

CHANGE }
No. 2 }

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C., 25 March 1968

Organizational Maintenance Manual

Including Repair Parts and Special Tool Lists

PROJECTION SET, MOTION PICTURE, SOUND AS-2(1);

INCLUDING PROJECTORS, MOTION PICTURE SOUND AQ-2A(1), AQ-29(2),

AQ-2A(3), AQ-2A(4)

TM 11-6730-201-20, 31 July 1961, is changed as follows:

The title of the manual is changed as shown above.

Page 2, paragraph 1, (as changed by C 1, 15 May, 63).

Subparagraph *b*(1). Change "(para 3)" to: (paras 3, 3.1, and 3.2).

Subparagraph *c*. Delete subparagraph *c* (as changed by C 1, 15 May 63) and substitute:

c. Report of errors, omissions, and recommendations for improving this manual by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to DA Publications) and forwarded direct to Commanding General, U. S. Army Electronics Command, ATTN. AMSEL-ME-NMP-AD, Fort Monmouth, N. J. 07703.

Note. For applicable forms and records, see paragraph 2, TM 11-6730-201-10.

Add subparagraph *d* after subparagraph *c*.

d. Appendix III is current as of 3 August 1967.

After paragraph 1 delete paragraph 1.1 added by C 1, 15 May 1963 and substitute:

1.1. 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.

Paragraph 3. (as changed by C 1, 15 May 63) Delete and substitute:

3. Preventive Maintenance

a. Organization preventive maintenance is the systematic care, inspection, and servicing of the projector set to maintain it in serviceable condition. prevent breakdowns, and assure maximum operational capability. Preventive maintenance is the responsibility of all categories concerned with the equipment and includes the inspection, testing, and repair or replacement of parts, subassemblies, or units that inspection and tests indicate would probably fail before the next scheduled periodic service. Preventive maintenance checks

*This change supersedes C 1, 15 May 1963, and TM 11-6730-201-20P, 21 December 1964.

and services of the projector set at the organizational category are made at monthly intervals, unless otherwise directed by the commanding officer.

b. Maintenance forms and records to be used and maintained on this equipment are specified in TM 38-750. Paragraph 2, TM 116730-201-10, contains additional information concerning submission of specific forms.

Paragraphs 3.1 and 3.2, (as added by C 1, 15 May 1963) Delete and substitute:

3.1. Monthly Maintenance

Perform the maintenance functions indicated in the monthly maintenance checks and services chart (para 3.2) once each month at the same time the daily and weekly procedures (TM 11-6730-201-10) are performed. A month is defined as approximately 30 calendar days of 8-hour-per-day operation. If the equipment is operated

16 hours a day, the monthly maintenance should be performed at 15-day intervals. Adjustment of the maintenance interval must be made to compensate for any unusual operating conditions. Equipment maintained in a standby (ready for immediate operation) condition must have monthly maintenance performed on it. Equipment in limited storage (requires service before operation) does not require monthly maintenance. All deficiencies or shortcomings will be recorded, and those not corrected during the inspection and service will be immediately reported to higher category, using forms and procedures specified by TM 38-750. Equipment that has a deficiency that cannot be corrected by organizational category should be deadlined in accordance with TM 38-750. Perform all the services listed in the monthly maintenance checks and services chart (para 3.2) in the sequence listed. Whenever a normal condition or result is not observed, take corrective action in accordance with the listed References.

3.2. Monthly Maintenance Checks and Services

Sequence No	Item	Procedure	References
1	Publications	a. Check to see that pertinent publications are completed and usable without missing pages. b. Changes pertinent to the equipment are on hand.	a. TM 11-6730-201-10. b. DA Pam 310-4.
2	MWO's	Check DA Pam 310-4 to see If new applicable MWO's have been published. If any new ones have been published, check to be sure that all URGENT MWO's have been applied and that all ROUTINE MWO's have been scheduled.	DA Pam 310-4.
3	Preservation	a. Check all painted surfaces to be sure that they are free of bare spots, rust, and corrosion. b. Remove rust and corrosion by lightly sanding them with fine sandpaper. Brush two thin coats of paint on bare metal to protect it from further corrosion.	a. Figs. 1, 3, 4, 6, 7, and 8; TM 11-6730-201-10. b. TM 9-213.
4	Covers and Latches.	Check all doors, case covers, and latches to be sure that they close securely.	Figs. 1 and 3; TM 11-6730-201-10.
5	Film patch	a. Remove dirt and dust from parts In path. b. Inspect sprockets for worn teeth; if sprocket teeth are worn, refer to higher category.	a. Fig 17; TM 11-6730-201-10. b. TM 38-750.

Sequence No	Item	Procedure	References
6	Scanner lens	Caution: Do not remove or shift position of scanner lens. A change in position will require sound focusing adjustment by higher category. Remove exciter lamp cover; carefully clean both ends of scanner lens with lens tissue wrapped around the end of a toothpick.	Fig. 5.
7	Lubrication	Lubricate equipment in accordance with Instructions (fig. 2). Note. The AQ-ZA(3) requires no lubrication at organizational category.	Para 4.
8	Pluckout Items	Check seating of electron tubes and fuses to be sure that they are secure.	Fig. 4 and 26; TM 11-6730-201-10
9	Mounting	Check to see that projector stand shows no sign or weakness or deformity and that project remains stable when placed in an operating position.	Para 9.
10	Connectors	Check all connectors to be sure that they are clean, have no bent pins, and mate securely.	Para 7.

Page 4, figure 1. Delete figure 1 as deleted by C1, 15 May 1963.

Page 11, appendix I. Delete appendix I (as changed by C1, 15 May 63) and substitute:

APPENDIX I

REFERENCES

Following is a list of references applicable and available to the organizational maintenance man of Projection Set, Motion Picture, Sound AS-2(1).

DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Manuals (Types 7, 8, and 9), Supply Bulletins, and Lubrication Orders.	TM 11-6625-203-12	LS-170/PFP-1, LS-170A/PFP-1, and LS-170B/PFP-1. Operator and Organizational Maintenance Manual: Multimeter AN/URM-105, Including Multimeter MS-77/U.
TB-11-6625-274-12/1	Test Data for Electron Tube Test Sets TV-7/U, TV-7A/U, TV-7B/U, and TV-7D/U.	TM 11-6730-201-10	Operator's Manual: Projection Set, Motion Picture, Sound AS-2(1); and Projection, Motion Picture Sound AQ-2A(1), AQ-2A(2), and AQ-2A(3).
TM 9-213	Painting Instructions for Field Use.		Army Equipment Record Procedures.
TM 11-5965-229-15P	Organizational, DS, GS, and Depot Maintenance Repair Parts: Loudspeakers, Permanent Magnet	TM 38-750	

APPENDIX III

ORGANIZATIONAL REPAIR PARTS

Section I. INTRODUCTION

1. Scope

This appendix contains a list of repair parts required for the performance of organizational maintenance for Projection Set, Motion Picture, Sound AS-2 (1). Each group is arranged in alphabetical sequence. Note No special tools, test, and support equipment are required.

2. General

The repair parts list is divided into the following sections:

a. Prescribed Load Allowance (PLA), Section II. The PLA is a consolidated listing of repair parts allocated for initial stockage at the organizational maintenance category. This is a mandatory minimum stockage allowance.

b. Repair Parts for Organizational Maintenance, Section III. Repair parts authorized for organizational maintenance are included in this section.

Note. All indexes noted below are cross referenced to index numbers. The index numbers appear in ascending sequence in column 1 of the repair parts list (para 3a). The index number for the particular item will be the same for the item in all sections of this appendix.

c. Federal Stock Number Cross Reference to Index Number, Section IV. This is a cross reference index of Federal stock numbers to index numbers.

d. Figure and Item Number Cross Reference to Index Number, Section V. This is a cross reference index of figure number and item number (or reference designation) to index number. The figure numbers are listed in numerical sequence; item numbers and/or reference designations are listed for each figure. Where applicable, when the same reference designation is used on different models, the usable on code (para 3c) is indicated after the reference designation (e.g., "E119-1,2; E119-3, 4").

e. Reference Designation Cross Reference to Index Number, Section VI. This is a cross reference index of reference and/or item numbers to index numbers. Where applicable, when the same reference designation is used on different models, the usable on code (para 3c) is indicated after the reference designation (e.g., "E119-1, 2; E119-3, 4").

3. Explanation of Columns

An explanation of the columns is given below.

a. Source, Maintenance, and Recoverability Codes (SMR) and Index Numbers Column. The first line in this column lists the applicable SMR codes for the part. Listed in ascending order directly below the SMR codes is the index number assigned to the repair part.

- (1) *Source code (S).* The selection status and source for the listed item is noted here. Source code and its explanation is as follows:

Code	Explanation
P ---	Applies to repair parts that are stocked in or supplied from the GSA/DSA, or Army supply system, and authorized for use at indicated maintenance categories.

- (2) *Maintenance code (M).* The lowest category of maintenance authorized to install the listed item is noted here.

Code	Explanation
O	Organizational Maintenance
(3)	<i>Recoverability code (R).</i> The information in this column indicates whether unserviceable items should be returned for recovery or salvage.

Recoverability code and its explanation is as follows:

Note. When no code is indicated in the recoverability column, the part will be considered expendable.

<i>Code</i>	<i>Explanation</i>
R ---	Applies parts and assemblies which are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis.

b. Federal Stock Number Column. The Federal stock number for the item is listed in this column.

c. Description Column. This column includes the Federal item name and any additional description of the item required, the manufacturer's part number (reference number), and the applicable five-digit Federal Supply Code for Manufacturers (para 5). Also included in this column are the designators 1, 2, 3, 4, etc. listed under the heading Usable on Code. The designators, which are explained at the beginning of the description column in the repair parts list, indicate that the part is used on the model or serially numbered groups so identified.

d. Unit of Issue Column: The unit used as a basis of issue (e.g., ea, pr, ft, yd, etc.) is indicated in this column.

e. Quantity Incorporated in Unit Pack Column. Not used.

f. Quantity Incorporated in Unit Column. The quantity of repair parts in an assembly is given in this column.

g. Maintenance Allowances Column.

- (1) The maintenance allowance columns are divided into subcolumns. Indicated in each subcolumn opposite each item is the total quantity of items authorized for the number of equipments supported. Items authorized for use as required, but not for initial stockage, are identified with and asterisk (*) in the allowance column.

- (2) The quantitative allowances for organizational category of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.

- (3) Subsequent changes to organizational allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be forwarded to Commanding General, U. S. Army Electronics Command, ATTN: AMSEL-ME-NMP-RS, Fort Monmouth, N. J. 07703, for exception or revision to the allowance list. Revisions to the range of items authorized will be made by the USA ECOM National Maintenance Point based upon engineering experience, demand data, or TAERS information.

h. Illustrations Column.

- (1) *Figure number (a).* The number of the illustration in which the item is shown is indicated in this column.

- (2) *Item No. or reference designation (b).* The callout number or reference designation used to reference the item in the illustration appears in this column.

4. Location of Repair Parts

a. This appendix contains three cross-reference indexes (sec IV, V, and VI), to be used to locate a repair part when either the Federal stock number, reference number (manufacturer's part number), figure number, or reference designation is known. The first column in each cross-reference index is prepared, as applicable, in numerical or alphanumeric sequence. The last column of each cross-reference index lists the index number assigned to the part.

b. Refer to the appropriate cross-reference index (paras 2c, d, e) and note the index number in the last column; then refer to the repair parts list to locate the index number which is listed in ascending order in column 1 of the repair parts list.

