#### DEPARTMENT OF THE ARMY TECHNICAL MANUAL

# OPERATOR AND ORGANIZATIONAL MAINTENANCE MANUAL MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-722/URC

#### Headquarters, Department of the Army, Washington, D. C. 20315 10 December 1964

#### **WARNING**

Be careful when working with the 115-volt ac powerline. SERIOUS INJURY or DEATH may result from contact with terminals where this voltage is present.

This copy is a reprint which includes current pages from Changes 1 through 3.

	pages from Changes 1 through 3.	Paragraph	Page
CHAPTER 1.	INTRODUCTION General		
SECTION I.	Scope of manual		3
	Technical characteristics Table of components Common names o Description of Test Set, RadioTS-1956/URC Description of minor components	1-6	4 5 5
CHAPTER 2. SECTION I.	OPERATION Service upon receipt of equipment Unpacking Checking unpacked equipment	2-1	12
II.	Operating instructions Controls, indicators; and connectors Bench test procedures Preliminary starting procedures for function test set Stopping procedures for function test set	2-3	13 15 15
CHAPTER 3.	MAINTENANCE INSTRUCTIONS Scope of maintenance Tools and materials required for maintenance Preventive maintenance Daily preventive maintenance checks and services Daily preventive maintenance checks and services chart Cleaning Monthly preventive maintenance checks and services Monthly preventive maintenance checks and services chart Preservation Quarterly preventive maintenance checks and services Quarterly preventive maintenance checks and services Quarterly preventive maintenance checks and services chart	3-2	17 17 18 18 18 18 19

1101 11-0	0020-023-12		
		Paragraph	Page
CHAPTER	4. SHIPMENT, LIMITED STORAGE, AND DEMOLITION TO PREVENT ENEMY USE		
SECTION	Disassembly of equipment	4-1	20
	Repackaging for shipment and limited storage  II. Demolition of materiel to prevent enemy use	4-2	20
	Authority for demolition	4-3	20
Appendix	I. REFERENCES		
TIT LIVETA	II. MAINTENANCE ALLOCATION		
	III. BASIC ISSUE ITEMS LIST		27
* ************************************	COMPART WE HT		

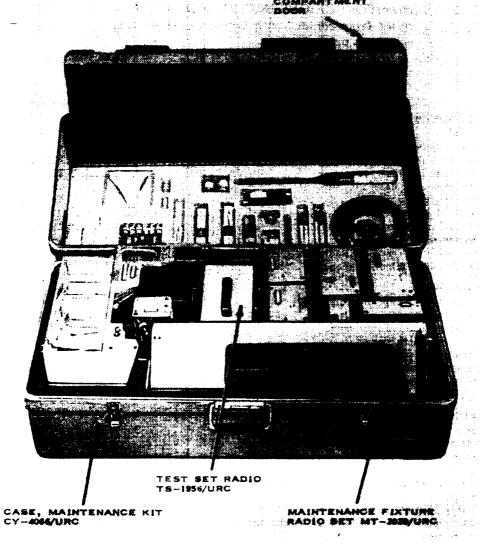


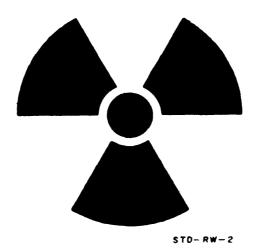
Figure 1-1. Maintenance Kit, Electronic Equipment MK-722/URC.

CHANGE No. 3

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 31 August 1977

# Operator's and Organizational Maintenance Manual (Including Repair Parts and Special Tool Lists) MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-722/URC (NSN 5999-00-757-7042)

TM 11-6625-623-12 10 December 1964, is changed as follows: Title is changed as shown above. Add Radiation Warning inside front cover.



Connector Ra226 24uCi 5935-811-1382

Radiation Hazard Information: The following radiation hazard information must be read and understood by all personnel before operating or repairing Electronic Equipment Maintenance Kit MK-722/URC. Hazardous radioactive materials are present in the above listed component.

The components are potentially hazardous when broken. See qualified medical personnel and the local Radiological Protection Officer (RPO) immediately if you are exposed to or cut by broken components. First aid instructions are contained in TB 43-0122, and AR 755-15.

NEVER place radioactive components in your pocket.

Use extreme care NOT to break radioactive components while handling them.

NEVER remove radioactive components from cartons until you are ready to use them.

If any of these components are broken, notify the local RPO immediately. The RPO will survey the immediate area for radiological contamination and will supervise the removal of broken components. The above listed radioactive components will *not* be repaired or disassembled.

Disposal of broken, unserviceable, or unwanted radioactive components will be accomplished in accordance with the instructions in AR 755-15.

By Order of the Secretary of the Army:

BERNARD W. ROGERS General, *United States Army Chief of Staff* 

Official:

PAUL T. SMITH
Major General, United States Army
The Adjutant General

#### Distribution:

To be distributed in accordance with DA Form 12-36A, Organizational maintenance requirements for MK-722/URC.

TM 11-6625-623-12 C2

CHANGE No. 2

HEADQUARTERS, DEPARTMENT OF THE ARMY WASHINGTON, D.C. 14 May 1974

#### Organizational Maintenance Manual (Including Repair Parts and Special Tool List) MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-722/URC

TM 11-6625-623-12, 10 December 1964, is changed as follows:

Page 3. Delete paragraph 1-2 and substitute:

#### 1-2. Indexes of Publications

- a. DA Pam 310-4. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.
- b. DA Pam 310-7. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO'S) pertaining to the equipment. Delete paragraph 1-3 and substitute:

#### 1-3. Forms and Records

- a. Reports of Maintenance and Unsatisfactory Equipment. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.
- b. Report of Packaging and Handling Deficiencies. Fill out and forward DD Form 6 (Report of

Packaging and Handling Deficiencies) as prescribed in AR 700-58/NAVSUP PUB 378/AFR 71-4/MCO P4030.29, and DSAR 4145.8.

c. *Discrepancy in Shipment Report (DISREP)* (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as Prescribed in AR 55-38/NAVSUPINST 4610.33/AFM 75-18/MCO P4610.19A, and DSAR 4500.15. After paragraph 1-3 add:

# 1-3.1. Reporting of Equipment Publication Improvements

The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forwarded direct to Commander, US Army Electronics Command, ATTN: AMSEL-MA-C, Fort Monmouth, NJ 07703.

#### Page 4. Delete paragraph 1-6 and substitute:

### 1-6. Items Comprising an Operable Equipment

	•	• • • • • • • • • • • • • • • • • • • •					
FSN	Qty	Nonenclature, part No., and afrecide	Fig. No.	Height	Di-nensions (in Depth	.) Width	Weight (lb.)
6625-082-4275		Maintenance Kit, Electronic Equipment MK-722/URC consisting of: NOTE	1-1				
		The part number is fol- lowed by the applicable 5-digit Federal supply					
		code for manufacturers (FSCM) identified in SB					
		708-42 and used to iden- tify manufacturer, dis- tributor, or Government					
6026 602 7002	1	Agency, etc.					
5935-683-7892 5935-681-5013	1	Adapter, Cable UG-274B/U Adapter, Connector UG-491B/U	1-4				0.06
5935-280-1454	1	Adapter, Connector UG-491B/U	1-4				0.06
5935-709-5709	2	Adapter, Connector: 1645; 05276	1-4				0.00
5120-288-7786	1	Alignment Tool, Electronic Equipment: 8606; 72653					
5120-516-3108	1	Alignment Tool, Electronic Equipment: 024-0309-00; 95104					
5821-019-6317	1	Attenuator, Fixed, CN-1066/ URC: 548-3522-002; 95104		1	3.125	0.937	
5995-985-8170	1	Cable Assembly, RF, CG- 2549A/U: plug UG-88E/U on one end; 75, 37942; 548- 3489-002, 95104	1-4				0.2
5995-985-8199	1	Cable Assembly, RF, CG-2727/U	1-4				0.2
5995-252-5838	6	Cable Assembly, RF, CG-2730/U, plug UG-88E/U on each end;					0.0436
5995-985-8169	1	546-7321-002, 95104 Cable Assembly, RF, CG-3126/U:	1-4				0.0625
		plug UG-88E/U on one end; other end, plug telephone PJ068), 548-3490-002; 95104	1-4				0.2
5995-985-8173	1	Cable Assembly, Power, Electrical, CX-9009/URC: (plug 7429; 83315 on one end; plug					
6625-019-6315	,	4725-3; 24446 on other end), 548-3490-002; 95104 Detector, Radio frequency,	1-4				0.312
0023-019-0313	1	DT-278/URC: 548-3533-002; 95104	1-6	2 5/16	1	15/16	0.125
5821-081-3957	1	Dial Scale: 548-3530-002; 95104	1-6	,			0.02
5821-019-6315	1	Dummy Load, Electrical, DA- 34/URC: 549-0989-003; 95104	1-6	3	1 5/16	1 1/16	0.125
6625-019-6301	1	Extender, Module, MX-4887/URC: 548-3452-00, 95104	1-3	13	8 1/2	12 23/32	0.936
6625-019-6311	1	Extender, Module, MX-4888/URC: 548-3463-004; 95104	1-3	5 15/16	6 15/16	2 15/16	0.688
6625-019-6303	1	Extender, Module, MX-4889/URC: 548-3501-004, 95104	1-3	6 15/16	1 1/4	1 1/2	0.688
6625-019-6304	1	Extender, Module, MX-4890/URC: 548-3502-004; 95104	1-3	4 1/4	6 15/16	1 7/16	0.688

Dimensions (in.)

FSV	Qty	Vo:nendature, part Vo., and infr code	Fig. Vo.	Height	Depth	Width	Weight (lb.)
6625-019-6310	1	Extender, Module, MX-4891/URC: 548-3461-004; 95104	1-3	7 5/16	4 9/16	2 15/16	0.688
6625-083-7311	1	Extender, Module, MX-4892/URC: 548-3505-00; 95104	1-3	4 1/16	7 5/16	2 15/16	0.688
6625-019-6305	1	Extender, Module, MX-4893/URC: 548-3543-004; 95104	1-3	6 15/16	4 5/16	1 7/16	0.3115
6625-019-6306	1	Extender, Module, MX-4894/URC: 548-3455-004; 95104	1-3	5 7/8	3	2 7/16	0.375
6625-019-6309	1	Extender, Module, MX-4895/URC: 548-3459-004; 95104	1-3	6 15/16	5 15/16	2 15/16	0.625
5821-019-6290	1	Extractor, Module: 546-6463-002; 95104	1-5	0 13/10	3 13/10	2 13/10	0.023
5120-763-1262	2	Extractor, Electron Tube: SK604A; 06980					
6625-795-0522	1	Frame, Actuator: 548-8014-003; 95104	1-6				0.125
5120-293-0195	1	Key: S060-4-6CDPL; 29398					
5120-223-6995	1	Key: S096-8-6CDPL; 29398					
5120-995-7192	i	Key: Socket Head Screw: AS096; 29398					
6625-019-6318		Maintenance Fixture, Radio Set MT-3039/URC: 549-0990-	1.6	21.2/4	10.0/16	2.2/16	2.0
5355-062-0949	1	004; 95104 Pointer, Dial: 549-0974-002; 95104	1-5 1-6	21 3/4	10 9/16	2 3/16	2.0 0.001
6635 061 3640	1		1-6				0.0625
6625-061-3649	1	Prod, Test: 548-3484-002; 95104 Prod, Test: 548-3486-002; 95104	1-6				0.0625
6625-019-6312 6625-061-3648	1	Prod, Test: 548-3499-002; 95104	1-6				0.0023
5120-542-3438	1	Screwdriver: 130291NSHK;	1-0				0.05
3120-342-3436		03705	1-6				0.25
6625-069-2690	1	Socket, Electron Tube: TVS7; 05276	10				0.20
6625-891-5128	1	Socket, Electron Tube; TVS9 05276					
6625-965-0188		Test Set TS-1956/URC: 761-4984- 001; 95104		9.244	5.1/2	0.178	5.0
6625-965-0186	1	which includes: Lead, Test, CX-9010/URC: 549-1005-002; 95104	1-1	8 3/4	5 1/2	9 1/8	5.0 0.03
6625-965-0181	1	Lead, Test, CX-9011/URC: 549-1006-003; 95104	1-4				0.03
6625-965-0182	1	Lead, Test, CX-9012/URC: 549-1007-003; 95104	1-4				0.03
6625-965-0183	1	Lead, Test, CX-9013/URC: 423-0241-00; 95104	1-4				0.03
6625-965-0184	1	Lead, Test, CX-9014/URC: 1009-003; 95104	1-4				0.03
6625-965-0187	1	Lead, Test, CX-9015/URC: 549-1010-003; 95104	1-4				0.03
5120-060-6423	1	Tool Tuning: 547-2796-002; 95104	1-6				0.02
6625-019-6314	1	Voltage Divider TS-1954/URC: 548-3525-002; 95104	1-6	3 1/8	1	15/16	0.063
6625-019-6313	1	Voltage Divider TS-1955/URC: 548-3528-002; 95104	1-6	3 1/8	1	15/16	0.063

#### **APPENDIX III** BASIC ISSUE ITEMS LIST (BILL) AND ITEMS TROOP **INSTALLED OR AUTHORIZED LIST (ITIAL)**

#### Section I. INTRODUCTION

#### 1. Scope.

This appendix lists only basic issue items required by the crew/operator for installation, operation, and maintenance of Maintenance Kit, Electronic Equipment MK-722/URC.

#### 2. General

This Basic Issue Items and Items Troop Installed or Authorized List is divided into the following sections:

- a. Basic Issue Items List Section II. A list, in alphabetical sequence, of items which are furnished with, and which must be turned in with the end item.
- b. Items Troop Installed or Authorized List - Section III. Not applicable.

#### 3. Explanation of Columns

The following provides an explanation of columns found in the tabular listings:

- a. Illustration. Not applicable.
- b. Federal Stock Number. Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements, to identify an item or range of items.

