Change No. 2

HEADQUARTERS DEPARTMENT OF THE ARMY Washington, D.C., 8 August 1973

Direct Support, General Support, and Depot Maintenance Manual Including Repair Parts and Special Tools Lists
PROJECTOR, STILL PICTURE AP-42A

TM 11-6730-236-35, November 1970, is changed as follows:

- 1 Title is changes as shown above
- 2. Remove old pages and insert new pages as Indicated below. New or changed material is indicated by a vertical bar in the margin of the page. Added or revised illustrations are indicated by the appearance of the change number in the identification number When a complete chapter is changed, the vertical bar is placed opposite the chapter title only

None through B-17

3. File this change sheet in front of the publication for reference purposes.

CHANGE (

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 18 March 1971

DS, GS, and Depot Maintenance Manual PROJECTOR, STILL PICTURE AP-42A

TM 11-6730-236-35, 23 November 1970, is changed as follows:

Page i. In the table of contents, the page number for appendix A is changed to read "A-1."

Page 4-3, appendix A The page number "4-3" is changed to read "A-1."

Chapter 5 is added.

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DS. GS. AND DEPOT MAINTENANCE MANUAL PROJECTOR, STILL PICTURE AP-42A

Headquarters, Department of the Army, Washington, D. C. 23 November 1970

WARNING

Be careful when working on the 115-volt ac line connections. Serious INJURY or DEATH may result from contact with these terminals. Remove power when making any inspections inside the equipment.

DON'T TAKE CHANCES!

CAUTION

Handle projection lamps with care. Oils from skin on glass surface of lamp may cause glass to blister and cause damage to projector optics

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C H A P T E R 1 I N T R O D U C T I O N

1-1. Scope

- a This manual provides maintenance instructions on Projector, Still Picture AP-42A, for direct support, general support, and depot maintenance personnel. It includes a functional description: troubleshooting, testing, removal, replacement, and repair instructions for each category of maintenance; direct support and general support testing procedures. References are included as appendix A.
- b TM 11-6730-236-12, Operator and Organizational Maintenance Manual, Projector, Still Picture AP-42A provides operation, installation, and maintenance instructions applicable to operators and organizational maintenance personnel It also provides a physical description of the equipment.

1-2. Indexes of Publications

a DA Pam 310-4 Refer to the latest issue of DA Pam 310-4 to determine whether there are new

editions, changes or additional publications pertaining to the equipment.

b. DA Pam 310-7. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWOs) pertaining to the equipment.

NOTE

For applicable forms and records, see paragraph 1-3, TM 11-6730-236-12.

1-3. Reporting of Equipment Publication Improvements

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

CHAPTER 2

FUNCTIONING OF EQUIPMENT

2-1. General

The projector is a device for projecting a selected image onto a smooth, white plane surface or screen. Single- or double-frame slide or film strips can be shown using the appropriate carrier. Slides are projected with the turret in the horizontal position. Single frame film strip projection exposes a film area of about 18 x 24 millimeters (mm) for each frame of 35-mm film, and is projected with the turret in its upright (vertical) position. Double-frame film strip projection exposes about 24 x 36-mm of 35-mm film area, and is projected with the turret rotated 90° to the horizontal position.

2-2. Optics (fig. 2-1)

The light source is a lamp assembly, that incorporates the projection lamp and sealed-in reflector, which radiates light toward the screen through a heat filter and the projection lens. The heat filter absorbs much of the heat and infra-red rays, and the projection lens gathers the gradients of light passing through the film, inverts them, and projects them on the screen. The light from the lens is in the form of an angle or cone The size of the projected image is proportional to the distance between the projector and the screen The illumination intensity is inversely proportional to the projection distance, the larger the image, the lower the light intensity.

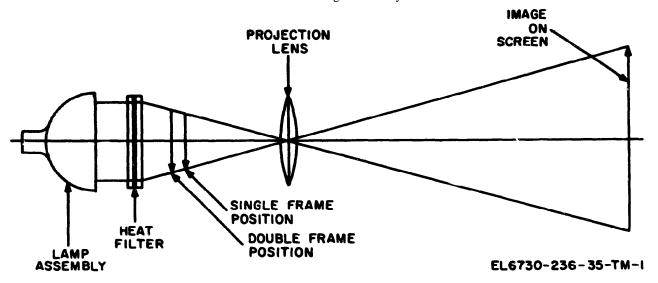


Figure 2-1. Projector optics schematic

2-3. Electrical System (fig. 2-2)

a The projector electrical controls are FAN switch S1 and LAMP switch S2. S2 is inoperative unless S1 is set to ON S1 operates independently of S2

b Input power of 115-volt ac 60-Hz is applied to FAN switch S1 With S1 set to ON, fan motor B1

provides cooling air to the unit, and the input power is applied to LAMP switch S2 With S2 set to ON, the 115-volt input is dropped to 24 volts ac by transformer T1 and applied to lamp DS1, which provides the projection illumination Because S1 and S2 are connected in series, DS1 cannot be turned on without turning on the fan motor

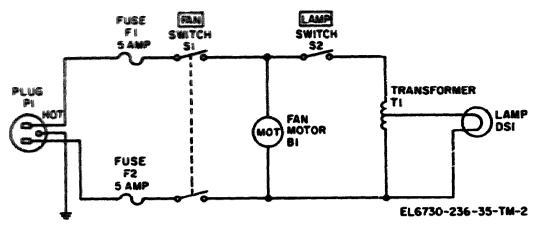


Figure 2-2. Projector electrical schematic

CHAPTER 3 MAINTENANCE

Section I. GENERAL

WARNING

Be extremely careful when troubleshooting or repairing the projector Voltages as high as 115 volts ac are present internally. Use mailated test probes when making voltage measurements. Always disconnect the power cord from the equipment before touching any of the internal parts.

3-1. Scope of Maintenance

The maintenance duties assigned to direct support maintenance personnel are listed below. References to the paragraphs covering the specific maintenance functions are also listed.

- a. Tools, test equipment and materials required (para 3-2).
 - b. Troubleshooting (para 3-5).
 - c. DC resistances (para 3-6).
- d Disassembly, repair, cleaning, inspection, and reassembly (para 3-8 through 3-13).
- 3-2. Tools and Test Equipment Required
 - a Toolkit Photographic Repairmen TK-77.
 - b Toolkit Photographic Repair TK-109/GF.
 - c Multimeter 352/B.

Section II. TROUBLESHOOTING

3-3. General Instructions

Troubleshooting at direct support general support, and depot maintenance categories includes all the techniques described for organizational maintenance, and any special or additional techniques required to isolate a defective part Troubleshooting may be performed while the equipment is operating or, if necessary, after the equipment (or part of it) has been removed from service. Paragraphs 3-4 through 3-6 describe the systematic procedures to be followed which will enable maintenance personnel to isolate the cause of trouble and correct the fault.

3-4. Organization of Troubleshooting Procedures

a General. The first step in servicing a defective projector is to sectionalize the fault. i.e, trace it to the projector, the slide carrier, or the film strip mechanism The second step is to localize the fault to the defective subassembly or assembly The third step, isolation, is tracing the fault to the defective part.

Most faults can be isolated by sight, touch, or sound

- b Visual Inspection. The purpose of visual inspection is to locate faults without testing or measuring circuits or components. All visual signs should be analyzed to help localize the fault to a particular subassembly or component. Mechanical faults are most often localized through visual inspection
- c. Troubleshooting Chart The trouble symptoms listed in the troubleshooting chart (para 3-5) will aid in localizing trouble to a component part.
- d Voltage and Resistance Measurements Figure 2-2 is the electrical schematic The wiring diagram (fig 3-1) shows the location and connection of each component and lead. Checks can be made for primary power (115-volt, 60-Hz) across the motor (terminals 1-3) and 24 volts across the lamp with switches S1 and S2 (FAN and LAMP) closed, and for continuity (motor B1 operative with S1 only closed, and B1 and lamp DSI energized with S1 and S2 closed). Refer to para 3-6 for de resistances.

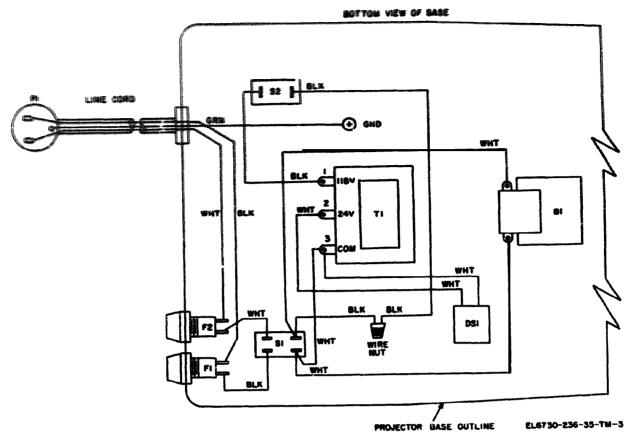


Figure 3-1. Projector wiring diagram

e Intermittent Trouble Check. In all tests, the possibility of intermittent troubles should not be overlooked. Intermittent troubles are often evident by tapping or jarring at various locations Check all wiring

3-5. Troubleshooting Chart

The troubleshooting chart lists the symptoms which the maintenance man observes during operation or while performing preventive maintenance checks and services

WARNING

If possible, before working inside the projector, turn the projector lamp off and operate the fan motor for 2 minutes to cool the lamp. then turn off the fan motor. If it is necessary to work inside the projector with the projection lamp lighted, be careful to avoid contact with the lamp or the rotating fan blades which could cause severe personal injury.

