

TECHNICAL MANUAL

**ORGANIZATIONAL AND DS MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOL LISTS**

METASCOPE AN/PAS-6

[5855-790-6197]

HEADQUARTERS, DEPARTMENT OF THE ARMY

17 MAY 1973

TECHNICAL MANUAL }
 No. 11-5855-239-23 }

HEADQUARTERS
 DEPARTMENT OF THE ARMY
 WASHINGTON, D. C., 17 May 1973

Organizational and Direct Support Maintenance Manual
Including Repair Parts and Special Tool Lists
METASCOPE AN/PAS-6 (5855-790-6197)

	Paragraph	Page
CHAPTER 1. INTRODUCTION		
Section I. General		
Scope	1-1	1-1
Maintenance forms and records	1-2	1-1
Indexes of publications	1-3	1-1
Recommending improvements	1-4	1-1
Administrative storage	1-5	1-1
Tabulated data	1-6	1-1
Destruction of AN/PAS-6 to prevent enemy use	1-7	1-1
II. Service upon receipt of AN/PAS-6		
Damage report	1-8	1-1
Completeness	1-9	1-1
Modifications	1-10	1-1
III. Functioning of AN/PAS-6		
Light source	1-11	1-2
Metascope	1-12	1-2
CHAPTER 2. ORGANIZATIONAL MAINTENANCE INSTRUCTIONS		
Section I. General		
Maintenance operations and repair parts	2-1	2-1
Repainting and lubrication	2-2	2-1
II. Preventive maintenance and troubleshooting		
Preventive maintenance checks and services	2-3	2-1
Organizational troubleshooting	2-4	2-1
III. Organizational maintenance		
Light source	2-5	2-2
Metascope	2-6	2-2
CHAPTER 3. DIRECT SUPPORT MAINTENANCE INSTRUCTIONS		
Maintenance operations	3-1	3-1
Repair parts	3-2	3-1
Direct Support troubleshooting	3-3	3-1
High voltage power supply	3-4	3-1
Eyepiece	3-5	3-1
Image tube	3-6	3-1
Objective lens	3-7	3-2
Metascope switch	3-8	3-5
Light source switch	3-9	3-5
APPENDIX A. REFERENCES		A-1
B. MAINTENANCE ALLOCATION		B-1
C. ORGANIZATIONAL AND DIRECT SUPPORT, GENERAL SUPPORT AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS		C-1

*This manual together with TM 11-5855-239-10, 17 Apr 1973 supersedes TM 5-1090-203-15, 11 July 1962 including all changes.

LIST OF ILLUSTRATIONS

<i>Figure No.</i>	<i>Title</i>	<i>Page</i>	<i>Figure No.</i>	<i>Title</i>	<i>Page</i>
1-1	AN/PAS-6 optical and electrical schematic	1-3	3-2	Discharging high voltage power supply	3-3
2-1	Light source filter, reflector, and lamp disassembly	2-3	3-3	Eyepiece removal and replacement	3-3
2-2	Light source battery contacts and cap disassembly	2-4	3-4	Image tube removal and replacement	3-4
2-3	Metascope eyeshield replacement	2-5	3-5	Objective lens removal and re- placement	3-4
3-1	High voltage power supply re- moval and replacement	3-2	3-6	Metascope switch removal and replacement	3-5

CHAPTER 1

INTRODUCTION

Section I. General

1-1. Scope

a. This manual contains organizational and direct support (DS) maintenance instructions for Metascope AN/PAS-6. It includes basic functioning of the metascope, troubleshooting, and removal and replacement procedures for parts available at the organizational and DS category of maintenance.

b. The maintenance allocation chart (MAC) is in appendix B.

c. Repair parts and special tools lists are in appendix C.

d. Operating instructions are in TM 11-5855-239-10.

1-2. Maintenance Forms and Records

Maintenance forms and records that you are required to use are explained in TM 38-750.

1-3. Indexes of Publications

a. *DA Pam 310-4.* Refer to the latest issue of DA Pam 310-4 to see if there are new editions, changes, or additional publications pertaining to the metascope.

b. *DA Pam 310-7.* Refer to DA Pam 310-7

to determine whether there are Modification Work Orders (MWO's) pertaining to the metascope.

1-4. Recommending Improvements

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

1-5. Administrative Storage

Refer to TM 740-90-1 for administrative storage instructions.

1-6. Tabulated Data

Refer to TM 11-5855-239-10 for tabulated data on the AN/PAS-6.

1-7. Destruction of AN/PAS-6 to Prevent Enemy Use

Refer to TM 750-241-2 for instructions on destroying the AN/PAS-6 to prevent enemy use.

Section II. SERVICE UPON RECEIPT OF AN/PAS-6

1-8. Damage Report

Inspect the AN/PAS-6 for damage incurred during shipment. Report any damage in accordance with TM 38-750.

1-9. Completeness

Check the AN/PAS-6 against the component listing in the operator's manual and the packing slip to see if the shipment is complete. Report all discrepancies in accordance with the instructions

of TM 38-750. Place the AN/PAS-6 in service even though a minor assembly or part that does not affect proper functioning is missing.

1-10. Modifications

Check to see whether the AN/PAS-6 has been modified. An AN/PAS-6 which has been modified will have the MWO number near the nomenclature plate. Check also to see whether all currently applicable MWOs have been applied.

Section III. FUNCTIONING OF AN/PAS-6

1-11. Light Source (fig. 1-1, A)

The light source is basically an infrared flashlight. Two 1.5 volt batteries supply power for the lamp. Light from the lamp is formed into a beam by the reflector. The infrared filter blocks the visible light and passes only the infrared beam.

1-12. Metascope (fig. 1-1, B)

The metascope consists of an objective lens, image tube, eyepiece, housing (containing the corrector lens), and a high voltage power supply,

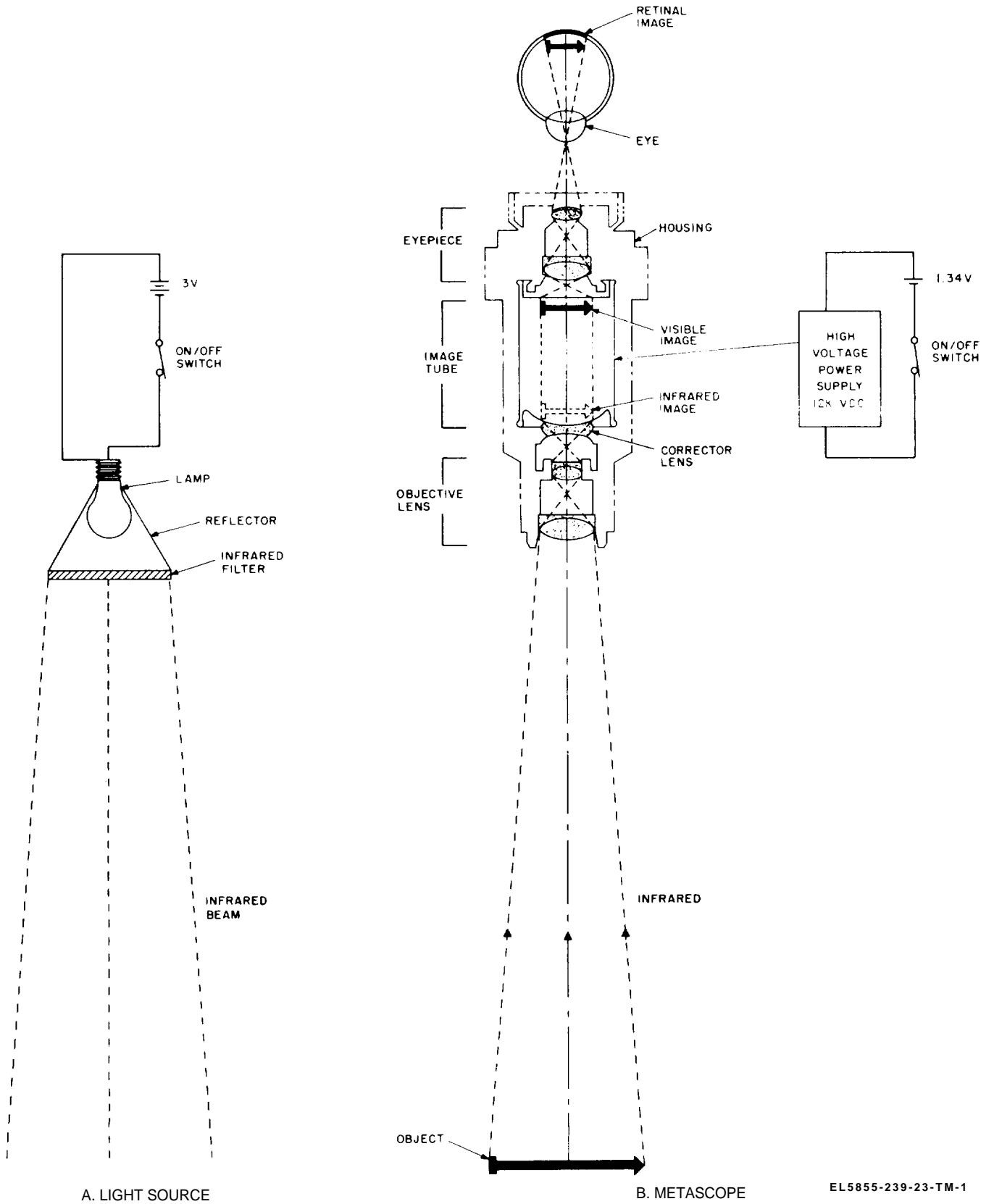
a. The objective lens focuses an infrared image of the scene being viewed on the front screen of the image tube.

b. The front screen of the image tube converts the infrared image into a pattern of emitted electrons. The electrons are accelerated and focused on a phosphor layer on the rear screen of the tube. The phosphor screen then converts the electron image into a visible image.

c. The eyepiece magnifies the visible image displayed on the rear screen of the image tube.

d. The housing contains the corrector lens which provides uniform focusing of the objective lens by correcting for the curved surface of the image tube front screen.

e. The high voltage power supply converts the 1.34 volt battery output to 12,000 volts dc to be used as accelerating voltage for the image tube.



EL5855-239-23-TM-1

Figure 1-1. AN/PAS-6 optical and electrical schematic.

CHAPTER 2

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. GENERAL

2-1. Maintenance Operations and Repair Parts

a. Maintenance Operations. Refer to the maintenance allocation chart (MAC) in appendix B for a summary of the maintenance operations you are authorized to perform.

b. Repair Parts. Refer to the repair parts list

in appendix C for information on the parts you are authorized to replace.

