TECHNICAL MANUAL

DIRECT SUPPORT AND

GENERAL SUPPORT

MAINTENANCE MANUAL INCLUDING

REPAIR PARTS AND

(INCLUDING DEPOT MAINTENANCE
REPAIR PARTS AND

SPECIAL TOOLS LIST)

SPECIAL TOOLS LIST

VOLUME I - TROUBLESHOOTING

VOLUME II - MAINTENANCE

SIGHT, INFINITY: 8635466

(1240-00-056-4854)

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WARNING

NITROGEN GAS UNDER PRESSURE

DEATH

or severe injury may result if personnel fail to observe safety precautions listed in Job Performance Guide 113-091-9000R.

LIST OF EFFECTIVE PAGES

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NOTE: The portions of the text affected by the changes is indicated in the outer margins of the page. Changes to illustrations are indicated by miniature pointing hands. Changes to wiring diagrams are indicated by shaded areas.

Dates of issue for original and changed pages are:

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Title			

^{*} Zero in this column indicates an original page.

Technical Manual No. 9-1240-322-34&P HEADQUARTERS, DEPARTMENT OF THE ARMY Washington, D.C., 7 July 1980

TECHNICAL MANUAL

DIRECT SUPPORT AND
GENERAL SUPPORT
MAINTENANCE MANUAL INCLUDING
REPAIR PARTS AND SPECIAL
TOOLS LIST (INCLUDING DEPOT
MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST)

INFINITY SIGHT: 8635466 (1240-00-056-4854)

Current as of 31 July 1980.

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know.

Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to:

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^{*}This manual supersedes DS/GS portion of TM 9-1240-322-35, August 1964 and TM 9-1240-322-35P, January 1970, including all changes.

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HOW TO USE THIS MANUAL

This manual has two volumes of maintenance information you will need to repair and service the 8635466 Infinity Sight.

- Volume I Troubleshooting
- Volume II Maintenance

The organization paragraph in each volume tells you what information you can find in each chapter and appendix.

There are four ways to find any maintenance information you need:

- Index on the front cover which tells what information is contained in each chapter
- Table of contents located at the front of the manual which has a complete listing by paragraph number and page number
- Fault Symptom Index (Vol I, Chap 3) which lists the fault symptoms and shows where to look to fix them
- Maintenance Task Index (Vol II, App B) which lists major assemblies, subassemblies and paragraph numbers of all maintenance procedures

Before doing any maintenance, you should read and understand HOW TO TROUBLESHOOT on page 1-2, If you do not know the equipment well, you should read the section on description and data (Vol II, Chap 1).

Throughout the manual reference is made to a Job Performance Guide 113-091-9000R (JPG 41C) which helps you to develop skills in doing the maintenance tasks.

TECHNICAL MANUAL

DIRECT SUPPORT AND
GENERAL SUPPORT
MAINTENANCE MANUAL INCLUDING
REPAIR PARTS AND SPECIAL
TOOLS LIST (INCLUDING DEPOT
MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST)

VOLUME I - TROUBLESHOOTING SIGHT, INFINITY: 8635466

CHAPTER 1

INTRODUCTION

1-1. SCOPE

This volume contains troubleshooting requirements and procedures for direct support and general support (DS/GS) maintenance of the 8635466 Infinity Sight. See Volume II for maintenance procedures.

1-2. ORGANIZATION

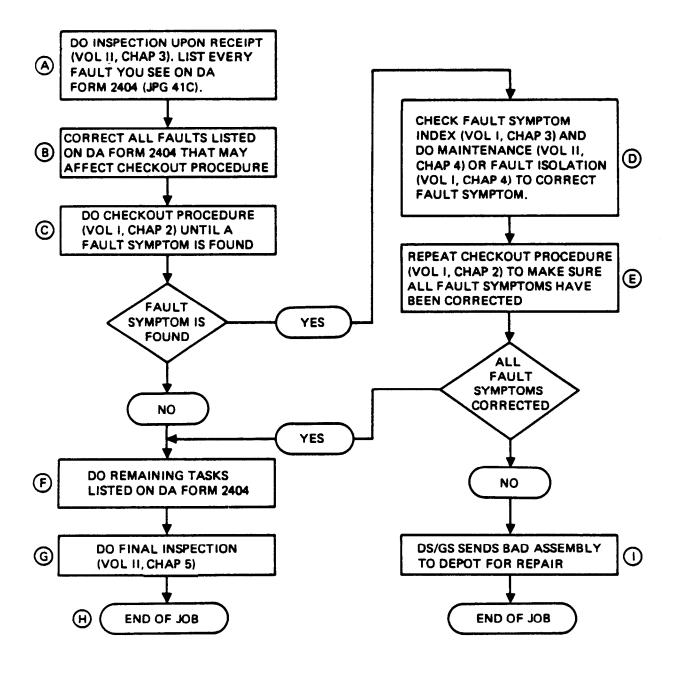
- a. Chapter 2, Checkout Procedure, gives you flow charts to follow to check that the Infinity Sight is working right.
- b. Chapter 3, Fault Symptom Index, lists the fault symptoms and where to look in this manual to fix each one.
- c. Chapter 4, Fault Isolation Procedures, shows you step-by-step how to troubleshoot the fault symptoms found in Chapter 3.
- d. Appendix A, Wiring Diagram, may be used to help you find the cause of a fault. The diagram can be used to trace signal flow or to find out what a voltage should be.