- d. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc. and is identified in SB
- e. Description. Indicates the Federal item name and a minimum description required to identify the item.
- f. Unit of Measure (U/M). Indicates the standard of basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation, (e.g., ea, in., pr, etc.). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.
- g. Quantity Furnished with Equipment (Basic Issue Item Only). Indicates the quantity of the c. Part Number. Indicates the primary number basic issue item furnished with the equipment.

#### Section II. BASIC ISSUE ITEMS LIST

(I		(2) Føderal stock	(3) Part	(4) FSCM	(5) Description	(6) Unit of	(7) Qty furn
(A) Fig. no.	(B) Item no.	number	number		Usable on code	meas	with equip
		6625-766-3677	SK625200	74284	CASE, MAINTENANCE KIT CY-4066/URC	EA	1
		8105-063-5060	104N4X6	20344	BAG, COTTON DUCK	EA	1

By Order of the Secretary of the Army:

CREIGHTON W. ABRAMS General, United States Army Chief of Staff

Official:

VERNE L. BOWERS

Major General, United States Army The Adjutant General

#### Distribution:

 $To\ be\$  distributed in accordance with DA Form 12-36A (qty rqr block No. 1080), Organizational maintenance requirements for MK-722/URC.

Change \ No. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON D.C., 2 March 1966

## Organizational Maintenance Manual (Including Repair Parts and Special Tool Lists)

#### MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-722/URC

TM 11-6625-623-12, 10 December 1964, is changed as follows: The title of the manual is changed as shown above.

*Page 3,* paragraph 1-2. Delete paragraph 1-2 and substitute:

#### 1-2. Index of Publications

Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment. DA Pam 310-4 is a current index of technical manuals, technical bulletins, supply manuals (types 7, 8, and 9), supply bulletins, lubrication orders, and modification work orders available through publications supply channels. The index lists the individual parts (-10, -20, -35P, etc.) and the latest changes to and revisions of each equipment publication.

Paragraph 1-3. Delete subparagraph *c* and substitute:

c. Reporting of Equipment Manual Improvements. The direct reporting, by the individual user, of errors, omissions, and recommendations for improving this equipment manual is authorized and encouraged. DA Form 2028 (Recommended Changes to DA Publications) will be used for reporting these improvements. This form may be completed using pencil, pen, or typewriter and forwarded direct to Commanding General, U.S. Army Electronics Command, ATTN: AMSEL MR-(NMP)-MA, Fort Monmouth, New Jersey, 07703.

Page 28, appendix III. Delete section II and substitute:

#### SECTION II. OPERATOR'S FUNCTIONAL PARTS LIST

FEDERAL	DESIGNATION		UNIT		QTY	ILLUST	RATION
STOCK NUMBER	BY MODEL	DESCRIPTION	OF ISSUE	EXP	AUTH	FIGURE NO.	ITEM NO.
6625-082-4275		MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-722/URC: provides module extenders, adapter cables, and special tools so that adjustments may be performed for the Radio Sets AN/ARC-102 and AN/MRC-95. A complete operational check is provided when used in conjunction w/ Test Harness AN/URM-157; Collins Radio p/n 522-3401.005		NX			
ORD THRU AGC		TECHNICAL MANUAL TM 11-6625-623-12  NOTE: For technical manuals the quantity authorized indicates the number of copies packed with the equipment at the time of procurement. It represents the maximum quantity authorized. Where a number of these equipments are concentrated in a small area, the quantity on hand may be reduced to practical levels. Excess publications must be returned to publication supply centers through AG channels.			2		
5935-683-7892		ADAPTER, CABLE UG-274B/U			1		1
5935-549-1154		ADAPTER, CONNECTOR UG-491B/U: 1 cont; 2 connector mating ends; MIL type MS35176			1		
5935-280-1454		ADAPTER, CONNECTOR UG-914/U:			1		
5935-709-5709		ADAPTER, CONNECTOR: Pomona Elec p/n 1645			2		
5120-288-7786		ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; hexagon socket; 5.123 in lg o/a; G C Elec p/n 8606			1		
5120-516-3108		ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; slot type; 5.999 in lg o/a; JACO PROD p/n 024-0309-00; Collins Radio p/n 024-0309-00			1		
5821-019-6317		ATTENUATOR, FIXED, CN-1066/URC: 3.125 in lg X 0.937 in wd X l in h o/a; Collins Radio p/n 548-3522-002		NX	1		
8105-063-5060		BAG, COTTON DUCK: drawstring enclosure; 6 in lg X 4 in wd; National Bag Co p/n 104N4X6			1		
5995-985-8170		CABLE ASSEMBLY, RF, CG-2549A/U: 4 ft 4 in; plug UG-88E/U on one end; plug, telephone P R Mallory p/n 75, other end; Collins Radio p/n 548-3489-002			1		
5995-985-8199		CABLE ASSEMBLY, RF CG-2727/U: 5 ft			1	ļ	

FEDERAL	nec.	GN/	A TIC		UNIT		QTY	ILLUST	RATION
STOCK NUMBER		MC		DESCRIPTION	ISSUE	FXP	AUTH	FIGURE NO.	ITEM NO.
			T	MK-722/URC (continued)					
5995 <b>-985-7888</b>				CABLE ASSEMBLY, RF CG-2730/U (4 in): plug UG-88E/U on ea end; Collins Radio p/n 546-7321-002			6		
5995-985-8169				CABLE ASSEMBLY, RF, CG-3126/U: 4 ft 4-1/2 in; plug UG-88E/U on one end; other end, plug telephone PJ068; Collins Radio p/n 548-3490-002			1		
5995-985-8173				CABLE ASSEMBLY, POWER, ELECTRICAL, CX-9009/URC: plug, Hubbell p/n 7429 on one end, plug, GE p/n 4725-3 other end; Collins Radio p/n 548-3539-002			1		
6625-766-3677				CASE, MAINTENANCE KIT CY-4066/URC: provides for storage and transit of maintenance kit, Electronic Equipment MK-722/URC; Skydyne p/n SK625200			1		
6625-019 <b>-6316</b>				DETECTOR, RADIOFREQUENCY, DT-278/URC: used in neutralizing the driver circuits of the RF Translator module; Collins Radio p/n 548-3533-002		NX	1		
5821-081-3957				DIAL, SCALE: 0 to 90 cw; 2 in dia X 0.188 in thk; Collins Radio p/n 548-3530-002			1		
5821-019-6315				DUMMY LOAD, ELECTRICAL, DA-340/URC: provides RF Translator module w/ dummy load for test purposes; Collins Radio p/n 549-0989-003		NX	1		
6625-019 <b>-630</b> 1				EXTENDER, MODULE, MX-4887/URC: extends the RF Translator module of the RT-698/ARC-102 for testing; Collins Radio p/n 548-3452-00		NX	1		
6625-019 <b>-63</b> 11				EXTENDER, MODULE MX-4888/URC: extends the RF oscillator module of the RT-698/ARC-102 for testing; Collins Radio p/n 548-3463-004		NX	1		
6625 <b>-</b> 019 <b>-6303</b>				EXTENDER, MODULE, MX-4889/URC: extends frequency stablizer module of the Receiver-Transmitter, Radio RT-698/ARC-102 for testing; Collins Radio p/n 548-3501-004		NX	1		
6625-019- <b>630</b> 4				EXTENDER, MODULE MX-4890/URC: extends frequency divider module of the Receiver-Transmitter, Radio RT-698/ARC-102 for testing; Collins Radio p/n 548-3502-004		NX	1		
				548-3463-004  EXTENDER, MODULE, MX-4889/URC: extends frequency stablizer module of the Receiver-Transmitter, Radio RT-698/ARC-102 for testing; Collins Radio p/n 548-3501-004  EXTENDER, MODULE MX-4890/URC: extends frequency divider module of the Receiver-Transmitter, Radio RT-698/ARC-102 for					

FEDERAL	DE:	siGi	NAT	ION		UNIT		QTY	ILLUST	RATION
STOCK NUMBER	В	Y A	AOD	EL	DESCRIPTION	OF	EXP	AUTH	FIGURE NO.	ITEM NO
					MK-722/URC (continued)					
6625-019-6310					EXTENDER, MODULE, MX-4891/URC: extends the AM/AUDIO module of RT-698/ARC-102 for testing; Collins Radio p/n 548-3461-004		NX	1		
6625-083-7311					EXTENDER, MODULE MX-4892/URC: extends the IF Translator module of RT-698/ARC-102 for testing; Collins Radio p/n 548-3505-00		NX	ı		
6625-019-6305					EXTENDER MODULE MX-4893/URC: extends the Amplifier module of RT-698/ARC-102 for testing; Collins Radio p/n 548-3543-004		NX	1		
6625-019-6306					EXTENDER, MODULE, MX-4894/URC: extends the low voltage power supply of RT-698/ARC-102 for testing; Collins Radio p/n 548-3455-004		NX	1		
6 <b>625-0</b> 19-6309					EXTENDER, MODULE MX-4895/URC: extends the Frequency Stablizer module of RT-698/ARC-102 for testing; Collins Radio p/n 548-3459-004		NX	1		
5821-019-6290					EXTRACTOR, MODULE: 0.828 in X 2.750 in X 5.375 in o/a; Collins Radio p/n 546-6463-002			1		
5120-763-1262					EXTRACTOR, ELECTRON TUBE: tong type Eitel-McCullough p/n SK604A			2		
6625-795-0522					FRAME, ACTUATOR: al; 5.063 in X 4.000 in X 2.016 in o/a; Collins Radio p/n 548-8014-003			1		
5120-293-0195			Ì		KEY: Bristol Co p/n SO60-4-6CDPL			1		
5120-223-6995					KEY: Bristol Co p/n S096-8-6CDPL			1		
5120-995-7192					KEY, SOCKET HEAD SCREW: splined type, 6 flutes; 0.940 in dia; Bristol Co Read Ind Instr Div p/n ASO96			1		
6625-019-6318					MAINTENANCE FIXTURE, RADIO SET MT-3039/URC: provides facilities for elevating RT-698/ARC-102 during test to allow air to be exhausted from bottom; Collins Radio p/n 549-0990-004		NX	1		
5355-062-0949					POINTER, DIAL: al; 0.687 in lg X 0.250 in wd X 0.485 in h; Collins Radio p/n 549-0974-002			1		
6625-061-3649					PROD, TEST: black plastic handle 3 in lg; 5.300 in lg X 0.500 in wd X 0.906 in h o/a; Collins Radio p/n 548-3484-002			1		

						UŃIT		YTO	ILLUST	RATION
FEDERAL STOCK NUMBER			NATI AOD	ET FON	DESCRIPTION	OF ISSUE	FA:	AUTH	FIGURE NO.	ITEM NO.
	+	$\dagger$		H	MK-722/URC (continued)					
6625-015-6312					PROD, TEST: red plastic 3 in lg; incl capacitor; 6.096 in lg X 0.500 in wd X 0.968 in h o/a; Collins Radio p/n 548-3486-002			1		
6625-061-3648					PROD, TEST: red plastic handle, 3 in lg; cable attached w/ jack tip; 4.437 in lg X 0.375 in dia o/a; Collins Radio p/n 548-3499-002			1		
5120-965-0287			İ		SCREWDRIVER: Apex Machine and Tool Co p/n 130291NSHK			1		
6625-069-2690					SOCKET, ELECTRON TUBE: 7 cont; 1.390 in h X 0.905 in dia; Pomona Elec p/n TVS7			1		
6625-891-5128					SOCKET, ELECTRON TUBE: 9 cont; Pomona Elec p/n TVS9			1		
6625-965-0188					TEST SET TS-1956/URC: 9.125 in 1g X 5.5 in wd X 8.812 in h; Collins Radio p/n 761-4984-001		ИХ	1		
6625-965-0186					LEAD, TEST, CX-9010/URC: provides grounding facilities for the Test Set, Radio TS-1956/URC; Collins Radio p/n 549-1005-002			1		
6625-965-0181					LEAD, TEST CX-9011/URC: provides interconnecting facilities between the Receiver-Transmitter, Radio RT-698/ARC-102 and Test Set, Radio TS-1956/URC; Collins Radio p/n 549-1006-003			1		
6625-965-0182					LEAD, TEST CX-9012/URC: provides interconnecting facilities between the Receiver-Transmitter, Radio RT-698/ARC-102 and Test Set, Radio TS-1956/URC; Collins Radio p/n 549-1007-003			1		
6625-965-0183					LEAD, TEST, CX-9013/URC: provides interconnecting facilities between Receiver-Transmitter, Radio RT-698/ARC-102 and Test Set, Radio TS-1956/URC; Collins Radio p/n 423-0241-00			1		
6625-965-0184					LEAD, TEST, CX-9014/URC: provides interconnecting facilities between the Receiver-Transmitter, Radio RT-698/ARC-102 and Test Set, Radio TS-1956/URC; Collins Radio p/n 1009-003			1		
6625-965-0187					LEAD, TEST CX-9015/URC: provides interconnecting facilities between the Receiver-Transmitter, Radio RT-698/ARC-102 and the Test Set, Radio TS-1956/URC; Collins Radio p/n 549-1010-003			1		

FEDERAL	D	ESUC	NA:	inca		UNIT		QTY	ILLUSTI	RATION
STOCK NUMBER			MOI	-	DESCRIPTION	OF ISSUE	EXP	AUTH	FIGURE NO.	ITEM NO.
		T	T	Τ	MK-722/URC (continued)	1				
5120-060-6423					TOOL, TUNING: Collins Radio p/n 547-2796-002			1		
6625-019-6314					VOLTAGE DIVIDER TS-1954/URC: reduces the RF output voltage of the RT-698/ARC-102 from approx 80 v to approx 2.5 v; Collins Radio p/n 548-3525-002		NX	1		
6625-019-6313					VOLTAGE DIVIDER TS-1955/URC: reduces RF output voltage of RT-698/ARC-102 from approx 80 v to approx 2.5 v; Collins Radio p/n 548-3528-002		NX	1		
					RUNNING SPARE ITEMS					
					NO PARTS AUTHORIZED FOR STOCKAGE AT OPERATOR'S LEVEL					
	ļ									
	i									
								,	1	

#### **APPENDIX IV**

#### ORGANIZATIONAL REPAIR PARTS LIST

#### Section I. INTRODUCTION

#### A4-1. General

a. This appendix lists the quantities of repair parts authorized for organizational maintenance and constitutes a basis of requisitioning when the major item of equipment is authorized to the organization. These equipments are issued on the basis of allowances prescribed in equipment authorization tables and other documents which are a basis of requisitioning.