ltem No	Troubleshooting symptom	Probable trouble	Checks and corrective measures
ı	Fan motor does not operate with FAN switch in the on position	External power not being supplied Defective wiring Defective FAN switch (28, fig 3-2) Defective fan motor (57, fig 3-2)	Turn on external power Repair wiring (fig 3-1) Replace FAN switch (para 3-8f and g) Replace motor (para 3-8f through k)
2	Motor operates, but projection lamp does not light with FAN and LAMP switches in the on positions	Defective lamp assembly (24, fig 3-2) Defective wiring Defective LAMP switch (27, fig. 3-2)	Replace lamp assembly (para 3-8e) Repair wiring (fig. 3-1) Replace LAMP switch (para 3-8f and g)
3	Projection lamp lights but does not give enough light	Defective lamp assembly (24, fig 3-2) Defective transformer (51, fig 3-2).	Replace lamp assembly (para 3-8e) Replace transformer (para 3-5; hrough j)
4	Dark, irregular black streaks, spots, smudges, or lines on screen without film being projected	Dirt or dust on optical components A cracked or broken optical component	Clean carefully (para 3–9) Replace defective component

teen Va.	Bearminenterner adeministration	Provinsitée Oroselles	("bergo qui corrector meduares
ī	Britis new their neither tiples new one of	é'racked ar bruken beut tilter (83, tig. 3-2)	Replace the heat filter (para 3 89)
ris .	ar slide darmer being med. Properted mage from either film strip. medicinen or slide ourses is not	Turned not set convectly	Loosen the turret lockscrew and adjust the turret
7	Shark speaks summingers, or streaks there make in properted mage with	films on aperture plate holder (1, 2, fig. 3-3) broken	Replace defective aperture plate holder
*	use of film strip mechanism. Prim does not advance when tim advance knot us tilm strip mechanism.	Film perforations not pressed against sprocket teeth	Realine film in film strip mechanism
*	to rotated Film takeup spool of film strip mechanism does not wind up film	Film takeup spool drive spring (18, fig. 3-3) is out of position	Place the film takeup spool drive spring in the gruoves of the film takeup spool and knob and shaft assembly
		Film takeup spool drive spring (18, fig. 3-3) broken	Repair or replace the film takeup spool drive spring (para 3-11)

3-6. DC Resistances

The resistance checks are made with the equipment disconnected from its source of power, using a multi-meter $TS-352\ B$

a Transformer T1

_ ~		→	
	minab	Resistance to	hme:
	1		
	1-2	ı	
:	2 3	2	
	13	13	

b Motor B1

Motor	Terminals	Resistance (ohms)
Bl	1-2	180
	2-3	180
	1-3	200
	· •	

Section III. DISASSEMBLY, REASSEMBLY, AND ADJUSTMENTS

3-7. Precautions

Most of the parts in Projector, Still Picture AP-42A can be easily removed and replaced without special procedures The following precautions apply

WARNING

Before working on the projector, turn off the projection lamp and operate the fan for two minutes to cool off the lamp

- a Do not attempt to disassemble the projection lens assembly (3, fig 3-2)
- b The bracket subassembly (36, fig 3-3) on the film strip mechanism assembly is riveted and should not be disassembled

3-8. Disassembly of Projector (fig 3-2)

NOTE

To prevent the loss of screws, washers, and or nuts after two or more parts have been disassembled, replace them in the holes from which they have been removed without reassembling the parts

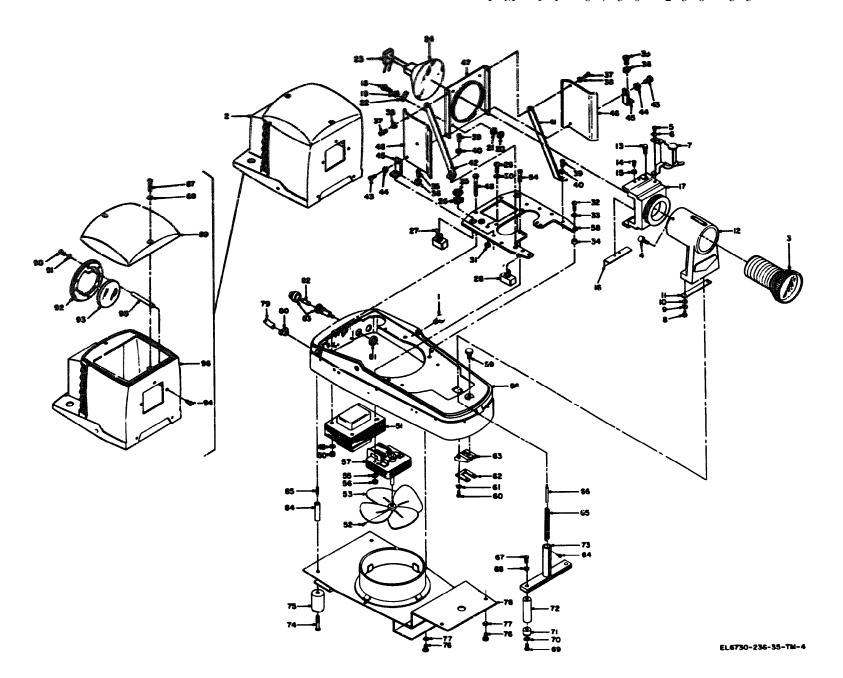


Figure 3-2. Projector exploded view

LEGEND FOR FRICERE 3.2

```
Bounny release wew (2) (Al MP1812)
                                                                                                                               65 Spring (AIMP21H1)
                                                                E Lockwarker (2) (AIMPEHI)
                                                                                                                               66 Spring guide and stud (AIMP21H1)
67 Screw (2) (AIMP21H2)
                                                               34 ** ** ** ** (2) (AIMP41) 
35 *** (2) (AIMP10H4)
 2 Manuary wants (AlA4)
    Projection lens (... LMP27)
                                                               36 Lockwasher (2 (AIMP10H4)
37 Serew (2) (AIMPX2H2)
                                                                                                                               68 Lockwasher (2) (AIMP21H2)
 1 Turret locking serew (AIMP46H2)
5 threw (2) (AIMP46H2)
                                                                                                                                   Screw (2) (A1MP14H2)
                                                                                                                                70 Lockwasner (2) (AIMP14H2)
 th Lockwanter (2) (41MP46H2)
                                                                3n Lockwasher (2) (AIMPX2H2)
                                                                                                                               71 Bumper (2) (AIMP14)
72 Spacer (2) (AIMP40)
                                                                    Screw (2) (AIMP6H2)
    Film condie (AlA2)
                                                               4: Lockwasher (2) (AIMP6H2)
41 Left lamp holder bracket (AIMP6)
  73 Front leg (AIMP21)
74 Screw (2) (AIMP15H2)
9 Lockwarter (2) (AIMPEHL)
16 Waster (2) (AIMPEHL)
                                                                42 Right lamp holder bracket (AIMP8)
                                                                                                                                75 Spacer (2) (AIMP15)
Il spacer bracket (AIMPEHI)
                                                                43 Serew (2) (A1MP10H2)
                                                                                                                                76 Screw (4) (AIA7H4)
12 None piece (AIMP32)
                                                                    Lockwasher (2) (AIMP10H2)
                                                                                                                                77 Lockwasher (4) (AlA7H4)
13 Slide carner and film strip mechanism
                                                                45 Support bracket (2) (AIMPIO)
                                                                46 Shield (2) (A1E2)
47 Lamp nolder (A1X2)
48 Screw (4) (A1MP34H4)
                                                                                                                                78 Plate and fan guard (A
79 Line cord (A1W1)
80 Bushing (A1MP36H1)
        locking screw (AlMP46H2)
    *ere# (4) (AlmPl2H4)
15 Lockwasher (4) (AIMP12H4)
                                                                                                                                81 Nut (2) (A1F2H2)
                                                               49 Lockwasher (4) (A1MP34H4)
50 Nut (4) (A1MP34H4)
16 Bracket (2) (A1MP12)
                                                                                                                               81 Sut (2) (A1F2)

82 Fuse (2) (A1F2)

83 Fuse holder (2) (A1M738)

84 Spacer (2) (A1M738)

85 Stud (2) (A1M738H2)

86 Base (A1M73)
17 Turret (AIMP46)
18 Serew (4) (A1X2H4)
19 Lockwasher (4) (A1X2H4)
20 Nut (4) (A1X2H4)
21 Lockwasher (4) (A1X2H4)
                                                                    Transformer (A1T1
                                                                    Set screw (A1MP4H1)
                                                                53 Fan blade (AIMP4)
                                                               54 Screw (4) (AlBIH4)
55 Lockwasher (4) (AlBiH4)
                                                                                                                               87 Screw (2) (A1A4MP15H2)
88 Lockwasher (2) (A1A4MP15H2)
89 Housing cover (A1A4MP15)
90 Screw (3) (A1A4AMP4H3)
22 Spring shp (4) (A1X2H4)
23 Plug (A1X3)
                                                                    Nut (4) (A1B1H4)
24 Lamp assembly (A1D82)
25 Nut (2) (A1D82H2)
                                                                57 Motor (AlBI)
                                                               58 Mounting plate (A1MP34)
59 Tilt locking knob (A1MP43)
60 Screw (4) (A1A5H4)
26 Lockwasher (2) (A1S1H2, A1S2H2)
27 Switch (LAMP) (A1S2)
                                                                                                                                91 Lockwasher (3) (A1A41AMP4H3)
                                                                                                                                92 Heat filter holder (A1A4A1MP4)
93 Heat filter (A1A4A1FLI)
28 Switch (FAN) (A181)
29 Screw (2) (A1MP34H2)
                                                                61 Lockwasher (4) (A1A5H4)
                                                                                                                                94 Screw (3) (A1A4MP12H3)
                                                               62 Retainer (A1A5H1)
63 Lever and shoe assembly (A1A5)
30 Lockwasher (2) (A1MP34H6)
31 Spacer (4) (A1MP41)
32 Screw (4) (A1MP34H4)
                                                                                                                                95 Spacer (3) (A1A4MP11)
                                                                    Screw (A1MP21H1)
                                                                                                                                96 Housing (A1A4MP3)
```

- a Remove housing (2) by withdrawing two housing release screws (1) and lifting straight up
- b Remove projection lens (3) and place it whew it will not become scratched or dirty.
- c Remove turret locking screw (4) and revolve turret (17) to a horizontal position Remove screw (5) and lockwasher (6) from both sides of turret, and remove film cradle (7) from turret
- d Turret is machined casting and normally will not require repair If necessary, it may be removed from nose piece (12) If turret is removed, be careful to protect external threads. Slide holder bracket (16) may be removed by unscrewing self-tapping screws (14) and lockwashers (15) If slide holder bracket must be removed while turret is attached to nose piece, rotate turret to vertical position. Spacer bracket (11) and nose piece (12) may be removed by withdrawing two screws (8). lockwashers (9), and washers (10) Slide carrier and film strip mechanism locking screw (13) may be withdrawn if required
- e Remove lamp assembly (24) when it has cooled enough to handle Lamp IS secured to lamp holder (47) by four spring clips (22) and may be removed by rotating springs withdrawing plug (23) If any spring is defective, it may be removed by withdrawing screw (18). lockwashers (19, 21). and nut (20).
- f Remove nut (25) and lockwasher (26) from each switch (27, 28) Six screws secure mounting plate (58) with most of electrical components mounted on it. Most electrical repair can be done by removing mounting plate Remove four screws (29), lockwashers (30). and spacers (31) Remove two screws (32). lockwashers

