

TECHNICAL LIBRARY

US ARMY MAINT BOARD

TM 11-6695-201-12P
C1

Operator and Organizational Maintenance Repair PARTS and Special Tools List and Maintenance Allocation Chart

LIGHT ASSEMBLY, ELECTRIC MX-1291/PAQ

TM 11-6695-201-IQP }
CHANGES No. 1 }

HEADQUARTERS,
DEPARTMENT OF THE ARMY
WASHINGTON 25, D.C., December 1960

TM 11-6695-201-12P,25 January 1960, is changed as follows:

Page 2, line 9. Change a to e.

Paragraph *1e(2)* superseded.

(2) (Superseded) *Federal stock* number. The stock number column lists the n-digit Federal stock number.

Pages 4 and 5. Delete †L9Wc33-1, column 4. Add FSN 6695-715-6120, column 2.

By Order of *Wilber M. Brucker*, Secretary of the Army:

G. H. DECKER,
General, United States Army,
Chief of Staff.

Official:

R. V. LEE,
Major General, United States Army,
The Adjutant General.

Distribution:

Active Army: To be distributed in accordance with DA Form 12-7 requirements for TM 11 Series (Unclas) Plus the following formula:

USASA (2)	Units organized under following	11-500 (AA-AE) (4)
CNGB (1)	TOES:	11-557
Tech Stf, DA (1) except	(2 copies each except as inde)	11-587
CSigO (36)	11-7	11-592
DASA (6)	11-16	11-597
US ARADCOM (2)	11-57	17
US ARADCOM Rgn (2)	11-97	17-17
MDW (1)	11-117	19-29
Seventh US Army (2)	11-155	19-500 (AA-AE)
EUSA (2)		

NG: None.

USAR: None.

For explanation of abbreviations used, see AR 320-50.

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST AND MAINTENANCE ALLOCATION CHART

LIGHT ASSEMBLY, ELECTRIC MX-1291/PAQ

Headquarters, Department of the Army, Washington 25, D. C.

25 January 1960

	Paragraph	Page
SECTION I. INTRODUCTION		
Scope.....	1	1
parts for maintenance	2	2
Requisitioning information.....	3	2
Critical items	4	3
Batteries.	5	3
Additional repair parts.....	6	3
Comments or suggestions.	7	3
II. FIRST ECHELON FUNCTIONAL PARTS LIST.....		4
III. SECOND ECHELON FUNCTIONAL PARTS LIST.....		5
IV. MAINTENANCE ALLOCATION.....		6
General	8	6
Maintenance by using organizations.	9	7
Mounting hardware	10	7
MAINTENANCE ALLOCATION CHART.....		8
ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS.....		9

SECTION I
INTRODUCTION

1. Scope

a. This manual includes operator's maintenance repair parts and special tools list, organizational maintenance repair parts and special tools list, and maintenance allocation chart.

b. The operator's maintenance repair parts and special tools list lists items supplied for initial operation and for running spares. The list includes accessories, parts, and material

issued as part of the major end item. All items authorized for basic operator maintenance of the equipment are also listed.

c. The organizational maintenance repair parts and special tools list lists the quantities of repair parts authorized for organizational maintenance and is a basis for requisitioning by organizations which are authorized the major item of equipment. End items of equip-

*This manual supersedes the first and second echelon portion of DA Supply Manual SIG 7 & 8 MX-1291/PAQ. 1 October 1956.

ments are issued on the basis of allowances prescribed in equipment authorization tables and other documents that are a basis for requisitioning.

d. The maintenance allocation chart assigns maintenance functions and repair operations to be performed by the lowest appropriate maintenance echelon.

a. Columns are as follows:

- (1) *Source, maintenance, and recoverability code.* Not used.
- (2) *Federal stock number.* The stock number column lists the n-digit Federal stock number. In the absence of a Federal Stock Number an interim i.e. ††L8Ra41c-12, appears in the description column. This indicates an applicable Federal stock number is in the process of assignment. The L number may be used in emergencies to identify items.
- (3) *Designation by model.* Not used.
- (4) *Description.* Nomenclature or the standard item name and brief identifying data for each item is listed in this column. When requisitioning, enter the nomenclature and description on the requisition.
- (5) *Unit of issue.* The unit of issue is the supply term applied to the smallest quantity by which the individual item is counted for procurement, storage, requisitioning, allowances, and issue purposes.
- (6) *Expenability.* Expendable items are indicated by the letter X; nonexpendable items are indicated by NX
- (7) *Quantity authorized.* Under "Items Comprising an Operable Equipment" the column lists the quantity of items supplied for the initial operation of the equipment. Under "Running Spares and Accessories" the quantities listed are those issued initially with the equipment as spare parts. The quantities are authorized to be kept on hand by the operator for maintenance of the equipment.
- (8) *Quantity incorporated in unit.* This column lists the quantity of each particular part found in a given assembly, component, or equipment.