- b. Columns areas follows:
  - (1) Federal stock number. This column lists the n-digit stock number.
  - (2) Designation by model. Not used.
  - (3) Description. Nomenclature or the standard item name and brief identifying data for each item are listed in this column. When requisitioning, enter the nomenclature and description.
  - (4) Unit of issue. The unit of issue is each unless otherwise indicated and is the supply term by which the individual item is counted for procurement, storage, requisitioning, allowances, and issue purposes.
  - (5) Expendability. Nonexpendable items are indicated by NX. Expendable items are not annotated.
  - (6) Quantity incorporated in unit. This column lists the quantity of each part found in a given assembly, component, or equipment.
  - (7) Organizational. The quantities indicated in this column are maximum levels of repair parts authorized to be kept on hand by units performing organizational maintenance. The quantities are based on 100 equipments to be maintained for a 15-day period.
  - (8) Illustration. The "Item No." column lists the reference designations that appear on the part in the equipment. These same

designations are also used on any illustrations of the equipment.

#### A4-2. Parts for Maintenance

When this equipment is used by Signal service organizations organic to the theater headquarters or communication zones to provide theater communications, those repair parts authorized up to and including general support are authorized for stockage by the organization operating this equipment.

#### A4-3. Additional Repair Parts Authorization

An asterisk (\*) indicates that an item is not authorized for stockage but if required, may be requisitioned for immediate use only.

#### A4-4. Maintenance Float Requirements

Supply Bulletin SB 11–244 is the authorizing document for maintenance float. It authorizes a maximum number of major components which are installed in Army aircraft and states in part:

"A careful review will be made by the responsible maintenance officer to limit maximum percentage of maintenance float to only those items that exhibit high failure rates. Items authorized for stockage as maintenance float will be included on the theatre or installation authorized stockage list in accordance with AR 711-16, coded to indicate that stockage is for maintenance float. In the case of avionics maintenance float, the field maintenance officer is encouraged to locate the float at Army aifields in order to obtain maximum utilization.

#### A4-5. Requisitioning Information

a. The allowance factors are based on 100 equipment. In order to determine the number of parts

authorized for the specific number of equipments supported, the following formula will be used and carried out to two decimal places.'

Specific number of equipments supported

= number of parts authorized.

b. Fractional values obtained from above computation will be rounded to whole numbers as follows:

- (1) When the total number of parts authorized is less than one, the quantity authorized will be one.
- (2) For all values above one, fractional values below 0.5 will revert to the next lower number, functional values of 0.5 or larger

will advance to the next higher whole number.

- c. The number of parts authorized determined after application of a and b above, represent one prescribed load for a 15-day period. The items and computed quantities thereof must be on hand or on order at all times.
- d. Major commanderds will determine the number of prescribed loads organizational units will carry. Units and organizations authorized additional prescribed loads will utilize the formula explained in a above but will multiply the number of equipments supported by the number of authorized prescribed loads before completing the formula. Fractional values will be rounded to whole numbers as described above.

SECTION II. ORGANIZATIONAL FUNCTIONAL PARTS LIST

FEDERAL STOCK NUMBER	 DESIGNATION BY MODEL			N		UNIT		QTY	ORGAN-	ILLUSTRATION	
					DESCRIPTION	OF	EXP	UNIT	IZATIONAL	FIGURE NO.	ITEM NO.
6625-082-4275					MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-722/URC: provides module extenders, adapter cables and special tools for tests, adjustments, switching and calibration of AN/ARC-102 and AN/MRC-95		NX				
5935-603-1892		l	ĺ		ADAPTER, CONNECTOR, UG-274E/U			1	*		A17
5935-549-1154					ADAPTER, CONNECTOR, UG-491B/U			1	*		A19
5935-280-1454		l			ADAPTER, CONNECTOR, UG-914/U			1			A18
5935-709-5709					ADAPTER, CONNECTOR: bayonet lock pin type, straight shape; 2 contacts, 2 connector mating ends; Pomona Elec Co Inc p/n 1645 or General Radio Co p/n 2740BJ			2	*		
6625-069-2690					ADAPTER, TEST: connects to item to be tested by 7 pin plug-in socket; plastic body 1.500 in lg and 1.000 in dia o/a; Pomona Elec Co Inc p/n TVS-7			1	*		
6625-891-5128					ADAPTER, TEST: connects to item to be tested by integral connector; test socket accommodates 9 pin miniature tube; plastic body 1-1/16 in dia and 1-1/16 in h o/a; Pomona Elec Co Inc p/n TVS-9			1	*		
5120-060-6423					ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: screwdriver type with nonmetallic screwdriver tip on each end; plastic body; Collins Radio Co p/n 547-2796-002			1	*		
5120-288-7786					ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: combination screwdriver and wrench type; nonmetallic screwdriver tip on one end and Allen hexagonal socket, 0.100 in across flats, on other end; plastic body; G.C. Elec Mrg Co p/n 8606			1	*		
5120-516-3108					ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: screwdriver type with plastic body; metallic screwdriver tip on each end; JACO Products Co p/n 024-0309-00	į		1	*		
5821-019-6317					ATTENUATOR, FIXED, CN-1066/URC		NX	1	*		
6625-019-6316					DETECTOR, RADIOFREQUENCY, DT-278/URC		NX	1			
5821-081-3957					DIAL, SCALE: range 0 to 90 cw; graduated in 100 scale divisions; Collins Radio Co p/n 548-3530-002			ı	•		

FEDERAL STOCK NUMBER	i wo	DEL		UNIT		OTY	ORGAN-	ILLUST	RATIO
dicine chiminike	Ц		DESCRIPTION	OF ISSUE	EXP	IN	IZATIONAL	FIGURE NO.	
			MK-722/URC (continued)						
5821-019-6315			DUMMY LOAD, ELECTRICAL, DA-340/URC		NX	1	*		
<b>6625-</b> 019-6301			EXTENDER, MODULE, MX-4887/URC (MAINTENANCE FLOAT ITEM)		их	1	*		
6625-019-6311			EXTENDER, MODULE, MX-4888/URC (MAINTENANCE FLOAT ITEM)		NX	1	*		
6625-019-6303		$\Pi$	EXTENDER, MODULE, MX-4889/URC (MAINTENANCE FLOAT ITEM)		их	1	*		
6625-019-6304			EXTENDER, MODULE, MX-4890/URC (MAINTENANCE FLOAT ITEM)		NX	1	*		
6625-019-6310			EXTENDER, MODULE, MX-4891/URC (MAINTENANCE FLOAT ITEM)		NX	i	*		
6625-083-7311			EXTENDER, MODULE, MX-4892/URC (MAINTENANCE FLOAT ITEM)		NX	1	*		
<b>6625-</b> 019 <b>-</b> 6305			EXTENDER, MODULE, MX-4893/URC (MAINTENANCE FLOAT ITEM)		NX	1	*		
<b>6625-</b> 019-6306			EXTENDER, MODULE, MX-4894/URC (MAINTENANCE FLOAT ITEM)	ļ	NX	1	*		
6625-019-6309			EXTENDER, MODULE, MX-4895/URC (MAINTENANCE FLOAT ITEM)		NX	1			
51 <b>2</b> 0 <b>-</b> 763-1262			EXTRACTOR, ELECTRON TUBE: tong type; designed for type 3CX100A5 and 4CX250B tubes; Eitel-McCullough Inc p/n SK604A			2	*		
<b>5821-</b> 019-6290			EXTRACTOR, MODULE: dimensions 0.828 in X 2.750 in X 5.375 in o/a; Collins Radio Co p/n 546-6463-002			1	*		
5120-223-6995			KEY, SOCKET HEADSCREW: L shaped; multiple spline type, size no. 8; Bristol Co p/n SO96-8-6CDPL			1	*		
<b>5120-2</b> 93 <b>-</b> 0195			KEY, SOCKET HEADSCREW: L shaped; multiple spline type, size no. 4; Bristol Co p/n SO60-4-6CDPL			1	*		
5120-995-7192			KEY, SOCKET HEADSCREW: screwdriver type handle; multiple spline type blade, size no. 8; Bristol Co, Read Ind Ins Div p/n ASO96			1	*		
5355-062-0949			POINTER, DIAL: aluminum with chromate finish; 0.687 in lg, 0.250 in wd and 0.485 in h o/a; Collins Radio Cop/n 549-0974-002			1	*		

FEDERÁL	DESIGNATION BY MODEL			DESCRIPTION			QTY	ORGAN-	ILLUSTRATION		
STOCK NUMBER						EXP	IN UNIT	IŻATIONAL	FIGURE NO.	ITEM NO.	
6625-019-6312					MK-722/URC (continued)  PROD, TEST: test probe no. 1; red plastic handle with replaceable phone tip on one end and bayonet locking type connector on other end; Collins Radio Co p/n 548-3486-002			1	*		
6625-061-3649					PROD, TEST: test probe no. 2; black plastic handle with replaceable phone tip on one end and bayonet locking type connector on other end; Collins Radio Co p/n 548-3484-002			1	*		
<b>66</b> 25-061-3648					PROD, TEST: test probe no. 3; brown plastic handle with replaceable phone tip; Collins Radio Co p/n 548-3499-002			1	*		
5120-965-0287					SCREWDRIVER, CROSS TIP: Phillips no. 2 size tip; plastic handle with blade 9 in lg; Apex Machine and Tool Cop/n 1302-9INSHK			1	*	į	
6625-019-6314				١	VOLTAGE DIVIDER TS-1954/URC		NX	1	*		
6625-019-6313					VOLTAGE DIVIDER TS-1955/URC		NX	1	*		
					TEST SET TS-1956/URC (MAINTENANCE FLOAT ITEM)						
5920-043-2641					FUSE, CARTRIDGE: 1/4 amp, 250 volts maximum; glass body with ferrule type terminals; 1.250 in 1g and 0.250 in dia o/a; MIL type FO2GR250A			1	5.7		Fl
5355-994-5881					INSERT, KNOB: used on knob per Collins Radio Co p/n 544-0779-004; aluminum; 0.450 in dia and 0.531 in lg o/a; Collins Radio Co 544-0778-004			4	*		
5355-778-4967					KNOB: setscrew type with 6-32 threaded hole, without setscrew; phenolic body with pointer shape; 1.125 in lg, 0.938 in wd, and 0.750 in thk o/a; Collins Radio Co p/n 544-0779-004			4	*		
6240-723-3378					LAMP, GLOW: neon gas filled; reference drawing group number 7, type T-2; MIL type MS25252-NE2J			1	4.8		
6625-965-0186					LEAD, TEST, CX-9010/URC			1	*		W1

FEDERAL STOCK NUMBER	DESIGNATION BY MODEL			UNIT		QTY	ORGAN-	ILLUSTRATION		
			DESCRIPTION		EXP	IN UNIT	IZATIONAL	FIGURE NO.	ITEM NO.	
				MK-722/URC (continued)						
6625-965-0181				LEAD, TEST, CX-9011/URC			1	*		W2
6625-965-0182				LEAD, TEST, CX-9012/URC			1	*		W3
6625-965-0183			Ш	LEAD, TEST, CX-9013/URC			1	*		W4
6625-965-0184				LEAD, TEST, CX-9014/URC			1	*		<b>W</b> 5
6625-965-0187				LEAD, TEST, CX-9015/URC			1	*		w6
6210-892-5460				LENS, INDICATOR LIGHT: clear red plastic lens; includes lens holder with 5/16-32 external thread; 1 in lg and 7/16 in dia o/a; Dialight Corp p/n 137-931			1	*		

#### By Order of the Secretary of the Army:

HAROLD K. JOHNSON, General, United States Army, Chief of Staff.

#### Official:

J. C. LAMBERT,

Major General, United States Army, The Adjutant General.

#### Distribution:

To be distributed in accordance with DA Form 12-36, Unclassified requirements for Direct and General Support Maintenance for the CV-2A, CV-2B, CV-7A, OV-1A, OV-1B, OV-1C, U-1A, U-6A, U-8F, U-10A, CH-21B, CH-21C, CH-34C, CH-37B, CH-47A, UH-1B, UH-1D aircrafts.

#### CHAPTER 1

#### INTRODUCTION

#### Section I. GENERAL

#### 1-1. Scope of Manual

This manual describes Maintenance Kit, Electronic Equipment MK-722/URC (fig. 1-1) and covers it operation and organizational maintenance. The maintenance includes preventive maintenance checks and services, cleaning, and inspection of the equipment.

#### 1-2. Index of Publications

Refer to the latest issue of DA Pamphlet 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment. Department of the Army Pamphlet No. 310-4 is an index of current technical manuals, technical bulletins, supply manuals (types 4, 6, 7, 8, and 9), supply catalogs (type CL), supply bulletins, lubrication orders, and modification work orders that are available through publications supply channels. The index lists the individual parts (-10, -20, -35P, etc) and the latest changes to and revisions of each equipment publication.

#### 1-3. Forms and Records

a. Reports of Maintenance and Unsatisfac-

*tory Equipment.* Use equipment forms and records in accordance with instructions in TM 38-750.

- b. Report of Damaged or Improper Shipment. Fill out and forward DD Form 6 (Report of Damaged or Improper Shipment), as prescribed in AR 700–58, NAVSANDA Publication 378 (Navy), and AFR 71-4 (Air Force).
- c. Reporting Equipment Manual Improvements. The direct reporting, by the individual user, of errors, omissions, and recommendations for improving this equipment manual is authorized and encouraged. DA Form 2028 will be used for reporting these improvements. This form may be completed by the use of pencil, pen, or typewriter. DA Form 2028 will be completed in triplicate and forwarded by the individual using the manual. The original and one copy will be forwarded direct to: Commanding General, U. S. Army Electronics Command, ATTN: AMSEL-MR-MA, Fort Monmouth, New Jersey 07703. One information copy will be furnished to the individual's immediate supervisor (officer, noncommissioned officer, supervisor, etc).