2-2. Repainting and Lubrication

a. Repainting. Refer to TB 746-10 for repainting and touchup instructions.

b. Lubrication. There are no lubrication requirements for organizational maintenance.

Section II. PREVENTIVE MAINTENANCE AND TROUBLESHOOTING

2-3. Preventive Maintenance Checks and Services (PMCS).

Preventive maintenance is the systematic care, service, and inspection of equipment to assure the equipment is serviceable and prevent the occurrence of trouble. Preventive maintenance checks and services table lists checks to be performed monthly. If you cannot correct the defect, a higher category of maintenance or repair is required. Record all checks in accordance with TM 38-750.

Table 2-1. Organizational Monthly Preventive Maintenance Checks and Services

Total man-hours required: .4

Sequence number	Item to be inspected procedure	Work time (man-hours)
1	EYESHIELD: Wipe clean with a damp cloth. Check for tears, holes, or any sign of deterioration.	.1
2	REFLECTOR: Remove lockring, packing ring, and filter as shown in figure 2-1. Check reflector for dust, dirt, rust, or corrosion. Clean with lens tissue or a soft lint-free cloth. Replace if rusty or corroded (para 2-6).	.1
3	LIGHT SOURCE CAP: Remove light source cap and check battery contacts on cap and in light source (fig. 2-2).	.1

Sequence number	Item to be inspected procedure	Work time (man-hours)
4	CARRYING CASE AND STRAP: Remove any rust or corrosion with fine abrasive paper. Check for rot or weakening of canvas by stretching or pulling. Replace if necessary. Remove mildew by scrubbing with a dry stiff brush. If you have to use water to remove dirt or grease, remove all mildew first. Scrub with mild soap and water to remove stubborn dirt or grease stains. Rinse with clean water and allow to dry thoroughly.	.1

Remove any rust or corrosion with fine abrasive paper.

4 CARRYING CASE AND STRAP: .1
Check for rot or weakening of canvas by stretching or pulling. Replace if necessary. Remove mildew by scrubbing with a dry stiff brush. If you have to use water to remove dirt or grease, remove all mildew first. Scrub with mild soap and water to remove stubborn dirt or grease stains. Rinse with clean water and allow to dry thoroughly.

NOTE

Do not use strong soap or detergent as it may weaken or remove fungus resistant chemicals in canvas.

2-4. Organizational Troubleshooting

Table 2-2 contains troubleshooting information for locating and correcting most of the operating troubles which may develop in the AN/PAS-6. Each trouble is followed by a list of probable causes and corrective actions for you to take. The table does not list all possible troubles that may occur. If a trouble is not listed (except when the trouble and cause are obvious), or is not corrected by listed corrective actions, notify your supervisor.

Table 2-2. Organizational Troubleshooting

<i>Trouble</i>	<i>Possible cause</i>	<i>Corrective action</i>
1. Light source failure	a. Weak or dead batteries b. Defective lamp c. Rusted or corroded reflector d. Defective switch e. Contacts corroded	a. Replace batteries b. Replace lamp c. Replace reflector d. Report to DS maintenance e. Clean contacts
2. Weak or no illumination of image tube.	a. Image tube defective b. Weak or dead battery c. High voltage power supply defective. d. Switch defective	a. Replace metascope b. Replace battery c. Report to DS maintenance d. Report to DS maintenance
3. Poor image at long range	Image tube not seated properly	Report to DS maintenance
4. Image pulsates	a. Image tube failure b. Image tube contact ring not making contact.	a. Replace metascope b. Report to DS maintenance
5. Bright flash in image tube or sparking around edge of image.	Image tube defective	Replace metascope
6. Short viewing time	a. Dirty image tube b. Dirty high voltage power supply	a. Replace metascope b. Report to DS maintenance

Section III. ORGANIZATIONAL MAINTENANCE

2-5. Light Source

a. *Filter, Reflector, and Lamp* (fig. 2-1).

- (1) Unscrew the lockring counterclockwise.
- (2) Disassemble the parts as shown.
- (3) If necessary, clean the filter and reflector with lens tissue or a soft lint-free cloth.
- (4) Check the lamp and switch contacts for corrosion. Clean with fine abrasive paper.
- (5) Replace the packing rings under the thumbscrews if the rubber is damaged or deteriorated. Lubricate new packing ring with pneumatic grease MIL-G-4343.

b. *Cap Assembly and Battery Contacts* (fig. 2-2).

- (1) Disassemble the cap assembly as shown.

(2) Remove corrosion from the battery contacts with fine abrasive paper.

(3) Replace the packing ring if the rubber is damaged or deteriorated. Lubricate new packing ring with pneumatic grease MIL-G-4343.

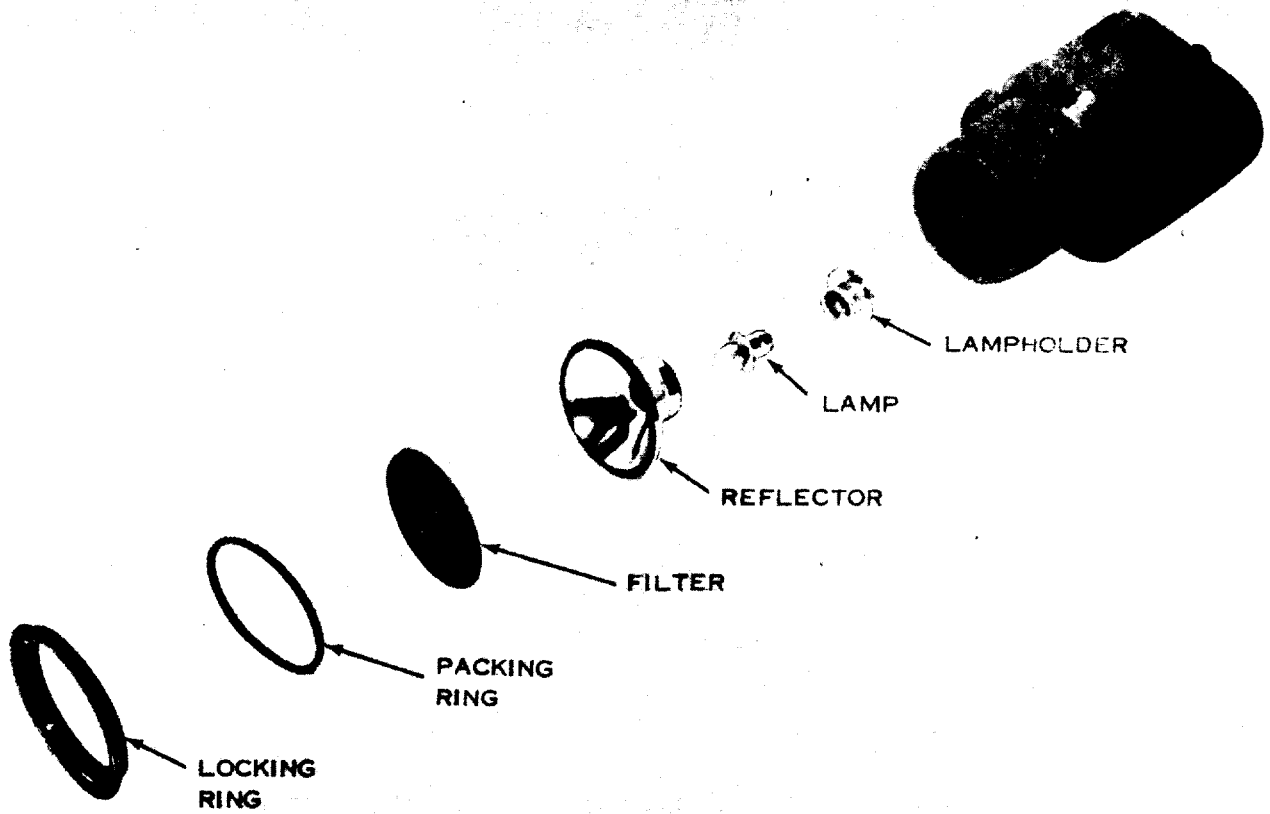
- (4) Reassemble the parts as shown.

2-6. Metascope

a. *Eyeshield* (fig. 2-3). Replace eyeshield as shown.

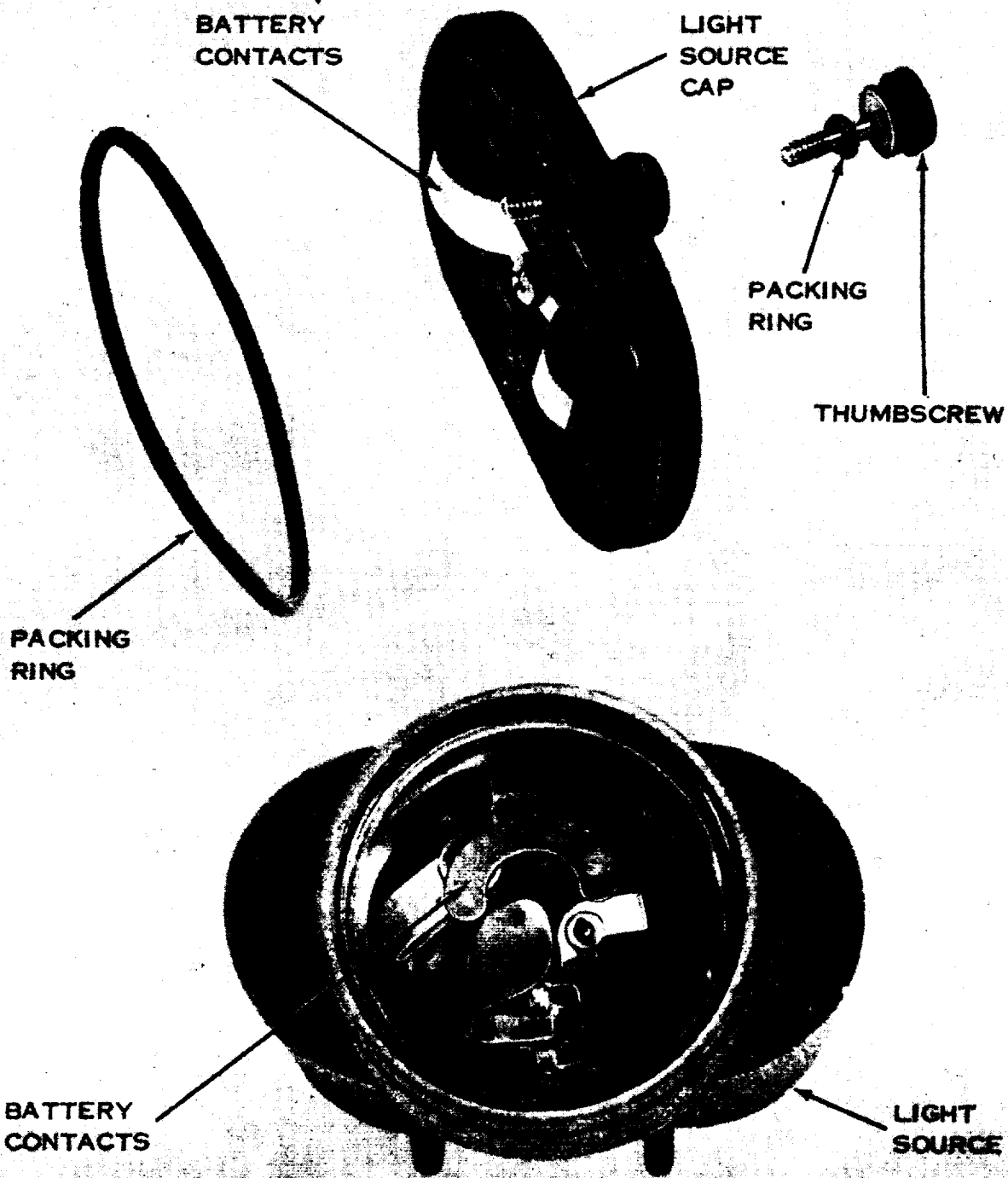
b. *Battery contacts* (fig. 2-2, TM 11-5855-239-10).