(9) *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.

(10) *Illustration.* The item No. column lists the reference designations used for identification of the items in the illustration or text of the manual.

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 fourth echelon are authorized for stockage by the organization operating this equipment.

3. Requisitioning Information

a. The allowance factors are based on 100 equipments. In order to determine the number of parts authorized for initial stockage for the specific number of equipments supported, the following formula will be used and carried out to two decimal places:

$$\text{Specific number of equipments supported} \times \frac{\text{allowance factor} \quad _}{100}$$

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 orized 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, fractional 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 commanders will determine the number of prescribed loads second echelon units and organizations 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.

4. Critical Items

A zero slash (0) in the description column indicates items that are expected to fail during the first year; also items that will make the equipment inoperative if they fail.

5. Batteries

Dry batteries shown are used with the equipment but are not considered part of the equipment. They will not be preshipped automatically but are to be requisitioned in quantities

necessary for the particular organization, in accordance with SB 11-6.

6. Additional Repair Parts

Additional repair parts Which may be required for performing organizational maintenance, but are not authorized for stockage in the prescribed load are identified by an asterisk (*) and are to be requisitioned as required, for immediate use only. Refer to AR 700-18.

7. Comments or Suggestions

Any comments concerning omissions and discrepancies in this Manual will be prepared on DA Form 2028 and forwarded direct to Commanding Officer, U. S. Army Signal Equipment Support Agency, Fort Mommouth, N. J.
ATTN : SIGFM/ES-ML.

SECTION II FIRST ECHELON FUNCTIONAL PARTS LIST

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
SOURCE	FEDERAL	DESIGNATION	DESCRIPTION	UNIT OF	EXPENDABILITY	QUANTITY	FIGURE	ITEM
MAINTENANCE AND RECOVERABILITY CODE	STOCK NUMBER	BY MODEL		ISSUE		AUTHORIZED	NO	NO
			ITEMS COMPREHENSIVE AND OPERABLE EQUIPMENT					
			LIGHT ASSEMBLY, ELECTRIC MX-1291/PAQ					
6695-537-8948			LIGHT ASSEMBLY, ELECTRIC MX-1291/PAQ:	EA	NX			
ORD THRU AGC			TECHNICAL MANUAL TM 11-5542	EA	X	2		
ORD THRU AGC			TECHNICAL MANUAL: TM11-6695-201-12P	EA	X	2		
6135-125-5257			BATTERY BA-419/U: (REQUIRED FOR D-C OPERATION)	EA	X	1		
6150-392-6831			CABLE ASSEMBLY, POWER, ELECTRICAL: TWO NO. 18 AWG STRANDED COND; 6 FT LG; SIRCHIE	EA	X	1		
			FINGERPRINT LAB NO. 6681					
			RUNNING SPARES AND ACCESORY ITEMS					
			LIGHT ASSEMBLY, ELECTRIC MX-1291/PAQ					
			FILTER, LIGHT, ULTRAVIOLET: CRAIG INSTRUMENT PART/DWG NO. B-13-1 (USED ON ORDER 9144-PP-59) ^L9WC33-1	EA	X	1		01
6695-393-2155			FILTER, LIGHT, ULTRAVIOLET: SIRCHIE FINGERPRINT LAB PART NO. 6666 (USED ON ORDER 39192-P-52)	EA	X	1		01
6240-151-7641			\$ LAMP, FLUORESCENT: SYLVANIA PROD PART NO. F-6T5/BLB	EA	X	1		I1
6240-299-3404			\$ LAMP, MERCURY VAPOR: SYLVANIA PROD PART NO. G4T4/1	EA	X	1		I2
5120-277-9489			SCREWDRIVER TL-22	EA	X	1		H40