#### Section II. DESCRIPTION AND DATA

#### 1-4. Purpose and Use

a. Purpose. Maintenance Kit, Electronic Equipment MK-722/URC (fig. 1-1) (Collins type maintenance kit 678Y-1, function test set 6782-1, and a transit case, which together are designated as a 678Y-3) provides a transportable means of servicing and aligning the modules of Receiver-Transmitter, Radio RT-698/ARC-102 (Collins type 618T-3) by means of module extenders. The module extenders permit the

modules to be operating while they are extended for convenient access and troubleshooting. Test Set, Radio TS-1956/URC (6782-1) is included as part of Maintenance Kit, Electronic Equipment MK-722/URC and acts as an accurate voltage comparator to set critical voltages in the RT-698/ARC-102. It is also used as a variable voltage source with three different source impedances for test purposes.

*b. Use.* The MK-722/URC is used for bench testing the RT-698/ARC-102.

#### 1-5. Technical Characteristics

a. General

Ambient temperature range:

Operating . . . . . . . . 0° C to 50° C. Nonoperating . . . . . 0° C to 50°C.

Ambient humidity range ..Prevailing laboratory or repair station environmental conditions.

Altitude Prevailing labora
tory or repair
station environ
mental conditions
Weight

b. TestSet, Radio TS-1956/URC.

Power requirements . . ...115 volts, 400 cps, singlephase, at approximately 0.08 amp.

#### 1-6. Table of Components

Note: This listing is based on the original shipment by the contractor on Order No. FR 11-022-C-4-26699(E). For the current official listing of components of individual models, see the basic issue items list (appx III).

Ougnalter	Component	Figure	D	Unit weight		
Quantity	Component	No.	Height	Depth	Width	(ib)
1	Extender, Module MX-4887/URC	1-3	13	8-1/2	12-23/32	0.936
1	Extender, Module MX-4888/URC	1-3	5-15/16	6-15/16	2-15/16	0.688
1	Extender, Module MX-4889/URC	1-3	6-15/16	4-1/4	1-1/2	0.688
1	Extender, Module MX-4890/URC	1-3	4-1/4	6-15/16	1-7/16	0.688
1	Extender, Module MX-4891/URC	1-3	7-5/16	4-9/16	2-15/16	0.68
1	Extender, Module MX-4892/URC	1-3	4-1/16	7-5/16	2-15/16	0.68
1	Extender, Module MX-4893/URC	1-3	6-15/16	4-5/16	1-7/16	0.31
1	Extender, Module MX-4894/URC	1-3	5-7/8	3	2-7/16	0.37
1	Extender, Module MX-4895/URC	1-3	6-15/16	5-15/16	2-15/16	0.62
1	Voltage Divider TS-1954/URC	1-6	3-1/8	1	15/16	0.06
1	Voltage Divider TS-1955/URC	1-6	3-1/8	1	15/16	0.06
1	Dummy Load, Electrical DA-340/URC	20, 1-6	3	1-5/16	1-1/16	0.12
1	Detector, Radio Frequency DT-278/URC	1-6	2-5/16	1	15/16	0.06
1	Cable Assembly, Radio Frequency CG-2549A/U (4 ft, 4 in.)	1-4	1		1	0.2
1	Cable Assembly, Radio Frequency CG-3126/U (4 ft, 4-1/2 in.)	1-4				0.2
1	Attenuator, Fixed CN-2730/URC	1-6	3-1/8	1	15/16	0.06
1	Adapter, Connector UG-274B/U	1-4	,			0.05
1	Adapter, Connector UG-914/U	1-4		1		0.06
1	Adapter, Connector UG-491B/U	1-4				0.06
1	Maintenance Fixture, Radio Set MT-3039/URC	1-5	21-3/4	10-9/16	2-3/16	2.0
6	Cable Assembly, Radio Frequency CG-2730/U (4 in.)	1-4		,	,	0.06
1	Test Set, Radio TS-1956/URC	1-1	8-3/4	5-1/2	9-1/8	5.0
1	Cable Assembly, Power Electrical CX-9009/URC (6 ft, 0.0 in.)	1-4				0.31
1	Lead, Test CX-9010/URC (2 ft)	1-4				0.03
1	Lead, Test CX-9011/URC (2 ft)	1-4				0.03
1	Lead, Test CX-9012/URC (2 ft)	1-4				0.03
1	Lead, Test CX-9013/URC (2 ft)	1-4				0.0
1	Lead, Test CX-9014/URC (2 ft)	1-4		İ		0.03
1	Lead, Test CX-9015/URC (2 ft)	1-4		1		0.03
1	Case, Maintenance Kit CY-4066/URC	1-1	13-7/32	18-7/8	32-25/32	13.0
1	Cable Assembly, Radio Frequency CG-2727/U (5 ft, 0.0 in.)	1-4	1 '	'	1	0.2
1	Frame, autopositioner	1, 1-6			1	0.1
1	Adapter, tube, 9-pin	1-6				0.0
ī	Adapter, tube, 7-pin	1-6	1			0.00

Quantity	Component		D	Unit weight		
Quantity	Component	Figure No.	Height	Depth	Width	(lb)
-				-		
1	Alignment tool No. 1	11, 1-6				0.02
1	Alignment tool No. 2	12, 1-6				0.02
1	Tuning tool	13, 1-6				0.02
1	Test probe No. 1	7, 1-6				0.0625
1	Test probe No. 2	8, l-6				0.0625
1	Test probe No. 3	9, 1-6				0.05
1	Pa tube extractor	19, 1-6				0.02
2	Plug, banana, shielded-cap	24, 1-6				0.0625
1	Wrench, Bristo, No. 8	16, 1-6				0.02
1	Wrench, Bristo, No. 4	15, 1-6				0.02
1	Wrench, Bristo, No. 8 (with handle)	18, 1-6				0.0625
1	Screwdriver, Phillip's, No. 2	10, 1-6				0.25
3	Screw, machine, 4-40 by 1/4	1-6				0.01
1	Dial, Scale	1-6				0.02
2	Setscrew, 4-40	1-6				0.01
1	Pointer	1-6				0.001
1	Module puller	5, 1-6				0.15

#### 1-7. Common Names

Nomenclature	Common name
Maintenance Kit, Electronic Equipment MK-722/URC	Maintenance kit
Extender, Module MX4887/URC	Rf translator module extender
Extender, Module MX4888/URC	Rf oscillator module ex- tender
Extender, Module MX4889/URC	Mc frequency stabilizer module extender
Extender, Module MX-4890/URC	Frequency divider mod- ule extender
Extender, Module MX-4891/URC	Amaudio amplifier module extender
Extender, Module MX-4892/URC	It. translator module extender
Extender, Module MX-4893/URC	Electronic control am- plifier module ex- tender
Extender, Module MX-4894/URC	Low-voltage power sup- ply module extender
Extender, Module MX4895/URC	Kc frequency stabilizer module extender
Voltage Divider TS-1954/URC	Capacity divider, 2-8
Voltage Divider TS-1955/URC	Capacity divider, 8-30 mc
Dummy Load, <b>Electrical</b> DA-340/ URC	Rf translator load
Detector, Radio Frequency DT- 278/URC	Neutralizing detector
Attenuator, Fixed CN-2730/URC Adaptor, Connector UG-274B/U	Generator load Adapter A17

Nomenclature	Common name
Adapter, Connector UG-914/U Adapter, Connector UG-491 B/U Maintenance Fixture, Radio Set MT-3039/URC	Adapter A18 Adapter A19 Radio test fixture
Cable Assembly, Radio Frequency CG-2730/U	Cable WS
Test Set, Radio, TS-1956/URC	Function test set
Cable Assembly, Power Electrical CX-9009/URC	Power cable
Lead, Test CX-9010/URC	Test lead W1
I.cad, Test CX-9011/URC	Test lead W2
I.cad, Test CX-9012/URC	Test lead W3
Lead, Test CX-9013/URC	Test lead W4
Lead, Test CX-9014/URC	Test lead W5
Lead, Test CX-9015/URC	Test lead W6
Case, Maintenance Kit CY-4066/ URC	Transit case
Cable Assembly, Radio Frequency CG-2727/U	Cable W7
Cable Assembly, Radio Frequency CG-3126/U	Cable W9
Cable Assembly, Radio Frequency CG-2549A/U	Cable W 10
Receiver-Transmitter, Radio RT-698/ARC-102	Receiver-transmitter

# 1-8. Description of Test Set, Radio TS-1956/URC

The function test set (fig. 1-2) is removable

from the transit case and is used to set critical voltages in the receiver-transmitter. All test connectors, switches, operating controls, and the function meter are on the front panel. The alternating current (ac) power connector is on . the side panel and the handle is on the top.

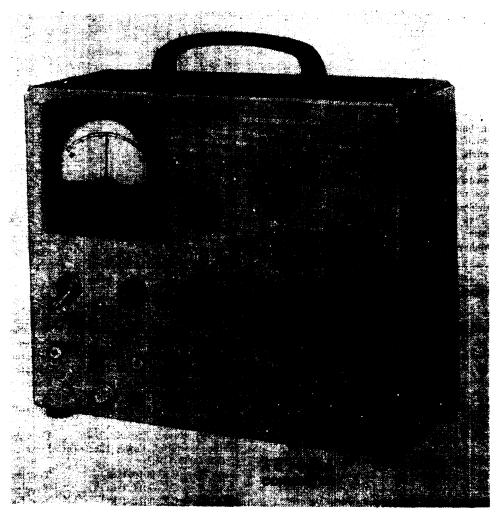


Figure 1-2. Function test set.

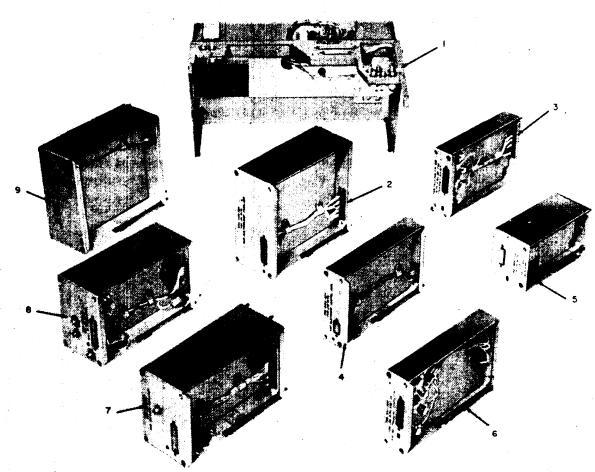
#### 1-9. Description of Minor Components

a. Transit Case (fig. 1–1). The transit case is of molded, reinforced, fiberglass construction with aluminum framework and hardware. It provides a dustproof, portable enclosure for the equipment, with an air relief valve (not shown) for airborne transportation. The transit case is composed of two parts. One half houses the function test set, module extenders, and the radio test fixture. The other half contains a closed compartment. When the door to this half is opened, access is provided to test cables, tools, adapters, loads, and other small parts. The two

halves are fastened together by four twistlock clamps.

b. Module Extenders (fig. 1-3). The module extenders are constructed of aluminum, in the shape of the module they replace. They permit the modules to be extended outside the receiver-transmitter chassis so they may be worked on while still being electrically and mechanically connected to the receiver-transmitter. Test points on the module extenders are connected to various pins on the module plugs. These test points facilitate the measurement of significant module voltages and signals. Nine module ex-

tenders are included, one for each module in the receiver-transmitter, except high-voltage power supply module A8 and power amplifier module



TM6625-623-12-4

- 1 Rf translator module extender
- Kc frequency stabilizer module extender Frequency divider module extender
- Electronic control amplifier module extender
- 5 Low-voltage power supply module extender
- 6 Mc frequency stabilizer module extender
- Am.-audio amplifier module extender If. translator module extender
- 9 Rf oscillator module extender

Figure 1-3. Module extenders.

- c. Cables, Test Leads, and Adapters (fig. 1-4). Five cables, six test leads and three adapters are provided as components of the maintenance kit. Each cable is identified by a metal band with the short nomenclature stamped on it. Following is a description of the cables, test leads, and adapters:
  - (1) Test lead W1. Test lead W1 is a singleconductor, rubber-covered cable, 2 feet long, with an orange jack tip at each end.
- (2) Test lead W2. Test lead W2 is a singleconductor, rubber-covered cable, 2 feet long, with a white jack tip at each end.
- (3) Test lead W3. Test lead W3 is a singleconductor, rubber-covered cable, 2 feet long, with a brown jack tip at each end.
- (4) Test lead W4. Test lead W4 is a singleconductor, rubber-covered cable, 2 feet long, with a red jack tip at each end.
- (5) Test lead W5. Test lead W5 is a single-

- conductor, rubber-covered cable, 2 feet long, with a yellow jack tip at each end.
- (6) Test lead W6. Test lead W6 is a single-conductor, rubber-covered cable, 2 feet long, with a jack tip at one end and a sleeve and clip on the other end.
- (7) Cable W7. Cable W7 is a coaxial, vinyl-covered cable, 5 feet long, with a male BNC connector on each end.
- (8) Cable W8. Cable W8 is a coaxial jumper cable, 1-34 inches long, with a male coaxial connector at each end.
- (9) Cable W9. Cable W9 is a coaxial, vinyl-covered cable, 4 feet long, with a male BNC connector on one end and a microphone jack tip on the other end.

- (10) *Cable W10.* Cable W10 is a coaxial, vinyl-covered cable, 4 feet long, with a male BNC connector on one end and a telephone plug on the other end.
- (11) Adapter A17. Adapter A17 is a BNC-type, T-adapter.
- (12) Adapter A18. Adapter A18 is a BNC-type, female straight adapter.
- (13) Adapter A19. Adapter A19 is a BNC-type, male straight adapter.
- (14) *Power cable.* The power cable is a two-conductor, rubber-covered cable, 6 feet long, with a two-prong twistlock male connector at one end and a mating female connector on the other end.

