TM 11-5820-807-14&P

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND

GENERAL SUPPORT MAINTENANCE MANUAL

INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS

ACCESSORIES KIT MK-1517/UR

(NSN 5820-00-001-93281)

HEADQUARTERS, DEPARTMENT OF THE ARMY

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OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS ACCESSORIES KIT MK-1517/UR (NSN 5820-00-001-9328)

TM 11-5820-807-14&P, 2 September 1976 is changed as follows:

1. New or added material is indicated by a vertical bar in the margin of the page.
2. Added or revised illustrations are indicated by a vertical bar adjacent to the illustration identification number.
3. Remove old pages and insert new pages as indicated below.

Remove Pages	Insert Pages
i and ii	i and ii
1-1	1-1 and 1-2
2-1 through 2-4	2-1 through 2-5/(2-6 blank)
A-1	A-1/(A-2 blank)

4. File this change sheet in the front of the publication for references purposes.

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HEADQUARTERS
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WASHINGTON, DC, 2 *September* 1976

Operator's, Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools Lists

ACCESSORIES KIT MK-1517/UR

(NSN 5820-00-001-9328)

Current as of 13 July 1976

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth, New Jersey 07703.

In either case, a reply will be furnished direct to you.

CHAPTER 1
INTRODUCTION

Section 1. GENERAL

1-1. Scope

This manual describes Accessory Kit MK-1517/UR. Topics covered include installation and instruction for operator, organizational, and direct support maintenance. Included also are Repair Parts and Special Tools List (app B) and Maintenance Allocation (app C).

1-2. Consolidated Index of Army Publications and Blank Forms

Refer to the latest issue of DA Pam 310-1 to determine whether there are new editions, changes or additional publications pertaining to the equipment.

1-3. Maintenance Forms, Records and Reports

a. Reports of Maintenance and Unsatisfactory Equipment. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System (Army).

b. Report of Packaging and Handling Deficiencies. Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73A/AFR 400-54/MCO 4430.3F.

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 4610.33C/AFR 75-18/MCO P4610.19D/DLAR 4500.15.

1-4. Administrative Storage

Administrative Storage of equipment issued to and used by Army activities will have preventive maintenance performed in accordance with the PMCS charts before storing. When removing the equipment from administrative storage the PMCS should be performed to assure operational readiness. Disassembly and repacking of equipment for shipment or limited storage are covered in TM 740-90-1.

1-4.1. Destruction of Army Electronics Materiel

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

Section II. DESCRIPTION AND DATA

1-5. Purpose and Use

The accessory kit contains power cables, an extension cable for maintenance, a shock mount for vehicular installation, and a canvas bag in which the items are stored. It is intended for use with Receiving Set, Radio AN/URR-70 and Receiving Set, Radio AN/URR-71.

1-6. Description

(fig. B-1)

The accessory kit consists of Field Pack CW-1005/UR, Cable Assembly CX-10956/U, Cable Assembly CX-10957/U, Cable Assembly CX-10958/U, Cable Assembly CX-12953/U, and Base, Shock Mount MT-4034/U. The uses of the items are described as follows:

a. Field Pack CW-1005/UR. The field pack (1, fig. B-1) is a canvas container used to store all items of the accessory kit.

b. Cable Assembly CX-10956/U. This cable (2, fig. B-1) is used to supply power to the AN/URR-70 or AN/URR-71 when operated from a nominal 110 vac source.

c. *Cable Assembly CX-10957/U.* This cable (3, fig. B-1) is used to supply power to the AN/URR-70 or AN/URR-71 when operated from a nominal 220 vac source.

d. Cable Assembly CX-10958/U. This cable (4, fig. B-1) is used to supply power to the AN/URR-70 or AN/URR-71 when operated from a nominal 24 vdc vehicular source.

e. Cable Assembly CX-12953/U. This cable (5, fig. B-1) is used during maintenance as an extension cable between the dust cover and the radio assembly of Receiver, Radio R-1218/UR or Receiver, Radio R-1518/UR.

f. Base, Shock Mount MT-4034/U. The shock mount (6, fig. B-1) is used to hold Receiver, Radio R-1218/UR (p/o AN/URR-70) or Receiver, Radio R-1518/UR (p/o AN/URR-71) when installed in a vehicle.

1-7. Items Comprising an Operable Equipment

Table 1-1 lists the items comprising the accessory kit. The National stock number, physical characteristics, and the common name are listed for each item. These common names will be used throughout this manual.

NSN	ITEM	COMMON NAME	QTY	DIMENSIONS (IN.) HEIGHT	WIDTH	LENGTH	WEIGHT (LB)
5820-00-763-3101	FIELD PACK CW-1005/UR	FIELD PACK	1				2 3/4
5995-00-029-4158	CABLE ASSEMBLY XC-10956/U	110-VAC POWER CABLE (W1)	1			120	1
5995-00-029-3734	CABLE ASSEMBLY CX-10957/U	220-VAC POWER CABLE (W2)	1			120	1
5995-00-177-3552	CABLE ASSEMBLY CX-10958/U	24-VDC POWER CABLE (W3)	1			120	1
5995-00-177-3551	CABLE ASSEMBLY CX-12953/U	EXTENSION CABLE (W4)	1		24	1/4	
5820-00-001-9329	BASE,SHOCK MOUNT MT-4034/U	SHOCK MOUNT	1	2 3/8	7 3/8	10 1/8	1 3/4

CHAPTER 2
OPERATOR AND ORGANIZATIONAL MAINTENANCE

2-1. General

NOTE

Refer to TM 750-244-2 for proper procedures for destruction of this equipment to prevent enemy use.

a. Operator/crew preventive maintenance is limited to the inspection of equipment to prevent the occurrence of trouble, to reduce downtime, and to maintain equipment in serviceable condition. To be sure that your accessories kit is always ready for your mission, you must do scheduled preventive maintenance checks and services (PMCS).

(1) BEFORE OPERATION, perform your B PMCS to be sure that your equipment is ready to go.

(2) DURING OPERATION, perform your D PMCS. This should help you to spot small troubles before they become big problems.

