 3A1Q1	5-35
3A1Q4		TRANSISTOR: same as 3A1Q1	5-35
3A1Q5		TRANSISTOR: same as 3A1Q1	5-35
3A1Q6		TRANSISTOR: same as 3A1Q1	5-34
3A1Q7		TRANSISTOR: same as 3A1Q1	5-34
3A1R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF225K	5-35
3A1R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF512J	5-35
3A1R3		RESISTOR, FIXED, FILM: MIL type RN65B4641F	5-35
3A1R4		RESISTOR, FIXED, FILM: 23,700 ohms $\pm 1\%$ , 1/4 w; mfr code 19701, part no. MF1-4-50PPM23-7K	5-35
3A1R5		RESISTOR, FIXED, FILM: 19,600 ohms $\pm 1\%$ , 1/4 w; mfr code 19701, part no. MF1-4-50PPM19-6K	5-35
3A1R6		RESISTOR, FIXED, FILM: same as 3A1R3	5-35
3A1R7		RESISTOR, FIXED, FILM: same as 3A1R3	5-35
3A1R8		RESISTOR, FIXED, FILM: same as 3A1R4	5-35
3A1R9		RESISTOR, FIXED, FILM: same as 3A1R4	5-35
3A1R10		RESISTOR, FIXED, FILM: same as 3A1R5	5-35
3A1R11		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF273K	5-35
3A1R12		RESISTOR, FIXED, FILM: same as 3A1R3	5-34
3A1R13		RESISTOR, FIXED, FILM: same as 3A1R4	5-34

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A1R14		RESISTOR, FIXED, FILM: same as 3A1R4	5-34
3A1R15		RESISTOR, FIXED, FILM: same as 3A1R3	5-34
3A1R16		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF183K	5-34
3A1R17		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF271K	5-34
3A1R18		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF272J	5-34
3A1T1		TRANSFORMER, PULSE: interstage type; 20 v amplitude, 1 usec rise time, 100 kc P.R.F. primary; 1.2 usec rise time, 3 usec pulse width, 6 usec recovery time secondary and tertiary windings, 1 to 1.4 to 1 overall turns ratio; mfr code 80483, part no. 02-310	5-35
3A1T2		TRANSFORMER, PULSE: interstage type; 20 v amplitude, 1 usec rise time, 20 kb P.R.F. primary; 1.2 usec rise time, 3 usec pulse width, 20 usec recovery time secondary and tertiary windings; 2 to 1.7 to 1 overall turns ratio; mfr code 80483, part no. 02-312	5-35
3A1T3		TRANSFORMER, PULSE: interstage type; 20 v amplitude, 1 usec rise time, 4 kc P.R.F. primary; 1.2 usec rise time, 4 usec pulse width, 100 usec recovery time secondary and tertiary windings; 1.2 to 1 to 1 overall turns ratio; mfr code 80483, part no. 02-311	5-34
3A1TB1		PRINTED CIRCUIT BOARD: plastic; incl 6 terminals, 78 tubelets and 9 eyelets; mfr code 13499, part no. 542-7699-004	5-35
3A1TB2		PRINTED CIRCUIT BOARD: plastic; incl 6 terminals, 48 tubelets and 5 eyelets; mfr code 13499, part no. 542-7705-004	5-35
3A1Z1		FREQUENCY DIVIDER SUBASSEMBLY: c/o 5 transistors, 5 diodes, 12 resistors, 7 capacitors, 2 transformers, and 1 printed circuit board; mfr code 13499, part no. 542-7700-004	
3A1Z2		FREQUENCY DIVIDER SUBASSEMBLY: c/o 1 transformer, 1 choke, 9 capacitors, 2 transistors, 2 diodes, 6 resistors, and 1 circuit board; mfr code 13499, part no. 542-7706-004	
3A2		CONVERTER-OSCILLATOR CV-731/URC, SIDESTEP OSCILLATOR: 1 kc and 24 mc input; 2.397 to 2.4 mc output; 6.3 v ac, 400 cps, +130 v dc operating voltages; 1-7/16 in. by 4-7/16 in. by 4-3/4 in. o/a; mfr code 13499, part no. 543-1501-004	
3A2C1		CAPACITOR, FIXED, MICA DIELECTRIC: 33 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q33DJ	5-32
3A2C2		CAPACITOR, FIXED, PAPER DIELECTRIC: 33,000 uuf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 196P33302S4	5-32
3A2C3		CAPACITOR, FIXED, PAPER DIELECTRIC: 6800 uuf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 186P68202S1	5-32
3A2C4		CAPACITOR, FIXED, MICA DIELECTRIC: 110 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5T11EJ	5-32
3A2C5		CAPACITOR, FIXED, ELECTROLYTIC: MIL type CL24BQ010UP3	5-32
3A2C6		CAPACITOR, FIXED, PAPER DIELECTRIC: 33,000 uuf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. P107069	5-32
3A2C7		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.033 uf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 86P33301S3	5-32
3A2C8		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A2C6	5-32
3A2C9		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A2C3	5-32
3A2C10		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A2C6	5-32
3A2C11		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A2C6	5-32
3A2C12		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A2C6	5-32

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A2C13		CAPACITOR, FIXED, MICA DIELECTRIC: 56 uuf ±5%, 500 v dc; mfr code 14655, part no. 22H5Q56EJ	5-32
3A2C14		CAPACITOR, FIXED, PAPER DIELECTRIC: 68,000 uuf ±20%, 200 v dc; mfr code 56289, part no. P107100	5-32
3A2C15		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A2C6	5-32
3A2C16		CAPACITOR, FIXED, MICA DIELECTRIC: 20 uuf ±5%, 500 v dc; mfr code 14655, part no. 22H5Q2C	5-32
3A2C17		CAPACITOR, FIXED, MICA DIELECTRIC: 200 uuf ±5%, 500 v dc; mfr code 14655, part no. 22H5T2EJ	5-32
3A2C18		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A2C4	5-33
3A2C19		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A2C7	5-33
3A2C20		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A2C3	5-33
3A2C21		CAPACITOR, VARIABLE, GLASS DIELECTRIC: 1.0 to 7.5 uuf, 500 vdc; mfr code 73899, part no. VC9G	5-33
3A2C22		CAPACITOR, FIXED, MICA DIELECTRIC: 68 uuf ±2%, 500 v dc; mfr code 14655, part no. 22H5Q68EG	5-33
3A2C23		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A2C6	5-33
3A2C24		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A2C1	5-33
3A2C25		CAPACITOR, FIXED, MICA DIELECTRIC: 150 uuf ±5%, 500 v dc; mfr code 14655, part no. 22H5T15EJ	5-33
3A2C26		CAPACITOR, FIXED, MICA DIELECTRIC: 56 uuf ±2%, 500 v dc; mfr code 14655, part no. 22H5Q6EG	5-33
3A2C27		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A2C17	5-33
3A2C28		CAPACITOR, FIXED, PAPER DIELECTRIC: 10,000 uuf ±20%, 100 v dc; mfr code 56289, part no. 186P10301S1	5-33
3A2C29		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A2C6	5-33
3A2C30		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A2C6	5-33
3A2C31		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A2C6	5-32
3A2C32		CAPACITOR, FIXED, MICA DIELECTRIC: 510 uuf ±5%, 300 v dc; mfr code 14655, part no. 22H5T51EJ	5-33
3A2E1		SHIELD, ELECTRON TUBE: aluminum; 0.465 in. id, 0.495 in. od, 1-7/16 in. lg; incl insert; mfr code 13499, part no. 542-4782-002	5-32
3A2E2		SHIELD, ELECTRON TUBE: same as 3A2E1	5-32
3A2E3		SHIELD, ELECTRON TUBE: same as 3A2E1	5-33
3A2E4		SHIELD, ELECTRON TUBE: same as 3A2E1	5-33
3A2FL1		FILTER, BAND PASS: 455 kc frequency; 0.200 kc at 3 db - bandwidth; 23,000 ohms input and output impedance; mfr code 95105, part no. F455Q1	5-33
3A2J1		JACK, TIP: std phone tip accommodated; teflon insulation; mfr code 98291, part no. SKT2BC	5-32
3A2J2		JACK, TIP: same as 3A2J1; (p/o Z1)	5-32
3A2K1		RELAY, ARMATURE: 2C contact arrangement, 250 amp at 24 v dc or 115 v ac resistive; 1 inductive winding, 26.5 v dc, 800 ohms; mfr code 04221, part no. 95-2944	5-32
3A2K2		RELAY, ARMATURE: same as 3A2K1	5-32
3A2L1		COIL, RADIO FREQUENCY: universal wound pi sections; no. 42 AWG; 1 mh, 20 ma; mfr code 99800, part no. BP225	5-32
3A2L2		COIL, RADIO FREQUENCY: torodial wound; approx 91 turns no. 38 AWG insulated copper wire; 1.945 mc; mfr code 81815, part no. X048-1; (p/o Z1)	5-32
3A2L3		COIL, RADIO FREQUENCY: same as 3A2L1	5-33
3A2Q1		TRANSISTOR: mfr code 07688, JETEC type 2N1150	5-32

TABLE 6-2. (Continued)

CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A2Q2		TRANSISTOR: same as 3A2Q1	5-32
3A2R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF472K	5-32
3A2R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF333K	5-32
3A2R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF683K	5-32
3A2R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF334K	5-32
3A2R5		RESISTOR, FIXED, COMPOSITION: same as 3A2R4	5-32
3A2R6		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF471K	5-32
3A2R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-32
3A2R8		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF562K	5-32
3A2R9		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF682K	5-32
3A2R10		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF104K	5-32
3A2R11		RESISTOR, FIXED, COMPOSITION: same as 3A2R3	5-32
3A2R12		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF153K	5-32
3A2R13		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF563K	5-32
3A2R14		RESISTOR, FIXED, COMPOSITION: same as 3A2R10	5-32
*3A2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-33
*3A2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF273K	5-33
*3A2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF473K	5-33
*3A2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF683K	5-33
*3A2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF124K	5-33
*3A2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF184K	5-33
*3A2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF274K	5-33
*3A2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF334K	5-33
*3A2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF474K	5-33
*3A2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF564K	5-33
*3A2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF333K	5-33
3A2R16		RESISTOR, FIXED, COMPOSITION: same as 3A2R10	5-33
3A2R17		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF273K	5-33
3A2R18		RESISTOR, FIXED, COMPOSITION: same as 3A2R6	5-33
3A2R19		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF183K	5-33
3A2R20		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF222K	5-33
3A2R21		RESISTOR, FIXED, COMPOSITION: same as 3A2R9	5-33
3A2R22		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF273K	5-33
3A2T1		TRANSFORMER, RADIO FREQUENCY: 2 windings, 438 turns approx, 140 turns approx; #39 AWG, 455 kc; mfr code 13499, part no. 544-9788-003	5-33
3A2T2		TRANSFORMER, RADIO FREQUENCY: torodial wound; 2.4 mc, mfr code 81815, part no. X046-1; (p/o 3A2Z1)	5-32
3A2TB1		PRINTED CIRCUIT BOARD: plastic; incl 26 terminals, 64 tubelets and 1 eyelet; mfr code 13499, part no. 543-2499-003	5-32
3A2TB2		PRINTED CIRCUIT BOARD: plastic; incl 28 terminals, 37 tubelets and 1 eyelet; mfr code 13499, part no. 544-2618-003	5-33
3A2V1		ELECTRON TUBE: subminiature pentode; mfr code 82219, part no. 5636	5-32
3A2V2		ELECTRON TUBE: same as 3A2V1	5-32
3A2V3		ELECTRON TUBE: same as 3A2V1	5-33
3A2V4		ELECTRON TUBE: same as 3A2V1	5-33
3A2Y1		CRYSTAL UNIT, QUARTZ: 1 plate, 1942.000 kc $\pm$ 0.0025%; fundamental mode of operation; etched; mfr code 85675, part no. MO7540	5-33

\*Chosen per operational requirements

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A2Y2		CRYSTAL UNIT, QUARTZ: 1 plate, 1944.00 kc $\pm 0.0025\%$ ; fundamental mode of operation; etched; mfr code 85675, part no. MO7542	5-33
3A2Y3		CRYSTAL UNIT, QUARTZ: 1 plate, 1943.00 kc $\pm 0.0025\%$ ; fundamental mode of operation; etched; mfr code 85675, part no. MO7541	5-33
3A2Y4		CRYSTAL UNIT, QUARTZ: 1 plate, 1945.00 kc $\pm 0.0025\%$ ; fundamental mode of operation; etched; mfr code 85675, part no. MO7543	5-33
3A2XY1		SOCKET ASSEMBLY, CRYSTAL: accommodates four HC-6 type crystal holders and 2 mix type relays; mfr code 02660, part no. 33-817	5-32
3A2Z1		TRANSFORMER, RADIO FREQUENCY: torodial wound; 2.4 mc; (incl 3A2T2, 3A2L2, 3A2J2); mfr code 13499, part no. 543-2510-004	5-33
3A2Z2		AMPLIFIER SUBASSEMBLY: c/o 1 choke, 2 tubes, 1 coaxial cable, 2 toroid assemblies, 7 resistors, 14 capacitors, and 1 printed circuit board; mfr code 13499, part no. 543-2515-004	
3A2Z3		OSCILLATOR SUBASSEMBLY: c/o 1 crystal socket, 1 choke, 2 tubes, 2 transistors, 18 capacitors, 1 board, 13 resistors, 1 filter, 2 relays, cable, and hardware; mfr code 13499, part no. 543-2514-004	
3A3		CONVERTER-OSCILLATOR CV-731/URC, SMO, MAIN CHASSIS: consists of oscillator, signal IF, IF Mixer, Master Interpolation Oscillator, 4 KC Spectrum Generator, and Reference IF; mfr code 13499, part no. 542-7791-005	
3A3C1		NOT USED	
3A3C2		CAPACITOR, FIXED, PAPER DIELECTRIC: 15,000 uuf $\pm 20\%$ , 100 vdc; mfr code 56289, part no. 186P15301S3	5-36
3A3C3		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 8.0 to 75.0 uuf, 350 vdc, mfr code 72982, part no. 3172000U2P034R; (p/o 3A3Z1)	5-36
3A3C4		CAPACITOR, FIXED, MICA DIELECTRIC: 82 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5Q82EG; (p/o 3A3Z1)	5-36
3A3C5		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 10,000 uuf $+100\%$ $-20\%$ , 500 v dc; mfr code 71590, part no. DA049-123B	5-36
3A3C6		CAPACITOR, FIXED, MICA DIELECTRIC: 22 uuf $\pm 5\%$ , 500 v dc; mfr code 14655; part no. 22H5Q22CJ	5-36
3A3C7		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 5.0 to 37.5 uuf, 350 v dc; mfr code 72982, part no. 3172000C0P039R; (p/o 3A3Z2)	5-36
3A3C8		CAPACITOR, FIXED, MICA DIELECTRIC: 68 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5Q68EG; (p/o 3A3Z2)	5-36
3A3C9		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C5	5-36
3A3C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C5	5-36
3A3C11		CAPACITOR, FIXED, MICA DIELECTRIC: 15 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q15CJ (p/o 3A3Z3)	5-36
3A3C12		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 3.0 to 18.0 uuf, 350 vdc; mfr code 72982, part no. 317200C0P017R; (p/o 3A3Z3)	5-36
3A3C13		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C5	5-36
3A3C14		CAPACITOR, FIXED, MICA DIELECTRIC: 10 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q1CJ; (p/o 3A3Z3)	5-36
3A3C15		CAPACITOR, FIXED, MICA DIELECTRIC: 39 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q39DJ	5-36
3A3C16		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C5	5-36
3A3C17		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C5	5-36
3A3C18		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C5	5-36
3A3C19		CAPACITOR, FIXED, PAPER DIELECTRIC: 220,000 uuf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 103P22301	5-36



TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3C20		CAPACITOR, FIXED, MICA DIELECTRIC: 510 uuf $\pm 2\%$ , 300 v dc; mfr code 14655, part no. 22H5T51EG	5-36
3A3C21		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 186P10402S15	5-36
3A3C22		CAPACITOR, FIXED, MICA DIELECTRIC: 2,000 uuf $\pm 10\%$ , 500 v dc; mfr code 53021, part no. M42000	5-36
3A3C23		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3C21	5-36
3A3C24		CAPACITOR, FIXED, MICA DIELECTRIC: 470 uuf $\pm 2\%$ , 300 v dc; mfr code 14655, part no. 22H5T47EG	5-36
3A3C25		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3C24	5-36
3A3C26		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 186P10401T15	5-36
3A3C27		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3C6	5-36
3A3C28		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3C21	5-36
3A3C29		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 10 uuf $\pm 1$ uuf, 500 v dc (p/o 3A3Z4); mfr code 72982, part no. 280901511E9450B; (p/o 3A3Z4)	5-36
3A3C30		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 3.0 to 18.0 uuf, 350 v dc; mfr code 72982, part no. 3188001; (p/o 3A3Z4)	5-36
3A3C31		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 186P10402T15	5-36
3A3C32		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 2.0 uuf $\pm 1/4$ uuf, 500 v dc; mfr code 72982, part no. 331026C0K0209C	5-36
3A3C33		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3C6	5-36
3A3C34		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C32	5-36
3A3C35		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3C29 (p/o 3A3Z5)	5-36
3A3C36		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A3C30 (p/o 3A3Z5)	5-36
3A3C37		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 300 v dc; mfr code 56289, part no. 103P10403	5-36
3A3C38		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3C22	5-36
3A3C39		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3C2	5-36
3A3C40		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 4.7 uuf $\pm 20\%$ , 35 v dc; mfr code 56289, part no. 150D475X0035B2	5-36
3A3C41		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 103P10401	5-36
3A3C42		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3C41	5-36
3A3CR1		SEMICONDUCTOR DEVICE, DIODE: MIL type 1N251	5-36
3A3CR2		SEMICONDUCTOR DEVICE, DIODE: same as 3A3CR1	5-36
3A3CR3		SEMICONDUCTOR DEVICE, DIODE: same as 3A3CR1	5-36
3A3CR4		SEMICONDUCTOR DEVICE, DIODE: same as 3A3CR1	5-36
3A3CR5		SEMICONDUCTOR DEVICE, DIODE: same as 3A3CR1	5-36
3A3CR6		SEMICONDUCTOR DEVICE, DIODE: same as 3A3CR1	5-36
3A3CR7		SEMICONDUCTOR DEVICE, DIODE: mfr code 07688, JETEC type 1N198	5-36
3A3E1		NUT, PLAIN, CLINCH: P/O TB1, built in	5-36
3A3E2		NUT, PLAIN, CLINCH: same as E1; P/O TB1, built in	5-36
3A3E3		NUT, PLAIN, CLINCH: same as E1; P/O TB1, built in	5-36
3A3E4		NUT, PLAIN, CLINCH: same as E1; P/O TB1, built in	5-36
3A3E5		TERMINAL, STUD: tube pin type brass conductor, teflon insulation; 0.172 in. dia by 0.350 in. lg overall; mfr code 12615, part no. 2619	5-36
3A3E6		TERMINAL, STUD: same as 3A3E5	5-36

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3E7		NOT USED	
3A3E8		NOT USED	
3A3E9		NOT USED	
3A3E10		NOT USED	
3A3E11		NOT USED	
3A3E12		NOT USED	
3A3E13		NOT USED	
3A3E14		NOT USED	
3A3E15		SHIELD, ELECTRON TUBE: 7 pin miniature; brass; incl copper insert; mfr code 13499, part no. 541-6550-003	5-36
3A3E16		SHIELD, ELECTRON TUBE: 9 pin noval; brass; incl copper insert; mfr code 13499, part no. 541-6553-003	5-36
3A3E17		SHIELD, ELECTRON TUBE: 7 pin miniature; brass; incl copper insert; mfr code 13499, part no. 541-6551-003	5-36
3A3E18		SHIELD, ELECTRON TUBE: same as 3A3A15	5-36
3A3E19		INSERT, ELECTRON TUBE SHIELD: cadmium plated copper; w/7 tabs bent 40°; mfr code 13499, part no. 541-6532-003	5-36
3A3E20		INSERT, ELECTRON TUBE SHIELD: same as 3A3E19	5-36
3A3E21		INSERT, ELECTRON TUBE SHIELD: same as 3A3E19	5-36
3A3E22		INSERT, ELECTRON TUBE SHIELD: cadmium plated copper; w/8 tabs bent 40°; mfr code 13499, part no. 541-6533-003	5-36
3A3E23		CORE, ADJUSTABLE TUNING: powdered iron; permeability 61 at 1 mc; 0.5 to 32 mc frequency range; mfr code 78488, part no. 57-802	5-36
3A3E24		CORE, ADJUSTABLE TUNING: same as 3A3E23	5-36
3A3E25		CORE, ADJUSTABLE TUNING: same as 3A3E23	5-36
3A3E26		CORE, ADJUSTABLE TUNING: same as 3A3E23	5-36
3A3E27		CORE, ADJUSTABLE TUNING: same as 3A3E23	5-36
3A3E28		TERMINAL, STUD: brass; 0.218 in. dia by 0.489 in. lg overall; mfr code 12615, part no. 1985	5-36
3A3E29		TERMINAL, STUD: same as 3A3E5	5-36
3A3E30		JACK, TIP: std phone tip contact element accommodated; plastic insulation; mfr code 98291, part no. SKT1	5-36
3A3FL1		FILTER, BAND PASS: 3.37 to 3.53 mc frequency range; mfr code 13499, part no. 543-1781-003	5-36
3A3H1		ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: brass bit and plastic holder; 2 working ends; mfr code 13499, part no. 543-1723-002	5-36
3A3J1		CONNECTOR, RECEPTACLE, ELECTRICAL: 12 flat female contacts, 10 amps, 2500 v rms; straight; mfr code 16688, part no. 600-120-1XA	5-36
3A3J2		JACK, TIP: std phone tip contact element accommodated; teflon insulation; mfr code 98291, part no. SKT10WHITE	5-36
3A3J3		JACK, TIP: std phone tip contact element accommodated; teflon insulation (p/o 3A3Z2); mfr code 98291, part no. SKT5BCWHITE	5-36
3A3J4		CONNECTOR, RECEPTACLE, ELECTRICAL: 10 female contacts, 5 amps, straight; mfr code 71225, part no. 3990-200	5-36
3A3J5		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3A3J4	5-36
3A3J6		NOT USED	
3A3J7		CONNECTOR, RECEPTACLE, ELECTRICAL: 9 female contacts, 5 amps, 1500 v dc; straight; mfr code 16688, part no. C9-20K	5-36
3A3J8		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3A3J4	5-36
3A3J9		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3A3J4	5-36

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3J10		NOT USED	
3A3J11		NOT USED	
3A3J12		JACK, TIP: same as 3A3J3 (p/o 3A3Z3)	5-36
3A3J13		JACK, TIP: same as 3A3J3 (p/o 3A3Z1)	5-36
3A3L1		COIL, RADIO FREQUENCY: universal wound pi sections; no. 40 AWG; 2.0 mh, 100 uuf, 35 ma; mfr code 99800, part no. BS123	5-36
3A3L2		COIL, RADIO FREQUENCY: single layer wound; 15 turns no. 26 AWG; 16 to 32 mc freq range; mfr code 13499, part no. 543-1691-002; (p/o 3A3Z3)	5-36
3A3L3		COIL, RADIO FREQUENCY: single layer wound; no. 36 AWG; 6.5 mh; mfr code 81815, part no. X064-1	5-36
3A3L4		COIL, RADIO FREQUENCY: single layer wound; 15 turns no. 28 AWG; 5 to 35.5 mc freq range; mfr code 13499, part no. 543-1692-002; (p/o 3A3Z4)	5-36
3A3L5		COIL, RADIO FREQUENCY: same as 3A3L4 (p/o 3A3Z5)	5-36
3A3L6		COIL, RADIO FREQUENCY: same as 3A3L1	5-36
3A3L7		COIL, RADIO FREQUENCY: single layer wound; magnet wire; 39 uh, 0.60 ohms, 1000 ma; mfr code 82142, part no. 10404-26	5-36
3A3L8		COIL, RADIO FREQUENCY: torodial wound; no. 38 AWG; 1000 mh, 3.6 ohms; mfr code 88063, part no. MP206-31B	5-36
3A3MP1		GEAR ASSEMBLY: 2 gears; 1 w/135 teeth, 2.8125 in. pitch dia; 1 w/22 teeth, 0.4538 in. pitch dia; ea 20° pressure angle (incl 3A3MP33); mfr code 13499, part no. 543-1650-002	5-36
3A3MP2		GEAR, SPUR: 30 teeth, 20° pressure angle, 0.6250 in. pitch dia; mfr code 13499, part no. 543-1651-002	5-36
3A3MP3		GEAR ASSEMBLY: 2 gears; 1 w/52 teeth, 1.0833 in. pitch dia; 1 w/22 teeth, 0.3437 in. pitch dia; ea 20° pressure angle; incl arm (incl 3A3MP32); mfr code 13499, part no. 543-1811-002	5-36
3A3MP4		NOT USED	
3A3MP5		GEAR ASSEMBLY: 2 gears; 1 w/88 teeth, 1.375 in. pitch dia; 1 w/18 teeth, 0.375 in. pitch dia; ea 20° pressure angle (incl 3A3MP35); mfr code 13499, part no. 543-1646-002	5-36
3A3MP6		GEAR, SPUR: 88 teeth, 20° pressure angle, 1.8333 in. pitch dia; mfr code 13499, part no. 543-1655-002	5-36
3A3MP7		NOT USED	
3A3MP8		BEARING, BALL, ANNULAR: single row; radial; 0.359 in. od, 0.1875 in. id, 0.125 in. thk; mfr code 40929, part no. S5632FCHHP37L01	5-36
3A3MP9		SPRING, HELICAL, EXTENSION: stainless steel; wire 0.033 in. dia hook ends; 4-1/2 coils; 0.472 in. overall; mfr code 13499, part no. 542-5381-002	5-36
3A3MP10		NOT USED	
3A3MP11		SPRING, HELICAL, EXTENSION: steel music wire; 1/64 in. od, 9/64 in. id, 5/16 in. lg; mfr code 91314, part no. 340-2090-00	5-36
3A3MP12		CAM, CONTROL: aluminum anodized; 0.375 in. id, 1.500 in. od, 0.381 in. thk overall; mfr code 13499, part no. 543-1806-002	5-36
3A3MP13		PULLEY, FLAT: c/o bearing, pin and lines; 3/4 in. od, 7/64 in. thk approx; mfr code 13499, part no. 543-1688-002	5-36
3A3MP14		BEARING, BALL, ANNULAR: single row; radial; 0.625 in. od, 0.250 in. id, 0.196 in. thk; mfr code 21335, part no. S1KDD7FS20179	5-36
3A3MP15		SHAFT, DRIVE, FLEXIBLE: 5-5/16 in. lg by 5/8 in. dia overall; incl roller and pin; mfr code 13499, part no. 543-1642-00	5-36
3A3MP16		BEARING, BALL, ANNULAR: single row; radial; 0.125 in. id, 0.296 in. od, 0.1094 in. thk; mfr code 40920, part no. S418FCHHP37L01	5-36

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3MP17		BEARING, BALL, ANNULAR: same as 3A3MP16	5-36
3A3MP18		BEARING, BALL, ANNULAR: same as 3A3MP16	5-36
3A3MP19		BEARING, BALL, ANNULAR: same as MP8	5-36
3A3MP20		NOT USED	
3A3MP21		NOT USED	
3A3MP22		GEAR, GUIDE: c/o plate, spring, pin guide and hardware; mfr code 13499, part no. 543-1737-002	5-36
3A3MP23		BEARING, BALL, ANNULAR: same as 3A3MP14	5-36
3A3MP24		PULLEY, FLAT: same as 3A3MP13	5-36
3A3MP25		SPRING, HELICAL, EXTENSION: same as 3A3MP9	5-36
3A3MP26		NOT USED	
3A3MP27		BEARING, BALL, ANNULAR: single row; radial; 0.1875 in. id, 0.500 in. od, 0.1960 in. thk; mfr code 21335, part no. A33KDD5FS160	5-36
3A3MP28		BEARING, BALL, ANNULAR: same as 3A3MP27	5-36
3A3MP29		HUB: anodized aluminum; grooved; 0.443 in. lg by 0.375 in. dia overall; mfr code 13499, part no. 543-1633-002	5-36
3A3MP30		HUB: same as 3A3MP29	5-36
3A3MP31		GEAR, SPUR: 22 teeth, 20° pressure angle, 0.4583 in. pitch dia; mfr code 13499, part no. 543-1647-002	5-36
3A3MP32		GEAR ASSEMBLY: 2 gears; 1 w/52 teeth, 0.0833 in. pitch dia; 1 w/22 teeth, 0.3437 in. pitch dia; ea 20° pressure angle (p/o 3A3MP3); mfr code 13499, part no. 543-1648-002	5-36
3A3MP33		GEAR, SPUR: 22 teeth, 20° pressure angle, 0.3437 in. pitch dia; mfr code 13499, part no. 543-1653-002; (p/o 3A3MP1)	5-36
3A3MP34		NOT USED	
3A3MP35		GEAR, SPUR: 18 teeth, 20° pressure angle, 0.375 in. pitch dia; mfr code 13499, part no. 543-1644-002 (p/o 3A3MP5)	5-36
3A3MP36		SPRING, HELICAL, COMPRESSION: stainless steel; rh wire 0.018 in. dia; 13 coils; 13/16 in. lg; mfr code 13499, part no. 543-1736-002	5-36
3A3P1		CONNECTOR, RECEPTACLE, ELECTRICAL: 37 rd male contacts, 1700 v dc, 5 amps; straight; mfr code 71468, part no. DC37PA101	5-36
3A3R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF102K	5-36
3A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF682K	5-36
3A3R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF101K	5-36
3A3R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF153K	5-36
3A3R5		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF473K	5-36
3A3R6		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF103K	5-36
3A3R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF473K	5-36
3A3R8		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF331K	5-36
3A3R9		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF822K	5-36
3A3R10		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-36
3A3R11		NOT USED	
3A3R12		NOT USED	
3A3R13		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF223K	5-36
3A3R14		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF393K	5-36
3A3R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF222K	5-36
3A3R16		RESISTOR, FIXED, COMPOSITION: same as 3A3R8	5-36
3A3R17		RESISTOR, FIXED, COMPOSITION: same as 3A3R8	5-36
3A3R18		RESISTOR, FIXED, COMPOSITION: same as 3A3R15	5-36
3A3R19		RESISTOR, FIXED, COMPOSITION: same as 3A3R7	5-36

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3R20		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF150K	5-36
3A3R21		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF682K	5-36
3A3R22		RESISTOR, FIXED, COMPOSITION: same as 3A3R4	5-36
3A3R23		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF333K	5-36
3A3R24		NOT USED	
3A3R25		NOT USED	
3A3R26		NOT USED	
3A3R27		NOT USED	
3A3R28		RESISTOR, FIXED, COMPOSITION: same as 3A3R10	5-36
3A3R29		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF183K	5-36
3A3R30		NOT USED	
3A3R31		RESISTOR, FIXED, COMPOSITION: same as 3A3R10	5-36
3A3R32		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF823K	5-36
3A3R33		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF223K	
3A3T1		COIL, RADIO FREQUENCY: universal wound; 66 turns Litz wire; 2 to 4 mc frequency range; mfr code 13499, part no. 543-1753-002 (p/o 3A3Z1)	5-36
3A3T2		TRANSFORMER, RADIO FREQUENCY: two windings; 2 turns no. 30 AWG, 44 turns no. 32 AWG; 4 to 8 mc frequency range; mfr code 13499, part no. 543-1690-002; (p/o 3A3Z2)	5-36
3A3TB1		TERMINAL BOARD: plastic board; end 4 terminals (incl 3A3E1, E2, E3, and E4, built in); mfr code 13499, part no. 543-1683-002	5-36
3A3TB2		TERMINAL BOARD: plastic board; incl 3 terminals and 3 eyelets; mfr code 13499, part no. 543-1724-002	5-36
3A3V1		ELECTRON TUBE: glass envelope; pentode type; mfr code 89185, part no. 5654	5-36
3A3V2		ELECTRON TUBE: glass envelope; pentagrid converter type; mfr code 89185, part no. 5750	5-36
3A3V3		ELECTRON TUBE: same as 3A3V1	5-36
3A3V4		ELECTRON TUBE: double triode; mfr code 89185, part no. 5670	5-36
3A3XV1		SOCKET, ELECTRON TUBE: 7 pin miniature; mfr code 94991, part no. 8000-0316	5-36
3A3XV2		SOCKET, ELECTRON TUBE: same as 3A3XV1	5-36
3A3XV3		SOCKET, ELECTRON TUBE: same as 3A3XV1	5-36
3A3XV4		SOCKET, ELECTRON TUBE: 9 pin miniature; mfr code 94991; part no. 8000-0315	5-36
3A3Z1		TUNING UNIT, RADIO FREQUENCY: 2 to 4 mc frequency range (incl 3A3T1, C3, C4, J13); mfr code 13499, part no. 543-1771-003	5-36
3A3Z2		TUNING UNIT, RADIO FREQUENCY: 4 to 8 mc freq range (incl 3A3T2, C7, C8, J3); mfr code 13499, part no. 544-7235-005	5-36
3A3Z3		TUNING UNIT, RADIO FREQUENCY: 16 to 32 mc freq range (incl 3A3L2, C11, C12, C14, J12); mfr code 13499, part no. 544-7236-005	5-36
3A3Z4		TUNING UNIT, RADIO FREQUENCY: 19.5 to 35.5 mc freq range (incl 3A3L4, C29, C30); mfr code 13499, part no. 543-1775-003	5-36
3A3Z5		TUNING UNIT, RADIO FREQUENCY: 19.5 to 35.5 mc frequency range (incl 3A3L5, C35, C36); mfr code 13499, part no. 543-1776-003	5-36
3A3		CONVERTER-OSCILLATOR CV-731/URC, SMO, MAIN CHASSIS: MODELS B & C; consists of oscillator, signal IF, IF mixer, master interpolation oscillator, 4 KC spectrum generator, and reference IF; mfr code 13499, part no. 528-0021-005	
3A3C1		NOT USED	

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3C2		CAPACITOR, FIXED, PAPER DIELECTRIC: 15,000 uuf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 186P15301S3	5-37
3A3C3		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 8.0 to 75.0 uuf, 350 v dc (p/o 3A3Z1); mfr code 72982, part no. 3172000U2P034R	
3A3C4		CAPACITOR, FIXED, MICA DIELECTRIC: 82 uuf $\pm 2\%$ , 500 v dc (p/o 3A3Z1); mfr code 14655, part no. 22H5Q82EG	
3A3C5		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 10,000 uuf $+100\%$ $-20\%$ ; 500 v dc; mfr code 71590, part no. DA049-123B	
3A3C6		CAPACITOR, FIXED, MICA DIELECTRIC: 22 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q22CJ	
3A3C7		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 5.0 to 37.5 uuf, 350 v dc (p/o 3A3Z2); mfr code 72983, part no. 3172000COP039R	
3A3C8		CAPACITOR, FIXED, MICA DIELECTRIC: 68 uuf $\pm 2\%$ , 500 v dc (p/o 3A3Z2); mfr code 14655, part no. 22H5Q68EG	
3A3C9		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C5	
3A3C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C5	
3A3C11		CAPACITOR, FIXED, MICA DIELECTRIC: 15 uuf $\pm 5\%$ , 500 v dc (p/o 3A3Z3); mfr code 14655, part no. 22H5Q15CJ	
3A3C12		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 3 to 18 uuf; 350 v dc (p/o 3A3Z3); mfr code 72982, part no. 3172000COP017R	
3A3C13		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C5	
3A3C14		CAPACITOR, FIXED, MICA DIELECTRIC: 10 uuf $\pm 5\%$ , 500 v dc (p/o 3A3Z3); mfr code 14655, part no. 22H5Q1CJ	5-37
3A3C15		CAPACITOR, FIXED, MICA DIELECTRIC: 39 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q39DJ	5-37
3A3C16		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C5	
3A3C17		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C5	
3A3C18		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C5	
3A3C19		CAPACITOR, FIXED, PAPER DIELECTRIC: 220,000 uuf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 103P22301	
3A3C20		CAPACITOR, FIXED, MICA DIELECTRIC: 510 uuf $\pm 2\%$ , 300 v dc; mfr code 14655, part no. 22H5T51EG	
3A3C21		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 186P10402S15	
3A3C22		CAPACITOR, FIXED, MICA DIELECTRIC: 2,000 uuf $\pm 10\%$ , 500 v dc; mfr code 53021, part no. M42000	
3A3C23		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3C21	
3A3C24		CAPACITOR, FIXED, MICA DIELECTRIC: 470 uuf $\pm 2\%$ , 300 v dc; mfr code 14655, part no. 22H5T47EG	
3A3C25		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3C24	
3A3C26		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 186P10401T15	
3A3C27		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3C6	
3A3C28		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3C21	
3A3C29		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 10 uuf $\pm 1$ uuf, 500 v dc (p/o 3A3Z4); mfr code 71590, part no. DA934-008	
3A3C30		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 3 to 18 uuf, 350 v dc (p/o 3A3Z4); mfr code 72982, part no. 3188001	
3A3C31		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 186P10402T15	

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3C32		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 2.0 uuf $\pm$ 1/4 uuf; 500 v dc; mfr code 72982, part no. 331026C0K0209C	
3A3C33		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3C6	
3A3C34		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C32	
3A3C35		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3C29 (p/o 3A3Z5)	
3A3C36		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A3C30 (p/o 3A3C30) (p/o 3A3Z5)	
3A3C37		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm$ 20%, 300 v dc; mfr code 56289, part no. 103P10403	
3A3C38		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3C22	
3A3C39		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3C2	
3A3C40		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 4.7 uuf $\pm$ 20%, 100 v dc; mfr code 56289, part no. 150D475X0035B2	
3A3C41		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm$ 20%, 100 v dc; mfr code 56289, part no. 103P10401	
3A3C42		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3C41	
3A3CR1		SEMICONDUCTOR DEVICE, DIODE: MIL type 1N251	
3A3CR2		SEMICONDUCTOR DEVICE, DIODE: same as 3A3CR1	
3A3CR3		SEMICONDUCTOR DEVICE, DIODE: same as 3A3CR1	
3A3CR4		SEMICONDUCTOR DEVICE, DIODE: same as 3A3CR1	
3A3CR5		SEMICONDUCTOR DEVICE, DIODE: same as 3A3CR1	
3A3CR6		SEMICONDUCTOR DEVICE, DIODE: same as 3A3CR1	5-37
3A3CR7		SEMICONDUCTOR DEVICE, DIODE: mfr code 07688, JETEC part no. 1N198	5-37
3A3E1		NUT, PLAIN, CLINCH: p/o TB1, built in	
3A3E2		NUT, PLAIN, CLINCH: same as E1; p/o TB1, built in	
3A3E3		NUT, PLAIN, CLINCH: same as E1; p/o TB1, built in	
3A3E4		NUT, PLAIN, CLINCH: same as E1; p/o TB1, built in	
3A3E5		TERMINAL STUD: tube pin type brass conductor; teflon insulation; 0.172 in. dia, 0.350 in. lg overall; mfr code 12615, part no. 2619	
3A3E6		TERMINAL, STUD: same as 3A3E5	
3A3E7		NOT USED	
3A3E8		NOT USED	
3A3E9		NOT USED	
3A3E10		NOT USED	
3A3E11		NOT USED	
3A3E12		NOT USED	
3A3E13		NOT USED	
3A3E14		NOT USED	
3A3E15		SHIELD, ELECTRON TUBE: 7 pin miniature; brass; end copper insert; mfr code 13499, part no. 541-6550-003	
3A3E16		SHIELD, ELECTRON TUBE: 9 pin noval; brass; incl copper insert; mfr code 13499, part no. 541-6553-003	
3A3E17		SHIELD, ELECTRON TUBE: 7 pin miniature; brass; incl copper insert; mfr code 13499, part no. 541-6551-003	
3A3E18		SHIELD, ELECTRON TUBE: same as 3A3E15	
3A3E19		INSERT, ELECTRON TUBE SHIELD: cadmium plated copper; w/7 tabs bent 40°; mfr code 13499, part no. 541-6532-003	
3A3E20		INSERT, ELECTRON TUBE SHIELD: same as 3A3E19	
3A3E21		INSERT, ELECTRON TUBE SHIELD: same as 3A3E19	

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3E22		INSERT, ELECTRON TUBE SHIELD: cadmium plated copper; w/8 tabs bent 40°; mfr code 13499, part no. 541-6533-003	
3A3E23		CORE, ADJUSTABLE TUNING: powdered iron; permeability 61 at 1 mc; 0.5 to 32 mc freq range; mfr code 78488, part no. 57-802	
3A3E24		CORE, ADJUSTABLE TUNING: same as 3A3E23	
3A3E25		CORE, ADJUSTABLE TUNING: same as 3A3E23	
3A3E26		CORE, ADJUSTABLE TUNING: same as 3A3E23	
3A3E27		CORE, ADJUSTABLE TUNING: same as 3A3E23	
3A3E28		TERMINAL, STUD: brass, 0.218 in. dia by 0.489 in. lg overall; mfr code 12615, part no. 1985	
3A3E29		TERMINAL, STUD: same as 3A3E5	
3A3E30		JACK, TIP: std phone tip contact element accommodated; plastic insulation; mfr code 98291, part no. SKT1	
3A3FL1		FILTER, BAND PASS: 3.37 to 3.53 mc freq range; mfr code 13499, part no. 543-1781-003	5-37
3A3H1		ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: brass bit and plastic holder; 2 working ends; mfr code 13499, part no. 543-1723-002	
3A3J1		CONNECTOR, RECEPTACLE, ELECTRICAL: 12 flat female contacts, 10 amps, 2500 v rms; straight; mfr code 16688, part no. 600-120-1XA	
3A3J2		JACK, TIP: std phone tip contact element accommodated; teflon insulation; mfr code 98291, part no. SKT10WHITE	
3A3J3		JACK, TIP: std phone tip contact element accommodated; teflon insulation (p/o 3A3Z2); mfr code 98291, part no. SKT5BCWHITE	
3A3J4		CONNECTOR, RECEPTACLE, ELECTRICAL: 10 female contacts, 5 amp; straight; mfr code 71225, part no. 3990-200	
3A3J5		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3A3J4	
3A3J6		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3A3J4	
3A3J7		CONNECTOR, RECEPTACLE, ELECTRICAL: 9 female contacts, 5 amps, 1500 v dc; straight; mfr code 16688, part no. C9-20PK	
3A3J8		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3A3J4	
3A3J9		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 3A3J4	
3A3J10		NOT USED	
3A3J11		NOT USED	
3A3J12		JACK, TIP: same as 3A3J3 (p/o 3A3Z3)	5-37
3A3J13		JACK, TIP: same as 3A3J3 (p/o 3A3Z1)	5-37
3A3L1		COIL, RADIO FREQUENCY: universal wound pi sections; no. 40 AWG; 2.0 mh, 100 uuf, 35 ma; mfr code 99800, part no. BS123	5-37
3A3L2		COIL, RADIO FREQUENCY: single layer wound; 15 turns no. 26 AWG, 16 to 32 mc freq range (p/o 3A3Z3); mfr code 13499, part no. 543-1691-002	5-37
3A3L3		COIL, RADIO FREQUENCY: single layer wound; no. 36 AWG; 6.5 mh; mfr code 81815, part no. X064-1	5-37
3A3L4		COIL, RADIO FREQUENCY: single layer wound; 15 turns no. 28 AWG; 19.5 to 35.5 mc freq range (p/o 3A3Z4); mfr code 13499, part no. 543-1692-002	
3A3L5		COIL, RADIO FREQUENCY: same as 3A3L4 (p/o 3A3Z5)	
3A3L6		COIL, RADIO FREQUENCY: same as 3A3L1	
3A3L7		COIL, RADIO FREQUENCY: single layer wound; magnet wire; 39 uh, 0.60 ohms, 1000 ma; mfr code 82142, part no. 10404-26	
3A3L8		NOT USED	
3A3MP1		GEAR ASSEMBLY: 2 gears; 1 w/135 teeth, 2.8125 in. pitch dia; 1 w/22 teeth, 0.4583 in. pitch dia; each 20° pressure angle (incl 3A3MP33); mfr code 13499, part no. 543-1650-002	



TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3MP2		GEAR, SPUR: 30 teeth, 20° pressure angle, 0.6250 in. pitch dia; mfr code 13499, part no. 543-1651-002	
3A3MP3		GEAR ASSEMBLY: 2 gears; 1 w/52 teeth, 1.0833 in. pitch dia; 1 w/22 teeth, 0.3437 in. pitch dia; ea 20° pressure angle; incl arm (incl 3A3MP32); mfr code 13499, part no. 543-1811-002	
3A3MP4		NOT USED	
3A3MP5		GEAR ASSEMBLY: 2 gears; 1 w/88 teeth, 1.375 in. pitch dia; 1 w/18 teeth, 0.375 in. pitch dia; ea 20° pressure angle (incl 3A3MP35); mfr code 13499, part no. 543-1646-002	
3A3MP6		GEAR, SPUR: 88 teeth, 20° pressure angle, 1.8333 in. pitch dia; mfr code 13499, part no. 543-1655-002	
3A3MP7		NOT USED	
3A3MP8		BEARING, BALL, ANNULAR: single row; radial; 0.359 in. od, 0.1875 in. id, 0.125 in. thk; mfr code 40920, part no. S5632FCHHP37L01	
3A3MP9		SPRING, HELICAL, EXTENSION: stainless steel; wire 0.033 in. dia hook ends; 4-1/2 coils; 0.472 in. overall; mfr code 13499, part no. 542-5381-002	
3A3MP10		NOT USED	
3A3MP11		SPRING, HELICAL, EXTENSION: steel music wire; 0.141 in. id, 0.156 in. od, 0.3125 in. lg; mfr code 91314, part no. 340-2090-00	
3A3MP12		CAM, CONTROL: aluminum anodized; 0.375 in. id, 1.500 in. od, 0.381 in. thk overall; mfr code 13499, part no. 543-1806-002	
3A3MP13		PULLEY, FLAT: c/o bearing, pin and liner; 3/4 in. od, 7/64 in. thk approx; mfr code 13499, part no. 543-1688-002	
3A3MP14		BEARING, BALL, ANNULAR: single row; radial; 0.625 in. od, 0.250 in. id, 0.196 in. thk; mfr code 21335, part no. S1KDD7FS20179	
3A3MP15		SHAFT, DRIVE, FLEXIBLE: 5-5/16 in. lg by 5/8 in. dia overall; mfr code 13499, part no. 543-1642-00	
3A3MP16		BEARING, BALL, ANNULAR: single row; radial; 0.125 in. id, 0.296 in. od, 0.1094 in. thk; mfr code 40920, part no. S418FCHHP37L01	
3A3MP17		BEARING, BALL, ANNULAR: same as 3A3MP16	
3A3MP18		BEARING, BALL, ANNULAR: same as 3A3MP16	
3A3MP19		BEARING, BALL, ANNULAR: same as 3A3MP16	
3A3MP20		NOT USED	
3A3MP21		NOT USED	
3A3MP22		GEAR, GUIDE: c/o plate, spring, pin guide and hardware; mfr code 13499, part no. 543-1737-002	
3A3MP23		BEARING, BALL, ANNULAR: same as 3A3MP14	
3A3MP24		PULLEY, FLAT: same as 3A3MP13	
3A3MP25		SPRING, HELICAL, EXTENSION: same as 3A3MP9	
3A3MP26		NOT USED	
3A3MP27		BEARING, BALL, ANNULAR: single row; radial; 0.1875 in. id, 0.500 in. od, 0.1969 in. thk; mfr code 21335, part no. A33KDD5FS160	
3A3MP28		BEARING, BALL, ANNULAR: same as 3A3MP27	
3A3MP29		HUB: anodized aluminum; grooved; 0.443 in. lg by 0.375 in. dia overall; mfr code 13499, part no. 543-1633-002	
3A3MP30		HUB: same as 3A3MP29	
3A3MP31		GEAR, SPUR: 22 teeth, 20° pressure angle, 0.4583 in. pitch dia; mfr code 13499, part no. 543-1647-002	
3A3MP32		GEAR ASSEMBLY: 2 gears; 1 w/52 teeth, 1.0833 in. pitch dia; 1 w/22 teeth, 0.3437 in. pitch dia; ea 20° pressure angle (p/o 3A3MP3); mfr code 13499, part no. 543-1648-002	

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3MP33		GEAR, SPUR: 22 teeth, 20° pressure angle, 0.3437 in. pitch dia (p/o 3A3MP1); mfr code 13499, part no. 543-1653-002	
3A3MP34		NOT USED	
3A3MP35		GEAR, SPUR: 18 teeth, 20° pressure angle, 0.375 in. pitch dia (p/o 3A3MP5); mfr code 13499, part no. 543-1644-002	
3A3MP36		SPRING, HELICAL, COMPRESSION: stainless steel; rh wire 0.018 in. dia; 13 coils; 13/16 in. lg; mfr code 13499, part no. 543-1736-002	
3A3P1		CONNECTOR, RECEPTACLE, ELECTRICAL: 37 rd male contacts, 1700 v dc, 5 amps; straight; mfr code 71468, part no. DC37PA101	
3A3R1		NOT USED	
3A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF682K	
3A3R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF101K	
3A3R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF153K	
3A3R5		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF473K	
3A3R6		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	
3A3R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF473K	
3A3R8		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF331K	
3A3R9		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF822K	
3A3R10		RESISTOR, FIXED, COMPOSITION: same as 3A3R6	5-37
3A3R11		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF102K	
3A3R12		NOT USED	
3A3R13		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF223K	
3A3R14		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF393K	
3A3R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF222K	
3A3R16		RESISTOR, FIXED, COMPOSITION: same as 3A3R8	
3A3R17		RESISTOR, FIXED, COMPOSITION: same as 3A3R8	
3A3R18		RESISTOR, FIXED, COMPOSITION: same as 3A3R15	
3A3R19		RESISTOR, FIXED, COMPOSITION: same as 3A3R7	
3A3R20		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF150K	
3A3R21		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF682K	
3A3R22		RESISTOR, FIXED, COMPOSITION: same as 3A3R4	
3A3R23		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF333K	
3A3R24		NOT USED	
3A3R25		NOT USED	
3A3R26		NOT USED	
3A3R27		NOT USED	
3A3R28		RESISTOR, FIXED, COMPOSITION: same as 3A3R6	
3A3R29		RESISTOR, FIXED, COMPOSITION: same as 3A3R4	
3A3R30		NOT USED	
3A3R31		RESISTOR, FIXED, COMPOSITION: same as 3A3R6	
3A3R32		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF823K	
3A3T1		COIL, RADIO FREQUENCY: universal wound; 66 turns Litz wire; 2 to 4 mc freq range (p/o 3A3Z1); mfr code 13499, part no. 543-1753-002	5-37
3A3T2		TRANSFORMER, RADIO FREQUENCY: two windings; two turns no. 30 AWG, 44 turns no. 32 AWG, 4 to 8 mc frequency range (p/o 3A3Z2); mfr code 13499, part no. 543-1690-002	5-37
3A3TB1		TERMINAL BOARD: plastic board; incl 4 terminals (incl 3A3E1, E2, E3, E4, built in); mfr code 13499, part no. 543-1683-002	
3A3TB2		TERMINAL BOARD: plastic board; incl 3 terminals and 3 eyelets; mfr code 13499, part no. 543-1724-002	

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3V1		ELECTRON TUBE: glass envelope; pentode; mfr code 89185, type 5654	5-37
3A3V2		ELECTRON TUBE: glass envelope; pentagrid converter; mfr code 89185, type 5750	5-37
3A3V3		ELECTRON TUBE: same as 3A3V1	5-37
3A3V4		ELECTRON TUBE: double triode; mfr code 89195, type 5670	5-37
3A3XV1		SOCKET, ELECTRON TUBE: 7 pin miniature; mfr code 94991, part no. 8000-0316	
3A3XV2		SOCKET, ELECTRON TUBE: same as 3A3XV1	
3A3XV3		SOCKET, ELECTRON TUBE: same as 3A3XV1	
3A3XV4		SOCKET, ELECTRON TUBE: 9 pin miniature; mfr code 94991, part no. 8000-0315	
3A3Z1		TUNING UNIT, RADIO FREQUENCY: 2 to 4 mc frequency range (incl 3A3T1, C3, C4, J13); mfr code 13499, part no. 543-1771-003	
3A3Z2		TUNING UNIT, RADIO FREQUENCY: 4 to 8 mc frequency range; (incl 3A3T2, C7, C8, J3); mfr code 13499, part no. 544-7235-005	
3A3Z3		TUNING UNIT, RADIO FREQUENCY: 16 to 32 mc frequency range (incl 3A3L2, C11, C12, C14, J12); mfr code 13499, part no. 544-7236-005	
3A3Z4		TUNING UNIT, RADIO FREQUENCY: 19.5 to 35.5 mc frequency range (incl 3A3L4, C29, C30); mfr code 13499, part no. 543-1775-003	
3A3Z5		TUNING UNIT, RADIO FREQUENCY: 19.5 to 35.5 mc frequency; 19.5 to 35.5 mc frequency range (incl 3A3L5, C35, C36); mfr code 13499, part no. 543-1776-003	
**3A3A1		CONVERTER-OSCILLATOR CV-731/URC, SMO, MASTER OSCILLATOR, 70H-13: 2.0 to 4.0 mc frequency; 6.3 v ac, 115 v ac, 400 cps, +27.5 v dc, -130 v dc operating voltage; 1-13/32 in. overall; mfr code 13499, part no. 522-0617-004	
**3A3A1		CONVERTER-OSCILLATOR CV-731/URC, SMO, MASTER OSCILLATOR, 70H-13A (models B and C): 2.0 to 4.0 mc freq range; 6.3 v ac, 115 v ac, 60 cps, +27.5 v dc, -130 v dc operating voltage; 1-13/32 in. by 3-3/16 in. by 5-1/4 in. overall; mfr code 13499, part no. 522-1768-004	
3A3A2		CONVERTER-OSCILLATOR CV-731/URC, SMO MODEL A, SIGNAL I-F AMPLIFIER: 28 v dc input voltage; 455 kc operating frequency; contains phase and frequency discriminator; mfr code 13499, part no. 544-2633-005	
3A3A2C1		CAPACITOR, FIXED, PAPER DIELECTRIC: 10,000 uuf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 186P10301S3	5-40
3A3A2C2		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A2C1	5-40
3A3A2C3		CAPACITOR, FIXED, ELECTROLYTIC: 60 uf $\pm 20\%$ , 6 v dc; mfr code 56289, part no. 150D606X0006B2	5-40
3A3A2C4		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A3A2C3	5-40
3A3A2C5		CAPACITOR, FIXED, MICA DIELECTRIC: 2000 uuf $\pm 1\%$ , 500 v dc; mfr code 14655, part no. 5A5D2	5-40
3A3A2C6		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A2C5	5-40
3A3A2C7		CAPACITOR, FIXED, PAPER DIELECTRIC: 15,000 uuf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 196P15301S4	5-40
3A3A2C8		CAPACITOR, FIXED, ELECTROLYTIC: 10 uf $\pm 20\%$ , 20 v dc; mfr code 56289, part no. 150D106X0020B2	5-40
**This is a sealed unit and it is recommended that it be sent back to Collins Radio Company for repair.			

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3A2C9		CAPACITOR, FIXED, MICA DIELECTRIC: 200 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T2EG	5-40
3A3A2C10		CAPACITOR, FIXED, ELECTROLYTIC: 0.068 uf $\pm 20\%$ , 35 v dc; mfr code 56289, part no. 150D683X0035A2	5-40
3A3A2C11		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A3A2C3	5-40
3A3A2C12		CAPACITOR, FIXED, PAPER DIELECTRIC: 33,000 uuf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 118P33302S3	5-40
3A3A2C13		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A2C9	5-40
3A3A2C14		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A2C12	5-40
3A3A2C15		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A2C12	5-40
3A3A2C16		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A2C9	5-40
3A3A2C17		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A2C12	5-40
3A3A2C18		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 118P10402S3	5-40
3A3A2C19		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A2C12	5-40
3A3A2C20		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A2C9	5-40
3A3A2C21		NOT USED	
3A3A2C22		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A2C12	5-40
3A3A2C23		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A3A2C3	5-40
3A3A2C24		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A3A2C3	5-40
3A3A2C25		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A3A2C3	5-40
3A3A2C26		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 100 uuf $\pm 5\%$ , 500 v dc; mfr code 01939, part no. 20C63A1	5-40
3A3A2C27		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3A2C26	5-40
3A3A2CR1		SEMICONDUCTOR DEVICE, DIODE: germanium; mfr code 73293, part no. HD2160	5-40
3A3A2CR2		SEMICONDUCTOR DEVICE, DIODE: same as 3A3A2CR1	5-40
3A3A2CR3		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 73293, part no. 1N457	5-40
3A3A2CR4		SEMICONDUCTOR DEVICE, DIODE: same as 3A3A2CR3	5-40
3A3A2HR1		OVEN, TUNED CIRCUIT: $+75 \pm 3^\circ\text{C}$ nom oven temp; 28 v dc; mfr code 13499, part no. 543-1731-002	5-40
3A3A2J1		JACK, TIP: std phone tip accommodated; teflon insulation; mfr code 98291, part no. SKT5BCWHITE	5-40
3A3A2J2		JACK, TIP: same as 3A3A2J1	5-40
3A3A2L1		COIL, RADIO FREQUENCY: single layer wound; #36 AWG; 455 kc; mfr code 81815, part no. X063-1	5-40
3A3A2L2		COIL, RADIO FREQUENCY: same as 3A3A2L1	5-40
3A3A2L3		TRANSFORMER, INTERMEDIATE FREQUENCY: 455 kc; no. 36 AWG; tapped; mfr code 81815, part no. X066-1	5-40
3A3A2L4		COIL, RADIO FREQUENCY: single layer wound; #36 AWG; 455 kc; mfr code 81815, part no. X062-1	5-40
3A3A2P1		CONNECTOR, PLUG, ELECTRICAL: printed circuit plug feedthru, p/o Signal I.F., built in	5-40
3A3A2Q1		TRANSISTOR: silicon; mfr code 96214, part no. J319	5-40
3A3A2Q2		TRANSISTOR: same as 3A3A2Q1	5-40
3A3A2Q3		TRANSISTOR: silicon; mfr code 96214, part no. 2N264	5-40
3A3A2Q4		TRANSISTOR: same as 3A3A2Q3	5-40
3A3A2Q5		TRANSISTOR: same as 3A3A2Q3	5-40
3A3A2Q6		TRANSISTOR: same as 3A3A2Q3	5-40
3A3A2R1		RESISTOR, FIXED, WIREWOUND: 4 ohms $\pm 5\%$ , 1/4 w; mfr code 15909, part no. R471-29	5-40

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3A2R2		RESISTOR, FIXED, WIREWOUND: same as 3A3A2R1	5-40
3A3A2R3		RESISTOR, VARIABLE, COMPOSITION: 2500 ohms $\pm 20\%$ , 1/4 w; mfr code 01121, part no. F1144	5-40
3A3A2R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF471K	5-40
3A3A2R5		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF562K	5-40
3A3A2R6		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF184K	5-40
3A3A2R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-40
3A3A2R8		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R5	5-40
3A3A2R9		RESISTOR, FIXED, FILM: MIL type RN65B4221F	5-40
3A3A2R10		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF152K	5-40
3A3A2R11		RESISTOR, FIXED, FILM: MIL type RN65B7500F	5-40
3A3A2R12		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R5	5-40
3A3A2R13		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF183K	5-40
3A3A2R14		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF221K	5-40
3A3A2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF682K	5-40
3A3A2R16		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R13	5-40
3A3A2R17		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R14	5-40
3A3A2R18		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R5	5-40
3A3A2R19		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF680K	5-40
3A3A2R20		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF102K	5-40
3A3A2R21		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R7	5-40
3A3A2R22		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF561K	5-40
3A3A2R23		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R22	5-40
*3A3A2R24		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF220K	
*3A3A2R24		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF390K	
*3A3A2R24		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF470K	
*3A3A2R24		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF560K	
3A3A2S1		NOT USED	
3A3A2T1		TRANSFORMER, INTERMEDIATE FREQUENCY: 455 kc freq; mfr code 81815, part no. X065-1	5-40
3A3A2T2		TRANSFORMER, INTERMEDIATE FREQUENCY: same as 3A3A2T1	5-40
3A3A2T3		TRANSFORMER, INTERMEDIATE FREQUENCY: same as 3A3A2T1	5-40
3A3A2TB1		TERMINAL BOARD: plastic board; 4-1/16 in. by 4-3/4 in. by 1/16 in.; mfr code 13499, part no. 542-4458-004	5-40
3A3A2		FREQUENCY GENERATOR 786E-1, SMO, SIGNAL I-F AMPLIFIER: MODEL B; 26.5 v dc input voltage; 455 kc operating frequency; contains phase and frequency discriminator; mfr code 13499, part no. 545-5866-005	
3A3A2C1		CAPACITOR, FIXED, PAPER DIELECTRIC: 10,000 uuf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 186P10301S3	5-41
3A3A2C2		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A2C1	5-41
3A3A2C3		NOT USED	
3A3A2C4		NOT USED	
3A3A2C5		CAPACITOR, FIXED, MICA DIELECTRIC: 2,000 uuf $\pm 10\%$ , 500 v dc; mfr code 72136, part no. DM20F202F500WV	5-41
3A3A2C6		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A2C5	5-41
3A3A2C7		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 0.02 uf $+60\%$ $-40\%$ , 250 v dc; mfr code 01939, part no. 20C109	5-41
3A3A2C8		CAPACITOR, FIXED, ELECTROLYTIC: 10 uf $\pm 20\%$ , 20 v dc; mfr code 56289, part no. 150D106X0020B2	5-41
*Chosen per operational requirements			

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3A2C9		CAPACITOR, FIXED, MICA DIELECTRIC: 160 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5T16EJ	5-41
3A3A2C10		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A3A2C8	5-41
3A3A2C11		NOT USED	
3A3A2C12		CAPACITOR, FIXED, ELECTROLYTIC: 180 uf $\pm 20\%$ , 6 v dc; mfr code 56289, part no. 150D187X0006R2	5-41
3A3A2C13		CAPACITOR, FIXED, MICA DIELECTRIC: 200 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T2EG	5-41
3A3A2C14		CAPACITOR, FIXED, PAPER DIELECTRIC: 33,000 uuf $+20\%$ , 200 v dc; mfr code 56289, part no. 118P33302S3	5-41
3A3A2C15		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A2C14	5-41
3A3A2C16		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A2C13	5-41
3A3A2C17		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A2C14	5-41
3A3A2C18		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 118P10402S3	5-41
3A3A2C19		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A2C14	5-41
3A3A2C20		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A2C13	5-41
3A3A2C21		NOT USED	
3A3A2C22		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A2C14	5-41
3A3A2C23		NOT USED	
3A3A2C24		NOT USED	
3A3A2C25		NOT USED	
*3A3A2C26		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 100 uuf $\pm 5\%$ , 500 v dc, 470 negative temp. coefficient; mfr code 01939, part no. 29C296	
*3A3A2C26		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 100 uuf $\pm 5\%$ , 500 v dc, 750 negative temp. coefficient; mfr code 01939, part no. 55C43	
*3A3A2C26		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 100 uuf $\pm 5\%$ , 500 v dc, 1500 negative temp. coefficient; mfr code 72982, part no. 851-500P3K0101J	
*3A3A2C26		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 100 uuf $\pm 5\%$ , 500 v dc, 2200 negative temp. coefficient; mfr code 01939, part no. 19C11A2	
*3A3A2C26		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 100 uuf $\pm 20\%$ , 500 v dc; mfr code 01939, part no. 40C78	
*3A3A2C27		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 100 uuf $\pm 5\%$ , 500 v dc, 470 negative temp. coefficient; mfr code 01939, part no. 29C296	5-41
*3A3A2C27		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 100 uuf $\pm 5\%$ , 500 v dc, 750 negative temp. coefficient; mfr code 01939, part no. 55C43	5-41
*3A3A2C27		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 100 uuf $\pm 5\%$ , 500 v dc, 1500 negative temp. coefficient; mfr code 72982, part no. 851-500P3K0101J	5-41
*3A3A2C27		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 100 uuf $\pm 5\%$ , 500 v dc, 2200 negative temp. coefficient; mfr code 01939, part no. 19C11A2	5-41
*3A3A2C27		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 100 uuf $\pm 20\%$ , 500 v dc; mfr code 01939, part no. 40C78	5-41
3A3A2C28		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.68 uf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 118P68402S4	5-41
3A3A2C29		CAPACITOR, FIXED, CERAMIC DIELECTRIC: MIL type CK60AW102M	5-41
3A3A2C30		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3A2C29	5-41
3A3A2C31		CAPACITOR, FIXED, MICA DIELECTRIC: 510 uuf $\pm 5\%$ , 300 v dc; mfr code 14655, part no. 22H5T51EJ	5-41
*Chosen per operational requirements			

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3A2C32		CAPACITOR, FIXED, MICA DIELECTRIC: 33 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q33DJ	5-41
3A3A2C33		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A2C32	5-41
3A3A2C34		CAPACITOR, FIXED, MICA DIELECTRIC: 240 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5T24EJ	5-41
*3A3A2C35		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc, 150 negative temp. coefficient; mfr code 01939, part no. 29C297	
*3A3A2C35		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc; 220 negative temp. coefficient; mfr code 01939, part no. 55C44	
*3A3A2C35		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc, 330 negative temp. coefficient; mfr code 01939, part no. 20C185	
*3A3A2C35		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc, 470 negative temp. coefficient, mfr code 01939, part no. 20C183	
*3A3A2C35		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc, 750 negative temp. coefficient; mfr code 13499, part no. 19C28A1	
*3A3A2C35		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc; 1500 negative temp. coefficient; mfr code 01939, part no. 40C157A1	
*3A3A2C35		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc, 2200 negative temp. coefficient; mfr code 01939, part no. 53C46	
*3A3A2C35		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc; 3300 negative temp. coefficient; mfr code 01939, part no. 53C45	
*3A3A2C36		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc, 150 negative temp. coefficient; mfr code 01939, part no. 29C297	
*3A3A2C36		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc; 220 negative temp. coefficient; mfr code 01939, part no. 55C44	
*3A3A2C36		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc, 330 negative temp. coefficient; mfr code 01939, part no. 20C185	
*3A3A2C36		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc, 470 negative temp. coefficient; mfr code 01939, part no. 20C183	
*3A3A2C36		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc, 750 negative temp. coefficient; mfr code 13499, part no. 19C28A1	
*3A3A2C36		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc; 1500 negative temp. coefficient; mfr code 01939, part no. 40C157A1	
*3A3A2C36		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc, 2200 negative temp. coefficient; mfr code 01939, part no. 53C46	
*3A3A2C36		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf $\pm 5\%$ , 500 v dc, 3300 negative temp. coefficient; mfr code 01939, part no. 53C45	
3A3A2C37		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A2C5	5-41
3A3A2C38		CAPACITOR, FIXED, ELECTROLYTIC: (tantalum) 4.7 uf $\pm 20\%$ , 35 v dc; mfr code 56289, part no. 150D475X0035B2	
3A3A2CR1		SEMICONDUCTOR DEVICE, DIODE: germanium; mfr code 93983, part no 1N270	5-41
3A3A2CR2		SEMICONDUCTOR DEVICE, DIODE: same as 3A3A2CR1	5-41
3A3A2CR3		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 73293, part no. 1N457	5-41
3A3A2CR4		SEMICONDUCTOR DEVICE, DIODE: same as 3A3A2CR3	5-41
3A3A2CR5		SEMICONDUCTOR DEVICE, DIODE: same as 3A3A2CR1	5-41
3A3A2CR6		SEMICONDUCTOR DEVICE, DIODE: same as 3A3A2CR1	5-41
3A3A2J1		JACK, TIP: std phone tip accommodated; teflon insulation; mfr code 98291, part no. SKT5BCWHITE	5-41
3A3A2J2		JACK, TIP: same as 3A3A2J1	5-41

\*Chosen per operational requirements

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3A2L1		COIL, RADIO FREQUENCY: single layer wound; no. 36 AWG; 455 kc; mfr code 81815, part no. X063-2	5-41
3A3A2L2		COIL, RADIO FREQUENCY: same as 3A3A2L1	5-41
3A3A2L3		TRANSFORMER, INTERMEDIATE FREQUENCY: 455 kc; no. 26 AWG; tapped; mfr code 81815, part no. X066-1	5-41
3A3A2L4		COIL, RADIO FREQUENCY: single layer wound; no. 36 AWG; 455 kc; mfr code 81815, part no. X062-1	5-41
3A3A2P1		CONNECTOR, PLUG, ELECTRICAL: printed circuit plug feedthru, p/o Signal I.F., built in	
3A3A2Q1		NOT USED	
3A3A2Q2		NOT USED	
3A3A2Q3		TRANSISTOR: silicon; mfr code 96214, part no. 2N64	5-41
3A3A2Q4		TRANSISTOR: same as 3A3A2Q3	5-41
3A3A2Q5		TRANSISTOR: same as 3A3A2Q3	5-41
3A3A2Q6		TRANSISTOR: same as 3A3A2Q3	5-41
3A3A2R1		NOT USED	
3A3A2R2		NOT USED	
3A3A2R3		NOT USED	
3A3A2R4		RESISTOR, FIXED, FILM: MIL type RN65B4640F	5-41
3A3A2R5		RESISTOR, FIXED, FILM: MIL type RN65B1002F	5-41
3A3A2R6		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF184K	5-41
3A3A2R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-41
3A3A2R8		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF562K	5-41
3A3A2R9		RESISTOR, FIXED, FILM: MIL type RN65B4221F	5-41
3A3A2R10		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF821K	5-41
3A3A2R11		RESISTOR, FIXED, FILM: MIL type RN65B7500F	5-41
3A3A2R12		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R8	5-41
3A3A2R13		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF183K	5-41
3A3A2R14		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF221K	5-41
3A3A2R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF682K	5-41
3A3A2R16		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R13	5-41
3A3A2R17		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R4	5-41
3A3A2R18		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R8	5-41
3A3A2R19		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF680K	5-41
3A3A2R20		NOT USED	
3A3A2R21		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R13	5-41
3A3A2R22		NOT USED	
3A3A2R23		NOT USED	
*3A3A2R24		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF100K	5-41
*3A3A2R24		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF180K	5-41
*3A3A2R24		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF270K	5-41
*3A3A2R24		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF390K	5-41
*3A3A2R24		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF470K	5-41
*3A3A2R24		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF680K	5-41
*3A3A2R24		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF101K	5-41
3A3A2R25		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF473J	5-41
3A3A2R26		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R25	5-41
3A3A2R27		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF104K	
3A3A2R28		RESISTOR, FIXED, FILM: MIL type RN65B2152F	5-41

\*Chosen per operational requirements



TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3A2R29		RESISTOR, FIXED, FILM: same as 3A3A2R28	5-41
3A3A2R30		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF563K	5-41
3A3A2R31		RESISTOR, FIXED, COMPOSITION: same as 3A3A2R10	5-41
3A3A2S1		SWITCH, THERMOSTATIC: spst; contacts open on temp increase; 75°C temp setting; bimetal element; 115 v ac at 2.5 amp; 28 v dc at 2.0 amp; mfr code 73168, part no. 32400-0-167	
3A3A2T1		TRANSFORMER, INTERMEDIATE FREQUENCY: 425 to 485 kc tuning range; interstage; shielded; 1/2 in. h by 17/32 in. od; powered iron coil form; mfr code 81815, part no. X100-2	5-41
3A3A2T2		TRANSFORMER, INTERMEDIATE FREQUENCY: 455 kc frequency; mfr code 81815, part no. X065-1	5-41
3A3A2T3		TRANSFORMER, INTERMEDIATE FREQUENCY: same as 3A3A2T2	5-41
3A3A2T4		TRANSFORMER, INTERMEDIATE FREQUENCY: 450 to 460 kc tuning range; interstage; shielded; 1/2 in. h by 17/32 in. od; powdered iron coil form; mfr code 81815, part no. X099-2	5-41
3A3A2TB1		TERMINAL BOARD: plastic glass epoxy; 1/16 in. thk by 4.062 in. w by 6 in. lg overall; incl 14 terminals, 12 eyelets, 139 tubelets, 4 transistor clips, 2 test points and one test point bracket; mfr code 13499, part no. 545-5865-005	
3A3A3		CONVERTER-OSCILLATOR CV-731/URC, SMO MODEL A AND B, I-F MIXER: 3.37 to 3.53 mc frequency input; 6.3 v ac, +130 v dc operating voltages; mfr code 13499, part no. 543-1768-003	
3A3A3C1		CAPACITOR, FIXED, PAPER DIELECTRIC: 33,000 uuf ±20%, 200 v dc; mfr code 56289, part no. 118P33302S3	5-38
3A3A3C2		NOT USED	
3A3A3C3		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A3C1	5-38
3A3A3C4		NOT USED	
3A3A3C5		CAPACITOR, FIXED, MICA DIELECTRIC: 120 uuf ±20%, 500 v dc; mfr code 14655, part no. 22H5T12EG	5-38
3A3A3C6		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A3C1	5-38
3A3A3C7		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A3C1	5-38
3A3A3C8		CAPACITOR, FIXED, MICA DIELECTRIC: 430 uuf ±2%, 500 v dc; mfr code 14655, part no. 22H5T43EG	5-38
3A3A3C9		NOT USED	
3A3A3C10		CAPACITOR, FIXED, MICA DIELECTRIC: 100 uuf ±2%, 500 v dc; mfr code 14655, part no. 22H5T1EG	5-38
3A3A3C11		CAPACITOR, FIXED, MICA DIELECTRIC: 200 uuf ±2%, 500 v dc; mfr code 14655, part no. 22H5T2EG	
3A3A3E1		SHIELD, ELECTRON TUBE: accommodate tube style T-3; mfr code 99378, part no. 109-501-4	5-38
3A3A3E2		SHIELD, ELECTRON TUBE: same as 3A3A3E1	5-38
3A3A3FL1		FILTER, BAND PASS: 970 to 1130 kc freq range; mfr code 13499, part no. 542-3153-004	5-38
3A3A3FL2		FILTER, BAND PASS: 455 kc center freq; 0.5 kc at 6 db bandwidth; 10 ohms impedance; mfr code 95105, part no. F455Q3	5-38
3A3A3P1		CONNECTOR, PLUG, ELECTRICAL: printed circuit plug feedthru, p/o I-F Mixer, built in	
3A3A3R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF224K	5-38
3A3A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF823K	5-38
3A3A3R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF561K	5-38
3A3A3R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF393K	5-38
3A3A3R5		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-38

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3A3R6		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF822K	5-38
3A3A3R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF473K	5-38
3A3A3R8		RESISTOR, FIXED, COMPOSITION: same as 3A3A3R4	5-38
3A3A3R9		RESISTOR, FIXED, COMPOSITION: same as 3A3A3R5	5-38
3A3A3R10		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF152K	5-38
3A3A3T1		TRANSFORMER, INTERMEDIATE FREQUENCY: 2.4 mc freq; mfr code 81815, part no. X061-1	5-38
3A3A3TB1		PRINTED CIRCUIT BOARD: plastic board; incl 14 terminals, 55 tubelets and 3 tube clips; mfr code 13499, part no. 543-1783-003	5-38
3A3A3V1		ELECTRON TUBE: subminiature pentode; mfr code 82219, part no. 5636	5-38
3A3A3V2		ELECTRON TUBE: same as 3A3A3V1	5-38
3A3A3		I-F MIXER STAGE, FREQUENCY: MODEL C; mfr code 13499, part no. 547-3766-004	
3A3A3C1		CAPACITOR, FIXED, CERAMIC DIELECTRIC: MIL type CK06CW103K	
3A3A3C2		NOT USED	
3A3A3C3		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3A3C1	
3A3A3C4		NOT USED	
3A3A3C5		NOT USED	
3A3A3C6		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3A3C1	
3A3A3C7		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A3A3C1	
3A3A3C8		CAPACITOR, FIXED, MICA: 430 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T43EG	
3A3A3C9		NOT USED	
3A3A3C10		CAPACITOR, FIXED, MICA DIELECTRIC: 100 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, 22H5T1EG	
3A3A3C11		CAPACITOR, FIXED, MICA: 200 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T2EG	
3A3A3E1		SHIELD, ELECTRON TUBE: accommodates tube style T-3; 0.400 in. dia, 1.188 in. lg; mfr code 99378, part no. 109-501-4	
3A3A3E2		SHIELD, ELECTRON TUBE: same as 3A3A3E1	
3A3A3FL1		FILTER, BAND PASS: 0.97-1.13 mc frequency range; mfr code 13499, part no. 542-3153-004	
3A3A3FL2		FILTER, BAND PASS: 455 kc operating frequency, 60 to 120 kc bandwidth; 15,000 ohms input, 2,000 ohms output; mfr code 81815, part no. X215-2	
3A3A3P1		CONNECTOR, PLUG, ELECTRICAL: printed circuit plug feedthru, p/o I-F Mixer, built in (mates w/J5)	
3A3A3R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF224K	
3A3A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF823K	
3A3A3R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF471K	
3A3A3R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF393K	
3A3A3R5		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	
3A3A3R6		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF822K	
3A3A3R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF473K	
3A3A3R8		RESISTOR, FIXED, COMPOSITION: same as 3A3A3R3	
3A3A3R9		RESISTOR, FIXED, COMPOSITION: same as 3A3A3R5	
3A3A3R10		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF152K	
3A3A3R11		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF153K	
3A3A3T1		TRANSFORMER, INTERMEDIATE FREQUENCY: 2.4 mc; 10 turns of #10 AWG wire; mfr code 81815, part no. X061-1	
3A3A3TB1		PRINTED CIRCUIT BOARD: plastic, 0.125 in. by 2.650 in. by 3.500 in., incl hardware; mfr code 13499, part no. 543-1783-003	

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3A3V1		ELECTRON TUBE: glass envelope; sharp cut-off pentode; mfr code 82219, part no. 5636	
3A3A3V2		ELECTRON TUBE: same as 3A3A3V1	
3A3A5		CONVERTER-OSCILLATOR CV-731/URC, SMO, INTERPOLATION	
		OSCILLATOR: 6.3 v ac, 130 v dc, operating voltage; 549 to 645 kc operating frequency; mfr code 13499, part no. 542-5720-003	
3A3A6		CONVERTER-OSCILLATOR CV-731/URC, SMO, 4 KC SPECTRUM GENERATOR: 27.5 v dc, 130 v dc, 6.3 v ac, operating voltages; 4 kc input frequency, 455 kc output frequency; mfr code 13499, part no. 544-2640-004	
3A3A6C1		CAPACITOR, FIXED, PAPER DIELECTRIC: 4700 uuf $\pm 20\%$ , 300 v dc; mfr code 56289, part no. 186P47203S3	5-39
3A3A6C2		NOT USED	
3A3A6C3		CAPACITOR, FIXED, MICA DIELECTRIC: 330 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5T33EJ	5-39
3A3A6C4		CAPACITOR, FIXED, ELECTROLYTIC: 2.2 uf $\pm 20\%$ , 35 v dc; mfr code 56289, part no. 150D225X0035B2	5-39
3A3A6C5		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A6C3	5-39
3A3A6C6		CAPACITOR, FIXED, MICA DIELECTRIC: 430 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T43EG	5-39
3A3A6C7		CAPACITOR, FIXED, ELECTROLYTIC: mfr code 56289, part no. 150D224X0034A2	5-39
3A3A6C8		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A6C3	5-39
3A3A6C9		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A6C3	5-39
3A3A6C10		CAPACITOR, FIXED, MICA DIELECTRIC: 510 uuf $\pm 2\%$ , 300 v dc; mfr code 14655, part no. 22H5T51EG	5-39
3A3A6C11		CAPACITOR, FIXED, ELECTROLYTIC: MIL type CL25BJ180UP3	5-39
3A3A6C12		NOT USED	
3A3A6C13		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A3A6C7	5-39
3A3A6C14		CAPACITOR, FIXED, PAPER DIELECTRIC: 68,000 uuf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 186P68302S3	5-39
3A3A6CR1		SEMICONDUCTOR DEVICE, DIODE: mfr code 07688, JETEC type 1N198	5-39
3A3A6CR2		SEMICONDUCTOR DEVICE, DIODE: same as 3A3A6CR1	5-39
3A3A6CR3		SEMICONDUCTOR DEVICE, DIODE: same as 3A3A6CR1	5-39
3A3A6E1		SHIELD, ELECTRON TUBE: style T-3; mfr code 99378, part no. 109-501-4	5-39
3A3A6FL1		FILTER, BAND PASS: 1.0 to 1.1 mc frequency range; mfr code 13499, part no. 543-3152-004	5-39
3A3A6P1		CONNECTOR, PLUG, RECEPTACLE: printed circuit plug feedthru, p/o 4-Kc Spec. Gen., built in	5-39
3A3A6Q1		TRANSISTOR: silicon; mfr code 96214, part no. 2N264	5-39
3A3A6Q2		TRANSISTOR: same as 3A3A6Q1	5-39
3A3A6Q3		TRANSISTOR: same as 3A3A6Q1	5-39
3A3A6R1		NOT USED	
3A3A6R2		NOT USED	
3A3A6R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF104K	5-39
3A3A6R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF563K	5-39
3A3A6R5		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF123K	5-39
3A3A6R6		NOT USED	
3A3A6R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF682K	
3A3A6R8		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF124K	5-39
3A3A6R9		NOT USED	
3A3A6R10		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-39

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3A6R11		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF222K	5-39
3A3A6R12		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF223K	5-39
3A3A6R13		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF681K	5-39
3A3A6R14		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF153K	5-39
3A3A6R15		RESISTOR, FIXED, COMPOSITION: same as 3A3A6R10	5-39
3A3A6R16		RESISTOR, FIXED, COMPOSITION: same as 3A3A6R10	5-39
3A3A6R17		RESISTOR, FIXED, COMPOSITION: same as 3A3A6R12	5-39
3A3A6R18		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF561K	5-39
3A3A6R19		NOT USED	
3A3A6R20		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF102K	5-39
3A3A6T1		TRANSFORMER, INTERMEDIATE FREQUENCY: 1050 kc; mfr code 81815, part no. X068-1	5-39
3A3A6TB1		PRINTED CIRCUIT BOARD: plastic glass epoxy; 1/16 in. thk; 3.550 in. by 2.959 in.; mfr code 13499, part no. 544-2638-004	5-39
3A3A6V1		ELECTRON TUBE: mfr code 82219, part no. 5636	5-39
3A3A7		CONVERTER-OSCILLATOR CV-731/URC, SMO, REFERENCE I-F AMPLIFIER: 27.5 v dc operating voltage; 455 kc operating frequency; mfr code 13499, part no. 544-2634-004	
3A3A7C1		CAPACITOR, FIXED, MICA DIELECTRIC: 82 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5Q82EG	5-37
3A3A7C2		CAPACITOR, FIXED, MICA DIELECTRIC: 180 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T18EG	5-37
3A3A7C3		CAPACITOR, FIXED, MICA DIELECTRIC: 510 uuf $\pm 2\%$ , 300 v dc; mfr code 14655, part no. 22H5T51EG	5-37
3A3A7C4		NOT USED	
3A3A7C5		CAPACITOR, FIXED, MICA DIELECTRIC: 200 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T2EG	5-37
3A3A7C6		CAPACITOR, FIXED, PAPER DIELECTRIC: 33,000 uuf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 118P33302S3	5-37
3A3A7C7		CAPACITOR, FIXED, ELECTROLYTIC: 10 uf $\pm 20\%$ , 20 v dc; mfr code 56289, part no. 150D106X0020B2	5-37
3A3A7C8		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A7C6	5-37
3A3A7C9		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A7C6	5-37
3A3A7C10		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A7C5	5-37
3A3A7C11		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A7C6	5-37
3A3A7C12		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A3A7C7	5-37
3A3A7C13		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A7C6	5-37
3A3A7C14		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A3A7C5	5-37
3A3A7C15		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A3A7C7	5-37
3A3A7C16		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A3A7C6	5-37
3A3A7CR1		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 73293, part no. 1N457	5-37
3A3A7CR2		SEMICONDUCTOR DEVICE, DIODE: germanium; hermetically sealed; mfr code 93983, part no. 1N270	5-37
3A3A7FL1		FILTER, BAND PASS: 455 kc freq; 0.800 kc at 6 db bandwidth; 17,000 ohms input and output impedance; mfr code 95105, part no. F468UO3	5-37
3A3A7J1		JACK, TIP: std phone tip contact element accommodated; teflon insulation; mfr code 98291, part no. SKT5BCWHITE	5-37
3A3A7J2		JACK, TIP: same as 3A3A7J1	5-37
3A3A7L1		COIL, RADIO FREQUENCY: single layer wound; no. 36 AWG; 455 kc; mfr code 81815, part no. X062-1	5-37

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3A7L2		TRANSFORMER, INTERMEDIATE FREQUENCY: 455 kc; no. 26 AWG; tapped; mfr code 81815, part no. X066-1	5-37
3A3A7P1		CONNECTOR, PLUG, ELECTRICAL: printed circuit plug feedthru, p/o Ref. I.F., built in	5-37
3A3A7Q1		TRANSISTOR: silicon; mfr code 96214, part no. 2N264	5-37
3A3A7Q2		TRANSISTOR: same as 3A3A7Q1	5-37
3A3A7Q3		TRANSISTOR: same as 3A3A7Q1	5-37
3A3A7R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF221K	5-37
3A3A7R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF183K	5-37
3A3A7R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF680K	5-37
3A3A7R4		RESISTOR, FIXED, COMPOSITION: MIL type RC09GF122K	5-37
3A3A7R5		RESISTOR, FIXED, FILM: MIL type RN65B7501F	5-37
3A3A7R6		RESISTOR, FIXED, COMPOSITION: MIL type RC09GF182K	5-37
3A3A7R7		RESISTOR, FIXED, COMPOSITION: MIL type RC09GF103K	5-37
3A3A7R8		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF562K	5-37
3A3A7R9		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-37
3A3A7R10		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF562J	5-37
3A3A7R11		RESISTOR, FIXED, FILM: MIL type RN65B2870F	5-37
3A3A7R12		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF274K	5-37
3A3A7R13		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF333K	5-37
3A3A7R14		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF153K	5-37
3A3A7R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF682K	5-37
3A3A7T1		TRANSFORMER, INTERMEDIATE FREQUENCY: 455 kc; mfr code 81815, part no. X065-1	5-37
3A3A7T2		TRANSFORMER, INTERMEDIATE FREQUENCY: 455 kc; mfr code 81815, part no. X077-1	5-37
3A3A7TB1		JACK, ASSEMBLY, TIP: c/o 2 std phone tip contact element accommodated tip jacks; mfr code 13499, part no. 543-1778-003	5-37
3A3A8		CONVERTER-OSCILLATOR CV-731/URC, DIRECT CURRENT METER AMPLIFIER SUBASSEMBLY; MODEL B; mfr code 13499 part no. 546-7885-004	
3A3A8CR1		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 03877, part no. 1N816	5-42
3A3A8CR2		SEMICONDUCTOR DEVICE, DIODE: same as 3A3A8CR1	5-42
3A3A8R1		RESISTOR, VARIABLE, WIREWOUND: 20,000 ohms $\pm 5\%$ , 1/2 w; 1 w when mtd on 4 in. sq steel panel; mfr code 80294, part no. 224L1-203	5-42
3A3A8R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF272K	5-42
3A3A8R3		RESISTOR, FIXED, COMPOSITION: same as 3A3A8R2	5-42
3A3A8R4		NOT USED	
3A3A8R5		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF561K	5-41
3A3A8R6		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF331K	5-41
3A3A8R7		RESISTOR, FIXED, FILM: MIL type RN65B4221F	5-41
3A3A8V1		ELECTRON TUBE: mfr code 24446, part no. 6021	5-41
3A3A8		AMPLIFIER, DIRECT CURRENT: MODEL C; 10 v gain; single phase, 6.3 v, 60 cycles alternating current; 130 v and 28 v direct current; 5000 ohms output impedance; 0.500 in. by 3.000 in. 4.000 in. o/a dim.; mfr code 13499, part no. 548-8058-004	
3A3A8CR1		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 03877, part no. 1N816	
3A3A8CR2		SEMICONDUCTOR DEVICE, DIODE: same as 3A3A8CR1	
3A3A8R1		RESISTOR, VARIABLE, WIREWOUND: 20,000 ohms $\pm 5\%$ , 1 w; mfr code 80294, part no. 224L1-203	
3A3A8R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF272K	
3A3A8R3		RESISTOR, FIXED, COMPOSITION: same as 3A3A8R2	

TABLE 6-2. (Continued)

CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A3A8R4		NOT USED	
3A3A8R5		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF561K	
3A3A8R6		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF331K	
3A3A8R7		RESISTOR, FIXED, FILM: MIL type RN65B6191F	
3A3A8V1		ELECTRON TUBE: Subminiature Twin Triode; mfr code 24446, part no. 6021	
3A4		CONVERTER-OSCILLATOR CV-731/URC, R-F TUNER: 130 v dc, 6.3 v ac, 28 v dc, -90 v dc, 250 v dc operating voltage; 2 to 4 mc and 300 kc input frequencies, 2 to 30 mc output frequency; mfr code 13499, part no. 542-7792-005	
3A4B1		MOTOR, DIRECT CURRENT: permanent magnet; 27.5 v dc, 0.120 amp; mfr code 25140, part no. 43A159	5-26
OR			
3A4B1		MOTOR, DIRECT CURRENT: 27.5 v, 0.120 amp; mfr code 89321, part no. 2643-2	5-26
3A4C1		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 10,000 uuf +100 -20%, 500 v dc; mfr code 71590, part no. DA049-123B	5-21
3A4C2		CAPACITOR, FIXED, MICA DIELECTRIC: 130 uuf ±2%, 500 v dc (p/o 3A4Z1); mfr code 14655, part no. 22H5T13EG	
3A4C3		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 8.0 to 75.0 uuf, 350 v dc (p/o 3A4Z1) mfr code 72982, part no. 3188003	
3A4C4		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C5		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 3.0 uuf ±1/2 uuf, 500 v dc; mfr code 72982, part no. 331026C0J0309D	5-27
3A4C6		CAPACITOR, FIXED, MICA DIELECTRIC: 150 uuf ±2%, 500 v dc (p/o 3A4Z2); mfr code 14655, part no. 22H5T15EG	
3A4C7		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 8 to 75 uuf, 350 v dc (p/o 3A4Z2), mfr code 72982, part no. 3172000U2P034R	
3A4C8		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C5	5-27
3A4C9		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C6 (p/o 3A4Z3)	
3A4C10		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C3 (p/o 3A4Z3)	
3A4C11		CAPACITOR, FIXED, MICA DIELECTRIC: 100 uuf ±10%, 500 vdc; mfr code 72136, part no. VCM15E101K	5-27
3A4C12		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C13		CAPACITOR, FIXED, MICA DIELECTRIC: 20 uuf ±5%, 500 v dc; mfr code 14655, part no. 22H5Q2CJ	5-27
3A4C14		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C6 (p/o 3A4Z4)	
3A4C15		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C5	5-27
3A4C16		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C3 (p/o 3A4Z4)	
3A4C17		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C18		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C6 (p/o 3A4Z5)	
3A4C19		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C7 (p/o 3A4Z5)	
3A4C20		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 75 uuf ±5%, 500 v dc; w/#9841 durez dip added (p/o 3A4Z6); mfr code 72982, part no. 338023S2H0750J	
3A4C21		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C5	5-27
3A4C22		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 36 uuf ±5%, 500 v dc; w/#9841 durex dip added (p/o 3A4Z6); mfr code 72982, part no. 338026COHO360J	
3A4C23		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C24		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C3 (p/o 3A4Z6)	

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4C25		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 5 to 37.5 uuf, 350 v dc; mfr code 72982, part no. 557018COPO39R	5-27
3A4C26		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C5	5-27
3A4C27		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C5	5-27
3A4C28		CAPACITOR, FIXED, MICA DIELECTRIC: 56 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z7); mfr code 14655, part no. 22H5Q56EG	
3A4C29		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 5.0 to 37.5 uuf, 350 v dc (p/o 3A4Z7); mfr code 72982, part no. 3188002	
3A4C30		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 56 uuf $\pm 5\%$ , 500 v dc (p/o 3A4Z8); mfr code 72982, part no. 338026R2HO560J	
3A4C31		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z8)	
3A4C32		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1.0 uuf $\pm 1/4$ uuf, 500 v dc; mfr code 72982, part no. 331026COKO109C	5-27
3A4C33		CAPACITOR, FIXED, MICA DIELECTRIC: 43 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z9); mfr code 14655, part no. 22H5Q43DG	
3A4C34		CAPACITOR, VARIABLE CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z9)	
3A4C35		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 39 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z10); mfr code 72982, part no. 338026R2HO390G	
3A4C36		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z10)	
3A4C37		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C32	5-27
3A4C38		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C32	5-27
3A4C39		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 3.0 to 18.0 uuf, 350 v dc (p/o 3A4Z11); mfr code 72982, part no. 3188001	
3A4C40		CAPACITOR, FIXED, MICA DIELECTRIC: 30 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z12); mfr code 14655, part no. 22H5Q3DG	
3A4C41		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39 (p/o 3A4Z12)	
3A4C42		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 5.0 uuf $\pm 1/2$ uuf, 500 v dc (p/o 3A4Z13); mfr code 72982, part no. 331026S2HO509D	
3A4C43		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39 (p/o 3A4Z13)	
3A4C44		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C45		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C46		CAPACITOR, FIXED, MICA DIELECTRIC: 12 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q12CJ	5-27
3A4C47		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C48		CAPACITOR, FIXED, MICA DIELECTRIC: 22 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q22CJ	5-27
3A4C49		CAPACITOR, FIXED, MICA DIELECTRIC: 180 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z14); mfr code 14655, part no. 22H5T18EG	
3A4C50		CAPACITOR, FIXED, MICA DIELECTRIC: 390 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z14); mfr code 14655, part no. 22H5T39EG	
3A4C51		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C3 (p/o 3A4Z14)	
3A4C52		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 62 uuf $\pm 5\%$ , 500 v dc (p/o 3A4Z15); mfr code 72982, part no. 338023S2HO620J	
3A4C53		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C6 (p/o 3A4Z15)	
3A4C54		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z15)	

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4C55		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 43 uuf $\pm 5\%$ , 500 v dc (p/o 3A4Z16); mfr code 72982, part no. 338023P2HO430J	
3A4C56		CAPACITOR, FIXED, MICA DIELECTRIC: 220 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z16); mfr code 14655, part no. 22H5T22EG	
3A4C57		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z16)	
3A4C58		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C42 (p/o 3A4Z17)	
3A4C59		CAPACITOR, FIXED, MICA DIELECTRIC: 24 uuf $\pm 5\%$ , 500 v dc (p/o 3A4Z17); mfr code 14655, part no. 22H5Q24CJ	
3A4C60		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39 (p/o 3A4Z17)	
3A4C61		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C62		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C63		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C64		CAPACITOR, FIXED, MICA DIELECTRIC: 62 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z18); mfr code 14655, part no. 22H5Q68EG	
3A4C65		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z18)	
3A4C66		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1.5 uuf $\pm 1/4$ uuf, 500 v dc; mfr code 72982, part no. 331026COKO159C	5-27
3A4C67		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1000 uuf $-0\%$ $+100\%$ at room temp, 500 v dc; mfr code 71590, part no. 913-1476-00	5-27
3A4C68		CAPACITOR, FIXED, MICA DIELECTRIC: 82 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z19); mfr code 14655, part no. 22H5Q75EG	
3A4C69		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29	
3A4C70		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C66	5-27
3A4C71		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z20)	
3A4C72		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C2 (p/o 3A4Z20)	
3A4C73		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C2	
3A4C74		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. P79551	5-27
3A4C75		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 400 v dc; mfr code 56289, part no. 186P10404S15	5-27
3A4C76		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A4C75	5-27
3A4C77		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C3 (p/o 3A4Z21)	
3A4C78		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C6 (p/o 3A4Z21)	
3A4C79		CAPACITOR, FIXED, MICA DIELECTRIC: 360 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z21); mfr code 14655, part no. 22H5T36EG	
3A4C80		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z22)	
3A4C81		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C68 (p/o 3A4Z22)	
3A4C82		CAPACITOR, FIXED, MICA DIELECTRIC: 470 uuf $\pm 2\%$ , 300 v dc (p/o 3A4Z22); mfr code 14655, part no. 22H5T47EG	
3A4C83		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C79 (p/o 3A4Z22)	
3A4C84		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z23)	
3A4C85		CAPACITOR, FIXED, MICA DIELECTRIC: 51 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z23); mfr code 14655, part no. 22H5Q51EG	



TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4C86		CAPACITOR, FIXED, MICA DIELECTRIC: 430 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z23); mfr code 14655, part no. 22H5T43EG	
3A4C87		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39 (p/o 3A4Z24)	
3A4C88		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C25 (p/o 3A4Z24)	
3A4C89		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C56 (p/o 3A4Z24)	
3A4C90		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C91		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 8 to 50 uuf, 350 v dc; mfr code 72982, part no. 3173000U2PO34R	
3A4C92		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	
3A4C93		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C13	5-27
3A4C94		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C95		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C96		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C97		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C98		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C99		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C100		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C101		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C102		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C103		NOT USED	
3A4C104		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C105		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C106		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C107		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C108		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C109		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1000 uuf $+100 -20\%$ , 500 v dc; mfr code 71590, part no. BB61-102TW6X	5-27
3A4C110		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C111		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C112		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C113		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C114		NOT USED	
3A4C115		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C116		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C117		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C118		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C6 (p/o 3A4Z25)	
3A4C119		CAPACITOR, FIXED, MICA DIELECTRIC: 2400 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z25); mfr code 72136, part no. DM20F242G500WV	
3A4C120		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C3 (p/o 3A4Z25)	
3A4C121		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C2	5-27
3A4C122		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C123		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C124		NOT USED	
3A4C125		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39 (p/o 3A4Z26)	
3A4C126		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 68 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z26); mfr code 72982, part no. 338026R2H0680G	

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4C127		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1 uuf $\pm 1/2$ uuf, 500 v dc (p/o 3A4Z26); mfr code 72982, part no. 331026COKO109D	
3A4C128		CAPACITOR, FIXED, MICA DIELECTRIC: 62 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z26); mfr code 14655, part no. 22H5Q62EG	
3A4C129		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 3 to 12 uuf, 350 v dc (p/o 3A4Z27); mfr code 72982, part no. 3171000COPO17R	
3A4C130		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 20 uuf $\pm 5\%$ , 500 v dc (p/o 3A4Z27); mfr code 72982, part no. 331026S2HO200J	
3A4C131		CAPACITOR, FIXED, MICA DIELECTRIC: 180 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z27); mfr code 14655, part no. 22H5T18EG	
3A4C132		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C133		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C134		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C135		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C136		NOT USED	
3A4C137		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C126 (p/o 3A4Z28)	
3A4C138		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 5 to 25 uuf, 350 v dc (p/o 3A4Z28); mfr code 72982, part no. 3171000COPO39R	
3A4C139		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 4 uuf $\pm 1/2$ uuf, 500 v dc; mfr code 72982, part no. 331026COHO409D	5-27
3A4C140		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 24 uuf $\pm 5\%$ , 500 v dc; w/#9841 durex dip added (p/o 3A4Z29); mfr code 72982, part no. 331023R2HO240J	
3A4C141		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39 (p/o 3A4Z29)	
3A4C142		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C143		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C59	5-27
3A4C144		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C139	5-27
3A4C145		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 2 uuf $\pm 1/2$ uuf, 500 v dc; mfr code 72982, part no. 331026COKO209D	5-27
3A4C146		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 2.4 uuf $\pm 5\%$ , 500 v dc; mfr code 78488, part no. GA2-4UUFPO5PCT	5-27
3A4C147		NOT USED	
3A4C148		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C40 (p/o 3A4Z30)	
3A4C149		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39 (p/o 3A4Z30)	
3A4C150		NOT USED	
3A4C151		NOT USED	
3A4C152		NOT USED	
3A4C153		NOT USED	
3A4C154		NOT USED	
3A4C155		NOT USED	
3A4C156		NOT USED	
3A4C157		NOT USED	
3A4C158		NOT USED	
3A4C159		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C160		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C161		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C162		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C163		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4C164		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C165		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C166		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C167		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C168		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C169		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C170		NOT USED	
3A4C171		CAPACITOR, FIXED, MICA DIELECTRIC: 240 uuf $\pm 10\%$ , 500 v dc; mfr code 72136, part no. VCM15E241K	5-26
3A4C172		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C173		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C174		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C175		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C176		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C91 (p/o 3A4Z28)	
3A4C177		CAPACITOR, FIXED, MICA DIELECTRIC: 330 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T33EG	5-27
3A4C178		CAPACITOR, FIXED, MICA DIELECTRIC: 390 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T39EG	5-27
3A4C179		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C180		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C2	5-27
3A4C181		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C66	
3A4C182		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C66	
3A4C183		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	
3A4CR1		SEMICONDUCTOR DEVICE, DIODE: germanium; mfr code 73293, part no. HD2123	5-26
3A4CR2		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 73293, part no. 1N457	
3A4CR3		SEMICONDUCTOR DEVICE, DIODE: same as 3A4CR2	
3A4E1		SHIELD, ELECTRON TUBE: 7 pin medium; brass, incl copper insert; mfr code 13499, part no. 541-6554-003	5-28
3A4E2		SHIELD, ELECTRON TUBE: 7 pin miniature; brass, incl copper insert; mfr code 13499, part no. 541-6551-003	5-28
3A4E3		SHIELD, ELECTRON TUBE: same as 3A4E1	5-28
3A4E4		SHIELD, ELECTRON TUBE: same as 3A4E2	5-28
3A4E5		SHIELD, ELECTRON TUBE: same as 3A4E2	5-28
3A4E6		SHIELD, ELECTRON TUBE: 9 pin noval, brass; incl copper insert; mfr code 13499, part no. 541-6555-003	5-28
3A4E7		SHIELD, ELECTRON TUBE: same as 3A4E2	5-28
3A4E8		SHIELD, ELECTRON TUBE: same as 3A4E2	5-28
3A4E9		SHIELD, ELECTRON TUBE: 7 pin miniature; brass; incl copper insert; mfr code 13499, part no. 541-6550-003	5-28
3A4E10		SHIELD, ELECTRON TUBE: same as 3A4E2	5-28
3A4E11		TERMINAL, FEEDTHRU, INSULATED: brass conductor, teflon insulation; mfr code 98291, part no. FTSM1	5-26
3A4E12		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E13		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E14		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E15		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E16		NOT USED	
3A4E17		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E18		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4E19		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E20		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E21		TERMINAL, STUD: tube pin type brass conductor, teflon insulation; mfr code 98291, part no. STSM1	5-26
3A4E22		JACK, TIP: std phone tip contact element accommodated; plastic insulation; mfr code 98291, part no. SKT1	5-26
3A4E23		TERMINAL, STUD: brass conductor, 0.218 in. dia by 0.489 in. lg overall; mfr code 12615, part no. 1985	5-26
3A4E24		CORE, ADJUSTABLE TUNING: powdered iron; permeability 0.5 to 32 mc frequency range; mfr code 78488, part no. 57-802	5-28
3A4E25		TERMINAL, STUD: same as 3A4E21	
3A4E26		TERMINAL, STUD: same as 3A4E21	
3A4E27		TERMINAL, FEEDTHRU, INSULATED: brass hex, melamine, 2-56 NC-2, top 5/64 in. deep, 13/32 in. lg; mfr code 92825, part no. 4D4A12	
3A4H1		NUT, SELF-LOCKING, HEXAGON: type 303 passivated steel; 4-40 NC-2B thd, 3/8 in. lg by 1/4 in. across hex; mfr code 13499, part no. 543-2887-002	5-28
3A4H2		NOT USED	
3A4H3		SCREW, EXTERNALLY RELIEVED BODY: passivated steel; 8-32 NC-2A thd; 4 in. lg; mfr code 13499, part no. 543-2922-002	5-26 & 5-28
3A4H4		SHIM: chromate dipped aluminum; 3/4 in. by 5/16 in. by 0.032 in.; mfr code 13499, part no. 543-2925-002	5-28
3A4J1		JACK, TIP: std phone tip contact element accommodated, teflon insulation (p/o 3A4Z2); mfr code 98291, part no. SKT5BCWHITE	5-26 & 5-28
3A4J2		JACK, TIP: same as 3A4J1	5-26 & 5-28
3A4J3		JACK, TIP: same as 3A4J1	5-26 & 5-28
3A4J4		JACK, TIP: same as 3A4J1 (p/o 3A4Z5)	5-26 & 5-28
3A4J5		JACK, TIP: same as 3A4J1	5-26 & 5-28
3A4J6		JACK, TIP: same as 3A4J1	5-26 & 5-28
3A4J7		JACK, TIP: same as 3A4J1	5-26 & 5-28
3A4J8		JACK, TIP: same as 3A4J1	5-26 & 5-28
3A4J9		JACK, TIP: same as 3A4J1	5-26 & 5-28

TABLE 6-2. (Continued)

CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4J10		JACK, TIP: same as 3A4J1	5-26
3A4J11		JACK, TIP: same as 3A4J1	& 5-28
3A4J12		JACK, TIP: same as 3A4J1	5-26 & 5-28
3A4J13		JACK, TIP: same as 3A4J1	5-26 & 5-28
3A4J14		JACK, TIP: same as 3A4J1	5-26 & 5-28
3A4J15		JACK, TIP: same as 3A4J1	5-26 & 5-28
3A4J16		JACK, TIP: same as 3A4J1	5-28
3A4K1		RELAY, ARMATURE: 2C, 30 v dc at 2 amps resistive; 1 inductive winding, 27.5 v ac, 450 ohms, 0.06 amps approx; mfr code 44038, part no. IR207508184	5-28
3A4K2		RELAY, ARMATURE: 2A, 1B; 28 v dc at 250 ma; 1 inductive winding, 26.5 v dc, 720 ohms, 0.03 amp approx; mfr code 04221, part no. 95-2943	5-26
3A4L1		COIL, RADIO FREQUENCY: 1.7 to 3.7 mc frequency range (p/o 3A4Z1); mfr code 13499, part no. 543-2950-002	5-28
3A4L2		COIL, RADIO FREQUENCY: same as 3A4L1 (p/o 3A4Z2)	
3A4L3		COIL, RADIO FREQUENCY: same as 3A4L1 (p/o 3A4Z3)	
3A4L4		COIL, RADIO FREQUENCY: same as 3A4L1 (p/o 3A4Z4)	
3A4L5		COIL, RADIO FREQUENCY: same as 3A4L1 (p/o 3A4Z5)	
3A4L6		COIL, RADIO FREQUENCY: same as 3A4L1 (p/o 3A4Z6)	
3A4L7		COIL, RADIO FREQUENCY: 3.7 to 7.7 mc frequency range (p/o 3A4Z7); mfr code 13499, part no. 543-2945-002	
3A4L8		COIL, RADIO FREQUENCY: same as 3A4L7 (p/o 3A4Z8)	
3A4L9		COIL, RADIO FREQUENCY: 7.7 to 15.7 mc frequency range (p/o 3A4Z9); mfr code 13499, part no. 543-2946-002	
3A4L10		COIL, RADIO FREQUENCY: same as 3A4L9 (p/o 3A4Z10)	
3A4L11		COIL, RADIO FREQUENCY: 15.7 to 31.7 mc frequency range (p/o 3A4Z11); mfr code 13499, part no. 543-2947-002	
3A4L12		COIL, RADIO FREQUENCY: same as 3A4L11 (p/o 3A4Z12)	
3A4L13		COIL, RADIO FREQUENCY: same as 3A4L11 (p/o 3A4Z13)	
3A4L14		COIL, RADIO FREQUENCY: same as 3A4L7 (p/o 3A4Z18)	
3A4L15		COIL, RADIO FREQUENCY: same as 3A4L7 (p/o 3A4Z19)	
3A4L16		COIL, RADIO FREQUENCY: same as 3A4L7 (p/o 3A4Z20)	
3A4L17		COIL, RADIO FREQUENCY: same as 3A4L1 (p/o 3A4Z21)	
3A4L18		COIL, RADIO FREQUENCY: same as 3A4L7 (p/o 3A4Z22)	
3A4L19		COIL, RADIO FREQUENCY: same as 3A4L9 (p/o 3A4Z23)	
3A4L20		COIL, RADIO FREQUENCY: same as 3A4L11 (p/o 3A4Z24)	
3A4L21		COIL, RADIO FREQUENCY: universal wound, 3 pi, 216 total turns; 220 uh, 100 ma; mfr code 99800, part no. BS217	5-26
3A4L22		COIL, RADIO FREQUENCY: same as 3A4L21	5-26

ORIGINAL

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4L23		COIL, RADIO FREQUENCY: same as 3A4L21	5-26
3A4L24		COIL, RADIO FREQUENCY: same as 3A4L21	5-26
3A4L25		COIL, RADIO FREQUENCY: same as 3A4L21	
3A4L26		COIL, RADIO FREQUENCY: 14 to 28 mc frequency range (p/o 3A4Z26); mfr code 13499, part no. 543-2949-002	
3A4L27		COIL, RADIO FREQUENCY: same as 3A4L26 (p/o 3A4Z27)	
3A4L28		NOT USED	
3A4L29		COIL, RADIO FREQUENCY: same as 3A4L26 (p/o 3A4Z29)	
3A4L30		NOT USED	
3A4L31		NOT USED	
3A4L32		COIL, RADIO FREQUENCY: universal wound, 3 pi; no. 38 AWG, 1 mh, 60 ma; mfr code 99800, part no. BS222	5-20
3A4L33		COIL, RADIO FREQUENCY: same as 3A4L32	
3A4L34		COIL, RADIO FREQUENCY: same as 3A4L21	
3A4MP1		PULLEY, FLAT: c/o needle bearing and flat pulley; 0.593 in. od by 0.453 in. thk approx; mfr code 13499, part no. 543-2880-002	5-28
3A4MP2		PULLEY, FLAT: same as 3A4MP1	5-28
3A4MP3		PULLEY, FLAT: same as 3A4MP1	5-28
3A4MP4		PULLEY, FLAT: same as 3A4MP1	5-28
3A4MP5		PULLEY, FLAT: c/o needle bearing and flat pulley; 1.122 in. dia by 0.453 in. thk approx; mfr code 13499, part no. 543-2882-002	5-28
3A4MP6		PULLEY, FLAT: same as 3A4MP5	5-28
3A4MP7		SPRING, HELICAL EXTENSION: type 302 stainless steel; wire 0.050 in. dia; 5/16 in. od; 2-1/2 in. max spring tension; mfr code 13499, part no. 543-2888-002	5-28
3A4MP8		SPRING, HELICAL, EXTENSION: same as 3A4MP7	5-28
3A4MP9		SHAFT, SWITCH: glass bonded mica, 0.187 in. dia by 8.764 in. lg overall; mfr code 13499, part no. 543-2910-002	5-26
3A4MP10		SHAFT, DRIVE FLEXIBLE: steel, passivated; 12.311 in. lg by 1.095 in. dia approx; grooved and chamfered; mfr code 13499, part no. 543-2964-003	5-28
3A4MP11		COUPLING, SHAFT, RIGID: plastic; 0.500 in. dia, 0.700 in. lg o/a; mfr code 13499, part no. 548-1284-00	5-26
3A4MP12		BEARING, BALL, ANNULAR: single row, radial; 0.2500 in. id, 0.422 in. od, 0.125 in. lg; mfr code 40920, part no. S614FCHHP37L01	5-28
3A4MP13		BEARING, BALL, ANNULAR: same as 3A4MP12	5-28
3A4MP14		SPRING, LOCKING: type 302 stainless steel wire, 0.030 in. by 0.224 in. by 0.310 in.; mfr code 13499, part no. 502-6005-002	5-28
3A4P1		CONNECTOR, RECEPTACLE, ELECTRICAL: 15 rd male contacts, 1000 v ac and dc, 5 amps; straight; mfr code 71468, part no. DA15PA101	5-26
3A4P2		CONNECTOR, RECEPTACLE, ELECTRICAL: 37 male contacts; 5 amps; mfr code 91146, part no. DC37P10	5-26
3A4R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF102K	5-26
3A4R2		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF474K	5-26
3A4R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF121K	5-26
3A4R5		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF222K	5-26
3A4R6		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF102K	5-26
3A4R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF183K	5-26
3A4R8		RESISTOR, FIXED, COMPOSITION: same as 3A4R3	5-26
3A4R9		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF680K	5-26

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4R10		RESISTOR, FIXED, COMPOSITION: same as 3A4R3	5-26
3A4R11		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R12		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R13		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF470K	5-26
3A4R14		NOT USED	
3A4R15		RESISTOR, FIXED, COMPOSITION: same as 3A4R9	5-26
3A4R16		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF153K	5-26
3A4R17		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R18		RESISTOR, FIXED, COMPOSITION: same as 3A4R7	5-26
3A4R19		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF104K	5-26
3A4R20		RESISTOR, FIXED, COMPOSITION: same as 3A4R5	5-26
3A4R21		RESISTOR, FIXED, COMPOSITION: same as 3A4R19	5-26
3A4R22		RESISTOR, FIXED, COMPOSITION: same as 3A4R9	5-26
3A4R23		RESISTOR, FIXED, COMPOSITION: same as 3A4R3	5-26
3A4R24		RESISTOR, FIXED, COMPOSITION: same as 3A4R19	5-26
3A4R25		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R26		RESISTOR, FIXED, COMPOSITION: same as 3A4R7	5-26
3A4R27		RESISTOR, FIXED, COMPOSITION: same as 3A4R19	5-26
3A4R28		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF392K	5-26
3A4R29		RESISTOR, FIXED, COMPOSITION: same as 3A4R16	5-26
3A4R30		RESISTOR, FIXED, COMPOSITION: same as 3A4R9	5-26
3A4R31		RESISTOR, FIXED, COMPOSITION: same as 3A4R3	5-26
3A4R32		RESISTOR, FIXED, COMPOSITION: same as 3A4R19	5-26
3A4R33		RESISTOR, FIXED, COMPOSITION: same as 3A4R5	5-26
3A4R34		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF105K	5-26
3A4R35		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF393K	5-26
3A4R36		RESISTOR, FIXED, COMPOSITION: same as 3A4R29	5-26
3A4R37		RESISTOR, FIXED, COMPOSITION: same as 3A4R3	5-26
3A4R38		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF271K	5-26
3A4R39		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF332K	5-26
3A4R40		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R41		NOT USED	
thru			
3A4R54			
3A4R55		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF223K	5-26
3A4R56		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R57		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF100K	5-26
3A4R58		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF392K	5-26
3A4R59		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF820K	5-26
3A4R60		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF335K	5-26
3A4R61		NOT USED	
3A4R62		RESISTOR, FIXED, COMPOSITION: same as 3A4R9	5-26
3A4R63		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF470K	5-26
3A4R64		NOT USED	
3A4R65		RESISTOR, FIXED, COMPOSITION: same as 3A4R16	
3A4R66		NOT USED	
3A4R67		RESISTOR, FIXED, WIREWOUND: 4000 ohms $\pm 5\%$ , 16 w; mfr code 00213, part no. CSR7W4000-5	
3A4S1		SWITCH SECTION, ROTARY: 4 moving and 9 fixed contacts (incl 3A4S16); mfr code 13499, part no. 543-2920-002	5-26

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4S2		SWITCH SECTION, ROTARY: 2 moving and 7 fixed contacts; incl capacitor; mfr code 13499, part no. 543-2933-002	5-26
3A4S3		SWITCH SECTION, ROTARY: p/o 3A4S2, fabricated	5-26
3A4S4		SWITCH SECTION, ROTARY: 4 moving and 7 fixed contacts (incl 3A4S5); mfr code 13499, part no. 543-2866-002	5-26
3A4S5		SWITCH SECTION, ROTARY: p/o 3A4S4, fabricated	5-26
3A4S6		SWITCH SECTION, ROTARY: 4 moving and 10 fixed contacts (incl 3A4S7); mfr code 13499, part no. 543-2865-002	5-26
3A4S7		SWITCH SECTION, ROTARY: p/o 3A4S6, fabricated	5-26
3A4S8		SWITCH SECTION, ROTARY: 1 moving and 5 fixed contacts; mfr code 13499, part no. 543-2864-002	5-26
3A4S9		SWITCH SECTION, ROTARY: 1 moving and 4 fixed contacts; mfr code 13499, part no. 543-2863-002	5-26
3A4S10		SWITCH SECTION, ROTARY: 4 moving and 10 fixed contacts (incl 3A4S11); mfr code 13499, part no. 543-2862-002	5-26
3A4S11		SWITCH SECTION, ROTARY: p/o 3A4S10, fabricated	5-26
3A4S12		SWITCH SECTION, ROTARY: 4 moving and 9 fixed contacts (incl 3A4S13); mfr code 13499, part no. 543-2868-002	5-26
3A4S13		SWITCH SECTION, ROTARY: p/o 3A4S12, fabricated	5-26
3A4S14		SWITCH SECTION, ROTARY: 3 moving and 4 fixed contacts; includes 2 capacitors and 1 resistor, mfr code 13499, part no. 543-2934-002	5-26
3A4S15		PLATE SWITCH: brass; 1/8 in. by 1-1/2 in. by 4-1/16 in.; mfr code 13499, part no. 543-9081-002	5-26
3A4S16		SWITCH SECTION, ROTARY: p/o 3A4S1, fabricated	5-26
3A4S17		SWITCH SECTION, ROTARY: p/o 3A4S14, fabricated	5-26
3A4T1		TRANSFORMER, INTERMEDIATE FREQUENCY: 300 kc frequency; interstage; incl mtg plate (incl 3A4T1A); mfr code 13499, part no. 543-2930-002	5-26 & 5-28
3A4T1A		TRANSFORMER, INTERMEDIATE FREQUENCY: 300 kc frequency; interstage (p/o 3A4T1); mfr code 81815, part no. X093-1	
3A4T2		TRANSFORMER, INTERMEDIATE FREQUENCY: 300 kc frequency; interstage; incl mtg plate (incl 3A4T2A); mfr code 13499, part no. 543-2929-002	5-26 & 5-28
3A4T2A		TRANSFORMER, INTERMEDIATE FREQUENCY: 300 kc frequency; interstage (p/o 3A4T2); mfr code 81815, part no. X092-2	
3A4T3		TRANSFORMER, INTERMEDIATE FREQUENCY: universal wound; 2 windings; 1.7 to 3.7 mc freq range (p/o 3A4Z14); mfr code 13499, part no. 543-2951-002	
3A4T4		COIL, RADIO FREQUENCY: same as 3A4L7 (p/o 3A4Z15)	
3A4T5		COIL, RADIO FREQUENCY: same as 3A4L9 (p/o 3A4Z16)	
3A4T6		COIL, RADIO FREQUENCY: same as 3A4L11 (p/o 3A4Z17)	
3A4T7		COIL, RADIO FREQUENCY: universal wound; 66 turns Litz wire; 2 to 4 mc freq range (p/o 3A4Z25); mfr code 13499, part no. 543-1753-002	
3A4T8		COIL, RADIO FREQUENCY: single layer wound; 27 turns no. 36 AWG; 6 to 12 mc freq range (p/o 3A4Z28); mfr code 13499, part no. 543-2948-002	
3A4T9		COIL, RADIO FREQUENCY: same as 3A4L26 (p/o 3A4Z30)	
3A4TB1		PRINTED CIRCUIT BOARD: plastic; incl 11 tubelets; mfr code 13499, part no. 543-2953-003	5-26
3A4V1		ELECTRON TUBE: glass envelope; double triode type; mfr code 89185, part no. 5814A (p/o 3A4V1A and 3A4V1B)	5-28



TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4V2		ELECTRON TUBE: glass envelope; pentode type; mfr code 89185, part no. 5749	5-28
3A4V3		ELECTRON TUBE: same as 3A4V1 (p/o 3A4V3A and V3B)	5-28
3A4V4		ELECTRON TUBE: same as 3A4V2	5-28
3A4V5		ELECTRON TUBE: same as 3A4V2	5-28
3A4V6		ELECTRON TUBE: power pentode type; mfr code 24446, part no. 6CL6	5-28
3A4V7		ELECTRON TUBE: same as 3A4V2	5-28
3A4V8		ELECTRON TUBE: same as 3A4V2	5-28
3A4V9		ELECTRON TUBE: glass envelope; pentode type; mfr code 89185, part no. 5654	5-28
3A4V10		ELECTRON TUBE: same as 3A4V2	5-5
3A4XV1		SOCKET, ELECTRON TUBE: 9 pin miniature; mfr code 94991, part no. 8000-0315	5-28
3A4XV2		SOCKET, ELECTRON TUBE: 7 pin miniature, top mtg; 500 v ac rms, 1 amp; mfr code 94991, part no. 8000-0316	5-28
3A4XV3		SOCKET, ELECTRON TUBE: same as 3A4XV1	5-28
3A4XV4		SOCKET, ELECTRON TUBE: same as 3A4XV2	5-28
3A4XV5		SOCKET, ELECTRON TUBE: same as 3A4XV2	5-28
3A4XV6		SOCKET, ELECTRON TUBE: same as 3A4XV1	5-28
3A4XV7		SOCKET, ELECTRON TUBE: same as 3A4XV2	5-28
3A4XV8		SOCKET, ELECTRON TUBE: same as 3A4XV2	5-28
3A4XV9		SOCKET, ELECTRON TUBE: same as 3A4XV2	5-28
3A4XV10		SOCKET, ELECTRON TUBE: same as 3A4XV2	5-28
3A4Z1		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C2, C3, L1); mfr code 13499, part no. 543-2978-003	5-28
3A4Z2		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C6, C7, J2, L2); mfr code 13499, part no. 543-2979-003	5-28
3A4Z3		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C9, C10, L3); mfr code 13499, part no. 543-2980-003	5-28
3A4Z4		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C14, C16, L4); mfr code 13499, part no. 543-2981-003	5-28
3A4Z5		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C18, C19, J4, L5); mfr code 13499, part no. 543-2982-003	5-28
3A4Z6		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C20, C22, C24, L6); mfr code 13499, part no. 543-2983-003	5-28
3A4Z7		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C28, C29, L7); mfr code 13499, part no. 543-2984-003	5-28
3A4Z8		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C30, C31, L8); mfr code 13499, part no. 543-2985-003	5-28
3A4Z9		TUNING UNIT, RADIO FREQUENCY: 7.7 to 15.7 mc freq range (incl 3A4C33, C34, L9); mfr code 13499, part no. 543-2986-003	5-28
3A4Z10		TUNING UNIT, RADIO FREQUENCY: 7.7 to 15.7 mc freq range (incl 3A4C35, C36, L10); mfr code 13499, part no. 543-2987-003	5-28
3A4Z11		TUNING UNIT, RADIO FREQUENCY: 15.7 to 31.7 mc freq range (incl 3A4C9, L11); mfr code 13499, part no. 543-2988-003	5-28
3A4Z12		TUNING UNIT, RADIO FREQUENCY: 15.7 to 31.7 mc freq range (incl 3A4C40, C41, L12); mfr code 13499, part no. 543-2989-003	5-28
3A4Z13		TUNING UNIT, RADIO FREQUENCY: 15.7 to 31.7 mc freq range (incl 3A4C42, C43, L13); mfr code 13499, part no. 543-2990-003	5-28

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4Z14		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C49, C50, C51, T3); mfr code 13499, part no. 543-2991-003	5-28
3A4Z15		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C52, C53, C54, T4); mfr code 13499, part no. 543-2992-003	5-28
3A4Z16		TUNING UNIT, RADIO FREQUENCY: 7.7 to 15.7 mc freq range (incl 3A4C55, C56, C57, T5); mfr code 13499, part no. 543-2993-003	5-28
3A4Z17		TUNING UNIT, RADIO FREQUENCY: 15.7 to 31.7 mc freq range (incl 3A4C58, C59, C60, T6); mfr code 13499, part no. 543-2994-003	5-28
3A4Z18		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C64, C65, L14); mfr code 13499, part no. 544-2765-003	5-28
3A4Z19		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C68, C69, L15); mfr code 13499, part no. 544-2766-003	5-28
3A4Z20		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C71, C72, C73, L16); mfr code 13499, part no. 544-2767-003	5-28
3A4Z21		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C77, C78, C79, L17); mfr code 13499, part no. 543-2998-003	5-28
3A4Z22		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C80, C81, C82, C83, L18); mfr code 13499, part no. 543-2999-003	5-28
3A4Z23		TUNING UNIT, RADIO FREQUENCY: 7.7 to 15.7 mc freq range (incl 3A4C84, C85, C86, L19); mfr code 13499, part no. 543-3000-003	5-28
3A4Z24		TUNING UNIT, RADIO FREQUENCY: 15.7 to 31.7 mc freq range (incl 3A4C87, C88, C89, L20); mfr code 13499, part no. 543-3001-003	5-28
3A4Z25		TUNING UNIT, RADIO FREQUENCY: 2 to 4 mc freq range (incl 3A4C118, C119, C120, T7); mfr code 13499, part no. 543-3002-003	5-28
3A4Z26		TUNING UNIT, RADIO FREQUENCY: 14 to 28 mc freq range (incl 3A4C125, C126, C127, C128, L6); mfr code 13499, part no. 543-3003-003	5-28
3A4Z27		TUNING UNIT, RADIO FREQUENCY: 14 to 28 mc freq range (incl 3A4C129, C130, C131, L27); mfr code 13499, part no. 543-3004-003	5-28
3A4Z28		TUNING UNIT, RADIO FREQUENCY: 6 to 12 mc freq range (incl 3A4C137, C138, C176, T8); mfr code 13499, part no. 543-3005-003	5-28
3A4Z29		TUNING UNIT, RADIO FREQUENCY: 14 to 28 mc freq range (incl 3A4C140, C141, L29); mfr code 13499, part no. 543-3006-003	5-28
3A4Z30		TUNING UNIT, RADIO FREQUENCY: 14 to 28 mc freq range (incl 3A4C148, C149, T9); mfr code 13499, part no. 543-3007-003	5-28
3A4		CONVERTER-OSCILLATOR CV-731/URC, R-F TUNER: Model B; 130 v dc, 6.3 v ac, 28 v dc, -90 v dc, 250 v dc operating voltage; 2 to 4 mc and 300 kc input frequencies, 2 to 30 mc output frequencies; mfr code 13499, part no. 546-2148-005	
3A4B1		MOTOR, DIRECT CURRENT: permanent magnet; 27.5 v dc, 0.120 amp; mfr code 89321, part no. 2643-2	5-26
3A4C1		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 10,000 uuf +100% -20%, 500 v dc; mfr code 71590, part no. DA049-123B	5-27
3A4C2		CAPACITOR, FIXED, MICA DIELECTRIC: 130 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z1); mfr code 14655, part no. 22H5T13EG	
3A4C3		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 8.0 to 75.0 uuf, 350 v dc (p/o 3A4Z1); mfr code 72982, part no. 3188003	
3A4C4		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C5		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 4 uuf $\pm 1/2$ uuf, 500 v dc; mfr code 72982, part no. 331026COH0409D	5-27

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4C6		CAPACITOR, FIXED, MICA DIELECTRIC: 150 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z2); mfr code 14655, part no. 22H5T15EG	
3A4C7		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 8 to 75 uuf, 350 v dc (p/o 3A4Z2); mfr code 72982, part no. 3172000U2PO34R	
3A4C8		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C5	5-27
3A4C9		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C2 (p/o 3A4Z3)	
3A4C10		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C3 (p/o 3A4Z3)	
3A4C11		CAPACITOR, FIXED, MICA DIELECTRIC: 100 uuf $\pm 10\%$ , 500 v dc; mfr code 72136, part no. VCM15E101K	5-27
3A4C12		CAPACITOR, FIXED, MICA DIELECTRIC: 43 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5Q43DG	5-27
3A4C13		CAPACITOR, FIXED, MICA DIELECTRIC: 20 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q2CU	5-27
3A4C14		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C2 (p/o 3A4Z14)	
3A4C15		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C5	5-27
3A4C16		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C3 (p/o 3A4Z4)	
3A4C17		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C18		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C6 (p/o 3A4Z5)	
3A4C19		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C7 (p/o 3A4Z5)	
3A4C20		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 75 uuf $\pm 5\%$ , 500 v dc; w/no. 9841 durez dip added (p/o 3A4Z6); mfr code 72982, part no. 338023S2HO750J	
3A4C21		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C5	5-27
3A4C22		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 36 uuf $\pm 5\%$ , 500 v dc, w/no. 9841 durez dip added (p/o 3A4Z6); mfr code 72982, part no. 338026COHO360J	
3A4C23		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C24		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C3 (p/o 3A4Z6)	
3A4C25		CAPACITOR, FIXED, MICA DIELECTRIC: 36 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5Q36DG	5-27
3A4C26		CAPACITOR, FIXED, MICA DIELECTRIC: 300 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T3EG	5-27
3A4C27		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 3.0 uuf $\pm 1/2$ uuf, 500 v dc; mfr code 72982, part no. 331026COJO309J	5-27
3A4C28		CAPACITOR, FIXED, MICA DIELECTRIC: 56 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z7); mfr code 14655, part no. 22H5Q56EG	
3A4C29		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 5.0 to 37.5 uuf; 350 v dc (p/o 3A4Z7); mfr code 72982, part no. 3188002	
3A4C30		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 56 uuf $\pm 5\%$ , 500 v dc (p/o 3A4Z8); mfr code 72982, part no. 338026R2HO560J	
3A4C31		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z8)	
3A4C32		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1 uuf $\pm 1/4$ uuf, 500 v dc; mfr code 72982, part no. 331026COKO109C	5-27
3A4C33		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C12 (p/o 3A4Z9)	
3A4C34		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z9)	

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4C35		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 39 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z10); mfr code 72982, part no. 338026R2HO390G	
3A4C36		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z10)	
3A4C37		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C32	5-27
3A4C38		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C32	5-27
3A4C39		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 3 to 18 uuf, 350 v dc (p/o 3A4Z11); mfr code 72982, part no. 3188001	
3A4C40		CAPACITOR, FIXED, MICA DIELECTRIC: 30 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z12); mfr code 14655, part no. 22H5Q3DG	
3A4C41		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39 (p/o 3A4Z12)	
3A4C42		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 5 uuf $\pm 1/2$ uuf, 500 v dc (p/o 3A4Z13); mfr code 72982, part no. 331026S2HO509D	
3A4C43		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39 (p/o 3A4Z13)	
3A4C44		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C45		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C46		CAPACITOR, FIXED, MICA DIELECTRIC: 12 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q12CJ	5-27
3A4C47		CAPACITOR, FIXED, CERAMIC, DIELECTRIC: same as 3A4C1	5-27
3A4C48		CAPACITOR, FIXED, MICA DIELECTRIC: 22 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q22CJ	5-27
3A4C49		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C6 (p/o 3A4Z14)	
3A4C50		CAPACITOR, FIXED, MICA DIELECTRIC: 680 uuf $\pm 2\%$ , 500 v dc; mfr code 72136, part no. DM20F681G500WV	
3A4C51		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C3 (p/o 3A4Z14)	
3A4C52		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 62 uuf $\pm 5\%$ , 500 v dc (p/o 3A4Z15); mfr code 72982, part no. 338023S2H0620J	
3A4C53		CAPACITOR, FIXED, MICA DIELECTRIC: 330 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z15); mfr code 14655, part no. 22H5T33EG	
3A4C54		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z15)	
3A4C55		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 43 uuf $\pm 5\%$ , 500 v dc (p/o 3A4Z16); mfr code 72982, part no. 338023P2H0430J	
3A4C56		CAPACITOR, FIXED, MICA DIELECTRIC: 220 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z16); mfr code 14655, part no. 22H5T22EG	
3A4C57		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z16)	
3A4C58		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C42 (p/o 3A4Z17)	
3A4C59		CAPACITOR, FIXED, MICA DIELECTRIC: 24 uuf $\pm 5\%$ , 500 v dc (p/o 3A4Z17); mfr code 14655, part no. 22H5Q24CJ	
3A4C60		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39 (p/o 3A4Z17)	
3A4C61		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C62		CAPACITOR, FIXED, MICA DIELECTRIC: 10 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q1CJ	5-27
3A4C63		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4C64		CAPACITOR, FIXED, MICA DIELECTRIC: 62 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z18); mfr code 14655, part no. 22H5Q68EG	
3A4C65		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z18)	
3A4C66		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1.5 uuf $\pm 1/4$ uuf, 500 v dc; mfr code 72982, part no. 331026C0K0159C	5-27
3A4C67		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1000 uuf -0% +100% at room temp, 500 v dc; mfr code 71590, part no. 913-1476-00	5-27
3A4C68		CAPACITOR, FIXED, MICA DIELECTRIC: 82 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z19); mfr code 14655, part no. 22H5Q75EG	
3A4C69		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z19)	
3A4C70		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C66	5-27
3A4C71		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z20)	
3A4C72		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C2 (p/o 3A4Z20)	
3A4C73		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C2 (p/o 3A4Z20)	
3A4C74		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 2\%$ , 100 v dc; mfr code 56289, part no. P79551	5-27
3A4C75		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 400 v dc; mfr code 56289, part no. 186P10404S15	5-27
3A4C76		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A4C75	5-27
3A4C77		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C3 (p/o 3A4Z21)	
3A4C78		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C6 (p/o 3A4Z21)	
3A4C79		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C50 (p/o 3A4Z21)	
3A4C80		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z22)	
3A4C81		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C68 (p/o 3A4Z22)	
3A4C82		CAPACITOR, FIXED, MICA DIELECTRIC: 470 uuf $\pm 2\%$ , 300 v dc (p/o 3A4Z22); mfr code 14655, part no. 22H5T47EG	
3A4C83		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C50 (p/o 3A4Z22)	
3A4C84		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C29 (p/o 3A4Z23)	
3A4C85		CAPACITOR, FIXED, MICA DIELECTRIC: 51 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z23); mfr code 14655, part no. 22H5Q51EG	
3A4C86		CAPACITOR, FIXED, MICA DIELECTRIC: 430 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z23); mfr code 14655, part no. 22H5T43EG	
3A4C87		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39 (p/o 3A4Z24)	
3A4C88		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C46 (p/o 3A4Z24)	
3A4C89		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C56 (p/o 3A4Z24)	
3A4C90		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C91		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 8 to 50 uuf, 350 v dc (p/o 3A4Z27); mfr code 72982, part no. 317300U2P034R	
3A4C92		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C93		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C25	5-27
3A4C94		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C13	5-27
3A4C95		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C96		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4C97		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C98		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C99		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C100		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C101		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C102		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C103		NOT USED	
3A4C104		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C105		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C106		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C107		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C108		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C109		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1000 uuf +100 -20%, 500 v dc; mfr code 71590, part no. BB61-102TW6X	5-27
3A4C110		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C111		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C112		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C113		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C114		NOT USED	
3A4C115		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C116		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C117		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C118		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C50 (p/o 3A4Z25)	
3A4C119		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C53 (p/o 3A4Z25)	
3A4C120		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C3 (p/o 3A4Z25)	
3A4C121		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C2	5-27
3A4C122		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C123		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C124		NOT USED	
3A4C125		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39 (p/o 3A4Z26)	
3A4C126		CAPACITOR, FIXED, MICA DIELECTRIC: 510 uuf $\pm 2\%$ , 300 v dc (p/o 3A4Z26); mfr code 14655, part no. 22H5T51EG	
3A4C127		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 27 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z26); mfr code 72982, part no. 331023R2H0270G	
3A4C128		NOT USED	
3A4C129		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 3 to 12 uuf, 350 v dc (p/o 3A4Z27); mfr code 72982, part no. 3171000C0P017R	
3A4C130		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 20 uuf $\pm 5\%$ , 500 v dc (p/o 3A4Z27); mfr code 72982, part no. 331026S2H0200J	
3A4C131		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C49 (p/o 3A4Z27)	
3A4C132		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C133		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C134		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C135		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C136		NOT USED	
3A4C137		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 68 uuf $\pm 2\%$ , 500 v dc (p/o 3A4Z28); mfr code 72982, part no. 338026R2H0680G	