(33), and spacers (34) Remove two screws and lockwashers (35, 36) Lift mounting plate straight up until fan is clear of fan duct

CAUTION

Be careful not to bend fan blades when removing mounting plate

- g Switches (27, 28) will only be connected by thenwires Place tag on each wire indicating to which terminal and which switch it is to be connected
- h Tag and disconnect wires to motor and transformer, indicating on each wire to which terminal and which component it is to be connected Remove mounting plate (58) with fan and motor Installed
- i Remove screws (37) and lockwashers (38), and screws (39) and lockwashers (40) securing left and right lamp holder brackets (41, 42). Remove left and right lamp support brackets (45) by removing screws (43) and lockwashers (44) Shields (46) and lamp holder (47) are free
- j Remove four screws (48), lockwashers (49), and nuts (50) securing transformer (51) to mounting plate (58) When transformer Is removed, install hardware through transformer mounting holes in four corners of transformer to keep laminations from separating (If new transformer is subsequently required to replace the one which has been removed, it comes with its own hardware.)
- k. Remove set screw (52) securing fan blade (53) to motor (57) Remove four screws (54). lockwashers (55), and nuts (56) securing motor (57) to mounting plate (58)

- Remove this locking knot (30) from base (35) Turn have over and comove two screws (50) and is, a wacher (60) securing retainer (62). Remove retainer (62) and lever and shoe assembly (63). To remove from leg (73), remove size (64), spring (65), and spring guide and stud (66). Remove two screws (67) and lockwashers (68). Remove ... o screws (69) and lockwashers (70) to disassemble two humpers (71) and spring (72)
- Remove two serews (74) and spacers (75) Remove screws (76) and lockwashers (77) attaching plate and fan guard (78) to base (86) Remove plate and fan guard
- Disconnect remaining wire to two fuse holders (83) and pull out line cord (79). Remove strain relief bushing (80), nut (81) and fuseholders (83). Fuses (82) need only be removed if defective.
- o Remove base plate spacers (84) Studs (85) in base (86) need only be replaced if damaged
- p Disassemble housing assembly, if required, as follows
- (1) Remove two housing cover screw (Xi) and lockwashers (88) Remove housing cover (89)
- (2) Remove three screws (90) and lockwashers (91) Remove heat filter holder (92) and heat filter (93) Filter normally does not require removal If necessary, bend holder tabs to remove filter
- (3) On outside of housing (96), remove three screws (94) and remove three spacers (95) from inside of housing
- 3-9. Cleaning and Inspection of Projector

(fig 3-2)

- a Clean all parts (except ac motor) with cleaning compound to remove dust and dirt Dry with lint-free cloth
- b Inspect rubber bumpers (71) replace if rubber IS dry or cracked
- c Inspect all polished metal parts in housing Replace corroded parts
- d Inspect motor (57) If 2,000 hours have elapsed since last overhaul, lubricate bearings with 1 or 2 drops of Oil. Lubricating Preservative Special (PL Special) Inspect fan blade (53) and fan guard (78). and replace if dented or deformed
- e Inspect lamp assembly (24) for excessive blacken ing Replace if necessary
- f Inspect front leg spring (65). replace if free length is not $5^{\circ}/_{16} \pm \frac{1}{8}$ inches
- g Inspect all remaining parts for wear and damage Replace parts as required
- 3-10. Reassembly of Projector (fig. 3-2)
- a To reassemble the housing assembly, proceed as follows

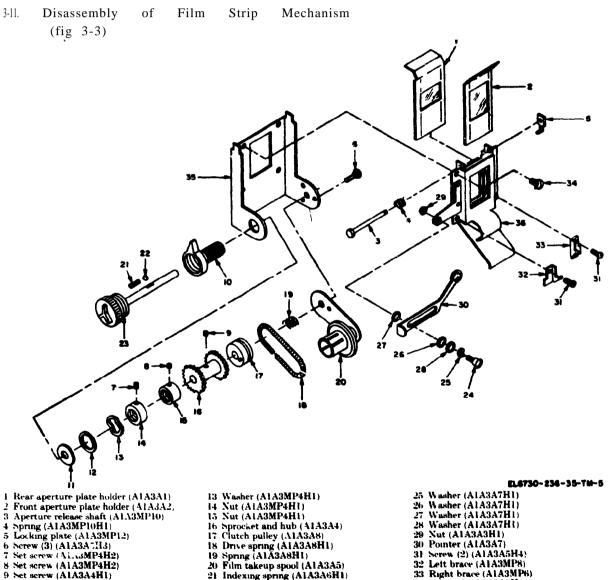
- (1) Install three spacers (95) with three screws (94) from outside of housing. Tighton screws so no light leaks through
- (2) Install heat filter (93) in holder (92) Bend tabs on holder to secure filter
- (3) Secure holder and filter to housing with three screws (90) and lockwashers (91)
- (4) Install housing cover (89), and secure with two screws (87) and lockwashers (88)
- L. If stud (85) was removed from base (86) for damage, press new one in place. Be careful not to damage or crack base.
- c Remove four screws (48), lockwashers (49), and nuts (50) from transformer (51) Install transformer on mounting plate (5%) and secure it with screws. lockwashers, and nuts Tighten screws until transformer is firmly in place and all laminations are tight When energized, excessive humming will indicate loose laminations
- d Install motor (57) on mounting plate (58) with four screws (54), lockwashers (55), and nuts (56) Tighten screws to hold motor firmly in place
- e Assemble lamp holder (47), left lamp holder bracket (41), right lamp holder bracket (42). left and right lamp shields (46), and left and right support brackets (45) Use two screws (37). and lockwasher (38) at top, and two screws (39) and luckwashers (40) at the bottom Mount lamp holder and shield assembly on mounting plate (58) using two screws (3.5) and lockwashers (36), and two screws (43) and lockwashers (44)
- f Insert LAMP switch (27) and FAN switch (28) through holes m mounting plate (58) and secure each with nut (25) and lockwasher (26)
- g Insert wires for plug (23) through bushing (80) Leave enough slack to permit easy installation of lamp assembly
- h Install mounting plate assembly on base (86) using four screws (29), lockwashers (30), spacers (31). and two screws (32), lockwashers (33). and spacers (34) Spacers (31, 34) are installed as standoffs between mounting plate assembly and base
- i Insert line cord into new strain relief bushing (80) Install in base (86) Install two fuse holders (83) and secure with nuts (HI)
- j Install fan blade (53) on motor shaft and secure with setscrew (52)
- k Turn base assembly over and connect wiring as tagged during disassembly Install two base plate spacers (84)
- l Assemble base assembly and plate and fan guard assembly (78) Make sure that fan blade revolves freely in fan duct Install two spacers (75) using screws (74) Install four screws (76) and lockwashers (77) Tighten screws to secure base assembly

- the principalities towner present (1-2) about mome present reference bracker (th) on have and were them with two withs (M. linkwashers (9)), and flat washers / 10);
- li enhe: dute holder bracket (16) has been re moved more terret (17), matall it using two screws (14) and lockwashers (15) Screw turret (17) on to nose piece (12) and mutall film cradle assembly (7) Secure it with two screws (5) and lockwashers (6) Install turret lock me screw (4) and slide carrier and film strip, mechanism locking seres (13)
- a Mount lamp assembly (24) on lamp helder (47) by placing lamp against lamp holder and rotating four spring chips (22) If these have been removed, remount each with one screw (18), nut (20), lockwasher (19), and

- lockwasher (21). Mate plug (23) with lamp assembly MARIA
- p. Assemble front leg. If two bumpers (71) and spacers (72) have been removed, secure each with screw (69) and lockwasher (70) Attach assembly to leg with two screws (67) and lockwashers (68). Insert spring (65) and spring guide stud (65) into leg and secure them with screw (64)
- q. Assemble front leg, lever and shoe assembly (63) and retainer (62). Secure parts to base with four screws (60), lockwashers (61), and tilt locking knob
- r Install housing assembly (2) and secure it with two housing release screws (1)

34 Screw (2) (A1A3A5H4) 35 Film strip shell (A1A3MP2)

36 Bracket subassembly (A1A3A3)



24 Screw (A1A3A7H1) 12 Washer (A1A3A6H1) Figure 3-3. Film strip mechanism exploded view

Set screw (A1A3A4H1) 10 Clutch bearing (A1A3MP4) 11 Washer (A1A3A6H1) 21 Indexing spring (A1A3A6H1) 22 Indexing ball (A1A3A6H1) 23 Knob and shaft assembly (A1

sembly (A1A3A6)

- 4 Depress apenture research shall (3) Remove rear apenture plate holider (3) and from apenture plate holider (4):
- h Unseres aperture release shaft (3) and remove shaft, spring (4) and looking plate (5)
- Remove drive spring (18) from film takeup spoot (20)
 - d Deleted
- Remove set screws (7, 8, 9) and unscrew clutch hearing (100)
- J Pull out knob and shaft assembly (23) Washers (11, 12, 13), nuts (14, 15), sprocket and hub (16), clutch pulley (17), drive spring (18), spring (19), and film take-up spool (20) are now loose and may be removed Remove indexing spring (21) and indexing ball (22) from knob and shaft (23) assembly
- **g Remove screw (24),** washers (25, 26, 27, 28), and nut (29) to release pointer (30)
- h Remove two screws (31) and left and right braces (32.33)
- i Remove two screws (34) and film strip shell (35) from cover plate and bracket subassembly (36)
- 3-12. Cleaning and inspection of Film (7, 8, 9) Strip Mechanism g Mo

(fig 3-3)

- a Clean glass of aperture plate holders (1, 2,) with lens cleaning tissue
- b Clean all metal parts with cleaning compound to remove dirt and dust, and dry with lint-free cloth

- Inspect drive spring (18). Free length must be 3½, inches. Replace if necessary
- d Inspect all parts to be sure they are not deformed or otherwise damaged. Replace defective parts.
- 3-13. Reassembly of Film Strip Mechanism

(fig 3-3)

- a Replace film strip shell (35) on bracket subassembly (36) with two screws (34).
- b. Mount left and right brace (32, 33) with one screw each (31)
- c Mount pointer (30) with nut (29). washers (25, 26, 27, 28), and screw (24)
- d Replace indexing ball (22) and indexing spring (21) in knob and shaft assembly (23) Insert knob and shaft assembly (23) and clutch Bearing (10) into right-hand hole of film strip shell, part way toward left-hand side
- e Slide spring (19), clutch pulley (17), sprocket and hub (16), nuts (14, 15), and washers (11, 12, 13) onto knob and shaft assembly (23)
- f Insert clutch bearing (10, and tighten set screws (7, 8, 9)
- g Mount film takeup spool (20) with three screws (6)
- h Mount drive spring (18) on film takeup spool (20)
- i Inspect aperture release shaft (3), spring (4), and locking plate (5)
- j Reinsert aperture plate holders (1, 2)

C H A P T E R 4 T E S T I N G P R O C E D U R E S

4-1. General

Physical

4-3.