- (1) Disassemble as shown.
- (2) Remove corrosion from the battery contacts with fine abrasive paper.
- (3) Reassemble the parts as shown.



EL 5855 -239-23-TM-2

Figure 2-1. Light source filter, reflector, and lamp disassembly.



EL 5855-239-23-TM-3

Figure 2-2. Light source battery contacts and cap disassembly.

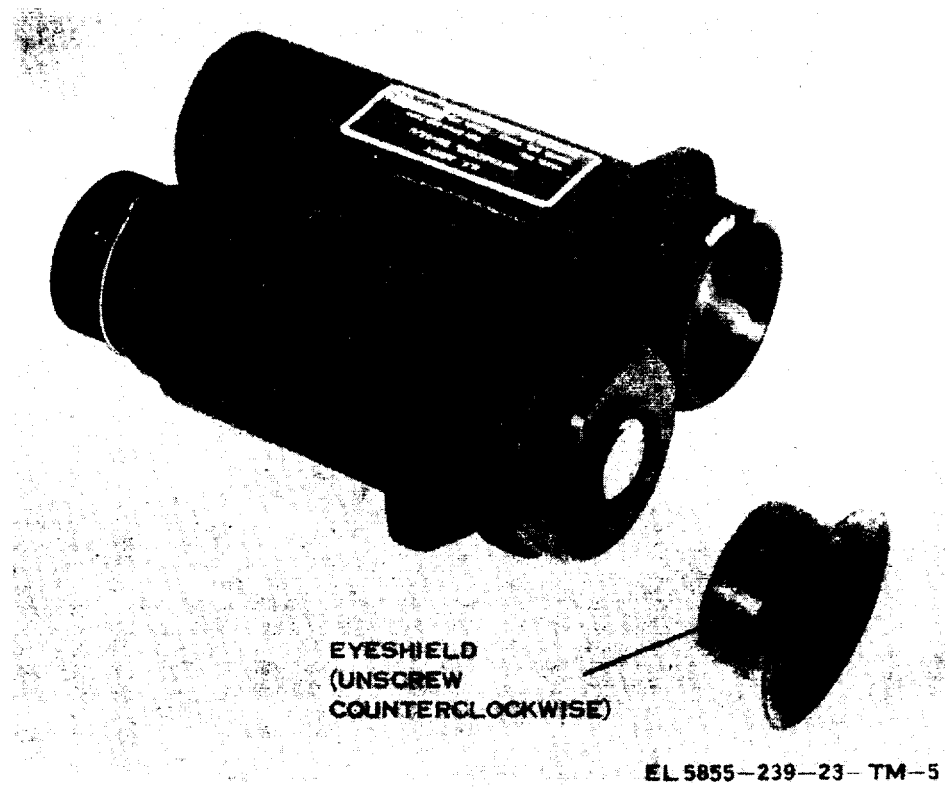


Figure 2-3. Metascope eyeshield replacement.

CHAPTER 3

DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

3-1. Maintenance Operations

Refer to the maintenance allocation chart (MAC) in appendix B for a summary of the maintenance operations you are authorized to perform. The MAC also lists the tools and test equipment required for DS maintenance.

3-2. Repair Parts

Refer to the repair parts list in appendix C for

information on the parts you are authorized to replace.

3-3. Direct Support Troubleshooting

The troubleshooting procedures in table 3-1 supplement the organizational troubleshooting procedures (para 2-4 and table 2-2).

Table 3-1. Direct Support Troubleshooting

<i>Trouble</i>	<i>Possible cause</i>	<i>Corrective action</i>
1. Weak or no illumination of the image tube.	a. Image tube defective b. Defective switch	a. Replace image tube (para 3-6). b. Replace switch (para 3-8).
2. Poor image at long range	Image tube not seated properly	Reseat the image tube (para 3-6).
3. Image pulsates	a. Image tube defective b. Image tube contact ring not making contact.	a. Replace image tube (para 3-6). b. Remove contact ring and clean. Replace if defective (para 3-6).
4. Bright flash in image tube or sparking around edge of image.	Image tube defective	Replace image tube (para 3-6).
5. Short viewing time	Dirty image tube	Clean image tube (para 3-6).
6. Light source failure	Defective switch	Replace switch (para 3-9).

3-4. High Voltage Power Supply (fig. 3-1)

- a. Unscrew the switch assembly counterclockwise.
- b. Hold the metascope with the palm of your hand over the open end. Tilt the metascope up and rap the closed end with your other hand. The power supply should slide free.
- c. Discharge the power supply as shown on figure 3-2.
- d. Clean electrical contact areas, if necessary, with fine abrasive paper. Wipe off with lens tissue or a lint-free cloth.
- e. Test the power supply by replacing it with a new one.
- f. Replace the power supply, battery, and switch assembly.

3-5. Eyepiece (fig. 3-3)

- a. Unscrew the eyepiece counterclockwise.
- b. Unscrew the eyeshield and inspect the lenses for scratches, chips, or breaks.
- c. Clean the lenses with lens tissue or a lint-free cloth. Use distilled water if necessary.
- d. Replace the packing ring if the rubber is deteriorated or damaged. Lubricate new packing ring with pneumatic grease MIL-G-4343.
- e. Screw the eyepiece into the metascope clockwise.

3-6. Image Tube (fig. 3-4)

- a. Unscrew the eyepiece counterclockwise.

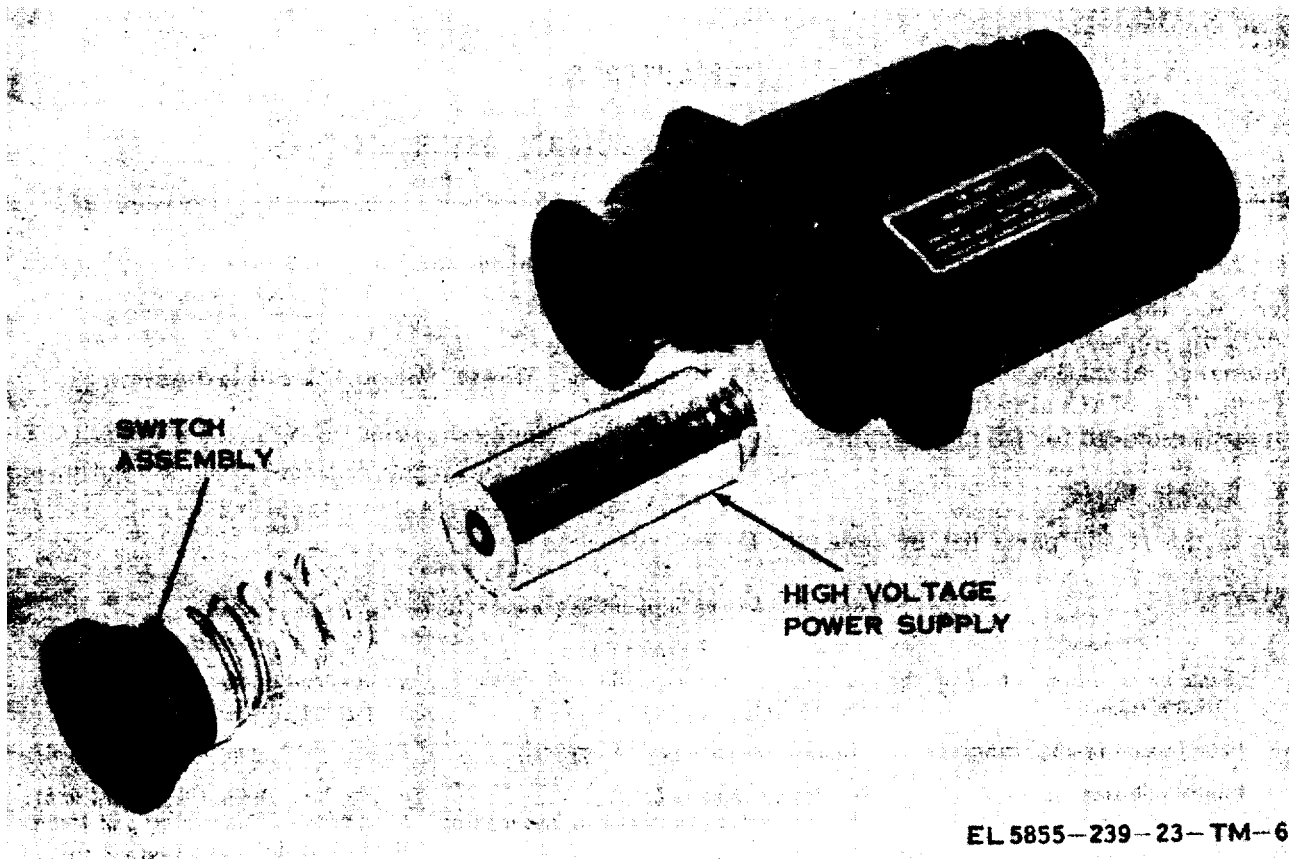


Figure 3-1. High voltage power supply removal and replacement.