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4C138		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 5 to 25 uuf, 350 v dc (p/o 3A4Z28); mfr code 72982, part no. 317100C0P039R	
3A4C139		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 2 uuf $\pm 1/4$ uuf, 500 v dc; mfr code 72982, part no. 331026C0K0209C	5-27
3A4C140		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 24 uuf $\pm 5\%$ , 500 v dc; w/no. 9841 durez dip added (p/o 3A4Z29); mfr code 72982, part no. 331023R2H0240J	
3A4C141		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39 (p/o 3A4Z29)	
3A4C142		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C143		NOT USED	
3A4C144		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C139	5-27
3A4C145		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 2 uuf $\pm 1/2$ uuf, 500 v dc; mfr code 72982, part no. 331026C0K0209D	5-27
3A4C146		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1.5 uuf $\pm 1/2$ uuf, 500 v dc; mfr code 72982, part no. 331026C0K0159D	5-27
3A4C147		NOT USED	
3A4C148		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C25 (p/o 3A4Z30)	
3A4C149		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C39	
3A4C150		NOT USED	
3A4C151		NOT USED	
3A4C152		NOT USED	
3A4C153		NOT USED	
3A4C154		NOT USED	
3A4C155		NOT USED	
3A4C156		NOT USED	
3A4C157		NOT USED	
3A4C158		NOT USED	
3A4C159		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C160		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C161		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C162		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C163		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C164		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C165		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C166		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C167		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C168		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C169		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C170		NOT USED	
3A4C171		CAPACITOR, FIXED, MICA DIELECTRIC: 240 uuf $\pm 10\%$ , 500 v dc; mfr code 72136, part no. VCM15E241K	5-26
3A4C172		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C173		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C174		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C175		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C67	5-27
3A4C176		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A4C91 (p/o 3A4Z28)	
3A4C177		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C53	5-27
3A4C178		CAPACITOR, FIXED, MICA DIELECTRIC: 390 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T39EG	5-27

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4C179		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	5-27
3A4C180		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C2	5-27
3A4C181		NOT USED	
3A4C182		NOT USED	
3A4C183		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A4C1	
3A4C184		CAPACITOR, FIXED, MICA DIELECTRIC: 5 uuf $\pm 10\%$ , 500 v dc; mfr code 14655, part no. 22H5V5CK	
3A4C185		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C13	
3A4C186		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A4C25	
3A4CR1		SEMICONDUCTOR DEVICE, DIODE: germanium; mfr code 73293, part no. HD2123	5-26
3A4CR2		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 73293, part no. 1N457	
3A4CR3		SEMICONDUCTOR DEVICE, DIODE: same as 3A4CR2	
3A4E1		SHIELD, ELECTRON TUBE: 9 pin medium; brass; incl copper insert; mfr code 13499, part no. 541-6554-003	5-29
3A4E2		SHIELD, ELECTRON TUBE: 7 pin miniature; brass; incl copper insert; mfr code 13499, part no. 541-6551-003	5-29
3A4E3		SHIELD, ELECTRON TUBE: same as 3A4E1	5-29
3A4E4		SHIELD, ELECTRON TUBE: same as 3A4E2	5-29
3A4E5		SHIELD, ELECTRON TUBE: same as 3A4E2	5-29
3A4E6		SHIELD, ELECTRON TUBE: 9 pin noval; brass; incl copper insert; mfr code 13499, part no. 541-6555-003	5-29
3A4E7		SHIELD, ELECTRON TUBE: same as 3A4E2	5-29
3A4E8		SHIELD, ELECTRON TUBE: same as 3A4E2	5-29
3A4E9		SHIELD, ELECTRON TUBE: 7 pin miniature; brass; incl copper insert; mfr code 13499, part no. 541-6550-003	5-29
3A4E10		SHIELD, ELECTRON TUBE: same as 3A4E2	5-29
3A4E11		TERMINAL, FEEDTHRU, INSULATED: brass conductor, teflon insulation; mfr code 98291, part no. FTSM1	5-26
3A4E12		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E13		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E14		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E15		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E16		NOT USED	
3A4E17		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E18		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E19		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E20		TERMINAL, FEEDTHRU, INSULATED: same as 3A4E11	5-26
3A4E21		TERMINAL, STUD: tube pin type brass conductor; teflon insulation; mfr code 12615, part no. 2619	5-26
3A4E22		JACK, TIP: std phone tip contact element accommodated; plastic insulation; mfr code 98291, part no. SKT1	5-26
3A4E23		TERMINAL, STUD: brass conductor; 0.218 in. dia by 0.489 in. lg overall; mfr code 12615, part no. 1985	5-26
3A4E24		CORE, ADJUSTABLE TUNING: powdered iron; permeability, 0.5 to 32 mc freq range; mfr code 78488, part no. 57-802	5-29
3A4E25		TERMINAL, STUD: same as 3A4E21	
3A4E26		TERMINAL, STUD: same as 3A4E21	
3A4E27		TERMINAL, FEEDTHRU, INSULATED: brass hex, melamine, 2-56 NC-2, tap 5/64 in. deep, 13/32 in. lg; mfr code 92825, part no. 4D4A12	



TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4E28		CORE, ADJUSTABLE TUNING: ferrite core; 0.5 to 32 mc freq range; mfr code 95105, part no. 288-0030-00	5-29
3A4H1		NUT, SELF-LOCKING, HEXAGON: type 303 passivated steel; 4-40 NC-2B thd, 3/8 in. lg by 1/4 in. across hex; mfr code 13499, part no. 543-2887-002	5-29
3A4H2		NOT USED	
3A4H3		SCREW, EXTERNALLY RELIEVED BODY: passivated steel; 8/32 NC-2A thd; 4 in. lg; mfr code 13499, part no. 543-2922-002	5-26 & 5-29
3A4H4		SHIM: chromate dipped aluminum; 3/4 in. by 5/16 in. by 0.032 in.; mfr code 13499, part no. 543-2925-002	5-29
3A4J1		JACK, TIP: std phone tip contact element accommodated; teflon insulation; mfr code 98291, part no. SKT5BCWHITE	5-26 & 5-29
3A4J2		JACK, TIP: same as 3A4J1	5-26 & 5-29
3A4J3		JACK, TIP: same as 3A4J1	5-26 & 5-29
3A4J4		JACK, TIP: same as 3A4J1	5-26 & 5-29
3A4J5		JACK, TIP: same as 3A4J1	5-26 & 5-29
3A4J6		JACK, TIP: same as 3A4J1	5-26 & 5-29
3A4J7		JACK, TIP: same as 3A4J1	5-26 & 5-29
3A4J8		JACK, TIP: same as 3A4J1	5-26 & 5-29
3A4J9		JACK, TIP: same as 3A4J1	5-26 & 5-29
3A4J10		JACK, TIP: same as 3A4J1	5-26 & 5-29
3A4J11		JACK, TIP: same as 3A4J1	5-26 & 5-29
3A4J12		JACK, TIP: same as 3A4J1	5-26 & 5-29
3A4J13		JACK, TIP: same as 3A4J1	5-26 & 5-29

TABLE 6-2. (Continued)

CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4J14		JACK, TIP: same as 3A4J1	5-26 &
3A4J15		JACK, TIP: same as 3A4J1	5-29 5-26 &
3A4J16		JACK, TIP: same as 3A4J1	5-29
3A4K1		RELAY, ARMATURE: 2C; 30 v dc at 2 amps resistive; 1 inductive winding, 27.5 v dc, 450 ohms, 0.06 amp approx; mfr code 44038, part no. IR207508184	5-26
3A4K2		RELAY, ARMATURE: 2A, 1B; 28 v dc at 250 ma; 1 inductive winding, 26.5 v dc, 720 ohms, 0.03 amp approx; mfr code 04221, part no. 95-2943	5-29
3A4L1		COIL, RADIO FREQUENCY: universal wound; 1 winding of 66 turns; 1.7 to 3.7 mc frequency range (p/o 3A4Z1); mfr code 13499, part no. 545-9073-002	
3A4L2		COIL, RADIO FREQUENCY: same as 3A4L1 (p/o 3A4Z2)	
3A4L3		COIL, RADIO FREQUENCY: same as 3A4L1 (p/o 3A4Z3)	
3A4L4		COIL, RADIO FREQUENCY: same as 3A4L1 (p/o 3A4Z4)	
3A4L5		COIL, RADIO FREQUENCY: same as 3A4L1 (p/o 3A4Z5)	
3A4L6		COIL, RADIO FREQUENCY: same as 3A4L1 (p/o 3A4Z6)	
3A4L7		COIL, RADIO FREQUENCY: 3.7 to 7.7 mc frequency range (p/o 3A4Z7); mfr code 13499, part no. 543-2945-002	
3A4L8		COIL, RADIO FREQUENCY: same as 3A4L7 (p/o 3A4Z8)	
3A4L9		COIL, RADIO FREQUENCY: 7.7 to 15.7 mc frequency range (p/o 3A4Z9); mfr code 13499, part no. 543-2946-002	
3A4L10		COIL, RADIO FREQUENCY: same as 3A4L9 (p/o 3A4Z10)	
3A4L11		COIL, RADIO FREQUENCY: 15.7 to 31.7 mc frequency range (p/o 3A4Z11); mfr code 13499, part no. 543-2947-002	
3A4L12		COIL, RADIO FREQUENCY: same as 3A4L11 (p/o 3A4Z12)	
3A4L13		COIL, RADIO FREQUENCY: same as 3A4L11 (p/o 3A4Z13)	
3A4L14		COIL, RADIO FREQUENCY: same as 3A4L7 (p/o 3A4Z18)	
3A4L15		COIL, RADIO FREQUENCY: same as 3A4L17 (p/o 3A4Z19)	
3A4L16		COIL, RADIO FREQUENCY: same as 3P4L7 (p/o 3A4Z20)	
3A4L17		COIL, RADIO FREQUENCY: same as 3A4L1 (p/o 3A4Z21)	
3A4L18		COIL, RADIO FREQUENCY: same as 3A4L7 (p/o 3A4Z22)	
3A4L19		COIL, RADIO FREQUENCY: same as 3A4L9 (p/o 3A4Z23)	
3A4L20		COIL, RADIO FREQUENCY: same as 3A4L11 (p/o 3A4Z24)	
3A4L21		COIL, RADIO FREQUENCY: universal wound; 3 pi, 216 total turns; 220 uh, 100 ma; mfr code 99800, part no. BS217	5-26
3A4L22		COIL, RADIO FREQUENCY: same as 3A4L21	5-26
3A4L23		COIL, RADIO FREQUENCY: same as 3A4L21	5-26
3A4L24		COIL, RADIO FREQUENCY: same as 3A4L21	5-26
3A4L25		COIL, RADIO FREQUENCY: same as 3A4L21	
3A4L26		COIL, RADIO FREQUENCY: 14 to 28 mc frequency range (p/o 3A4Z26); mfr code 13499, part no. 543-2949-002	
3A4L27		COIL, RADIO FREQUENCY: same as 3A4L26 (p/o 3A4Z27)	
3A4L28		NOT USED	
3A4L29		COIL, RADIO FREQUENCY: same as 3A4L26 (p/o 3A4Z29)	
3A4L30		NOT USED	
3A4L31		NOT USED	
3A4L32		COIL, RADIO FREQUENCY: universal wound, 3 pi, no. 38 AWG; 1 mh, 60 ma; mfr code 99800, part no. BS222	

TABLE 6-2. (Continued)

CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4L33		COIL, RADIO FREQUENCY: same as 3A4L32	
3A4L34		COIL, RADIO FREQUENCY: single layer wound; magnet wire; 39 uh inductance, 2 ohms dc, 500 ma current; mfr code 99800, part no. DM0171	
3A4L35		NOT USED	
3A4L36		COIL, RADIO FREQUENCY: 1 winding, single layer wound; enamel or formvar magnet wire; 3.30 uh $\pm 10\%$ at 7.9 mc; 0.15 ohms dc; 1470 ma current; mfr code 82142, part no. 10102-110	
3A4L37		COIL, RADIO FREQUENCY: same as 3A4L34	
3A4MP1		PULLEY, FLAT: c/o needle bearing and flat pulley; 0.593 in. od by 0.453 in. thk approx; mfr code 13499, part no. 543-2880-002	5-29
3A4MP2		PULLEY, FLAT: same as 3A4MP1	5-29
3A4MP3		PULLEY, FLAT: same as 3A4MP1	5-29
3A4MP4		PULLEY, FLAT: same as 3A4MP1	5-29
3A4MP5		PULLEY, FLAT: c/o needle bearing and flat pulley; 1.122 in. dia by 0.453 in. thk approx; mfr code 13499, part no. 543-2882-002	5-29
3A4MP6		PULLEY, FLAT: same as 3A4MP5	5-29
3A4MP7		SPRING, HELICAL, EXTENSION: type 302 stainless steel; wire 0.050 in. dia; 5/16 in. od; 2-1/2 in. max spring extension; mfr code 13499, part no. 543-2888-002	
3A4MP8		SPRING, HELICAL, EXTENSION: same as 3A4MP7	5-29
3A4MP9		SHAFT, SWITCH: glass bonded mica; 0.187 in. dia by 8.764 in. lg overall; mfr code 13499, part no. 543-2910-002	5-29
3A4MP10		SHAFT, DRIVE, FLEXIBLE: steel passivated; 12.311 in. lg by 1.095 in. dia approx; grooved and chamfered; mfr code 13499, part no. 543-2964-003	5-29
3A4MP11		COUPLING, SHAFT, RIGID: plastic; 0.500 in. dia, 0.700 in. lg o/a; mfr code 13499, part no. 548-1284-002	5-26
3A4MP12		BEARING, BALL, ANNULAR: single row, radial; 0.422 in. od, 0.250 in. id, 0.125 in. lg; mfr code 40920, part no. S614FCHHP37L01	5-29
3A4MP13		BEARING, BALL, ANNULAR: same as 3A4MP12	5-29
3A4MP14		SPRING, LOCKING: type 302 stainless steel wire; 0.030 in. dia; 0.030 in. by 0.224 in. by 0.310 in.; mfr code 13499, part no. 502-6005-002	5-29
3A4P1		CONNECTOR, RECEPTACLE, ELECTRICAL: 15 rd male contacts, 1000 v ac and dc, 5 amps; straight; mfr code 71468, part no. DA15PA101	5-26
3A4P2		CONNECTOR, RECEPTACLE, ELECTRICAL: 37 male contacts; 5 amps; mfr code 91146, part no. DC37P10	5-26
3A4R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF102K	5-26
3A4R2		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF474K	5-26
3A4R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF121K	5-26
3A4R5		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF222K	5-26
3A4R6		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF102K	5-26
3A4R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF183K	5-26
3A4R8		RESISTOR, FIXED, COMPOSITION: same as 3A4R3	5-26
3A4R9		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF680K	5-26
3A4R10		RESISTOR, FIXED, COMPOSITION: same as 3A4R3	5-26
3A4R11		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R12		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R13		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF470K	5-26
3A4R14		NOT USED	
3A4R15		RESISTOR, FIXED, COMPOSITION: same as 3A4R9	5-26

TABLE 6-2. (Continued)

CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4R16		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF153K	5-26
3A4R17		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R18		RESISTOR, FIXED, COMPOSITION: same as 3A4R7	5-26
3A4R19		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF104K	5-26
3A4R20		RESISTOR, FIXED, COMPOSITION: same as 3A4R5	5-26
3A4R21		RESISTOR, FIXED, COMPOSITION: same as 3A4R19	5-26
3A4R22		RESISTOR, FIXED, COMPOSITION: same as 3A4R9	5-26
3A4R23		RESISTOR, FIXED, COMPOSITION: same as 3A4R3	5-26
3A4R24		RESISTOR, FIXED, COMPOSITION: same as 3A4R19	5-26
3A4R25		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R26		RESISTOR, FIXED, COMPOSITION: same as 3A4R7	5-26
3A4R27		RESISTOR, FIXED, COMPOSITION: same as 3A4R19	5-26
3A4R28		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF392K	5-26
3A4R29		RESISTOR, FIXED, COMPOSITION: same as 3A4R16	5-26
3A4R30		RESISTOR, FIXED, COMPOSITION: same as 3A4R9	5-26
3A4R31		RESISTOR, FIXED, COMPOSITION: same as 3A4R3	5-26
3A4R32		RESISTOR, FIXED, COMPOSITION: same as 3A4R19	5-26
3A4R33		RESISTOR, FIXED, COMPOSITION: same as 3A4R5	5-26
3A4R34		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF105K	5-26
3A4R35		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF154K	5-26
3A4R36		RESISTOR, FIXED, COMPOSITION: same as 3A4R29	5-26
3A4R37		RESISTOR, FIXED, COMPOSITION: same as 3A4R3	5-26
3A4R38		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF271K	5-26
3A4R39		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF332K	5-26
3A4R40		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R41		NOT USED	
3A4R42		NOT USED	
3A4R43		NOT USED	
3A4R44		NOT USED	
3A4R45		NOT USED	
3A4R46		NOT USED	
3A4R47		NOT USED	
3A4R48		NOT USED	
3A4R49		NOT USED	
3A4R50		NOT USED	
3A4R51		NOT USED	
3A4R52		NOT USED	
3A4R53		NOT USED	
3A4R54		NOT USED	
3A4R55		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF223K	5-26
3A4R56		RESISTOR, FIXED, COMPOSITION: same as 3A4R1	5-26
3A4R57		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF100K	5-26
3A4R58		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF392K	5-26
3A4R59		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF820K	5-26
3A4R60		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF335K	5-26
3A4R61		NOT USED	
3A4R62		RESISTOR, FIXED, COMPOSITION: same as 3A4R9	5-26
3A4R63		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF470K	5-26
3A4R64		NOT USED	
3A4R65		RESISTOR, FIXED, COMPOSITION: same as 3A4R16	

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4R66 3A4S1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF472K SWITCH SECTION, ROTARY: 4 moving and 9 fixed contacts (incl 3A4S16); mfr code 13499, part no. 543-2920-002	5-26
3A4S2		SWITCH SECTION, ROTARY: 2 moving and 7 fixed contacts (incl 3A4S3); mfr code 13499, part no. 543-2933-002	5-26
3A4S3		SWITCH SECTION, ROTARY: p/o 3A4S2, fabricated	5-26
3A4S4		SWITCH SECTION, ROTARY: 4 moving and 7 fixed contacts (incl 3A4S5); mfr code 13499, part no. 543-2866-002	5-26
3A4S5		SWITCH SECTION, ROTARY: p/o 3A4S4, fabricated	5-26
3A4S6		SWITCH SECTION, ROTARY: 4 moving and 10 fixed contacts (incl 3A4S7); mfr code 13499, part no. 543-2865-002	5-26
3A4S7		SWITCH SECTION, ROTARY: p/o 3A4S6, fabricated	5-26
3A4S8		SWITCH SECTION, ROTARY: 1 moving and 5 fixed contacts; mfr code 13499, part no. 543-2864-002	5-26
3A4S9		SWITCH SECTION, ROTARY: 1 moving and 4 fixed contacts; mfr code 13499, part no. 543-2863-002	5-26
3A4S10		SWITCH SECTION, ROTARY: 4 moving and 10 fixed contacts (incl 3A4S11); mfr code 13499, part no. 543-2862-002	5-26
3A4S11		SWITCH SECTION, ROTARY: p/o 3A4S10, fabricated	5-26
3A4S12		SWITCH SECTION, ROTARY: 4 moving and 9 fixed contacts (incl 3A4S13); mfr code 13499, part no. 543-2868-002	5-26
3A4S13		SWITCH SECTION, ROTARY: p/o 3A4S12, fabricated	5-26
3A4S14		SWITCH SECTION, ROTARY: 3 moving and 4 fixed contacts (incl 3A4S17); mfr code 13499, part no. 543-2934-002	5-26
3A4S15		SWITCH SECTION, ROTARY: 1 moving and 4 fixed contacts, 3 eyelets; mfr code 13499, part no. 545-9071-002	5-26
3A4S16		SWITCH SECTION, ROTARY: p/o 3A4S1, fabricated	5-26
3A4S17		SWITCH SECTION, ROTARY: p/o 3A4S14, fabricated	5-26
3A4T1		TRANSFORMER, INTERMEDIATE FREQUENCY: 300 kc freq; interstage; incl mtg plate (incl 3A4T1A); mfr code 13499, part no. 543-2930-002	5-26 & 5-29
3A4T1A		TRANSFORMER, INTERMEDIATE FREQUENCY: 300 kc frequency; interstage (p/o 3A4T1); mfr code 81815, part no. X093-1	
3A4T2		TRANSFORMER, INTERMEDIATE FREQUENCY: 300 kc freq; interstage; incl mtg plate (incl 3A4T2A); mfr code 13499, part no. 543-2929-002	5-26 & 5-29
3A4T2A		TRANSFORMER, INTERMEDIATE FREQUENCY: 300 kc freq; interstage (p/o 3A4T2); mfr code 81815, part no. X092-2	
3A4T3		TRANSFORMER, INTERMEDIATE FREQUENCY: universal wound; 1 winding of 66 turns; 1 winding of 4 turns, 1.7 to 3.7 mc freq range (p/o 3A4Z14); mfr code 13499, part no. 545-9073-002	
3A4T4		COIL, RADIO FREQUENCY: 3.7 to 7.7 mc freq range; mfr code 13499, part no. 543-2945-002	
3A4T5		COIL, RADIO FREQUENCY: 7.7 to 15.7 mc freq range (p/o 3A4Z16); mfr code 13499, part no. 543-2946-002	
3A4T6		COIL, RADIO FREQUENCY: 15.7 to 31.7 mc freq range (p/o 3A4Z17); mfr code 13499, part no. 543-2947-002	
3A4T7		TRANSFORMER, INTERMEDIATE FREQUENCY: universal wound; 1 winding of 60 turns and 1 winding of 5 turns (p/o 3A4Z25); mfr code 13499, part no. 545-9072-002	

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4T8		COIL, RADIO FREQUENCY: single layer wound; 27 turns no. 36 AWG; 6 to 12 mc freq range (p/o 3A4Z28); mfr code 13499, part no. 543-2948-002	
3A4T9		COIL, RADIO FREQUENCY: 14 to 28 mc freq range; mfr code 13499, part no. 543-2949-002	
3A4TB1		PRINTED CIRCUIT BOARD: plastic; incl 11 tubelets; mfr code 13499, part no. 543-2953-003	5-26
3A4V1		ELECTRON TUBE: glass envelope; double triode type (p/o 3A4V1A and V1B); mfr code 89185, part no. 5814A	5-29
3A4V2		ELECTRON TUBE: glass envelope; pentode type; mfr code 89185, part no. 5749	5-29
3A4V3		ELECTRON TUBE: same as 3A4V1 (p/o 3A4V3A and V3B)	5-29
eA4V4		ELECTRON TUBE: same as 3A4V2	5-29
3A4V5		ELECTRON TUBE: same as 3A4V2	5-29
3A4V6		ELECTRON TUBE: power pentode; mfr code 24446, part no. 6CL6	5-29
3A4V7		ELECTRON TUBE: same as 3A4V2	5-29
3A4V8		ELECTRON TUBE: same as 3A4V2	5-29
3A4V9		ELECTRON TUBE: glass envelope; pentode type; mfr code 89185, part no. 5654	
3A4V10		ELECTRON TUBE: same as 3A4V2	5-29
3A4XV1		SOCKET, ELECTRON TUBE: 9 pin miniature; top mtg; 500 v ac rms, 1 amp; mfr code 94991, part no. 8000-0315	5-29
3A4XV2		SOCKET, ELECTRON TUBE: 7 pin miniature; top mtg; 500 v ac rms, 1 amp; mfr code 94991, part no. 8000-0316	5-29
3A4XV3		SOCKET, ELECTRON TUBE: same as 3A4XV1	5-29
3A4XV4		SOCKET, ELECTRON TUBE: same as 3A4XV2	5-29
3A4XV5		SOCKET, ELECTRON TUBE: same as 3A4XV2	5-29
3A4XV6		SOCKET, ELECTRON TUBE: same as 3A4XV1	5-29
3A4XV7		SOCKET, ELECTRON TUBE: same as 3A4XV2	5-29
3A4XV8		SOCKET, ELECTRON TUBE: same as 3A4XV2	5-29
3A4XV9		SOCKET, ELECTRON TUBE: same as 3A4XV2	5-29
3A4XV10		SOCKET, ELECTRON TUBE: same as 3A4XV2	5-29
3A4Z1		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C2, C3, L1); mfr code 13499, part no. 545-9074-003	5-29
3A4Z2		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C6, C7, L2); mfr code 13499, part no. 545-9075-003	5-29
3A4Z3		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C9, C10, L3); mfr code 13499, part no. 545-9076-003	5-29
3A4Z4		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C14, C16, L4); mfr code 13499, part no. 545-9077-003	5-29
3A4Z5		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C18, C19, L5); mfr code 13499, part no. 545-9078-003	5-29
3A4Z6		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C20, C22, C24, L6); mfr code 13499, part no. 545-9079-003	5-29
3A4Z7		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C28, C29, L7); mfr code 13499, part no. 543-2984-003	5-29
3A4Z8		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C30, C31, L8); mfr code 13499, part no. 543-2985-003	5-29
3A4Z9		TUNING UNIT, RADIO FREQUENCY: 7.7 to 15.7 mc freq range (incl 3A4C33, C34, L9); mfr code 13499, part no. 543-2986-003	5-29
3A4Z10		TUNING UNIT, RADIO FREQUENCY: 7.7 to 15.7 mc freq range (incl 3A4C35, C36, L10); mfr code 13499, part no. 543-2987-003	5-29

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A4Z11		TUNING UNIT, RADIO FREQUENCY: 15.7 to 31.7 mc freq range (incl 3A4C39, L11); mfr code 13499, part no. 543-2988-003	5-29
3A4Z12		TUNING UNIT, RADIO FREQUENCY: 15.7 to 31.7 mc freq range (incl 3A4C40, C41, L12); mfr code 13499, part no. 543-2989-003	5-29
3A4Z13		TUNING UNIT, RADIO FREQUENCY: 15.7 to 31.7 mc freq range (incl 3A4C42, C43, L13); mfr code 13499, part no. 543-2990-003	5-29
3A4Z14		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C49, C50, C51, T3); mfr code 13499, part no. 545-9080-003	5-29
3A4Z15		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C52, C53, C54); mfr code 13499, part no. 545-9081-003	5-29
3A4Z16		TUNING UNIT, RADIO FREQUENCY: 7.7 to 15.7 mc freq range (incl 3A4C55, C56, C57, T5); mfr code 13499, part no. 543-2993-003	5-29
3A4Z17		TUNING UNIT, RADIO FREQUENCY: 15.7 to 31.7 mc freq range (incl 3A4C58, C59, C60, T6); mfr code 13499, part no. 543-2994-003	5-29
3A4Z18		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C64, C65, L14); mfr code 13499, part no. 544-2765-003	5-29
3A4Z19		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C68, C69, L15); mfr code 13499, part no. 544-2766-003	5-29
3A4Z20		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C71, C72, C73, L16); mfr code 13499, part no. 544-2767-003	5-29
3A4Z21		TUNING UNIT, RADIO FREQUENCY: 1.7 to 3.7 mc freq range (incl 3A4C77, C78, C79, L17); mfr code 13499, part no. 545-9082-003	5-29
3A4Z22		TUNING UNIT, RADIO FREQUENCY: 3.7 to 7.7 mc freq range (incl 3A4C80, C81, C82, C83); mfr code 13499, part no. 543-2999-003	5-29
3A4Z23		TUNING UNIT, RADIO FREQUENCY: 7.7 to 15.7 mc freq range (incl 3A4C84, C85, C86, L19); mfr code 13499, part no. 543-3000-003	5-29
3A4Z24		TUNING UNIT, RADIO FREQUENCY: 15.7 to 31.7 mc freq range (incl 3A4C87, C88, C89, L20); mfr code 13499, part no. 543-3001-003	5-29
3A4Z25		TUNING UNIT, RADIO FREQUENCY: 2 to 4 mc freq range (incl 3A4C118, C119, C120, T7); mfr code 13499, part no. 545-9083-003	5-29
3A4Z26		TUNING UNIT, RADIO FREQUENCY: 14 to 28 mc freq range (incl 3A4C125, C126, C128, L26); mfr code 13499, part no. 545-9084-003	5-29
3A4Z27		TUNING UNIT, RADIO FREQUENCY: 14 to 28 mc freq range (incl 3A4C129, C130, C131, L27); mfr code 13499, part no. 543-3004-003	5-29
3A4Z28		TUNING UNIT, RADIO FREQUENCY: 6 to 12 mc freq range (incl 3A4C137, C138, C176, T8); mfr code 13499, part no. 543-3005-003	5-29
3A4Z29		TUNING UNIT, RADIO FREQUENCY: 14 to 28 mc freq range (incl 3A4C140, C141, L29); mfr code 13499, part no. 543-3006-003	5-29
3A4Z30		TUNING UNIT, RADIO FREQUENCY: 14 to 28 mc freq range (incl 3A4C148); mfr code 13499, part no. 545-9085-003	5-29
3A5		CONVERTER-OSCILLATOR CV-731/URC, 100 KC REFERENCE OSCILLATOR: 100 kc frequency, 2.4 mc frequency output; 6.3 v ac, 60 cps +28 v dc, +130 v dc operating voltages; 2.937 in. by 4.427 in. by 4.846 in. o/a; mfr code 13499, part no. 542-7729-004	
3A5C1		CAPACITOR, FIXED, GLASS DIELECTRIC: 1000 uuf ±5%, 300 v dc; mfr code 95275, part no. CY17C102JAR	5-12
3A5C2		CAPACITOR, FIXED, PAPER DIELECTRIC: 47,000 uuf ±5%, 100 v dc; mfr code 56289, part no. 196P47351S4	5-20
3A5C3		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 82 uuf ±1%, 500 v dc; mfr code 00656, part no. EBB21325	5-12

TABLE 6-2. (Continued)

CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A5C4		CAPACITOR, FIXED, GLASS DIELECTRIC: same as 3A5C1	5-12
3A5C5		CAPACITOR, FIXED, GLASS DIELECTRIC: 680 uuf ±5%, 300 v dc; mfr code 95275, part no. CY17C681JAR	5-12
3A5C6		CAPACITOR, FIXED, MICA DIELECTRIC: 100 uuf ±2%, 500 v dc; mfr code 14655, part no. 22H5T1EG	5-12
3A5C7		CAPACITOR, FIXED, GLASS DIELECTRIC: same as 3A5C1	5-12
3A5C8		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A5C6	5-12
3A5C9		CAPACITOR, FIXED, MICA DIELECTRIC: 130 uuf ±2%, 500 v dc; mfr code 14655, part no. 22H5T13EG	5-12
3A5C10		CAPACITOR, FIXED, GLASS DIELECTRIC: same as 3A5C1	5-12
3A5C11		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 8 to 50 uuf, 350 v dc; mfr code 72982, part no. 557043U2P034R	5-12
3A5C12		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A5C6	5-12
3A5C13		CAPACITOR, FIXED, GLASS DIELECTRIC: same as 3A5C1	5-12
3A5C14		CAPACITOR, FIXED, GLASS DIELECTRIC: same as 3A5C1	5-12
3A5C15		CAPACITOR, FIXED, MICA DIELECTRIC: 200 uuf ±2%, 500 v dc; mfr code 14655, part no. 22H5T2EG	5-12
3A5C16		CAPACITOR, FIXED, GLASS DIELECTRIC: same as 3A5C1	5-12
3A5C17		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A5C1	5-12
3A5C18		CAPACITOR, FIXED, ELECTROLYTIC: 20 uuf +75% -15%, 24 v dc; mfr code 24446, part no. 29F490G4	5-20
3A5C19		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A5C18	5-20
*3A5C20		CAPACITOR, FIXED, MICA DIELECTRIC: 4700 uuf ±10%, 500 v dc; mfr code 72136, part no. DM30F472K	5-20
*3A5C20		CAPACITOR, FIXED, MICA DIELECTRIC: 5100 uuf ±10%, 500 v dc; mfr code 72136, part no. DM30F512K	
*3A5C20		CAPACITOR, FIXED, MICA DIELECTRIC: 5600 uuf ±10%, 500 v dc; mfr code 72136, part no. DM30F562K	
*3A5C20		CAPACITOR, FIXED, MICA DIELECTRIC: 6200 uuf ±10%, 500 v dc; mfr code 72136, part no. DM30F622K	
*3A5C20		CAPACITOR, FIXED, MICA DIELECTRIC: 6800 uuf ±10%, 500 v dc; mfr code 72136, part no. DM30F682K	
*3A5C20		CAPACITOR, FIXED, MICA DIELECTRIC: 7500 uuf ±10%, 500 v dc; mfr code 72136, part no. DM30F752K	
*3A5C20		CAPACITOR, FIXED, MICA DIELECTRIC: 8200 uuf ±10%, 500 v dc; mfr code 72136, part no. DM30F822K	
*3A5C20		CAPACITOR, FIXED, MICA DIELECTRIC: 9100 uuf ±10%, 500 v dc; mfr code 72136, part no. DM30F912K	
*3A5C20		CAPACITOR, FIXED, MICA DIELECTRIC: 10,000 uuf ±10%, 500 v dc; mfr code 72136, part no. DM30F103K	5-30
3A5C21		CAPACITOR, FIXED, ELECTROLYTIC: 50 uf +75% -15%, 50 v dc; mfr code 56289, part no. 112D506C7050J1	5-12
3A5C22		CAPACITOR, FIXED, PAPER DIELECTRIC: 10,000 uuf ±5%, 100 v dc; mfr code 56289, part no. 196P10351S4	5-12
3A5C23		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 3300 uuf ±20%, 100 v dc at 85°C, 50 v dc at 125°C; mfr code 96095, part no. MC80V332AM	5-12
3A5C24		CAPACITOR, FIXED, MICA DIELECTRIC: 30 uuf ±2%, 500 v dc; mfr code 14655, part no. 22H5G3DG	5-12
3A5C25		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A5C6	5-12
3A5C26		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A5C11	5-12

\*Chosen per operational requirements



TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A5C27		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 3A5C23	5-12
3A5C28		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A5C6	5-12
3A5C29		CAPACITOR, FIXED, GLASS DIELECTRIC: same as 3A5C5	5-12
3A5C30		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A5C11	5-12
3A5C31		CAPACITOR, FIXED, MICA DIELECTRIC: 47 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5Q47DG	5-12
3A5C32		CAPACITOR, FIXED, GLASS DIELECTRIC: same as 3A5C1	5-12
3A5C33		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A5C6	5-12
3A5C34		CAPACITOR, FIXED, GLASS DIELECTRIC: same as 3A5C5	5-12
3A5C35		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 3A5C22	5-12
3A5C36		CAPACITOR, FIXED, GLASS DIELECTRIC: same as 3A5C1	5-12
3A5C37		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.0082 uf $\pm 10\%$ , 100 v dc; mfr code 56289, part no. 196P82291S4	5-12
*3A5C38		CAPACITOR, FIXED, MICA DIELECTRIC: 300 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T3EG	5-12
*3A5C38		CAPACITOR, FIXED, MICA DIELECTRIC: 330 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T33EG	
*3A5C38		CAPACITOR, FIXED, MICA DIELECTRIC: 360 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T36EG	
*3A5C38		CAPACITOR, FIXED, MICA DIELECTRIC: 390 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T39EG	
*3A5C38		CAPACITOR, FIXED, MICA DIELECTRIC: 430 uuf $\pm 2\%$ , 300 v dc; mfr code 14655, part no. 22H5T43EG	
*3A5C38		CAPACITOR, FIXED, MICA DIELECTRIC: 470 uuf $\pm 2\%$ , 300 v dc; mfr code 14655, part no. 22H5T47EG	
*3A5C38		CAPACITOR, FIXED, MICA DIELECTRIC: 510 uuf $\pm 2\%$ , 300 v dc; mfr code 14655, part no. 22H5T51EG	
*3A5C38		CAPACITOR, FIXED, GLASS DIELECTRIC: 680 uuf $\pm 5\%$ , 300 v dc; mfr code 95275, part no. CY17C681JAR	
3A5CB1		SWITCH, THERMOSTATIC: spst; contacts open on temp increase; 60°C temp setting; bimetal element; 115 v ac at 2.5 amps; 28v dc at 2.5 amps; mfr code 73168, part no. 32400-0-140	5-24
3A5CR1		SEMICONDUCTOR DEVICE, DIODE: germanium; mfr code 24446, part no. 1N91	5-24
3A5CR2		SEMICONDUCTOR DEVICE, DIODE: same as 3A5CR1	
3A5CR3		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 07688, part no. 1N721A	
3A5E1		TERMINAL, FEEDTHRU, INSULATED: tube pin type brass conductor; teflon insulation; mfr code 98291, part no. FTSM1	5-20
3A5E2		TERMINAL, STUD: tube pin type brass conductor; teflon insulation; mfr code 12615, part no. 2619	5-20
3A5E3		TERMINAL, FEEDTHRU, INSULATED: same as 3A5E2	5-20
3A5E4		TERMINAL, FEEDTHRU, INSULATED: same as 3A5E2	5-20
3A5E5		TERMINAL, STUD: same as 3A5E2	5-20
3A5E6		TERMINAL, STUD: same as 3A5E2	5-20
3A5E7		TERMINAL, FEEDTHRU, INSULATED: same as 3A5E1	5-20
3A5E8		TERMINAL, STUD: same as 3A5E2	5-20
3A5E9		TERMINAL, FEEDTHRU, INSULATED: same as 3A5E1	5-20
3A5E10		TERMINAL, FEEDTHRU, INSULATED: same as 3A5E1	5-20
3A5E11		TERMINAL, STUD: same as 3A5E2	5-20
3A5E12		TERMINAL, STUD: same as 3A5E2	5-20
3A5E13		TERMINAL, STUD: same as 3A5E2	5-20

\*Chosen per operational requirements

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A5E14		TERMINAL, STUD: same as 3A5E2	5-20
3A5E15		PRINTED CIRCUIT BOARD: plastic board; incl 6 terminals and 154 tubelets; mfr code 13499, part no. 544-5648-00	5-12
3A5HR1		OVEN, CRYSTAL: 80°C ±2°C; 4 windings; 58 turns ea, 4 solder lug terminals (incl R9, R10, R11, R12, Y1); mfr code 13499, part no. 542-7288-002	5-20
3A5L1		COIL, RADIO FREQUENCY: universal pi wound; 40 turns 7 strand no. 44 AWG; 4 to 10 uh at 3.0 mc; mfr code 13499, part no. 542-7294-002	5-12
3A5L2		COIL, RADIO FREQUENCY: universal wound; 3 pi; 336 total turns; no. 36 AWG; 500 uh, 4.3 ohms, 100 ma; mfr code 90526, part no. 240-0073-00	5-12
3A5L3		COIL, RADIO FREQUENCY: same as 3A5L2	5-12
3A5L4		COIL, RADIO FREQUENCY: toroidal wound; 10 mh, 100 kc; mfr code 88063, part no. 76-0090-92	5-12
3A5L5		COIL, RADIO FREQUENCY: single layer wound magnet wire; 100 uh, 2.80 ohms max dc; 500 ma max; mfr code 82142, part no. 10404-34	5-12
3A5L6		COIL, RADIO FREQUENCY: universal wound; 3 pi; no. 38 AWG; 1 mh, 60 ma; mfr code 99800, part no. BS222	5-12
3A5L7		COIL, RADIO FREQUENCY: universal wound pi sections; no. 40 AWG; 2 mh, 100 uuf, 35 ma; mfr code 99800, part no. BS123	5-12
3A5P1		CONNECTOR, PLUG, ELECTRICAL: printed circuit plug feedthru, p/o 100-kc Ref Oscillator; built in	5-12
3A5Q1		TRANSISTOR: germanium; mfr code 49671, part no. 2N540	5-20
3A5Q2		TRANSISTOR: same as 3A5Q1	5-20
3A5Q3		TRANSISTOR: germanium; mfr code 07688, part no. 2N527	5-20
3A5Q4		TRANSISTOR: same as 3A5Q1	5-20
3A5Q5		TRANSISTOR: germanium; mfr code 07688, part no. 2N1753 (to be effective approx serial no. 550)	5-12
3A5Q6		TRANSISTOR: same as 3A5Q5	5-12
3A5Q7		TRANSISTOR: same as 3A5Q5	5-12
3A5Q8		TRANSISTOR: same as 3A5Q5	5-12
3A5Q9		TRANSISTOR: same as 3A5Q5	5-12
3A5Q10		TRANSISTOR: same as 3A5Q5	5-12
3A5Q11		TRANSISTOR: same as 3A5Q5	5-12
3A5Q12		TRANSISTOR: same as 3A5Q5	5-12
3A5Q13		TRANSISTOR: silicon; mfr code 96214, part no. 2N264	5-12
3A5R1		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF220K	5-20
3A5R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF101K	5-20
3A5R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF472K	5-20
3A5R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF682K	5-20
3A5R5		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF470K	5-20
3A5R6		RESISTOR, FIXED, WIREWOUND: 5 ohms ±5%, 2.5 w; mfr code 91637, part no. RSM2C5R000H	5-20
3A5R7		RESISTOR, FIXED, WIREWOUND: MIL type RW59V100	5-20
3A5R8		RESISTOR, FIXED, WIREWOUND: same as 3A5R7	5-20
3A5R9		RESISTOR: 47 ohms; p/o HR1, built in	5-20
3A5R10		RESISTOR: p/o HR1, built in; same as R9	5-20
3A5R11		RESISTOR: p/o HR1, built in; same as R9	5-20
3A5R12		RESISTOR: p/o HR1, built in; same as R9	5-20
3A5R13		RESISTOR, FIXED, COMPOSITION: same as 3A5R3	5-12
3A5R14		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF393K	5-12
3A5R15		RESISTOR, FIXED, COMPOSITION: same as 3A5R3	5-12