- a Testing procedures are prepared for use by Signal Field Maintenance Shops and Signal Service Organizations responsible for general support maintenance of signal equipment, to determine the acceptability of repaired signal equipment. These procedures set forth specific requirements that repaired signal equipment must meet before being returned to the using organization.
- b. Perform each test in sequence. Do not vary the sequence. For each step, perform all actions in the

and

Inspection

Tests

Test equipment and Equipment under test columns; then perform each specific test procedure and verify it against its performance standard

4-2. Modification Work Orders

The performance standards listed in the charts (para 4-3, 4-4 and 4-5) assume that all applicable work orders have been performed A listing of current modification work orders will be found in DA Pam 310-7

No.	Test equipment ecutrol setting	Equipment under test control setting	Test procedure	Performance standard
ı	N V	Controls may be in any position	u Inspect noth switches for loose or missing nuts b Inspect plug for looseness and damage c Inspect exterior for damage, missing parts, and condition of finish tote Touchup paintin, is recommended in lieu of re finishing whenever practicable. Screw heads binding posts, receptacles and plated fastener parts will not be painted or polished with abrasives.	 Nuts must be tight none missing No looseness or damage evident No damage or missing parts eviden External surface intended to lipainted must not show bare metal
2	$\mathbf{X} \cdot \mathbf{A}$	N/A	Rotate turret 90 degrees	Turret should move freely and easily ar snap into place
3	N/ A	N/A	Inspect electrical wiring for broken, burned, or damaged wires and insulation	There should be no sign of damage of electrical wiring and insulation
4	N A	N/A	Inspect electrical connections for security	Electrical connections should be secure
5	N/A	N/A	Inspect cable for fraying, kinks, and other signs of damage	Cable should not be fraved, kinked, show other signs of damage
6	N/A	N/A	Inspect film advance knob and spools for freedom of movement	Film advance knob and spools should refreely
7	N/A	N/A	Inspect lens for damage	Lens is not damaged
8	N A	N/A	Operate tilt locking knob	Tilt locking knob secures unit in an desired tilt position

4-4. Operational Test

- a Teat Equipment and Materials
 - (1) Film strip or or slide
 - (2) Screen
- b Test Connections and Conditions Connect the projector to 115-volt, ac, 60-cycle, power source
- c Procedure

Step No	Test equipment control setting	Equipment under test control esting	Test procedure	Performance standard
1	N, A	FAN switch off	Set FAN switch to ON	Fan motor on and cool air exhausted from top rear of housing
2	N A	FAN switch ON	Set LAMP switch to ON	Lamp on
3	N, A	LAMP and FAN ON	Load film strip or slide Adjust lens for sharp image	Displayed image is good facsimile of film strip or slide
4	N/A	LAMP and FAN switches ON	Set FAN switch to OFF	Fan and lamp off

C2 TM 11-6730-236-35

4-5. Illumination Test

a Tast Equipment Foot Candle Phoelectric Meter ME Sti U

n Premedure

चेत्रक, चेत्रक	Bessel englishen ne ombever motorish	MacDistrict of E deglary states of E specific Canada	Test provedure	Perfuentance standard
ŧ.	N. A.	F VN and lamp switches ON Projector approximately 12.5 feet from screen positioned to fill area approximately 40 by	Check illuminated area	liluminated area free from masks, color rings or bands, d it marks, and foreign matter Dark line indicates cracked optical ele- ment spots and smudges indicate dut in optics
<u>+</u>	X X	28 mehes Same as step i	a Check intensity of diumination at center of screen b Check uniformity of illumination	## 125 foot condles ±5 percent ### Average of four corners of screen not less than 75 percent of center lowest corner reading not less than 65 percent of center
è	N A	Insert film strip using film strip mechanism	Project image onto screen and focus projector	Projected image is clear, sharp, and evenly illuminated
7	S (Insert slide, using slide carrier	Project image onto screen and focus pro-	Projected image is clear, sharp, and evenly illuminated

CHAPTER 5

DEPOT OVERHAUL STANDARDS

5-1. General

The depot overhaul standard tests given in this chapter are to be performed on repaired or overhauled equipment to insure that they meet required performance standards before restock or reissue.

5-2. Test Procedures

- a. Operation Within Supply Line Voltage and Frequency Variation Limits.
 - (1) Equipment required.
 - ia, Variac with accurate meter.
 - (b) Variable frequency power supply.
 - (2) Procedure.

Fan motor and lamp must operate satisfactorily at —

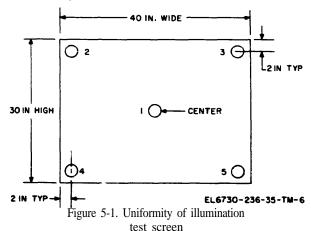
129 volts, 65 Hz.

118 volts, 60 Hz.

105 volts, 50 Hz.

- (a), Calibrate variac at each of the three voltage
- settings progressively and check both motor and lamp.

 (b), Put FAN switch ON first at each of the
- three voltage levels. Then put LAMP switch ON and hold for at least 5 seconds.
- (c) Put LAMP switch off first, then FAN switch
- (3) Limits. Lamp and motor must operate at all three voltage and frequency levels
 - b. uniformity of Screen Illumination.
 - (1) Equipment required.
 - (a) Screen (fig. 5-1).
- (b) Light Meter, calibrated in foot-candles (using a double photocell, one cell blocked off).
- (c) Variac or voltage controlled line to run test at 118 volts, 60 Hz.



(2) Procedure.

(a) Set up projector equipped with filmstrip mechanism, without film.

- (b) Adjust (focus) lens for sharpest image outline at edges of aperture on screen.
- (c) Adjust lamp for minimum difference of light meter reading between 2 and 3: 4 and 5 and 1.
- (d) The difference in foot-candle readings between 2 and 4 and 3 and 5 must also be minimal.
 - (e) Record readings.
 - (3) Limits.
 - (a) Average of 4 corners, 75% of center.
 - (b) Lowest corner not less than 65% of center. c. Light Output.
 - (1) Equipment required.
 - (a) Screen (fig. 5-2).

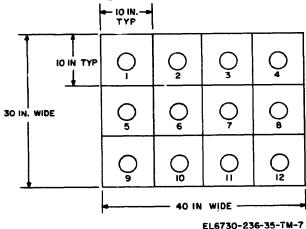


Figure 5-2. Light output test screen

- (b) Variac or regulated line voltage for 118 volts.
 - (c) Light meter calibrated in foot-candles.
 - (2) Procedure.
- (a) Set up projector equipped with filmstrip mechanism without film.
- (b) Turn projector on and move entire projector to fill screen.
- (c) Focus lens for sharpest image outline at edge of screen.
 - (d) Record 12 readings.
 - (e) Calculate average of 12 readings.
 - (f) Multiply average by 8.33.
- (3) Calculations Average of 12 readings (footcandles) $x \ 8.33 = lumens$.
- (4) Limits. Light output must not be less than 650 lumens.

d. Renoluna Power.

(1) Equipment required.

mounted in 2 x 2 slide Test film per ASA PH.3.16 (1947).

(b) Slide carrier.

(2) Procedure (fig. 5-3).

(a) Set projector at required distance from screen to enlarge the single frame (17.5 x 23mm) mage to 40 inches wide.

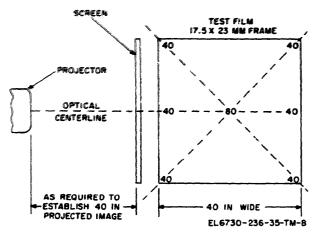


Figure 5-3. Resolving power test setup

- (b) Level projector to hold optical centerline horizontal.
- (c) Adjust projector so that focus of image is equal at right and left side and top and bottom.
 - (d) Focus lens to the center target.
- (3) Calculation. The resolving power of the lens at any point on the screen is the largest number of lines per millimeter in the test object that an observer, close to the screen, can easily count in both radial and tangential directions in the projected image on the screen.

(4) Limits. Resolving power at center of picture area should not be less than 80 lines per millimeter. Minimum resolving power elsewhere should not be less than 40 lines per millimeter.

NOTE

Do not move projector until next test is completed, as same distance from screen is required.

- e. Dielectric Strength and Insulation Resistance.
- (1) Equipment required. **Model** P2 Voltage Breakdown Tester, Industrial Instruments, Inc.
 - (2) Procedure (fig. 5-4).
- (a) Connect one side of Hi-Pot Tester across both terminals on plug of line cord from projector.

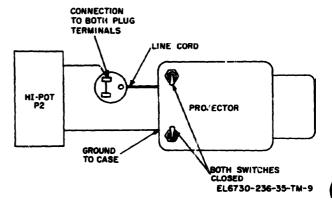


Figure 5-4. Dielectric strength and insulation resistance test setup

- (b) Connect other side of Hi-Pot Tester to projector case (same as ground).
 - (c) Close both motor and lamp switches.
- (d) Slowly increase voltage to 900 volts ac and hold for 1 minute
- (e) Slowly decrease voltage to zero, disconnect Hi-Pot Tester and open switches.
- (3) Limits. There should be no breakdown or indication of arc during test.