5. Federal Supply Codes

This paragraph lists the Federal supply code and the associated manufacturer's name.

<i>Code</i>	<i>Manufacturer</i>
71468	ITT Cannon Electric Inc
800W3	Army Electronics Command
81349	Military Specifications

SECTION II. PRESCRIBED LOAD ALLOWANCE

(1) FEDERAL STOCK NUMBER	(2) DESCRIPTION USABLE ON CODE	(3) QTY INC IN UM PK	(4) 15-DAY ORG MAINT. ALLOWANCE			
			(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100
<p>NOTE: Usable on Code 1 refers to Projector AQ-2A(1); 2 refers to AQ-2A(2); 3 refers to AQ-2A(3); 4 refers to AQ-2A(4).</p>						
<p>GROUP I AMPLIFIER GROUP</p>						
5355-284-5131	KNOB, CONTROL (VOLUME AND TONE): SM-B-338951; 80063	1,2,3,4	*	*	*	2
5920-284-6733	FUSE: 8/10 amp: SM-B-338972; 80-063	1,2,3,4	2	2	3	6
5960-262-9182	ELECTRON TUBE: MIL-E-IB TYPE No. 6x4WA; SM-D-338876-8; 80063	1,2,3,4	*	2	2	3
5960-669-6861	ELECTRON TUBE: JAN type 6AQSX; SM-D-338876-7; 80063	1,2,3,4	*	2	2	3
5960-827-8724	ELECTRON TUBE: JAN type 12AX7; SM-D-338876-6; 80063	1,2,3,4	*	2	2	3
6240-155-7857	LAMP, INCANDESCENT (AMP INDICATOR): AN340-328; 81349	1,2,3,4	*	2	2	3
<p>GROUP II PROJECTOR GROUP</p>						
3030-629-0969	BELT, FRONT, FEED: SM-B-339106; 80063	3,4	*	2	2	3
3030-629-0970	BELT, REAR, TAKE-UP: SM-B-339105; 80063	3,4	*	2	2	3
5305-341-7865	THUMBSCREW: Lens lock; SM-B-338374; 80063	1,2,3,4	*	*	*	2
5920-199-9502	FUSE, CARTRIDGE: 15 amp; SM-D-338340-13; 80063	1,2,3,4	*	2	2	3
6145-186-1493	CABLE., POWER, ELECTRICAL: SM-B-339151; 80063	1,2,3,4	*	*	*	2
6240-155-8018	LAMP, INCANDESCENT, PROJECTION: 1000 W; MS35404-5; 81349	1,2,3,4	2	2	3	6
6240-156-1568	LAMP, INCANDESCENT, PROJECTION: 750 W;	1,2,3,4	2	2	3	6
6240-186-6594	LAMP, INCANDESCENT, THREADING: 6 W; 120 V; SM-B-239009; 80063	1,2,3,4	*	2	2	3
6240-243-8336	LAMP, INCANDESCENT, EXCITER: SM-B-339110; 80063	1,2,3,4	2	2	3	6
6730-356-6913	FOOT ASSEMBLY, MOUNTING: SM-B-338865; 80063	1,2,3,4	*	*	*	2
6760-598-9267	BELT, SPRING, REAR, TAKE-UP: SC-B-77142; 80063	1,2	*	2	2	3
6720-598-9268	BELT, SPRING, FRONT, FEED: SC-B-77141; 80063	1,2	*	2	2	3

SECTION III. REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION <i>Reference Number & Mfr Code Usable on Code</i>	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(8) ILLUSTRATION		
						(a) 1-5	(b) 6-20	(c) 21-150	(d) 51-100	(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION	
----R A001	6730-663-9813	PROJECTION SET, MOTION PICTURE, SOUND AS-2(1); 16mm w/internal and external speaker (This item is nonexpendable) NOTE: Usable on Code 1 refers to Projector AQ-2A(1) 2 refers to AQ-2A(2); 3 refers to AQ-2A(3); 4 refers to AQ-2A(4) GROUP I AMPLIFIER GROUP										
P-O A032	5960-827-8724	ELECTRON TUBE: JAN type 12AX7; SM-D-338876-6; 1,2,3,4	ea		2	*	2	2	3			V201, V202
P-O A033	5960-669-6861	ELECTRON TUBE: JAN type 6AQSW; SM-D-338876-7; 80063 1,2,3,4	ea		3	*	2	2	3			V203, V204, V205
P-O A034	5960-262-9182	ELECTRON TUBE: MIL-E-1B type No. 6x4WA; SM-D-338876-8; 80063 1,2,3,4	ea		2	*	2	2	3			V206, V207
P-O- A035	5920-284-6733	FUSE: 8/10 amp; SM-B-338972; 80063 1,2,3,4	ea		1	2	2	3	6			F201
P-O A041	5355-284-5131	KNOB, CONTROL (VOLUME AND TONE): SM-B-33851; 80063 1,2,3,4	ea		2	*	*	*	2	4		E203
P-O A042	6240-155-7857	LAMP, INCANDESCENT (AMP INDICATOR): AN340-328; 81349 1,2,3,4	ea		1	*	2	2	3	4		E201
		GROUP II PROJECTOR GROUP										
P-O A103	6730-356-6867	APERTURE PLATE ASSEMBLY: SM-C 338527; 80063 1,2,3,4	ea		1	*	*	*	*			
P-O A108	6730-629-0971	ARM ASSEMBLY, FEED REEL: SM-D-339038; 80063 3,4	ea		1	*	*	*	*			
P-O A109	6730-567-3001	ARM ASSEMBLY, FEED REEL: SC-D-77684; 80063 1,2	ea		1	*	*	*	*			
P-O A110	6730-392-8970	ARM ASSEMBLY, TAKE-UP REEL: SC-D-77710; 80063 1,2	ea		1	*	*	*	*			
P-O A111	6730-629-0972	ARM ASSEMBLY, TAKE-UP: (Spindle assy, FSN 6760-392-8974 indicates additional carts for this assy); SM-D-339064; 80063 3,4,	ea		1	*	*	*	*			
P-O A147	3030-629-0969	BELT, FRONT, FEED: SM-B-339106; 80063 3,4	ea		1	*	2	2	3	5		0118
P-O A148	3030-629-0970	BELT, REAR, TAKE-UP: SM-B-339105; 80063 3,4	ea		1	*	2	2	3	5		0119
P-O A149	6760-598-9268	BELT, SPRING, FRONT, FEED: SC-B-77141; 80063 1,2	ea		1	*	2	2	3	5		0119
P-O A150	6760-598-9267	BELT, SPRING, REAR, TAKE-UP; SC-B-77142; 80063 1,2	ea		1	*	2	2	3	5		0118
P-O A160	7920-356-4694	BRUSH, CLEANING: SM-D-338340-A; 80063 1,2,3,4	ea		1	*	*	*	*			
P-O A165	5340-356-4695	BUMPER, TILT JACK LEG: SM-B-338830; 80063 1,2,3,4	ea		1	*	*	*	*			H167
P-O A175	6145-186-1493	CABLE, POWER, ELECTRICAL: SM-B-339151; 80063 1,2,3,4	ft		16	*	*	*	*	3		
P-O A179	5977-222-0092	CAP, ELECTRICAL: GE Part/Dwg K5863338AB1; SM-B-338698; 80063 1,2,3,4	ea		2	*	*	*	*			0122
P-O A200	5935-283-8303	CONNECTOR, PLUG, ELECTRICAL: 8 pin; SM-B-338699; 80063 1,2,3,4	ea		2	*	*	*	*			F101
P-O A201	5935-201-7902	CONNECTOR, PLUG, ELECTRICAL: P/O A.C. power cable; SM-B-339152; 80063 1,2,3,4	ea		1	*	*	*	*	3		F503
P-O A202	5935-808-5163	CONNECTOR, PLUG, ELECTRICAL: SM-B-339153; 80063 1,2,3,4	ea		1					3		F501
P-O A227	6730-356-6913	FOOT ASSEMBLY, MOUNTING: SM-B-338865; 80063 1,2,34,	ea		3	*	*	*	2			

SECTION III. REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE (CONTINUED)

(1) SMR CODE INDEX NO.	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION <i>Reference Number & Mfr Code Usable on Code</i>	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(8) ILLUSTRATION	
						(a) 1-5	(b) 6-20	(c) 21-150	(d) 51-100	(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
P-O A228	6730-356-6914	FOOT ASSEMBLY, MOUNTING (ADJUSTABLE): SM-B-338869 80063	1,2,3,4	ea	1	*	*	*	*	4	
P-O A229	5920-199-9502	FUSE, CARTRIDGE: 15 amp; SM-D-338340-13; 80063	1,2,3,4	ea	1	*	2	2	3		F101
P-O A271	5935-092-1032	INSERT, ELECTRICAL: (P/O Connector, Receptacle, Electrical FSN 5935-498-0781 (AC power)); 20493; 71468	1,2,3,4	ea	1	*	*	*	*		J103
P-O A272	5935-092-1033	INSERT, ELECTRICAL: (P/O Connector, Plug, Electrical FSN 5935-201-7902); 20494; 71468	1,2,3,4	ea	1	*	*	*	*		
P-O A280	5355-667-9399	KNOB, FOCUSING: SM-B-338504; 80063	1,2,3,4	ea	1	*	*	*	*	5	K122
P-O A284	5355-545-7572	KNOB, ROTARY SWITCH: SC-D-77231-14; 80063	1,2,	ea	1	*	*	*	*	4	K119
P-O A285	5355-667-5496	KNOB, ROTARY SWITCH: SM-B-339007; 80063	3,4	ea	1	*	*	*	*	4	K119
P-O A288	6240-186-6594	LAMP, INCANDESCENT, THREADING: 6 W; 120 V; SM-B-339009; 80063	1,2,3,4	ea	1	*	2	2	3	2	K104
P-O A289	6240-243-8336	LAMP, INCANDESCENT, EXCITER: SM-B-339110; 80063	1,2,3,4	ea	1	2	2	3	6	5	K106
P-O	6240-156-1568	LAMP, INCANDESCENT, PROJECTION: 750 W; MS35404-4; 81349 OR	1,2,3,4	ea	1	2	2	3	6		K105
P-O A291	6240-155-8018	LAMP, INCANDESCENT, PROJECTION: 1000 W; MS35404-5; 81349	1,2,3,4	ea	1	2	2	3	6		K105
P-O A302	6210-500-3980	LENS, INDICATOR LIGHT: SM-B-338788; 80063	1,2,3,4	ea	1	*	*	*	*	2	X101
P-O A303	6760-223-3441	LENS, PROJECTION, VIEWING: SM-B-339085; 80063	1,2,3,4	ea	1	*	*	*	*		I102
P-O A374	6730-763-2164	PRESSURE PLATE ASSEMBLY: SM-C-338518; 80063	1,2,3,4	ea	1	*	*	*	*		O177
P-O A392	6760-282-7988	REEL, PHOTOGRAPHIC FILM: Stored in Loudspeaker LS-170; MIL-R-214B; 81349	1,2,3,4	ea	1	*	*	*	*		
P-O A570	5305-341-7865	THUMBSCREW: lens lock; SM-B-338374; 80063	1,2,3,4	ea	1	*	*	*	2	5	H105