(3) When an item of equipment is reinstalled after removal, for any reason, perform the necessary B PMCS to be sure the item meets the readiness reporting criteria.

(4) Use the ITEM NO. column in the PMCS table to get the number to be used in the TM ITEM NO. column on DA Form 2404 (Equipment Inspection and Maintenance Worksheet) when you fill out the form.

b. Organizational preventive maintenance procedures are designed to help maintain equipment in serviceable condition. They include items to be checked and how to check them. These checks and services, described in paragraph 2-4 outline inspections that are to be made prior to deployment.

c. Routine checks like CLEANING, PRESERVATION, DUSTING, WASHING, CHECKING FOR FRAYED CABLES. STOWING ITEMS NOT IN USE, COVERING UNUSED RECEPTACLES, CHECKING FOR LOOSE NUTS AND BOLTS AND COMPLETENESS are not listed as PMCS checks. They are things that you should do any time you see the must be done. If you find a routine check like one of those listed in your PMCS, it is because other operators reported problems with this item.

NOTE

When you are doing any PMCS or routine checks, keep in mind the warnings and cautions.

WARNINGS

- Adequate ventilation should be provided while using TRICHLOROTRIFLUOROETHANE. Prolonged breathing of vapor should be avoided. The solvent should not be used near heat or open flame; the products of decomposition are toxic and irritating. Since TRICHLOROTRIFLUOROETHANE dissolves natural oils, prolonged contact with skin should be avoided. When necessary, use gloves which the solvent cannot penetrate. If the solvent is taken internally, consult a physician immediately.

NOTE

If your equipment must be in operation all the time, check those items that can be checked and serviced without disturbing operation. Make the complete checks and services when the equipment can be shut down.

d. Deficiencies that cannot be corrected must be reported to a higher category maintenance personnel. Records and reports of preventive maintenance must be made in accordance with procedures given in TM 38-750.

2-2. Tools and Test Equipment

All tools and test equipment required for operator and organizational maintenance are listed in the Maintenance Allocation Chart (app C).

2-3. Operator/Crew Preventive Maintenance Checks and Services

B — Before

Item No.	Interval B	Item to be Inspected	Procedures - Check for and have repaired or adjusted as necessary	Equipment is not Ready/Available If:
1	*	Accessory kit	Inspect the accessory kit for general condition and security. Notify organizational maintenance if repairs are required.	

*Do this check before each deployment to a mission location. This will permit any existing problems to be corrected before the mission starts. The check does not need to be done again until redeployment.

2-4. Organizational Preventive Maintenance Check and Services

B - Before

Item No.	Interval B	Item to be Inspected	Procedure
1	*	Continuity and resistance check	Perform a continuity and resistance check on all cables, as listed in table 2-1. See paragraph 2-5. Replace defective cables. Refer defective cables to a higher maintenance category for repairs.
2	*	Shock mount	Inspect the shock mount for general condition and security. Repair as required before deployment.
3	*	Field Pack	Inspect the field pack for rips, broken or missing rivets, broken zipper, or other damage. Replace defective field pack.

*Do this check before each deployment to a mission location. This will permit any existing problems to be corrected before the mission starts. The check does not need to be done again until redeployment.

2-5. Organizational Maintenance

a. *Cables.* Inspect the 110 vac, 220 vac, and 24 vdc power cables and the extension cable for cuts, loose or broken connectors, or other damage. Adjust the multimeter (TS-352B/U) for resistance measurement on the RX1 range. Perform the resistance measurements for the cables as listed in table 2-1. If a defect is found, replace the cable and refer the defective cable to a higher category of maintenance for repair.

b. *Field Pack.* Inspect the field pack for rips, broken or missing rivets, broken zipper, or other damage. If a defect is found, replace the field pack.

c. *Vehicle Mount Disassembly and Reassembly* (fig. 2-1).

(1) *Disassembly of mount.*

(a) Remove the thumbscrew/retainer assembly from mounting base plate by removing the cotter pin and unscrewing the thumbscrew.

(b) Remove the grounding strap by removing the screw, nut, and lockwasher.

(2) *Inspection.*

(a) Inspect all parts of the thumbscrew-retainer assembly for darnage, signs of wear, or corrosion.

(b) Inspect the mounting base plate for dents, cracks, warping, or damage to finish.

WARNING

- Adequate ventilation should be provided while using TRICHLOROTRIFLUOROETHANE. Prolonged breathing of vapor should be avoided. The solvent should not be used near heat or open flame; the products of decomposition are toxic and irritating. Since TRICHLOROTRIFLUOROETHANE dissolves natural oils, prolonged contact with skin should be avoided. When necessary, use gloves which the solvent cannot penetrate. If the solvent is taken internally, consult a physician immediately.

(3) *Cleaning.* Clean dust and loose dirt from exterior surfaces with a damp cloth. Mild detergent may also be used, if desired. Remove grease, fungus, corrosion, and ground-in dirt from exterior surfaces, using a clean cloth dampened with trichlorotrifluoroethane. Use a shortbristled brush on connectors and hard to reach areas. Allow the surface to air dry.

(4) *Repainting and Refinishing.* Refer to SB 11-573 to determine the proper finish to use. Refer to TB 43-0118 for refinishing procedures.

NOTE

Do not paint connectors, screw threads, the vibration isolators on the shock mount, the ground strap on the shock mount, or the guide pin at the rear of the shock mount.

(5) *Reassembly.*

(a) Slide the flat washer and retainer on the thumbscrew.

(b) Pass the thumbscrew through the front-hole of the retainer and turn it clockwise to thread it into place on the base. Slide the back of the retainer into the slot in the base.

(c) Install the cotter pin in the thumbscrew.