EL 5855-239-23-TM-6

b. Tip the metascope so that the image tube slides part way out.

c. Hold the metascope in one hand and firmly pull the image tube out with the other hand. It may be necessary to slightly rock the image tube past the alignment ring.

d. Remove the contact ring. Inspect it for damage or corrosion. Replace if necessary.

e. Clean the corrector lens (located at the end of the tube housing) with lens tissue or soft lint-free cloth.

f. Clean the image tube if necessary with a soft lint-free cloth.

g. Test the image tube by replacing it with a new one.

h. When you replace the contact ring and image tube make sure they are correctly orientated as it is possible to install them backwards.

3-7. Objective Lens

(fig. 3-5)

a. Remove the retainer wire.

b. Unscrew the objective lens counterclockwise.

c. Inspect the lenses for scratches, chips, or breaks. Clean the lenses with lens tissue of a soft lint-free cloth.

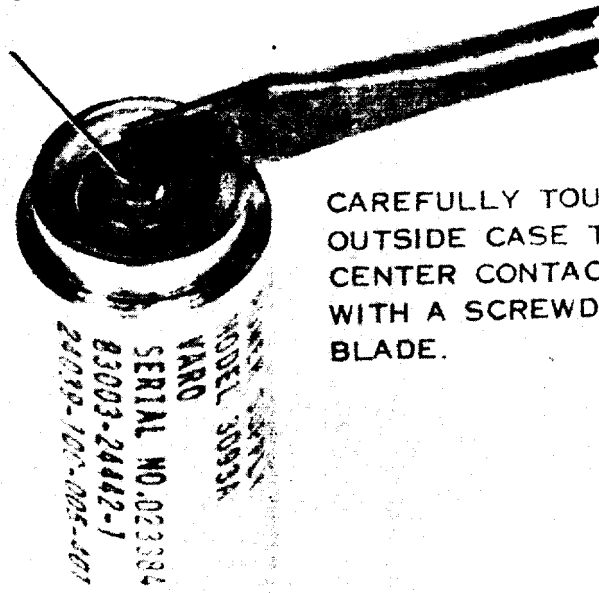
d. Replace the parking ring if the rubber has deteriorated or is damaged. Lubricate the new packing ring with pneumatic grease MIL-G-4343.

e. Clean the corrector lens (located in metascope housing) with lens tissue or a soft lint-free cloth.

f. Screw the objective lens all the way in the metascope housing.

g. Insert the retainer wire.

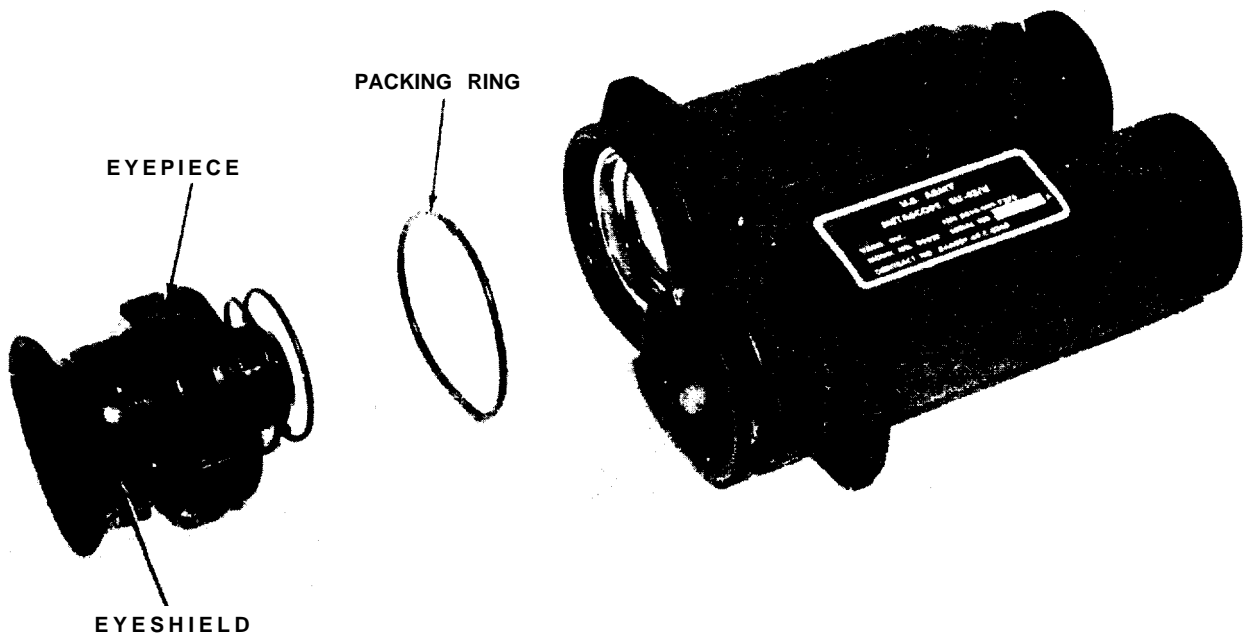
CONTACT
PIN



CAREFULLY TOUCH THE
OUTSIDE CASE TO THE
CENTER CONTACT PIN
WITH A SCREWDRIVER
BLADE.

EL5855-239-23-TM-7

Figure 3-2. Discharging high voltage power supply.



EL5855-239-23-TM-8

Figure 3-3. Eyepiece removal and replacement.

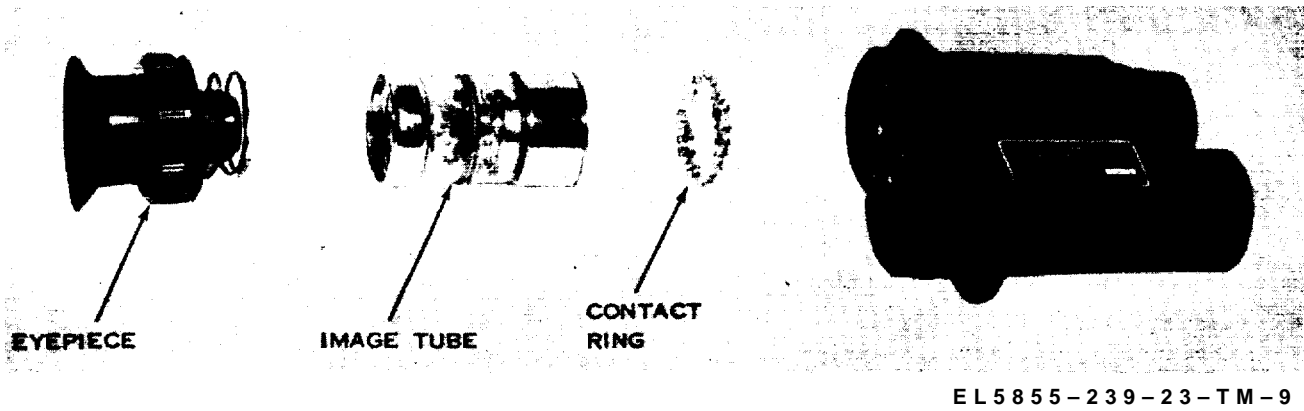


Figure 3-4. Image tube removal and replacement

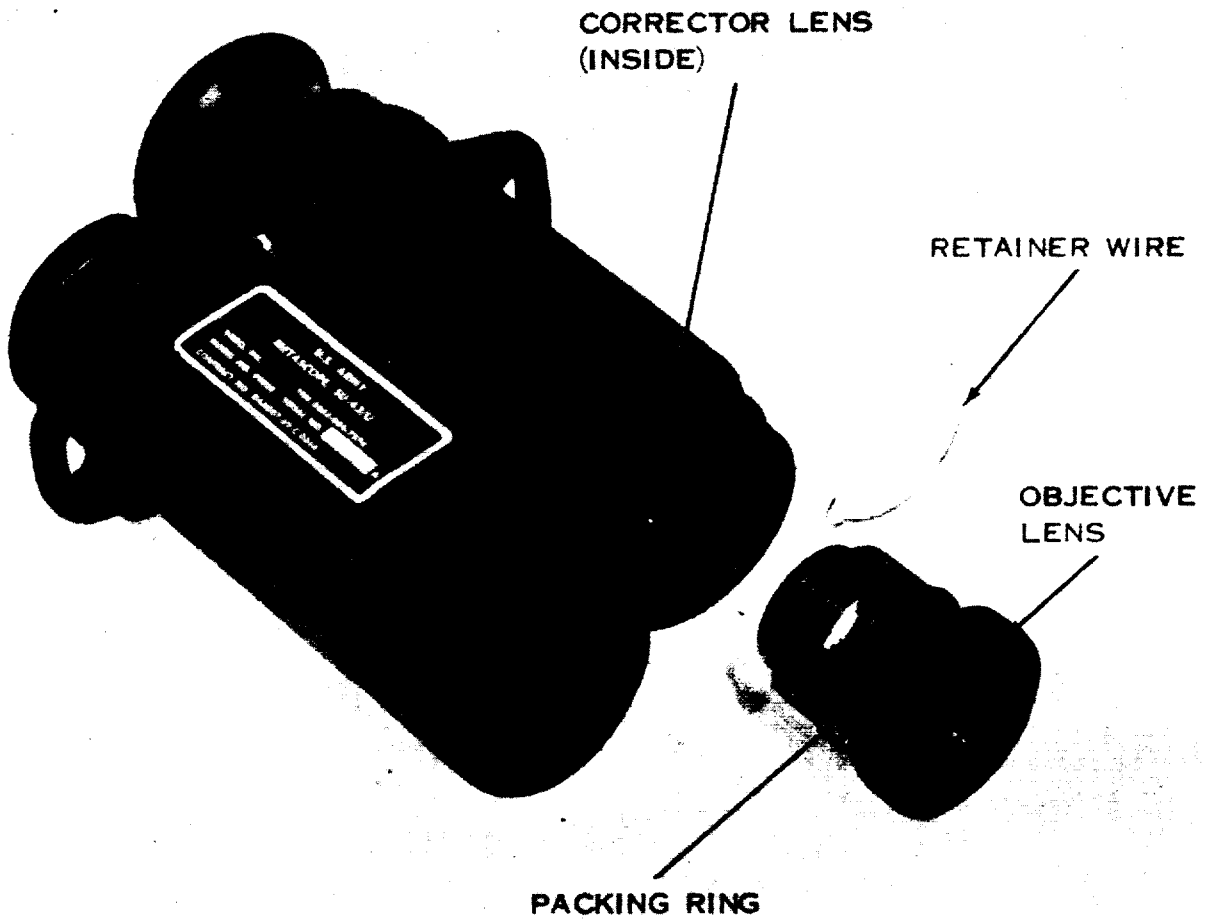
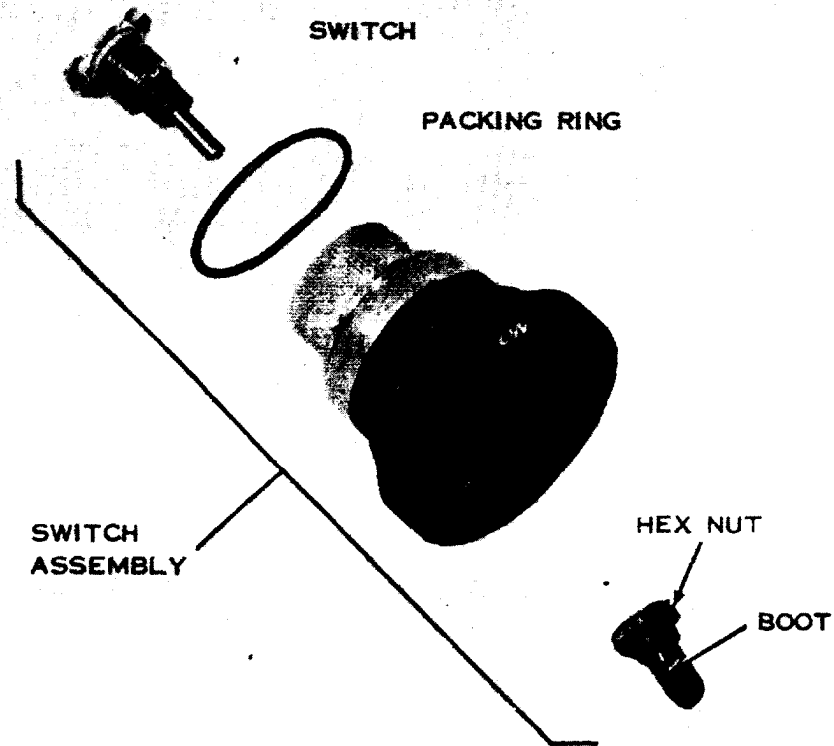