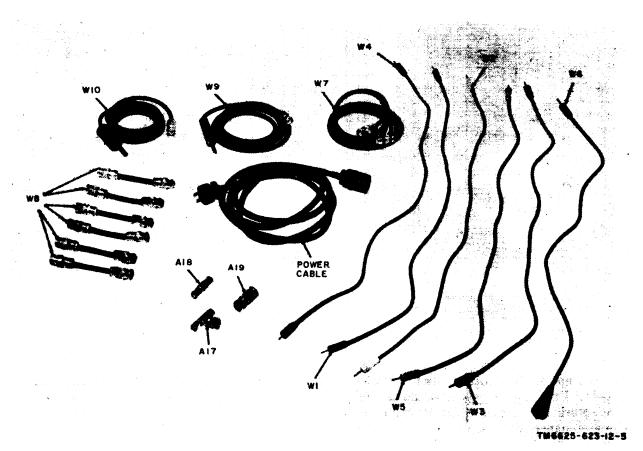


Figure 1-4. Cable, test leads, and adapters.

d. Radio Test Fixture (fig. 1-5). The radio test fixture contains two holddown clamps. It is used as a substitute for the aircraft shock

mount to hold the receiver-transmitter while it is being tested on the bench.

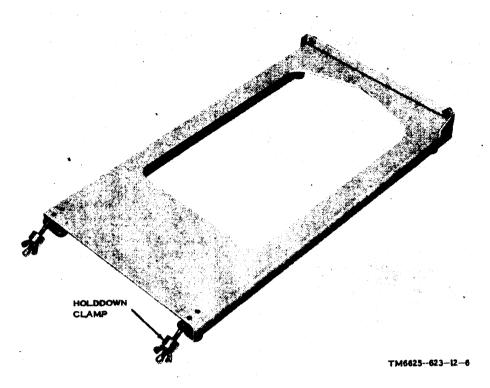
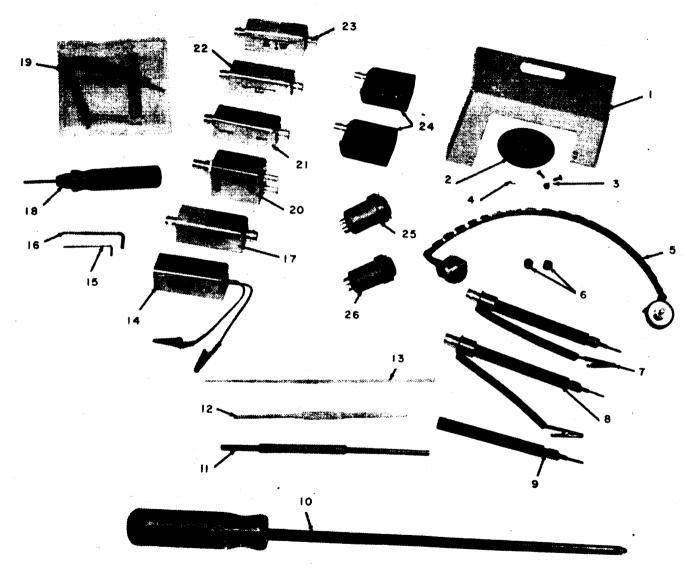


Figure 1-5. Radio test fixture.

- e. Autopositioner Alignment Aids (fig. 1-6). The autopositioner frame, dial, pointer, and three machine screws are used for alignment and testing the autopositioner in the receiver-transmitter.
- f. Capacity Dividers (fig. 1-6). The 2-8 megacycle (mc) and 8-30 mc capacity dividers are used as voltage dividers in the indicated frequency ranges.
- g. Rf Translator Load (fig. 1-6). The radiofrequency (rf) translator load is used as a

- dummy load when testing the rf translator module of the receiver-transmitter.
- *h. Generator Load* (fig. 22, 1–6). The generator load is used as an impedance matching device for the high-frequency (hf) signal generator.
- *i. Detector, 2-30 Mc* (fig. 21, 1–6). The 2-30 mc detector is used to transmit noise measurements.
- *j. Neutralizing Detector* (fig. 14, 1-6). The neutralizing detector is used in driver and feedback neutralizing adjustments.



TM6625-623-12-7

Figure 1-6, Small items.

```
1 Autopositioner frame
2 Dial
3 Machine screws, 4-40 x ½ (3)
4 Pointer
5 Module puller
6 Setscrews, 4-40 (2)
7 Test probe No. 1
8 Test probe No. 2
9 Test probe No. 3
10 No. 2 Phillip's screwdriver
11 Alignment tool No. 1
2 Alignment tool No. 2
13 Tuning tool

14 Neutralizing detector
15 Bristo wrench No. 4
16 Bristo wrench No. 8
17 Capacity divider, 8-30 mc
18 Pristo wrench No. 8 (with handle)
19 PA tube extractor
20 Rf translator load
21 Detector, 2-30 mc
22 Generator load
23 Capacity divider, 2-8 mc
24 Shielded-cap, double banana plug (2)
25 Tube extender, 9-pin
26 Tube extender, 7-pin
```

Figure 1-6. Small items.

#### **CHAPTER 2**

#### **OPERATION**

#### Section I. SERVICE UPON RECEIPT OF EQUIPMENT

#### 2-1. Unpacking

a. Packaging Data. All components of the maintenance kit are contained in the transit case. When packed for shipment, the air vent on the transit case is opened, find the maintenance kit is placed on four polystyrene corner blocks in the four bottom corners of a tri-wall fiberboard box. Four more corner blocks are placed on the top four corners of the maintenance kit. The box is then closed and taped shut. The box is 17-½ by 22-¼ by 26 inches; the corner blocks are 6 by 6 by 6 inches with cutouts of 4 by 4 by 4 inches; the total weight is 50 pounds; and the volume is 8.1 cubic feet. A typical shipping box and its contents are shown in figure 2-1.

#### b. Removing Contents.

- (1) Use a knife to cut the tape on the box. Open the four flaps.
- (2) Remove the four corner blocks from the top of the box. Remove the maintenance kit from the box.
- (3) Disengage the four twistlock clamps and open the transit case.
- (4) Unlock the access door by sliding the

two slidelock fasteners. Lift the door open.

#### 2-2. Checking Unpacked Equipment

- *a.* Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, refer to paragraph 1-3b.
- b. Check the equipment against the packing list. When no packing list accompanies the equipment, check the equipment against the list of equipment supplied (para 1-6) and report any overages or shortages on DD Form 6 (para 1-3 b).

Note: Shortages of minor assemblies or subassemblies, such as lamps or fuses, that do not affect the proper functioning of the equipment should not prevent use of the equipment.

c. If the equipment has been used or reconditioned, see whether it has been changed by a modification work order (MWO). If the equipment has been modified, the MWO number will appear on the front panel near the nomenclature plate. Check to see whether the MWO number and appropriate notations concerning the modification have been entered in this manual.

Note: Current MWO'S applicable to the equipment are listed in DA Pamphlet 310-4.

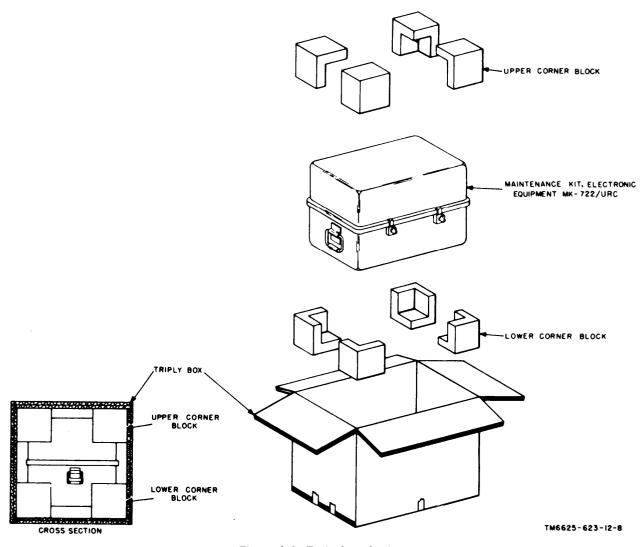


Figure 2-1. Typical packaging.

#### Section II. OPERATING INSTRUCTIONS

# 2-3. Controls, Indicators, and Connectors

(fig. 2-2)

The following chart lists the function test set controls, indicators, and connectors and indicates their functions.

Control, indicator, or connector	Function				
FUNCTION METER (null meter)	Indicates differences between junction test set reference voltages and signal voltages being checked.				
FUNCTION SELECTOR switch (nine- position rotary)	Selects proper test set function for circuit being checked or calibrated.				
•	Switch position	Action			
	SET LEVEL  Caution: Do not use the  X10 METER SENSITIVITY switch or meter may be dam-	Provides connection from LEVEL SET R1 control to set reference level of FUNCTION METER.			

Control, indicator, or connector		Function				
	OFF-SET ADJUST	Connects input at J1-KC STAB jack through OFF-SET ADJUST R2 control to FUNCTION METER.				
	70K-5 VFO BIAS	Connects inputs at J1-KC STAB jack and J3-KC STAB jack to FUNCTION METER.				
	70K-3 VFO BIAS	Connects inputs at J1-KC STAB jack and J3-KC STAB jack to FUNCTION METER.				
	10KC CONTROL BIAS (+20V)	Connects input at J4-KC STAB jack to FUNC- TION METER.				
	+18V	Connects input at J2-FREQ DIVIDER to FUNCTION METER.				
	TGC OVERIDE	Connects inputs at J2-FREQ DIVIDER and J2-IF TRANS jack through TGC AND CAPTURE RANGE R3 control to FUNCTION METER.				
	70K-5 CAPTURE RANGE	Connects inputs at J2-FREQ DIVIDER and J3-KC-STAB jacks through TGC & CAP-TURE RANGE R3 control to FUNCTION METER.				
	70K-3 CAPTURE RANGE	Connects inputs at J2-FREQ DIVIDER and J1-KC STAB jacks through TGC & CAP-TURE RANGE R3 control to FUNCTION METER.				
(10 METER SENSITIVITY switch (pushbutton)	Provides for fine meter reading.	MID I DA				
(p. t.	Switch position	Action				
	Normal	Does not affect meter reading.				
GC & CAPTURE RANGE R3 control	Depressed Increases meter sensitivity by a factor of 10. Overrides the receiver-transmitter gain control, and provides a variable bias to the voltage-controlled vfo.					
OFF-SET ADJUST R2 control		r null with J1-KC STAB jack connected to the dule.				
EVEL SET R1 control 15V AC pilot light DN-OFF switch (two-position toggle)	Adjusts FUNCTION METER for Indicates power on when illuminate Power switch.	full-scale reading.				
	Switch position	Action				
	ON	<ul> <li>115-volt, 400-cps power is connected.</li> <li>115-volt, 400-cps power is disconnected and a protective short is placed across FUNCTION METER.</li> </ul>				
2-IF TRANS jack	Provides electrical connections to translator module of the receiver	transmitter gain control (tgc) circuit in the if				
2-FREQ DIVIDER jack	Provides electrical connection to receiver-transmitter.	+18 vdc from the frequency divider module of the				
3-KC STAB jack	Provides electrical connection to function test set from kc frequency stabilizer module of the receiver-transmitter when making vfo bias adjustments.  Provides electrical connection to function test set from kc frequency stabilizer module of the receiver-transmitter when making vfo bias adjustments.					
1-KC STAB jack						
4-KC STAB jack	Provides electrical connection to function test set from kc frequency stabilizer module of the receiver-transmitter when making keyed oscillator adjustment.					
GRND jack CALIBRATE WITH 10:000V (two jacks)	Provides connection from function Provides electrical connection to fu- tion purposes.	test set ground to receiver-transmitter ground, unction test set from differential vtvm for calibra				
R4 potentiometer AUDIO OUT jack (BNC connector)	Calibrates 10.000 volts.  Provides audio output connection from the function test set to the MIKE jack of the TS-1949/URM-157.					

Control, indicator, or connector	Function
TEST POINT jack AUDIO IN NO. 1 and NO. 2 jack (2-BNC connectors)	Provides for measuring audio output from AUDIO OUT jack.  Provide electrical connection to function test set from audio oscillator.
Ac power connector (side panel)	Provides connection to 115-volt, 400-cps ac from 115-v, 400 CPS OUT jack on the TS-1949/URM-157.

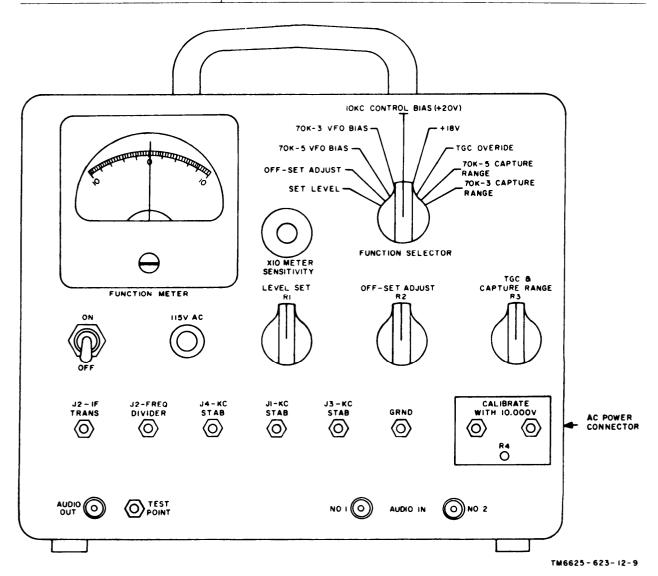


Figure 2-2. Function test set, controls, indicators, and connectors.

#### 2-4. Bench Test Procedures

To perform bench troubleshooting of the receiver-transmitter, perform the preliminary starting procedures in paragraph 2–5 and refer to TM 11–5821–248–35, for operating and troubleshooting procedures.