Table 2-1. Cable Assemblies Continuity and Resistance Ckecks

Multimeter (+) Lead	Multimeter (-) Lead	Reading (ohms)
a. CX-10956/U Cable Assembly (fig. B-2)		
P2-White	P1-C	0
P2-Black	P1-L	0
P2-Green	P1-F	0
P1-C	P1-H	0
P1-A	P1-B	0
P1-A	P1-K	0
b. CX-10957/U Cable Assembly (fig. B-3)		
P2-White	P1-H	0
P2-Black	P1-L	0
P2-Green	P1-F	0
P1-B	P1-C	0
P1-A	P1-K	0
c. CX- 10958/U Cable Assembly (fig. B-4)		
P2-A	P1-L	0
P2-B	P1-F	0
P1-K	P1-E	0
d CX-12953/U Cable Assembly (fig. B-5)		
P1-1	P2-1	0
P1-2	P2-2	0
P1-3	P2-3	0
P1-4	P2-4	0
P1-5	P2-5	0
P1-6	P2-6	0
P1-7	P2-7	0
P1-8	P2-8	0
P1-9	P2-9	0
P1-10	P2-10	0
P1-11	P2-11	0
P1-12	P2-12	0

Table 2-1. Cable Assemblies Continuity and Resistance Checks-Continued

Multimeter (+)lead	Multimeter (-) Lead	Reading (ohms)
P1-13	P2-13	0
P1-14	P2-14	0
P1-15	P2-15	0
P1-2	P2-1	Infinite
P1-2	P2-8	Infinite
P1-2	P2-9	Infinite

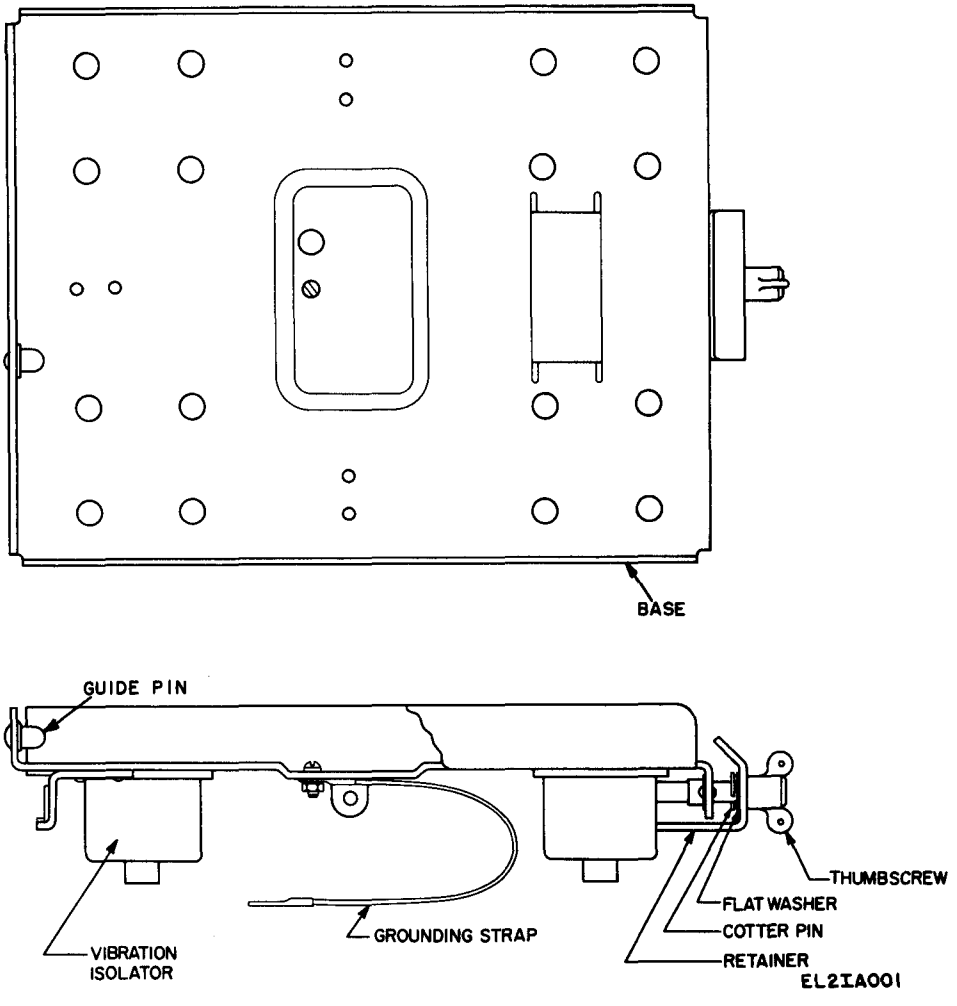

Figure 2-1. Shock mount parts location

2-6. Shock Mount Installation

(fig. 2-2)

a. Mounting Considerations The shock mount is intended for mounting inside a vehicle, The shock mount location must be chosen in accordance with the following requirements:

(1) The mounting surface should be flat.

(2) The mounting surface should be metal, preferably part of the body of the vehicle.

(3) There should be a minimum clearance of four inches at the rear of the shock mount.

(4) The underside of the mounting surface must be accessible.

(5) The ground strap must be securely attached to insure good electrical connection between the strap and the body and frame of the vehicle.