**SECTION IV. INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE
TO INDEX NUMBER**

FEDERAL STOCK NUMBER	INDEX NO.	FEDERAL STOCK NUMBER	INDEX NO.	FEDERAL STOCK NUMBER	INDEX NO.
3030-629-0969	A147	6760-223-3441	A303		
3030-629-0970	A148	6760-282-7988	A392		
5305-341-7865	A570	6760-598-9267	A150		
5340-356-4695	A165	6760-598-9268	A149		
5355-284-5131	A041	7920-356-4694	A160		
5355-545-7572	A284				
5355-667-5496	A285				
5355-667-9399	A280				
5920-199-9502	A229				
5920-284-6733	A035				
5935-092-1032	A271				
5935-092-1333	A272				
5935-201-7902	A201				
5935-283-8303	A200				
5935-806-5163	A202				
5960-262-9182	A034				
5960-669-6861	A033				
5960-827-8724	A032				
5977-222-0092	A179				
6145-186-1493	A175				
6210-500-3980	A302				
6240-155-7857	A042				
6240-155-8018	A291				
6240-156-1568	A290				
6240-186-6594	A288				
6240-243-8336	A289				
6730-356-6867	A103				
6730-356-6913	A227				
6730-356-6914	A228				
6730-392-8970	A110				
6730-567-3001	A109				
6730-629-0971	A108				
6730-629-0972	A111				
6730-663-9813	A001				
6730-763-2164	A374				

**SECTION V. INDEX-FIGURE AND ITEM NUMBER CROSS REFERENCE
TO INDEX NUMBER**

FIG. NO.	ITEM NO. OR REFERENCE DESIGNATION	INDEX NO.	FIG. NO.	ITEM NO. OR REFERENCE DESIGNATION	INDEX NO.
2	E104	A288			
	I101	A302			
3	P501	A202			
	P503	A201			
4	E119--1, 2	A284			
	E119--3, 4	A285			
	E201	A042			
	E203	A041			
5	E106	A289			
	E122	A280			
	H105	A570			
	I102	A303			
	0118--1, 2	A150			
	0118--3, 4	A147			
	0119--1, 2	A149			
	0119--3, 4	A148			

**SECTION VI. INDEX-REFERENCE DESIGNATION CROSS REFERENCE
TO INDEX NUMBER**

REFERENCE DESIGNATION	INDEX NO.	REFERENCE DESIGNATION	INDEX NO.	REFERENCE DESIGNATION	INDEX NO.
E104	A288				
E105	A290				
E106	A289				
E119--1, 2	A284				
D119--3, 4	A285				
E122	A280				
E201	A042				
E203	A041				
F101	A229				
F201	A035				
H105	A570				
H167	A165				
I101	A302				
I102	A303				
J103	A271				
0118--1, 2	A150				
0118--3, 4	A147				
0119--1, 2	A149				
0119--3, 4	A148				
0122	A179				
0177	A374				
P101	A200				
P501	A202				
P503	A201				
V201	A032				
V202	A032				
V203	A033				
V204	A033				
V205	A033				
V206	A034				
V207	A034				

By Order of the Secretary of the Army:

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

Official:

KENNETH G. WICKHAM,
Major General, United States Army,
The Adjutant General.

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Corps (2)	Sig FLDMS (2)
USAC (3)	Natl Censorship Sta (5)
Instl (2) except	Units org under fol TOE:-2 ea
Ft Hancock (4)	7
Ft Gordon (10)	11-5
Ft Huachuca (10)	11-6
WSMR (5)	11-35
Ft Carson (25)	11-56
Ft Knox (12)	11-95
Svc Colleges (2)	11-96
USASC8 (60)	11-127
USAAD8 (2)	11-147
USAAMS (2)	11-215
USAARMS (2)	11-216
UBAIS (2)	11-225
USAE8 (2)	11-228
USAAVN8 (5)	11-500(FB, FC, FG, FH
USASES (5)	FJ, FK, FL)
USATC Armor (2)	17
U8ATC Inf (2)	30-500(AA, AB, AC,
USASTC (2)	AF, AG, FC)
Army Dep (2) except	37
LBAD (14)	47
	57

NG: State AG (3); unit - same as active Army except allowance is one copy each.

USAR: None.

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

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

Organizational Maintenance Manual
Including Repair Parts and Special Tool lists

PROJECTION SET, MOTION PICTURE SOUND AS-2(1);
INCLUDING PROJECTORS, MOTION PICTURE SOUND AQ-2A(1), AQ-29(2)
AQ-2A(3), AQ-2A(4)

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

31 July 1961

WARNING

HIGH VOLTAGE

is used in this equipment

DEATH ON CONTACT

may result if
safety precautions
are not observed.

*Be careful not to come in contact with any power con-
nections when testing or repairing this equipment.*

DON'T TAKE CHANCES

	Paragraph	Page
CHAPTER 1. MAINTENANCE INSTRUCTIONS		2
Scope	1	2
Tools, test equipment, and materials	2	2
Preventive maintenance	3	2
Lubrication.....	4	2
CHAPTER 2. TROUBLESHOOTING AND REPAIR		5
Visual inspection.....	5	5
Troubleshooting chart.....	6	5
Repair of power cable	7	7
Replacement of knobs.....	8	7
Replacement of projector feet	9	9
Tube testing and replacement.....	10	10
APPENDIX I. REFERENCES		11
II. MAINTENANCE ALLOCATION.....		12

*This manual supersedes the maintenance allocation portion of TM 11-8730-201-20P and so much of TM 11-2331A,29 December 1954, including C1, 13 July 1958; C2, 19 June 1957; C3, 1 August 1957; C4, 14 October 1958; and C5, 9 April 1959, as is applicable to organizational maintenance of Projection Set, Motion Picture Bound AS-2(1)

This copy is a reprint, which includes current pages from Changes 2.

*This change supersedes C 1, 15 May 1963, and TM 11-6730-201-20P, 21 December 1964.

CHAPTER 1 MAINTENANCE INSTRUCTIONS

1. Scope

a. This manual covers second echelon maintenance of Projection Set, Motion Picture Sound AS-2(1). The operating instructions for this equipment are contained in TM 11-6730-201-10.

b. Second echelon maintenance for Projection Set, Motion Picture Sound AS-2(1) consists of the following:

- (1) Preventive maintenance (paras 3, 3.1, and 3.2).
- (2) Lubrication (para 4).
- (3) Visual inspection (para 5).
- (4) Troubleshooting (para 6).
- (5) Repair of power cable (para 7).
- (6) Replacement of knobs (para 8).
- (7) Replacement of projector feet (para 9).
- (8) Testing electron tubes (para 10).

c. Report of errors, omissions, and recommendations for improving this manual by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to DA Publications) and forwarded direct to Commanding General, U. S. Army Electronics Command, ATTN. AMSEL-ME-NMP-AD, Fort Monmouth, N. J. 07703.

Note. For applicable forms and records, see paragraph 2, TM 11-6730-201-10.

d. Appendix III is current as of 3 August 1967.

1.1. 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.

2. Tools, Test Equipment, and Materials

Parts normally stocked for organizational maintenance are listed in the appendix. The following tools, test equipment, and materials are required:

- a. Tools and Test Equipment.
 - (1) Tool Equipment TK-77/GF
 - (2) Electron Tube Test Set TV-7/U.
 - (3) Multimeter AN/URM-105.
- b. Materials.
 - (1) Wiping cloth, FSN 8305-170-5063.
 - (2) Lens tissue, FSN 6640-393-2090.

3. Preventive Maintenance

a. Organization preventive maintenance is the systematic care, inspection, and servicing of the projector set to maintain it in serviceable condition. prevent breakdowns, and assure maximum operational capability. Preventive maintenance is the responsibility of all categories concerned with the equipment and includes the inspection, testing, and repair or replacement of parts, subassemblies, or units that inspection and tests indicate would probably fail before the next scheduled periodic service. Preventive maintenance checks and services of the projector set at the organizational category are made at monthly intervals, unless otherwise directed by the commanding officer.

b. Maintenance forms and records to be used and maintained on this equipment are specified in TM 38-750. Paragraph 2, TM 116730-201-10, contains additional information concerning submission of specific forms.

3.1. Monthly Maintenance

Perform the maintenance functions indicated in the monthly maintenance checks and services chart (para 3.2) once each month at the same time the daily and weekly procedures (TM 11-6730-201-10) are performed. A month is defined as approximately 30 calendar days of 8-hour-per-day operation. If the equipment is operated 16 hours a day, the monthly maintenance should be performed at 15-day intervals. Adjustment of the maintenance interval must be made to compensate for any unusual operating conditions. Equipment maintained in a standby (ready for immediate operation) condition must have monthly maintenance performed on it. Equipment in limited storage (requires service before operation) does not require monthly maintenance. All deficiencies or shortcomings will be recorded, and those not corrected during the inspection and service will be immediately reported to higher category, using forms and procedures specified by TM 38-750. Equipment that has a deficiency that cannot be corrected by organizational category should be deadlined in accordance with TM 38-750. Perform all the services listed in the monthly maintenance checks and services chart (para 3.2) in the sequence listed. Whenever a normal condition or result is not observed, take corrective action in accordance with the listed References.

3.2. Monthly Maintenance Checks and Services

Sequence No	Item	Procedure	References
1	Publications	a. Check to see that pertinent publications are completed and usable without missing pages. b. Changes pertinent to the equipment are on hand.	a. TM 11-6730-201-10. b. DA Pam 310-4.
2	MWO's	Check DA Pam 310-4 to see if new applicable MWO's have been published. If any new ones have been published, check to be sure that all URGENT MWO's have been applied and that all ROUTINE MWO's have been scheduled.	DA Pam 310-4.
3	Preservation	a. Check all painted surfaces to be sure that they are free of bare spots, rust, and corrosion. b. Remove rust and corrosion by lightly sanding them with fine sandpaper. Brush two thin coats of paint on bare metal to protect it from further corrosion.	a. Figs. 1, 3, 4, 6, 7, and 8; TM 11-6730-201-10. b. TM 9-213.
4	Covers and Latches.	Check all doors, case covers, and latches to be sure that they close securely.	Figs. 1 and 3; TM 11-6730-201-10.
5	Film patch	a. Remove dirt and dust from parts in path. b. Inspect sprockets for worn teeth; if sprocket teeth are worn, refer to higher category.	a. Fig 17; TM 11-6730-201-10. b. TM 38-750.
6	Scanner lens	Caution: Do not remove or shift position of scanner lens. A change in position will require sound focusing adjustment by higher category. Remove exciter lamp cover; carefully clean both ends of scanner lens with lens tissue wrapped around the end of a toothpick.	Fig. 5.
7	Lubrication	Lubricate equipment in accordance with Instructions (fig. 2). Note. The AQ-ZA(3) requires no lubrication at organizational category.	Para 4.
8	Pluckout Items	Check seating of electron tubes and fuses to be sure that they are secure.	Fig. 4 and 26; TM 11-6730-201-10
9	Mounting	Check to see that projector stand shows no sign of weakness or deformity and that project remains stable when placed in an operating position.	Para 9.
10	Connectors	Check all connectors to be sure that they are clean, have no bent pins, and mate securely.	Para 7.

4. Lubrication
(fig. 2)

a. *General.* Procedures for first echelon lubrication of Sound Motion Picture Projectors AQ-2A(1) and AQ-2A(2) are given in TM 11-6730-201-10. Procedures for second echelon lubrication of the AQ-2A(1) and AQ-2A(2) are given in *b* below. The AQ-2A(3) is not lubricated at first or second echelon.

b. *Lubrication, AQ-2A(1) and AQ-2A(2).* Perform the following procedures after each 30 days of normal 8-hour operation or after long periods of storage.