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A5R16		RESISTOR, FIXED, COMPOSITION: same as 3A5R14	5-12
3A5R17		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF102K	5-12
3A5R18		RESISTOR, FIXED, COMPOSITION: same as 3A5R3	5-12
3A5R19		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF104K	5-12
3A5R20		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-20
3A5R21		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF272K	5-20
3A5R22		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF562K	5-20
3A5R23		RESISTOR, FIXED, COMPOSITION: same as 3A5R3	5-12
3A5R24		RESISTOR, FIXED, COMPOSITION: same as 3A5R14	5-12
3A5R25		RESISTOR, FIXED, COMPOSITION: same as 3A5R17	5-12
3A5R26		RESISTOR, FIXED, COMPOSITION: same as 3A5R3	5-12
3A5R27		RESISTOR, FIXED, COMPOSITION: same as 3A5R19	5-12
3A5R28		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF472J	5-12
3A5R29		RESISTOR, FIXED, WIREWOUND: 7500 ohms $\pm 3\%$ , 5 w; mfr code 91637, part no. RSM5-75000G	5-12
3A5R30		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF102J	5-12
3A5R31		RESISTOR, FIXED, COMPOSITION: same as 3A5R3	5-12
3A5R32		RESISTOR, FIXED, COMPOSITION: same as 3A5R19	5-12
3A5R33		RESISTOR, FIXED, COMPOSITION: same as 3A5R3	5-12
3A5R34		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF224K	5-12
3A5R35		RESISTOR, FIXED, COMPOSITION: same as 3A5R3	5-12
3A5R36		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF183K	5-12
3A5R37		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF222K	5-12
3A5R38		RESISTOR, FIXED, COMPOSITION: same as 3A5R20	5-12
3A5R39		RESISTOR, FIXED, COMPOSITION: same as 3A5R17	5-12
3A5R40		RESISTOR, FIXED, COMPOSITION: same as 3A5R37	5-12
3A5T1		TRANSFORMER, AUDIO FREQUENCY: plate coupling type; 250 ohms, 80 ma dc, primary; 500 ohms, CT, secondary; 1 w max output; 5 kc frequency; mfr code 95088, part no. TS3700	5-20
3A5T2		TRANSFORMER, AUDIO FREQUENCY: input type; 25 v ac, 20 ma dc primary; 5 v ac, 10 ma dc secondary; 5 kc frequency; mfr code 88063, part no. 94-0532-00	5-20
3A5T3		TRANSFORMER, AUDIO FREQUENCY: plate coupling type; 125 ohms, CT, 100 ma dc primary; 50 ohms, TC, secondary; 10 w max output; 5 kc frequency; mfr code 95088, part no. TS3701	5-20
3A5Y1		CRYSTAL UNIT, QUARTZ: 1 plate, 3.000 kc (p/o 3A5HR1); mfr code 13499, part no. 290-5430-00	5-20
3A5Z1		REFERENCE SIGNAL GENERATOR SUBASSEMBLY: c/o 1 inductor, 9 transistors, 1 circuit board and hardware; mfr code 13499, part no. 544-5646-003	
3A5Z2		OVEN, CRYSTAL: 80°C $\pm 0.1^\circ\text{C}$ ; mfr code 13499, part no. 542-7288-002	
3A6		TUNING UNIT, RADIO FREQUENCY 0.1 KC: mfr code 13499, part no. 528-0397-00	
3A6C1		CAPACITOR, FIXED, ELECTROLYTIC: 1.0 uf $\pm 20\%$ , 35 v dc; mfr code 56289, part no. 150D105X0035A2	5-48
3A6C2		CAPACITOR, FIXED, ELECTROLYTIC: 4.7 uf $\pm 20\%$ , 35 v dc; mfr code 56289, part no. 150D475X0035B2	5-48
3A6C3		CAPACITOR, FIXED, MICA DIELECTRIC: 3,600 uuf $\pm 5\%$ , 300 v dc; mfr code 72136, part no. DM19F362J300WV	5-48
3A6C4		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 0.02 uf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. H1290	5-48
3A6C5		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A6C2	5-48

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A6C6		CAPACITOR, FIXED, MICA DIELECTRIC: 560 uuf $\pm 5\%$ , 500 v dc; mfr code 72136, part no. DM19E561J500WV	5-48
3A6C7		CAPACITOR, FIXED, MICA DIELECTRIC: 39 uuf $\pm 5\%$ , 500 v dc; mfr code 72136, part no. DM15E390J500WV	5-48
3A6C8		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A6C6	5-48
3A6C9		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A6C3	5-48
3A6C10		CAPACITOR, FIXED, MICA DIELECTRIC: 3,900 uuf $\pm 5\%$ , 300 v dc; mfr code 72136, part no. DM19F392J300WV	5-48
3A6C11		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A6C2	5-48
3A6C12		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A6C2	5-47
3A6C13		CAPACITOR, FIXED, MICA DIELECTRIC: 680 uuf $\pm 5\%$ , 500 v dc; mfr code 72136, part no. DM19F681J500WV	5-48
3A6C14		CAPACITOR, FIXED, MICA DIELECTRIC: 3,000 uuf $\pm 5\%$ , 500 v dc; mfr code 72136, part no. DM19F302J500WV	5-48
3A6C15		CAPACITOR, FIXED, MICA DIELECTRIC: 20 uuf $\pm 5\%$ , 500 v dc; mfr code 72136, part no. DM15C200J500WV	5-47
3A6C16		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A6C13	5-48
3A6C17		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A6C14	5-48
3A6C18		CAPACITOR, FIXED, MICA DIELECTRIC: 5100 uuf $\pm 2\%$ , 300 v dc; mfr code 72136, part no. DM19F512G300WV	5-47
3A6C19		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A6C13	5-47
3A6C20		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A6C15	5-47
3A6C21		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 5.0 uuf min to 37.5 uuf max, 35 v dc; mfr code 72982, part no. 557018C0P039R	5-48
3A6C22		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A6C21	5-48
3A6C23		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A6C21	5-48
3A6C24		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A6C21	5-48
3A6C25		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A6C21	5-48
3A6C26		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A6C21	5-48
3A6C27		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A6C21	5-48
3A6C28		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A6C21	5-48
3A6C29		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A6C21	5-48
3A6C30		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A6C21	5-48
3A6C31		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A6C6	5-48
3A6C32		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A6C2	5-48
3A6C33		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A6C2	5-47
3A6C34		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A6C15	5-48
3A6C35		CAPACITOR, FIXED, MICA DIELECTRIC: 100 uuf $\pm 5\%$ , 500 v dc; mfr code 72136, part no. DM15F101J500WV	5-47
3A6C36		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 3A6C21	5-48
3A6C37		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A6C18	5-48
3A6C38		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A6C13	5-47
3A6C39		CAPACITOR, FIXED, MICA DIELECTRIC: 47 uuf $\pm 5\%$ , 500 v dc; mfr code 72136, part no. DM15E470J500WV	5-47
3A6C40		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A6C6	5-48
3A6C41		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A6C2	5-48
3A6C42		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A6C2	5-48
3A6C43		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A6C15	5-48
3A6C44		CAPACITOR, FIXED, ELECTROLYTIC: same as 3A6C2	5-47
		CAPACITOR, FIXED, MICA DIELECTRIC: same as 3A6C3	5-48

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A6CR1		SEMICONDUCTOR DEVICE, DIODE: silicon; hermetically sealed; mfr code 93983, part no. 1N457	5-47
3A6CR2		SEMICONDUCTOR DEVICE, DIODE: same as 3A6CR1	5-47
3A6CR3		SEMICONDUCTOR DEVICE, MATCHED QUAD: four matched silicon diodes, encapsulated; mfr code 07263, part no. FA4000	5-48
3A6CR4		SEMICONDUCTOR DEVICE, DIODE: same as 3A6CR3	5-48
3A6CR5		SEMICONDUCTOR DEVICE, DIODE: same as 3A6CR3	5-48
3A6CR6		SEMICONDUCTOR DEVICE, DIODE: same as 3A6CR3	5-48
3A6CR7		SEMICONDUCTOR DEVICE, DIODE: same as 3A6CR3	5-48
3A6CR8		SEMICONDUCTOR DEVICE, DIODE: same as 3A6CR3	5-48
3A6CR9		SEMICONDUCTOR DEVICE, DIODE: same as 3A6CR3	5-48
3A6CR10		SEMICONDUCTOR DEVICE, DIODE: same as 3A6CR3	5-48
3A6CP1		ADAPTER, CONNECTOR: one connector w/one female contact; 50 ohms impedance; one connector w/9 male contacts, 425 v ac, 5 amps; 0.702 in. by 2.016 in. by 2.218 in. approx o/a dim.; mfr code 13499, part no. 554-4792-003	
3A6H1		SCREW, SHOULDERED, HOLD DOWN: cres; passivate finish; no. 8-32NC-2A thd; 6.269 in. lg o/a; mfr code 13499, part no. 554-4765-002	5-48
3A6J1		NOT USED	
3A6J2		NOT USED	
3A6J3		NOT USED	
3A6J4		NOT USED	
3A6J5		NOT USED	
3A6J6		NOT USED	
3A6J7		NOT USED	
3A6J8		CONNECTOR, RECEPTACLE, ELECTRICAL: 5 #20 male contacts, 4 coaxial contacts; 5 amps; mfr code 91146, part no. DBMF9W4S	
3A6L1		INDUCTANCE STANDARD, VARIABLE: 490 uh inductance, 300 kc; 15-44 Litz wire; mfr code 13499, part no. 554-4771-002	5-48
3A6L2		INDUCTANCE, STANDARD, VARIABLE: same as 3A6L1	5-48
3A6L3		COIL, RADIO FREQUENCY: 125 uuf at 455 kc; no. 36 AWG; mfr code 13499, part no. 554-4770-002	5-48
3A6L4		COIL, RADIO FREQUENCY: 981 turns; single layer wound; no. 40 AWG wire; 5000 uh nom inductance; 46 ohms dc resistance; 85 ma current rating; mfr code 99800, part no. 2500-62	5-48
3A6L5		COIL, RADIO FREQUENCY: same as 3A6L3	5-48
3A6L6		COIL, RADIO FREQUENCY: same as 3A6L4	5-48
3A6L7		INDUCTANCE STANDARD, VARIABLE: 250 kc; 76 uh inductance; 15-44 Litz wire; mfr code 13499, part no. 554-4815-002	5-48
3A6MP1		COVER, OSCILLATOR: aluminum; 6.484 in. by 15.625 in. by 17.750 in. o/a dim.; mfr code 13499, part no. 554-4805-005	5-46
3A6MP2		RADIO FREQUENCY TUNER SUBASSEMBLY: 0.386 in. by 1.500 in. by 4.540 in. o/a dim.; mfr code 13499, part no. 554-4775-002	5-46
3A6MP3		BASE, MOUNTING, TUNING UNIT: 0.656 in. by 1.562 in. by 6.062 in. o/a dim.; mfr code 13499, part no. 554-4798-004	
3A6P1		CONNECTOR, RECEPTACLE, ELECTRICAL: 5 #20 male contacts, 4 coaxial contacts; 5 amps; mfr code 91146, part no. DBM9W4P	5-48
3A6Q1		TRANSISTOR: mfr code 07688, JETEC type 2N499	5-48
3A6Q2		TRANSISTOR: same as 3A6Q1	5-48
3A6Q3		TRANSISTOR: same as 3A6Q1	5-48
3A6Q4		TRANSISTOR: same as 3A6Q1	5-48

TABLE 6-2. (Continued)

## CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A6Q5		TRANSISTOR: same as 3A6Q1	5-48
3A6Q6		TRANSISTOR: same as 3A6Q1	5-48
3A6R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF562K	5-47
3A6R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF102K	5-47
3A6R3		RESISTOR, FIXED, COMPOSITION: same as 3A6R1	5-48
3A6R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF222K	5-47
3A6R5		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-47
3A6R6		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF333K	5-48
3A6R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF820K	5-47
3A6R8		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF472K	5-48
3A6R9		NOT USED	
3A6R10		RESISTOR, FIXED, COMPOSITION: same as 3A6R7	5-47
3A6R11		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF120K	5-47
3A6R12		RESISTOR, FIXED, COMPOSITION: same as 3A6R5	5-48
3A6R13		RESISTOR, FIXED, COMPOSITION: same as 3A6R5	5-47
3A6R14		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF332K	5-48
3A6R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF473K	5-48
3A6R16		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF563K	5-48
3A6R17		RESISTOR, FIXED, COMPOSITION: same as 3A6R8	5-48
3A6R18		RESISTOR, FIXED, COMPOSITION: same as 3A6R5	5-48
3A6R19		RESISTOR, FIXED, COMPOSITION: same as 3A6R5	5-48
3A6R20		RESISTOR, FIXED, COMPOSITION: same as 3A6R8	5-47
3A6R21		RESISTOR, FIXED, COMPOSITION: same as 3A6R1	5-48
3A6R22		RESISTOR, FIXED, COMPOSITION: same as 3A6R15	5-47
3A6R23		RESISTOR, FIXED, COMPOSITION: same as 3A6R16	5-47
3A6R24		RESISTOR, FIXED, COMPOSITION: same as 3A6R8	5-48
3A6R25		RESISTOR, FIXED, COMPOSITION: same as 3A6R5	5-47
3A6R26		RESISTOR, FIXED, COMPOSITION: same as 3A6R5	5-47
3A6R27		RESISTOR, FIXED, COMPOSITION: same as 3A6R1	5-47
3A6R28		RESISTOR, FIXED, COMPOSITION: same as 3A6R8	5-48
3A6R29		RESISTOR, FIXED, FILM: MIL type RN60B17R8F	5-48
3A6R30		RESISTOR, FIXED, FILM: MIL type RN60B21R5F	5-47
3A6R31		RESISTOR, FIXED, COMPOSITION: same as 3A6R8	
3A6R32		RESISTOR, FIXED, COMPOSITION: same as 3A6R8	
3A6S1		SWITCH, ROTARY: 2 circuit, 10 position; 1 amp at 28 v dc, 1 amp at 115 v ac; thumbwheel for manual operation; mfr code 10984, part no. TTS27525	5-46
3A6T1		TRANSFORMER, VARIABLE, RADIO FREQUENCY: 300 kc; 85 to 100 hy inductance; mfr code 13499, part no. 554-4773-002	5-48
3A6T2		TRANSFORMER, VARIABLE, RADIO FREQUENCY: 512 kc; 163 to 187 hy inductance; mfr code 13499, part no. 554-4772-002	5-48
3A6T3		TRANSFORMER, VARIABLE, RADIO FREQUENCY: same as 3A6T2	5-48
3A6T4		TRANSFORMER, VARIABLE, RADIO FREQUENCY: same as 3A6T1	5-48
3A6W1		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: 2.016 in. by 2.218 in. by 24 in. o/a dim.; mfr code 13499, part no. 554-4784-003	
3A6W2		CABLE, RADIO FREQUENCY: white jacket; mfr code 80058, type RG178BU	
3A6Y1		CRYSTAL UNIT, QUARTZ: 212.100 kc; mfr 75378, part no. 290-0211-00	5-46
3A6Y2		CRYSTAL UNIT, QUARTZ: 212.200 kc; mfr 75378, part no. 290-0212-00	5-46
3A6Y3		CRYSTAL UNIT, QUARTZ: 212.300 kc; mfr 75378, part no. 290-0213-00	5-46
3A6Y4		CRYSTAL UNIT, QUARTZ: 212.400 kc; mfr 75378, part no. 290-0214-00	5-46
3A6Y5		CRYSTAL UNIT, QUARTZ: 212.500 kc; mfr 75378, part no. 290-0215-00	5-46

TABLE 6-2. (Continued)

CONVERTER-OSCILLATOR, CV-731/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
3A6Y6		CRYSTAL UNIT, QUARTZ: 212.600 kc; mfr code 75378, part no. 290-0216-00	5-46
3A6Y7		CRYSTAL UNIT, QUARTZ: 212.700 kc; mfr code 75378, part no. 290-0217-00	5-46
3A6Y8		CRYSTAL UNIT, QUARTZ: 212.800 kc; mfr code 75378, part no. 290-0218-00	5-46
3A6Y9		CRYSTAL UNIT, QUARTZ: 212.900 kc; mfr code 75378, part no. 290-0219-00	5-46
3A6Y10		CRYSTAL UNIT, QUARTZ: 213.000 kc; mfr code 75378, part no. 290-0220-00	5-46

AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

Unit 4		AMPLIFIER-CONVERTER-MODULATOR: aluminum; 6.3 v ac; 60 cps single phase; +130 v ac, +28.5 v ac, +28 v ac, +27.5 v ac & -90 v ac; 50 mc audio amplifier power output; 5.0 mw modulator power output; 6.875 in. by 6.875 in. by 19 in. o/a dim.; mfr code 13499, part no. 522-0861-004	
4C1		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1000 uuf -20% +80%, 500 v dc; mfr code 72982, part no. 327047X5TO102Z	5-50
4C2		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C3		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C4		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C5		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C6		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C7		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C8		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C9		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C11		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C12		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C13		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C14		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C15		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C16		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C17		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C18		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C19		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C20		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C21		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C22		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C23		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C24		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C25		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C26		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C27		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C28		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C29		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C30		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C31		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C32		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C33		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C34		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50
4C35		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 4C1	5-50

TABLE 6-2. (Continued)

## AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
4C36		NOT USED	
4C37		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.047 uf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 186P47301S1	5-50
4C38		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4C37	5-50
4CR1		SEMICONDUCTOR DEVICE, DIODE: silicon, hermetically sealed; mfr code 73293, part no. 1N457	5-50
4CR2		SEMICONDUCTOR DEVICE, DIODE: silicon, hermetically sealed; mfr code 73293, part no. 1N458	5-50
4CR3		SEMICONDUCTOR DEVICE, DIODE: same as 4CR2	5-50
4CR4		SEMICONDUCTOR DEVICE, DIODE: same as 4CR1	5-50
4CR5		SEMICONDUCTOR DEVICE, DIODE: same as 4CR1	5-50
4CR6		SEMICONDUCTOR DEVICE, DIODE: same as 4CR1	5-50
4CR7		SEMICONDUCTOR DEVICE, DIODE: same as 4CR1	5-50
4E1		SHIELD, ELECTRON TUBE: accommodates RETMA tube envelope style T-6-1/2, 1-15/16 in. lg; straight cylinder shape w/flared end; open top; mfr code 13499, part no. 541-6554-003	
4E2		NOT USED	
4E3		NOT USED	
4E4		TERMINAL STUD: brass; 1/4 in. hex, 0.632 in. lg; mfr code 92825, part no. 2A1DB12	
4E5		TERMINAL, STUD: same as 4E4	
4E6		TERMINAL, STUD: same as 4E4	
4E7		TERMINAL, STUD: same as 4E4	
4E8		TERMINAL, STUD: same as 4E4	
4J1		CONNECTOR, RECEPTACLE, ELECTRICAL: 15 female contacts, 5 amps current rating; mfr code 71468, part no. DAF15S1A101	5-10 & 5-50
4J2		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 4J1	5-10 & 5-50
4J3		CONNECTOR, RECEPTACLE, ELECTRICAL: 10 flat female contacts, 5 amps; straight shape; mfr code 02660, part no. 143-010-01	5-10 & 5-50
4J4		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 4J3	5-10 & 5-50
4J5		CONNECTOR, RECEPTACLE, ELECTRICAL: 12 female contacts, 3 amps; straight shape; mfr code 81312, part no. KKM12S	5-10 & 5-50
4J6		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 4J3	5-10 & 5-50
4J7		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 4J3	5-10 & 5-50
4J8		CONNECTOR, RECEPTACLE, ELECTRICAL: low loss plastic dielectric; 1 female contact, 1 mating end; mfr code 80058, part no. UG1094U	5-10 & 5-49



TABLE 6-2. (Continued)

## AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
4J9		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 4J8	5-49 &
4J10		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 4J8	5-50 5-49 &
4J11		CONNECTOR, RECEPTACLE, ELECTRICAL: 16 female contacts; 5 amps at 600 v dc; straight shape; mfr code 02660, part no. 26-4405-16S	5-50 5-49
4J12		CONNECTOR, RECEPTACLE, ELECTRICAL: 16 female contacts; 5 amps at 600 v dc; straight shape; mfr code 02660, part no. 26-4402-16S	5-49
4J13		CONNECTOR, RECEPTACLE, ELECTRICAL: 16 female contacts; 5 amps at 600 v dc; straight shape; mfr code 02660, part no. 26-4404-16S	5-49
4J14		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 4J1	5-10 &
4K1		RELAY, ARMATURE: 6 C contact arrangement; 115 v ac or 28 v dc at 3 amps; 1 inductive winding; 28 v dc working; 150 ohms; mfr code 04221, part no. 83-3243	5-50 5-50
4K2		RELAY, ARMATURE: 4 C contact arrangement; 115 v ac, 30 v dc, 3 amp noninductive current rating; 1 inductive winding, 300 ohms, 28 v, 0.09 amps; continuous duty cycle; mfr code 77523, part no. 28010-2	5-50
4M1		METER, AUDIO LEVEL: 10 to 100 cw scale range; red bar for 10 to 25 db; plastic case, panel type; black scale markings on white background; mfr code 81030, part no. 1120HBL	5-10
4O1		KNOB: setscrew type; black phenolic body; 11/16 in. dia, 0.843 in. lg; mfr code 13499, part no. 281-0294-00	
4O2		KNOB: same as 4O1	
4O3		NOT USED	
4O4		KNOB: setscrew type, rd shape; phenolic body; 0.343 in. dia, 0.406 in. thk o/a dim.; mfr code 72512, part no. 1450W	
4O5		KNOB: same as 4O4	
4R1		RESISTOR, VARIABLE, COMPOSITION: 500,000 ohms, $\pm 20\%$ , 1 w; mfr code 71450, part no. JA21072	5-10 &
4R2		RESISTOR, VARIABLE, COMPOSITION: same as 4R1	5-50 5-10 &
4R3		RESISTOR, VARIABLE, COMPOSITION: 50,000 ohms $\pm 20\%$ , 1 w; mfr code 71450, part no. JA21071	5-50 5-10 &
4R4		RESISTOR, VARIABLE, COMPOSITION: 5000 ohms, $\pm 20\%$ , 1 w; mfr code 71450, part no. JA21070	5-50 5-10 &
4R5		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF224K	5-50
4R6		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF474K	5-50
4R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF105K	5-50
4R8		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF821K	5-50
4R9		RESISTOR, FIXED, COMPOSITION: same as 4R8	5-50
4R10		RESISTOR, FIXED, COMPOSITION: same as 4R6	5-50
4R11		RESISTOR, FIXED, FILM: MIL type RN65B2151F	5-50

TABLE 6-2. (Continued)

## AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
4R12		RESISTOR, FIXED, FILM: MIL type RN70B2613F	5-50
4R13		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF104K	5-50
4R14		NOT USED	
4R15		RESISTOR, VARIABLE, COMPOSITION: 50,000 ohms, $\pm 20\%$ , 1 w; mfr code 71450, part no. JA21067	5-10
4R16		RESISTOR, VARIABLE, COMPOSITION: 100,000 ohms, $\pm 20\%$ , 1 w; mfr code 71450, part no. JA21068	5-10
4R17		RESISTOR, FIXED, FILM: MIL type RN65B1783F	5-10
4R18		RESISTOR, FIXED, FILM: MIL type RN70E5113F	5-50
4R19		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF825K	5-50
4R20		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF151K	5-50
4R21		RESISTOR, FIXED, COMPOSITION: same as 4R20	5-50
4R22		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF563K	5-50
4R23		RESISTOR, FIXED, COMPOSITION: same as 4R22	5-50
4R24		RESISTOR, FIXED, COMPOSITION: same as 4R22	5-50
4R25		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF101K	5-50
4S1		SWITCH, ROTARY: 3 positions, 6 poles, 2 throws; 6 moving contacts, 24 fixed contacts; 230 v ac, dc, 0.25 amps; mfr code 81716, part no. 182645K1	5-10
4S2		SWITCH, ROTARY: 5 positions, 2 poles, 4 throws; 2 moving contacts, 12 fixed contacts; 230 v ac, dc, 0.25 amps; mfr code 81716, part no. 195670K1	5-10
4S3		NOT USED	
4S4		SWITCH, TOGGLE: MIL type MS35058-22	5-10
4S5		SWITCH, TOGGLE: MIL type MS25100-23	5-10 & 5-50
4T1		TRANSFORMER, AUDIO FREQUENCY: line type; 600 ohms center tapped primary, 150 ohms secondary; 200 mw operating level; mfr code 97965, part no. 28218	5-50
4T2		TRANSFORMER, AUDIO FREQUENCY: same as 4T1	5-50
4T3		TRANSFORMER, AUDIO FREQUENCY: same as 4T1	5-50
4T4		TRANSFORMER, AUDIO FREQUENCY: same as 4T1	5-50
4V1		ELECTRON TUBE: glass envelope, medium-mu twin triode; mfr code 89185, part no. 5814A	5-10
4XV1		SOCKET, ELECTRON TUBE: 9 pin miniature, top mounting; 500 v ac rms, 1 amp; mfr code 94991, part no. 8000-0315	5-50
4TB1		TERMINAL BOARD: plastic-paper based laminated; includes 22 terminals; 0.093 in. by 1.312 in. by 4.250 in.; mfr code 13499, part no. 543-2839-002	5-50
4A1		LSB IF/AF: audio freq. type; 300 to 3000 cps; intermediate freq. type, 300 kc; 150 ohms output; 1.437 in. by 4.437 in. by 4.625 in. o/a dim.; filter incl.; mfr code 13499, part no. 543-0274-005	
4A1C1		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.01 uf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 196P10301S4	5-51
4A1C2		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.015 uf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 186P15301S3	5-51
4A1C3		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.10 uf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 118P10402S3	5-51
4A1C4		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.033 uf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 118P33302S3	5-51

TABLE 6-2. (Continued)

## AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
4A1C5		CAPACITOR, FIXED, MICA DIELECTRIC: 180 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T18EG	5-51
4A1C6		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A1C1	5-51
4A1C7		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A1C2	5-51
4A1C8		CAPACITOR, FIXED, MICA DIELECTRIC: 91 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5Q91EG	5-51
4A1C9		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A1C3	5-51
4A1C10		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A1C4	5-51
4A1C11		CAPACITOR, FIXED, MICA DIELECTRIC: 510 uuf $\pm 2\%$ , 300 v dc; mfr code 14655, part no. 22H5T51EG	5-52
4A1C12		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A1C1	5-51
4A1C13		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A1C3	5-51
4A1C14		CAPACITOR, FIXED, MICA DIELECTRIC: same as 4A1C11	5-52
4A1C15		CAPACITOR, FIXED, PAPER DIELECTRIC: 1000 uuf $\pm 20\%$ , 600 v dc; mfr code 56289, part no. 196P10206S4	5-52
4A1C16		CAPACITOR, FIXED, ELECTROLYTIC: MIL type CL24BQO40UP3	5-51
4A1C17		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.033 uf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 118P33302S4	5-52
4A1C18		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.0047 uf $\pm 20\%$ , 300 v dc; mfr code 56289, part no. 196P47203S4	5-51
4A1C19		NOT USED	
4A1C20		CAPACITOR, FIXED, ELECTROLYTIC: MIL type CL24BJ180UP3	5-52
4A1C21		CAPACITOR, FIXED, ELECTROLYTIC: 60 uf $\pm 20\%$ , 6 v dc; mfr code 56289, part no. 150D606X0006B2	5-52
4A1C22		CAPACITOR, FIXED, ELECTROLYTIC: same as 4A1C21	5-52
4A1C23		CAPACITOR, FIXED, ELECTROLYTIC: 0.22 uf $\pm 20\%$ , 35 v dc; mfr code 56289, part no. 150D224X0034A2	5-51
4A1C24		CAPACITOR, FIXED, ELECTROLYTIC: 2.2 uf $\pm 20\%$ , 20 v dc; mfr code 56289, part no. 150D225X0020A2	5-51
4A1C25		CAPACITOR, FIXED, MICA DIELECTRIC: 330 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T33EG	5-52
4A1C26		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A1C3	5-51
4A1C27		CAPACITOR, FIXED, MICA DIELECTRIC: 300 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T3EG	5-52
4A1C28		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A1C4	5-52
4A1C29		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A1C3	5-51
4A1C30		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 20,000 uuf $\pm 20\%$ , 100 v dc at 85°C, 50 v dc at 125°C; mfr code 96095, part no. MC80V203AM	
4A1CR1		SEMICONDUCTOR DEVICE, DIODE: silicon; hermetically sealed; mfr code 73293, part no. 1N457	5-51
4A1CR2		SEMICONDUCTOR DEVICE, DIODE: same as 4A1CR1	5-52
4A1E1		SHIELD, ELECTRON TUBE: accommodates tube envelope style T-9; 0.387 in. dia by 1-5/32 in. lg; mfr code 91314, part no. 141-0223-00	5-51
4A1E2		SHIELD, ELECTRON TUBE: accommodates tube type AF 5899A, straight cylinder shape, open top; aluminum; 0.495 in. dia, 1.437 in. lg o/a dim.; mfr code 13499, part no. 542-4782-002	5-52
4A1E3		SHIELD, ELECTRON TUBE: same as 4A1E2	5-52
4A1E4		SHIELD, ELECTRON TUBE: same as 4A1E2	5-52

TABLE 6-2. (Continued)

## AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
4A1FL1		FILTER, BAND PASS: 300 kc operating freq, 300.35 kc to 303.00 kc bandwidth; 50,000 ohms input and output; 6 solder lug type terminals; 3/4 in. dia, 3-1/2 in. lg o/a dim., excl terminals; mfr code 95105, part no. F300Z4	5-51
4A1J1		JACK, TIP: miniature self-sealing for use with 0.080 diameter plugs; teflon insulation; 5.5 amps; continuous duty cycle; mfr code 98291, part no. SKT5BCWHITE	5-51
4A1J2		JACK, TIP: same as 4A1J1	5-51
4A1L1		COIL, RADIO FREQUENCY: copper magnet wire; 3 to 5 mh; mfr code 81815, part no. X073-1	5-51
4A1L2		COIL, RADIO FREQUENCY: copper magnet wire; 25 mh; mfr code 81815, part no. X074-1	5-51
4A1P1		CONNECTOR, RECEPTACLE, ELECTRICAL: 15 #20 male contacts, straight shape; mfr code 71468, part no. DA15PA101	5-51
4A1Q1		TRANSISTOR: mfr code 07688, part no. 2N1150	5-52
4A1Q2		TRANSISTOR: silicon; mfr code 96214, part no. 2N243	5-52
4A1Q3		TRANSISTOR: same as 4A1Q2	5-52
4A1R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF102K	5-52
4A1R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF223K	5-51
4A1R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF151K	5-52
4A1R4		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF562K	5-51
4A1R5		RESISTOR, FIXED, COMPOSITION: same as 4A1R2	5-51
4A1R6		RESISTOR, FIXED, COMPOSITION: same as 4A1R3	5-51
4A1R7		RESISTOR, FIXED, COMPOSITION: same as 4A1R4	5-51
4A1R8		NOT USED	
4A1R9		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF473K	5-52
4A1R10		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF104K	5-51
4A1R11		NOT USED	
4A1R12		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF331K	5-51
4A1R13		RESISTOR, FIXED, COMPOSITION: same as 4A1R9	5-52
4A1R14		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF153K	5-52
4A1R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF184K	5-51
4A1R16		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF154K	5-52
4A1R17		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF682K	5-52
4A1R18		NOT USED	
4A1R19		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF202J	5-51
4A1R20		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF391K	5-51
4A1R21		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF101K	5-51
4A1R22		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF220K	5-51
4A1R23		RESISTOR, FIXED, COMPOSITION: same as 4A1R22	5-51
4A1R24		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF563K	5-51
4A1R25		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF334K	5-51
4A1R26		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF105K	5-51
4A1R27		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-51
4A1R28		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF333K	5-52
4A1R29		RESISTOR, FIXED, COMPOSITION: same as 4A1R4	5-51
4A1R30		RESISTOR, FIXED, COMPOSITION: same as 4A1R9	5-51
4A1R31		RESISTOR, FIXED, COMPOSITION: same as 4A1R3	5-51
4A1R32		RESISTOR, FIXED, COMPOSITION: same as 4A1R16	
4A1R33		RESISTOR, VARIABLE, WIREWOUND: 1000 ohms $\pm 10\%$ , 0.4 w; mfr code 80294, part no. 236L1-102	

TABLE 6-2. (Continued)

## AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
4A1T1		TRANSFORMER, INTERMEDIATE FREQUENCY: interstage; 290 to 310 kc; mfr code 81815, part no. X071-1	5-51
4A1T2		TRANSFORMER, AUDIO FREQUENCY: 64,000 ohms, 1 ma pri; 200 ohms sec. center tapped; 2 mw; 200 to 3500 cps at 2.5 db; mfr code 97965, part no. 27605	5-51
4A1T3		TRANSFORMER, AUDIO FREQUENCY: 2000 ohms center tapped, 20 ma pri; 150 ohms ea sec.; 350 mw; 200 to 3500 cps at 2 db; mfr code 97965, part no. 27606	5-52
4A1T4		TRANSFORMER, INTERMEDIATE FREQUENCY: interstage; 290 to 310 kc; mfr code 81815, part no. X072-1	5-51
4A1V1		ELECTRON TUBE: pentode; mfr code 82219, part no. 5899	5-51
4A1V2		ELECTRON TUBE: same as 4A1V1	5-52
4A1V3		ELECTRON TUBE: pentode; mfr code 82219, part no. 5636	5-52
4A1V4		ELECTRON TUBE: same as 4A1V1	5-52
4A2		USB IF/AF: audio freq type; 300 to 3000 cps; intermediate freq type; 300 kc freq electron tube detector rectifier; 150 ohms output; 1.500 in. by 4.500 in. by 5 in. o/a dim; filter incl; mfr code 13499, part no. 543-0275-005 (same as 4A1 except FL1)	
4A2FL1		FILTER, BAND PASS: 300 kc operating freq, 297 kc to 299.65 kc bandwidth; 50,000 ohms input and output; 6 solder lug type terminals; 3/4 in. dia, 3-1/2 in. lg o/a dim. excl terminals; mfr code 95105, part no. F300Z5	5-51
4A3		CARRIER GENERATOR: 1 channel; 300 kc input freq amplifier; 100 kc input freq, three 300 kc output freq - freq multiplier; 6.3 v ac, 400 cps, single phase; 130 v dc; 1.437 in. by 4.500 in. by 4.437 in. o/a dim.; mfr code 13499, part no. 543-1500-004	
4A3C1		CAPACITOR, FIXED, MICA DIELECTRIC: 510 uuf $\pm 5\%$ , 300 v dc; mfr code 14655, part no. 22H5T51EJ	5-55
4A3C2		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.033 uf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 196P33302S4	5-55
4A3C3		CAPACITOR, FIXED, MICA DIELECTRIC: 270 uuf $\pm 1\%$ , 300 v dc; mfr code 72136, part no. CM15E271F300WV	5-55
4A3C4		CAPACITOR, FIXED, MICA DIELECTRIC: 3500 uuf $\pm 2\%$ , 500 v dc; mfr code 72982, part no. 63301314A4352G	5-55
4A3C5		CAPACITOR, VARIABLE, GLASS DIELECTRIC: concentric type, 1 section; 1 uuf min to 19 uuf max; mfr code 73899, part no. VC42G	5-55
4A3C6		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.047 uf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 196P47301S4	5-56
4A3C7		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A3C6	5-55
4A3C8		CAPACITOR, FIXED, MICA DIELECTRIC: 39 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5Q39DJ	5-56
4A3C9		CAPACITOR, FIXED, MICA DIELECTRIC: same as 4A3C1	5-56
4A3C10		CAPACITOR, FIXED, ELECTROLYTIC: MIL type CL21CK020TP3	5-56
4A3C11		CAPACITOR, FIXED, MICA DIELECTRIC: 150 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5T15EJ	5-55
4A3C12		CAPACITOR, FIXED, MICA DIELECTRIC: same as 4A3C11	5-55
4A3C13		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A3C2	5-56
4A3C14		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A3C2	5-55
4A3C15		CAPACITOR, FIXED, MICA DIELECTRIC: 100 uuf $\pm 5\%$ , 500 v dc; mfr code 14655, part no. 22H5T1EJ	5-56
4A3C16		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A3C2	5-56
4A3C17		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A3C2	5-56

TABLE 6-2. (Continued)

AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
4A3C18		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50,000 uuf ±20%, 100 v dc; mfr code 96095, part no. MC80V503AM	5-55
4A3CR1		SEMICONDUCTOR DEVICE, DIODE: silicon, hermetically sealed; mfr code 73293, part no. 1N457	5-56
4A3E1		SHIELD, ELECTRON TUBE: accommodates tube type AF 5899A, straight cylinder shape, open top; aluminum; 0.495 in. dia, 1.437 in. lg o/a dim.; mfr code 13499, part no. 542-4782-002	5-55
4A3E2		SHIELD, ELECTRON TUBE: same as 4A3E1	5-55
4A3E3		SHIELD, ELECTRON TUBE: same as 4A3C1	5-56
4A3J1		JACK, TIP: accommodates std phone tip; 1250 v ac, 5 amps; mfr code 98291, part no. SKT2BC	5-55
4A3J2		JACK, TIP: same as 4A3J1	5-55
4A3J3		JACK, TIP: same as 4A3J1	5-56
4A3L1		COIL, RADIO FREQUENCY: toroidal wound type; 55 uh nom inductance; 2 solder lug type terminals; metal case; 0.690 in. dia, 0.375 in. lg o/a dim.; mfr code 82068, part no. S63657	5-55
4A3L2		COIL, RADIO FREQUENCY: universal wound, 3 pies, #32 AWG wire; 3.00 uh nom inductance, 2.0 ohms dc resistance, 300 ma dc current rating; mfr code 99800, part no. BS268	5-56
4A3L3		COIL, RADIO FREQUENCY: universal wound pi sections; 20 ma cur; 1.0 mh; mfr code 99800, part no. BP255	5-55
4A3L4		PLATE, CAPACITOR: aluminum, chromate dipped finish; cylindrical shape; 2-1/2 in. dia, 1/4 in. thk o/a dim.; mfr code 13499, part no. 542-1847-002	5-55
4A3L5		COIL, RADIO FREQUENCY: universal wound pi sections; 20 ma, 3.0 mh; mfr code 99800, part no. BP256	5-55
4A3L6		COIL, RADIO FREQUENCY: same as 4A3L5	5-56
4A3P1		CONNECTOR, PLUG, ELECTRICAL: printed circuit plug feedthru, p/o carrier generator, built in	5-55
4A3R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF105K	5-55
*4A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103J	5-55
*4A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF113J	5-55
*4A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF123J	5-55
*4A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF133J	5-55
*4A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF153J	5-55
*4A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF163J	5-55
*4A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF183J	5-55
*4A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF203J	5-55
*4A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF223J	5-55
*4A3R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF243J	5-55
4A3R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF824K	5-55
4A3R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF223K	5-55
4A3R5		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF821K	5-55
4A3R6		NOT USED	
4A3R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF153K	5-56
4A3R8		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF470K	5-56
4A3R9		NOT USED	
4A3R10		RESISTOR, FIXED, COMPOSITION: same as 4A3R7	5-56
4A3R11		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF562K	5-56
4A3R12		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF563K	5-56

\*Chosen per operational requirements

TABLE 6-2. (Continued)

## AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
4A3TB1		PRINTED CIRCUIT BOARD: copper clad plastic; 0.125 in. by 3.841 in. by 4.500 in.; incl 20 terminals and hardware; mfr code 13499, part no. 543-1844-003	5-56
4A3TB2		PRINTED CIRCUIT BOARD: plastic copper clad glass epoxy; 0.062 in. by 3.700 in. by 3.800 in.; incl 14 terminals and hardware; mfr code 13499, part no. 543-1845-003	5-55
4A3V1		ELECTRON TUBE: subminiature pentode; mfr code 82219, part no. 5840	5-55
4A3V2		ELECTRON TUBE: glass envelope; subminiature medium-mu twin triode; mfr code 24446, part no. 6021	5-55
4A3V3		ELECTRON TUBE: same as 4A3V1	5-56
4A3Z1		AMPLIFIER SUBASSEMBLY: c/o 1 board, 10 capacitors, 4 resistors, 3 chokes, 2 tubes, 1 toroid, insulation and hardware; mfr code 13499, part no. 543-1848-003	
4A3Z2		AMPLIFIER SUBASSEMBLY: c/o 1 board, 2 chokes, 1 tube and insulation; mfr code 13499, part no. 543-1849-003	
4A4		BALANCED MODULATOR: 2 to 4 mv power output; 350 to 3000 cps; 150 ohms input, 100 ohms output; 1.437 in. by 4.375 in. by 4.812 in. o/a dim.; mfr code 13499, part no. 543-1351-004	
4A4A1		MODULATOR SUBASSEMBLY: 0.062 in. by 2.500 in. by 4.625 in. o/a board dim.; two 0.147 in. dia mtg holes spaced 1.350 in. c to c; mfr code 13499, part no. 543-1352-003	
4A4A1C1		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.01 uf $\pm$ 20%, 100 v dc; mfr code 56289, part no. 186P10301S3	5-57 &
4A4A1C2		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A4A1C1	5-58 5-57 &
4A4A1CR1		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 93983, part no. Q97-1N252QUAD	5-58 5-57 &
4A4A1FL1		FILTER, BAND PASS: 300 kc operating freq, 300.35 kc to 303.00 kc bandwidth; 50,000 ohms input and output; 6 solder lug type terminals; 3/4 in. dia, 3-1/2 in. lg o/a dim. excl terminals; mfr code 95105, part no. F300Z4	5-58 5-57
4A4A1J1		JACK, TIP: accommodates std phone tip; 1250 v ac, 5 amps; mfr code 98291, part no. SKT2BC	5-57 &
4A4A1J2		JACK, TIP: same as 4A4A1J1	5-58 5-57 &
4A4A1L1		COIL, RADIO FREQUENCY: 1.0 mh inductance, 500 v rms, 60 ma current capacity; mfr code 99800, part no. BS222	5-58 5-57 &
4A4A1L2		COIL, RADIO FREQUENCY: same as 4A4A1L1	5-58 5-57 &
4A4A1R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF101K	5-58 5-57 & 5-58

TABLE 6-2. (Continued)

## AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
4A4A1R2		RESISTOR, FIXED, COMPOSITION: same as 4A4A1R1	5-57 &
4A4A1R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF471K	5-58 5-57 &
4A4A1R4		RESISTOR, FIXED, COMPOSITION: same as 4A4A1R3	5-58 5-57 &
4A4A1R5		RESISTOR, FIXED, COMPOSITION: same as 4A4A1R3	5-58 5-57 &
4A4A1R6		RESISTOR, FIXED, COMPOSITION: same as 4A4A1R3	5-58 5-57 &
4A4A1R7		RESISTOR, VARIABLE, WIREWOUND: 200 ohms $\pm 10\%$ , 0.8 w; mfr code 80294, part no. 236L1-201	5-57 &
4A4A1R8		RESISTOR, VARIABLE, WIREWOUND: same as 4A4A1R7	5-58 5-57 &
4A4A1R9		RESISTOR, FIXED, WIREWOUND: 500 ohms $\pm 1\%$ , 1/4 w; mfr code 15909, part no. R471-24	5-58 5-57 &
4A4A1R10		RESISTOR, FIXED, WIREWOUND: same as 4A4A1R10	5-58 5-57 &
4A4A1R11		RESISTOR, FIXED, FILM: MIL type RN60C5110F	5-58 5-57 &
4A4A1R12		RESISTOR, FIXED, FILM: MIL type RN60C5110F	5-58 5-57 &
4A4A1R13		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF331K	5-58 5-57 &
4A4A1R14		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF222K	5-58 5-57 &
4A4A1T1		TRANSFORMER, AUDIO FREQUENCY: pri 150 ohms; two sec. 150 ohms each, metal case, hermetically sealed; mfr code 97315, part no. BC1164	5-58 5-57 &
4A4A1TB1		PRINTED CIRCUIT BOARD: plastic copper clad glass epoxy; 0.062 in. by 2.500 in. by 4.625 in.; incl 2 brackets, 2 terminals, and hardware; mfr code 13499, part no. 543-1354-002	5-58
4A4A2		MODULATOR SUBASSY: 0.062 in. by 2.500 in. by 4.625 in. o/a dim.; two 0.147 in. dia mtg holes spaced 1.350 in. c to c; mfr code 13499, part no. 543-1353-003 (same as 4A4A1 except for FL1)	