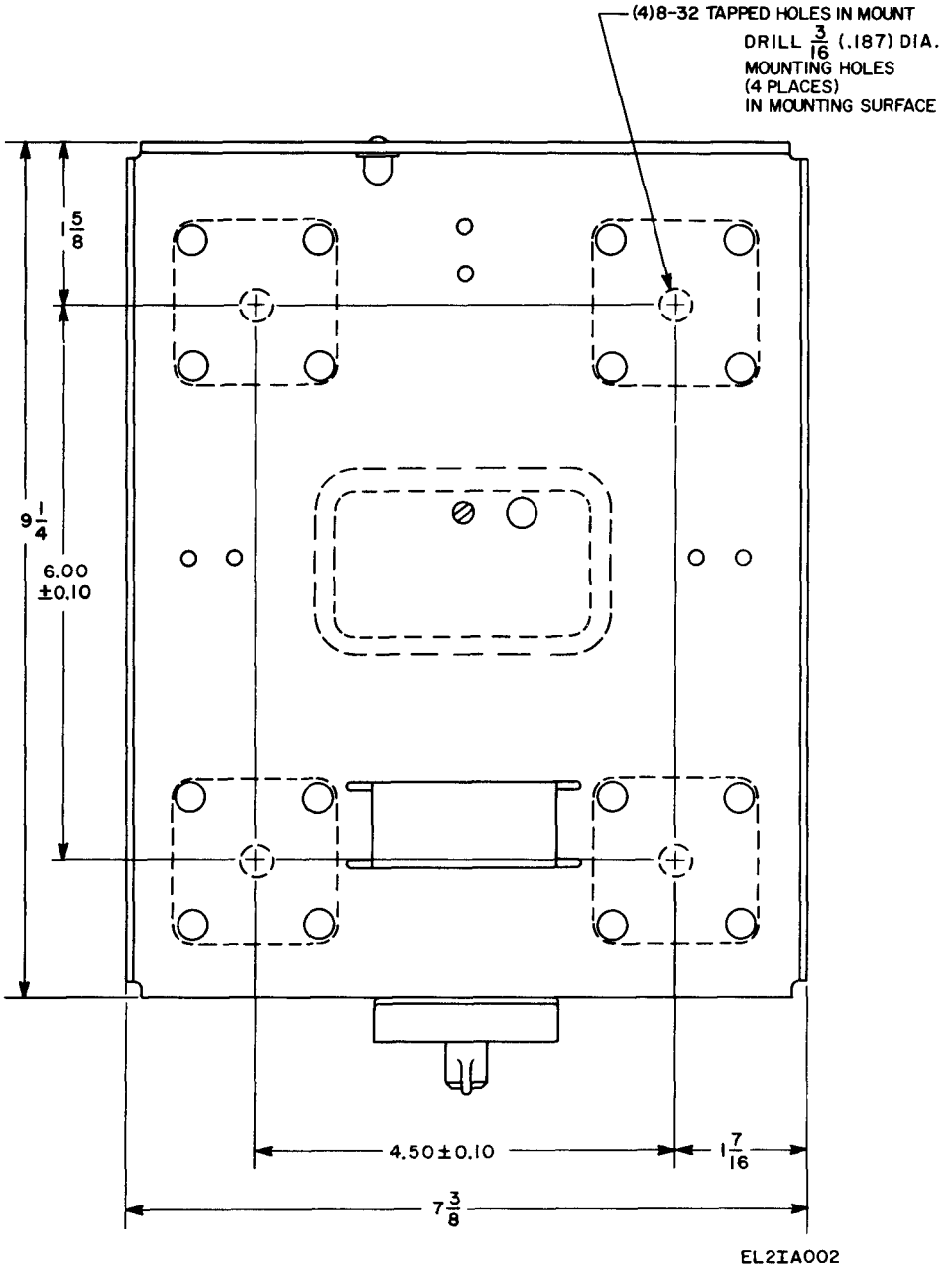

Figure 2-2. Shock mount installation dimensions.

b. *Mounting Procedure.*

(1) After the mounting location has been chosen, lay out the four mounting holes to the dimensions shown in figure 2-2.

(2) Drill the four 3/16-inch diameter mounting holes.

(3) Drill a 1/4-inch diameter hole for the ground strap at any convenient location within the rectangle formed by the four mounting holes.

(4) Remove all paint or other material that is within a 1/2 inch of the 1/4-inch diameter hole so that bare metal is exposed.

(5) Attach the ground strap to the mounting surface using a 1/4-inch diameter screw, lockwasher, and nut. The head of the screw should be on the same side of the mounting surface as the shock mount.

(6) Position the shock mount so that the holes in the vibration isolators are aligned with the four mounting holes.

(7) Secure the shock mount to the mounting surface using four 8-32 screws and lockwashers.

CHAPTER 3
DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

3-1. Scope of DS and GS Maintenance

This chapter describes the direct support maintenance requirements. Direct support maintenance is limited to testing and repair of the cable assemblies. No additional maintenance functions are allocated to general support.

3-2. DS and GS Tools and Test Equipment

All tools and test equipment required for direct support maintenance are listed in the Maintenance Allocation Chart (app C).

3-3. Cable Assembly Testing and Repair

a. Testing. Cable assemblies forwarded from organizational maintenance for repair should be checked for continuity as well as for cable and connector damage. To perform the continuity tests, adjust the multimeter (TS-352B/U) for resistance measurements on the RX1 range and check each cable wire run as listed in table 2-1.

b. Repair. Repair of the cable assemblies consists of replacing defective connectors and reconnection of broken wires at the connector ends if adequate wire remains to effect a good repair. To replace a connector, tag all wires as they are disconnected to aid in replacement. Refer to figures B-2, B-3, B-4, and B-5 for wiring details. Refer to the Repair Parts and Special Tools List (app B) to identify repair parts available.

APPENDIX A
REFERENCE

DA Pam 310-1	Consolidated Index of Army Publications and Blank Forms.
SB 11-573	Painting and Preservation of Supplies Available for Field Use for Electronics Command Equipment.
TB 43-0118	Field Instructions for Painting and Preserving Electronics Command Equipment Including Camouflage Pattern Painting of Electrical Equipment Shelters.
TM 11-5820-641-14	Operator's, Organizational, Direct Support, and General Support Manual: Receiving Set, Radio AN/URR-70 (NSN 5820-00-013-8911).
TM 11-5820-770-14	Operator's, Organizational, Direct Support, and General Support Maintenance Manual: Receiving Set, Radio AN/URR-71 (NSN 5820-00-013-8944).
TM 38-750	The Army Maintenance Management System (TAMMS).
TM 740-90-1	Administrative Storage of Equipment.
TM 750-244-2	Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command).

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APPENDIX B
OPERATOR'S, ORGANIZATIONAL, AND DIRECT SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

B-1. Scope
This appendix lists repair parts required for performance of organizational and direct support maintenance of the MK-1517/UR.

B-2. General
This Basic Issue Items, Items Troop Installed or Authorized, Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Basic Issue Items List Not applicable.

b. Section III. Items Troop Installed or Authorized List. Not applicable.

c. *Section IV. Repair Parts List.* A list of repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending numerical sequence, with the parts in each group listed in figure and item number sequence.

d. Section V. Special Tools List. Not applicable.

e. Section VI. National Stock Number and Part Number Index. A list, in ascending numerical sequence, of all National stock numbers appearing in the listings, followed by a list, in alphanumeric sequence, of all part numbers appearing in the listings. National stock number and part numbers are cross-referenced to each illustration figure and item number appearance.