- (1) Remove the screws and the shuttle outer cover.
- (2) Unscrew and remove the oil reservoir. The oil reservoir is located alongside the FRAMER knob.
- (3) Remove any old oil and sediment from the oil reservoir.
- (4) Place 1/2 cubic centimeter of Lubricating oil, hydraulic (2135-H) in the oil reservoir.
- (5) Replace and secure the oil reservoir.
- (6) Replace the shuttle outer cover and secure with the screws.

Delete figure 1 in accordance with Change 2

CHAPTER 2

TROUBLESHOOTING AND REPAIR

5. Visual Inspection

a. *General.* Before operating the equipment, inspect it. Inspection may save repair time and may avoid damage to the equipment. Inspect the equipment for the following:

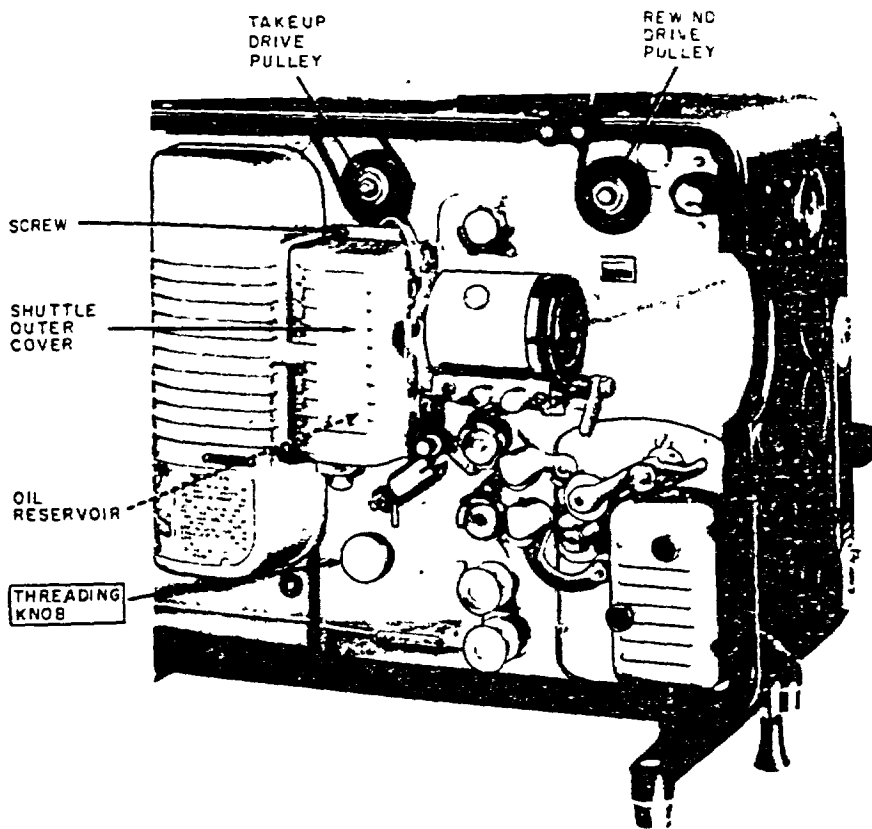
- (1) Damaged lens surfaces.
- (2) Improper action of operating controls.
- (3) Defective cables.
- (4) Loose or missing screws.
- (5) Missing or broken parts.

b. *THREADING KNOB.* Turn the THREADING KNOB (fig. 2) by hand and note the action of the shuttle.

Note any unusual noises of the mechanism or binding of the THREADING KNOB.

6. Troubleshooting Chart

The chart below is furnished as an aid in localizing trouble in the projection set. Only those corrective measures which the organizational maintenance man can apply are given. If the measure suggested does not restore normal equipment performance, troubleshooting is required by a photographic equipment maintenance man at a field maintenance level. Note on the repair tag what corrective measures were taken.



TM 6730-201-20-2

Figure 2. Projector, right-hand side.

a. *General.* Before using the troubleshooting chart, examine the repair tag to see whether the trouble has been sectionalized. If there has been no sectionalization, perform the procedures outlined in the

equipment performance checklist (TM 11-6730-201-10).

b. *Chart.* When performing these checks, refer to figures in TM 11-6730-201-10.

Symptom	Probable cause	Corrective measure
A light pressure causes takeup drive pulley (fig. 2) to turn to the left.	Defective takeup drive pulley clutch.	Higher echelon repair required.
Takeup drive pulley does not turn freely to the right.	Defective takeup drive pulley clutch.	Higher echelon repair required.
A light pressure causes rewind drive pulley (fig. 2) to turn to the right.	Defective rewind drive pulley clutch.	Higher echelon repair required.
Rewind drive pulley does not turn freely to the left.	Defective rewind drive pulley clutch.	Higher echelon repair required.
Threading lamps do not light when THREADING LAMP switch is operated to ON. Lamps are not defective.	Defective power cable	Repair defective power cable (para 7).
One threading lamp does not light when THREADING LAMP switch is operated to ON. Lamp is not defective.	Defective THREADING LAMP switch.	Higher echelon repair required.
THREADING KNOB binds	Defective socket or wiring	Higher echelon repair required.
Projector mechanism and blower fan do not operate when OFF-MOTOR-LAMP is operated to MOTOR. Fuse is not defective.	Projector mechanism binding	Higher echelon repair required.
Projector mechanism, blower fan, and projection lamp do not operate when OFF-MOTOR-LAMP switch is operated to LAMP.	Defective OFF-MOTOR-LAMP switch.	Higher echelon repair required.
Turning leveling screw does not level projected image.	Defective leveling screw	Replace defective leveling screw or projector foot (para 9).
Turning elevation knob does not raise or lower projected image.	Defective elevation knob or pin	Replace elevation knob or pin (para 8).
Illumination of projected image is uneven. Movement of lamp adjustment levers does not help.	Defective elevation mechanism	Higher echelon repair required.
Lens does not slide back and freely for focusing when lens locking screw is loosened.	Defective condenser lens assembly.	Replace condenser lens assembly (TM 11-6730-201-10).
Impossible to focus all four edges of projected frame simultaneously. Lens axis is perpendicular to screen.	Defective lens assembly	Higher echelon repair required.
Projection lamp, blower fan, or projector mechanism continue to operate after OFF-MOTOR-LAMP switch is operated to OFF.	Defective aperture plate	Higher echelon repair required.
Automatic loopsetter does not automatically restore picture clarity. Adjustment of automatic loopsetter does not help.	Defective OFF-MOTOR-LAMP switch.	Higher echelon repair required.
	Defective automatic loopsetter	Higher echelon repair required.

Symptom	Probable cause	Corrective measure
Exciter lamp indicator does not glow after amplifier is warmed. Exciter lamp is not defective. Amplifier tube 6AQ5 is not defective.	Defective amplifier circuitry	Higher echelon repair required.
FRAMER knob will not frame projected image.	FRAMER knob loose or defective.	Tighten loose or replace defective FRAMER knob.
Focusing knob will not focus projected image.	Focusing knob loose or defective.	Tighten loose or replace defective focusing knob.
VOLUME control knob will not adjust volume.	VOLUME control knob loose or defective.	Tighten loose or replace defective VOLUME control knob.
TONE control knob will not adjust tone.	TONE control knob loose or defective.	Tighten loose or replace defective TONE control knob (para 5).
Speaker selector switch does not cause indicated speaker to operate.	Defective speaker selector switch.	Higher echelon repair required.
Rewind action does not begin when REWIND switch is operated to ON.	Defective REWIND switch	Higher echelon repair required.

7. Repair of Power Cable

(fig. 3)

The power cable may be repaired by replacing the male plug (a below), by replacing the female plug (b below), and by checking the power cable for continuity (c below).

a. Replacing Male Plug.

- (1) Remove the screws with the ground prong and pull the chain from the male plug.
- (2) Remove the strain relief fitting.
- (3) Remove the insulator.
- (4) Mark and disconnect the leads and remove the male plug.
- (5) Install the replacement male plug by reversing the procedures in (1) through (4) above.

b. Replacing Female Plug.

- (1) Remove the screws and strain relief clamp from the female plug.
- (2) Remove the screws and rear cover.
- (3) Mark and unsolder the leads, and remove the female plug.
- (4) Install the replacement female plug by reversing the procedures in (1) through (3) above.

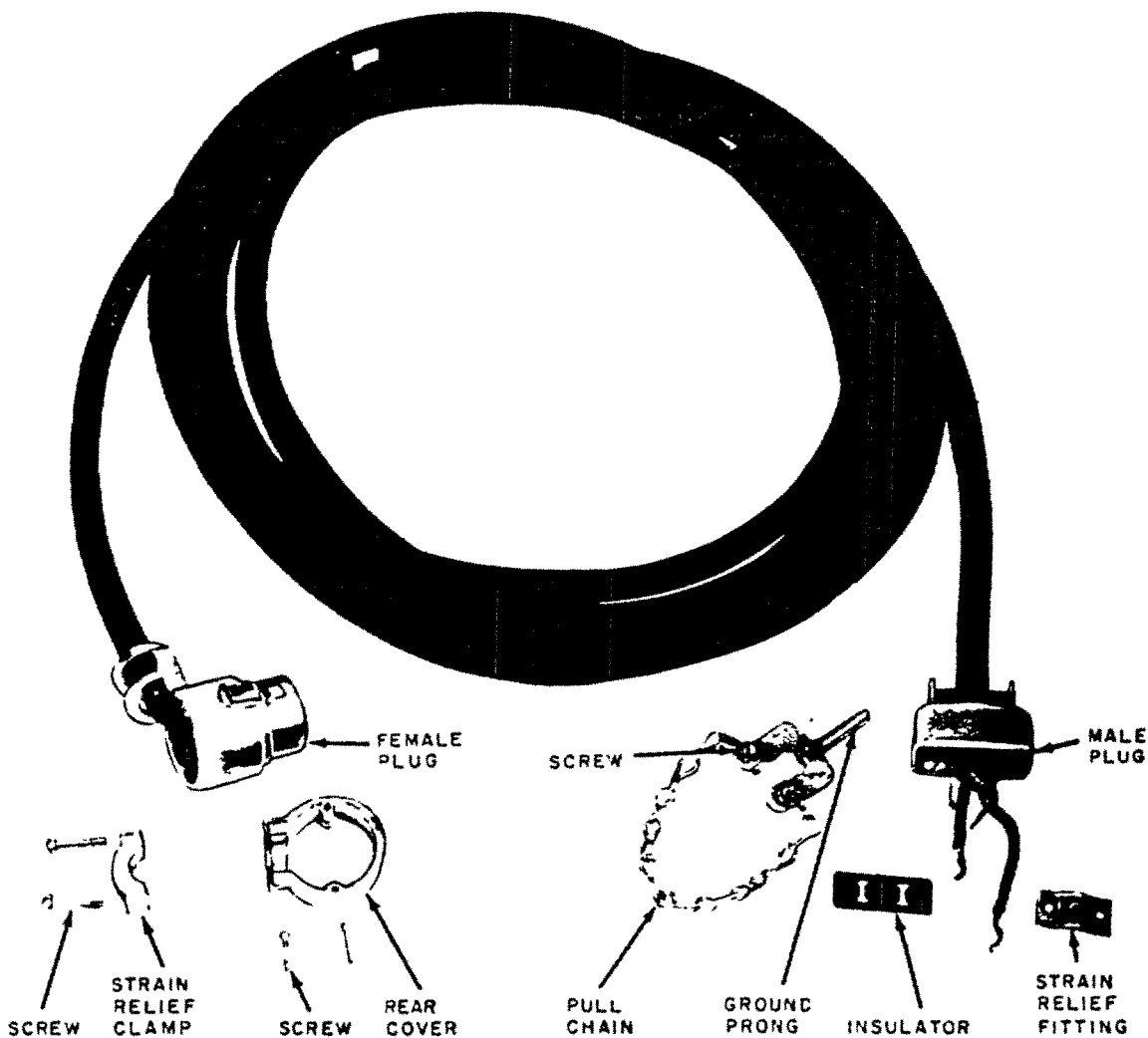
c. Checking Power Cable. Use Multimeter AN/URM-105 to check the power cable for continuity. The correct readings between points on the male plug and the female plug are as follows:

From	To	Resistance (ohms)
Male Plug: One prong	Female Plug: Pin 1	Less than 1
	Pin 2	Infinite
	Pin 3	Infinite
Opposite prong	Pin 1	Infinite
	Pin 2	Infinite
	Pin 3	Less than 1
Ground prong	Pin 1	Infinite
	Pin 2	Less than 1
	Pin 3	Infinite

8. Replacement of Knobs

a. OFF-MOTOR-LAMP Switch Knob (fig. 4).