# 2-5. Preliminary Starting Procedure for Function Test Set

a. Control Settings. Set the function test set ON-OFF switch to OFF and FUNCTION SELECTOR switch to SET LEVEL.

b. Bench Test Connections. Figure 2-3 shows

typical bench test setup connections for testing the receiver-transmitter with the function test set and the TS-1949/URM-157 (test unit).

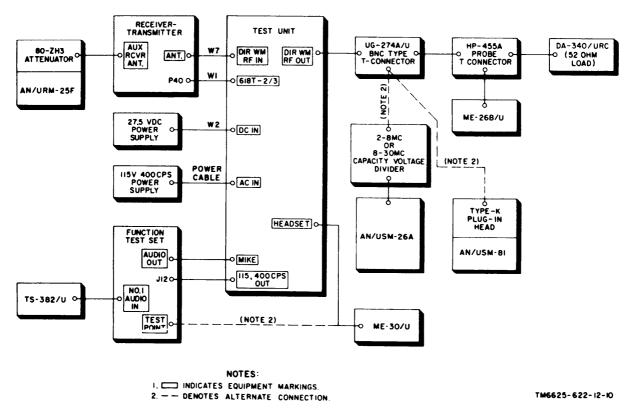


Figure 2-3. Typical bench test setup diagram.

## 2-6. Stopping Procedures for Function Test Set

*b.* Disconnect all cables from the function test set.

a. Set the ON-OFF switch to OFF.

#### CHAPTER 3

## MAINTENANCE INSTRUCTIONS

Note: The operator will perform operator and organizational maintenance.

### 3-1. Scope of Maintenance

The maintenance duties assigned to the operator are listed below, together with a reference to the paragraphs covering the specific maintenance functions. The paragraph includes instructions for performing preventive and corrective maintenance. No tools or materials other than those listed in paragraph 3–2 are required.

- a. Daily preventive maintenance checks and services (para 3–4).
  - b. Cleaning (para 3-6).
- c. Monthly preventive maintenance checks and services (para 3–7).
  - d. Preservation (para 3-9).
- *e.* Quarterly preventive maintenance checks and services (para 3–10).

# 3-2. Tools and Materials Required for Maintenance

- a. Phillip's screwdriver.
- b. Blade screwdriver.
- c. Lint-free cloth.
- d. Sandpaper, extra fine #000.
- e. Small, soft-bristled brush.
- f. Rubber electrician's tape.
- g. Materials for repainting.

#### 3-3. Preventive Maintenance

Preventive maintenance is systematic care, servicing, and inspection of equipment to prevent the occurrence of trouble, to reduce downtime, and to assure that the equipment is serviceable.

a. Systematic Care. The procedures given in

paragraphs 3–4 through 3–11 cover routine systematic care and cleaning essential to proper upkeep and operation of the equipment.

b. Preventive Maintenance Checks and Services. The preventive maintenance checks and service charts (para 3-5, 3-8, and 3-11) outline functions to be performed at specific intervals. These checks and services maintain Army electronic equipment in good general (physical) condition and in good operating condition. To assist operators in maintaining serviceability, the charts indicate what to check, how to check, and the normal conditions; the Reference column lists the paragraphs or manuals that contain supplementary information. If the defect cannot be remedied by performing the corrective action indicated, higher category of maintenance or repair is required. Records and reports of these checks and services must be made in accordance with the requirements set forth in TM 38-750.

# 3-4. Daily Preventive Maintenance Checks and Services

Preventive maintenance checks and services of the maintenance kit are required daily. A daily period is defined as 8 hours of equipment operation. Paragraph 3–5 specifies checks and services that must be accomplished daily or under the special conditions listed below.

- a. When the equipment is initially installed.
- b. When the equipment is reinstalled after removal for any reason.
- *c.* At least once each week if the equipment is maintained in a *standby* condition.

#### 3-5. Daily Preventive Maintenance Checks and Services Chart

Sequence No.	Item	Procedure	Reference
ı	Exterior surfaces	Clean the function test set panel and the function meter. Check for broken meter glass.	Para 3-6.
2	Knobs, switches, and lamps	<ul><li>a. During operation, see that the knobs, switches and lamps operate properly.</li><li>b. Tighten any loose knobs with the proper blade screwdriver.</li></ul>	
3	Operational test	c. If trouble remains, contact higher level of maintenance for repair. During operation, be alert for any unusual operating indications. If any unusual indications occur, remove all power and contact higher level of maintenance for repair.	Para 2-4 through 2-6.

#### 3-6. Cleaning

Inspect the exterior of the function test set, module extenders, and the transit case. The exterior surface should be clean, and free of dirt, grease, and fungus. Perform the following procedures as specified in the daily preventive maintenance checks and services chart.

Caution: Do not press on the meter face when cleaning; the meter may become damaged.

- *a.* Remove all loose foreign materials with a clean, lint-free cloth.
- *b.* Remove grease, fungus, and ground-in dirt with a cloth dampened (not wet) with water and a mild soap.

Caution: Do not use any cleaning solvent on the front panels or where silk screening is used.

*c.* Remove dust or dirt from the connectors with a soft-bristled brush.

# 3-7. Monthly Preventive Maintenance Checks and Services

Perform the maintenance functions indicated in the monthly preventive maintenance checks and services chart (para 3-8) once each month in addition to the daily preventive maintenance checks and services (para 3-5). A month is defined as approximately 30 calendar days of 8-hour-per-day operation. Adjustment of the maintenance interval must be made to compensate for unusual operating conditions. Equipment maintained in a standby (ready for immediate operation) condition must have monthly preventive maintenance checks and services performed on it. Equipment in limited storage (requires service before operation) does not require monthly preventive maintenance.

## 3-8. Monthly Preventive Maintenance Checks and Services Chart

Sequence No.	Item	Procedure	Reference
1	Cables and module extenders	<ul> <li>a. Inspect the cables for deterioration and damage, such as cuts, cracks, or frayed insulation. Repair minor damage to insulation by covering the damaged area with rubber electrician's tape. Replace defective cables.</li> <li>b. Inspect the module extenders for damage, such as bent or missing connector pins. Refer to higher level of maintenance for repair.</li> </ul>	
2	Connectors, jacks, and screws	a. Hand check these exterior items for looseness. Tighten all loose exterior items.	
3	Exterior surfaces	b. See that no screws are loose or missing and tighten all loose screws.  Inspect all exposed metal surfaces for rust and corrosion. Touch up surfaces.	Para 3-9.

#### 3-9. Preservation

Remove rust and corrosion from metal surfaces by highly sanding therewith #000 sand-paper. Brush two thin coats of paint on the bare metal to protect it from further corrosion. Refer to the applicable cleaning and refinishing practices specified in TB Sig 364.

# 3-10. Quarterly Preventive Maintenance Checks and Services

Perform the maintenance functions indicated in the quarterly preventive maintenance checks and services chart (para 3–11) once each 3 months (quarterly interval) in addition to the daily (para 3–5) a monthly (para 3-8) preventive maintenance checks and services. A quarterly interval is defined as 90 calendar days of 8-hour-per-day operation. All deficiencies or shortcomings will be recorded, and those not corrected during the maintenance service and inspection will be immediately reported to higher level of maintenance by the use of forms and procedures specified by TM 38-750. Equipment with a deficiency that cannot be corrected at the organizational level should be deadlined in accordance with TM 38–750.

## 3-11. Quarterly Preventive Maintenance Checks and Services Chart

Sequence No.	Item	Procedure	Reference
1	Completeness	See that the maintenance kit is complete.	Appx III.
2	Publications	Check to see that all pertinent publications are available. The technical manuals must be complete and in usable condition without missing pages. All Changes pertinent to the publications must be on hand.	••
3	Modification work orders	Check to see that all URGENT MWO's have been applied and that all NORMAL MWO's have been scheduled.	DA PAM 310-4.

Note: Each 6 months the function test set is to be sent to a higher level of maintenance for calibration.

#### **CHAPTER 4**

## SHIPMENT, LIMITED STORAGE, AND DEMOLITION TO PREVENT ENEMY USE

#### Section I. SHIPMENT AND LIMITED STORAGE

### 4-1. Disassembly of Equipment

Prepare the maintenance kit for shipment and storage as follows:

- a. Disconnect the cables and test leads.
- *b.* Roll up the cables and test leads and place them in the cable storage space inside the transit case cover.
- c. Place the voltage dividers, adapters, test probes, dummy load, attenuator, neutralizing detector, rf jumpers, and the alignment and maintenance tools in their proper places inside the transit case cover, and close the door.
- *d.* Place the function test set, module extenders, and radio test fixture in the places for them in the bottom half of transit case.
- *e.* Place the cover on the lower half of the transit case.
- f. Secure the four twistlock clamps on the sides of the transit case.

# 4-2. Repackaging for Shipment and Limited Storage

The exact procedure for repackaging depends on the material available and the conditions under which the equipment is to be shipped (b below) or stored (c below). Adapt the procedures outlined below whenever circumstances permit.

a. Material Requirements. The following materials are required for packaging the maintenance kit for shipment. For stock numbers of materials, consult SB 38-100.

Material	Quantity
Tri-ply fiberboard box Polystyrene blocks Nylon tape	17-1 /2 x 22-1/2 x 36 inches 6 x 6 inches, 8 each 10 feet

Caution: Be sure the air vent on the end of the transit case is open before packaging for air shipment.

- b. Packaging for Shipment. See paragraph2-1 for detailed packaging instructions.
- c. Packaging for Limited Storage. The transit case provides adequate protection for the other components of the maintenance kit during limited storage. The case is corrosiveresistant and is sealed by a rubber gasket which, with the air vent closed, makes the case interior airtight and moistureproof.

## Section II. DEMOLITION OF MATERIEL TO PREVENT ENEMY USE

#### 4-3. Authority for Demolition

The demolition procedures in paragraph 4-4 will be used to prevent the enemy from using or salvaging this equipment. Demolition of the equipment will be accomplished only upon the order of the commander.

#### 4-4. Methods of Destruction

The tactical situation and time available will

determine the method to be used when destruction of equipment is ordered. In most cases, it is preferable to demolish completely some portions of the equipment rather than partially destroy all the equipment units.

- a. *Smash.* Use sledges, axes, hammers, crowbars, and any other heavy tools available to smash the interior units of the maintenance kit.
  - (1) Use the heaviest tool on hand to smash

the connectors, meter, knobs, dials, and switches.

Note: Heavy tools will effectively destroy the external parts mentioned in (1) above, but the remainder of the exposed surfaces of the equipment are constructed of steel plate; attempts to damage it by smashing will be useless.

- (2) Remove the units from the transit case. With a heavy hammer or bar, smash as many of the exposed parts of the chassis as possible.
- b. *Cut*. Use axes, handaxes, machetes, and similar tools to cut cables and wiring. Use a heavy axe or machete to cut the cables. Cut all cords and cables in a number of places.

*Warning:* Be extremely careful with explosives and incendiary devices. Use **these items** only when the need is urgent.

c. Burn. Burn the technical manuals first. Burn as much of the equipment as is flammable; use gasoline, oil, flamethrowers, and similar ma-

terials. Pour gasoline on the cut cables and internal wiring and ignite it. Use a flame-thrower to burn spare parts or pour gasoline on the spares and ignite them. Use incendiary grenades to complete the destruction of the maintenance kit.

- d. Explode. Use explosives to complete demolition or to cause maximum damage before burning, when time does not permit complete demolition by other means. Powder charges, fragmentation grenades, or incendiary grenades may be used. Incendiary grenades usually are most effective if destruction of small parts and wiring is desired.
  - (1) Use a fragmentation grenade to destroy the interior of the maintenance kit. Drop the grenade into the interior of the maintenance kit.
- e. *Dispose.* Bury or scatter destroyed parts or throw them into nearby waterways. This is particularly important if 2 number of parts have not been completely destroyed.

# APPENDIX 1

# **REFERENCES**

available to the organ	f applicable publications nizational repairman of ctronic Equipment MK-	TB Sig 364	Field Instructions for Painting and Pre- serving Electronics Command Equip-
DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, supply Manuals (Types 4, 6, 7, 8, and 9), Sup- ply Catalogs (Type	TM 11-5821-248-35	ment.  Direct and General Support and Depot Maintenance Man- ual, Radio Set AN/ ARC-102.
CD 20 100	CL), Supply Bulletins, Lubrication Orders, and Modification Work Orders.	TM 11-6625-622-12	Operator and Organizational M a i n t e nance Manual, Test Harness, Radio Set
SB 38-100	Preservation, Packag- ing, and Packing Materials, Supplies and Equipment Used by the Army.	TM 38-750	AN/URM-157.  Army Equipment Record Procedures.

#### APPENDIX II

#### MAINTENANCE ALLOCATION

#### Section I. INTRODUCTION

#### A2-1. General

- a. This appendix assigns maintenance functions to be performed on components, assemblies, and subassemblies by the lowest appropriate maintenance category.
- *b.* Columns in tile maintenance allocation chart are as follows:
  - (1) Part or component. This column shows only the nomenclature or standard item name. Additional descriptive data are included only where clarification is necessary to identify the component. Components, assemblies, and subassemblies are listed in top-down order. That is, the assemblies which are part of a component are listed immediately below that component, and the subassemblies which are part of an assembly are listed immediately below that assembly. Each generation breakdown (components, assemblies, or subassemblies) is listed in disassembly order or alphabetical order.
  - (2) Maintenance function. This column indicates the various maintenance functions allocated to the categories.
    - (a) Service. To clean, to preserve, and to replenish lubricants.
    - (b) Adjust. To regulate periodically to prevent malfunction.
    - (c) Inspect. To verify serviceability and to detect incipient electrical or mechanical failure by scrutiny.
    - (d) Test. To verify serviceability and to detect incipient electrical or mechanical failure by use of special equipment such as gages, meters, etc.