B-3. Explanation of Columns
The following provides an explanation of columns found in the tabular listings:

a. Illustration. This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration in which the item is shown.

(2) *Item number.* The number used to identify each item called out in the illustration.

b. Source, Maintenance, and Recoverability Codes (SMR).

(1) *Source code.* Source codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code — *Definition*

PA-Item procured and stocked for anticipated or known usage.

NOTE

Cannibalization or salvage maybe used as a source of supply for any items source-coded above, except those coded XA, XD, and aircraft support items as restricted by AR 700-42.

(2) *Maintenance code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code — *Application/Explanation*

O-Support item is removed, replaced, used at the organizational level.

F-Support item is removed, replaced, used at the direct support level.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code — *Application/Explanation*

F-The lowest maintenance level capable of complete repair of the support item is the direct support level.

Z-Nonreparable. No repair is authorized.

(3) *Recoverability code.* Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability codes — *Definition*

F-Reparable item. When uneconomically reparable, condemn and dispose at the direct support level.

Z-Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.

c. National Stock Number. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

d. Part Number. Indicates the primary number 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.

NOTE

When a stock-numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identif y the item.

g. Unit of Measure (U/M). Indicates the standard of the 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.

h. Quantity Incorporated in Unit Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly.

B-4. Special Information

(Not applicable).

B-5. How to Locate Repair Parts

a. When National stock number or part number is unknown:

(1) *First.* Using the table of contents, determine the functional group within which the repair part belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same groups.

(2) *Second.* Find the illustration covering the functional group to which the repair part belongs.

(3) *Third.* Identify the repair part on the illustration and note the illustration figure and item number of the repair part.

(4) *Fourth.* Using the Repair Parts Listing, find the figure and item number noted on the illustration.

b. When National stock number or part number is known:

(1) *First.* Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in ascending NSN sequence, followed by a list of part numbers in ascending alphanumeric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* After finding the figure and item number, locate the figure and item number in the repair parts list.

B-6. Abbreviations

(Not applicable).

(Next printed page is B-5)

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION	USABLE ON CODE	(7) UNIT OF MEAS	(8) QTY INC IN UNIT
						GROUP; OO ACCESSORY KIT MK-1517/UR			
B-1	1	PAOZZ	5820-00-763-3101	CW1005UR	80058	FIELD PACK, CW-1005/UR		EA	1
B-1	2	PAOFF	5995-00-029-4158	CX10956U	80058	CABLE ASSEMBLY CX-10956/U		EA	1
B-1	3	PAOZZ	5995-00-029-3734	CX10957U	80058	CABLE ASSEMBLY CX-10957/U		EA	1
B-1	4	PAOZZ	5995-00-177-3552	CX10958U	80058	CABLE ASSEMBLY CX-10958/U		EA	1
B-1	5	PAOZZ	5995-00-177-3551	CX12953U	80058	CABLE ASSEMBLY CX-12953/U		EA	1
B-1	6	PAOZZ	5820-00-001-9329	MT4034U	80058	BASE, SHOCK MOUNT MT-4034/U		EA	1
						GROUP: 02 CABLY ASSEMBLY CX-10956/U			
B-2	1	PAOZZ	5935-00-786-9208	5264	74545	CONNECTOR, PLUG, ELEC		EA	1
B-2	2	PAOZZ	5935-00-815-3219	SCDL349379	80063	CONNECTOR, PLUG, ELEC		EA	1
B-2	3	PAOZZ	5999-00-050-2606	YE1620G5	09922	REDUCER, WIRE		EA	1
						GROUP: O3 CABLE ASSEMBLY CX-10957/U			
B-3	1	PAOZZ	5935-00-643-6252	7055	74545	CONNECTOR, PLUG, ELEC		EA	1
B-3	2	PAOZZ	5935-00-815-3219	SCDL349379	80063	CONNECTOR, PLUG, ELEC		EA	1
B-3	3	PAOZZ	5999-00-050-2606	YE1620G5	09922	REDUCER, WIRE		EA	1
						GROUP: 04 CABLE ASSEMBLY CX-10958/U			
B-4	1	PAOZZ	5935-00-259-2543	MS3106A22-2P	96906	CONNECTOR		EA	1
B-4	2	PAOZZ	5935-00-283-3394	MS3057-12B	96906	CLAMP, CABLE		EA	1
B-4	3	PAOZZ	5365-00-598-5287	MS3420-12A	96906	BUSHING		EA	1
B-4	4	PAOZZ	5365-00-598-5394	MS3420-8A	96906	BUSHING		EA	1
B-4	5	PAOZZ	5935-00-815-3219	SCDL349379	80063	CONNECTOR, PLUG, ELEC		EA	1
B-4	6	PAOZZ	5999-00-050-2606	YE1620G5	09922	REDUCER, WIRE		EA	2
						GROUP: 05 CABLE ASSEMBLY CX-12953/U			
B-5	1	PAFZZ	5935-00-975-6265	M24308-3-2	81349	CONNECTOR		EA	1
B-5	2	PAFZZ	5935-00-783-9133	DA24658	71468	SHIELD, CONNECTOR		EA	2
B-5	3	PAFZZ	5305-00-054-5647	MS51957-13	96906	SCREW		EA	4
B-5	4	PAFZZ	5935-00-498-5785	M24308-1-2	81349	CONNECTOR		EA	1
B-5	5	PAFZZ	5310-00-982-4999	MS21044C04	96906	NUT, SELF-LOCKING		EA	4