1-3. HOW TO TROUBLESHOOT

The following steps tell you how to troubleshoot. A diagram of these steps is on page 1-3.

- A Do a visual check and list any faults on DA Form 2404 before making repairs. See Vol II, Chap 3 for what to check for.
- **B** If you see any faults that may affect the checkout procedure, fix them now. This does not mean small things like painting scratches.
- O the checkout procedure in Vol I, Chap 2 from the beginning until you find a fault symptom.
- When a fault is found, go to the chapter noted and follow the maintenance procedure given there. If you already know the fault, look at the fault symptom index in Chapter 3 of this volume. This will also tell you what to do.
- **E** After the bad part has been repaired or replaced, do the checkout procedure in Chapter 2 again. This is to make sure the new part has fixed the problem.
- F) If all the faults are now corrected, do the maintenance tasks on DA Form 2404.
- **6** Do the final inspection given in Vol II, Chap 5.
- (H) The job is over and the good assembly is sent back to service.
- If all faults were not corrected after step E, the bad assembly is sent back to the depot for repair.

The sample fault isolation procedure (para 1-5) shows you how to use the flow charts in this volume.



1-4. TEST EQUIPMENT

Test Equipment	National Stock Number (NSN)	Test	Reference
1. Multimeter	6625-00-964-2629	a. Resistance	JPG 41C
2. 0-50 VDC power supply	6130-00-435-1116	b. VoltageCheckout of InfinitySight	JPG 41C

1-5. SAMPLE FAULT ISOLATION PROCEDURE

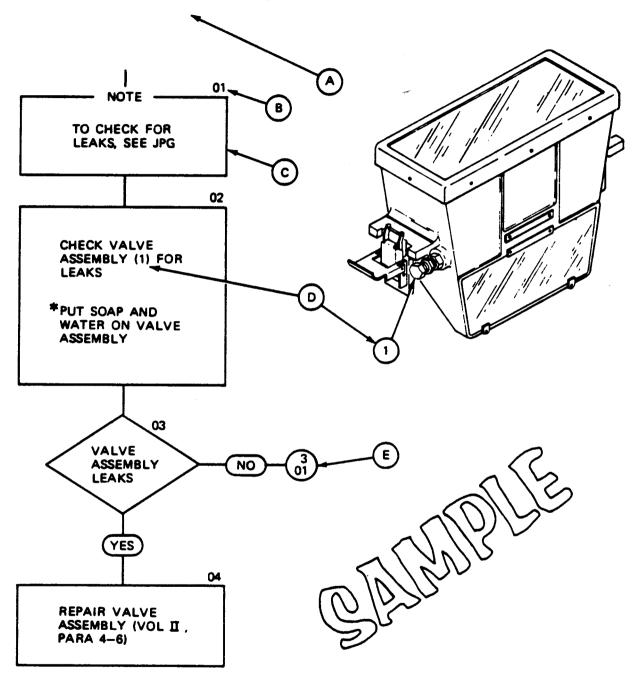
The sample fault isolation procedure tells you how to use the flow charts in Chapters 2 and 4.

Callouts	Description
A	This is the symptom shown in the Fault Symptom Index in Chapter 3.
(A) (B)	Block number. Tells you the number of the block on the page. Block numbers start over at every page.
©	This is a note. It gives useful information that can help you in doing the procedure. A note will always come just before the step of the procedure that it is about.
	A warning will be labeled at top of block. Always follow the instruction in this kind of block carefully: If you don't you may be injured or injure someone else.
	A caution will also be labeled at top of block. The instructions in this kind of block tell you what to do so you will not damage equipment. Be sure you always follow caution instructions carefully.
0	Index numbers are found in the procedures and the illustration to help you find the connector, switch, knob, etc. The illustration will always be on the same or an opposite page. Remember you will never have to turn the page to find the illustration.
Ē	The circle is used to send you to another sheet of procedure to keep on troubleshooting. The top number in the circle tells you what sheet to go to. The bottom number tells you what block on that sheet to start with. For example: 3