Figure 8-5. Objective lens removal and replacement.



EL5855-239-23-TM-11

*Figure 3-6. Metascop switch removal and replacement.***3-8. Metascop Switch**

fig. 3-6)

- a. Unscrew the metascop switch assembly.
- b. Check the switch for proper continuity with an ohmmeter.
- c. If necessary, clean the contacts with fine abrasive paper.
- d. If you are going to replace the switch, unscrew the hex nut which is under the boot.

3-9. Light Source Switch

- a. Remove the light source filter, reflector, and lamp (para 2-6).
- b. Check the switch for proper continuity with an ohmmeter.
- c. If necessary, clean the contacts with fine abrasive paper.
- d. If you are going to replace the switch, unscrew the hex nut which is under the boot, similar to that shown for the metascop switch (fig. 3-6).

APPENDIX A**REFERENCES**

The following publications contain information applicable to the organizational and DS maintenance of the AN/PAS-6.

DA PAM 310-4	Index of Technical Manuals, Technics! Bulletins, Supply Manuals (Types 7, 8, and 9), Supply Bulletins, and Lubrication Orders.
DA PAM 310-7	US Army Equipment Index of Modification Work Orders.
TB 746-10	Field Instructions for Painting and Preserving Electronics Command Equipment.
TM 11-5855-239-10	Operator's Manual, Metascope AN/PAS-6.
TM 38-750	The Army Maintenance Management System (TAMMS).
TM 740-90-1	Administrative Storage of Equipment.
TM 750-244-2	Procedures Destruction of Electronics Materiel (Electronics Command) to Prevent Enemy Use.

APPENDIX B

MAINTENANCE ALLOCATION

Section I. INTRODUCTION

B-1. General

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

B-2. Maintenance Functions

Maintenance functions will be limited to and defined as follows:

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

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

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

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

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

f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipment used to precision measurement, Consists of the comparison of two instruments, one of

which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

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

h. Replace. The act of substituting a serviceable like-type part, subassembly, module (component or assembly) in a manner to allow the proper functioning of an equipment/system.

i. Repair. The application of maintenance services (inspect, test, service, adjust, align, calibrate, replace) or other maintenance actions (welding, grinding, riveting, straightening, facing, remachining, or resurfacing) to restore serviceability to an item by correcting specified damage, fault, malfunction, or failure in a part, subassembly, module/component/assembly, end item or system.

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

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

l. Symbols. The uppercase letter placed in the appropriate column indicates the lowest level at

which that particular maintenance function is to be performed.

B-3. Explanation of Format

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

b. *Functional Group.* Column 2 lists the next higher assembly group and the item names of components, assemblies, subassemblies and modules within the group for which maintenance is authorized.

c. *Maintenance Functions.* Column 3 lists the twelve maintenance functions defined in B-2 above. Each maintenance functions required for an item is specified by the symbol among those listed in *d* below which indicates the level responsible for the required maintenance. Under this symbol is listed an appropriate work measurement time value determined as indicated in *e* below.

d. *Use of Symbols.* The following symbols are used to prescribe work function responsibility:

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

e. *Work Measurement Time.* The active repair time required to perform the maintenance function is included directly below the symbol identifying the category of maintenance. The skill levels used to obtain the measurement times approximate those found in typical TOE units. Ac-

tive repair time is the average aggregate time required to restore an item (subassembly, assembly, component, module, end item or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, fault isolation/diagnostic time, and QA/QC time in addition to the time required to perform specific maintenance functions identified for the tasks authorized in the maintenance allocation chart. This time is expressed in man-hours and carried to one decimal place (tenths of hours).

f. *Took and Test Equipment.* This column is used to specify by code, those tools and test equipment required to perform the designated function.

g. *Remarks.* Self-explanatory.

B-4. Explanation of Format of Table I and Test Equipment Requirements

The columns in table I follows:

a. *Tools and Equipment.* The numbers in this column coincide with the numbers used in the tools and equipment column of the maintenance allocation chart. The numbers indicate the applicable tools for the maintenance function.

b. *Maintenance Category.* The codes in this column indicate the maintenance category normally allocated the facility.

c. *Nomenclature.* This column lists tools, test, and maintenance equipment required to perform the maintenance functions.

d. *Federal Stock Number.* This column lists the Federal stock number of the specific tool or test equipment.

e. *Tool Number.* Not used.

SECTION II. MAINTENANCE ALLOCATION CHART

GROUP NUMBER	FUNCTIONAL GROUP	MAINTENANCE FUNCTIONS										TOOLS AND EQUIPMENT	REMARKS	
		INSPECT	TEST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	REPAIR	OVERHAUL			REBUILD
1	METASCOPE AN/PAS-6	C .1	F .2	C .1						O S F S			1,2	
1A	LIGHT SOURCE MX-7987/PAS-6	C .1	F .2	C .1			C .1	O .1	O .1	O S F S			1,2	
1A1	LAMP, FILTER, REFLECTOR	C .1		C .1			O .1	O .1						
1A2	BATTERIES BA-30	C .1						C .1						
1B	METASCOPE SU-43/U	C .1	F .2	C .1			C .1	O .1	O .1	O S F S			1,2	
1B1	EYEPIECE	C .1		C .1					F .3					
1B2	EYESHIELD	C .1		O .1					O .1					
1B3	OBJECTIVE LENS	C .1		C .1					F .2					
1B4	IMAGE TUBE	F .1							F .2					
1B5	POWER SUPPLY, HIGH VOLTAGE	F .1							F .2					
1B6	BATTERY, BA-1312	C .1					C .1	C .1						

SECTION II. MAINTENANCE ALLOCATION CHART

GROUP NUMBER	FUNCTIONAL GROUP	MAINTENANCE FUNCTIONS										TOOLS AND EQUIPMENT	REMARKS		
		INSPECT	TEST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	REPAIR	OVERHAUL			REBUILD	
1C	CARRYING CASE	0 .1		0 .1				0 .1	0 .1						
1D	CARRYING STRAP	0 .1		0 .1				0 .1	0 .1						

TABLE I. TOOL AND TEST EQUIPMENT REQUIREMENTS

TOOLS AND EQUIPMENT	MAINTENANCE CATEGORY	NOMENCLATURE	FEDERAL STOCK NUMBER	TOOL NUMBER
1	F	MULTIMETER TS-352B/U	6625-242-5023	
2	F	TOOL KIT, TK-100/G	5180-605-0079	

APPENDIX C

**ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT AND DEPOT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LISTS**

Section I. INTRODUCTION

C-1. Scope

This appendix lists repair parts, special tools, and test equipment required for the performance of organizational, direct support, general support, and depot maintenance of the AN/PAS-6.

C-2. General

This repair parts and special tools list is divided into the following sections:

a. Repair Parts for Organization Maintenance—Section II. A list of repair parts authorized at the organizational level for the performance of maintenance. The list also includes parts which must be removed for the replacement of authorized parts.

b. Repair Parts for Direct Support, General Support, and Depot Maintenance—Section III. 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 the replacement of the authorized parts.

c. Special Tools List—Section IV. Not Applicable.

d. Index-Federal Stock Number and Reference Number Cross Reference to Figure and Sequence Number—Section V. 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 sequence Numbers.

C-3. Explanation of Columns

The following provides an explanation of columns in the tabular lists of sections II and III.

a. Source, Maintenance and Recoverability Codes (SMR), Column 1.

(1) *Source code.* Indicates the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are:

<i>Code</i>	<i>Explanation</i>
PA	Items procured and stocked for anticipated or known usage.
PB	Item procured and stocked for insurance purposes because essentiality dictates that a minimum quantity be available in the supply systems.
PC	Item procured and stocked and which would otherwise be coded PA except that it is deteriorative in nature.
PD	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.
PE	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.
PF	Support equipment which will not be stocked but which will be centrally procured on demand.
PG	Item 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 reproduce at a later time.
KD	An item of depot overhaul/repair kit and not purchased separately. Depot kit 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 defined as a kit that provides an item that

Code	<i>Explanation</i>
	can be replaced at organizational or direct support or general support levels of maintenance.
KB	Item included in both a depot overhaul/repair kit and a maintenance kit.
MO	Item to be manufactured or fabricated at organizational level.
MF	Item to be manufactured or fabricated at direct support maintenance level.
MH	Item to be manufactured or fabricated at general support maintenance level.
MD	Item to be manufactured or fabricated at depot maintenance level.
AO	Item to be assembled at organizational level.
AF	Item to be assembled at direct support maintenance level.
AH	Item to be assembled at general support maintenance level.
AD	Item to be assembled at depot maintenance level.
XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB	Item is not procured or stocked. If not available through salvage/requisition.
XC	Installation drawing, diagram instruction sheet, field service drawing, that is identified by manufacturer's part number.
—	Support items listed in this RPSTL-TM assigned maintenance and recoverability codes and no source codes can be requisitioned with justification.