TABLE 6-2. (Continued)

## AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
4A4A2FL1		FILTER, BAND PASS: 300 kc operating freq, 297 kc to 299.65 kc bandwidth; 50,000 ohms input and output; 6 solder lug type terminals; 3/4 in. dia, 3-1/2 in. lg o/a dim excl terminals; mfr code 95105, part no. F300Z5	5-57
4A5		TGC: 1.25 v dc, 95 v dc and 6.3 v ac inputs; 1.437 in. by 4.375 in. by 4.500 in. o/a dim.; mfr code 13499, part no. 543-5181-003	
4A5C1		CAPACITOR, FIXED, MICA DIELECTRIC: 240 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T24EG	5-59
4A5C2		CAPACITOR, FIXED, MICA DIELECTRIC: 510 uuf $\pm 2\%$ , 300 v dc; mfr code 14655, part no. 22H5T51EG	5-59
4A5C3		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.01 uf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 196P10301S4	5-59
4A5C4		CAPACITOR, FIXED, ELECTROLYTIC: MIL type CL34BQOR5MP3	5-59
4A5C5		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A5C3	5-59
4A5C6		CAPACITOR, FIXED, ELECTROLYTIC: MIL type CL24BJ4R5UP3	5-59
4A5C7		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.1 uf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 196P10401S4	5-59
4A5C8		CAPACITOR, FIXED, PAPER DIELECTRIC: 100,000 uuf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 196P10402S4	5-59
4A5C9		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.033 uf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 196P33302S4	5-59
4A5C10		CAPACITOR, FIXED, MICA DIELECTRIC: 270 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T51EG	5-59
4A5J1		JACK, TIP: accommodates std phone tip; 1250 v ac, 5 amps; mfr code 98291, part no. SKT2BC	5-59
4A5J2		JACK, TIP: same as 4A5J1	5-59
4A5L1		COIL, RADIO FREQUENCY: universal wound pi sections; 20 ma, 3.0 mh; mfr code 99800, part no. BP256	5-59
4A5L2		COIL, RADIO FREQUENCY: same as 4A5L1	5-59
4A5P1		CONNECTOR, PLUG, ELECTRICAL: printed circuit plug feedthru, p/o TGC built in	5-59
4A5R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF224K	5-59
4A5R2		RESISTOR, FIXED, COMPOSITION: same as 4A5R1	5-59
4A5R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF105K	5-59
4A5R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF151K	5-59
4A5R5		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF392K	5-59
4A5T1		TRANSFORMER, INTERMEDIATE FREQUENCY: interstage; 270 to 330 kc; mfr code 81815, part no. X069-1	5-59
4A5T2		TRANSFORMER, INTERMEDIATE FREQUENCY: interstage; 270 to 330 kc; mfr code 81815, part no. X070-1	5-59
4A5TB1		PRINTED CIRCUIT BOARD: copperclad glass epoxy; 0.0625 in. by 3 in. by 4.640 in.; incl 2 brackets, 8 terminals, and hardware; mfr code 13499, part no. 543-1031-003	5-59
4A5V1		ELECTRON TUBE: pentode; mfr code 82219, part no. 5899	5-59
4A6		AM-IF/AF: audio freq type 300 to 3000 cps; intermediate freq type -300 kc; electron tube detector rectifier; 150 ohms output; 1.500 in. by 4.500 in. by 5 in. o/a dim. filter incl; mfr code 13499, part no. 543-0276-005	
4A6C1		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 0.015 uf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 186P15301S3	5-53
4A6C2		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.10 uf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 118P10402S3	5-53

TABLE 6-2. (Continued)

## AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
4A6C3		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.033 uf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 118P33302S3	5-53
4A6C4		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.01 uf $\pm 20\%$ , 100 v dc; mfr code 56289, part no. 196P10301S4	5-53
4A6C5		CAPACITOR, FIXED, MICA DIELECTRIC: 180 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T18EG	5-53
4A6C6		CAPACITOR, FIXED, MICA DIELECTRIC: 91 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5Q91EG	5-53
4A6C7		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A6C1	5-53
4A6C8		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A6C2	5-53
4A6C9		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A6C3	5-53
4A6C10		CAPACITOR, FIXED, MICA DIELECTRIC: 510 uuf $\pm 2\%$ , 300 v dc; mfr code 14655, part no. 22H5T51EG	5-51
4A6C11		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A6C2	5-53
4A6C12		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A6C3	5-53
4A6C13		CAPACITOR, FIXED, MICA DIELECTRIC: same as 4A6C10	5-51
4A6C14		CAPACITOR, FIXED, MICA DIELECTRIC: 330 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T33EG	5-51
4A6C15		NOT USED	
4A6C16		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.0068 uf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 196P68202S4	5-53
4A6C17		NOT USED	
4A6C18		CAPACITOR, FIXED, ELECTROLYTIC: 60 uf $\pm 20\%$ , 6 v dc; mfr code 56289, part no. 150D606X0006B2	5-54
4A6C19		CAPACITOR, FIXED, ELECTROLYTIC: same as 4A7C18	5-54
4A6C20		CAPACITOR, FIXED, ELECTROLYTIC: MIL type CL24BJ180UP3	5-54
4A6C21		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A6C2	5-53
4A6C22		CAPACITOR, FIXED, MICA DIELECTRIC: same as 4A6C14	5-54
4A6C23		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A6C2	5-53
4A6C24		CAPACITOR, FIXED, MICA DIELECTRIC: 300 uuf $\pm 2\%$ , 500 v dc; mfr code 14655, part no. 22H5T3EG	5-54
4A6C25		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A6C3	5-53
4A6C26		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A6C2	5-53
4A6C27		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 4A6C4	5-53
4A6C28		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 20,000 uuf $\pm 20\%$ , 100 v dc; mfr code 96095, part no. MC80V203AM	
4A6C29		CAPACITOR, FIXED, ELECTROLYTIC: 4.7 uf $\pm 20\%$ , 35 v dc; mfr code 05397, part no. K4R7J35	
4A6C30		CAPACITOR, FIXED CERAMIC DIELECTRIC: same as 4A6C28	
4A6CR1		SEMICONDUCTOR DEVICE, DIODE: silicon, hermetically sealed; mfr code 73293, part no. 1N457	5-54
4A6CR2		SEMICONDUCTOR DEVICE, DIODE: same as 4A6CR1	5-53 &
4A6CR3		SEMICONDUCTOR DEVICE, DIODE: same as 4A6CR1	5-53 &
4A6E1		SHIELD, ELECTRON TUBE: accommodates tube envelope style T-9; 0.387 in. dia, 1-5/37 in. lg; mfr code 91314, part no. 141-0223-00	5-54 5-53

TABLE 6-2. (Continued)

## AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
4A6E2		SHIELD, ELECTRON TUBE: accommodates tube type AF 5899A, straight cylinder shape, open top; aluminum; 0.495 in. dia, 1.437 in. lg o/a dim.; mfr code 13499, part no. 542-4782-002	5-54
4A6E3		SHIELD, ELECTRON TUBE: same as 4A6E2	5-54
4A6E4		SHIELD, ELECTRON TUBE: same as 4A6E2	5-54
4A6FL1		FILTER, BAND PASS: 300 kc operating freq, 297.0 to 303.3 kc bandwidth; 50,000 ohms input and output; 6 solder lug type terminals; 3/4 in. dia, 3-1/2 in. lg o/a dim.; excl terminals; mfr code 95105, part no. F300X68	5-53
4A6J1		JACK, TIP: miniature self-sealing for use with 0.080 diameter plugs; teflon, insulation; 5.5 amps; continuous duty cycle; mfr code 98291, part no. SKT5BCWHITE	5-53
4A6J2		JACK, TIP: same as 4A6J1	5-53
4A6L1		COIL, RADIO FREQUENCY: copper magnet wire; 3 to 5 mh; mfr code 81815, part no. X073-1	5-53
4A6P1		CONNECTOR, RECEPTACLE, ELECTRICAL: 15 #20 male contacts, straight shape; mfr code 71468, part no. DA15PA101	5-53
4A6Q1		TRANSISTOR: mfr code 07688, JETEC type 2N1150	5-54
4A6Q2		TRANSISTOR: silicon; mfr code 96214, part no. 2N243	
4A6Q3		TRANSISTOR: same as 4A6Q2	5-54
4A6R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF102K	5-54
4A6R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF223K	5-53
4A6R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF151K	5-54
4A6R4		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF562K	5-53
4A6R5		RESISTOR, FIXED, COMPOSITION: same as 4A6R2	5-53
4A6R6		RESISTOR, FIXED, COMPOSITION: same as 4A6R3	5-53
4A6R7		RESISTOR, FIXED, COMPOSITION: same as 4A6R4	5-53
4A6R8		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF273K	5-54
4A6R9		RESISTOR, FIXED, COMPOSITION: same as 4A6R3	5-53
4A6R10		RESISTOR, FIXED, COMPOSITION: same as 4A6R4	5-54
4A6R11		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF683K	5-54
4A6R12		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF183K	5-54
4A6R13		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF393K	5-53
4A6R14		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF184K	5-53
4A6R15		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF154K	5-54
4A6R16		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF682K	5-54
4A6R17		NOT USED	
4A6R18		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF202J	5-53
4A6R19		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF391K	5-53
4A6R20		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF101K	5-53
4A6R21		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF220K	5-53
4A6R22		RESISTOR, FIXED, COMPOSITION: same as 4A6R21	5-53
4A6R23		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF104K	5-53
4A6R24		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF334K	5-53
4A6R25		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-53
4A6R26		RESISTOR, FIXED, COMPOSITION: same as 4A6R25	5-53
4A6R27		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF393K	5-54
4A6R28		RESISTOR, FIXED, COMPOSITION: same as 4A6R4	5-53
4A6R29		RESISTOR, FIXED, COMPOSITION: same as 4A6R11	5-53
4A6R30		RESISTOR, FIXED, COMPOSITION: same as 4A6R3	5-53

TABLE 6-2. (Continued)

AMPLIFIER-CONVERTER-MODULATOR, AM-2064/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
4A6R31		RESISTOR, VARIABLE, WIREWOUND: 1000 ohms $\pm 10\%$ , 0.8 w; mfr code 80294, part no. 236L-1-102	
*4A6R32		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF154K	
*4A6R32		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF184K	
4A6T1		TRANSFORMER, INTERMEDIATE FREQUENCY: interstage; 290 to 310 kc; mfr code 81815, part no. X071-1	5-53
4A6T2		TRANSFORMER, INTERMEDIATE FREQUENCY: same as 4A6T1	5-53
4A6T3		TRANSFORMER, AUDIO FREQUENCY: 64,000 ohms, 1 ma pri; 200 ohms sec. center tapped; 2 mw; 200 to 3500 cps at 2.5 db; mfr code 97965, part no. 27605	5-53
4A6T4		TRANSFORMER, AUDIO FREQUENCY: 2000 ohms center tapped, 21 ma pri; 150 ohms ea secondary; 350 mw; 200 to 3500 cps at 2 db; mfr code 97965, part no. 27606	5-54
4A6T5		TRANSFORMER, INTERMEDIATE FREQUENCY: interstage; 290 to 310 kc; mfr code 81815, part no. X072-1	5-53
4A6V1		ELECTRON TUBE: pentode; mfr code 82219, part no. 5899	5-54
4A6V2		ELECTRON TUBE: same as 4A6V1	5-54
4A6V3		ELECTRON TUBE: same as 4A6V1	5-54
4A6V4		ELECTRON TUBE: same as 4A6V1	5-54

CONVERTER-MONITOR, CV-730/URC

UNIT 5		CONVERTER-MONITOR, CV-730/URC: operating voltages 6.3 v ac, 130 v dc, 28 v dc, -90 v dc; operating frequencies 1 kc, 1.5 kc; FSK frequency of 1,575 cps and 2,425 cps; mfr code 13499, part no. 543-8129-00	
5C1		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 0.02 uf -20% +100%, 500 v dc; mfr code 72982, part no. 881011W5V0203Z	5-63
5C2		CAPACITOR, FIXED, PAPER DIELECTRIC: 1.0 uf $\pm 20\%$ , 200 v dc; mfr code 56289, part no. 196P10502S9	5-63
5C3		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.1 uf $\pm 10\%$ , 100 v dc; mfr code 56289, part no. 186P10491S15	5-63
5C4		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 340 uuf min, 1070 uuf max; 1000 v dc; mfr code 72136, part no. PD52709	5-63 & 5-11
5C5		CAPACITOR, FIXED, MICA DIELECTRIC: 6800 uuf $\pm 2\%$ , 500 v dc; mfr code 72136, part no. DM30F682G	5-63
5C6		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as 5C4	5-63 & 5-11
5C7		CAPACITOR, FIXED, MICA DIELECTRIC: 3900 uuf $\pm 2\%$ , 500 v dc; mfr code 72136, part no. DM20F392G500WV	5-63
5C8		CAPACITOR, FIXED, MICA DIELECTRIC: 33,000 uuf $\pm 2\%$ , 300 v dc; mfr code 72136, part no. DM42F333G	5-63
5C9		CAPACITOR, FIXED, MICA DIELECTRIC: 12,000 uuf $\pm 2\%$ , 300 v dc; mfr code 72136, part no. DM30F123G	5-63
5C10, 5C11		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 5C1	5-63
5C12		NOT USED	
5C13		CAPACITOR, FIXED, ELECTROLYTIC: 6 uf -10% to +100%, 50 v dc; mfr code 56289, part no. 40D191A2	5-63

\*Chosen per operational requirements

TABLE 6-2. (Continued)

## CONVERTER-MONITOR, CV-730/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
5C14		CAPACITOR, FIXED, ELECTROLYTIC: same as 5C13	5-63
5C15		CAPACITOR, FIXED, ELECTROLYTIC: same as 5C13	5-63
5C16		CAPACITOR, FIXED, ELECTROLYTIC: same as 5C13	5-63
5C17		CAPACITOR, FIXED, CERAMIC DIELECTRIC: MIL type CK62AW472M	5-63
5C18		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 5C1	5-63
5C19		CAPACITOR, FIXED, MICA DIELECTRIC: 470 uuf $\pm 2\%$ , 300 v dc; mfr code 72136, part no. CM15E471G	5-63
5C20		CAPACITOR, FIXED, MICA DIELECTRIC: 2000 uuf $\pm 2\%$ , 500 v dc; mfr code 72136, part no. DM19F202G-500WV	5-63
5C21		CAPACITOR, FIXED, MICA DIELECTRIC: 680 uuf $\pm 2\%$ , 500 v dc; mfr code 72136, part no. DM19F681G-500WV	5-63
5C22		CAPACITOR, FIXED, MICA DIELECTRIC: same as 5C19	5-63
5C23		NOT USED	
5C24		NOT USED	
5C25		NOT USED	
5C26		CAPACITOR, FIXED, MICA DIELECTRIC: 130 uuf $\pm 2\%$ , 500 v dc; mfr code 72136, part no. VCM15E131G	5-63
5C27		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.47 uf $\pm 20\%$ , 300 v dc; mfr code 56289, part no. 186P47403T15	
5CR1		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 96214, part no. 650C0	5-63
5CR2		SEMICONDUCTOR DEVICE, DIODE: germanium; hermetically sealed; mfr code 07688, JETEC type 1N198	5-63
5CR3		SEMICONDUCTOR DEVICE, DIODE: same as 5CR2	5-63
5CR4		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 24446, part no. 1N1489	5-63
5CR5		SEMICONDUCTOR DEVICE, DIODE: same as 5CR2	5-63
5CR6		SEMICONDUCTOR DEVICE, DIODE: same as 5CR2	
5DS1		LAMP, INCANDESCENT: MIL type MS15571-4	5-11
5DS2		LAMP, INCANDESCRNT: miniature bayonet base; T-3-1/4 pilot light bulb; 6.3 v, 1.150 amp; mfr code 24446, part no. 47	5-11
5DS3		LENS, INDICATOR LIGHT: clear, red; 21/32 in. dia by 5/8 in. lg; mfr code 13499, part no. 262-2160-00	
5DS4		LENS, INDICATOR LIGHT: clear, green; 21/32 in. dia by 5/8 in. lg; mfr code 72765, part no. 11676	
5E1		SHIELD, ELECTRON TUBE: accommodates RETMA tube envelope style T-6-1/2, 1-15/16 in. lg; straight shape w/ flared end, open top; 0.810 in. h, 1.065 in. w, 1.812 in. lg; mfr code 13499, part no. 541-6554-003	5-11
5E2		SHIELD, ELECTRON TUBE: same as 5E1	5-11
5E3		TERMINAL, STUD: insulated; brass, silver plated; 0.250 in. hex by 0.632 in. lg o/a; mfr code 92825, part no. 2A1DB12	
5E4		TERMINAL, STUD: same as 5E3	
thru 5E22			
5E23		TERMINAL, STUD: insulated; brass, silver plated; 0.250 in. hex by 0.788 in. lg; mfr code 92825, part no. 2B1DB12	
5E24		TERMINAL, STUD: same as 5E23	
thru 5E27			
5H1		POST, SPACING: aluminum, chromate dip; 0.3125 in. hex, 3.831 in. lg; mfr code 13499, part no. 541-0163-00	5-11

TABLE 6-2. (Continued)

## CONVERTER-MONITOR, CV-730/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
5H2		RING, RETAINING: spring steel, 0.225 in. by 0.025 in. by 0.45 in.; mfr code 89462, part no. 5100-25MD	
5J1		CONNECTOR, RECEPTACLE, ELECTRICAL: 24 flat female contacts; 5 amp, 600 v dc; straight shape; mfr code 02660, part no. 26-4401-24S	5-63
5J2		CONNECTOR, RECEPTACLE, ELECTRICAL: 1 female contact, 50 ohms; straight shape; mfr code 80058, type UG1094U	5-63
5J3		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 5J2	5-63
5K1		RELAY, ARMATURE: 1 c contact arrangement; 1 amp at 28 v dc resistive, 1 amp at 115 v dc resistive; mfr code 78277, part no. 93550	5-63
5L1		COIL, RADIO FREQUENCY: toroidal wound, no. 38 AWG, formvar insulated, 1000 mh, 12.4 ma cur; mfr code 88063, part no. MP206-31B	5-63
5L2		COIL, RADIO FREQUENCY: same as 5L1	5-63
5M1		METER, AUDIO LEVEL: VU; -20 to +3 cw; rd band from 0 to +3 VU; bakelite; panel type; mfr code 82386, part no. N535VU	5-63
5MP1		SHAFT: brass, bright alloy plated; 0.249 in. dia, 2.1875 in. lg; mfr code 13499, part no. 544-6081-002	
5MP2		SHAFT: same as 5MP1	
5MP3		COUPLING, INSULATED: brass end fittings, nylon center block; 7/16 in. dia by 1-1/32 in. lg o/a; mfr code 13499, part no. 015-0900-00	
5MP4		COUPLING, INSULATED: same as 5MP3	
5O1		KNOB: setscrew type; 11/16 in. max od by 13/32 in. thk; black body; mfr code 13499, part no. 281-0294-00	5-11
5O2		KNOB: same as 5O1	5-11
5O3		KNOB: same as 5O1	5-11
5O4		KNOB: setscrew type; black body; 11/16 in. dia, 13/32 in. thk; mfr code 72512, part no. 1450W	5-11
5R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF473K	5-63
5R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF393K	5-63
5R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF333K	5-63
5R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF391K	5-63
5R5		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF183K	5-63
5R6		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF104K	5-63
5R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF223K	5-63
5R8		RESISTOR, FIXED, COMPOSITION: same as 5R1	5-63
5R9		RESISTOR, FIXED, COMPOSITION: same as 5R6	5-63
5R10		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF274K	5-63
5R11		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF473K	5-63
5R12		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF823K	5-63
5R13		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF220K	5-63
5R14		RESISTOR, FIXED, COMPOSITION: same as 5R5	5-63
5R15		RESISTOR, FIXED, COMPOSITION: same as 5R4	5-63
5R16		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF184K	5-63
5R17		RESISTOR, FIXED, COMPOSITION: same as 5R12	5-63
5R18		RESISTOR, VARIABLE, COMPOSITION: 250,000 ohms $\pm 20\%$ , 1 w; mfr code 71450, part no. JH21376	5-63 & 5-11
5R19		RESISTOR, VARIABLE, COMPOSITION: 100,000 ohms $\pm 20\%$ , 1 w; mfr code 71450, part no. JA21068	5-11
5R20		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF821K	5-63
5R21		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF150K	5-63

TABLE 6-2. (Continued)

## CONVERTER -MONITOR, CV-730/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
5R22		RESISTOR, FIXED, FILM: MIL type RN65B8250F	5-63
5R23		RESISTOR, FIXED, FILM: MIL type RN65B6491F	5-63
5R24		RESISTOR, FIXED, FILM: MIL type RN65B1332F	5-63
5R25		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF123K	5-63
5R26		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-63
5R27		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF682K	5-63
5R28		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF273K	5-63
5R29		RESISTOR, FIXED, FILM: MIL type RN65B4642F	5-63
5R30		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF680K	5-63
5S1		SWITCH, ROTARY: 4 sections, 4 positions, 3 throws; 11 moving contacts, 44 fixed contacts; 0.25 amp; mfr code 81716, part no. 195983F4	5-63 &
5S2		SWITCH, ROTARY: 2 circuit, 5 position, 1 section, 2 moving contacts, 12 fixed contacts; mfr code 81716, part no. 195982F1	5-11 5-63 &
5S3		SWITCH, TOGGLE: MIL type MS35058-31	5-11
5S4		SWITCH, TOGGLE: MIL type MS35058-23	5-11
5T1		TRANSFORMER, AUDIO FREQUENCY: 10,000 ohms pri impedance, 150 ohms first secondary, 150 ohms second secondary impedance; mfr code 70674, part no. A10796	5-63
5TB1		TERMINAL BOARD: plastic; 1/16 in. thk; 1-1/2 in. by 3-1/2 in.; includes 11 terminals; mfr code 13499, part no. 545-3133-002	5-63
5V1		ELECTRON TUBE: glass envelope, twin triode; mfr code 49671, part no. 12AT7	5-11
5V2		ELECTRON TUBE: twin triode type; receiving tube; glass envelope; mfr code 49671, part no. 12AU7	5-11
5XDS1		LAMPHOLDER: mounting bracket for miniature bayonet base pilot light bulbs; mfr code 72765, part no. 50	5-11
5XDS2		LAMPHOLDER: same as 5XDS1	5-11
5XV1		SOCKET, ELECTRON TUBE: 9 pin miniature, top mtg; 500 v ac rms, 1 amp; mfr code 94991, part no. 8000-0315	5-63
5XV2		SOCKET, ELECTRON TUBE: same as 5XV1	5-63
5A1		OSCILLATOR, RADIO FREQUENCY: 300 kc frequency; 28 v dc, 130 v dc operating power; mfr code 13499, part no. 545-3124-00	5-62
5A1C1		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 1000 uuf -20% +80%, 500 v dc; mfr code 72982, part no. 327047X5T0102Z	5-62
5A1C2		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 5A1C1	5-62
5A1C3		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 5A1C1	5-62
5A1C4		CAPACITOR, FIXED, ELECTROLYTIC: 1 uf ±20%, 35 v dc; mfr code 56289, part no. 150D105X0035A2	5-62
5A1C5		CAPACITOR, FIXED, CERAMIC DIELECTRIC: MIL type CK62AW472M	5-62
5A1C6		CAPACITOR, FIXED, MICA DIELECTRIC: 2200 uuf ±2%, 500 v dc; mfr code 72136, part no. DM20F222G500WV	5-62
5A1C7		CAPACITOR, FIXED, MICA DIELECTRIC: 3900 uuf ±2%, 500 v dc; mfr code 72136, part no. DM20F392G500WV	5-62
5A1C8		CAPACITOR, FIXED, MICA DIELECTRIC: 56 uuf ±2%, 500 v dc; mfr code 72136, part no. DM15E560G500WV	5-62
5A1C9		CAPACITOR, FIXED, MICA DIELECTRIC: same as 5A1C6	5-62

TABLE 6-2. (Continued)

CONVERTER-MONITOR, CV-730/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
*5A1C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf ±1 uuf, 500 v dc; mfr code 71590, part no. DA931-001	5-62
*5A1C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf ±1 uuf, 500 v dc; mfr code 71590, part no. DA931-004	5-62
*5A1C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf ±1 uuf, 500 v dc; mfr code 71590, part no. DA931-003	5-62
*5A1C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf ±1 uuf, 500 v dc; mfr code 71590, part no. DA932-001	5-62
*5A1C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf ±1 uuf, 500 v dc; mfr code 71590, part no. DA933-010	5-62
*5A1C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf ±1 uuf, 500 v dc; mfr code 71590, part no. DA933-011	5-62
*5A1C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf ±1.0 uuf, 500 v dc; mfr code 71590, part no. DA933-012	5-62
*5A1C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf ±1.0 uuf, 500 v dc; mfr code 71590, part no. DA933-013	5-62
*5A1C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50 uuf ±1 uuf, 500 v dc; mfr code 71590, part no. DA933-027	5-62
5A1C11		CAPACITOR, VARIABLE, AIR DIELECTRIC: 5 uuf min to 50 uuf max, 600 v rms ac, 60 cps; mfr code 80583, part no. 36818-18	5-62
5A1CR1		SEMICONDUCTOR DEVICE, DIODE: germanium; mfr code 73293, part no. 1N67A	5-62
5A1L1		COIL, RADIO FREQUENCY: 165 turns, universal wound type, 3 pis, 100 mh nom inductance; mfr code 13499, part no. 545-3143-003	5-62
5A1Q1		TRANSISTOR: germanium; mfr code 79089, part no. 2N274	5-62
5A1R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF683K	5-62
5A1R2		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF682K	5-62
5A1R3		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF223K	5-62
5A1R4		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF103K	5-62
5A1R5		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF123K	5-62
5A1R6		RESISTOR, FIXED, COMPOSITION: same as 5A1R2	5-62
5A1R7		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF153K	5-62
5A1TB1		PRINTED CIRCUIT BOARD: plastic, copper clad; 1.796 in. by 3 in.; mfr code 13499, part no. 545-3139-004	5-62
5A1Z1		FREQUENCY DIVIDER SUBASSEMBLY: c/o 5A1C4, 5A1C5, 5A1C6, 5A1C7, 5A1C8, 5A1C9, 5A1CR1, 5A1L1, 5A1Q1, 5A1R1, 5A1R2, 5A1R3, 5A1R4, 5A1R5, 5A1R6, 5A1R7 and 5A1TB1; mfr code 13499, part no. 545-3140-004	5-62

AMPLIFIER-CONTROL, AM-2062/URC

UNIT 6		AMPLIFIER-CONTROL, AM-2062/URC, CHASSIS: 28 v dc operating voltage; USB, LSB, and microphone inputs; USB line, LSB line, headphones, and speaker outputs 7 in. by 7 in. by 19 in.; mfr code 13499, part no. 522-0963-00	
6C22A&B		CAPACITOR, FIXED, ELECTROLYTIC: dual section; 550 uf -10% +100%, 50 v dc each section; mfr code 56289, part no. D28454	5-64 & 5-65
6C23		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 0.02 uf -20% +100%, 500 v dc; mfr code 72982, part no. 841011W5V0203Z	5-65
*Chosen per operational requirements			



TABLE 6-2. (Continued)

## AMPLIFIER-CONTROL, AM-2062/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
6E1		TERMINAL, STUD: brass; 0.250 in. hex, 0.632 in. lg; mfr code 92825, part no. 2A1DB12	
6E2		TERMINAL, STUD: same as 6E1	
6E3		TERMINAL, STUD: same as 6E1	
6J1		CONNECTOR, RECEPTACLE, ELECTRICAL: 6 female contacts; 5 amps; straight; mfr code 81312, part no. K6S	5-64 &
6J2 thru 6J4 6J5		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 6J1	5-65 5-64 &
6J6		CONNECTOR, RECEPTACLE, ELECTRICAL: 2 rd female contacts; socket insert; straight shape; mfr code 02660, part no. 80PC2F	5-65 5-64
6J7		JACK, TELEPHONE: MIL type JJ034	5-64
6J8		CONNECTOR, RECEPTACLE, ELECTRICAL: MIL type UG1094U	5-65
6J9		CONNECTOR, RECEPTACLE, ELECTRICAL: 16 female contacts, 5 amp; mfr code 02660, part no. 26-4401-16S	5-65
6K1		CONNECTOR, RECEPTACLE, ELECTRICAL: 16 female contacts; 5 amp; mfr code 02660, part no. 26-4403-16S	5-65
6L1		RELAY, ARMATURE: 1 c contact arrangement; 115 v ac, 1 amp resistive current rating, 28 v dc, 1 amp resistive current rating; 1 inductive winding, 900 ohms dc resistance, 28 v operating voltage; mfr code 78277, part no. 93550	5-64
6L2		REACTOR: 1 coil, 0.09 henry inductance, 655 ma dc current rating, 3 ohms dc resistance; mfr code 97965, part no. 25048	5-64
6MP1		REACTOR: same as 6L1	5-65
6O1		SHAFT, SWITCH: cres, passivate finish; 0.249 in. dia, 2-7/8 in. lg; mfr code 13499, part no. 543-3047-002	
6O2		KNOB: setscrew type; black phenolic body; 11/16 in. dia, 0.843 in. lg; mfr code 13499, part no. 547-1380-002	
6R1A&B		KNOB: setscrew type, rd shape; phenolic body; 0.343 in. dia, 0.406 in. thk o/a dim.; mfr code 72512, part no. 1450W	
6R2A&B		RESISTOR, VARIABLE, COMPOSITION: 2 section; 15,000 ohms $\pm 20\%$ , 1/4 w one section, 3000 ohms $\pm 20\%$ , 1/4 w other section; mfr code 71450, part no. KS22938	5-64 &
6R3		RESISTOR, VARIABLE, COMPOSITION: same as 6R1A&B	5-65 5-64 &
6R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF151K	5-65
6R5		RESISTOR, FIXED, COMPOSITION: same as 6R3	5-65
6R6		RESISTOR, FIXED, COMPOSITION: same as 6R3	5-65
6R7		RESISTOR, FIXED, COMPOSITION: same as 6R3	5-65
6R8		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF272K	5-65
6R9		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF391K	5-65
6R10A&B		RESISTOR, FIXED, COMPOSITION: same as 6R8	5-65
6R11		RESISTOR, VARIABLE, COMPOSITION: same as 6R1A&B	5-64
6R12		RESISTOR, FIXED, COMPOSITION: same as 6R3	5-64
6R13		RESISTOR, FIXED, COMPOSITION: same as 6R3	5-64
6R14		NOT USED	
6R15		RESISTOR, FIXED, COMPOSITION: same as 6R3	5-65
		RESISTOR, FIXED, COMPOSITION: same as 6R3	5-65

TABLE 6-2. (Continued)

## AMPLIFIER-CONTROL, AM-2062/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
6R16A, B&C		ATTENUATOR, VARIABLE: 600 ohms $\pm 20\%$ input and output; 1000 cps frequency response; 0 to 56 db range; continuously variable; mfr code 01121, part no. JJJ68227	5-64 & 5-65
6R17		RESISTOR, FIXED, FILM: MIL type RN65B3010F	5-65
6R18		RESISTOR, FIXED, FILM: same as 6R17	5-65
6R19		RESISTOR, FIXED, FILM: same as 6R17	5-65
6R20		RESISTOR, FIXED, FILM: same as 6R17	5-65
6R21A, B&C		ATTENUATOR, VARIABLE: same as 6R16A,B&C	5-64 & 5-65
6R22		RESISTOR, FIXED, FILM: same as 6R17	5-65
6R23		RESISTOR, FIXED, FILM: same as 6R17	5-65
6R24		RESISTOR, FIXED, FILM: same as 6R17	5-65
6R25		RESISTOR, FIXED, FILM: same as 6R17	5-65
6R26		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF561K	5-65
6R27		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF121K	5-65
6R28		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF102K	5-65
6S1		SWITCH, ROTARY: 3 sections; 9 moving, 36 fixed contacts, 9 poles, 2 throws; ac dc, 230 v, 0.25 amp; mfr code 81716, part no. 185924F3	5-65
6T1		TRANSFORMER, AUDIO FREQUENCY: 600 ohms split primary; 600 ohms secondary; mfr code 73386, part no. 25763	5-64 & 5-65
6T2		TRANSFORMER, AUDIO FREQUENCY: 600 ohms center tapped primary; 150 ohms secondary; mfr code 97965, part no. 28218	5-64 & 5-65
6T3		TRANSFORMER, AUDIO FREQUENCY: same as 6T2	5-64 & 5-65
6T4		TRANSFORMER, AUDIO FREQUENCY: same as 6T1	5-64 & 5-65
6T5		TRANSFORMER, AUDIO FREQUENCY: same as 6T1	5-64 & 5-65
6T6		TRANSFORMER, AUDIO FREQUENCY: plate coupling type; 10,000 ohms primary, 600 ohms center tapped, 135 ohms center tapped, secondary; mfr code 70674, part no. A9771	5-64 & 5-65
6T7		TRANSFORMER, AUDIO FREQUENCY: 50 ohms primary, 600 ohms, 4 ohms secondary; mfr code 97965, part no. 28130	
6A1		AMPLIFIER-CONTROL AM-2062/URC, LINE AND MICROPHONE AMPLIFIER 356C-1: line or mike amplifier, 28 v dc operating voltage; mfr code 13499, part no. 522-0395-003	
6A1C101		CAPACITOR, FIXED, ELECTROLYTIC: 10 uf -15% +50%, 25 v dc; mfr code 21520, part no. PP10B25A2	5-66
6A1C102		CAPACITOR, FIXED, ELECTROLYTIC: 25 v dc working; 50 uf; mfr code 37942, part no. 20-40355	5-67
6A1C103		CAPACITOR, FIXED, ELECTROLYTIC: 20.0 uf -15% +50%, 10 v dc; mfr code 21520, part no. PP20B10A2	5-66
6A1C104		CAPACITOR, FIXED, ELECTROLYTIC: same as 6A1C102	5-68

TABLE 6-2. (Continued)

## AMPLIFIER-CONTROL, AM-2062/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
6A1C105		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 50,000 uuf -20% +50%, 30 v dc; mfr code 00656, part no. 913-3103-00	5-66
6A1Q101		TRANSISTOR: germanium; mfr code 07688, JETEC type 2N44	5-66
6A1Q102		TRANSISTOR: germanium hermetically sealed; mfr code 07688, JETEC type 2N158A	5-66
6A1R101		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF563K	5-66
6A1R102		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF333K	5-66
6A1R103		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF472K	5-66
6A1R104		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF682K	5-66
6A1R105		RESISTOR, FIXED, COMPOSITION: same as 6A1R103	5-66
6A1R106		RESISTOR, FIXED, WIREWOUND: 150 ohms $\pm$ 3%, 2 w; mfr code 91637, part no. RSM2-150R0G	5-66
6A1R107		NOT USED	
6A1R108		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF101J	5-66
6A1R109		RESISTOR, VARIABLE, COMPOSITION: 100 ohms, $\pm$ 20%, 1/2 w; mfr code 71450, part no. FS19299	5-66
6A1R110		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF334K	5-66
6A1T101		TRANSFORMER, AUDIO FREQUENCY: plate coupling type; 50,000 ohms, 4 ma primary dc resistance, 600 ohms secondary; 300 to 3000 cps operating peak frequency; mfr code 88063, part no. 94-0293-00	5-66
6A1T102		TRANSFORMER, AUDIO FREQUENCY: plate coupling type, 100 ohms, 100 ma dc primary, dc resistance, 500 ohms secondary; 300 to 3000 cps frequency range; mfr code 97965, part no. 21603A	5-66
6A1TB101		TERMINAL BOARD: copper clad epoxy; 1/16 in. by 2-47/64 in. by 3-3/8 in.; includes 8 terminals and 21 eyelets; mfr code 13499, part no. 541-6523-002	
6A1XQ101		SOCKET, ELECTRON TUBE: snap in, 3 contact transistor socket; mfr code 91662, part no. 786BC	5-67
6A1Z101		AMPLIFIER SUBASSEMBLY: c/o 3 capacitors, 2 transformers, 8 resistors, terminal board, wire and hardware; mfr code 13499, part no. 541-1505-002	
6A2		AMPLIFIER-CONTROL AM-2062/URC, LINE AND MICROPHONE AMPLIFIER 356C-1: same as 6A1	
6A3		AMPLIFIER-CONTROL AM-2062/URC, LINE AND MICROPHONE AMPLIFIER 346C-1: same as 6A1	
6A4		AMPLIFIER, AUDIO FREQUENCY 356D-1: 2 w power output; 27.5 v dc operating power; 300 to 3000 cps freq; 500 ohms impedance; 1.921 in. by 2.923 in. by 3.437 in. o/a dim.; mfr code 13499, part no. 522-0388-003	
6A4C201		CAPACITOR, FIXED, ELECTROLYTIC: 50 uf -10% +200%, 25 v dc; mfr code 37942, part no. 20-40355	5-68
6A4E201		CLIP, ELECTRICAL: ferrule type; accommodates 1/4 in. fuse; Herculoy #418, silver plate finish; mfr code 71400, part no. 4254	
6A4F201		FUSE, CARTRIDGE: MIL type F02A250V1AS	5-69
6A4P201		CONNECTOR, PLUG, ELECTRICAL: printed circuit plug feedthru, p/o amplifier module, built in	
6A4Q201		TRANSISTOR: mfr code 07688, JETEC type 2N158A	5-68
6A4Q202		TRANSISTOR: same as 6A4Q201	5-68
6A4R201		RESISTOR, FIXED, WIREWOUND: MIL type RU3B1R8J	5-68
6A4R202		RESISTOR, FIXED, WIREWOUND: same as 6A4R201	5-68
6A4R203		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF222K	5-68
6A4R204		RESISTOR, FIXED, COMPOSITION: same as 6A4R203	5-68

TABLE 6-2. (Continued)

AMPLIFIER-CONTROL, AM-2062/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
6A4R205		RESISTOR, VARIABLE, COMPOSITION: 1000 ohms $\pm 10\%$ , 1w; mfr code 71450, part no. JA20169	5-68 & 5-69
6A4T201		TRANSFORMER, AUDIO FREQUENCY: 300 to 3000 cps; 1 primary, 500 ohms; 2 secondary each 40 ohms; mfr code 96256, part no. T50232	5-68
6A4Z201		AMPLIFIER SUBASSEMBLY: c/o 1 board, 1 transformer, 1 capacitor, 5 resistors and hardware; mfr code 13499, part no. 541-6541-002	

AMPLIFIER-CONTROL, AM-2062A/URC

Unit 7		AMPLIFIER-CONTROL AM-2062A/URC: 500 ohms input, 3 to 4 and 500 to 600 ohms output impedance; 15 db and 40 db voltage gain; 30 v dc; 6-7/8 in. by 7 in. by 19 in.; mfr code 13499, part no. 522-2505-004	
7C1 thru 7C21 7C22A & B		NOT USED  CAPACITOR, FIXED, ELECTROLYTIC: dual section; 550 uf -10%, +100%, 50 v dc each section; mfr code 56289, part no. D28454	5-70 & 5-71
7E1		TERMINAL STUD: brass; 0.250 in. hex, 0.632 in. lg; mfr code 92825, part no. 2A1DB12	
7E2		TERMINAL, STUD: same as 7E1	
7E3		TERMINAL, STUD: same as 7E1	
7J1		CONNECTOR, RECEPTACLE, ELECTRICAL: 6 female contacts, 5 amp, straight; mfr code 81312, part no. K6S	5-70 & 5-71
7J2		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 7J1	5-70 & 5-71
7J3		NOT USED	
7J4		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 7J1	5-70 & 5-71
7J5		NOT USED	
7J6		JACK, TELEPHONE: MIL type JJ034	5-70
7J7		CONNECTOR, RECEPTACLE, ELECTRICAL: MIL type UG1094U	5-71
7J8		CONNECTOR, RECEPTACLE, ELECTRICAL: 16 female contacts; 5 amp; mfr code 02660, part no. 26-4401-16S	5-71
7J9		CONNECTOR, RECEPTACLE, ELECTRICAL: 16 female contacts; 5 amp; mfr code 02660, part no. 26-4403-16S	5-71
7L1		REACTOR: 1 coil, 0.09 henry inductance, 665 ma dc current rating, 3 ohms dc resistance; mfr code 97965, part no. 25048	5-70
7L2		REACTOR: same as 7L1	5-71
7MP1		SHAFT LOCK, ELECTRONIC COMPONENT: brass, nickel plated; 0.250 in. dia of shaft, 3/8-32 thd; mfr code 76487, part no. 10061	
7O1		KNOB: setscrew type; black phenolic body; 11/16 in. dia, 0.843 in. lg; mfr code 13499, part no. 547-1380-002	
7O2		KNOB: setscrew type, rd shape; phenolic body; 0.343 in. dia; 0.406 in. thk o/a dim.; mfr code 72512, part no. 1450W	
7R1A & B		RESISTOR, VARIABLE, COMPOSITION: 2 sections; 15,000 ohms $\pm 20\%$ , 1/4 w one section, 3000 ohms $\pm 20\%$ , 1/4 w other section; mfr code 71450, part no. KS22938	5-70 & 5-71

TABLE 6-2. (Continued)

## AMPLIFIER-CONTROL, AM-2062A/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
7R2A & B		RESISTOR, VARIABLE, COMPOSITION: same as 7R1A & B	5-70 & 5-71
7R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF151K	5-71
7R4		RESISTOR, FIXED, COMPOSITION: same as 7R3	5-71
7R5		RESISTOR, FIXED, COMPOSITION: same as 7R3	5-71
7R6		RESISTOR, FIXED, COMPOSITION: same as 7R3	5-71
7R7		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF272K	5-71
7R8		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF391K	5-71
7R9		NOT USED	
7R10A & B		RESISTOR, VARIABLE, COMPOSITION: same as 7R1A & B	5-70
7R11		RESISTOR, FIXED, COMPOSITION: same as 7R3	5-70
7R12		RESISTOR, FIXED, COMPOSITION: same as 7R3	5-70
7R13		NOT USED	
7R14		RESISTOR, FIXED, COMPOSITION: same as 7R3	5-71
7R15		RESISTOR, FIXED, COMPOSITION: same as 7R3	5-71
7R16A, B & C		ATTENUATOR, VARIABLE: 600 ohms $\pm 20\%$ input and output; 1000 cps freq response; 0 to 56 db range; continuously variable; mfr code 01121, part no. JJJ68227	5-70 & 5-71
7R17		RESISTOR, FIXED, FILM: MIL type RN65B3010F	5-71
7R18		RESISTOR, FIXED, FILM: same as 7R17	5-71
7R19		RESISTOR, FIXED, FILM: same as 7R17	5-71
7R20		RESISTOR, FIXED, FILM: same as 7R17	5-71
7R21A, B & C		ATTENUATOR, VARIABLE: same as 7R16A, B & C	5-70 & 5-71
7R22		RESISTOR, FIXED, FILM: same as 7R17	5-71
7R23		RESISTOR, FIXED, FILM: same as 7R17	5-71
7R24		RESISTOR, FIXED, FILM: same as 7R17	5-71
7R25		RESISTOR, FIXED, FILM: same as 7R17	5-71
7R26		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF561K	5-71
7R27		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF102K	5-71
7S1		SWITCH, ROTARY: 3 sections; 9 moving, 36 fixed contacts, 9 pole, 2 throws; ac dc, 230 v, 0.25 amp; mfr code 81716, part no. 185924F3	5-71
7T1		TRANSFORMER, AUDIO FREQUENCY: 600 ohms split primary, 600 ohms secondary; mfr code 73386, part no. 25763	5-70 & 5-71
7T2		TRANSFORMER, AUDIO FREQUENCY: 600 ohms center tapped primary; 150 ohms secondary; mfr code 97965, part no. 28218	5-70 & 5-71
7T3		TRANSFORMER, AUDIO FREQUENCY: same as 7T2	5-70 & 5-71
7T4		TRANSFORMER, AUDIO FREQUENCY: same as 7T1	5-70 & 5-71
7T5		TRANSFORMER, AUDIO FREQUENCY: same as 7T1	5-70 & 5-71

TABLE 6-2. (Continued)