W C WESTMORELAND. General United States Army

Chief of Staff

A P P E N D I X A R E F E R E N C E S

E)) V. Phana 3166 4	Index of Technical Manuals, Technical Bulletins, Supply Manuals (types 7, 8, and 9),
	Supply Bulletins, and Lubrication Orders
Do A. Planer Shor 7	US Army Equipment Index of Modification Work Orders
TM 11 6625-366-15	Organizational Do, GS, and Depot Maintenance Manual Multimeter TS-352B, U.
TW 11 6730 236 12	Operator and Organizational Maintenance Manual, Projector, Still Picture AP-42A.
TM 11-6730-236-20P	Organizational Repair Parts and Special Tools Lists for Projector, Still Picture AP-42A.
TM 38 750	The Army Maintenance Management System (TAMMS)
TM 750 5-3	Photographic Equipment Data Sheets
TM 7.00 .b- 3	Photographic Equipment Data Success

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ARNG None

USAR None

For explanation of abbreviations used, see AR 310-50

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APPENDIX B

DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

t ode

B-1. Scope

This appendix lists repair parts required for the performance of direct support, general support, and depot maintenance of the AP-42A. This appendix is current as of 5 March 1973.

B-2. General

This repair parts list is divided into the following sections.

- a Repair Parts List—Section II A list of repair parts authorized at the direct support, general support, and depot levels for the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are in figure and item number sequence.
 - b Special Tools List-Section III Not applicable
- c Federal Stock Number and Reference Number Index—Section IV A list, in ascending numerical sequence, of all Federal stock numbers appearing in the listings, followed by a list, in alphanumeric sequence, of all reference numbers appearing in the listings Federal stock numbers and reference 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 Source, Maintenance, and Recoverability Codes (SMR)
- (1) Source code This code indicates the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are

Code	Explanatio i
P.7	bene processed and stocked for inficinated or kno-n
	11 med bill t
PB	Item produced and stocked for in our one populations to
	eastern ernnerffeig. E. efter eter elftere einternermieren gegretes
	ton a contratore in their marginal - mempay
1,4	for the defendance of a confidence of the determinant of the confidence of a confidence of the confide
	the construct to be accompanies that is no observations of the state of
PD	To present the first the properties appeared to a apprendict there are no
	tere con final market are constituted and affect and make as they be also
	appellere say cer emply program at adder commander to mental an term. John
	nebularaco del arglareariates confede an confedencia
10%	motifiables, g and inspitationing tabout clienty begind note from a billion in
	muha sa conflattabhla ian bennifta à topoktopic unter en a timbs de
	6 topen
}* -	mantiffmet be antifteger alle for to bie net me n gabe
	- PRESENTE P. B. GAPETTERRET - [ARTE - LEGE - L. B. FRIFARANDE

- PG Items procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which because of probable discontinuance or shutdown of production facilities would prove uneconomical to reporduce at a later time.
- KD Item of depot overhaul/repair kit and not purchased separately. Depot kit is defined as a kit that provides items required at the time of overhaul or repair.
- KF An item of a maintenance kit and not purchased separately. Maintenance kit is defined as a kit that proyides an item that can be replaced at orga —zational direct support or general support levels of maintenance.
- KB Item included in both a depot overhauf repair kit and a maintenance kit
- MO Item to be manufactured or fabricated at the organizational level
- MF Item to be manufactured or fabricated at the direct support maintenance level
- MH Item to be manufactured or fabricated at the general support mainten ince level
- WD Item to be manufactured or fabricated at the depot maintenance level
- 16) Item to be assembled at the organizational level
- 45 Item to be assumbled at the direct support maintenance level.
- All tem to be assembled at the general support manner have
- All from techn assumbled at the depot incontentance be et
- A. From is not previously or stocked because the respective ments for the item will result in the replacement of the next higher assembly.
- XB from is not progressed or stocked. It it is not a actuals through salvage requisition it.
- Ye Installation drawing diagram instruction cleek of field server drawing that is identified to a man a factorer's part number.
- N) Support turns listed in this RPSTE TW is agreed together and recoverability codes and no source consequently than other turn.

NOTE

- Camphalization or salt age that he need a content of supply for an ideal sense souther south of the first senses appearation is a translate to the object of the senses.
- (2) Maintenance and Maintenance cuties are assumed to indicate the levels of maintenance within made to use and repair support items. The maintenance nance ends, an entered in the third and fourth positions of the instance safety MRR and format as follows:
 - less bout the continues from their Plan terms town defeate make

entered in the third position indicates the lowest maintenance level authorized to remove, replace. and use the support item. The maintenance code entered in the third position indicates one of the following levels of maintenance

Code	Application/Explanation
0	Support item is removed replaced and used at the organizational level of maintenance NOTE
	A code C ma\ be used in this position to de- note crew or operator maintenance perform- ed within organizational maintenance
F	Support item is removed replaced and used at the direct support maintenance level
Н	Support item is removed replaced and used at the general support maintenance
D	Support items that are removed, replaced and used at depot only

(b) Repair (fourth position) 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) When a maintenance code is not used, a dash (-) sign is entered. For multiservice equipment/systems, or when a code is entered, this position will contain one of the following maintenance codes as assigned by the service(s) that require the code.

Annies tos / Francisco

Code	Application/Explanation
0	The lowest maintenance level capable of complete re- pair of the support item is the organizational level
F	The lowest maintenance level capable of complete repair of the support item; direct support
Н	The lowest maintenance level capable of complete repair of the support item is general support
D	The lowest maintenance level capable of complete repair of the support item is the depot level
L	Repair restricted to a designated specialized repair activity
Z	Vonrepairable no repair is authorized
В	No repair is authorized. The item may be recondi- tioned by adjusting, lubricating etc. at the user level. No parts or special tools are procured for the maintenance of this item.

(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:

t'ingla	Republic :
Ž	Nonretharshie stom When unserviceable condense it and dispuse of it at the terminal indicated in the first digit of the maintenager code.
()	Mortganishiko (term Wilson universionentervall (repainfishiko considerany (1.588) ingresse (if it it (regisjoi/attorny) (1880)
je:	Marpharitabeta charia: W Maria casacconsassassassas inapacatingalas casakabonisis Eugipel (bingarous of chiat Mis-Charich expensas). Nan-coi

Code	Explanation
Н	Repairable item When uneconomically repairable condemn it and dispose of it at the general support level
D	Repairable item When beyond lower level repair capability return it to depot Condemnation and disposal are not authorized below depot level
L	Repairable item Repair condemnation, and dispo- sal are not authorized below/specialized repair activ- ity level
A	Item requires special handling of condemnation procedures because of specific reason (ie, precious metal content, high-dollar value, critical material

b. Federal Stock Number. This column indicates the Federal stock number assigned to the item which will be used for requisitioning purposes.

or hazardous material)

- c. Description. This column indicates the Federal item name and a minimum description required to identify the item. The last line indicates the reference number Mowed by the applicable Federal supply code for manufacturer (FSCM) in parentheses. The FSCM is used as an element in item identification to designate the manufacturer, distributor, or Government agency, etc., and is identified in SB 708-42.
- d. Unit of Measure (U/M). This column indicates the standard or basic quantity by which the listed item is 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.
- e. Quantity Incorporated in Unit This column indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for an assembly
- f. 30-Day DS/GS Maintenance Allowances. The repair parts indicated by asterisk entries in separate allowance columns for DS and GS represent those authorized for use at that "tegory of maintenance to be requisitioned on an as-required basis.
- g. 1-Year Allowances Per 100 Equipments/Contingency Plunning Purposes. This column is intentionally left blank
- h Deput Maintenance Allowance Per 18th Equipments. This column indicates that the stress identified with an asterial are authorized to be equipment tioned as required.
- i. Ulustration. This column is divided as billows
- (1) Figure number. This column indicates the figure number of the illustration on which the item is shown.
- (2) There notation. This cultums indicates the risrumber used to reference the rises on the illustration.

B-4. Special Information Not applicable

B-5. Location of Repair Parts

- a. This appendix contains one cross reference index (section IV) to be used to locate a repair part when either the Federal stock number or reference number (manufacturer's part number) is known The first column in the index is prepared in numerical or alphanumeric sequence in ascending order The reference numbers (manufacturer's part numbers) are listed immediately following the last listed Federal stock number in the index of Federal stock numbers.
- b When the Federal stock number or reference number is known, follow the procedures given in (1) and (2) below

- (1) Refer to the index of Federal stock numbers (section IV). and locate the Federal stock number or reference number. The FSN and reference number are cross-referenced to the applicable figure and item number.
- (2) Refer to the repair parts list (section II) and locate the figure number (column (10)(a)) and item number (column (10)(b)) as noted in the FSN index.
- c When the figure and item number are known. scrutinize columns (10)(a)) and (10)(b)) of the repair parts list (section II) until the item is located.
- d. When the FSN. reference number, figure number, and item number are not known, scrutinize column (3) of the repair parts list (section II).

B-6. Abbreviations Not applicable.