- (1) Remove the machine screw from the knob.
- (2) Remove the knob from the switch shaft.
- (3) Position the replacement knob on the switch shaft so that the shaft pin engages the recessed portion of the knob.
- (4) Replace and tighten the machine screw to secure the knob.



TM 6730-201-20-3

Figure 3. Power cable plugs exploded.

b. *TONE Control, VOLUME Control, THREADING KNOB, and Focusing Knob.* Replace the TONE control or the VOLUME control knob (fig. 4), and the THREADING KNOB or the focusing knob (fig. 5) as follows:

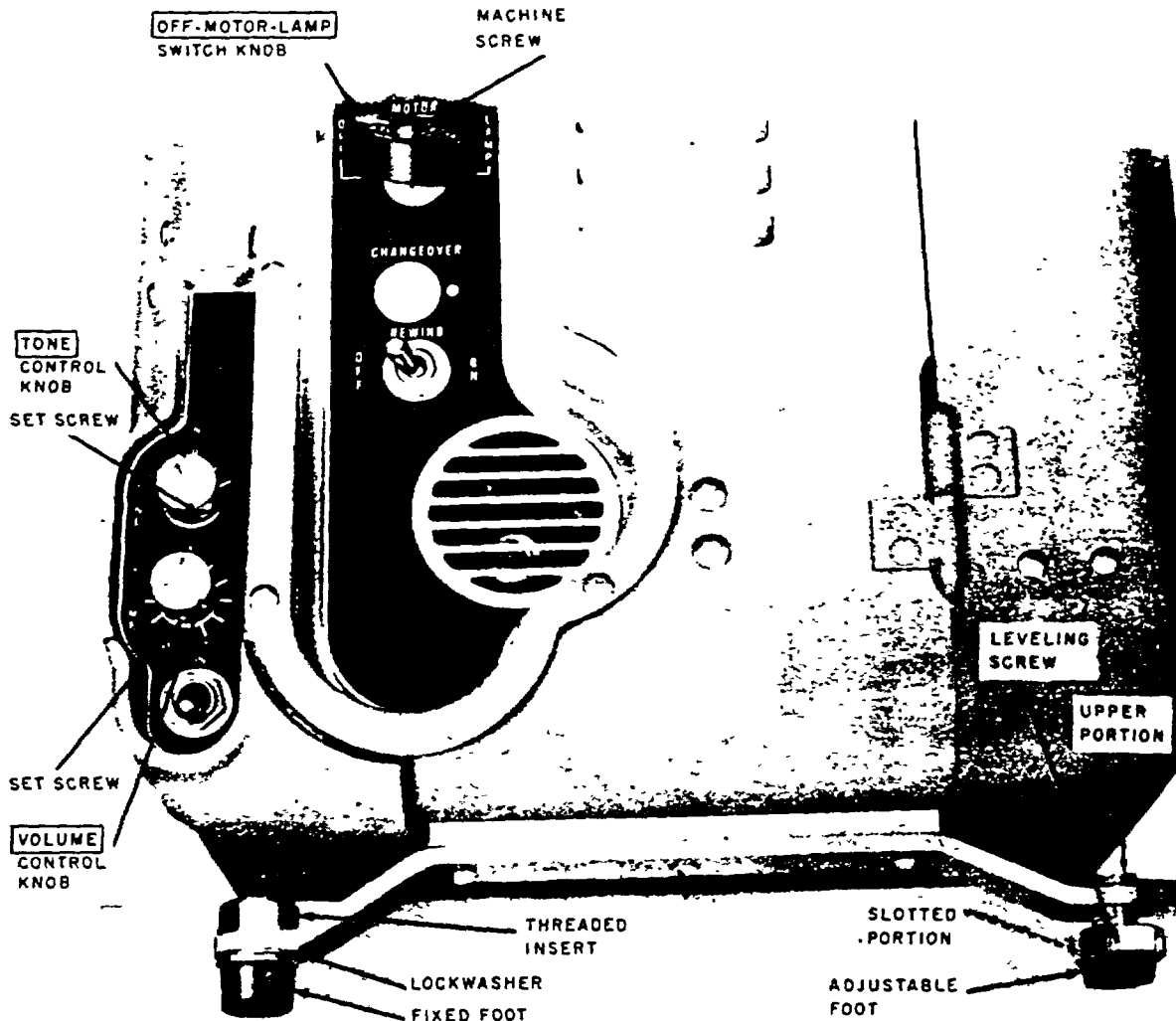
- (1) Loosen the setscrew and remove the knob from the shaft.
- (2) Position the replacement knob on the shaft with the setscrew over the flat part of the shaft.
- (3) Tighten the setscrew to secure the knob.

c. *FRAMER Knob (fig. 5).*

- (1) Loosen the two setscrews and remove the knob from the shaft.
- (2) Install the replacement knob on the shaft and tighten the setscrews.

d. *Elevation Knob (fig. 5).*

- (1) Drive out the pin that secures the knob to the shaft.
- (2) Remove the knob from the shaft.
- (3) Install the replacement knob on the shaft so that the holes in the knob are aligned with the holes in the shaft.



TM 6730-201-20-4

Figure 4. Projector, rear view.

- (4) Insert the pin in the knob and shaft hole and tap it into place.

9. Replacement of Projector Feet
(fig. 4)

The projector is equipped with three fixed feet (a below) and one adjustable foot (b below).

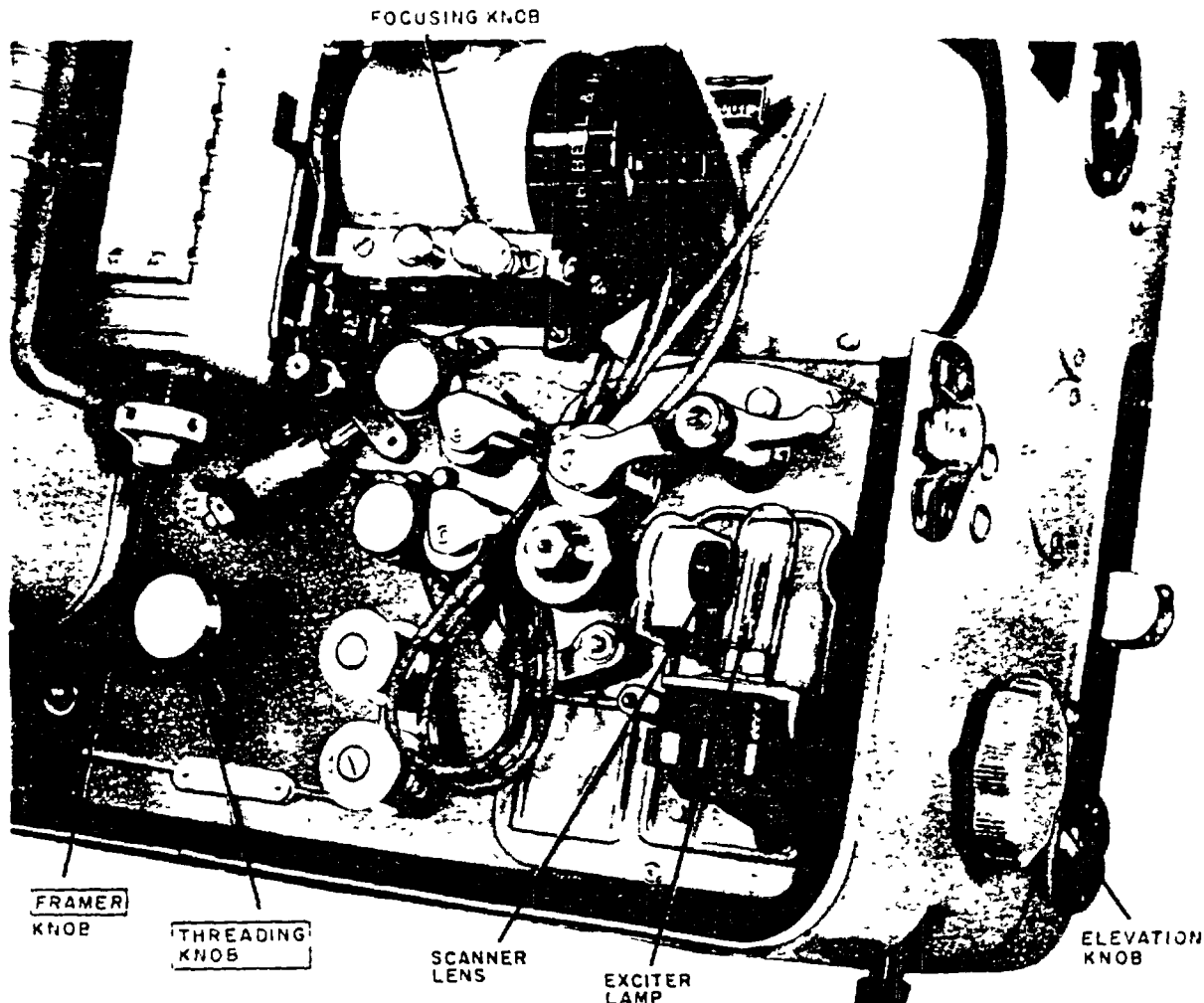
a. *Fixed Feet.* Replace one of the projector fixed feet as follows:

- (1) Use the adjustable wrench to unscrew the foot from the threaded insert. Remove the lockwasher.

- (2) Place the lockwasher on the replacement foot.
- (3) Screw the replacement foot into the threaded insert and tighten with the adjustable wrench.

b. *Adjustable Foot.* Replace the adjustable foot as follows:

- (1) Hold the upper portion of the adjustable foot with pliers and use a screwdriver in the slotted portion of the foot to unscrew the foot.
- (2) Remove the foot from the leveling screw.
- (3) If replacement of the leveling screw is required, remove it and



TM 6730-201-20-5

Figure 5. Projector, right-hand side, exciter lamp cover removed.

- screw in a replacement leveling screw.
- (4) Install the replacement foot in the leveling screw by reversing the procedures in (1) and (2) above.

10. Tube Testing and Replacement

When trouble occurs, check all cabling and connections before removing any tubes. Try to isolate the trouble to a component or stage. If tube failure is suspected, use Electron Tube Test Set TV-7/U and test the tubes as follows:

Caution: Never rock or rotate a tube when pulling it from a socket; pull it straight out with a tube puller.

- a. Remove and test one tube at a time.
- b. Discard a tube only if its defect is obvious or if the tube tester shows it to be defective.
- c. Do not discard a tube that tests at or slightly below its minimum test limit on the tube tester.
- d. Replace the original tube, or install a new one if required, before testing the next tube.