- (e) Replace. To substitute serviceable components, assemblies, or subassemblies. for unserviceable components. assemblies, or subassemblies.
- (f) Repair. To restore an item to serviceable condition through correction of a specific failure or unserviceable condition, This function includes but is not limited to welding, grinding, riveting, straightening, and replacement of parts other than the trial and error replacement of running spare type items such as fuses, lamps, or electron tubes.
- (g) Align. To adjust two or more components of an electrical system so that their functions are properly synchronized.
- (h) Calibrate. To determine, check, or rectify the graduation of an instrument, weapon, or weapons system, or components of a weapons system.
- (i) Overhaul. To restore an item to completely serviceable condition as prescribed by serviceability standards developed and published by heads of technical services. This is accomplished through employment of the technique of "inspect and Repair Only as Necessary" (IROAN). Maximum utilization of diagnostic and test equipment is combined with minimum disassembly of the item during the overhaul process.
- (j) Rebuild. To restore an item to a standard as near as possible to original or new condition in appearance, performance, and life ex-

- pectancy. This is accomplished through the maintenance technique of complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements using original manufacturing tolerances and/or specifications and subsequent reassembly of the item.
- (3) Operator, organization, direct and general support, and depot. The symbol X indicates the category responsible for performing that particular maintenance operation, but does not necessarily indicate that repair parts will be stocked at that level. Categories higher than those marked by X are authorized to perform the indicated operation.
- (4) Tools required. This column indicates codes assigned to each individual tool equipment, test equipment, and maintenance equipment referenced. The grouping of codes in this column of the maintenance allocation chart indicates the tool, test, and maintenance equipment required to perform the maintenance function.

- (5) *Remarks.* Entries in this column will be utilized when necessary to clarify any of the data cited in the preceding column.
- c. Columns in the allocation of tools for maintenance functions are as follows:
  - (1) Tools required for maintenance functions. This column lists tools, test, and maintenance equipment required to perform the maintenance functions.
  - (2) Operator, organization, direct and general support, and depot. The dagger (†) indicates the categories normally allocated the facility.
  - (3) *Tool code.* This column lists the tool code assigned.

#### A2-2. Maintenance by Using Organizations

When this equipment is used by signal services organizations organic to theater head-quarters or communication zones to provide theater communications, those maintenance functions allocated up to and including general support are authorized to the organization operating this equipment.

SECTION II. MAINTENANCE ALLOCATION CHART

PART OR COMPONENT	MAINTENANCE			CHEL			TOOLS REQUIRED	REMARKS
	FUNCTION	10 · C	0	DS	GS	D		
MAINTENANCE KIT, ELECTRONIC EQUIPMENT		ţ	   <b>X</b>		!			
	service		î.	1		1 1		
MK-722/URC	inspect			1	i	1	-	
	test	1	X	-	į.	1 1	5	Continuity and Operational
	repair		X	1		1 1	5	Replace fuses, knobs, lamps
	overhaul	1			X	i l	1, 2, 3, 4, 6	Including calibration on alignment
				i	1		•	of test set
ATTENUATOR, FIXED	replace	1	ĺ		x		4	
•	repair		:	į	X	1	4	
CABLE ASSEMBLIES, RF	service	1	x			1		
CADEC ASSEMBLIES, RI	test		^	1		1 1	5	Continuity
	test				X	1	i	Continuity
	replace				⊤ <b>x</b>	1 1	1	
	replace				â	1	4	
	repuii			:	^		7	
DETECTOR, RF DT-278/ARC-102	inspect		X	1	:	1 1		
	test		:		, X	. i	1	
	replace			1	X	1 1		
	repair	ì		i	X	1	4	
DIAL, SCALE	service		X	1				
DIAD, DANCE	- inspect	1	X	i	i	1 1		
	replace		. ^•	i	X	1 1		
	repair	1	1		X		4	
DUMBY 164D DIFFERENCES DA THE (ADC 140								
DUMMY LOAD, ELECTRICAL DA-340/ARC-102	replace	!	+	!	X		4	
	repair	į.		:	^	1	4	
EXTENDERS, MODULE MX-4887/ARC-102;	service		X	1	i	1 .		
MX-4888/ARC-102; MX-4889/ARC-102;	inspect	-	X		1			
MX-4890/ARC-102; MX-4891/ARC-102;	test	1			i X		1,2	
MX-4892/ARC-102; MX-4893/ARC-102;	replace			1	X	. 1	4	
MX-4894/ARC-102; MX-4895/ARC-102	•							
MAINTENANCE FIXTURE MT-3039/ARC-102	service	-	x					
1000//MG 102	inspect		ı X		į	1 1		
	replace	-	1	1	X			
	repair		1		X			
		1	1	1				
PRODS, TEST NO. 1; No. 2; No. 3	inspect	- 1	X	i	1	1		
	replace	- 1	1	i	X		_	
	repair	Ì	1	į	X		4	
TEST SET	service		X	i				
	inspect	- 1	X		1			
	repair	1	X				5	Replace fuses, knobs, lamps
	overhaul		i		X	1	1, 2, 3, 4, 6	Including calibration or alignment
	i	- 1	1				· · · · ·	of reference voltages.
VOLTAGE DIVIDER TS-1955/ARC-102	service		x	į	1	ļ		
1051A05 D111D5R 15-1700/ARG-102	inspect		X		İ			I
	test	į	^		X		1	
		ļ	ì				1	İ
	replace		1		X		4	1
	repair MK-722/URC		_1		^		<u> </u>	Army-Ft Monmouth, NJ-M

	İ	E	ECHEL	ON		τοοι	
TOOLS REQUIRED FOR MAINTENANCE FUNCTIONS	O/C	0	DS	GS	D		REMARKS
MK-722/URC (continued)							
MULTIMETER TS-352/U				+	+	1	
MULTIMETER, METER ME-26/U				+	+	2	
POWER SUPPLY PP-351/U				+	+	3	
TOOL KIT, ELECTRONIC EQUIPMENT TK-100/G				+	†	4	
TOOLS AND TEST EQUIPMENT Normally Available to the Repairman-User Because of His Assigned Mission		+				5	
VOLTMETER, ELECTRONIC AN/USM-98				+	+	6	
	1						
	;						
	1						

VIK-722/UHC

## **APPENDIX III**

#### **BASIC ISSUE ITEMS LIST**

#### Section I. INTRODUCTION

#### A3-1. General

This appendix lists items supplied for initial operation. The list includes tools, parts, and material issued as part of the major end item. The list includes all items authorized for basic operator maintenance of the equipment. End items of equipment are issued on the basis of allowances prescribed in equipment authorization tables and other documents that are a basis for requisitioning.

#### A3-2. Columns

Columns are as follows:

- a. Federal Stock Number. This column lists the 1 l-digit Federal stock number.
  - b. Designation by Model. Not used.

- c. *Description*. Nomenclature or the standard item name and brief identifying data for each item are listed in this column. When requisitioning, enter the nomenclature and description.
- d. Unit of Issue. The unit of issue is each unless otherwise indicated and is the supply term by which the individual item is counted for procurement, storage, requisitioning, allowances, and issue purposes.
- e. *Expendability*. Nonexpendable items are indicated by NX. Expendable items are not annotated.
- f. Quantity *Authorized*, Under "Items Comprising an Operable Equipment," the column lists the quantity of items supplied for the initial operation of the equipment.
  - g. Illustration. Not used.

N/ MODEL	DESCRIPTION  AINTENANCE KIT, ELECTRONIC EQUIPMENT MK-722/URC: prov1des	OF ISSUE	EXP	QTY AUTH	FIGURE	ITEM
M	AINTENANCE KIT, ELECTRONIC EQUIPMENT MK-722/URC: provides				NO.	NO.
	module extenders, adapter cables, and special tools so that adjustments may be preformed for the Radio Sets AN/ARC-102 and AN/MRC-95. A complete operational check is provided when used in conjunction w/test harness AN/URM-157; Collins Radio p/n 522-3401.005 (M5AD2-A001)		NX			
TI	ECHNICAL MANUAL TM 11-6625-623-12			2	]	
AI	DAPTER, CABLE UG-274B/U:			1		
AI	DAPTER, CONNECTOR UG-491B/U: 1 cont; 2 connector mating ends; MIL type MS35176			1		
AI	DAPTER, CONNECTOR UG-914/U			1		
AI	DAPTER, CONNECTOR: Pomona Elec p/n 1645			2		
IA   AI	LIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; hexagon socket; 5.123 in 1g o/a; GC Elec p/n 8606			1		
1 1 1 1 1	LIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; slot type; 5.999 in lg o/a; Jaco Prod p/n 024-0309-00; Collins Radio p/n 024-0309-00			1		
ra	TTENUATOR, FIXED CN-1066/URC: 3.125 in lg x 0.937 in wd x 1 in h o/a Collins Radio p/n 548-3522-002		NX	1		
В	AG, COTTON DUCK: drawstring enclosure; 6 in $\log x$ 4 in wd National Bag Co. p/n $104N4X6$			1		
CA	ABLE ASSEMBLY, RF CG-2549A/U: 4 ft 4 in; plug UG-88E/U on one end; Plug, telephone PR Mallory p/n 75 other end; Collins Radio p/n 548-3489-002 (M5AD2-AO19)			1		
C	ABLE ASSEMBLY, RF CG-2727/U: 5 ft			1		
CA	ABLE ASSEMBLY, RF CG-2730/U: plug UG-88E/U on ea end; Collins Radio p/n 546-7321-002			6		
CA	ABLE ASSEMBLY, RF CG-3126/U: 4 ft 4 in; plug UG-88E/U on one end; other end, plug telephone PJ068; Collins Radio 548-3490-002 (M5AD2-A023)			1		
	A A A A C C C C	ADAPTER, CONNECTOR UG-914/U  ADAPTER, CONNECTOR: Pomona Elec p/n 1645  ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; hexagon socket; 5.123 in 1g o/a; GC Elec p/n 8606  ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; slot type; 5.999 in 1g o/a; Jaco Prod p/n 024-0309-00; Collins Radio p/n 024-0309-00  ATTENUATOR, FIXED CN-1066/URC: 3.125 in 1g x 0.937 in wd x 1 in h o/a Collins Radio p/n 548-3522-002  BAG, COTTON DUCK: drawstring enclosure; 6 in 1g x 4 in wd National Bag Co. p/n 104N4X6  CABLE ASSEMBLY, RF CG-2549A/U: 4 ft 4 in; plug UG-88E/U on one end; Plug, telephone PR Mallory p/n 75 other end; Collins Radio p/n 548-3489-002 (M5AD2-A019)  CABLE ASSEMBLY, RF CG-2730/U: plug UG-88E/U on ea end; Collins Radio p/n 546-7321-002  CABLE ASSEMBLY, RF CG-3126/U: 4 ft 4 in; plug UG-88E/U on one end; other end, plug telephone PJ068; Collins Radio	ADAPTER, CONNECTOR UG-491B/U: 1 cont; 2 connector mating ends; MIL type MS35176  ADAPTER, CONNECTOR UG-914/U  ADAPTER, CONNECTOR: Pomona Elec p/n 1645  ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; hexagon socket; 5.123 in 1g o/a; GC Elec p/n 8606  ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; slot type; 5.999 in 1g o/a; Jaco Prod p/n 024-0309-00; Collins Radio p/n 024-0309-00  ATTENUATOR, FIXED CN-1066/URC: 3.125 in 1g x 0.937 in wd x 1 in h o/a Collins Radio p/n 548-3522-002  BAG, COTTON DUCK: drawstring enclosure; 6 in 1g x 4 in wd National Bag Co. p/n 104N4X6  CABLE ASSEMBLY, RF CG-2549A/U: 4 ft 4 in; plug UG-88E/U on one end; Plug, telephone PR Mallory p/n 75 other end; Collins Radio p/n 548-3489-002 (M5AD2-A019)  CABLE ASSEMBLY, RF CG-2727/U: 5 ft  CABLE ASSEMBLY, RF CG-2730/U: plug UG-88E/U on ea end; Collins Radio p/n 546-7321-002  CABLE ASSEMBLY, RF CG-3126/U: 4 ft 4 in; plug UG-88E/U on one end; other end, plug telephone PJ068; Collins Radio	ADAPTER, CONNECTOR UG-491B/U: 1 cont; 2 connector mating ends; MIL type MS35176  ADAPTER, CONNECTOR UG-914/U  ADAPTER, CONNECTOR: Pomona Elec p/n 1645  ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; hexagon socket; 5.123 in 1g o/a; GC Elec p/n 8606  ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; slot type; 5.999 in 1g o/a; Jaco Prod p/n 024-0309-00; Collins Radio p/n 024-0309-00  ATTENUATOR, FIXED CN-1066/URC: 3.125 in 1g x 0.937 in wd x 1 in h o/a Collins Radio p/n 548-3522-002  BAG, COTTON DUCK: drawstring enclosure; 6 in 1g x 4 in wd National Bag Co. p/n 104N4X6  CABLE ASSEMBLY, RF CG-2549A/U: 4 ft 4 in; plug UG-88E/U on one end; Plug, telephone PR Mallory p/n 75 other end; Collins Radio p/n 548-3489-002 (M5AD2-A019)  CABLE ASSEMBLY, RF CG-2730/U: plug UG-88E/U on ea end; Collins Radio p/n 546-7321-002  CABLE ASSEMBLY, RF CG-3126/U: 4 ft 4 in; plug UG-88E/U on one end; other end, plug telephone PJ068; Collins Radio	ADAPTER, CONNECTOR UG-491B/U: 1 cont; 2 connector mating ends; MIL type MS35176  ADAPTER, CONNECTOR UG-914/U  ADAPTER, CONNECTOR: Pomona Elec p/n 1645  ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; hexagon socket; 5.123 in 1g o/a; GC Elec p/n 8606  ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; slot type; 5.999 in 1g o/a; Jaco Prod p/n 024-0309-00; Collins Radio p/n 024-0309-00  ATTENUATOR, FIXED CN-1066/URC: 3.125 in 1g x 0.937 in wd x 1 in h o/a Collins Radio p/n 548-3522-002  BAG, COTTON DUCK: drawstring enclosure; 6 in 1g x 4 in wd National Bag Co. p/n 104N4x6  CABLE ASSEMBLY, RF CG-2549A/U: 4 ft 4 in; plug UG-88E/U on one end; Plug, telephone PR Mallory p/n 75 other end; Collins Radio p/n 548-3489-002 (M5AD2-A019)  CABLE ASSEMBLY, RF CG-2727/U: 5 ft  CABLE ASSEMBLY, RF CG-2730/U: plug UG-88E/U on ea end; Collins Radio p/n 546-7321-002  CABLE ASSEMBLY, RF CG-3126/U: 4 ft 4 in; plug UG-88E/U on one end; other end, plug telephone PJ068; Collins Radio	ADAPTER, CONNECTOR UG-491B/U: 1 cont; 2 connector mating ends; MIL type MS35176  ADAPTER, CONNECTOR UG-914/U  ADAPTER, CONNECTOR: Pomona Elec p/n 1645  ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; hexagon socket; 5.123 in 1g o/a; GC Elec p/n 8606  ALIGNMENT TOOL, ELECTRONIC EQUIPMENT: wrench type; slot type; 5.999 in 1g o/a; Jaco Prod p/n 024-0309-00; Collins Radio p/n 024-0309-00  ATTENUATOR, FIXED CN-1066/URC: 3.125 in 1g x 0.937 in wd x 1 in h o/a Collins Radio p/n 548-3522-002  BAG, COTTON DUCK: drawstring enclosure; 6 in 1g x 4 in wd National Bag Co. p/n 104N4X6  CABLE ASSEMBLY, RF CG-2549A/U: 4 ft 4 in; plug UG-88E/U on one end; Plug, telephone PR Mallory p/n 75 other end; Collins Radio p/n 548-3489-002 (M5AD2-AO19)  CABLE ASSEMBLY, RF CG-2727/U: 5 ft  CABLE ASSEMBLY, RF CG-2730/U: plug UG-88E/U on ea end; Collins Radio p/n 546-7321-002  CABLE ASSEMBLY, RF CG-3126/U: 4 ft 4 in; plug UG-88E/U on one end; other end, plug telephone PJ068; Collins Radio