(1) 34R 300E	(2) FEDERAL STOCK	(3) DESCRIPTION		(4) UNIT OF	(5) QTY	30-0	(6) AY 05 I	ALINT	30-0/	(7) Y GS H	YHIA	(8) I YR	(9) DEPOT MAINT	(a)	(10) ILLUSTRATIONS (b)
	NUMBER		USABLE ON	MEAS	UNIT	(a) 1-20	(b)	(c)	30-DAY GS MAINT ALLOMANCE (a) (b) (c) 1-20 21-50 51-10		(c)	EQUIP	ALW PER 100 FOULP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
	6730-450-67423	PROJECTOR, STILL PICTURE	CODE	 		1-20	21-50	51-100	1-20	21-50	31-100		24411	B-1	PESIGNATION
	0750 150 07125	AP-42A (THIS ITEM IS NONEXPENDABLE)			, ,									B-5	
AOFD		PROJECTOR ASSEMBLY G3130-01 (82394)		EA	1										
DFZZ		SCREW, LOCKING 20-0833 02 (82394)		EA	2									B-3	1
DF2Z		HOUSING ASSEMBLY 90-0843-00 (82394)		EA	1									B-3	5
AOZZ	6730-167-1133	LENS, PROJECTION 30-0002-05 (82394)		EA	1	•	*	٠	•	٠	٠		•	B-3	3
DF22		SCREW, LOCKING, TURRET 20-0785-02 (82394)		EA	1									B-3	4
AFZZ	5305-054-6655	SCREW, MACHINE MS51957-31 (96906)		EA	5	•	•	*	•	•	*		•	B-3	5
afzz	5310-209-088	WASHER, LOCK MS35335 30 (96906)		EA	2		•	•	٠	•	٠			B-3	6
DFZZ		CRADLE ASSEMBLY, FILM 90-0422-00 (82394)		EA	ì									B –3	7
DFZZ		SCREW, MACHINE MS35216-40 (96906)		ĒΑ	2					and the second				B- 3	8
DF2Z		Washer, Lock MS35335~59 (96906)		EA	5									B- 3	9
DFZZ		Washer, Flat Ms15795-308 (96906)		EA	2							draw area		B- 3	10
DF2Z		SHIM, NOSE PIECE 20-0764-00 (62394)		EA	ı									8-3	r:
DPZĽ		NOSE PTECE 10-0039-03 (82394)		EA	1		- Anna Caracteria				es antico			₽~3	13
DFZZ		LCREW, LOCKING, TURRET 20-076;-02 (82394)		EA	1	and the second								B-3	13
AFZZ	5305-282-6733	SCREW, MACHINE ANSISC3-3 (88044)		BA.	4	•	•	•	•	•	•		•	B- 3	£4.
AFZZ	5310-616-3554	WADHER, LOCK MC 35 35 -24 (96y06)		EA	4	•	•	•		*	•		·	B= }	15
(DFZZ		BRACKET, SLIDE HOLLER 20-0786-02 (M2394)		BA	1		- Car				i de la constante de la consta		A STATE OF THE STA	B= }	tó
(DFZ2		TURRET 10-0036-05 (82494)		BA .	1				Constitution of the Consti			on a distance		ibr)	r.u
PAF2Z	6240+	~ 60km, lam? 40k~∂ (08605)		BA.	Ballacilla Benegacia	•	· *	•	•	•				B- 1	47
MCZZ	6240-194-4525	LAMP, DICANDESCRIPT, PROJECTION 51-1012-00 (F2394)		B6	1			•			•	STATE OF THE PARTY	•	Bee ?	24.
OFZZ		東下 、HB U570 (7 3559)		BA.	2	00 T. Sept. St. 10	-7-822825°FF							B-t	a ^h)
XDF32		##CHEER, LOEK #EF7 65 (46906)		154	4	Mark of the control o		SARL COLD A	4		100			B+ 7	20.
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(38	FEDERAL STOCK	(3) Sescription		(4) UNIT	(5)		(6)			(7)		(8)	(9)	11 1 1187DAT 1 0MC		
-	NUMBER			OF HEAS	OTY IIIC III	30-	ALLOWS	MA INT	30-	DAY 65 ALLOW	ice	ALW PER EQUIP CHIECY	DEPOT	(0)	ILLUSTRATIONS (b)	
_	_	REFERENCE MANGER & NFR. CODE	USABLE ON CODE	Ĺ		(a) 1-20	2(0)	(c) 51-100	(a) 1-20	2(5)	(c) 51-10	CHIECY	100 EQUIP	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION	
XDFZ	*	WASHER, LOCK ME35335-60 (96906)		RA.	2									B-3	30 DESIGNATION	
IDEZ	z	SPACER, MOUNTING 67-6093-00 (82394)		BA	2			1						B- 3	31.	
XDFZ	z	SCREW, MACRITUR MB35216-29 (96906)		EA.	4									B-3	32	
XDF2:	z	Washer, Lock N635335-58 (96906)		BA	4		ĺ							B-3	33	
XDF2:	2	SPACER, MOUNTING 67-6091-00 (82394)		BA	4									B- 3	34	
PAFZ	5305-054-665	² SCREN, MACHINE MS51957-28 (96906)		ZA.	5	*	•	•	*				٠	B-3	35	
PAF22		⁵ WASHER, LOCK MS35335-58 (96906)		BA	5	*	*	•	٠	•	•			B-3	36	
XIF 22		SCREW, MACHINE M335216-24 (96906)		BA	5									B-3	37	
XIII ZZ	!	WASHER, LOCK MS35335-58 (96906)		BA	5									B- 3	38	
PAFZ.		4S51957-28 (96906)		BA	5	٠	•	٠	٠	•	•		•	B-3	39	
DFZ2	5310-209-1366	MS35335-58 (96906)		BA	5	•	•	•	٠	٠	٠		•	B-3	40	
D9722		EFACKET, LAMF BOLDER, LH 20-1690-02 (82394)		BA	1									B- 3	41	
AFZZ	5305-054-6652	20-1689-02 (82394)		BA	1									B-3	42	
AFZZ	5310-209-1366	SCREN, MACHINE ME51957-28 (96906)		BA	2	•	•	•	•	•	٠		•	3- 3	4.3	
D PZ Z.	1	MASHER, LOCK ME35335-58 (96906) BRACKET, LAMP, SUPPORT		BA	2	•	•	•	•	•	•		*	3-3	i _t j.	
DF22		20-1685-02 (82394)		RA.	2	agent a ballioning					Billion Cont.			}− 3	4/5	
DF22		20-1696-02 (82394)	1	BA	5	Talkan gapting and the second	200 P. O. O.	1000		allowa Const			1	1-3	46	
JP22	5305-059-3666	20-1682-02 (82394)		in	-4	- Annual Control of the Control of t		S	-	20,000				b 3	47	
JF22	5310-209-1239	M851958-70 (96906) MARIER, LOCK		is.	4	•		• Spane	•			Allow A Market	•	e) [ings	
PZ2	5310-934-965	1035335-60 (96906) 1007, PLAIN, HERAGON			4		*			•		li-vi book	• 1	P 1	lato	
P22	5950-	M835650-304 (96966)			1	•		•	*	•	•	A CONTRACTOR		m 1	€ _{k+1}	
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(1) SMR CODE	(2)			THIA	30-04	(7) Y GS M		(8) I YR	(a) DEPOT		ILLUSTRATIONS				
CODE	STOCK NUMBER	USABLE	ON ME	AS I	OTY UNIT		ALL CHARGE	(c) 51-1 00	AL.	(b) 21-50	(c)	EQUIP CHTGCY	MAINT ALW PER IQO EQUIP	FIG NO.	(b) ITEM MO. OR REFERENCE DESIGNATION
XDF22		REFERENCE NUMBER & NFR. CODE CODE SCREW, LOCKING, THINGS	E		1	1-20	Z1-9U	31-100	1520					в-3	59
XIIFZ2		20-0258-02 (82394) SCREW, MACHINE	E		ħ									в-3	60
XDFZZ		AN515C5-6 (88044) WASHER, LOCK NS35335-30 (96906)	E	x	Į,									B-3	er
XDFZZ		RETAINER 20-0835-U2 (82394)	E	EA	1									B-3	62
XDFZZ		LEVER AND SHOE ASSEMBLY 90-0796-00 (82394)	E	ea	1									B-3	63
XDF2Z		SCREW, MACHINE ANSISCS-3 (88044)	18	EA	ı									B-3	64
XDFZZ		SPRING, LBC 67-1029-00 (82394)		EA	1									B-3	65
XDFZ2		STUD, SFRING GUIDE 20-0832-02 (82394)		BA	1									B-3	66
UFZZ		SCHEN, MACHINE NG35216-27 (96906)	1	EA	5									B-3	67
XDFZZ		Washer, Lock MS35335-58 (96906)	1	BA	5									3- 3	68
PAOZZ PAOZZ	5305-054-6654	SCREW, MACHINE MS51957-30 (96906)		ea	5	•	•	•	•		•		•	B-3	69
XD022	5310-209-1366	WASHER, LOCK MS 35335-58 (96906)	l	ea.	2	•	•	•	•	•	•		•	B-3	70
XDF22		BENEFER, ELEVATION, LEC 67-3402-00 (82394)		EA	5									₽~3	72
XDFZ2		SPACER, ELEVATOR LEC 20-1739-02 (82394)		ea •	2	فعداده			Type of managements	in the second				9-3	73
PA022	5305-054-6659	LEG, ELEVATOR 10-0040-05 (82394,		ea ea	2	•	*********							B-3	7/4
XDOZZ		MSS1957-35 (96y06)			2	A COLUMN COLUMN	-		National Property Co.					g-;	75
XDF22		67-3420-00 (8 /344) **CREM, MACHINE		84										3 00 3	76
XDPZ2		ME - 216-24 (96906)		Sa.	} } *								-	3 = 3	Pt
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(IO) LLUSTRATIONS (b)	T-	(a)	(9) DEPOT MAINT	(8) I YR ALW PER	(AINT	(7) Ay GS A LLOMAND	30-0	(6) 30-day ds maint Allowance			(5) OTY INC IN UNIT	UNIT OF MEAS	(3) Description	DESCRIP	FEDERAL STOCK NUMBER	SHR CODE
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	89	B-3									1	EA	94)	COVER 10-0038-04 (92394)		AF2Z
90	90	В-3			٠	*	*	•	*		3	EA	06)	SCREW, MACHINE MS51957-15 (96906)	5305-054-5649	AFZZ
11	91	B-3			•	•		*	*	*	3	EA	06)	MASHER, LOCK MS35335-29 (96906)	5310-616-3554	AFZ2
12	98	B-3			*	٠	*	•	*	*	1	EA		HEAT GLASS ASSEMBL (90-0865-00 (82394)	6730-117-0816	AFZZ.
·3	93	B=3									1	EA	ER 94)	GIASS HEAT FILTER 30-3008-00 (82394)		AFZZ
·ka	94	B~3									3	RA.	4)	SCREW, MACHINE AN505C4-6 (88044)		DFZZ
5	95	B-3									3	EA	94)	SPACER, HOUSING 20-1666-02 (82394)		DFZ.Z
6	· · 6	B-3									1	EA	94)	HOUSING 10-0037-05 (82394)		AF2Z
		B-4	•		٠	*	•	+	•	*	1	EA	ANISM ASSEMBLY	FILM STRIP MECHANISM AS A555 (82394)	6730-402-2229	AOFF
		a	4		*	٠	*	•	•	*	1	EA	E PLATE ASSEMBLY	HOLDER AFERATURE PLATE 90-0326 (82394)	6730-100-4283	A022
	-		٠		*	٠	•	•	•	*	1	EA	E PLATE ASSEMBLY	HOLDER APERATURE PLATE 90-0325 (82394)	6730-117-0803	AOZZ
	_	B1							District Co.		1	EA	RE	SHAFT, APTERATURE 20-0351 (82394)		AFZZ.
		B-								-	1	EA	94)	SPRING 67-1412-02 (82394)		AF22
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Γ	(t) SHR :00E	(2) FEDERAL	(3) DESCRIPTION		(4) UNIT OF	(5) 01Y	(6) 30-DAY DS MAINT ALLOMANCE (a) (b) (c) 1-20 21-50 51-100		30-DA	(7) Y GS M	AINT	(8) 1 YR	(9) DEPOT	(a)	(10) ILLUSTRATIONS (b)	
'	300E	STOCK HUMBER	REFERENCE NUMBER & MFR. CODE	LISABLE ON CODE	MEAS	INC IN Unit	(a) 1-20	(b) 21-50	(c) 51-1 00	(a) i-20	(b) 21-50	(c) 51-100	EQUIP CNTGCY	ALW PER 100 E QU I	FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
X/	LPELE		CPOOL AND MOUNTING PLATE AS LEMPLY 40-079/-00 (80394)		EA	1									B-4	20
M	ufzz.		CFRING, INLEA KNOB 67-1002-02 (823-4)		FA		'								B=4	51
x	AFZZ.		HALL, INVEX KNOB LC-0_08-00 (82394)		EΛ	-									B-4	22
x	4F22		KNOB AND CHAFT ASSEMBLY		EA	1									B-4	23
\	JFZZ		STUD, FURNTER 20-07:4-02 (8_54)		EA	1									B-1	24
x	DP		walte, PRING 7 (70101)		EA	-									P=1	25
×	OFIL		WA HER, FLAT ML - AL - CK (40006)		EA	Ţ									b-4	26
х	PFZ.		200-00 -00 (6.304)		Ln	+									B-4	ध्य
k	DFZZ.		MASHED, FLAT OD-MOUNT-OC (E2394)		Eá	-	İ								B-4	26
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SECTION IV. FEDERAL STOCK NUMBER AND REFERENCE NUMBER INDEX