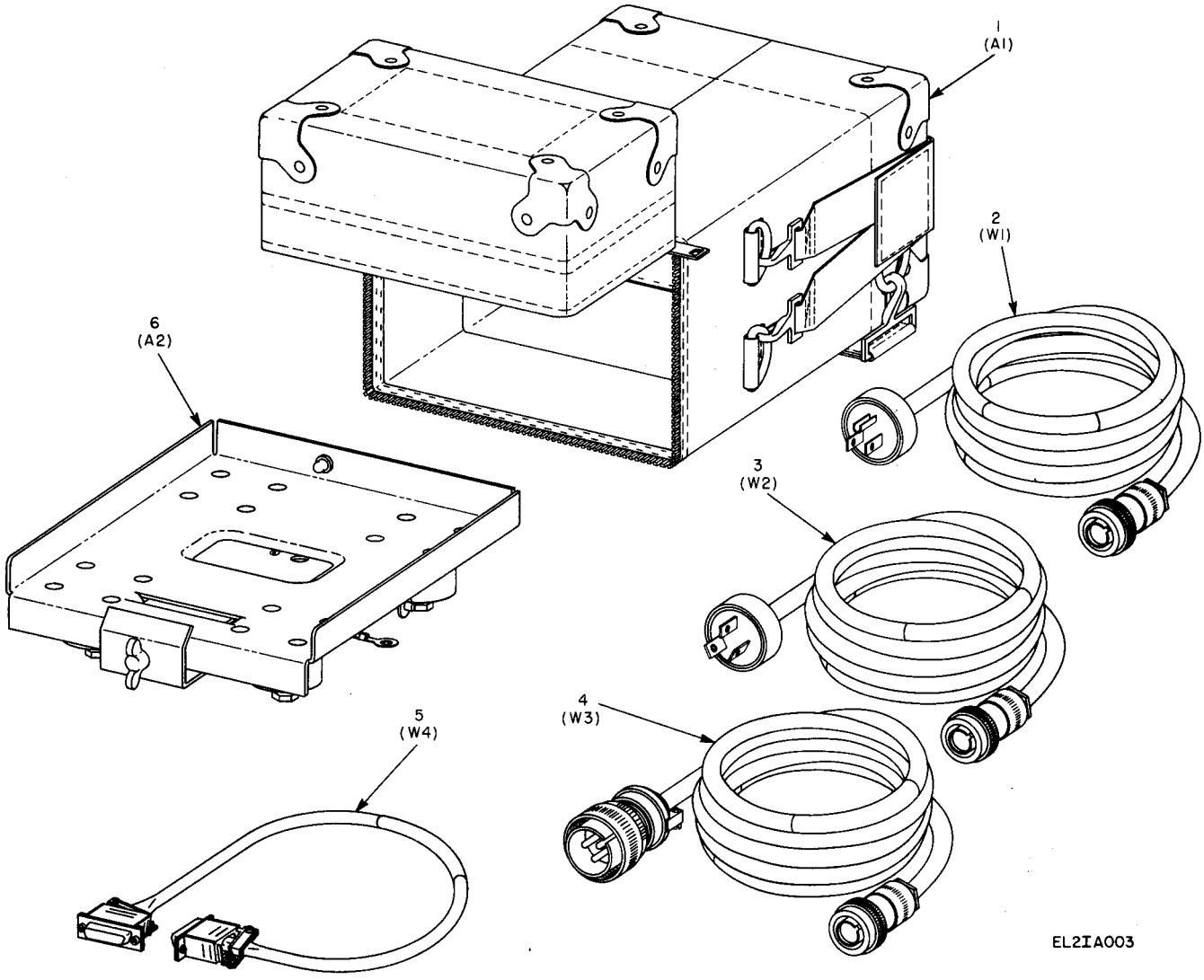

Figure B-1. Accessories Kit MK-1517/UR

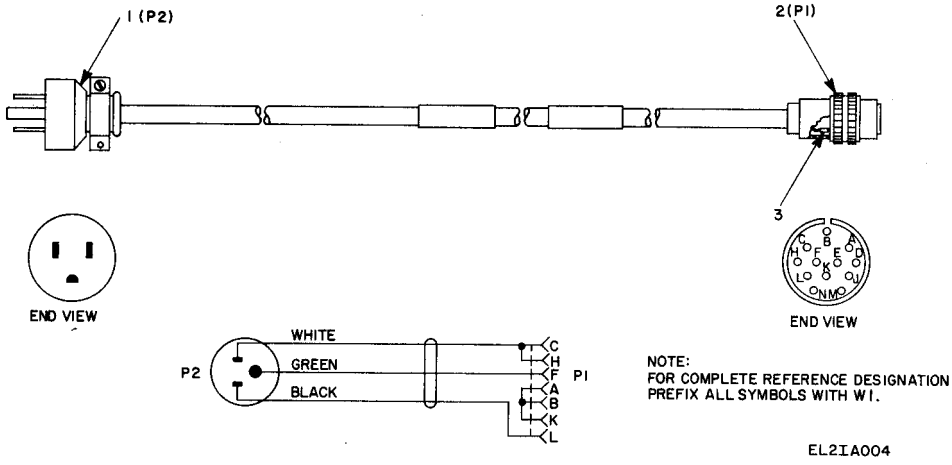

Figure B-2. Cable Assembly CX-10956/U.