SECTION III SECOND ECHELON FUNCTIONAL PARTS LIST

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
SOURCE MAINTENANCE AND RECOVERABILITY CODE	FEDERAL STOCK NUMBER	DESIGNATION BY MODEL	DESCRIPTION	UNIT OF ISSUE	EXPENDABILITY	QUANTITY INCORPORATED IN UNIT	ORGANI- ZATIONAL 15 DAYS MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS 2ND	FIGURE NO	ITEM NO
			LIGHT ASSEMBLY, ELECTRIC MX-1291/PAQ						
	6695-537-8948		LIGHT ASSEMBLY, ELECTRIC MX-1291/PAQ	EA	NX				
	6250-377-0135		\$ BALLAST, LAMP: SIRCHIE FINGERPRINT LAB NO. 6621	EA	X	1	*		T1
	6250-283-9386		\$ BALLAST, LAMP: GE NO. 89G435	EA	X	1	*		T2
	6135-125-5257		BATTERY BA-419/U: (REQUIRED FOR D-C OPERATION)	EA	X	1			
	6145-112-8623		CABLE, POWER, ELECTRICAL: 2 STRANDED NO. 18 AWG COND: 300V; SPEC NO. 62, TYPE SJ MODIFIED (AUTHORIZED QUANTITY WILL BE MINIMUM OR A MULTIPLE OF FT IN USE)	FT	X	6	*		W201
	5935-149-4013		CONNECTOR, PLUG, ELECTRICAL: HUBBELL PART NO. 7057	EA	X	1	*		P2
	5935-149-3628		CONNECTOR, PLUG, ELECTRICAL: HUBBELL PART NO. 7464	EA	X	1	*		P1
	5935-237-6663		CONNECTOR, PLUG, ELECTRICAL: EBY PART NO. 9706-3	EA	X	1	*		P3
	5935-161-9653		CONNECTOR, RECEPTACLE, ELECTRICAL: HUBBELL PART NO. 7466	EA	X	1	*		J1
	6695-392-8512		DOOR, CABINET, ELETRICAL: SIRCHIE FINGERPRINT LAB PART NO. 6678	EA	X	1	*		A6
			FILTER, LIGHT, ULTRAVIOLET: CRAIG INSTRUMENT PART/DWG NO. B-13-1 (USED ON ORDER 9144-PP-59) ^^L9WC33-1	EA	X	1	*		O1
	6695-393-2155		FILTER, LIGHT, ULTRAVIOLET: SIRCHIE FINGERPRINT LAB PART NO. 6666 (USED ON ORDER 39192-P-52)	EA	X	1	*		O1
	6240-151-7641		\$ LAMP, FLUORESCENT: SYLVANIA PROD PART NO. F-6T5/BLB	EA	X	1	4		I1
	6240-299-3404		\$ LAMP, MERCURY VAPOR: SYLVANIA PROD PART NO. G4T4/1	EA	X	1	4		I2
	6250-299-4253		LAMPHOLDER: HOLDERS FOR LAMP I1 SYLVANIA PROD PART NO. S-100	EA	X	2	*		J2
	6695-377-0167		REFLECTOR, LIGHT: SIRCHIE FINGERPRINT LAB PART NO. 6680	EA	X	1	*		O2
	5120-277-9489		SCREWDRIVER TL-22	EA	X	1	*		H40
	5935-246-5280		SOCKET, ELECTRON TUBE: AMPHENOL PART NO. 78-S4	EA	X	1	*		J203
	5930-050-2708		SWITCH, TOGGLE: JAN TYPE NO. ST52P	EA	X	1	*		S1
	5930-666-0260		SWITCH, TOGGLE: JAN TYPE NO. ST42C	EA	X	2	*		S2,S3

SECTION IV

MAINTENANCE ALLOCATION

8. General

a. This section assigns maintenance functions and repair operations to be performed by the lowest appropriate maintenance echelon.

b. Columns in the maintenance allocation chart are as follows:

- (1) Part or component. Only the nomenclature or standard item name is shown in this column. Additional descriptive data is included only where clarification is necessary to identify the part. Components and parts comprising a major end item are listed alphabetically. Assemblies and subassemblies are in alphabetical sequence with their components listed alphabetically immediately below the assembly listing.
- (2) *Maintenance function.* This column indicates the various maintenance functions allocated to the echelon capable of performing the operation. These are defined as follows:
 - (a) *Service.* To clean, to preserve, and to replenish fuel and lubricants.
 - (b) *Inspect.* To verify serviceability and to detect incipient electrical or mechanical failure by scrutiny.
 - (c) *Test.* To verify serviceability and to detect incipient electrical or mechanical failure by use of special equipment such as gages, meters, etc.
 - (d) *Replace.* To substitute serviceable assemblies, subassemblies, and parts for unserviceable components.
 - (e) *Rebuild.* To restore to a condition comparable to new by disassembling the item to determine the condition of its component parts and reassembling it using serviceable,

rebuilt, or new assemblies, subassemblies, and parts.

- (3) *1st, 2d, 3d, 4th, and 5th echelon.* The symbol X indicates the echelon responsible for performing that particular maintenance operation, but does not necessarily indicate that repair parts will be stocked at that level. Echelons higher than the echelon 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 indicate the tools, test, and maintenance equipment required to perform the maintenance function.
- (5) *Remark.* Entries in this column will be utilized when necessary to clarify any of the data cited in the preceding columns.