## AMPLIFIER-CONTROL, AM-2062A/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
7T6 7T7		NOT USED TRANSFORMER, AUDIO FREQUENCY: 50 ohms pri, 600 ohms, 4 ohms sec; mfr code 97965, part no. 28130	5-70 & 5-71
7A1		AMPLIFIER, AUDIO FREQUENCY AM-3198/URC: +13 dbm max w power output, adjustable to -7 dbm with internal gain control, +51 dbm max power at compression threshold; +22 to -30 v dc; 300 cps to 3000 cps frequency range; 150/600 ohms CT; integral loudspeaker not included; 2 in. by 3 in. by 3.025 in. o/a dim.; mfr code 13499, part no. 528-0324-004	
7A1C1		CAPACITOR, FIXED, ELECTROLYTIC: 33 uf ±20%, 10 v dc; mfr code 56289, part no. 150D336X0010B2	5-72
7A1C2		CAPACITOR, FIXED, ELECTROLYTIC: 100 uf ±20%, 10 v dc; mfr code 56289, part no. 150D107X0010R2	5-72
7A1C3		CAPACITOR, FIXED, ELECTROLYTIC: same as 7A1C2	5-72
7A1C4		CAPACITOR, FIXED, ELECTROLYTIC: same as 7A1C2	5-72
7A1C5		CAPACITOR, FIXED, ELECTROLYTIC: 60 uf ±20%, 6 v dc; mfr code 56289, part no. 150D606X0006B2	5-72
7A1C6		CAPACITOR, FIXED, ELECTROLYTIC: same as 7A1C5	5-72
7A1C7		CAPACITOR, FIXED, ELECTROLYTIC: same as 7A1C1	5-72
7A1C8		CAPACITOR, FIXED, ELECTROLYTIC: same as 7A1C2	5-72
7A1C9		CAPACITOR, FIXED, ELECTROLYTIC: same as 7A1C1	5-72
7A1C10		CAPACITOR, FIXED, ELECTROLYTIC: same as 7A1C1	5-72
7A1C11		CAPACITOR, FIXED, ELECTROLYTIC: 0.022 uf ±20%, 35 v dc; mfr code 56289, part no. 150D223X0035A2	5-73
7A1C12		CAPACITOR, FIXED, ELECTROLYTIC: same as 7A1C11	5-73
7A1C13		CAPACITOR, FIXED, ELECTROLYTIC: 68 uf ±20%, 15 v dc; mfr code 56289, part no. 150D686X0015R2	
7A1C14		CAPACITOR, FIXED, ELECTROLYTIC: same as 7A1C1	5-73
7A1C15		CAPACITOR, FIXED, ELECTROLYTIC: same as 7A1C1	5-73
7A1C16		CAPACITOR, FIXED, ELECTROLYTIC: same as 7A1C5	5-73
7A1C17		CAPACITOR, FIXED, ELECTROLYTIC: 150 uf ±20%, 15 v dc; mfr code 56289, part no. 150D157X0015S2	5-73
7A1CR1		SEMICONDUCTOR DEVICE, DIODE: silicon; mfr code 03877, part no. 1N816	5-73
7A1CR2		SEMICONDUCTOR DEVICE, DIODE: same as 7A1CR1	5-72
7A1CR3		SEMICONDUCTOR DEVICE, DIODE: same as 7A1CR1	5-72
7A1CR4		SEMICONDUCTOR DEVICE, DIODE: same as 7A1CR1	5-72
7A1CR5		SEMICONDUCTOR DEVICE, DIODE: same as 7A1CR1	5-72
7A1CR6		SEMICONDUCTOR DEVICE, DIODE: same as 7A1CR1	5-72
7A1CR7		SEMICONDUCTOR DEVICE, DIODE: MIL type 1N270	5-73
7A1CR8		SEMICONDUCTOR DEVICE, DIODE: same as 7A1CR7	5-73
7A1CR9		SEMICONDUCTOR DEVICE, DIODE: silicon, hermetically sealed; mfr code 80211, part no. 1-5M13ZR	5-73
7A1E1		PRINTED CIRCUIT BOARD: plastic; 0.062 in. by 2.734 in. by 2.937 in. o/a dim.; incl 14 terminals and 52 tubelets; mfr code 13499, part no. 549-3267-003	
7A1E2		PRINTED CIRCUIT BOARD: plastic; 0.062 in. by 2.734 in. by 3.375 in. o/a dim.; incl 17 terminals and 56 tubelets; mfr code 13499, part no. 549-3275-004	
7A1J1		JACK, TIP: miniature self-sealing for use with 0.080 diameter plugs; teflon insulation; 5.5 amp; continuous duty cycle; mfr code 98291, part no. SKT5BCWHITE	
7A1J2		JACK, TIP: same as 7A1J1	

TABLE 6-2. (Continued)

## AMPLIFIER-CONTROL, AM-2062A/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
7A1Q1		TRANSISTOR: MIL type 2N526	5-72
7A1Q2		TRANSISTOR: same as 7A1Q1	5-72
7A1Q3		TRANSISTOR: MIL type 2N1039	5-73
7A1Q4		TRANSISTOR: same as 7A1Q1	5-73
7A1Q5		TRANSISTOR: same as 7A1Q1	5-73
7A1Q6		TRANSISTOR: same as 7A1Q1	5-73
7A1R1		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF102K	5-72
7A1R2		RESISTOR, FIXED, COMPOSITION: same as 7A1R1	5-72
7A1R3		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF151K	5-72
7A1R4		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF821K	5-72
7A1R5		RESISTOR, FIXED, COMPOSITION: same as 7A1R4	5-72
7A1R6		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF681K	5-72
7A1R7		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF471K	5-72
7A1R8		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF391K	5-72
7A1R9		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF152K	5-72
7A1R10		RESISTOR, VARIABLE, COMPOSITION: 10,000 ohms $\pm 20\%$ , 0.25 w; mfr code 01121, part no. FP103M	5-73
7A1R11		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF223K	5-72
7A1R12		RESISTOR, FIXED, FILM: MIL type RN60B4642F	5-73
7A1R13		RESISTOR, FIXED, COMPOSITION: same as 7A1R1	5-73
7A1R14		RESISTOR, FIXED, FILM: MIL type RN60B14R7F	5-73
7A1R15		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF101K	5-73
7A1R16		RESISTOR, FIXED, COMPOSITION: same as 7A1R1	5-73
7A1R17		RESISTOR, FIXED, COMPOSITION: same as 7A1R4	5-73
7A1R18		RESISTOR, FIXED, COMPOSITION: same as 7A1R1	5-73
7A1R19		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF222K	5-73
7A1R20		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF392J	5-73
7A1R21		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF153K	5-73
7A1R22		RESISTOR, FIXED, WIREWOUND: MIL type RW69V221	5-73
7A1R23		RESISTOR, FIXED, COMPOSITION: same as 7A1R11	5-73
7A1R24		RESISTOR, FIXED, COMPOSITION: MIL type RC07GF103K	5-73
7A1RT1		RESISTOR, THERMAL: 1000 ohms at 25°C; 1800 ohms at 25°C; designed for ac, dc; mfr code 10646, part no. 997F17	5-73
7A1RT2		RESISTOR, THERMAL: 10,000 ohms $\pm 10\%$ , 1/2 w; mfr code 10646, part no. 997F14	5-73
7A1RT3		RESISTOR, THERMAL: 4000 ohms $\pm 10\%$ , 0.5 w; mfr code 10646 part no. 997F22	5-72
7A1RT4		RESISTOR, THERMAL: 500 ohms $\pm 10\%$ , 1/2 w; mfr code 10646, part no. 997F20	5-72
7A1T1		TRANSFORMER, AUDIO FREQUENCY: 1500 ohms, CT primary; 600 ohms, CT secondary, 200 cps to 10,000 cps frequency response; continuous duty cycle; mfr code 80223, part no. BH635	
7A1T2		TRANSFORMER, AUDIO FREQUENCY: 1000 ohms $\pm 10\%$ , 12 ma primary; 600 ohms, CT 1 ma secondary; 300 cps to 4000 cps frequency response; continuous duty cycle; mfr code 70674, part no. A12856	5-73
7A2		AMPLIFIER, AUDIO FREQUENCY AM-3198/URC: same as 7A1	

TABLE 6-2. (Continued)

## AMPLIFIER-CONTROL, AM-2062A/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
7A3		AMPLIFIER, AUDIO FREQUENCY 356D-1: 2 w power output; 27.5 v dc operating power; 300 to 3000 cps freq; 500 ohms impedance; 1.921 in. by 2.923 in. by 3.437 in. o/a dim.; mfr code 13499, part no. 522-0388-003	5-74
7A3C201		CAPACITOR, FIXED, ELECTROLYTIC: 50 uf -10% +200%, 25 v dc; mfr code 37942, part no. 20-40355	
7A3E201		CLIP, ELECTRICAL: ferrule type; accommodates 1/4 in. fuse; Herculoy #418, silver plate finish; mfr code 71400, part no. 4254	5-74 & 5-75
7A3F201		FUSE, CARTRIDGE: MIL type F02A250V1AS	
7A3P201		CONNECTOR, PLUG, ELECTRICAL: printed circuit plug feedthru, p/o amplifier module, built in	
7A3Q201		TRANSISTOR: mfr code 07688, JETEC type 2N158A	5-74
7A3Q202		TRANSISTOR: same as 7A3Q201	5-74
7A3R201		RESISTOR, FIXED, WIREWOUND: MIL type RU3BIR8J	5-74
7A3R202		RESISTOR, FIXED, WIREWOUND: same as 7A3R201	5-74
7A3R203		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF222K	5-74
7A3R204		RESISTOR, FIXED, COMPOSITION: same as 7A3R203	5-74
7A3R205		RESISTOR, VARIABLE, COMPOSITION: 1000 ohms $\pm$ 10%, 1 w; mfr code 71450, part no. JA21069	5-74 & 5-75
7A3T201		TRANSFORMER, AUDIO FREQUENCY: 300 to 3000 cps; 1 primary, 500 ohms; 2 secondary each 40 ohms; mfr code 96256, part no. T50232	5-74

## COMPARATOR, SIGNAL, CM-126/UR

Unit 8		FREQUENCY COMPARATOR 54Q-1: operating frequencies of 1 kc and 100 kc; operating voltages 6.3 v ac, 103 v kc; mfr code 13499, part no. 522-1074-00	
8C1		CAPACITOR, FIXED, CERAMIC DIELECTRIC: MIL type CK63AW103M	5-77
8C2		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 8C1	
8C3		CAPACITOR, FIXED, PAPER DIELECTRIC: 0.15 uf $\pm$ 20%, 300 v dc; mfr code 56289, part no. 196P15403S4	5-77
8C4		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 0.02 uf -20% +100%, 500 v dc; mfr code 72982, part no. 881011W5V0203Z	5-77
8E1 thru 8E5 8E6		NOT USED	
8E7		SHIELD, ELECTRON TUBE: accommodates RETMA tube envelope style T-5-1/2, 1-7/8 in. lg, straight cylinder shape w/flared end, open top; mfr code 13499, part no. 541-6551-003	
8E8		SHIELD, ELECTRON TUBE: brass; accommodates RETMA tube envelope style T-5-1/2, 2-3/8 in. lg; straight cylinder shaped w/flared end, open top; 0.810 in. h by 0.930 in. w by 2-1/4 in. lg o/a dim.; mfr code 13499, part no. 541-6552-003	
		INSERT, ELECTRON TUBE SHIELD: copper, silver plated; lusterless black finish; 0.0015 in. thk by 0.060 in. h by 1 in. w by 2.312 in. lg o/a dim.; mfr code 13499, part no. 541-6518-002	



TABLE 6-2. (Continued)

## COMPARATOR, SIGNAL, CM-126/UR

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
8E9		INSERT, ELECTRON TUBE SHIELD: copper, silver plated; lusterless black finish; 0.0015 in. thk by 0.061 in. h by 1.500 in. w by 2.312 in. lg o/a dim.; mfr code 13499 part no. 541-6519-002	
8E10		TERMINAL, STUD: insulated; brass, silver plated; 0.250 in. hex by 0.788 in. lg; mfr code 92825, part no. 2B1DB12	
8E11 thru 8E14 8E15		TERMINAL, STUD: same as 8E10	
8E16		TERMINAL, STUD: insulated; brass, silver plated; 0.250 in. hex by 0.632 in. lg o/a; mfr code 92825 part no. 2A1DB12	
8J1		CONNECTOR, RECEPTACLE, ELECTRICAL: 1 female contact, 50 ohms; straight; mfr code 80058, type UG1094U	5-77
8J2		CONNECTOR, RECEPTACLE, ELECTRICAL: same as 8J1	5-77
8J3		JACK, TIP: standard phone tip contact element accommodated; nonprecious metal, precious metal plated; mfr code 98291, part no. SKT1	5-76 & 5-77
8J4		CONNECTOR, RECEPTACLE, ELECTRICAL: 16 female contacts; 5 amp at 600 v dc; mfr code 02660, part no. 26-4405-16S	5-77
8M1		AMMETER: dc, linear, 100-0-100 ua cw w/ 40 scale division; mfr code 13499, part no. 458-0108-00	5-76
8O1		KNOB: setscrew type; 11/16 in. max od by 13/32 in. thk; black body; mfr code 13499, part no. 281-0294-00	5-76
8O2		KNOB: setscrew type, black body; 11/16 in. dia, 13/32 in. thk; mfr code 72512, part no. 1450W	5-76
8O3		KNOB: same as 8O2	5-76
8R1		RESISTOR, FIXED, FILM: MIL type RN80B1151F	5-77
8R2		RESISTOR, VARIABLE, COMPOSITION: 1,000,000 ohms $\pm 20\%$ , 1 w; mfr code 71450, part no. KB22199	5-76
8R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF105K	5-77
8R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF101K	5-77
8R5		RESISTOR, FIXED, FILM: MIL type RN65B6811F	5-77
8R6		RESISTOR, FIXED, FILM: MIL type RN65B1002F	5-77
8R7		RESISTOR, FIXED, FILM: MIL type RN65B1471F	5-77
8R8		RESISTOR, VARIABLE, COMPOSITION: 2500 ohms $\pm 20\%$ , 1 w; mfr code 71450, part no. KB22200	5-76
8R9		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF563K	5-77
8R10		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF681K	5-77
8S1		SWITCH, ROTARY: 3 sections, S1A, S1B, S1C; 9 moving, 36 fixed contacts, 9 pole, 2 throws; ac dc, 230 v, 0.25 amp; mfr code 81716, part no. 185924F3	5-76 & 5-77
8T1		TRANSFORMER, AUDIO FREQUENCY: 600 ohms $\pm 10\%$ pri, CT; 0 amp; 400 to 3000 cps; 600 ohms secondary; 0 amp; repeat coil application; mfr code 73386, part no. 25763	5-76 & 5-77
8V1		ELECTRON TUBE: glass envelope; mfr code 49671, part no. 3B2	5-76
8V2		ELECTRON TUBE: glass envelope; pentagrid converter; mfr code 49671, part no. 6BE6	5-76
8XV1		SOCKET, ELECTRON TUBE: MIL type TS102P01	5-77
8XV2		SOCKET, ELECTRON TUBE: same as 8XV1	5-77

TABLE 6-2. (Continued)

## CONTROL-POWER SUPPLY, C-2691/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
Unit 9		HANDSET ADAPTER: operating voltages 115/230 v ac; supplies power for handset and remote control boxes; mfr code 13499, part no. 543-6094-00	
9C1		CAPACITOR, FIXED, ELECTROLYTIC: 50 v dc; 2000 uf -10% +150%; metal case; uninsulated; 2 in. dia by 4-1/8 in. lg; mfr code 56289, part no. D26275	5-80 & 5-81
9C2		CAPACITOR, FIXED, ELECTROLYTIC: same as 9C1	5-80 & 5-81
9C3		CAPACITOR, FIXED, ELECTROLYTIC: 25 v dc; 100 uf, -15% +100%; mfr code 37942, part no. TC2501	5-81
9CR1		SEMICONDUCTOR DEVICE, DIODE: silicon; hermetically sealed; mfr code 07688, JETEC type 1N1095	5-81
9CR2		SEMICONDUCTOR DEVICE, DIODE: same as 9CR1	5-81
9CR3		SEMICONDUCTOR DEVICE, DIODE: same as 9CR1	5-81
9CR4		SEMICONDUCTOR DEVICE, DIODE: same as 9CR1	5-81
9J1		CONNECTOR, RECEPTACLE, ELECTRICAL: MIL type AN3102A14S5S	5-81
9J2		CONNECTOR, RECEPTACLE, ELECTRICAL: 1 female contact, 50 ohms; straight shape; mfr code 80058, type UG1094U	5-81
9J3		CONNECTOR, RECEPTACLE, ELECTRICAL: 16 female contacts, 5 amp at 600 v dc; straight shape; mfr code 02660, part no. 26-4402-16S	5-81
9K1		RELAY, ARMATURE: contact arrangement, L-1C, coil resistance 165 ohms, 13.0 v dc, nom; mfr code 04221, part no. 40-3587	5-81
9L1		REACTOR: fixed inductance type; 1 coil, 0.04 hy, 1.0 amp dc, 1 ohm, 1500 v rms; 2-1/16 in. by 2-5/16 in. by 2-1/2 in.; mfr code 70674, part no. A8344	5-80 & 5-81
9R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF271K	5-81
9R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF681K	5-81
9R3		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF181K	5-81
9R4		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF331K	5-81
9R5		RESISTOR, FIXED, WIREWOUND: MIL type RW29V2R5	5-81
9S1		SWITCH, ROTARY: 2 sections, 2 positions, 2 throws, 6 moving contacts, 18 fixed contacts; mfr code 13499, part no. 259-0886-00	5-80 & 5-81
9T1		TRANSFORMER, POWER STEP-DOWN: hermetically sealed, primary windings 115 v and 230 v ac, 48 to 62 cps, single phase, secondary winding 12.6 v, 1.5 amp, CT; mfr code 97965, part no. 16842	5-80 & 5-81
9T2		TRANSFORMER, AUDIO FREQUENCY: input type, primary impedance 35 ohms, secondary impedance 600 ohms, tapped at 200 ohms, 100 ma primary zero secondary, hermetically sealed; mfr code 80694, part no. CBUH6051	5-80 & 5-81
9T3		TRANSFORMER: pri 600 ohms; CT; sec 600 ohms; 500 rms; 300 to 10,000 cps; hermetically sealed; mfr code 88063, part no. 94-0730-00	5-81

TABLE 6-2. (Continued)

HANDSET AND CORD, H-169/U

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
Unit 10		DYNAMIC HANDSET: dynamic type; incl handle, switch, cordset, dynamic receiver, dynamic noise cancelling microphone; incorporates a transistor amplifier; mfr code 82872, part no. 10385	
10HT1		EARPHONE ELEMENT: dynamic type; 600 ohms; 2 clip type terminals; 2.125 in. dia by 1.406 in. lg o/a dim.; mfr code 82872, part no. 10379	5-86
10MK1		MICROPHONE ELEMENT: 30 ohms impedance, 13.5 v polarized 300 to 6000 cps; 2.171 in. dia by 2.500 in. lg o/a dim.; 2 clip type terminals; mfr code 82872, part no. 29020	5-86
10S1		SWITCH, PUSH: IF contact arrangement; 0.625 in. by 0.671 in. by 2.859 in. o/a dim.; plunger w/button type actuator, 0.265 in. lg; 3 solder lug type terminals; flange mtd; mfr code 82872, part no. 10060	5-86
10W1		CABLE: 0.625 in. dia; thd one end w/1/2-24NS-2A thd; includes spring; mfr code 82872, part no. 22140- (incl 9W1H1 and 9W1P1)	5-86
10W1H1		CLAMP, CABLE: AN3057-6 (p/o 9W1)	
10W1P1		CONNECTOR, PLUG, ELECTRICAL: AN type AN-3106-14S-5P (p/o 9W1)	5-86

POWER SUPPLY, PP-2154/U

Unit 11		LOW-VOLTAGE POWER SUPPLY 429B-1: supplies output voltages of; 250 v dc, 130 v dc, 28 v dc at 1.5 amp, 28 v dc at 500 ma, 28 v dc at 180 ma, -90 v dc, 12.6 v dc; 5-1/8 in. by 7 in. by 18-7/8 in.; mfr code 13499, part no. 522-0862-003	
11C1A&B		CAPACITOR, FIXED, ELECTROLYTIC: 2 sections; 40 uf -15% +100%, 450 v dc, each section; mfr code 56289, part no. EL240	5-84
11C2A&B		CAPACITOR, FIXED, ELECTROLYTIC: same as 11C1A&B	5-84
11C3		CAPACITOR, FIXED, ELECTROLYTIC: 1170 uf +100% -10%, 50 v dc; mfr code 56289, part no. D27150	5-84
11C4		CAPACITOR, FIXED, ELECTROLYTIC: 2 sections; 550 uf -10% +100%, 50 v dc, both sections; mfr code 56289, part no. D28407	5-84
11C5A&B		CAPACITOR, FIXED, ELECTROLYTIC: 2 sections; 50 uf -10% +100%, 200v dc; both sections; mfr code 56289, part no. D27153	5-84
11C6		CAPACITOR, FIXED, ELECTROLYTIC: 100 uf -10% +100%, 100 v dc; mfr code 56289, part no. D28452	5-84
11CR1		SEMICONDUCTOR DEVICE, DIODE: mfr code 07688, JETEC type 1N1095	5-84
11CR2		SEMICONDUCTOR DEVICE, DIODE: same as 11CR1	5-84
thru			
11CR5			
11CR6		SEMICONDUCTOR DEVICE, DIODE: mfr code 07688, JETEC type 1N1086	5-84
11CR7		SEMICONDUCTOR DEVICE, DIODE: same as 11CR6	5-84
11CR8		SEMICONDUCTOR DEVICE, DIODE: same as 11CR1	5-84
11CR9		SEMICONDUCTOR DEVICE, DIODE: mfr code 07688, JETEC type 1N1361A	5-84
11DS1		LENS, INDICATOR LIGHT: 9/16 in. by 21/32 in. by 5/8 in.; 9/16-27 thd; red; mfr code 13499, part no. 262-2160-00	5-82
11E1		TERMINAL LUG: rd tongue shape; 3/32 in. dia wire accommodation; 0.018 in. by 5/16 in. by 23/32 in.; mfr code 13499, part no. 505-5038-001	
11F1		FUSE, CARTRIDGE: MIL type F02A250V3AS	5-82
11I1		LAMP, INCANDESCENT: miniature bayonet base; T-3-1/4 pilot light bulb; 6.3 v, 0.150 amp; mfr code 24446, part no. 47	

TABLE 6-2. (Continued)

POWER SUPPLY, PP-2154/U

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
11J1		CONNECTOR, RECEPTACLE, ELECTRICAL: low loss plastic dielectric; straight shape; 16 female contacts; 5 amp at 600 v dc; mfr code 02660, part no. 26-4402-16S	5-83 & 5-84
11J2		CONNECTOR, RECEPTACLE, ELECTRICAL: low loss plastic dielectric; 16 female contacts; 5 amp at 600 v dc; straight shape; mfr code 02660; part no. 26-4404-16S	5-83 & 5-84
11L1		REACTOR: 10 henrys rated at 10 v rms, 60 cps; 60 ma dc current rating; 250 ohms dc resistance; continuous duty cycle; mfr code 97965, part no. 17257A	5-84
11L2		REACTOR: fixed inductance type; 4.0 henrys, 0.35 amp, 55 ohms, ±10%; mfr code 70674, part no. A8482	5-84
11L3		REACTOR: 0.07 henrys rated at 10 v rms, 60 cps; 0.75 ma dc current rating, 3 ohms dc resistance, continuous duty cycle; mfr code 97965, part no. 26582	5-84
11R1		RESISTOR, FIXED, WIREWOUND: MIL type RW30V8R0	5-84
11R2		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF101K	5-84
11R3		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF104K	5-84
11R4		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF333K	5-84
11R5		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF101K	5-84
11R6		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF562K	5-84
11R7		RESISTOR, FIXED, COMPOSITION: MIL type RC42GF123K	5-84
11R8		RESISTOR, FIXED, COMPOSITION: MIL type RC32GF123K	5-84
11R9		RESISTOR, FIXED, WIREWOUND: MIL type RW29V310	5-84
11R10		RESISTOR, FIXED, WIREWOUND: same as 11R9	5-84
11S1		SWITCH, TOGGLE: MIL type MS35059-23	5-82
11T1		TRANSFORMER, POWER, STEP-DOWN AND STEP-UP: 115 v, 230 v primary, 130 v, 0.025 amp, 70 v, 1.5 amp CT, 12.4 v, 5 amp CT, 230 v, 0.300 amp CT secondary; mfr code 97965, part no. 26545	5-82
11TB1		TERMINAL BOARD: plastic; includes 14 double end solder lug type terminals; 0.093 in. by 2.125 in. by 4.375 in.; mfr code 13499, part no. 542-7386-002	
11TB2		TERMINAL BOARD: plastic glass cloth epoxy resin; 16 solder lug type terminals, 4 fuse clips, 4 tubular rivets; 1/8 in. by 1-7/32 in. by 5-7/8 in.; mfr code 13499, part no. 542-7388-002	
11TB3		PLATE, ADAPTER: aluminum, chromate dipped finish; 0.063 in. by 4-31/32 in. by 5-27/32 in.; mfr code 13499, part no. 544-2709-003	
11XF1		FUSEHOLDER: 250 v, 20 amp; accom cartridge type fuse; 0.812 in. by 0.812 in. by 2.875 in.; mfr code 71400, part no. HKLJRZ	
11XI1		LAMPHOLDER: used with T-3-1/4 miniature base bulb; mfg hole size 5/64 in. dia.; mfr code 72619, part no. 81410-1PC	5-82

COOLER, AIR, ELECTRONIC EQUIPMENT, HD-347/U

Unit 12		BLOWER 199G-3: output capacity of 125 cfm at 1.83 inches water gauge pressure; 8-7/8 in. by 11-1/4 in. by 19 in.; mfr code 13499, part no. 522-0983-005	
12B1		FAN, CENTRIFUGAL: single unit operating on a common shaft; direct drive connection; 0.288 hp; 115, 230 v ac; 50 to 60 cps, single phase; 3300 rpm; mfr code 82877, part no. A013354	5-85
12C1		CAPACITOR, FIXED, PAPER DIELECTRIC: 2.5 uf +11% -0%, 390 v ac; mfr code 56289, part no. P50922	5-85

TABLE 6-2. (Continued)

COOLER, AIR, ELECTRONIC EQUIPMENT, HD-347/U

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
12F1 OR 12F1 12J1		FUSE, CARTRIDGE: MIL type F02B125V2AS	5-85
12O1		FUSE, CARTRIDGE: MIL type F02B250V1AS	5-85
12S1		CONNECTOR, RECEPTACLE, ELECTRICAL: 8 contacts, female insert, copper contacts; 5 amp; mfr code 02660, part no. 26-4401-8S	5-85
12TB1		FILTER, AIR CONDITIONING: polyethylene medium; steel frame; 117 cfm capacity; 1 in. by 6 in. by 14 in.; mfr code 13499, part no. 009-0001-00	5-85
12XF1		SWITCH, PRESSURE: 15 amp inductive at 230 v ac; 5.8 in. dia, 3-33/64 in. h; mfr code 76255, part no. 141-1	5-85
		TERMINAL, BOARD: molded bakelite board; 2-5/8 in. by 7/8 in. by 13/32 in. incl 6 brass screw terminals; barrier type; mfr code 75382, part no. 600-6	5-85
		FUSEHOLDER: 250 v, 20 amp; accommodates cartridge type fuse; 0.812 in. by 0.812 in. by 2.875 in.; mfr code 71400, part no. HKLJRZ	

POWER SUPPLY, PP-2153/U

Unit 13		HIGH-VOLTAGE POWER SUPPLY 428B-1: supplies output voltages ac; 2000 v dc at 600 ma, 400 v dc at 80 ma; 7 in. by 15-3/4 in. by 19 in.; mfr code 13499, part no. 522-0863-006	
13C1		CAPACITOR, FIXED, PAPER DIELECTRIC: 4 uf ±20%, 3000 v dc; mfr code 56289, part no. P51008	5-77
13C2		CAPACITOR, FIXED, PAPER DIELECTRIC: same as 13C1	5-79
13C3		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 0.005 uf ±20%, 6000 v dc; mfr code 72982, part no. 3878-013SW5V0-502M	
13C4		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 13C3	
13C5		CAPACITOR, FIXED, CERAMIC DIELECTRIC: MIL type CK61AW222M	
13C6 thru 13C48		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as 13C5	
13CR1		SEMICONDUCTOR DEVICE, DIODE: mfr code 07688, JETEC type 1N1095	5-79
13CR2		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR3		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR4		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR5		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR6		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR7		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR8		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR9		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR10		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR11		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR12		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR13		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR14		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR15		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR16		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR17		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR18		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR19		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79

TABLE 6-2. (Continued)

POWER SUPPLY, PP-2153/U

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
13CR20		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR21		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR22		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR23		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR24		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR25		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR26		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR27		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR28		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR29		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR30		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR31		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR32		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR33		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR34		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR35		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR36		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR37		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR38		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR39		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR40		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR41		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR42		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR43		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13CR44		SEMICONDUCTOR DEVICE, DIODE: same as 13CR1	5-79
13DS1		LAMP, INCANDESCENT: 120 v, 6 w; double contact bayonet candelabra base; mfr code 24446, part no. 6S6DC120V	5-79
13DS2		LENS, INDICATOR LIGHT: red glass, frosted back; brass, polish chrome lensholder; mfr code 72619, part no. 51-111	
13E1		CLIP, ELECTRICAL: ferrule type; phosphor bronze; accommodates 3/8 in. and 13/32 in. dia fuse; mfr code 75915, part no. 105001	
13E2		CLIP, ELECTRICAL: same as 13E1	
13F1		FUSE, CARTRIDGE: MIL type F03A250V10AS	5-79
OR			
13F1		FUSE, CARTRIDGE: MIL type F03A250V15AS	
13F2		FUSE, CARTRIDGE: MIL type F02A250V3-8AS	5-79
13F3		FUSE, CARTRIDGE: MIL type F03A250V8A8	5-79
13J1		CONNECTOR, RECEPTACLE, ELECTRICAL: MIL type UG931U	5-78 & 5-79
13K1		RELAY, ARMATURE: dpst; 15 amp noninductive at 115 v ac; 115 v ac coil voltage; mfr code 77342, part no. PR7AY	5-79
13L1		REACTOR: 30 hy min at 25 ma dc, 7.2 hy min at 500 ma dc; 250 v rms; 60 cps; 1000 ohms dc resistance; continuous duty cycle; mfr code 80008, part no. E10270	5-79
13L2		REACTOR: 12 henries at 10 v rms, 60 cps; 0.105 amp dc; 204 ohms dc resistance; continuous duty cycle; mfr code 97965, part no. 12103	5-79

TABLE 6-2. (Continued)

## POWER SUPPLY, PP-2153/U

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
13MP1		ADAPTER, SWITCH ACTUATOR: stainless steel with bronze roller; rectangular; 13/64 in. by 25/32 in. by 3/4 in.; two 2-56 rd head screws supplied for mtg; mfr code 91929, part no. JS5 (p/o 13S2)	
13MP2		SHAFT, SWITCH: stainless steel; 0.250 in. dia by 6-1/8 in. lg; undercut; mfr code 13499, part no. 543-1446-002 (p/o 13S2)	
13MP3		SPRING, HELICAL, COMPRESSION: steel wire; 17/64 in. id, 0.319 in. od, 1-1/8 in. lg; mfr code 13499, part no. 543-1448-002 (p/o 13S2)	
13MP4		SPRING, HELICAL, COMPRESSION: same as 13MP3 (p/o 13S2)	
13R1		RESISTOR, FIXED, WIREWOUND: 22,000 ohms $\pm 10\%$ , 25 w; mfr code 44655, part no. 2K40F22KPORM10PCT	5-79
13R2		RESISTOR, FIXED, WIREWOUND: MIL type RW35V183	5-79
13R3		RESISTOR, FIXED, WIREWOUND: same as 13R2	5-79
13R4		RESISTOR, FIXED, WIREWOUND: same as 13R2	5-79
13S1		SWITCH, SENSITIVE: spdt; 250 v ac at 5 amp resistive current rating, 30 v dc at 4 amp resistive current rating; mfr code 91929, part no. 11SM3T; p/o 13S2	5-79
13S2		SWITCH, PUSH: spdt; 28 v dc, 5 amp resistive; 3 amp inductive; 125/250 v ac, 60 cps, 5 amp resistive, 5 amp inductive; 4 oz operating force; 1 oz min release force; 0.020 max pretravel; 0.031 min overtravel; 0.004 max movement differential; 2.250 in. by 2.625 in. by 6.640 in. o/a dim.; mfr code 13499, part no. 543-1460-003; includes 13S1, 13MP1, 13MP2, 13MP3, and 13MP4	5-79
13T1		TRANSFORMER, POWER, STEP-UP: 115 v, 230 v, 50 to 60 cps primary; 460 v at 540 ma, 1825 v at 440 ma secondary; mfr code 80008, part no. E11953	5-79
13TB1		TERMINAL BOARD: phenolic; includes 10 screw-type terminals; 5-9/64 in. lg; mfr code 75382, part no. 601Y10M	5-78 & 5-79
13TB2		TERMINAL BOARD: glass epoxy resin; includes 25 solder lug type terminals and 90 ferrule clip type terminals; 0.125 in. by 3.750 in. by 16.000 in.; mfr code 13499, part no. 543-1465-004	
13XDS1		LIGHT, INDICATOR: double contact candelabra bayonet base bulb accommodated; 1-3/8 in. hex by 2-5/8 in. lg o/a; mfr code 72619, part no. 513502-1	
13XF1		FUSEHOLDER: 250 v, 20 amp; accommodates cartridge type fuse; 0.812 in. by 0.812 in. by 2.875 in.; mfr code 71400, part no. HKLJRZ	

## RACK, ELECTRICAL EQUIPMENT, MT-2092/U

Unit 14		RACK KIT: incl 2 channels, brackets, 1 duct plate, 30 washers, 18 screws, 4 nuts, mfr code 13499, part no. 544-9010-00	
14H1		WASHER, LOCK: mfr code 96906, MS type MS35338-84	
14H2		WASHER, LOCK: mfr code 96906, MS type MS35338-82	
14H3		WASHER, FLAT: stainless steel; 0.265 in. id, 0.625 in. od, 0.060 in. thk; mfr code 79807 to mfr code 13499, part no. 310-0050-00	
14H4		SCREW, MACHINE: stainless steel; standard trimmed hexagon head; 3/8-16 UNC-2A thd, 5/8 in. lg; mfr code 77250 to mfr code 13499, part 325-0124-00	
14H5		SCREW, MACHINE: mfr code 96906 MS type MS35216-70	
14H6		SCREW, MACHINE: mfr code 96906 MS type MS35200-71	

TABLE 6-2. (Continued)

## RACK, ELECTRICAL EQUIPMENT, MT-2092/U

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
14H7		NUT, PLAIN, HEXAGON: CRES; 1/4-20NC-2 thd, 7/16 in. hex by 3/16 in. h; mfr code 77250 to mfr code 13499, part no. 313-0082-00	
14MP1		CHANNEL, RIGHT HAND: aluminum; chromate dip finish; 1.093 in. by 6.009 in. by 70.125 in. o/a dim.; mfr code 13499, part no. 544-9014-004	
14MP2		CHANNEL, LEFT HAND: aluminum; chromate dip finish; 1.093 in. by 6.009 in. by 70.125 in. o/a dim.; mfr code 13499, part no. 544-9015-004	
14MP3		BRACKET, ANGLE: steel; 0.187 in. by 1.500 in. by 20.250 in. o/a dim.; mfr code 13499, part no. 544-9013-003	
14MP4		ANGLE BASE, CHANNEL: steel; 1.187 in. by 3.000 in. by 5.250 in. o/a dim.; mfr code 13499, part no. 545-3048-002	
14MP5		ANGLE, BASE, CHANNEL: same as 14MP4	
14MP6		ANGLE, TOP BRACE: steel; 1.875 in. by 3.750 in. by 19.750 in. o/a dim.; mfr code 13499, part no. 545-3049-002	
14MP7		PLATE, ANGLE, DUCT: mill steel, gray semigloss, 1/8 in. thk; 2-13/16 in. by 12 in.; mfr code 13499, part no. 544-9012-002	
14MP8		BASE, RACK: steel, gray semi-gloss; 3/8 in. thk; 17-1/2 in. by 20-1/2 in.; mfr code 13499, part no. 544-9007-004	

## KIT, AIR DUCT

Unit 15		KIT, AIR DUCT: incl 2 air ducts, 42 screws, 2 duct supports, 8 washers, 2 nuts, air duct cover, air duct transition, 8 air duct assys; mfr code 13499, part no. 544-9001-00	
15H1		SCREW TAPPING, THREAD FORMING: steel, Phillips stove truss head, 0.321 in. dia by 0.086 in. thk; screw size 6, 5/16 in. lg; mfr code 45722, part no. PK86XA6-5	
15H2		SCREW, MACHINE: mfr code 96906, MS type MS35217-55	
15H3		WASHER, FLAT: CRES; 0.203 in. id, 0.500 in. od, 0.060 in. thk; mfr code 79807 to mfr code 13499, part no. 310-0049-00	
15H4		NUT, SELF-LOCKING CLINCH: steel, cadmium plates; 10-32NC-3B thd, 0.344 in. lg; mfr code 72962, part no. F12NCFMA1-02	
15H5		SCREW, MACHINE: CRES; hex head; 8-32 NC-2 thd; 7/16 in. lg; mfr code 77250 to mfr code 13499, part no. 325-0080-00	
15H6		WASHER, FLAT: CRES; 0.172 in. id, 0.437 in. od, 0.036 in. thk; mfr code 79807 to mfr code 13499, part no. 310-0048-00	
15H7		WIRE: cres, passivate finish; 0.050 in. thk; 2-3/16 in. lg; mfr code 13499, part no. 542-3237-002	
15H8		SPRING, HELICAL, EXTENSION: steel, passivate finish; 34 turns, close wound, optional direction 0.022 in. dia; full rd hook ends; 0.265 in. od by 2.937 in. extended lg; mfr code 13499, part no. 542-3022-002	
15H9		WASHER, LOCK: MIL type MS35337-80	
15MP1		DUCT, AIR, FRONT: aluminum; 1-27/32 in. by 58-13/16 in.; mfr code 13499, part no. 544-9002-004	
15MP2		DUCT, AIR, REAR: aluminum; 1-27/32 in. by 58-13/16 in.; mfr code 13499, part no. 544-9003-004	
15MP3		SUPPORT, DUCT: steel, 10 GA USSR; 1-1/2 in. by 3-7/16 in.; mfr code 13499, part no. 541-8211-002	
15MP4		SUPPORT, DUCT: same as 15MP3	



TABLE 6-2. (Continued)

## KIT, AIR DUCT

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
15MP5		COVER, DUCT: steel; 0.625 in. by 2.015 in. by 8.015 in. o/a dim.; mfr code 13499, part no. 541-8253-003	
15MP6		TRANSITION, DUCT: steel; 4-1/4 in. by 4-1/2 in. by 8.036 in.; mfr code 13499, part no. 542-3299-004	
15MP7		DUCT, AIR: Neoprene; 1-3/8 in. by 2-1/4 in. by 2-7/8 in.; mfr code 13499, part no. 542-3233-002	
15MP8		ACTUATOR, AIR DUCT: aluminum; 1-15/16 in. dia by 1-15/16 in. lg o/a; mfr code 13499, part no. 542-3020-002	
15MP9		DUCT, AIR: neoprene; 1-3/4 in. id, by 2-7/8 in. od by 2.187 in. lg o/a; mfr code 13499, part no. 542-3234-002	
15MP10		ACTUATOR, AIR DUCT: aluminum; 1-15/16 in. dia by 2-3/4 in. lg o/a; mfr code 13499, part no. 542-3021-002	

## KIT, CABLE

Unit 16		CABLE KIT: incl 16 cable assemblies, 9 coaxial assemblies, 1 "T" connector, 1 cable clamp, 53 screws, fifty-two 1 in. posts, 26 cable brackets; mfr code 13499, part no. 544-9019-00	
16CP1		ADAPTER, CONNECTOR: 2 female and one male contact, 50 ohms, tee shape; 9/16 in. by 1-1/32 in. by 1-9/32 in.; mfr code 80058, type UG274BU	
16H1		CLAMP, LOOP: nylon; designed to hold 0.520 in. dia cable; 0.173 in. dia bolt hole for fastening; mfr code 09922, part no. HP8N	
16H2		SCREW, MACHINE: MS type MS35216-27	
16H3		SPACER, SLEEVE: aluminum, chromate dip; no. 8 screw size; 0.035 in. thk, 0.250 in. od, 1 in. lg o/a; mfr code 13499, part no. 541-6076-002	
16H4		SCREW, MACHINE: mfr code 96906 MS type MS35200-48	
16H5		TERMINAL, LUG: copper; for 16 to 14 wire range; #5 or #6 stud; 11/16 in. lg by 1/4 in. w; mfr code 00779, part no. 32442	
16H6		TERMINAL, LUG: copper; for 22 - 16 wire range, #5 or #6 stud, 9/32 in. w by 25/32 in. lg; mfr code 00779, part no. 31882	
16H7		INSULATION, SLEEVING, ELECTRICAL: transparent, 3/8 in. nom size; mfr code 13499, part no. 152-1757-00	
16W1		CABLE ASSEMBLY, RADIO FREQUENCY: coaxial, 50 ohms impedance stranded, 7 strands copper wire 0.089 dia overall, single braid no. 33 AWG, synthetic resin jacket, one round male contact connector mtg each end; mfr code 13499, part no. 544-9021-002; (incl 16WP1, 16WP2)	
16W1P1		CONNECTOR, PLUG, ELECTRICAL: 1 rd male contact; 50 ohms; straight; mfr code 80058, type UG594U	
16W1P2		CONNECTOR, PLUG, ELECTRICAL: same as 16W1P1	
16W2		CABLE ASSEMBLY, RADIO FREQUENCY: type RG-58C/U coaxial cable terminated ea end w/plug connector; 36 in. lg excl terminations; mfr code 13499, part no. 543-3440-002; (incl 16W2P1, 16W2P2)	
16W2P1		CONNECTOR, PLUG, ELECTRICAL: 1 male contact, 1 mating end; mfr code 80058, type UG88CU	
16W2P2		CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1	
16W3		CABLE ASSEMBLY: no. RG 58 c/o cable terminated ea end w/o male connector; mfr code 13499, part no. 546-3425-001; (incl 16W3P1, 16W3P2)	
16W3P1		CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1	

TABLE 6-2. (Continued)

KIT, CABLE

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
16W3P2 16W4		CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CABLE ASSEMBLY, RADIO FREQUENCY: type RG-58C/U cable, coaxial, terminated ea end w/ plug connector; 48 in. lg excl terminations; mfr code 13499, part no. 543-3442-002; (incl 16W4P1, 16W4P2)	
16W4P1 16W4P2 16W5		CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CABLE ASSEMBLY, RADIO FREQUENCY: same as 16W2; (incl 16W5P1, 16W5P2)	
16W5P1 16W5P2 16W6		CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CABLE ASSEMBLY, RADIO FREQUENCY: same as 16W2; (incl 16W6P1, 16W6P2)	
16W6P1 16W6P2 16W7		CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CABLE ASSEMBLY, RADIO FREQUENCY: same as 16W2; (incl 16W7P1, 16W7P2)	
16W7P1 16W7P2 16W8		CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CABLE ASSEMBLY, RADIO FREQUENCY: same as 16W2; (incl 16W8P1, 16W8P2)	
16W8P1 16W8P2 16W9		CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CABLE ASSEMBLY, RADIO FREQUENCY: type RG-59A/U coaxial cable terminated ea end w/plug connector; 84 in. lg excl terminations; mfr code 13499, part no. 543-3441-002; (incl 16W9P1, 16W9P2)	
16W9P1 16W9P2 16W10		CONNECTOR, PLUG, ELECTRICAL: 1 rd male contact, 5000 v dc, 5 amperes, straight shape; mfr code 80058, type UG932AU CONNECTOR, PLUG, ELECTRICAL: same as 16W9P1 CABLE ASSEMBLY: type RG-58C/U coaxial cable terminated each end w/plug connector; 25 in. lg excluding terminals; mfr code 13499, part no. 545-9120-002; (incl 16W10P1, 16W10P2)	
16W10P1 16W10P2 16W11		CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: 9 twisted pair, no. 22 AWG ea conductor; terminated one end w/terminal board, connector other end; 6.6 ft lg excl terminations; mfr code 13499, part no. 544-2578-002; (incl 16W11P1, 16W11TBA)	
16W11P1 16W11TBA		CONNECTOR, PLUG, ELECTRICAL: 16 male contacts; 5 amp; mfr code 02660, part no. 26-4501-16P TERMINAL BOARD, MOLDED: 4-40NC-2B x 3/16 in. deep aluminum inserts, (20) brass terminals equally spaced 0.032 in. thk by 0.257 in. w by 1.750 in. lg; Melamine mtg strip 0.500 in. thk by 0.875 in. w by 6.750 in. lg; mfr code 13499, part no. 543-2000-003	
16W12		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: 9 twisted pair, no. 22 AWG ea conductor; terminated one end w/terminal board, connector other end; 6.6 ft lg excl terminations; mfr code 13499, part no. 544-2580-002; (incl 16W12P1, 16W12TBB)	
16W12P1 16W12TBB		CONNECTOR, PLUG, ELECTRICAL: 16 male contacts; 5 amp at 600 v dc; mfr code 02660, part no. 26-4505-16P TERMINAL BOARD, MOLDED: same as 16W11TBA	