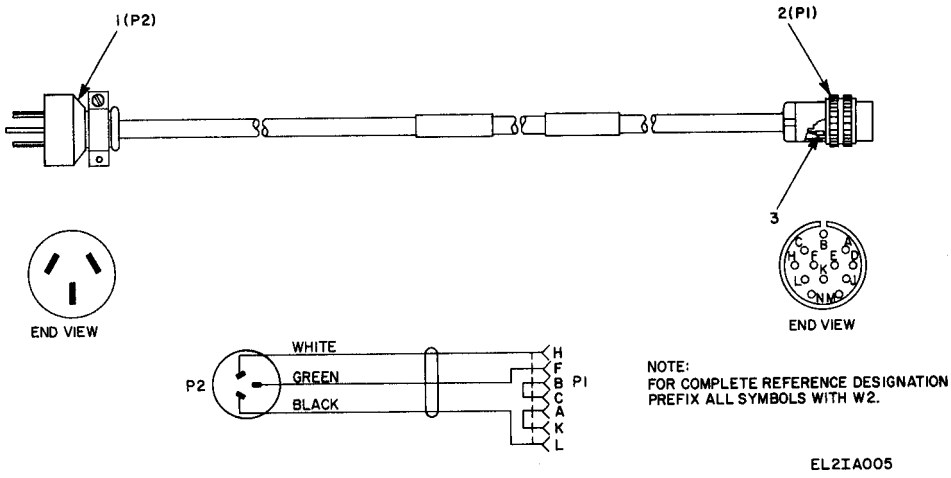

Figure B-3. Cable Assembly CX-10957/U

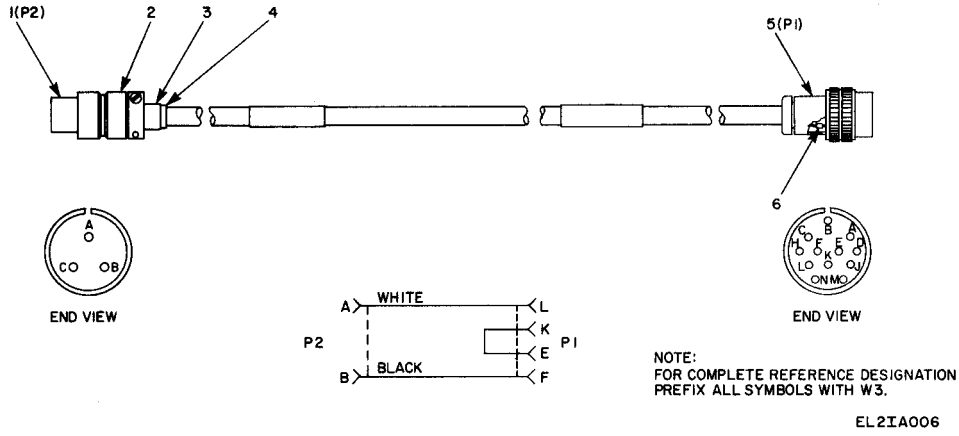

Figure B-4. Cable Assembly CX-10958/U.

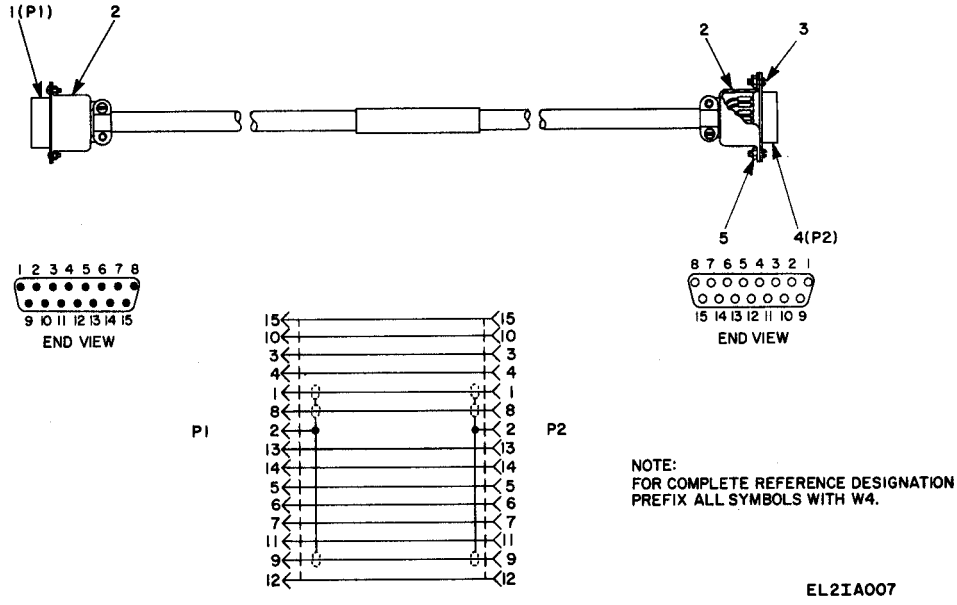

Figure B-5. Cable Assembly CX-12953/U.

SECTION IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIG. NO.	ITEM NO.	STOCK NUMBER	FIG. NO.	ITEM NO.
5305-00-054-5647	B-5	3			
5310-00-982-4999	B-5	5			
5365-00-598-5287	B-4	3			
5365-00-598-5394	B-4	4			
5820-00-001-9329	B-1	6			
5820-00-763-3101	B-1	1			
5935-00-259-2543	B-4	1			
5935-00-283-3394	B-4	2			
5935-00-498-5785	B-5	4			
5935-00-643-6252	B-3	1			
5935-00-783-9133	B-5	2			
5935-00-786-9208	B-2	1			
5935-00-815-3219	B-2	2			
	B-3	2			
	B-4	5			
5935-00-975-6265	B-5	1			
5995-00-029-3734	B-1	3			
5995-00-029-4158	B-1	2			
5995-00-177-3552	B-1	5			
5995-00-177-3552	B-1	4			
5999-00-050-2606	B-2	3			
	B-3	3			
	B-4	6			
5995-00-177-3551	B-1	5			

SECTION IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX (CONTINUED)

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
CW1005UR	80058	B-1	1				
CX10956U	80058	B-1	2				
CX10957U	80058	B-1	3				
CX10958U	80058	B-1	4				
CX12953U	80058	B-1	5				
DA24658	71468	B-5	2				
MS21044C04	96906	B-5	5				
MS3057-12B	96906	B-4	2				
MS3106A22-2P	96906	B-4	1				
MS3420-12A	96906	B-4	3				
MS3420-8A	96906	B-4	4				
MS51957-13	96906	B-5	3				
MT4034U	80058	B-1	6				
M24308-1-2	81349	B-5	4				
M24308-3-2	81349	B-5	1				
SCDL349379	80063	B-2	2				
		B-3	2				
		B-4	5				
YE1620G5	09922	B-2	3				
		B-3	3				
		B-4	6				
5264	74545	B-2	1				
7055	74545	B-3	1				

APPENDIX C
MAINTENANCE ALLOCATION

Section 1. INTRODUCTION

C-1. General

This appendix provides a summary of the maintenance operations for MK-1517/UR. It authorizes categories of maintenance for specific maintenance functions on repairable items and components and the tools and equipment required to perform each function. This appendix may be used as an aid in planning maintenance operations.