APPENDIX I

REFERENCES

Following is a list of references applicable and available to the organizational maintenance man of Projection Set, Motion Picture, Sound AS-2(1).

DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Manuals (Types 7, 8, and 9), Supply Bulletins, and Lubrication Orders.	TM 11-6625-203-12	LS-170/PFP-1, LS-170A/PFP-1, and LS-170B/PFP-1. Operator and Organizational Maintenance Manual: Multimeter AN/URM-105, Including Multimeter MS-77/U.
TB-11-6625-274-12/1	Test Data for Electron Tube Test Sets TV-7/U, TV-7A/U, TV-7B/U, and TV-7D/U.	TM 11-6730-201-10	Operator's Manual: Projection Set, Motion Picture, Sound AS-2(1); and Projection, Motion Picture
TM 9-213	Painting Instructions for Field Use.		Sound AQ-2A(1), AQ-2A(2), and AQ-2A(3).
TM 11-5965-229-15P	Organizational, DS, GS, and Depot Maintenance Repair Parts: Loudspeakers, Permanent Magnet	TM 38-750	Army Equipment Record Procedures.

APPENDIX II

MAINTENANCE ALLOCATION

Section I. INTRODUCTION

1. General

a. This appendix 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.* This column shows only the nomenclature or standard item - name. Additional descriptive data are 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 operations. These are defined as follows:
 - (a) *Service.* To clean, to preserve, and to replenish fuel and 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, and meters.
 - (e) *Replace.* To substitute serviceable assemblies, subassemblies, and parts for unserviceable components.
 - (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 inspecting, cleaning, preserving, adjusting, replacing, welding, riveting, and straightening.

(g) *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, 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. Echelon 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 of the maintenance allocation chart indicate 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 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) *2d, 3d, 4th, 5th echelon.* A dagger (†) 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.

2. Maintenance by Using Organizations

When this equipment is used by signal service organizations organic to theater headquarters 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.

3. Mounting Hardware

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

Section II. 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
PROJECTION SET, MOTION PICTURE, SOUND, AS-2(1) (Including Projector, Motion Picture Sound AQ-2(1): AQ-2A(2),AQ-2a(3)	service	X	X				12	Clean and lubricate, band tighten lubricate and prev maint Operations) Operational Optical mechanical, audio Visual Operational-continuity Optical, mechanical & audio Operation, continuity, tubes Optical, mechanical, audio
	adjust	X	X		X		12 1,7,9,11	
	inspect	X	X		X		8, 12 1,4,7,9,10,11,12	
	test		X		X	X	6,8 1,2,3,4,5,7,8,9	
	repair rebuild				X		X 10,11,12 10,11,12	
DYNAMIC LOUDSPEAKER LS-170/PFP1; LS-170A/PFP-1 LOUDSPEAKER PERMANENT MAGNET LS-170B/PFP-1								See separate MAC
PROJECTOR, MOTION PICTURE, SOUND AQ-2A(1), AQ-21(2): AQ-2(3)	repair				X			
AMPLIFIER GROUP								
APERATURE PLATE KIT	replace			X			11	
CAPACITORS	replace			X			11,12	
CONNECTOR RECEPTACLE	replace			X			11,12	
ELECTRON TUBES	replace	X						
FUSE, CARTRIDGE	replace	X						
FUSEHOLDER	replace			X			11	
JACK	replace				X		10	
KNOB	replace		X				12	
LAMP, INCANDESCENT	replace	X						
LOUDSPEAKER, PERMANENT MAGNET	replace				X		10	
RESISTORS	replace			X			11	
SHAFT, ASSEMBLY	replace				X		10,11	
SHEILDS, ELECTRON TUBE	replace		X				12	
SOCKETS, ELECTRON TUBE	replace			X			11	
SWITCH, ROTARY	replace				X		10	
SWITCH, TOGGLE	replace			X			11	
TERMINAL BOARD	replace			X			11	
TERMINAL LUGS	replace			X			11	
TRANSFORMER, RADIO FREQUENCY	replace			X			11	

*AS-2(1); Incl AQ-2A(1); AQ-2A(2); AQ-2A(3)

(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
AS-2(1): Incl A0-2A(1), (2), (3) (continued)								
TRANSFORMER,	replace			X			11	
TRANSFORMER, POWER, STEP-UP AND STEP-DOWN	replace			X			11	
PROJECTOR GROUP								
ARM	replace			X			11	
ARMATURE, MOTOR	replace				X		10	
ARMATURE, MOTOR ASSEMBLY	replace				X		10	
BEARING	replace			X			11	
BEARING, BALL	replace				X		10	
BEARING, BALL, ANNULAR: 0310	replace				X		10	
BEARING, BALL, ANNULAR: 0295, 0296	replace			X			11	
BEARING, BALL, TRUST	replace			X			11	
BEARING, ROLLER, NEEDLE: 0293, 0294	replace			X			11	
BEARING, ROLLER, NEEDLE: 0297, 0298	replace				X		10	
BEARING, SLEEVE	replace				X		10	
BELT	replace	X						
BELT, SPRING	replace	X						
BLOCK, PIVOT	replace				X		10	
BRUSH, ELECTRICAL CONTACT	replace			X			11	
BUMPER	replace		X				12	
BUTTON, GRIP	replace			X			11	
CABLE, POWER, ELECTRICAL	replace		X				12	
CAM, CLUTCH	replace				X		10	
CAP, ELECTRICAL	replace			X			11	
CAPACITORS	replace			X			11	
CHAIN, SILENT	replace				X		10	
CLUTCH, FRICTION	replace				X		10	
COLLAR, SPACING	replace			X			11	
CONNECTORS, PLUG, ELECTRICAL	replace		X				12	
CONNECTOR, RECEPTACLE, ELECTRICAL	replace		X				12	
COUNTER, RECIPROCATING, FIXED	replace				X		10	
COUNTERWEIGHT	replace			X			11	
COUPLING, FLEXIBLE	replace			X			11	
DRIVE, COUNTER MECHANISM	replace			X			11	
DRUM, SOUND HEAD	replace				X		10	
EXCITER LAMP KIT	replace				X		10	
FILTERS, RADIO INTERFERENCE	replace			X			11	
FOOT, MOUNTING	replace		X				12	
FRONT CAM GEAR KIT	replace				X		10	
FRONT CAMSHAFT SPACER KIT	replace				X		10	
FUSE, CARTRIDGE	replace	X						

AS-2(1); Incl AQ-2A(1), (2), (3)

B

(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
AS-2(1); Inc1 AQ-2A(1), (2), (3) (continued)								
FUSEHOLDER	replace			X			11	
GASKET	replace				X		10	
GEAR, HELICAL	replace				X		10	
GEAR, RACK: 0346	replace				X		10	
GEAR, RACK: 0142	replace			X			11	
GEAR, SHAFT	replace				X		10	
GEAR, SPUR: 0144	replace			X			11	
GEAR, SPUR: 0149, 0150	replace				X		10	
GEAR, WORM	replace				X		10	
GEAR ASSEMBLIES	replace				X		10	
GOVERNOR, MOTOR	replace			X			11	
HOLDER, ELECTRICAL CONTACT BRUSH: H113	replace				X		10	
HOLDERS ELECTRICAL CONTACT, BRUSH: H114, H115	replace			X			11	
HOLDER ASSEMBLY	replace				X		10	
HOUSING	replace			X			11	
IMPELLER, BLOWER, CENTRIFUGAL	replace				X		10	
KNOBS	replace		X				12	
LAMPS, INCANDESCENT	replace	X						
LAMPHOLDER: J105	replace			X			11	
LAMPHOLDER: J107, J08	replace				X		10	
LEGS, PROJECTOR	replace		X				12	
LENS, CONDENSER, PHOTOGRAPHIC	replace		X				12	
LENS, INDICATOR LIGHT	replace		X				12	
LENS, PROJECTION, VIEWING	replace	X						
LEVER	replace			X			11	
LINK, LEVER	replace			X			11	
MOTOR, UNIVERSAL	replace			X			11	
MOUNT, VIBRATION	replace				X		11	
MOUNTING, A219	replace			X			11	
MOUNTINGS: A155, A169	replace				X		10	
MOUNTING ASSEMBLY	replace				X		10	
MOUNTING ASSEMBLY, LAMP	replace				X		10	
NUT, CAP	replace			X			11	
NUT, PLAIN, HEXAGON	replace				X		10	
NUT, SELF-LOCKING, HEXAGON	replace			X			11	
NUT, SELF-LOCKING, KNURLED	replace			X			11	
OIL WICK LIT	replace			X			11	
OPTICAL SYSTEM	replace				X		10	

AS-2(1), Incl AQ-2A(1), (2), (3)

C

(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
AS-2(1): Incl AQ-2A(1), (2), (3) (continued)								
PHOTO-ELECTRIC CELL	replace			X			11	
PIN, DOWEL	replace			X			11	
PIN, GROOVED, HEADLESS	replace				X		10	
PINS, ROLLER	replace			X			11	
PLATE, ADJUSTING	replace			X			11	
PLATE, CLUTCH	replace				X		10	
PLATE, PRESSURE	replace		X				12	
PLATE, TRUST	replace			X			11	
PLATES, MOUNTING	replace			X			11	
PLATE, SUB-ASSEMBLY, APERTURE	replace			X			11	
PRISM KIT	replace				X		10	
PULLEY, GROOVE	replace				X		10	
PULLEYS	replace			X			11	
PULLEY ASSEMBLY	replace			X			11	
REEL, PHOTOGRAPHIC, FILM	replace		X				12	
REFLECTOR ASSEMBLY, LIGHT	replace			X			11	
RESISTORS	replace			X			11	
RETAINER, SPRING	replace			X			11	
RETAINERS, DISK	replace			X			11	
RINGS RETAINER: 0194, 0195, 0196, 0198, 0199	replace			X			11	
RINGS, RETAINING- 0197, 0202	replace				X		10	
ROD, LOCKING	replace					X	10	
ROLLER, IDLER	replace			X			11	
ROLLERS, FILM	replace			X			11	
ROLLER ASSEMBLY, FILM: 0212	replace				X		10	

AS-2(1); Incl 4Q-2A(1),(2), (3)

D

(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
AS-2(1): Incl A0-2A(1), (2), (3) (continued)								
ROLLER ASSEMBLIES, FILM: 0210, 0211	replace			X			11	
ROLLER ASSEMBLY, GUIDE	replace			X			11	
SHAFTS	replace				X		10	
SHAFTS: 0235, 0236, 4400	replace			X			11	
SHAFT ASSEMBLY	replace				X		10	
SHOE, FILM	replace			X			11	
SHUTTER, PROJECTION	replace				X		10	
SHUTTLE	replace			X			11	
SOCKET, ELECTRON TUBE	replace			X			11	
SPINDLE ASSEMBLY, REEL	replace			X			11	
SPRING, FLAT	replace			X			11	
SPRING, HELICAL EXTENSION: 0272	replace				X		10	
SPRINGS, HELICAL, COMPRESSION	replace			X			11	
SPRINGS, HELICAL, EXTENSION	replace			X			11	
SPROCKET, CHAIN: 0275, 0301	replace				X		10	
SPROCKET, CHAIN: 0274	replace			X			11	
SPROCKET, FILM	replace			X			11	
SPROCKETS, WHEEL	replace				X		10	
STRIPPER, FILM	replace			X			11	
SWITCHES, ROTARY	replace			X			11	
SWITCHES, TOGGLE	replace			X			11	
TERMINALS, LUG	replace			X			11	
THUMBSCREW	replace			X			11	
VENT, GRILLE	replace				X		10	

AS-2(1); Incl AQ-2A(1), (2), (3)

E

APPENDIX III

ORGANIZATIONAL REPAIR PARTS

Section I. INTRODUCTION

1. Scope

This appendix contains a list of repair parts required for the performance of organizational maintenance for Projection Set, Motion Picture, Sound AS-2 (1). Each group is arranged in alphabetical sequence. Note No special tools, test, and support equipment are required.