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\$305-054-6652	5305-054-6652	B-3	35	AN51503-3	88044	B-3	14
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MS35338-58	96906	B-3	77	20-0352-02	82394	B-4	5
MS35649-64	96906	B-3	56	20-0650-02	82394	B-4	15
MS35650-304	96906	B-3	50	20-0722-03	82394	B-4	33
MS51957-15	96906	B-3	9¢	20-0722-04	82394	B-4	32
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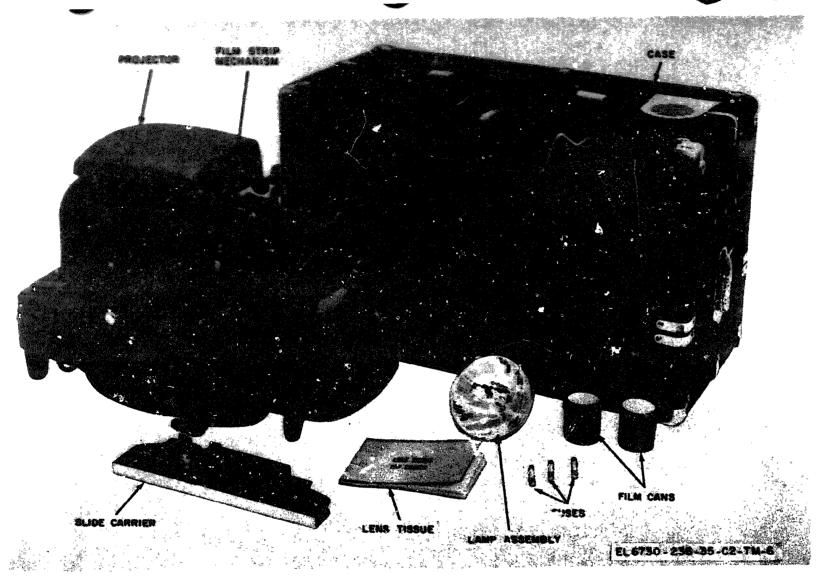


Figure B-1. Projector Still Picture AP-42A

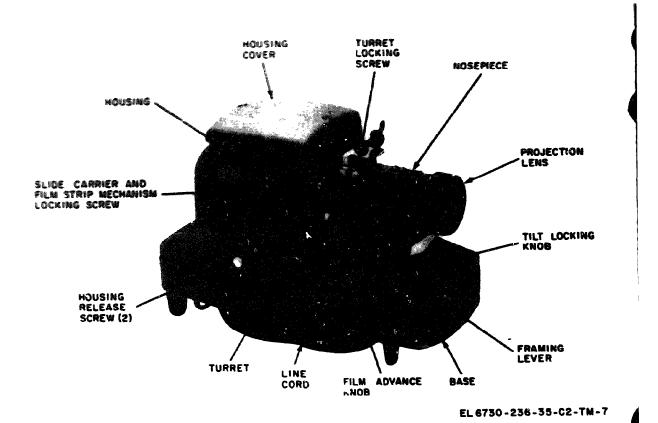


Figure B-2. Projector assembly

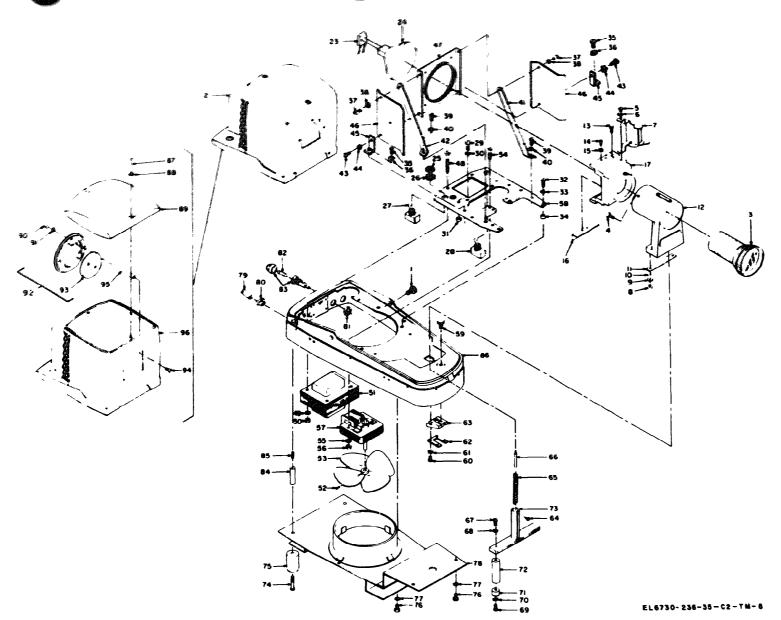


Figure B-3. Projector assembly-exploded view

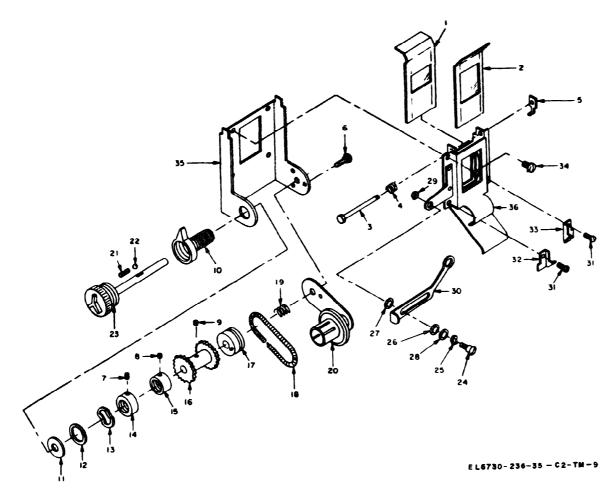


Figure B-4. Film strip wechanism assembly - exploded en a

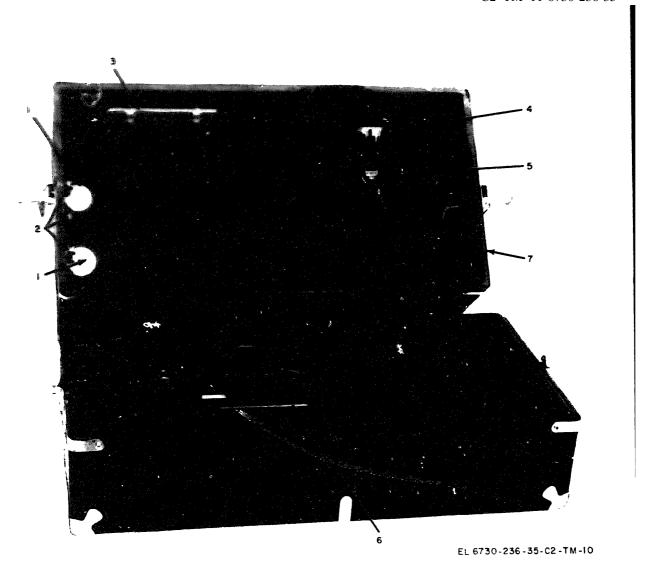


Figure B-5.* Case wheatequant a equanion.

the Order of the Secretary of the Army

W. C. WESTMORELAND, General, United States Army, Chief of Staff.

Official.