TABLE 6-2. (Continued)

KIT, CABLE

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
16W13		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: 9 twisted pair, no. 22 AWG ea conductor; terminated one end w/terminal board, connector other end; 6.6 ft lg excl terminations; mfr code 13499, part no. 544-2579-002; (incl 16W13P1, 16W13TBC)	
16W13P1		CONNECTOR, PLUG, ELECTRICAL: 16 male contacts, 5 amp; mfr code 02660, part no. 26-4503-16P	
16W13TBC		TERMINAL BOARD, MOLDED: same as 16W11TBA	
16W14		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: 18 conductors; terminated one end w/terminal board, other end w/connector; 74 in. lg excl terminations; mfr code 13499, part no. 544-9020-002; (incl 16W14P1, 16W14TBD)	
16W14P1		CONNECTOR, PLUG, ELECTRICAL: 24 male contacts; 5 amp; mfr code 02660, part no. 26-4501-24P	
16W14TBD		TERMINAL BOARD, MOLDED: same as 16W11TBA	
16W15		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: same as 16W12; (incl 16W15P1, 16W15TBE)	
16W15P1		CONNECTOR, PLUG, ELECTRICAL: same as 16W12P1	
16W15TBE		TERMINAL BOARD, MOLDED: same as 16W11TBA	
16W16		CABLE ASSEMBLY, SPECIAL PURPOSE ELECTRICAL: 9 twisted pair, no. 22 AWG ea conductor; terminated one end w/terminal board, connector other end; 6.6 ft lg excl terminations; mfr code 13499, part no. 544-2581-002; (incl 16W16P1, 16W16TBF)	
16W16P1		CONNECTOR, PLUG, ELECTRICAL: 16 male contacts; 5 amp at 600 v dc; mfr code 02660, part no. 26-4502-16P	
16W16TBF		TERMINAL BOARD, MOLDED: same as 16W11TBA	
16W17		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: same as 16W11; (incl 16W17P1, 16W17TBG)	
16W17P1		CONNECTOR, PLUG, ELECTRICAL: same as 16W11P1	
16W17TBG		TERMINAL BOARD, MOLDED: same as 16W11TBA	
16W18		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: same as 16W16; (incl 16W18P1, 16W18TBH)	
16W18P1		CONNECTOR, PLUG, ELECTRICAL: same as 16W16P1	
16W18TBH		TERMINAL BOARD, MOLDED: same as 16W11TBA	
16W19		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: same as 16W11; (incl 16W19P1, 16W19TBJ)	
16W19P1		CONNECTOR, PLUG, ELECTRICAL: same as 16W11P1	
16W19TBJ		TERMINAL BOARD, MOLDED: same as 16W11TBA	
16W20		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: same as 16W13; (incl 16W20P1, 16W20TBK)	
16W20P1		CONNECTOR, PLUG, ELECTRICAL: same as 16W13P1	
16W20TBK		TERMINAL BOARD, MOLDED: same as 16W11TBA	
16W21		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: 9 twisted pair, no. 22 AWG ea conductor terminated one end w/terminal board, connector other end; 6.6 ft lg excl terminations; mfr code 13499, part no. 544-2582-002; (incl 16W21P1, 16W21TBL)	
16W21P1		CONNECTOR, PLUG, ELECTRICAL: 16 male contacts; 5 amp at 600 v dc; mfr code 02660, part no. 26-4504-16P	
16W21TBL		TERMINAL BOARD, MOLDED: same as 16W11TBA	
16W22		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: same as 16W16; (incl 16W22P1, 16W22TBM)	

TABLE 6-2. (Continued)

KIT, CABLE

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
16W22P1 16W22TBM 16W23		CONNECTOR, PLUG, ELECTRICAL: same as 16W16P1 TERMINAL BOARD, MOLDED: same as 16W11TBA CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: same as 16W21; (incl 16W23P1, 16W23TEN)	
16W23P1 16W23TBN 16W24		CONNECTOR, PLUG, ELECTRICAL: same as 16W21P1 TERMINAL BOARD, MOLDED: same as 16W11TBA CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: same as 16W16; (incl 16W24P1, 16W24TBP)	
16W24P1 16W24TBP 16W25		CONNECTOR, PLUG, ELECTRICAL: same as 16W16P1 TERMINAL BOARD, MOLDED: same as 16W11TBA CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED: 18 conductors terminated, one end w/terminal board, other end w/6 terminal lugs; 80 in. lg, excl termination; mfr code 13499, part no. 544-2583-003	
16W25TBR 16W26		TERMINAL BOARD, MOLDED: same as 16W11TBA CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: 9 twisted pair, no. 22 AWG ea conductor; terminated one end w/terminal board, connector other end; 7.1 ft lg excl terminations; mfr code 13499, part no. 544-2577-002; (incl 16W26P1, 16W26TBS)	
16W26P1		CONNECTOR, PLUG, ELECTRICAL: 8 male contacts; 5 amp; mfr code 02660, part no. 26-4501-8P	
16W26TBS 16W27		TERMINAL BOARD, MOLDED: same as 16W11TBA CABLE ASSEMBLY: same as 16W10; (incl 16W27P1, 16W27P2)	
16W27P1 16W27P2		CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1 CONNECTOR, PLUG, ELECTRICAL: same as 16W2P1	

DUMMY LOAD, ELECTRICAL, DA-218/U

Unit 17		DUMMY LOAD, ELECTRICAL: 172J-1; 2 to 30 mc frequency range, 500 w, 50 ohms impedance, 1.3 to 1 swr; 2-11/16 in. by 2-7/8 in. by 20-7/8 in. o/a dim.; mfr code 13499, part no. 522-1741-00	
17E1		INSULATOR, STANDOFF: JAN type NS5W0104	5-87
17E2		INSULATOR, STANDOFF: same as 17E1	5-87
17E3		INSULATOR, STANDOFF: same as 17E1	5-87
17E4		INSULATOR, STANDOFF: same as 17E1	5-87
17H1		MOUNT STRAP: brass; 1/4 in. h; 1 in. by 2-1/16 in.; mfr code 13499, part no. 545-5930-002	5-87
17H2		CONTACT, ELECTRICAL: brass; alloy plated finish; 1.812 in. by 2 in. by 2.375 in. o/a dim.; mfr code 13499, part no. 545-5932-002	5-87
17H3		NUT, PLAIN, HEXAGON: aluminum, chromate dip; 6-32NC-2 thd, 5/16 in. w across flats, 1/2 in. h o/a; mfr code 13499, part no. 540-9448-003	5-87
17H4		NUT, PLAIN, HEXAGON: same as 17H3	5-87
17H5		NUT, PLAIN, HEXAGON: same as 17H3	5-87
17H6		NUT, PLAIN, HEXAGON: same as 17H3	5-87
17J1		CONNECTOR, RECEPTACLE, ELECTRICAL: 1 rd female contact; straight shape; 1 in. by 1 in. by 1.106 in. overall; mfr code 80058, type UG58AU	5-87
17MP1		CHASSIS, ELECTRICAL EQUIPMENT: aluminum, chromate dip; 1/16 in. thk; 2-3/4 in. by 20-7/8 in.; mfr code 13499, part no. 545-5935-004	5-87

TABLE 6-2. (Continued)

## DUMMY LOAD, ELECTRICAL, DA-218/U

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
17MP2		COVER, CHASSIS: aluminum, chromate dip; 0.040 in. thk; 2-5/8 in. by 2-25/32 in. by 19-1/2 in.; mfr code 13499, part no. 545-5933-003	5-87
17P1		CONNECTOR, PLUG, ELECTRICAL: 1 male contact, 1 mating end; teflon insulation; mfr code 80058, type UG21DU	
17P2		CONNECTOR, PLUG, ELECTRICAL: same as 17P1	
17R1		RESISTOR, FIXED, FILM: 50 ohms $\pm 10\%$ , 500 w; mfr code 13499, part no. 712-0052-00	5-87
17W1		CABLE, RADIO FREQUENCY: incl 3 ft coaxial cable, type RG 8A/U and two UG-21D/U connectors; mfr code 13499, part no. 545-5928-00; (incl 17P1 and 17P2)	

## SHIPBOARD MOUNTING KIT

Unit 18		SHIPBOARD MOUNTING KIT: incl 1 shockmount base, 1 shockmount stabilizer, 16 washers, 8 screws; mfr code 13499, part no. 545-3226-00	
18H1		WASHER, FLAT: stainless steel; 0.227 in. id, 0.500 in. od, 0.040 in. thk; mfr code 79807 to mfr code 13499, part no. 310-0167-00	
18H2		WASHER, LOCK: type 302 stainless steel; split helical ring; 0.221 in. id, 0.380 in. od, 0.056 in. thk; mfr code 79807 to mfr code 13499, part no. 310-0286-00	
18H3		SCREW, MACHINE: stainless steel; passivate finish; cross recessed pan head; 12(0.216) in. -24 NC-2A thd; 1/2 in. lg; mfr code 77250 to mfr code 13499, part no. 343-0247-00	
18MP1		BASE, MOUNTING, SHOCKMOUNT: material and finish per MIL-E-16400; 6.50 in. h by 18.875 in. w by 21.875 in. lg; mfr code 51116; part no. W664-3SA1	
18MP2		STABILIZER, INSTALLATION: 5-3/4 in. by 6-3/8 in. by 19-1/2 in.; mfr code 51116, part no. W664-3SA2	

## INSTALLATION KIT, ELECTRICAL EQUIPMENT, MK-446A/URC-32

E1		MOUNTING KIT, BULKHEAD, H-V POWER SUPPLY: c/o one r-f connector, 2 bracket assemblies, 1 bag; mfr code 13499, part no. 545-3225-00	
H1		STRIP, INSULATING: plastic, laminated paper base; 1/32 in. thk; 7/8 in. by 5-1/8 in.; mfr code 13499, part no. 544-9118-002	
H2		WASHER, FLAT: stainless steel; 0.147 in. id, 0.312 in. od, 0.032 in. thk; mfr code 79807 to mfr code 13499, part no. 310-0046-00	
H3		WASHER, LOCK: MS type MS35338-79	
H4		SCREW, MACHINE: MS type MS35216-25	
H5		SCREW, MACHINE: MS type MS35216-29	
H6		SCREW, MACHINE: MS type MS35216-13	
H7		NUT, PLAIN, HEXAGON: cres; 1/4 in. hex., 3/32 in. thk, 4-40 thd; mfr code 88044, type AN340C4	
H8		WASHER, LOCK: MS type MS35338-78	
		SCREW, MACHINE: brass, nickel plated; Phillips recessed pan head; 3-56UNF-2A thd; 3/16 in. lg; mfr code 77250 to mfr code 13499, part no. 343-1563-00	

TABLE 6-2. (Continued)

## INSTALLATION KIT, ELECTRICAL EQUIPMENT, MK-446A/URC-32

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
H9		WASHER, LOCK: silicon bronze, plain finish; 0.102 in. id, 0.198 in. od, 0.025 in. thk, 0.040 in. w; mfr code 79807 to mfr code 13499, part no. 310-0395-00	
H10		WASHER, LOCK: MIL type MS35337-80	
H11		SCREW, MACHINE: MS type MS35216-41	
H12		CLAMP, LOOP: nylon; accommodates 0.27 in. dia component; 0.38 in. w, 0.045 in. thk material; mfr code 09922, part no. HP4N	
H13		TERMINAL, LUG: bronze, tinned finish; w/locking device; 0.018 in. thk mfr portion, 0.218 in. h, 0.312 in. w, 0.640 in. lg o/a; mfr code 78189, part no. 2104-04-01	
H14		WASHER, FLAT: cres; 0.147 in. id, 0.375 in. od, 0.031 in. thk; mfr code 79807 to mfr code 13499, part no. 310-6360-00	
H15		NUT, SELF-LOCKING: stainless steel, 5/16 in. across flats, 7/64 in. thk, tap 6-32; mfr code 88044, type AN340C6	
H16		SCREW, MACHINE: MS type MS35200-27	
H17		SCREW, MACHINE: MS type MS35216-15	
H18		POST, SPACING: aluminum, chromate dipped finish; tapped 6-32 both ends; 0.3125 in. hex.; 1 in. lg o/a; mfr code 13499, part no. 540-9460-003	
J1		CONNECTOR, RECEPTACLE, ELECTRICAL: 1 rd female contact; straight; 1-3/8 in. lg; mfr code 80058, type UG496U	
J2		CONNECTOR, RECEPTACLE, ELECTRICAL: 1 female contact, 1 mating end; 5 amp; 50 ohms; mfr code 80058, type UG931U	
J3		CONNECTOR, RECEPTACLE, ELECTRICAL: 1 female contact, 1 mating end; plastic insulation; mfr code 94375, part no. 01375	
MP1		COVER, POWER SUPPLY: aluminum; marked "DANGER HIGH VOLTAGE"; 0.979 in. by 2.375 in. by 4 in. o/a dim.; mfr code 13499, part no. 543-1453-002	
MP2		BRACKET, TERMINAL BOARD, PRESSED: aluminum, chromate dip; 0.063 in. thk by 1-7/16 in. h by 5 in. w by 6-1/16 in. lg; incl 4 self-clinching nuts; mfr code 13499, part no. 545-3189-003	
MP3		BRACKET, POWER SUPPLY: steel, gray semiglass enamel; 0.134 in. thk by 3 in. h by 15-3/4 in. w by 20 in. lg; mfr code 13499, part no. 545-3187-004	
P1		CONNECTOR, RECEPTACLE, ELECTRICAL: 1 male contact, 1 mating end; plastic insulation; mfr code 80058; type UG925AU	
P2		CONNECTOR, RECEPTACLE, ELECTRICAL: same as P1	
P3		CONNECTOR, PLUG, ELECTRICAL: 1 male contact, 1 mating end; 5 amps, 50 ohms, straight shape; mfr code 80058, type UG932AU	
TB1		TERMINAL BOARD: phenolic; w/10 screw-type terminals; barrier type; 1/2 in. by 1-1/8 in. by 4-13/16 in.; mfr code 75173, part no. 10-141DP34-3 CABLE, RADIO FREQUENCY: type RG-598B/U Coaxial Cable; steel conductor, plastic insulation, copper shield, plastic jacket; 75 ohms impedance; 0.191 in. o/a dia; mfr code 80058; type RG59BU	

## REPLACEMENT MODULE KIT, MK-464A/URC

		REPLACEMENT MODULE KIT MK-464A/URC: incl 13 replacement modules for AN/URC-32, mfr code 13499, part no. 553-5858-00 FREQUENCY DIVIDER: 100 kc incoming freq, 1 & 4 kc resultant frequencies; 27.5 v dc; 2000 ohms input, 10,000 ohms output impedance; 1-1/2 in. by 4-1/2 in. by 4-1/2 in. o/a dim.; mfr code 13499, part no. 542-7697-004	
--	--	---	--

TABLE 6-2. (Continued)

## REPLACEMENT MODULE KIT, MK-464A/URC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
		<p>SMO: 27.5 v dc at 42 to 58 ma, filtered; 130 v dc at 43 ma, 28 v dc at 0 to 385 ma, 12.6 v ac at 950 ma, 115 v ac, 400 cps at 84 to 464 ma input, 2 v rms at 50 ohms output unfiltered; 4-1/2 in. by 7 in. by 9 in. approx o/a dim.; mfr code 13499, part no. 542-7791-005</p> <p>AMPLIFIER-OSCILLATOR: crystal controlled oscillator, keyed; 1.942 to 1.945 mc freq range, 1.942 mc, 1.943 mc, 1.944 mc, 1.945 mc freq of individual channels; 1 v rms output power amplifier, 2.397 to 2.4 mc freq range; 6.3 v ac, 400 cps, single phase operating power, 27.5 v dc; 1-1/2 in. by 4-1/2 in. by 4-3/4 in. o/a dim.; mfr code 13499, part no. 543-1501-004</p> <p>RF TUNER: 130 v dc, 6.3 v ac, 28 v dc, -90 v dc, 250 v dc operating voltage; 2 to 4 mc and 300 kc input frequency, 2 to 30 mc output frequency; mfr code 13499, part no. 546-2148-005</p> <p>OSCILLATOR, REFERENCE: rf aural output; 100 kc, 2.4 mc; +130 v dc, +28 v dc operating power; aluminum case, 2.937 in. by 4.427 in. by 4.471 in. o/a dim.; mfr code 13499, part no. 542-7729-004</p> <p>TGC: 1.25 v dc, 95 v dc, and 6.3 v ac inputs; 1.437 in. by 4.375 in. by 4.500 in. approx o/a dim.; mfr code 13499, part no. 543-5181-003</p> <p>USB-IF/AF: 300 to 3000 cps audio freq; 300 kc intermediate freq; 150 ohms output impedance; 1.437 in. by 4.437 in. by 4.625 in. approx o/a dim.; mfr code 13499, part no. 543-0275-005</p> <p>LSB-IF/AF: 300 to 3000 cps audio freq; 300 kc intermediate freq; 150 ohms output impedance; 1.437 in. by 4.437 in. by 4.625 in. approx o/a dim.; mfr code 13499, part no. 543-0274-005</p> <p>AM-IF/AF: 300 to 3000 cps audio freq; 300 kc intermediate freq; 150 ohms output impedance; 1.500 in. by 4.500 in. by 5 in. approx o/a dim.; mfr code 13499, part no. 543-0276-005</p> <p>CARRIER GENERATOR: 1 channel, 300 kc input freq for amplifier; 100 kc input freq, thru 300 kc output freq for freq multiplier; 6.3 v, 400 cps, single phase ac; 130 v dc; 1.437 in. by 4.437 in. by 4.500 in. approx o/a dim.; mfr code 13499, part no. 543-1500-004</p> <p>MODULATOR, BALANCED: 2 to 4 mv power output; 350 to 3000 cps freq response; 150 ohms input impedance; 2500 ohms output impedance; 1.437 in. by 4.375 in. by 4.812 in. o/a dim.; mfr code 13499, part no. 543-1351-004</p> <p>AMPLIFIER, AUDIO FREQUENCY AM-2062/URC: 27.5 v dc, 300 to 3000 cps frequency response; 100 ohms input impedance; 500 ohms output impedance; 1-1/2 in. by 2-15/16 in. by 3-7/16 in. o/a dim.; mfr code 13499, part no. 522-0395-003</p> <p>AMPLIFIER, AUDIO FREQUENCY 356D-1: 2 w power output; 27.5 v dc operating power; 300 to 3000 cycles operating freq range; one channel; 500 ohms channel impedance; 30 ohms output impedance; 1.921 in. by 2.923 in. by 3.437 in. o/a dim.; mfr code 13499, part no. 522-0388-003</p>	

## ISOLATION AMPLIFIER MODULE, AM-1785/GRC

		<p>FREQUENCY GENERATOR 786E-1, ISOLATION AMPLIFIER MODULE: 100 kc frequency input; 100 kc and 2.4 mc frequency outputs; 6.3 v ac, +28 v dc +28 v dc +130 v dc operating voltages; 2.937 in. by 4.427 in. by 4.846 in. o/a; mfr code 13499, part no. 543-6255-004</p>	
--	--	--	--

TABLE 6-2. (Continued)

## ISOLATION AMPLIFIER MODULE, AM-1785/GRC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
C1		CAPACITOR, FIXED, MICA DIELECTRIC: 470 uuf $\pm 2\%$ , 300 v dc; mfr code 72136, part no. CM15E471G	5-44
C2		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 0.02 uf +100% -20%, 500 v dc; mfr code 72962, part no. 84101W5V0203Z	5-44
C3		CAPACITOR, FIXED, CERAMIC DIELECTRIC: MIL type CK63AW103M	5-44
C4		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as C2	5-44
C5		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 8 uuf min to 75 uuf max, 350 v dc; mfr code 72982, part no. 557018U2P034R	5-44
C6		CAPACITOR, FIXED, MICA DIELECTRIC: 430 uuf $\pm 2\%$ , 300 v dc; mfr code 72136, part no. CM15E431G	5-44
C7		CAPACITOR, FIXED, MICA DIELECTRIC: MIL type CM35B472K	5-44
C8		CAPACITOR, FIXED, MICA DIELECTRIC: same as C7	5-44
C9		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as C3	5-44
C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as C3	5-44
C11		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: 5 uuf min to 37.5 uuf max, 350 v dc; mfr code 72982, part no. 557018C0P039R	5-44
C12		CAPACITOR, FIXED, MICA DIELECTRIC: 24 uuf $\pm 5\%$ , 500 v dc; mfr code 72136, part no. VCM15E240J	5-44
C13		CAPACITOR, FIXED, MICA DIELECTRIC: 150 uuf $\pm 2\%$ , 500 v dc; mfr code 72136, part no. VCM15E151G	5-44
C14		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as C3	5-44
C15		CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: same as C5	5-44
C16		CAPACITOR, FIXED, MICA DIELECTRIC: 39 uuf $\pm 2\%$ , 500 v dc; mfr code 72136, part no. VCM15E390G	5-44
C17		NOT USED	
C18		CAPACITOR, FIXED, MICA DIELECTRIC: 330 uuf $\pm 2\%$ , 500 v dc; mfr code 72136, part no. VCM15E331G	5-44
C19		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as C3	5-44
C20		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as C3	5-44
C21		CAPACITOR, FIXED, MICA DIELECTRIC: 100 uuf $\pm 2\%$ , 500 v dc; mfr code 72136, part no. VCM15E101G	5-44
E1		SHIELD, ELECTRON TUBE: accommodates RETMA tube envelope style T-5-1/2, 1-7/8 in. lg, straight cylinder shape w/flared end, open top; mfr code 13499, part no. 541-6551-003	
E2		SHIELD, ELECTRON TUBE: same as E1	
E3		SHIELD, ELECTRON TUBE: same as E1	
J1		JACK, TIP: accommodates std phone tip; 1250 v ac, 5 amps; mfr code 98291, part no. SKT2BC	5-44
J2		JACK, TIP: same as J1	5-44
J3		JACK, TIP: same as J1	5-44
J4		JACK, TIP: same as J1	5-44
J5		JACK, TIP: same as J1	5-44
L1		COIL, RADIO FREQUENCY: toroidal wound, 5.0 mh $\pm 1\%$ ; mfr code 05245, part no. T1521	5-44
L2		COIL, RADIO FREQUENCY: toroidal wound; 1.038 mh $\pm 2\%$ ; mfr code 82068, part no. S26760	5-44
L3		COIL, RADIO FREQUENCY: toroidal wound, 55 uh $\pm 10\%$ ; mfr code 82068, part no. S54992	5-44
R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF102K	5-44
R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF104K	5-44



TABLE 6-2. (Continued)

## ISOLATION AMPLIFIER MODULE, AM-1785/GRC

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF273K	5-44
R4		RESISTOR, FIXED, COMPOSITION: same as R2	5-44
R5		RESISTOR, FIXED, COMPOSITION: same as R1	5-44
R6		RESISTOR, FIXED, COMPOSITION: same as R2	5-44
R7		RESISTOR, FIXED, COMPOSITION: same as R2	5-44
R8		RESISTOR, FIXED, COMPOSITION: same as R1	5-44
R9		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF474K	5-44
R10		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF103K	5-44
V1		ELECTRON TUBE: pentode; mfr code 49671, part no. 6AU6	5-44
V2		ELECTRON TUBE: same as V1	5-44
V3		ELECTRON TUBE: same as V1	5-44
XV1		SOCKET, ELECTRON TUBE: 7 pin miniature, tap mtg; 500 v ac rms, 1 amp; mfr code 94990, part no. 8000-0316	5-44
XV2		SOCKET, ELECTRON TUBE: same as XV1	5-44
XV3		SOCKET, ELECTRON TUBE: same as XV1	5-44

## MAINTENANCE KIT, ELECTRICAL EQUIPMENT, MK-447/URC-32

AC		MAINTENANCE KIT: incl assorted tools, adapter, cables and tool box; mfr code 13499, part no. 543-8124-00	
Y		SCREWDRIVER, CROSS TIP: 2 cross recessed type, hardened alloy steel blade, wood handle; mfr code 03705, part no. 1202	5-1
Y		WRENCH, SOCKET HEAD SCREW: mfr code 08664, part no. S060CADORZNPL	5-1
Y		WRENCH, SOCKET HEAD SCREW: mfr code 08664, part no. S076-4CADORZNPL	5-1
Y		WRENCH, SOCKET HEAD SCREW: mfr code 08664, part no. S094CADORZNPL	5-1
Y		WRENCH, SOCKET HEAD SCREW: mfr code 08664, part no. S110CADORZNPL	5-1
W		GREASE: mfr code 73219, part no. LUBRIPL105 1X6	5-1
AA		SCREWDRIVER, CROSS TIP: #1 special, tempered alloy steel blade, plastic handle; Bonney to mfr code 13499, part no. 024-4557-00	5-1
AD		SCREWDRIVER, CROSS TIP: #3 recessed type, chrome vanadium steel blade, ambery1 handle; mfr code 79061, part no. P312	5-1
N		PLIERS: Crescent Tool Co. part no. Crestoloy #777-6	5-1
M		TOOL, SOLDERING AID: double ended tool, one end forked, opposite end pointed, 8 in. lg; mfr code 97966, part no. FH20A	5-1
L		CUTTERS: 5 in. diagonal; mfr code 79000, part no. 41-5	5-1
Z		SCREWDRIVER, CROSS TIP: special #0 recessed type hardened alloy steel blade, superloid handle; mfr code 03705, part no. 1300	5-1
AF		WASHER, FLAT: steel; Wrought Washer Co. to mfr code 13499, part no. 310-0165-00	5-1
AH		WASHER, LOCK: silicon bronze, type B spring temper; National Lock Washer to mfr code 13499, part no. 310-0399-00	5-1
AE		SCREW, MACHINE: stainless steel; Pheoll Mfr to mfr code 13499, part no. 343-0249-00	5-1
Q		ADAPTER, CONNECTOR: teflon; mfr code 80058, type UG201AU	5-1
O		ADAPTER, CONNECTOR: low loss plastic; mfr code 80058, type UG274BU	5-1
		HANDLE: soldering pencil handle and cord, plastic handle, rubber sleeve, cork bushing, 7 in. lg; Ungar Electric Tools, Inc. part no. 776	5-1

TABLE 6-2. (Continued)

MAINTENANCE KIT, ELECTRICAL EQUIPMENT, MK-447/URC-32

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
O		TIP, SOLDERING: replacement thread-in pencil tip for u/w Ungar no. 535 element; mfr code 78976, part no. 331	5-1
T		EXTRACTOR, ELECTRON TUBE: for use with Eimac type 3CX 100 A5 and 4CX250B or similar tubes; mfr code 06980, part no. SK604A	5-1
		HOLDER, BRISTO WRENCH: modified; mfr code 13499, part no. 507-6327-00	5-1
		WRENCH, SOCKET HEAD SCREW: Bristol Co. to mfr code 13499, part no. 024-0090-00	5-1
		SHAFT, WRENCH: special Bristol stainless steel; 5-1/2 in. lg; mfr code 13499, part no. 505-0800-002	5-1
		WRENCH, SOCKET: mfr code 13499, part no. 544-6032-002	5-1
B		BOX ASSEMBLY & TRAY STORAGE: incl doors, catches and hardware; mfr code 13499, part no. 544-9042-00	5-1
K		ADAPTER, CONNECTOR: mfr code 13499, part no. 544-9049-002	5-1
		PROD, TEST: mfr code 13499, part no. 544-9048-002	5-1
		RETAINER, ELECTRON SHIELD: brass; mfr code 13499, part no. 544-9046-002	5-1
AG		NUT, CAPTIVE: brass, QQ-B-626; 3/8 in. hex by 11/32 in. lg; mfr code 13499, part no. 544-9047-002	5-1
		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: mfr code 13499, part no. 544-9032-003, incl P1, P2	5-1
F		ADAPTER, PLUG, MOLDED: mfr code 13499, part no. 544-9033-003	5-1
		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: mfr code 13499, part no. 544-9028-003	5-1
		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: mfr code 13499, part no. 544-9029-003; incl P1, P2	5-1
E		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: mfr code 13499, part no. 544-9030-003; incl P1, P2	5-1
C		CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: mfr code 13499, part no. 544-9031-003; incl P1, P2	5-1
I		CABLE ASSEMBLY, RADIO FREQUENCY: mfr code 13499, part no. 544-9052-00	5-1
J		CABLE ASSEMBLY, RADIO FREQUENCY: mfr code 13499, part no. 544-9051-002	5-1
A		TOOL BOX: steel; 8-1/2 in. w by 20 in. lg; Kennedy Mfr Co. type K-20 (Mod) to mfr code 13499, part no. 021-0154-00	5-1
U		PLATE, COVER, TUNING: 5052-H-32 aluminum, QQ-A-318; 4.343 by 4.432; mfr code 13499, part no. 542-7757-003	5-1
V		LUBRICANT: MIL-L-7870A; mfr code 13499, part no. 544-9040-00	5-1
X		OILER: Hypo-oiler w/removable plastic reservoir; mfr code 13499, part no. 024-0248-00	5-1
O		ELEMENT, SOLDERING: replacement thread-in, 23-1/2 w element for u/w Ungar no. 776 handle and cord; mfr code 78976, part no. 535	5-1
AI		ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type, 1 working end; 0.062 in. by 0.127 in. size, slot type wrench; cres body, 4.125 in. lg o/a; mfr code 13499, part no. 545-7789-002	5-1

TABLE 6-2. (Continued)

## AMPLIFIER, ELECTRONIC CONTROL

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
		AMPLIFIER, ELECTRONIC CONTROL: 52 ohms input, 52 ohms output; 6.3 v ac, 60 cps, single phase 130 v dc; 1.437 in. by 4.437 in. by 4.812 in. o/a dim.; plug in mtg; mfr code 13499, part no. 543-2834-003	
C1		CAPACITOR, FIXED, ELECTROLYTIC: MIL type CL25BJ4R5UP3	5-58
C2		CAPACITOR, FIXED, ELECTROLYTIC: 33 uf $\pm 20\%$ , 10 v dc; mfr code 05397, part no. K33J10	5-58
C3		CAPACITOR, FIXED, ELECTROLYTIC: 2.5 uf -15%, +75%, 50 v dc; mfr code 56289, part no. 113D255C7050D1	5-58
C4		CAPACITOR, FIXED, ELECTROLYTIC: same as C3	5-58
C5		CAPACITOR, FIXED, ELECTROLYTIC: MIL type CL25BJ180UP3	5-58
C6		CAPACITOR, FIXED, ELECTROLYTIC: same as C1	5-58
C7		CAPACITOR, FIXED, ELECTROLYTIC: same as C2	5-58
C8		CAPACITOR, FIXED, ELECTROLYTIC: same as C3	5-58
C9		CAPACITOR, FIXED, ELECTROLYTIC: same as C3	5-58
C10		CAPACITOR, FIXED, CERAMIC DIELECTRIC: 20,000 uuf $\pm 20\%$ , 100 v dc at 85° C, 50 v dc at 125° C; mfr code 96095, part no. MC80V203AM	5-58
C11		CAPACITOR, FIXED, CERAMIC DIELECTRIC: same as C10	5-58
CR1		SEMICONDUCTOR DEVICE, DIODE: germanium, hermetically sealed; mfr code 97688, JETEC type 1N66	5-58
CR2		SEMICONDUCTOR DEVICE, DIODE: same as CR1	5-58
CR3		SEMICONDUCTOR DEVICE, DIODE: same as CR1	5-58
CR4		SEMICONDUCTOR DEVICE, DIODE: same as CR1	5-58
E1		SHIELD, ELECTRON TUBE: aluminum; straight cylinder shape, open top; 0.495 in. dia, 1.4375 in. lg o/a dim.; mfr code 13499, part no. 542-0375-002	
E2		INSERT, ELECTRON TUBE SHIELD: copper; 0.060 in. by 1.0625 in. by 1.250 in. o/a; mfr code 13499, part no. 542-0371-002	
E3		PRINTED CIRCUIT BOARD: copperclad glass epoxy; 0.062 in. by 3.000 in. by 4.640 in.; incl 27 terminals and hardware; mfr code 13499, part no. 543-3234-005	
J1		NOT USED	
J2		NOT USED	
J3		JACK, TIP: accommodates std phone tip contact, nonprecious metal, precious metal plated; mfr code 98291, part no. SKT2BCWHITE	5-58
J4		JACK, TIP: same as J3	5-58
J5		JACK, TIP: same as J3	5-58
K1		RELAY, ARMATURE: 1 C contact arrangement; 28 v dc at 1.5 amp resistive, 1 inductive winding, 2.2 operating current, 7000 ohms resistive; mfr code 78277, part no. 73RJ2SY91745	5-58
P1		NOT USED	
P2		CONNECTOR, PLUG, ELECTRICAL: printed circuit plug feedthru, p/o vox antitrip, built in	5-58
Q1		TRANSISTOR: germanium; hermetically sealed; mfr code 07688, JETEC type 2N44	5-58
Q2		TRANSISTOR: same as Q1	5-58
Q3		TRANSISTOR: same as Q1	5-58
Q4		TRANSISTOR: germanium; mfr code 07688, JETEC type 2N525	5-58
R1		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF333K	5-58
R2		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF392K	5-58
R3		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF102K	5-58
R4		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF271K	5-58

TABLE 6-2. (Continued)

## AMPLIFIER, ELECTRONIC CONTROL

REF DESIG	NOTES	NAME AND DESCRIPTION	FIG. NO.
R5		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF153K	5-58
R6		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF913J	5-58
R7		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF563K	5-58
R8		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF391K	5-58
*R9		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF123K	5-58
*R9		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF153K	5-58
*R9		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF183K	5-58
*R9		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF223K	5-58
*R9		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF273K	5-58
R10		RESISTOR, FIXED, COMPOSITION: same as R3	5-58
R11		RESISTOR, FIXED, COMPOSITION: same as R11	5-58
R12		RESISTOR, FIXED, COMPOSITION: same as R1	5-58
R13		RESISTOR, FIXED, COMPOSITION: same as R2	5-58
R14		RESISTOR, FIXED, COMPOSITION: same as R5	5-58
R15		RESISTOR, FIXED, FILM: MIL type RN65B3161F	5-58
R16		RESISTOR, VARIABLE, COMPOSITION: 2500 ohms $\pm 20\%$ ; 0.5 to 0.13 w; mfr code 71450, part no. BJ24246	5-58
R17		RESISTOR, VARIABLE, COMPOSITION: same as R16	5-58
R18		RESISTOR, FIXED, COMPOSITION: MIL type RC20GF100K	5-58
RT1		RESISTOR, THERMAL: 4000 ohms $\pm 10\%$ , 1 w; mfr code 10646, part no. 763F87	5-58
T1		TRANSFORMER, AUDIO FREQUENCY: 40,000 ohms CT primary; 400 ohms secondary, split; 300 to 3000 cps frequency response; continuous duty cycle; mfr code 80223, part no. DOT40	5-58
T2		TRANSFORMER, AUDIO FREQUENCY: 10,000 ohms pri, 500 ohms CT sec; 300 to 3000 cps frequency response; mfr code 80223, part no. DOT9	5-58
*Chosen per operational requirements			

TABLE 6-3. LIST OF MANUFACTURERS

MFR CODE	NAME	ADDRESS
00656	Aerovox Corp.	New Bedford, Mass.
00779	AMP, Inc.	Harrisburg, Pa.
01121	Allen-Bradley Co.	Milwaukee, Wisconsin
01909	O'Donnell, J.P., Corp.	New York, N.Y.
01939	Sprague Electric Co. of Wisconsin	Grafton, Wisconsin
02660	Amphenol-Borg Electronics Corp.	Broadview (Chicago), Ill.
03705	Apex Machine and Tool Co.	Dayton, Ohio
03877	Transitron Electronic Corp.	Wakefield, Mass.
04009	Arrow, Hart, and Hegeman Electric Co.	Hartford, Connecticut
04221	Aemco, Inc.	Mankato, Minnesota
05245	Components Corp.	Chicago, Illinois
05397	Kemet Co.	Cleveland, Ohio
06980	Eitel-McCullough, Inc.	San Carlos, California
07688	Joint Electronic Tube Engineering Council	Washington, D.C.
08664	Bristol Co., The	Waterbury, Conn.
09922	Burndy Corp.	Norwalk, Conn.
10646	Carborundum Co.	Niagara Falls, N.Y.
12615	U.S. Terminals, Inc.	Cincinnati, Ohio
13499	Collins Radio Co.	Cedar Rapids, Iowa
14655	Cornell Dubilier Electric Corp.	South Plainfield, New Jersey
14674	Corning Glass Works	Corning, New York
15909	Daven Co.	Livingston, N.J.
16688	De Jur Amsco Corp.	Long Island City, N.Y.
19500	Edison, Thomas A., Industries Division of McGraw-Edison Co.	West Orange, N.J.
19701	Electra Mfg. Co.	Kansas City, Missouri
21335	Fafnir Bearing Co., The	New Britain, Conn.
21520	Fansteel Metallurgical Corp.	North Chicago, Ill.
24446	General Electric Co.	Schenectady, N.Y.
25140	Globe Industries, Inc.	Dayton, Ohio
37942	Mallory, P.R., and Co., Inc.	Indianapolis, Indiana
40920	Miniature Precision Bearings, Inc.	Keene, N.H.
44038	North Electric Co.	Galion, Ohio
44655	Ohmite Mfg. Co.	Skokie, Illinois
45722	Parker Kalon Division of General American Transportation Corp.	Clifton, New Jersey
46175	Peerless Electric Co.	Warren, Ohio
49671	Radio Corp. of America	New York, New York
51116	Robinson Aviation, Inc.	Teterboro, New Jersey
53021	Sangamo Electric Co.	Springfield, Illinois
56289	Sprague Electric Co.	North Adams, Mass.
70417	Amplex Division of Chrysler Corp.	Detroit, Mich.
70674	Audio Development Co.	Minneapolis, Minn.
71225	Buggie, H.H. and Co.	Toledo, Ohio
71400	Bussmann Fuse Division of McGraw-Edison Co.	St. Louis, Mo.
71468	Cannon Electric Co.	Los Angeles, California
71590	Centralab Division of Globe Union, Inc.	Milwaukee, Wisconsin
72076	Economy Fuse and Mfg. Co.	Chicago, Illinois
72136	Electro Motive Mfg. Co.	Willimantic, Conn.
72512	Davies, Harry Molding Co.	Chicago, Illinois
72619	Dialight Corp.	Brooklyn, N.Y.
72765	Drake Mfg. Co.	Chicago, Illinois
72914	Grimes Mfg. Co.	Urbana, Ohio
72962	Elastic Stop Nut Corp. of America	Union, New Jersey
72982	Erie Resistor Corp.	Erie, Pennsylvania
73168	Fenwal, Inc.	Ashland, Mass.

TABLE 6-3. (Continued)

MFR CODE	NAME	ADDRESS
73219	Fiske Bros. Refining Co.	Newark, N.J.
73293	Hughes Products, Div. of Hughes Aircraft Co.	Los Angeles, California
73386	Freed Transformer Co.	Brooklyn, N.Y.
73899	JFD Electronics Corp.	Brooklyn, New York
74970	Johnson, E.F. Co.	Waseca, Minnesota
75173	Jones, Howard B., Division of Cinch Mfg. Corp.	Chicago, Illinois
75382	Kulka Electric Mfg. Co., Inc.	Mount Vernon, N.Y.
75915	Littelfuse, Inc.	Des Plaines, Illinois
76255	McQuay-Norris Mfg. Co.	St. Louis, Missouri
76487	Millen, James, Mfg. Co., Inc.	Malden, Mass.
77250	Pheoll Mfg. Co.	Chicago, Illinois
77342	Potter and Brumfield, Inc.	Princeton, Indiana
77523	RBM Mfg. Co.	Fort Wayne, Indiana
78189	Shakeproof Division of Illinois Tool Works	Elgin, Illinois
78277	Sigma Instruments, Inc.	South Braintree, Mass.
78488	Stackpole Carbon Co.	St. Marys, Pa.
78947	Ucinite Co.	Newtonville, Mass.
79000	Utica Drop Forge and Tool Division of Kelsey-Hayes Co.	Utica, New York
79061	Vaco Products Co.	Chicago, Illinois
79089	RCA Victor Television, Division of Radio Corp. of America	Camden, New Jersey
79807	Wrought Washer Mfg. Co.	Milwaukee, Wisconsin
80008	Electro Engineering Works	Oakland, California
80058	Communication Electronic Nomenclature Subpanel	Washington, D.C.
80211	Motorola, Inc.	Chicago, Illinois
80223	United Transformer Co.	New York, New York
80294	Bourns Laboratories, Inc.	Riverside, California
80483	Aladdin Industries, Inc.	Nashville, Tennessee
80583	Hammarlund Co., Inc.	New York, New York
80694	Forest Electric Co.	Forest Park, Illinois
81030	International Instruments, Inc.	New Haven, Connecticut
81312	Winchester Electronics Co., Inc.	Norwalk, Connecticut
81349	Military Specifications	
81716	Oak Mfg. Co.	Crystal Lake, Ill.
81815	Communications Coil Co.	Chicago, Illinois
82068	Burnell and Co., Inc.	Pelham Manor, N.Y.
82142	Jeffers Electronics Division of Speer Carbon Co.	Du Bois, Pennsylvania
82219	Sylvania Electric Products, Inc., Tube Division	Emporium, Pa.
82386	Sun Electric Corp.	Chicago, Illinois
82577	Hughes Aircraft Co.	Culver City, California
82877	Rotron Mfg. Co., Inc.	Woodstock, New York
85675	Midland Mfg. Co., Inc.	Kansas City, Mo.
88044	Aeronautical Standards Group, Departments of Navy and Air Force	Washington, D.C.
88063	Communication Accessories Co.	Lees Summit, Mo.
89195	Aeronautical Radio, Inc.	Washington, D.C.
89321	American Electronics, Inc.	Los Angeles, California
89462	Waldes-Kohinoor, Inc.	Cambridge, Mass.
90526	Clippard Instrument Laboratory, Inc.	Cincinnati, Ohio
91314	Lewis Spring and Mfg. Co., Inc.	Chicago, Illinois

TABLE 6-3. (Continued)

MFR CODE	NAME	ADDRESS
91637	Dale Products, Inc.	Columbus, Nebr.
91662	Elco Corp.	Philadelphia, Pa.
91663	Armel Electronics, Inc.	Brooklyn, N.Y.
91929	Minneapolis-Honeywell Regulator Co., Micro Switch Division	Freeport, Illinois
92825	Whitso, Inc.	Chicago, Illinois
93983	Van Norman Industries, Inc. Electronics Division	Manchester, N.H.
94375	Automatic Metal Products Co.	Brooklyn, N.Y.
94991	Sylvania Electric Products, Inc. Parts Division	Warren, Pennsylvania
95088	Transonic, Inc.	Bakersfield, California
95105	Collins Radio Company	Burbank, California
95265	National Coil Co.	Sheridan, Wyoming
95275	Vitromon, Inc.	Bridgeport, Conn.
96095	Hi-Q Division of Aerovox Corp.	Olean, New York
96214	Texas Instruments, Inc. Apparatus Division	Dallas, Texas
96256	Thordarson-Meissner Division of Maquire Industries, Inc.	Mount Carmel, Illinois
97315	Ballastran Corp.	Fort Wayne, Indiana
97965	Stancor Electronics, Inc.	Chicago, Illinois
97966	CBS Hytron Division of Columbia Broadcasting System, Inc.	Danvers, Mass.
98291	Seaelectro Corp.	New Rochelle, N.Y.
99378	Atlas E-E Corp.	Woburn, Mass.
99800	Delevan Electronics Corp.	East Aurora, New York