6 <b>6</b> 25-019-6316 5 <b>8</b> 21-081-3957 5 <b>8</b> 21-019-6315 6625-019-6301	DESCRIPTION  MK-722/URC (continued)  CABLE ASSEMBLY, POWER, ELECTRICAL CX-9009/URC: plug, Hubbell p/n 7429 on one end, plug, GE p/n 4725-3 other end; Collins Radio p/n 548-3539-002 (M5AD2-A310)  CASE, MAINTENANCE KIT CY-4066/URC: provides for storage and transit of maintenance kit, Electronic Equipment MK-722/URC; Skydyne p/n SK625200 (M5AD2-A031)  DETECTOR, RADIO FREQUENCY DT-278/URC: used in neutrailizing the driver circuits of the RF Translator module; Collins Radio p/n 548-3533-002  DIAL, SCALE: 0 to 90 cw; 2 in dia x 0.188 in thk; Collins Radio p/n 548-3530-002  DUMMY LOAD, ELECTRICAL DA-340/URC: provides RF translator module	OF	NX	auth 1	FIGURE NO.	ITEM NO.
6 <b>6</b> 25-019-6316 5 <b>8</b> 21-081-3957 5 <b>8</b> 21-019-6315 6625-019-6301	CABLE ASSEMBLY, POWER, ELECTRICAL CX-9009/URC: plug, Hubbell p/n 7429 on one end, plug, GE p/n 4725-3 other end; Collins Radio p/n 548-3539-002 (M5AD2-A310)  CASE, MAINTENANCE KIT CY-4066/URC: provides for storage and transit of maintenance kit, Electronic Equipment MK-722/URC; Skydyne p/n SK625200 (M5AD2-A031)  DETECTOR, RADIO FREQUENCY DT-278/URC: used in neutrallizing the driver circuits of the RF Translator module; Collins Radio p/n 548-3533-002  DIAL, SCALE: O to 90 cw; 2 in dia x 0.188 in thk; Collins Radio p/n 548-3530-002		NX	1		
6 <b>6</b> 25-019-6316 5 <b>8</b> 21-081-3957 5 <b>8</b> 21-019-6315 6625-019-6301	p/n 7429 on one end, plug, GE p/n 4725-3 other end; Collins Radio p/n 548-3539-002 (M5AD2-A310)  CASE, MAINTENANCE KIT CY-4066/URC: provides for storage and transit of maintenance kit, Electronic Equipment MK-722/URC; Skydyne p/n SK625200 (M5AD2-A031)  DETECTOR, RADIO FREQUENCY DT-278/URC: used in neutrallizing the driver circuits of the RF Translator module; Collins Radio p/n 548-3533-002  DIAL, SCALE: O to 90 cw; 2 in dia x 0.188 in thk; Collins Radio p/n 548-3530-002		NX	1		
6 <b>6</b> 25-019-6316 5 <b>8</b> 21-081-3957 5 <b>8</b> 21-019-6315 6625-019-6301	transit of maintenance kit, Electronic Equipment MK-722/URC; Skydyne p/n SK625200 (M5AD2-AO31)  DETECTOR, RADIO FREQUENCY DT-278/URC: used in neutrailizing the driver circuits of the RF Translator module; Collins Radio p/n 548-3533-002  DIAL, SCALE: O to 90 cw; 2 in dia x 0.188 in thk; Collins Radio p/n 548-3530-002		NX			
5821-081-3957 5821-019-6315 6625-019-6301	the driver circuits of the RF Translator module; Collins Radio p/n 548-3533-002  DIAL, SCALE: O to 90 cw; 2 in dia x 0.188 in thk; Collins Radio p/n 548-3530-002		NX	1		
5821-019-6315 6625-019-6301	Radio p/n 548-3530-002					
6625-019-6301	DUMMY LOAD. ELECTRICAL DA-340/URC: provides RF translator module			1		
	w/dummy load for test purposes; Collins Radio #549-0989-003		ИХ	1		i
6625-019-6311	EXTENDER, MODULE MX-4887/URC: extends the RF translator module of the RT-698/ARC-102 for testing; Collins Radio p/n 548-3452-00		NX	1		
	EXTENDER, MODULE MX-4888/URC: extends the RF oscillator module of the RT-698/ARC-102 for testing; Collins Radio p/n 548-3463-004		NX	1		:
6625-019-6303	EXTENDER, MODULE MX-4889/URC: extends frequency stablizier module of the Receiver-Transmitter, Radio RT-698/ARC-102 for testing; Collins Radio p/n 548-3501-004		ΝХ	1		
6625-019-6304	EXTENDER, MODULE MX-4890/URC: extends frequency divider module of the Receiver-Transmitter, Radio RT-698/ARC-102 for testing; Collins Radio p/n 548-3502-004		NX	1		
6625-019-6310	EXTENDER, MODULE MX-4891/URC: extends the AM/AUDIO module of RT-698/ARC-102 for testing; Collins Radio p/n 548-3461-004		NX	1		
6625-083-7311	EXTENDER, MODULE MX-4892/URC: extends the IF Translator module of RT-698/ARC-102 for testing; Collins Radio p/n 548-3505-00		NX	1		
6625-019-6305	EXTENDER MODULE MX-4893/URC: extends the Amplifier module of RT-698/ARC-102 for testing; Collins Radio p/n 548-3543-004		NX	1		

FEDERAL	DESIGNATION		ON.		UNIT		OTY	ILLUSTI	RATION	
STOCK NUMBER	_	BY M			DESCRIPTION	OF	EXP	AUTH	FIGURE NO.	ITEM NO.
	1		П		MK-722/URC (continued)					
6625-019 <b>-</b> 6306					EXTENDER, MODULE MX-4894/URC: extends the low voltage power supply of RT-698/ARC-102 for testing; Collins Radio p/n 548-3455-004		NX	1		
<b>6625</b> -019 <b>-</b> 6309					EXTENDER, MODULE MX-4895/URC: extends the frequency stabilizer module of RT-698/ARC-102 for testing; Collins Radio p/n 548-3459-004		NX	1		
5120 <b>-</b> 763-1 <b>26</b> 2					EXTRACTOR, ELECTRON TUBE: tong type; Eitel-McCullough p/n SK604A			2		
					FRAME, ACTUATOR: al; 5.063 in x 4.000 in x 2.016 in o/a; Collins Radio p/n 548-8014-003 (L4AA54-14)			1		
5120-293-0195					KEY: Bristol Co. p/n S060-4-6CDPL			1		
5120-223-6995					KEY: Bristol Co. p/n S096-8-6CDPL			1		
5120-995-7192					KEY, SOCKET HEAD SCREW: splined type, 6 flutes; 0.940 in dia Bristol Co. Read Ind Instr Div p.n ASO96			1		
6625-019-6318					MAINTENANCE FIXTURE, RADIO SET MT-3039/URC: provides facilities for elevating RT-698/ARC-102 during test to allow air to be exhausted from bottom; Collins Radio p/n 549-0990-004		NX	1		
5355-062-0949		į			POINTER, DIAL: al; 0.687 in lg x 0.250 in wd x 0.485 in h; Collins Radio p/n 549-0974-002			1		
6625-061-3649					PROD, TEST: black plastic handle 3 in lg; 5.300 lg x 0.500 in wd x 0.906 in h o/a Collins Radio p/n 548-3484-002			1		
6625-019 <b>-</b> 6312					PROD, TEST red plastic 3 in lg; incl capacitor; 6.096 in lg x 0.500 in wd x 0.968 in h o/a; Collins Radio p/n 548-3486-002			1		
6625 <b>-</b> 061-3648	/				PROD, TEST: red plastic handle, 3 in lg; cable attached w/jack tip; 4.437 in lg x 0.375 in dia o/a; Collins Radio p/n 548-3499-002			1		
5821-084-0136					PRINTED CIRCUIT KIT: Collins Radio p/n 549-0637-002			1		
5120-975-8165					SCREWDRIVER: American Steel Works of Kansas p/n 1202 with 9 in proj			1	-	

			UNIT		QTY	ILLUSTRATION		
FEDERAL DESIGN STOCK NUMBER BY M	ODEL	DESCRIPTION	OF ISSUE	"   EAP   AUTH		FIGURE NO.	ITEM NO.	
		MK-722/URC (continued)						
6625-893-6606		TEST SET TS-1956/URC: 9.125 in lg x 5.5 in wd x 8.812 in h; Collins Radio p/n 761-4984-001		NX	1			
		LEAD, TEST CX-9010/URC: Provides grounding facilities for the Test Set, Radio TS-1956/URC; Collins Radio Company part No. 549-1005-002 (M5AD2-A332)			1			
		LEAD, TEST CX-9011/URC: provides interconnecting facilities between the Receiver-Transmitter, Radio RT-698/ARC-102 and Test Set, Radio TS-1956/URC; Collins Radio Co. part No. 549-1006-003 (M5AD2-A335)			1			
		LEAD, TEST CX-9012/URC: provides interconnecting facilities between the Receiver-Transmitter, Radio RT-698/ARC-102 and Test Set, Radio TS-1956/URC; Collins Radio Co. part No. 549-1007-003 (M5AD2-A337)			1			
		LEAD, TEST CX-9013/URC: provides interconnecting facilities between Receiver-Transmitter, Radio RT-698/ARC-102 and Test Set, Radio TS-1956/URC; Collins Co. part No. 423-0241-00 (M5AD-A339)			1			
		LEAD, TEST CX-9014/URC: provides interconnecting facilities between the Receiver-Transmitter, Radio RT-698/ARC-102 and Test Set, Radio TS-1956/URC Collins Radio Co. part No. 1009-003 (M5AD2-A341)			1			
		LEAD, TEST CX-9015/URC: provides interconnecting facilities between the Receiver-Transmitter, Radio RT-698/ARC-102 and the Test Set, Radio TS-1956/URC Collins Radio Co. part No. 549-1010-003 (M5AD2-A343)			1			
5120-060-6423		TOOL, TUNING: Collins Radio p/n 547-2796-002			1			
6625-019-6314		VOLTAGE DIVIDER TS-1954/URC: reduces the RF output voltage of the RT-698/ARC-102 from approx 80v to approx 2.5v; Collins Radio p/n 548-3525-002		NX	1			
6625-019-6313		VOLTAGE DIVIDER TS-1955/URC: reduces RF output voltage of RT-698/ARC-102 from approx 80v to approx 2.5v; Collins Radio p/n 548-3528-002		NX	1			

	FEDERAL	DESIGNATION		7		UNIT		QTY	ILLUSTRATION			
	STOCK NUMBER				DEL 		DESCRIPTION		EXP	AUTH	FIGURE NO.	ITEM NO.
t		H	+	†	$\dagger$	Н	MK-722/URC (continued)	1	-			
١							RUNNING SPARE ITEMS					
1							NO PARTS AUTHORIZED FOR STOCKAGE AT OPERATIO'S LEVEL					
-												
١										1		
1										ļ		
									ļ			
										<u> </u>		
	,											
1												
l			ŀ									
١			l									
١			ı									
-												
1												
			1									
l					:	1		1	l	<u> </u>	İ	

MK-722/URC

# By Order of the Secretary of the Army:

HAROLD K. JOHNSON, General, United States Army, Chief of Staff.

## Official:

## J. C. LAMBERT,

Major General, United States Army, The Adjutant General.

#### Distribution:

To be distributed in accordance with DA Form 12-36 requirements for Field Maintenance Instructions for CH-47A, CV-2B, CV-7A, UH-1B, UH-1D, U-8F, OV-1A, OV-1B, OV-1C and U-10A Aircraft.

# RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

SOMETHING WRONG WITH PUBLICATION  FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)  THENJOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.  DATE SENT									
PUB	LICATION	NUMBEI	R 			PUBLICATION D	ATE	PUBLICATION TITLE	
PAGE PAGE PAGE PAGE PAGE PAGE PAGE PAGE	SE PA	PIN-POI	FIGURE NO.	TABLE NO.				AT IS WRONG DONE ABOUT IT.	
PRIN	PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER SIGN HERE								

DA 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE. P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

PIN : 020944-000