2. General

The repair parts list is divided into the following sections:

a. Prescribed Load Allowance (PLA), Section II. The PLA is a consolidated listing of repair parts allocated for initial stockage at the organizational maintenance category. This is a mandatory minimum stockage allowance.

b. Repair Parts for Organizational Maintenance, Section III. Repair parts authorized for organizational maintenance are included in this section.

Note. All indexes noted below are cross referenced to index numbers. The index numbers appear in ascending sequence in column 1 of the repair parts list (para 3a). The index number for the particular item will be the same for the item in all sections of this appendix.

c. Federal Stock Number Cross Reference to Index Number, Section IV. This is a cross reference index of Federal stock numbers to index numbers.

d. Figure and Item Number Cross Reference to Index Number, Section V. This is a cross reference index of figure number and item number (or reference designation) to index number. The figure numbers are listed in numerical sequence; item numbers and/or reference designations are listed for each figure. Where applicable, when the same reference designation is used on different models, the usable on code (para 3c) is indicated after the reference designation (e.g., "E119-1,2; E119-3, 4").

e. Reference Designation Cross Reference to Index Number, Section VI. This is a cross reference index of reference and/or item numbers to index numbers. Where applicable, when the same reference designation is used on different models, the usable on code (para 3c) is indicated after the reference designation (e.g., "E119-1, 2; E119-3, 4").

3. Explanation of Columns

An explanation of the columns is given below.

a. Source, Maintenance, and Recoverability Codes (SMR) and Index Numbers Column. The first line in this column lists the applicable SMR codes for the part. Listed in ascending order directly below the SMR codes is the index number assigned to the repair part.

- (1) *Source code (S).* The selection status and source for the listed item is noted here. Source code and its explanation is as follows:

Code	Explanation
P ---	Applies to repair parts that are stocked in or supplied from the GSA/DSA, or Army supply system, and authorized for use at indicated maintenance categories.

- (2) *Maintenance code (M).* The lowest category of maintenance authorized to install the listed item is noted here.

Code	Explanation
O	Organizational Maintenance
(3)	<i>Recoverability code (R).</i> The information in this column indicates whether unserviceable items should be returned for recovery or salvage.

Recoverability code and its explanation is as follows:

Note. When no code is indicated in the recoverability column, the part will be considered expendable.

<i>Code</i>	<i>Explanation</i>
R ---	Applies parts and assemblies which are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis.

b. Federal Stock Number Column. The Federal stock number for the item is listed in this column.

c. Description Column. This column includes the Federal item name and any additional description of the item required, the manufacturer's part number (reference number), and the applicable five-digit Federal Supply Code for Manufacturers (para 5). Also included in this column are the designators 1, 2, 3, 4, etc. listed under the heading Usable on Code. The designators, which are explained at the beginning of the description column in the repair parts list, indicate that the part is used on the model or serially numbered groups so identified.

d. Unit of Issue Column: The unit used as a basis of issue (e.g., ea, pr, ft, yd, etc.) is indicated in this column.

e. Quantity Incorporated in Unit Pack Column. Not used.

f. Quantity Incorporated in Unit Column. The quantity of repair parts in an assembly is given in this column.

g. Maintenance Allowances Column.

- (1) The maintenance allowance columns are divided into subcolumns. Indicated in each subcolumn opposite each item is the total quantity of items authorized for the number of equipments supported. Items authorized for use as required, but not for initial stockage, are identified with and asterisk (*) in the allowance column.

- (2) The quantitative allowances for organizational category of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.

- (3) Subsequent changes to organizational allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be forwarded to Commanding General, U. S. Army Electronics Command, ATTN: AMSEL-ME-NMP-RS, Fort Monmouth, N. J. 07703, for exception or revision to the allowance list. Revisions to the range of items authorized will be made by the USA ECOM National Maintenance Point based upon engineering experience, demand data, or TAERS information.

h. Illustrations Column.

- (1) *Figure number (a).* The number of the illustration in which the item is shown is indicated in this column.
- (2) *Item No. or reference designation (b).* The callout number or reference designation used to reference the item in the illustration appears in this column.

4. Location of Repair Parts

a. This appendix contains three cross-reference indexes (sec IV, V, and VI), to be used to locate a repair part when either the Federal stock number, reference number (manufacturer's part number), figure number, or reference designation is known. The first column in each cross-reference index is prepared, as applicable, in numerical or alphanumeric sequence. The last column of each cross-reference index lists the index number assigned to the part.

b. Refer to the appropriate cross-reference index (paras 2c, d, e) and note the index number in the last column; then refer to the repair parts list to locate the index number which is listed in ascending order in column 1 of the repair parts list.

5. Federal Supply Codes

This paragraph lists the Federal supply code and the associated manufacturer's name.

<i>Code</i>	<i>Manufacturer</i>
71468	ITT Cannon Electric Inc
800W3	Army Electronics Command
81349	Military Specifications

SECTION II. PRESCRIBED LOAD ALLOWANCE

(1) FEDERAL STOCK NUMBER	(2) DESCRIPTION USABLE ON CODE	(3) QTY INC IN UM PK	(4) 15-DAY ORG MAINT. ALLOWANCE			
			(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100
<p>NOTE: Usable on Code 1 refers to Projector AQ-2A(1); 2 refers to AQ-2A(2); 3 refers to AQ-2A(3); 4 refers to AQ-2A(4).</p>						
<p>GROUP I AMPLIFIER GROUP</p>						
5355-284-5131	KNOB, CONTROL (VOLUME AND TONE): SM-B-338951; 80063	1,2,3,4	*	*	*	2
5920-284-6733	FUSE: 8/10 amp: SM-B-338972; 80-063	1,2,3,4	2	2	3	6
5960-262-9182	ELECTRON TUBE: MIL-E-IB TYPE No. 6x4WA; SM-D-338876-8; 80063	1,2,3,4	*	2	2	3
5960-669-6861	ELECTRON TUBE: JAN type 6AQSX; SM-D-338876-7; 80063	1,2,3,4	*	2	2	3
5960-827-8724	ELECTRON TUBE: JAN type 12AX7; SM-D-338876-6; 80063	1,2,3,4	*	2	2	3
6240-155-7857	LAMP, INCANDESCENT (AMP INDICATOR): AN340-328; 81349	1,2,3,4	*	2	2	3
<p>GROUP II PROJECTOR GROUP</p>						
3030-629-0969	BELT, FRONT, FEED: SM-B-339106; 80063	3,4	*	2	2	3
3030-629-0970	BELT, REAR, TAKE-UP: SM-B-339105; 80063	3,4	*	2	2	3
5305-341-7865	THUMBSCREW: Lens lock; SM-B-338374; 80063	1,2,3,4	*	*	*	2
5920-199-9502	FUSE, CARTRIDGE: 15 amp; SM-D-338340-13; 80063	1,2,3,4	*	2	2	3
6145-186-1493	CABLE., POWER, ELECTRICAL: SM-B-339151; 80063	1,2,3,4	*	*	*	2
6240-155-8018	LAMP, INCANDESCENT, PROJECTION: 1000 W; MS35404-5; 81349	1,2,3,4	2	2	3	6
6240-156-1568	LAMP, INCANDESCENT, PROJECTION: 750 W;	1,2,3,4	2	2	3	6
6240-186-6594	LAMP, INCANDESCENT, THREADING: 6 W; 120 V; SM-B-239009; 80063	1,2,3,4	*	2	2	3
6240-243-8336	LAMP, INCANDESCENT, EXCITER: SM-B-339110; 80063	1,2,3,4	2	2	3	6
6730-356-6913	FOOT ASSEMBLY, MOUNTING: SM-B-338865; 80063	1,2,3,4	*	*	*	2
6760-598-9267	BELT, SPRING, REAR, TAKE-UP: SC-B-77142; 80063	1,2	*	2	2	3
6720-598-9268	BELT, SPRING, FRONT, FEED: SC-B-77141; 80063	1,2	*	2	2	3

SECTION III. REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION <i>Reference Number & Mfr Code Usable on Code</i>	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(8) ILLUSTRATION	
						(a) 1-5	(b) 6-20	(c) 21-150	(d) 51-100	(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
----R A001	6730-663-9813	PROJECTION SET, MOTION PICTURE, SOUND AS-2(1); 16mm w/internal and external speaker (This item is nonexpendable) NOTE: Usable on Code 1 refers to Projector AQ-2A(1) 2 refers to AQ-2A(2); 3 refers to AQ-2A(3); 4 refers to AQ-2A(4) GROUP I AMPLIFIER GROUP									
P-O A032	5960-827-8724	ELECTRON TUBE: JAN type 12AX7; SM-D-338876-6; 1,2,3,4	ea		2	*	2	2	3		V201, V202
P-O A033	5960-669-6861	ELECTRON TUBE: JAN type 6AQSW; SM-D-338876-7; 80063 1,2,3,4	ea		3	*	2	2	3		V203, V204, V205
P-O A034	5960-262-9182	ELECTRON TUBE: MIL-E-1B type No. 6x4WA; SM-D-338876-8; 80063 1,2,3,4	ea		2	*	2	2	3		V206, V207
P-O- A035	5920-284-6733	FUSE: 8/10 amp; SM-B-338972; 80063 1,2,3,4	ea		1	2	2	3	6		F201
P-O A041	5355-284-5131	KNOB, CONTROL (VOLUME AND TONE): SM-B-33851; 80063 1,2,3,4	ea		2	*	*	*	2	4	E203
P-O A042	6240-155-7857	LAMP, INCANDESCENT (AMP INDICATOR): AN340-328; 81349 1,2,3,4	ea		1	*	2	2	3	4	E201
		GROUP II PROJECTOR GROUP									
P-O A103	6730-356-6867	APERTURE PLATE ASSEMBLY: SM-C 338527; 80063 1,2,3,4	ea		1	*	*	*	*		
P-O A108	6730-629-0971	ARM ASSEMBLY, FEED REEL: SM-D-339038; 80063 3,4	ea		1	*	*	*	*		
P-O A109	6730-567-3001	ARM ASSEMBLY, FEED REEL: SC-D-77684; 80063 1,2	ea		1	*	*	*	*		
P-O A110	6730-392-8970	ARM ASSEMBLY, TAKE-UP REEL: SC-D-77710; 80063 1,2	ea		1	*	*	*	*		
P-O A111	6730-629-0972	ARM ASSEMBLY, TAKE-UP: (Spindle assy, FSN 6760-392-8974 indicates additional carts for this assy); SM-D-339064; 80063 3,4,	ea		1	*	*	*	*		
P-O A147	3030-629-0969	BELT, FRONT, FEED: SM-B-339106; 80063 3,4	ea		1	*	2	2	3	5	0118
P-O A148	3030-629-0970	BELT, REAR, TAKE-UP: SM-B-339105; 80063 3,4	ea		1	*	2	2	3	5	0119
P-O A149	6760-598-9268	BELT, SPRING, FRONT, FEED: SC-B-77141; 80063 1,2	ea		1	*	2	2	3	5	0119
P-O A150	6760-598-9267	BELT, SPRING, REAR, TAKE-UP; SC-B-77142; 80063 1,2	ea		1	*	2	2	3	5	0118
P-O A160	7920-356-4694	BRUSH, CLEANING: SM-D-338340-A; 80063 1,2,3,4	ea		1	*	*	*	*		
P-O A165	5340-356-4695	BUMPER, TILT JACK LEG: SM-B-338830; 80063 1,2,3,4	ea		1	*	*	*	*		H167
P-O A175	6145-186-1493	CABLE, POWER, ELECTRICAL: SM-B-339151; 80063 1,2,3,4	ft		16	*	*	*	2	3	
P-O A179	5977-222-0092	CAP, ELECTRICAL: GE Part/Dwg K5863338AB1; SM-B-338698; 80063 1,2,3,4	ea		2	*	*	*	*		0122
P-O A200	5935-283-8303	CONNECTOR, PLUG, ELECTRICAL: 8 pin; SM-B-338699; 80063 1,2,3,4	ea		2	*	*	*	*		F101
P-O A201	5935-201-7902	CONNECTOR, PLUG, ELECTRICAL: P/O A.C. power cable; SM-B-339152; 80063 1,2,3,4	ea		1	*	*	*	*	3	F503
P-O A202	5935-808-5163	CONNECTOR, PLUG, ELECTRICAL: SM-B-339153; 80063 1,2,3,4	ea		1					3	F501
P-O A227	6730-356-6913	FOOT ASSEMBLY, MOUNTING: SM-B-338865; 80063 1,2,3,4,	ea		3	*	*	*	2		