NOTE

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

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

USE (THIRD POSITION): The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The decision to code the item for removal and replacement at the indicated maintenance level will require that all the capabilities necessary to in-

stall and insure proper operation after installation of a replacement item (i.e., pre-installation inspection, testing and post-installation check-out) are provided. The maintenance code entered in the third position will indicate one of the following levels of maintenance.

<i>Code</i>	<i>Application/explanation</i>
O	Support item is removed, replaced, used at the organizational level of maintenance. Note (2) : A code "C" may be used in this position to denote crew or operator maintenance performed within organizational maintenance.
F	Support item is removed, replaced, used at the direct support maintenance level.
H	Support item is removed, replaced, used at the general support maintenance.
D	Support items that are removed, replaced, used at depot only.

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). The decision to code the support item for repair at the indicated maintenance levels requires that all maintenance capability (remove, replace, repair, assemble, and test) for the support items be provided to that level. This does not preclude some repair which may be accomplished at a lower level of maintenance. However, because of service differences in communicating maintenance repair level information a maintenance code entry in this position is not required by all services. When a maintenance code is not used a dash (—) sign will be entered. For multi-service 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:

<i>Code</i>	<i>Application/explanation</i>
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F	The lowest maintenance level capable of complete repair of the support item is direct support.
H	The lowest maintenance level capable of complete repair of the support item is general support.
D	The lowest maintenance level capable of com-

<i>Code</i>	<i>Application/explanation</i>
	plete repair of the support item is the depot level.
L	Repair restricted to designated Specialized Repair Activity.
Z	Nonrepairable. No repair is authorized.
B	No repair is authorized. The item may be reconditioned 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:

<i>Code</i>	<i>Application/explanation</i>
Z	Nonrepairable item. When unserviceable, condemn and dispose at the level indicated in the first digit of the maintenance code.
O	Repairable item. When uneconomically repairable, condemn and dispose at organizational level.
F	Repairable item. When uneconomically repairable, condemn and dispose at the direct support level.
H	Repairable item. When uneconomically repairable, condemn and dispose at the general support level.
D	Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
L	Repairable item. Repair, condemnation and disposal not authorized below Specialized Repair Activity level.
A	Item requires special handling or condemnation procedures because of specific reasons (i. e., precious metal content, high dollar value, critical material or hazardous material).

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

c. Description. Indicates the sequence number, indenture code, Federal item name and a minimum description required to identify the item. The last line indicates the reference number followed by the applicable Federal Supply Code for Manufacturer (FSCM) in parentheses. The FSCM is used as an element in item identification

to designate manufacturer or distributor or Government agency, etc., and is identified in SB 708-42.

d. Unit of Measure (U/M). 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., and is the basis used to indicate quantities and allowances in subsequent columns. 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. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable, e.g., shims, spacers, etc.

f. 15-Day Organizational Maintenance Allowances.

(1) The repair parts indicated by an asterisk in the allowance columns represent those authorized for use at the organizational category and will be requisitioned on an "as required" basis until stockage is based on demand in accordance with AR 710-2.

(2) Major Army commanders are authorized to approve reduction in range of support items authorized for use in units within their commands. Recommendation for increase in range of items authorized for use will be forwarded to the (enter the national level maintenance management agency responsible for the preparation of the RPSTL). Any changes approved will be reflected in a revision to the RPSTL.

(3) Allowance quantities are indicated in the Special Tools List section for special tools, TMDE, and other support equipment.

g. 30-Day DS/GS Maintenance Allowances.

NOTE

Allowances in GS Column are for GS Maintenance only.

(1) The repair parts indicated by asterisk entries in separate allowance columns for DS and GS represent those authorized for use at that category of maintenance to be requisitioned on an "as required" basis.

(2) Allowance quantities are indicated in the special tools list section for special tools, TMDE, and other support equipment.

h. 1-year Allowances Per 100 Equipments/Contingency Planning Purposes. This column intentionally left blank.

i. Depot Maintenance Allowances Per 100 Equipments. This column indicates that the item identified with an asterisk are authorized to be requisitioned as required.

j. Illustration. This column is divided as follows:

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

(2) *Reference Designator Number.* Indicates the reference designation used to reference the item on the illustration.

C-4. Special Information

a. Detailed manufacture instructions for items source coded "M" are found in this manual. Bulk materials required to manufacture items are listed in the Bulk Materials Group of this manual.

b. Detailed assembly instructions for items

source coded "A" are found in this manual. Assembly components are listed immediately following the item to be assembled.

c. Parts which require manufacture or assembly at a category higher than that authorized for installation will indicate in the source column the higher category (e.g., MF, AF, MH).

d. Repair parts kits and gasket sets—not applicable.

e. (Applicable to revision and/or change only). Action change codes indicated in the left-hand margin of the listing page denote the following:

N—Indicates an added item.

C—Indicates a change in data.

R—Indicates a change in FSN only.

C-5. How to Locate Repair Parts

a. When the Federal stock number of part number is known—

(1) Refer to section V and locate the FSN or part number.

(2) Note the sequence number and then locate that sequence number in section III (RP-STL).

SECTION II REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE

(1) SMP CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION Reference Number & Mfr Code	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUSTRATIONS	
						(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
		A001 A METASCOPE AN/PAS-6 SCD615250 (80063) (This item is nonexpendable) NOTE: Useable on Code 1. Varo Model 9902A 2. Varo Model 9902C 3. Varo Model 9902D 4. Varo Model 9902E 5. Control Science Model MA364									
PAOPF	5855-832-8796	A002 LIGHT SOURCE MX-7987/PAS-6 (H005H)	1,2,3,4,5	EA	1	*	*	*	*		2-1
PAOPF	6140-010-5232	A004 BATTERY CAP ASSEMBLY SCC635309 (80063)	1,2,3,4,5	EA	1	*	*	*	*		2-2
PAOZZ	5305-855-0726	A005 THUMBSCREW SCB635325 (80063)	1,2,3,4,5	EA	1	*	*	*	*		2-2
PCOZZ	5330-252-6053	A009 PACKING, PREFORMED MS29513-140 (96906)	1,2,3,4,5	EA	1	*	*	*	*		2-2
PCOZZ	5330-584-1100	A010 PACKING, PREFORMED MS9021-006 (96906)	1,2,3,4,5	EA	2	*	*	*	*		2-2
PCOZZ	5330-584-1100	A011 PACKING, PREFORMED MS9021-006 (96906)	1,2,3,4,5	EA	REF	*	*	*	*		2-2
PAOZZ	9150-269-8255	A013 GREASE, LUBRICANT MILG4343 (81349)	1,2,3,4,5	TU	AR	*	*	*	*		
PAOZZ	5850-896-4044	A014 RING, FILTER RETAINER SCC635312 (80063)	1,2,3,4,5	EA	1	*	*	*	*		2-1
PAOZZ	6210-848-7994	A015 REFLECTOR, LIGHT SCD635313 (80063)	1,2,3,4,5	EA	1	*	*	*	*		2-1
PAOZZ	5850-831-2911	A016 FILTER, INFRARED SCC635314 (80063)	1,2,3,4,5	EA	1	*	*	*	*		2-1
PCOZZ	5330-584-1582	A017 PACKING, PREFORMED MS9021-130 (80063)	1,2,3,4,5	EA	1	*	*	*	*		2-1
PAOZZ	6240-155-7786	A018 LAMP, INCANDESCENT MS15610-2 (96906)	1,2,3,4,5	EA	1	*	*	*	*		2-1
PAOZZ	5850-896-4045	A024 LAMPHOLDER SCB635315 (80063)	1,2,3,4,5	EA	1	*	*	*	*		2-1
PAOZZ	9150-269-8255	A032 GREASE, LUBRICANT MILG4343 (81349)	1,2,3,4,5	TU	AR	*	*	*	*		
PAOZZ	5340-823-5197	A033 STRAP ASSEMBLY SCC635307 (80063)	1,2,3,4,5	EA	1	*	*	*	*		1-1 -10
PAOPF	5855-089-7274	A034 METASCOPE SU-43/U SCD635252 (80063)	1,2,3,4,5	EA	1	*	*	*	*		2-3
PAOZZ	6650-847-3492	A036 EYESHIELD SCC623478 (80063)	1,2,3,4,5	EA	1	*	*	*	*		2-3
PAOPF	1090-075-4737	A052 SWITCH ASSEMBLY SCC635294 (80063)	1,2,3,4,5	EA	1	*	*	*	*		3-6
PCOZZ	5330-576-4974	A074 PACKING, PREFORMED MS9021-121 (96906)	1,2,3,4,5	EA	1	*	*	*	*		3-6
PAOZZ	9150-269-8255	A093 GREASE, LUBRICANT MILG4343 (81349)	1,2,3,4,5	TU	AR	*	*	*	*		
PAOZZ	5855-010-5068	A094 CASE, CARRYING SCD635251 (80063)	1,2,3,4,5	EA	1	*	*	*	*		1-1 -10