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

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"SASA (2)
                                  Army Dep (1) except
 (NGB+I)
                                   LBAD (14)
 40'SC-E (2)
                                   SAAD (30)
 Dor of Trans (1)
                                   TOAD (14)
CofEngrall
                                    LEAD (7)
 CofSptS(1)
                                    NAAD (3)
TSG(1)
                                    SVAD (3)
 USAMB (10)
                                    ATAD (10)
 USAARENBD (2)
                                  Gen Dep (1)
 USACDC (1)
                                  Sig Sec. Gen Dep (4)
 USACDCCEA(1)
                                  Sig Dep (6)
 L'SACDC CEA (Ft Huachuca) (1)
                                  USAPA (5)
 USACDCINTA (1)
                                  USACRREL (2)
  CONARC (2)
                                  USAERDAA (2)
  USACDCEC (10)
                                  USAERDAW (2)
  USA.MC(1)
                                  AV Comm Cen (1)
  USAMICOM (2)
                                  USA Crim Inves Lab (3)
  USAECOM (2)
                                  Sig FLDMS (1)
                                  Units org under fol TOE (2 ea)
  USAESC (70)
  USASTRATCOM (2)
                                    11-35
  USATECOM (2)
                                    11-39
  ARADCOM (2)
                                    11-56
  ARADCOM Rgn (1)
                                    11-95
  LOGCOMD (2)
                                    11-96
  OS Maj Comd (4)
                                    11-127
  USARJ (5)
                                    11-147
  USARYIS (5)
                                    11-158
  Armies (1)
                                    11-215
  Corps (1)
                                    11-216
  ATS (1)
                                    11-226
  Ft Hauchuca (5)
                                    11-237
  Ft Carson (7)
                                    11-500 (AA-AC, FJ, FK, FL, RK)
  WSMR (2)
                                    29-134
  Svc Colleges (1)
  USASCS (10)
  USASESS (5)
   USAINTS (5)
  Ft Holabird (5)
ARNG None
USAR None
```

For explanation of abbreviations used, see AR 310-50

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TM 11-6625-2707-34

By Order of the Secretary of the Army:

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Distribution

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For explanation of abbreviations quark, see AR 110-40

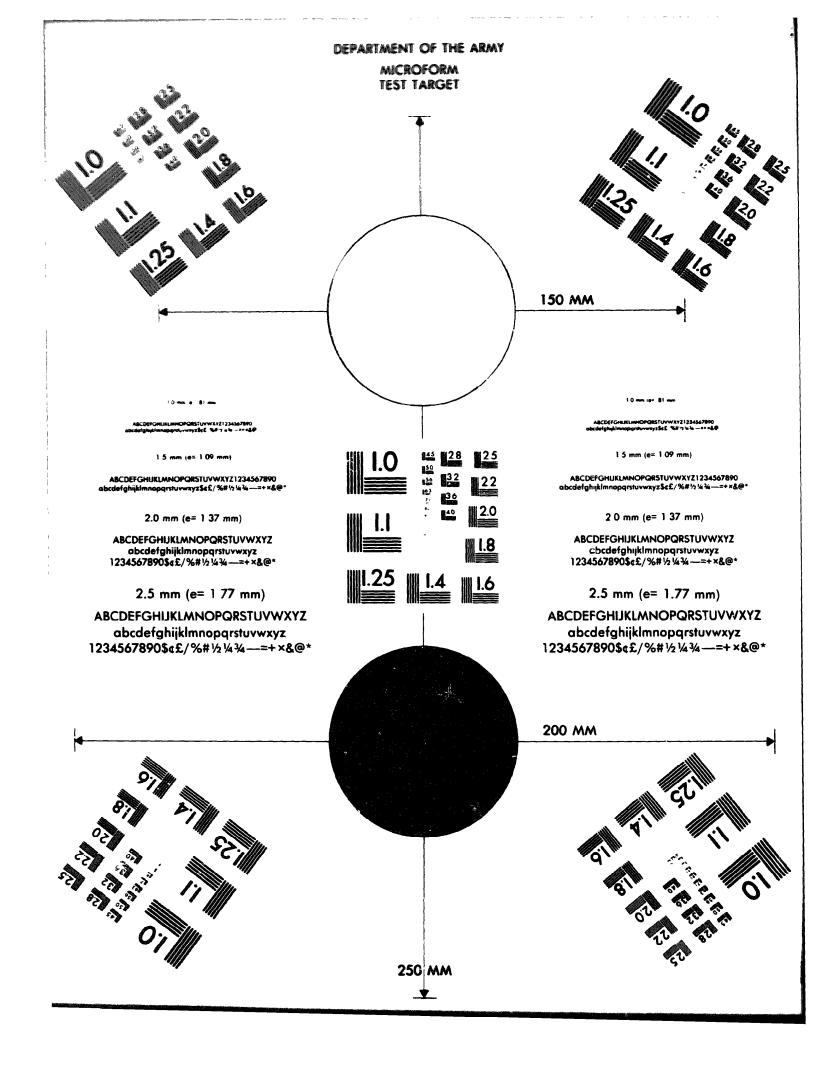
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Active Army
                                                            USA Dep(1)
   USASA(2)
                                                            Sig Sec USA Dep (4)
   CNGB(1)
                                                            Sig Dep (4)
   ACSC-E(2)
                                                            ATS(1)
   Dir of Trans (1)
                                                            Fort Huachuca (5)
   COE(I)
                                                            WSMR(1)
   TSG (1)
   USAMB(10)
                                                            Fort Carson (7)
                                                            USAERDAA(1)
   USAARENBD(1)
   USACDC(1)
                                                            USAERDAW (1)
   CONARC (2)
                                                            Fort Holabird (5)
                                                            AV Comm Cen (1)
   AMC(1)
   MICOM (2)
                                                            USA Crim Inves Lab (2)
   ARADCOM (2)
                                                            Units orgunder fol TOE
   ARADCOM Rgm (1)
                                                              (2 copies each)
                                                                11-35
   OS Mai Comd (4)
   USACDCEC (10)
                                                                11-39
   USASTRATCOM(2)
                                                                11-36
   TECOM (2)
                                                                11 %
   HISA (ECOM)(18)
                                                                11-46
   LOGCOMD(2)
                                                                1 t-127
   Armies (1)
                                                                1 t t 4?
   Corps(1)
                                                                11-158
   Svc Colleges (1)
                                                                11-315,
   USASESSON
                                                                11 216.
   USAINTS (3)
                                                                11-226.
   Sig FLDMS (1)
                                                                1.1-297.
                                                                EL-SON (AA-AC EL-FE RK)
   Arm Depots (1) except.
       LBAD (14)
                                                                44-134
       SAAD (30)
       TOAD (14)
       LEAD (7)
       ATAD (10)
NG None
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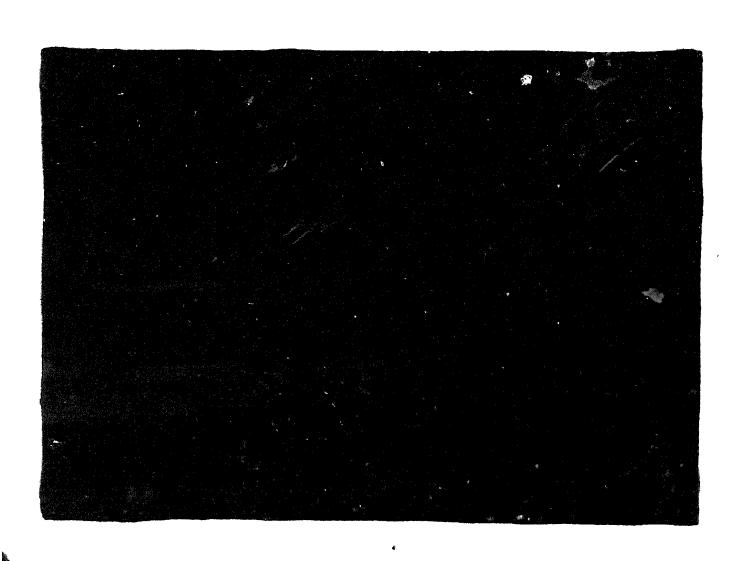


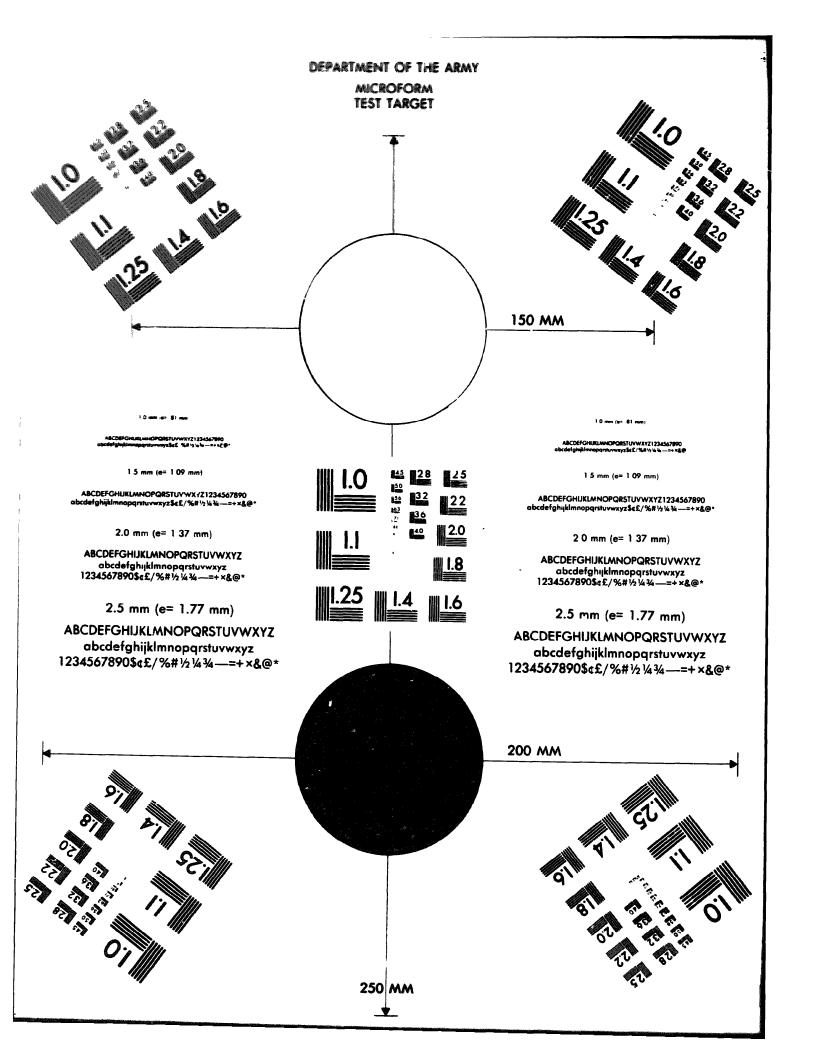


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