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) *1st, 2d, 3d, 4th, 5th echelon.* A dagger (†) symbol indicates the echelons allocated the facility.
- (3) *Tool code.* This column lists the tool code assigned.
- (4) *Remarks.* Entries in this column are used to clarify data in the other columns.

9. Maintenance by Using Organizations

When this equipment signal service organizations organic to theater headquarter

ters or communication zones to provide theater communications, those maintenance functions allocated up to and including fourth echelon are authorized to the organization operating this equipment.

10. Mounting Hardware

The basic entries of this maintenance allocation chart do not include mounting hardware such as screws, nuts, bolts, washers, brackets, clamps, etc.

MAINTENANCE ALLOCATION CHART

(1) PART OR COMPONENT	(2) MAINTENANCE FUNCTION	(3) 1ST ECH	(4) 2ND ECH	(5) 3RD ECH	(6) 4TH ECH	(7) 5TH ECH	(8) TOOLS REQUIRED	(9) REMARKS
LIGHT ASSEMBLY, ELECTRIC MX-1291/PAQ	service inspect test rebuild	X	X X			X	1,2 2	Clean Visual, operational Circuits
BALLAST, LAMP	replace		X				2	
BATTERY BA-419/U	replace	X						
CABLE ASSEMBLY								
CABLE, POWER, ELECTRICAL	replace		X					
CONNECTOR, PLUG: P1, P2	replace		X					
CONNECTOR	replace		X				2	
DOOR, CABINET, ELECTRICAL	replace	X						
FILTER	replace		X					
LAMP, FLUORESCENT	replace	X						
LAMP, MERCURY VAPOR	replace		X					
LAMPHOLDER	replace		X				2	
REFLECTOR, LIGHT	replace		X					
SOCKET, ELECTRON TUBE	replace		X				2	
SWITCH	replace		X				2	

MX-1291/PAQ

ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS

(1) TOOLS REQUIRED FOR MAINTENANCE FUNCTIONS	(2)	(3)	(4)	(5)	(6)	(7)	(8) REMARKS
	1ST ECH	2ND ECH	3RD ECH	4TH ECH	5TH ECH	TOOL CODE	
MX-1291/PAQ (continued)							
MULTIMETER AN/URM-105		+	+	+	+	1	Will replace TS-297/U and TS-352/U when available
TOOL KIT TK-77/GF		+	+	+	+	2	

MX-1291/PAQ

By Order of *Wiber M. Brucker*, Secretary of the Army:

L. L. LEMNITZER,
General, United States Army,
Chief of Staff.

Official :

R. V. LEE,
Major General, United States Army,
The Adjutant General.

DISTRIBUTION:

Active Army:

USASA (2)	WRAMC (1)
CNGB (1)	AMS (1)
Tech Stf. DA (1) except	Engr Maint Cen (1)
CSigO (18)	USA Comm Agcy (3)
Tech Stf Bd (1)	USA Sig Engr Agcy (1)
USCONARC (5)	USA Sig Eqp Spt Agcy (7)
USA Arty Bd (1)	USA Sig Msl Spt Agcy (13)
USA Armor Bd (1)	Trans Terminal Comd (1)
USA Armor Bd Test Sec (1)	Army Terminals (1)
USA Inf Bd (1)	Pelt of Emb (OS) (2)
USA Air Def Bd (1)	OS Sup Agcy (1)
USA Air Def Bd Test Sec (1)	Sig Id Maint Shops (3)
USA Abn & Elet Bd (1)	Sig Lab (5)
USA Avn Bd (1)	USA Corps (Res) (1)
USATB (1)	USASSA (15)
USARADCOM (2)	Midwestern Rgn Ofc (USASSA) (1)
USARADCOM Rgn (2)	JBUSMC (2)
OS Maj Comd (5)	USA Sig Pubs Agcy (8)
OS Base Comd (5)	Army Pictorial Cen (2)
Log Comd (5)	USA Ord Msl Comd (3)
MDW (1)	Units org under fol TOE:
Armies (5) except First	11-7 (2)
US Army (7)	11-16 (2)
Corps (2)	11-57 (2)
Div (2)	11-97 (2)
USATC (2)	11-117 (2)
Ft Belvoir (5)	11-155 (2)
Def Atomic Spt Agcy (5)	11-500 AA-AE (2)
Yuma Tet Sta (2)	11-557 (2)
USA Elet PG (1)	11-587 (2)
Svc Colleges (5)	11-592 (2)
Br Svc Sch (5) except USASCS (25)	11-597 (2)
Gen Dep (2) except Atlanta Gen	17-17 (2)
Dep (None)	19-27 (2)
Sig Sec, Gen Dep (10)	19-29 (2)
Sig Depots (17)	19-500 AA-AE (2)
AFIP (1)	

NG: None.

USAR: None.

For explanation of abbreviations used, see AR 320-50.