C-2. Maintenance Function

Maintenance functions will be limited to and defined as follows

a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.

b. Test. To verify serviceability and to detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. Service. Operations required periodically to keep an item in proper operating condition; i.e., to clean, preserve, drain, paint, or to replenish fuel/lubricants/hydraulic fluids or compressed air supplies.

d. Adjust. Maintain within prescribed limits by bringing into proper or exact position, or by setting the operating characteristics to the specified parameters.

e. Align. To adjust specified variable elements of an item to about optimum or desired performance.

f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipment used in precision measurement. Consists of the comparison of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. Install. The act of emplacing, seating, or fixing into position an item, part, module (component or assembly) in a manner to allow the proper functioning of the equipment/system.

h. Replace. The act of substituting a serviceable like-type part, subassembly, model (component or assembly) for an unserviceable counterpart.

i. Repair. The application of maintenance services (inspect, test, service, adjust, align, calibrate, replace) or other maintenance actions (welding, grinding, riveting, straightening, facing, remachining, or resurfacing) to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module/component/assembly, end item or system. This function does not include the trial and error replacement of running spare type items such as fuses, lamps, or electron tubes.

j. Ouerhual. That periodic maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (e.g., DMWR) in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like-new condition.

k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like-new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours, miles, etc.) considered in classifying Army equipment/components.

C-3. Column Entries

a. Column 1, Group Number. Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

b. Column 2, Component/Assembly. Column 2 contains the noun names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. *Column 3, Maintenance Functions.* Column 3 lists the functions to be performed on the item listed in column *2.* When items are listed without maintenance functions, it is solely for purpose of having the group numbers in the MAC and RPSTL coincide.

d. Column 4, Maintenance Category. Column 4 specifies, by the listing of a "worktime" figure in the appropriate subcolumn(s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate "worktime" figures will be shown for each category. The number of task-hours specified by the "worktime" figure represents the average time required to restore an item (assembly, subassembly, component, module, end item or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time and quality

assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. Subcolumns of column 4 are as follows:

C-Operator/crew
O-Organizational
F-Direct support
H-General support
D-Depot

e. Column 5, Tools and Equipment. Column 5 specifies by code, those common tool sets (not individual tools) and special tools, test, and support equipment required to perform the designated function.

C-4. Tool and Test Equipment Requirements (Table 1)

a. Tool or Test Equipment Reference Code. The numbers in this column coincide with the numbers used in the tools and equipment column of the MAC. The numbers indicate the applicable tool or test equipment for the maintenance functions.

b. Maintenance Category. The codes in this column indicate the maintenance category allocated the tool or test equipment.

c. Nomenclature. This column lists the noun name and nomenclature of the tools and test equipment required to perform the maintenance functions.

d. National/NATO Stock Number. This column lists the National/NATO stock number of the specific tool or test equipment.

e. Tool Number. This column lists the manufacturer's part number of the tool followed by the Federal Supply Code for Manufacturers (5-digit) in parentheses.

(Next printed page is C-3)

SECTION II MAINTENANCE ALLOCATION CHART
FOR

ACCESSORY KIT MK-1517/UR

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQUIPMENT
			C	O	F	H	D	
00	ACCESSORY KIT MK-1517/UR	Inspect	0.2					2
		Replace	0.5					
01	FIELD PACK, CANVAS CW-1005/UR	Inspect	0.2					
		Replace		0.5				
02	CABLE ASSEMBLY CX-10956/U	Inspect	0.2					
		Replace	0.5					
		Test		0.5				1,2
		Repair			1.0			1,3
03	CABLE ASSEMBLY CX-10957/U	Inspect	0.2					
		Replace		0.5				
		Test		0.5				1,2
		Repair			1.0			1,3
04	CABLE ASSEMBLY CX-10958/U	Inspect	0.2					
		Replace		0.5				
		Test		0.5				1,2
		Repair			1.0			1,3
05	CABLE ASSEMBLY CX-12953/U	Inspect	0.2					
		Replace		0.5				
		Test		0.5				1,2
		Repair			1.0			1,3
06	BASE, SHOCK MOUNT, ELEC EQPT MT-4034/UR	Inspect	0.2					
		Replace		0.5				2

TABLE 1. TOOL AND TEST EQUIPMENT REQUIREMENTS
FOR
ACCESSORY KIT MK-1517/UR

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
1	O,F,H,D	MULTIMETER TS-352B/U	6625-00-553-0142	
2	O	TOOL KIT, ELECTRONIC EQUIPMENT TK-101/G	5180-00-064-5178	
3	F,H,D	TOOK KIT, ELECTRONIC EQUIPMENT TK-105/G	5180-00-610-8177	

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Chief of Staff

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MICOM (1)
TECOM (2)
USACC (4)
MDW (1)
Armies (2)
Corps (2)
HISA (Ft Monmouth) (33)
Svc Colllleges (1)
USASESS (5)
USAADS (2)
USAFAS (2)
USAARMS (2)
USAIS (2)
USAE3 (2)
USAICS (3)
MAAG (1)
USARMIS (1)
Instl (2) except
Fort Gillem (10)
Fort Gordon (10)
Fort Huachuca (10)
Fort Carson (5)
Ft Richardson (ECOM) (2)
LBAD (14)
SAAD (30)
TOAD (14)
SHAD (3)
Sig FLDMS (1)
USAERDAA (1)
USAERDAW (1)
Units org under fol TOE
(1 cy each unit):
11-500 (AA-AC)
29-134
29-136

NG: None.
USAR: None.
For explanation of abbreviations used, see AR 310-50.

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PAGE NO.	PARAGRAPH	FIGURE NO.	TABLE NO.	IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
2-25	2-28			Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF antenna lag rather than 1°. REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of 25 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2° without degradation of operation.
3-10	3-3		3-1	Item 5, Function column. Change "2 db" to "3db." REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.
5-6	5-8			Add new step f.1 to read, "Replace cover plate removed in step e.1, above." REASON: To replace the cover plate.
		F03		Zone C 3. On J1-2, change "+24 VDC to "+5 VDC." REASON: This is the output line of the 5 VDC power supply. + 24 VDC is the input voltage.

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