SECTION III. REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE (CONTINUED)

(1) SMR CODE INDEX NO.	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION <i>Reference Number & Mfr Code Usable on Code</i>	(4) UNIT OF ISSUE	(5) QTY INC IN UNIT PACK	(6) QTY INC IN UNIT	(7) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(8) ILLUSTRATION	
						(a) 1-5	(b) 6-20	(c) 21-150	(d) 51-100	(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
P-O A228	6730-356-6914	FOOT ASSEMBLY, MOUNTING (ADJUSTABLE): SM-B-338869 80063	1,2,3,4	ea	1	*	*	*	*	4	
P-O A229	5920-199-9502	FUSE, CARTRIDGE: 15 amp; SM-D-338340-13; 80063	1,2,3,4	ea	1	*	2	2	3		F101
P-O A271	5935-092-1032	INSERT, ELECTRICAL: (P/O Connector, Receptacle, Electrical FSN 5935-498-0781 (AC power)); 20493; 71468	1,2,3,4	ea	1	*	*	*	*		J103
P-O A272	5935-092-1033	INSERT, ELECTRICAL: (P/O Connector, Plug, Electrical FSN 5935-201-7902); 20494; 71468	1,2,3,4	ea	1	*	*	*	*		
P-O A280	5355-667-9399	KNOB, FOCUSING: SM-B-338504; 80063	1,2,3,4	ea	1	*	*	*	*	5	K122
P-O A284	5355-545-7572	KNOB, ROTARY SWITCH: SC-D-77231-14; 80063	1,2,	ea	1	*	*	*	*	4	K119
P-O A285	5355-667-5496	KNOB, ROTARY SWITCH: SM-B-339007; 80063	3,4	ea	1	*	*	*	*	4	K119
P-O A288	6240-186-6594	LAMP, INCANDESCENT, THREADING: 6 W; 120 V; SM-B-339009; 80063	1,2,3,4	ea	1	*	2	2	3	2	K104
P-O A289	6240-243-8336	LAMP, INCANDESCENT, EXCITER: SM-B-339110; 80063	1,2,3,4	ea	1	2	2	3	6	5	K106
P-O	6240-156-1568	LAMP, INCANDESCENT, PROJECTION: 750 W; MS35404-4; 81349 OR	1,2,3,4	ea	1	2	2	3	6		K105
P-O A291	6240-155-8018	LAMP, INCANDESCENT, PROJECTION: 1000 W; MS35404-5; 81349	1,2,3,4	ea	1	2	2	3	6		K105
P-O A302	6210-500-3980	LENS, INDICATOR LIGHT: SM-B-338788; 80063	1,2,3,4	ea	1	*	*	*	*	2	X101
P-O A303	6760-223-3441	LENS, PROJECTION, VIEWING: SM-B-339085; 80063	1,2,3,4	ea	1	*	*	*	*		I102
P-O A374	6730-763-2164	PRESSURE PLATE ASSEMBLY: SM-C-338518; 80063	1,2,3,4	ea	1	*	*	*	*		O177
P-O A392	6760-282-7988	REEL, PHOTOGRAPHIC FILM: Stored in Loudspeaker LS-170; MIL-R-214B; 81349	1,2,3,4	ea	1	*	*	*	*		
P-O A570	5305-341-7865	THUMBSCREW: lens lock; SM-B-338374; 80063	1,2,3,4	ea	1	*	*	*	2	5	H105

Section III. ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS

(1) TOOLS REQUIRED FOR MAINTENANCE FUNCTIONS	(2) 1ST ECH	(3) 2ND ECH	(4) 3RD ECH	(5) 4TH ECH	(6) 5TH ECH	(7) TOOL CODE	(8) REMARKS
AS-2(1): Incl A0-2A(1), (2), (3) (continued)							
AUDIO OSCILLATOR TS-382A/U				†	†	1	
ELECTRONIC MULTIMETER ME-30A/U				†	†	2	
ELECTRONIC MULTIMETER TS-505A/U				†	†	3	
ELECTRONIC TACHOMETER TS-806/U W/FREQUENCY METER FR-67/U				†	†	4	
ELECTRONIC TUBE TESTER TV-2/U				†	†	5	
ELECTRONIC TUBE TESTER TV-7/U		†	†			6	
FLUTTER INDICATOR PH-593/PFQ			†	†	†	7	
MULTIMETER AN/URM-105		†	†	†	†	8	Multimeter TS-297/U F TS-352/U will be replaced by Multimeter AN/URM-105 when available
SPECTRUM ANALYZER TS-723/U			†	†	†	9	
TOOL EQUIPMENT 24/GF				†	†	10	
TOOL EQUIPMENT 27/GF			†	†	†	11	
TOOL EQUIPMENT TK-77/GF		†	†	†	†	12	

AS-2(1); Incl AQ-2A(1), (2), (3)

F

**SECTION IV. INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE
TO INDEX NUMBER**

FEDERAL STOCK NUMBER	INDEX NO.	FEDERAL STOCK NUMBER	INDEX NO.	FEDERAL STOCK NUMBER	INDEX NO.
3030-629-0969	A147	6760-223-3441	A303		
3030-629-0970	A148	6760-282-7988	A392		
5305-341-7865	A570	6760-598-9267	A150		
5340-356-4695	A165	6760-598-9268	A149		
5355-284-5131	A041	7920-356-4694	A160		
5355-545-7572	A284				
5355-667-5496	A285				
5355-667-9399	A280				
5920-199-9502	A229				
5920-284-6733	A035				
5935-092-1032	A271				
5935-092-1333	A272				
5935-201-7902	A201				
5935-283-8303	A200				
5935-806-5163	A202				
5960-262-9182	A034				
5960-669-6861	A033				
5960-827-8724	A032				
5977-222-0092	A179				
6145-186-1493	A175				
6210-500-3980	A302				
6240-155-7857	A042				
6240-155-8018	A291				
6240-156-1568	A290				
6240-186-6594	A288				
6240-243-8336	A289				
6730-356-6867	A103				
6730-356-6913	A227				
6730-356-6914	A228				
6730-392-8970	A110				
6730-567-3001	A109				
6730-629-0971	A108				
6730-629-0972	A111				
6730-663-9813	A001				
6730-763-2164	A374				

**SECTION V. INDEX-FIGURE AND ITEM NUMBER CROSS REFERENCE
TO INDEX NUMBER**

FIG. NO.	ITEM NO. OR REFERENCE DESIGNATION	INDEX NO.	FIG. NO.	ITEM NO. OR REFERENCE DESIGNATION	INDEX NO.
2	E104	A288			
	I101	A302			
3	P501	A202			
	P503	A201			
4	E119--1, 2	A284			
	E119--3, 4	A285			
	E201	A042			
	E203	A041			
5	E106	A289			
	E122	A280			
	H105	A570			
	I102	A303			
	0118--1, 2	A150			
	0118--3, 4	A147			
	0119--1, 2	A149			
	0119--3, 4	A148			

**SECTION VI. INDEX-REFERENCE DESIGNATION CROSS REFERENCE
TO INDEX NUMBER**

REFERENCE DESIGNATION	INDEX NO.	REFERENCE DESIGNATION	INDEX NO.	REFERENCE DESIGNATION	INDEX NO.
E104	A288				
E105	A290				
E106	A289				
E119--1, 2	A284				
D119--3, 4	A285				
E122	A280				
E201	A042				
E203	A041				
F101	A229				
F201	A035				
H105	A570				
H167	A165				
I101	A302				
I102	A303				
J103	A271				
0118--1, 2	A150				
0118--3, 4	A147				
0119--1, 2	A149				
0119--3, 4	A148				
0122	A179				
0177	A374				
P101	A200				
P501	A202				
P503	A201				
V201	A032				
V202	A032				
V203	A033				
V204	A033				
V205	A033				
V206	A034				
V207	A034				

By Order of the Secretary of the Army:

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

Official:

KENNETH G. WICKHAM,
Major General, United States Army,
The Adjutant General.

Distribution:

Active Army:

USASA (2)	SAAD (30)
CNGB (1)	TOAD (14)
Dir of Trans (1)	LEAD (7)
CofEngrs (1)	SHAD (3)
TOG (1)	NAAD (5)
CofSptS (1)	SVAD (5)
ACSC-E (2)	CHAD (3)
US&ARENBD (2)	ATAD (10)
USACDCEC (10)	Gen Dep (2)
USACDC (Agcy) (1)	Big Sec, Gen Dep (5)
USAMC (5)	81g Dep (12)
USCONARC (5)	BAMC (2)
ARADCOM (5)	WRAMC (1)
ARADCOMRgn (2)	USMATC (2)
OS MaJ Comd (4)	Army Pec Con (2)
USARYIS (5)	AM8 (1)
USARAL (5)	MAAO (2)
LOGCOMD (2)	USAPA (5)
UBAMICOM (4)	UBAERDAA (2)
USASTRAT7OM (4)	USAERDAW (13)
USAESC (70)	USARMA (2)
MDW (1)	USARMIS (2)
Armies (2)	USACRREL (2)
Corps (2)	Sig FLDMS (2)
USAC (3)	Natl Censorship Sta (5)
Instl (2) except	Units org under fol TOE:-2 ea
Ft Hancock (4)	7
Ft Gordon (10)	11-5
Ft Huachuca (10)	11-6
WSMR (5)	11-35
Ft Carson (25)	11-56
Ft Knox (12)	11-95
Svc Colleges (2)	11-96
USASC8 (60)	11-127
USAAD8 (2)	11-147
USAAMS (2)	11-215
USAARMS (2)	11-216
UBAIS (2)	11-225
USAE8 (2)	11-228
USAAVN8 (5)	11-500(FB, FC, FG, FH
USASES (5)	FJ, FK, FL)
USATC Armor (2)	17
U8ATC Inf (2)	30-500(AA, AB, AC,
USASTC (2)	AF, AG, FC)
Army Dep (2) except	37
LBAD (14)	47
	57

NG: State AG (3); unit - same as active Army except allowance is one copy each.

USAR: None.

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