SECTION III REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

(1) SIR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1 YR ALW PER EQUIP ENTGTY	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATIONS	
					(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(1a) FIG NO.	(1b) ITEM NO. OR REFERENCE DESIGNATION
					REFERENCE NUMBER & MFR. CODE									
	5855-790-6197	A001 A METASCOPE AN/PAS-6 SCD635250 (80063) (This item is nonexpendable) NOTE: Useable on Code: 1. Varo Model 9902A 2. Varo Model 9902C 3. Varo Model 9902D 4. Varo Model 9902E 5. Control Science Model MA364												
PAOFF	5855-832-8796	A002 B LIGHT SOURCE MX-7987/PAS-6 (80058)	EA	1	*	*	*	*	*	*		*	2-1	
XAOZZ		A003 C HOUSING, LIGHT SOURCE SCD635309 (80063)												
PAOFF	6140-010-5232	A004 C BATTERY CAP ASSEMBLY SCC635309 (80063)	EA	1	*	*	*	*	*	*		*	2-2	
FAOZZ	5305-855-0726	A005 * THUMBSCREW SCB635325 (80063)	EA	2	*	*	*	*	*	*		*	2-2	
XAPZZ		A006 D COVER, BATTERY SCD635322 (80063)	EA	1										
XAPZZ		A007 D CONTACT, ELECTRICAL SCC635324 (80063)	EA	1										
XAPZZ		A008 * SCREW, MACHINE MS51957-24 (96906)	EA	1										
PCOZZ	5330-252-6053	A009 D PACKING, PREFORMED MS29513-140 (96906)	EA	1	*	*	*	*	*	*		*	2-2	
PCOZZ	5330-584-1100	A010 D PACKING, PREFORMED MS9021-006 (96906)	EA	2	*	*	*	*	*	*		*	2-2	
PCOZZ	5330-584-1100	A011 D PACKING, PREFORMED MS9021-006 (96906)	EA	REP	*	*	*	*	*	*		*	2-2	
XAPZZ		A012 D ADHESIVE 11C (04347)	TU	AR										
PAOZZ	9150-269-8255	A013 D GREASE, LUBRICANT MILG4343 (81349)	TU	AR	*	*	*	*	*	*		*		
PAOZZ	5850-896-4044	A014 C RING, FILTER RETAINER SCC635312 (80063)	EA	1	*	*	*	*	*	*		*	2-1	
PAOZZ	6210-848-7994	A015 C REFLECTOR, LIGHT SCD635313 (80063)	EA	1	*	*	*	*	*	*		*	2-1	
PAOZZ	5850-831-2911	A016 C FILTER, INFRARED SCC635314 (80063)	EA	1	*	*	*	*	*	*		*	2-1	
PCOZZ	5330-584-1582	A017 C PACKING, PREFORMED MS9021-130 (96906)	EA	1	*	*	*	*	*	*		*	2-1	
PAOZZ	6240-155-7786	A018 C LAMP, INCANDESCENT MS15610-2 (96906)	EA	1	*	*	*	*	*	*		*	2-1	
PAPFF	5830-898-5106	A019 C SWITCH ASSEMBLY SCC635317 (96906)	EA	1	*	*	*	*	*	*		*	2-1 -10	
XAPZZ		A020 D SWITCH, TOGGLE TES (76309)	EA	1										
XAPZZ		A021 D CONTACT, ELECTRICAL SCC635319 (80063)	EA	1										
XAPZZ		A022 D CONTACT, ELECTRICAL SCC635320 (80063)	EA	1										
PCFZZ	5930-633-6470	A023 D BOOT, DUST & MOISTURE SEAL MS030L (81640)	EA	1	*	*	*	*	*	*		*	3-6	
PAOZZ	5850-896-4045	A024 C LAMPHOLDER SCB635315 (80063)	EA	1	*	*	*	*	*	*		*	2-1	

SECTION III REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (CONTINUED)

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE	(4) UNIT OF MEAS USABLE ON CODE	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1 YR ALW PER EQUIP CNTGCT	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATIONS	
					(a)	(b)	(c)	(a)	(b)	(c)			(a)	(b)
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO.	ITEM NO. OR REFERENCE DESIGNATION
XAFZZ		A025 C CONTACT, ELECTRICAL SCC635316 (83006)	4,5	EA	1									
XAFZZ		A026 * SCREW, DRIVE MS21318-21 (96906)	2,3,4, 5	EA	1									
XAFZZ		A027 * WASHER, FLAT MS15795-804 (96906)	1,2,3, 4,5	EA	1									
XAFZZ		A028 C SCREW, DRIVE MS21318-2 (96906)	2,3,4, 5	EA	1									
XAFZZ		A029 C WASHER, FLAT MS15795-801 (96906)	4	EA	1									
MDFZZ		A030 C PLATE, IDENTIFICATION SCB635334 (96906)	1,2,3, 4,5	EA	1									
XAFZZ		A031 C ADHESIVE 11C (04347)	1,2,3, 4,5	TU	AR									
PAOZZ	9150-269-8255	A032 C GREASE, LUBRICANT MILG4343 (81349)	1,2,3, 4,5	TU	AR	*	*	*	*	*	*			
PAOZZ	5340-823-5197	A033 B STRAP ASSEMBLY SCC635307 (80063)	1,2,3, 4,5	EA	1	*	*	*	*	*	*		1-1 -10	
PAOFF	5855-089-7274	A034 B METASCOPE SU-43/U SCD635252 (80063)	1,2,3, 4,5	EA	1	*	*	*	*	*	*		2-3	
XAFZZ		A035 C HOUSING SCD635259 (80063)	1,2,3, 4,5	EA										
PAOZZ	6650-847-3492	A036 C EYESHIELD SCC623478 (80063)	1,2,3, 4,5	EA	1	*	*	*	*	*	*		2-3	
PAFZZ	6650-829-9740	A037 C LENS ASSY, OBJECTIVE SCC635284 (80063)	1,2,3, 4,5	EA	1	*	*	*	*	*	*		3-5	
XAFZZ		A038 D CELL, LENS, OBJECTIVE SCD635285 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A039 D LENS, DOUBLET, FRONT SCB635286 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A040 E LENS, OPTICAL SCC635287 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A041 E LENS, OPTICAL SCB635288 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A042 E ADHESIVE MILA3920 (81349)	1,2,3, 4,5	TU	AR									
XAFZZ		A043 D PACING, PREFORMED MS9021-019 (96906)	1,2,3, 4,5	EA	1									
XAFZZ		A044 D SPACER, OBJECTIVE SCB635289 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A045 D LENS, DOUBLET, REAR SCB635290-1 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A046 E LENS, OPTICAL SCB635291 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A047 E LENS, OPTICAL SCB635292 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A048 E ADHESIVE MILA3920 (81349)	1,2,3, 4,5	TU	1									
XAFZZ		A049 D RETAINER, LENS, OBJECTIVE SCB635293 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A050 D GREASE, LUBRICANT MILG4343 (81349)	1,2,3, 4,5	TU	AR									

SECTION III REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (CONTINUED)

(1) SRR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 90-DAY DS MAINT ALLOWANCE			(8) 1 YR ALW PER EQUIP CATEG	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATIONS	
					(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(d) FIG NO.	(e) ITEM NO. OR REFERENCE DESIGNATION
XAFZZ		A051 D SEALING COMPOUND MILS11030 (81349)	1,2,3, 4,5	EA	AR									
PAOFF	1090-075-4737	A052 C SWITCH ASSEMBLY SCC635294 (80063)	1,2,3, 4,5	EA	1	*	*	*	*	*	*	*	3-6	
XAFZZ		A053 D HOUSING SCC635295 (80063)	1,2,3, 4,5	EA	1									
PAPFF	5930-922-2682	A054 D SWITCH, CONTACT ASSEMBLY SCC635296 (80063)	1,2,3, 4,5	EA	1	*	*	*	*	*	*	*	3-6	
XAFZZ		A055 E CONTACT, ELECTRICAL SCB623509 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A056 E SWITCH, TOGGLE T20017-01 (81640)	1,2,3, 4,5	EA	1									
XAFZZ		A057 E WASHER, NON-METALIC SCB623508 (80063)	1,2,3, 4,5	EA	1									
PAPZZ	5930-633-6470	A058 E BOOT, DUST & MOISTURE SEAL N5030L (81640)	1,2,3, 4,5	EA	1	*	*	*	*	*	*	*	3-6	
XAFZZ		A059 D INSULATOR, BATTERY SCB623510 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A060 D SPRING, COMPRESSION SCB635302 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A061 D INSULATING COMPOUND MILS7502CLASSA2 (81349)	1,2,3, 4,5	CN	AR									
PAPZZ	5850-896-4038	A062 C CONTACT, ELECTRICAL SCC635253 (80063)	1,2,3, 4,5	EA	1	*	*	*	*	*	*	*	3-4	
PAPZZ	5855-179-4373	A063 C RING, RETAINING SCB635336 (80063)	1,2,3, 4,5	EA	1	*	*	*	*	*	*	*	3-5	
XAFZZ		A064 C CLIP, ELECTRICAL SCC635255-1 (80063)	1,2,3, 4,5	EA	1									
PAPZZ	5960-762-0103	A065 C ELECTRON TUBE, IMAGE CONV JAN6929 (81349)	1,2,3, 4,5	EA	1	*	*	*	*	*	*	*	3-4	
PCFZZ	5330-720-2947	A066 C PACKING, PREFORMED MS9021-029 (96906)	1,2,3, 4,5	EA	1	*	*	*	*	*	*	*	3-3	
PAPZZ	5850-896-4041	A067 C POWER SUPPLY SCC635256 (80063)	1,2,3, 4,5	EA	1	*	*	*	*	*	*	*	3-1	
XAFZZ		A068 C LENS ASSEMBLY, CORRECTOR SCB635304 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A069 D LENS, OPTICAL SCB635305 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A070 D SPACER, OPTICAL SCB635306 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A071 D ADHRSIVE EASTMAN 910 (03938)	1,2,3, 4,5	EA	1									
MDFZZ		A072 C PLATE, IDENTIFICATION SCB635333 (80063)	1,2,3, 4,5	EA	1									
XAFZZ		A073 C RING, ALIGNMENT SCC635255-2 (80063)	1,2,3, 4,5	EA	1									
PC0ZZ	5330-576-4974	A074 C PACKING, PREFORMED MS9021-121 (96906)	1,2,3, 4,5	EA	1	*	*	*	*	*	*	*	3-6	
PCFZZ	5330-558-2330	A075 C PACKING, PREFORMED MS9021-022 (96906)	1,2,3, 4,5	EA	1	*	*	*	*	*	*	*	3-5	
PAPFF	5855-922-5685	A076 C EYEPiece ASSEMBLY SCC635271 (80063)	2,3,4, 5	EA	1	*	*	*	*	*	*	*	3-4	

SECTION III REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (CONTINUED)

(1) SMP CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE	(4) USABLE ON CODE	(5) UNIT OF MEAS	(6) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1 YR ALW PER EQUIP CNTGNCY	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATIONS	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
						FFF		A077 C EYEPIECE ASSEMBLY 18805 (83003)	1	EA	1				
XAFZZ		A078 D SPRING, COMPRESSION SCB635272 (80063)	1, 2, 3, 4, 5	EA	1										
XAFZZ		A079 D RETAINER, EYELENS SCC635273 (80063)	2, 3, 4, 5	EA	1										
XAFZZ		A080 D RETAINER, EYELENS 22436 (83003)	1	EA	1										
XAFZZ		A081 D CELL ASSEMBLY SCC635274 (80063)	1, 2, 3, 4, 5	EA	1										
XAFZZ		A082 E CELL, OPTICAL SCC635275 (80063)	1, 2, 3, 4, 5	EA	1										
XAFZZ		A083 F LENS, OPTICAL SCC635276 (80063)	1, 2, 3, 4, 5	EA	1										
XAFZZ		A084 E SPACER SCB635277 (80063)	1, 2, 3, 4, 5	EA	1										
XAFZZ		A085 D LENS, OPTICAL ELEMENT SCC635278 (80063)	1, 2, 3, 4, 5	EA	1										
XAFZZ		A086 D SPRING, COMPRESSION SCC635337 (80063)	1, 2, 3, 4, 5	EA	1										
XAFZZ		A087 D LENS, ASPHERIC SCC635280 (80063)	1, 2, 3, 4, 5	EA	1										
XAFZZ		A088 D RETAINER, OPTICAL ELEMENT SCC635281 (80063)	1, 2, 3, 4, 5	EA	1										
XAFZZ		A089 D GASKET SCB635282 (80063)	1, 2, 3, 4, 5	EA	1										
XAFZZ		A090 D PACKING, PREFORMED MS9021-020 (96906)	1, 2, 3, 4, 5	EA	1										
XAFZZ		A091 D ADHESIVE MILA8248TYPEII (81349)	1, 2, 3, 4, 5	TU	AR										
XAFZZ		A092 D GREASE, LUBRICANT MILG4343 (81349)	1, 2, 3, 4, 5	TU	AR										
PAOZZ	9150-269-8255	A093 D GREASE, LUBRICANT MILG4343 (81349)	1, 2, 3, 4, 5	TU	AR	*	*	*	*	*	*	*			
PAOZZ	5855-010-5068	A094 B CASE, CARRYING SCD635251 (80063)	1, 2, 3, 4, 5	EA	1	*	*	*	*	*	*	*	1-1 -10		
HDFZZ		A095 B PLATE, IDENTIFICATION SCB635335 (80063)	1, 2, 3, 4, 5	EA	1										
PAFZZ	5310-996-0138	A096 * WASHER, FLAT MS15795-701 (96906)	1, 2, 3, 4, 5	EA	2	*	*	*	*	*	*	*			
PAFZZ	5320-119-6754	A097 * RIVET, SOLID MS20470A2-3 (96906)	1, 2, 3,	EA	2	*	*	*	*	*	*	*			

SECTION V INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS REFERENCE

TO FIGURE AND SEQUENCE NUMBER

FEDERAL STOCK NUMBER	FIGURE NUMBER	SEQUENCE NUMBER	REFERENCE NUMBER	MFG CODE	SEQUENCE NUMBER
1090-075-4737	3-6	A052	AN/PAS-6	80058	A001
5305-855-0726	2-2	A005	EASTMAN 910	03938	A071
5310-996-0135		A096	JAN6929	81349	A065
5320-119-6754		A007	MILA3920	81349	A042, A048
5330-252-6053	2-2	A009	MILG4343	81349	A013, A032, A050,
5330-558-2330	3-5	A075			A092, A093
5330-576-4974	3-6	A074	MILS11030	81349	A051
5330-584-1100	2-2	A010, A011	MILS7502CLASSA2	81349	A061
5330-584-1582	2-1	A017	MS15610-2	96906	A018
5330-720-2947	3-3	A066	MS15795-701	96906	A096
5340-823-5197	1-1 (-10)	A033	MS15795-801	96906	A029
5850-831-2911	2-1	A016	MS15795-804	96906	A027
5850-896-4038	3-4	A062	MS20470A@-3	96906	A097
5850-896-4041	3-1	A067	MS21318-2	96906	A028
5850-896-4044	2-1	A014	MS21318-21	96906	A026
5850-896-4045	2-1	A024	MS29513-140	96906	A009
5855-010-5068	1-1 (-10)	A094	MS51957-24	96906	A008
5855-089-7274	2-3	A034	MS9021-006	96906	A010, A011
5855-179-4373	3-5	A063	MS9021-019	96906	A043
5855-790-6197		A001	MS9021-020	96906	A090
5855-832-8796	2-1	A002	MS9021-022	96906	A075
5855-922-5685	3-4	A076	MS9021-029	96906	A066
5930-633-6470	3-6	A023, A058	MS9021-121	96906	A074
5930-898-5106	2-4 (-10)	A019	MS9021-130	96906	A017
5930-922-2682	3-6	A054	MX-7987/PAS-6	80058	A002
5960-762-C103	3-4	A065	N5030L	81640	A023, A058
6140-010-5232	2-2	A004	SC-B-623508	80063	A057
6210-848-7994	2-1	A015	SC-B-623509	80063	A055
6240-155-7786	2-1	A018	SC-B-623510	80063	A059
6650-829-9740	3-5	A037	SC-B-635272	80063	A078
6650-847-3492	2-3	A036	SC-B-635277	80063	A084
9150-269-8255		A013, A032, A050, A092, A093	SC-B-635282	80063	A089

SECTION V INDEX-FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS REFERENCE

TO SEQUENCE NUMBER

(CONTINUED)

SEQUENCE NUMBER	MFG. CODE	SEQUENCE NUMBER	REFERENCE NUMBER	MFG. CODE	SEQUENCE NUMBER
SC-B-635286	80063	A039	SC-C-635294	80063	A052
SC-B-6.35288	80063	A041	SC-C-635295	80063	A053
SC-B-635289	80063	A044	SC-C-635296	80063	A054
SC-B-635290-1	80063	A045	SC-C-635307	80063	A033
SC-B-635291	80063	A046	SC-C-635309	80063	A004
SC-B-635292	80083	A047	SC-C-635312	80063	A014
SC-B-635293	80063	A049	SC-C-635314	80063	A016
SC-B-635302	80063	A060	SC-C-635315	80063	A024
SC-B-635304	80063	A068	SC-C-635316	89063	A025
SC-B-635305	80363	A069	SC-C-635317	80063	A019
SC-B-635306	80063	A070	SC-C-635319	80063	A021
SC-B-635325	80063	A005	SC-C-635320	80063	A022
SC-B-635333	80063	A072	SC-C-635324	80063	A007
SC-B-635334	80063	A030	SC-D-635250	80063	A001
SC-B-635335	80063	A095	SC-D-635251	80063	A094
SC-B-635336	80063	A063	SC-D-635252	80063	A034
SC-B-635337	80063	A086	SC-D-635259	80063	A035
SC-C-623478	80063	A036	SC-D-635285	80063	A038
SC-C-635253	80063	A062	SC-D-635309	80063	A003
SC-C-635255-1	80063	A064	SC-D-635313	80063	A015
SC-C-635255-2	80063	A073	SC-D-635322	80063	A006
SC-C-635256	80063	A067	SU-43/U	80058	A034
SC-C-635271	80063	A076	TE3	76309	A020
SC-C-635273	80063	A079	T20017-01	81640	A056
SC-C-635274	80063	A081	11C	04347	A012, A031
SC-C-635275	80063	A082	18805	83003	A077
SC-C-635276	80063	A083	22436	83003	A080
SC-C-635278	80063	A085			
SC-C-635280	80063	A087			
SC-C-635281	80063	A086			
SC-C-635284	80063	A037			
SC-C-635287	80063	A040			

By Order of the Secretary of the Army:

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

Official:

VERNE L. BOWERS
Major General, United States Army
The Adjutant General

Distribution:

Active Army:

USASA (2)	Sig Dep (10)
CNGB (1)	Army Dep (2) except
ACSC-E (2)	SAAD (30)
Dir of Trans (1)	LBAD (14)
COE (1)	TOAD (14)
TSG (1)	ATAD (10)
DCSLOG (1)	LEAD (7)
USAARENBD (2)	NAAD (5)
USAMB (10)	SVAD (5)
USACDC (2)	ATS (1)
USACDCEC (10)	WRAMC (1)
USACDC Agcy (1)	MAAG (1)
AMC (1)	USARMIS (1)
USASTRATCOM (4)	USAERDAW (5)
MICOM (4)	USAERDAA (2)
TECOM (2)	USACRREL (2)
CONARC (5)	HISA (ECOM) (70)
ARADCOM (2)	Sig FLDMS (2)
ARADCOM Rgn (2)	Units org under fol TOE :—1 ea.
OS Maj Cored (4) except	1-47
USARJ (5)	6-575
USARAL (5)	6-577
LOGCOMD (5)	11-35
MDW (1)	11-38
Armies (2)	11-95
Corps (2)	11-117
Div (2)	11-158
Bde (1)	11-215
Inf Bn (1)	11-225
Armd Bn (1)	11-247
Inf Co (1)	11-500 (AA-AC)
Armd Co (1)	19-500 (AA-AE)
Instl (2) except	29-105
Ft Gordon (10)	29-134
Ft Huachuca (10)	29-407
Ft Carson (5)	37
WSMR (3)	37-42
Svc Colleges (2)	37-100
USASESS (10)	39-51
USAINTS (10)	57
USAARMS (10)	57-42
USAIS (10)	57-100
USAES (10)	57-102
USAADS (2)	67
USAFAS (2)	67-42
Gen Dep (2)	77-100
Sig Sec, Gen Dep (5)	

ARNG : State AG (3) ; Units—Same as Active Army except allowance is one (1) copy each.

USAR: None.

For explanation of abbreviations used, see AR 310-50.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



THEN...JOT DOWN THE
DOPE ABOUT IT ON THIS FORM.
CAREFULLY TEAR IT OUT, FOLD IT
AND DROP IT IN THE MAIL.

SOMETHING WRONG WITH PUBLICATION

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

PUBLICATION DATE

PUBLICATION TITLE

BE EXACT PIN-POINT WHERE IT IS

PAGE
NO.

PARA-
GRAPH

FIGURE
NO.

TABLE
NO.

IN THIS SPACE, TELL WHAT IS WRONG
AND WHAT SHOULD BE DONE ABOUT IT.

TEAR ALONG PERFORATED LINE

PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

THE METRIC SYSTEM AND EQUIVALENTS

WEIGHT MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 lb.
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches
 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
 1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

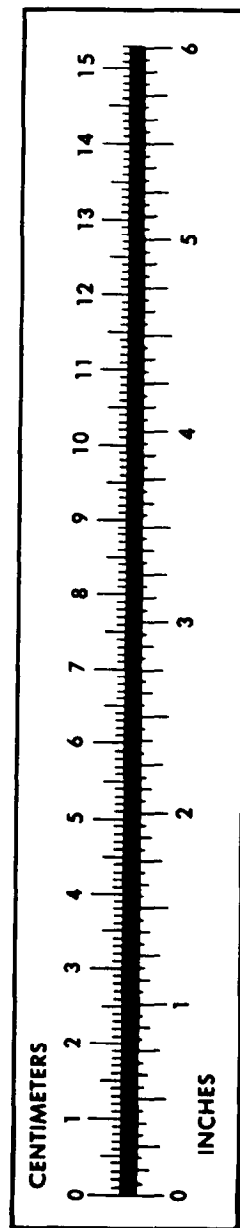
TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212° Fahrenheit is equivalent to 100° Celsius
 90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius
 $9/5^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
its	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
ers	Gallons	0.264
ms	Ounces	0.035
ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
ometers per Hour	Miles per Hour	0.621



PIN: 018636-000