1 - 4 **Vol I**

1-5. SAMPLE FAULT ISOLATION PROCEDURE (CONT)

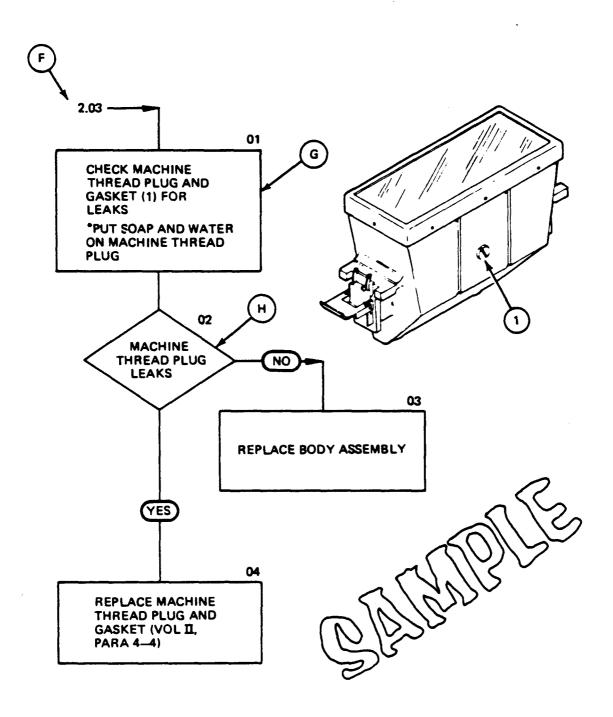
4-3. VIEW IS NOT CLEAR (SHEET 2 OF 3)



1-5. SAMPLE FAULT ISOLATION PROCEDURE (CONT)

Callouts	Description.
F	This tells you where you came from. For example 2.03 means you came from sheet 2, block 03.
©	The top part of the box tells you what to do. The bottom part tells you how to do it. After you become more skilled at troubleshooting and know more about the equipment, you may find that you only need to read the top part of the box.
H	This diamond shaped box is called a decision point. It asks you to answer a YES or NO question after doing the what-to-do statement. If the answer is YES, you should go down the YES branch. If the answer is NO, you should go down the NO branch.

- 1-5. SAMPLE FAULT ISOLATION PROCEDURE (CONT)
- 4-3. VIEW IS NOT CLEAR (SHEET 3 OF 3)



CHAPTER 2 CHECKOUT PROCEDURE

2-1. SCOPE

Checkout of the Infinity Sight is done by using the flow chart procedures in this chapter. You must do the checkout procedure from the beginning until a fault symptom is found. When it is, go to the fault symptom index in Chapter 3. After you have corrected the fault, start at the beginning again and do the checkout procedure until the Infinity Sight is working correctly.

2-2. CHECKOUT (SHEET 1 OF 9)

TEST EQUIPMENT: 0-50 VDC power supply

Multimeter

PERSONNEL One

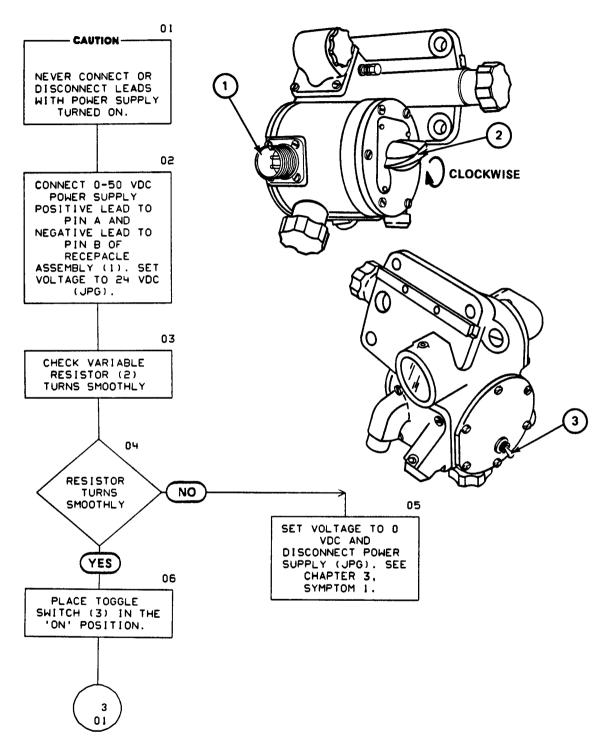
REFERENCES: JPG 41C for: Using power supply

Using multimeter

EQUIPMENT CONDITION: Infinity sight on work bench

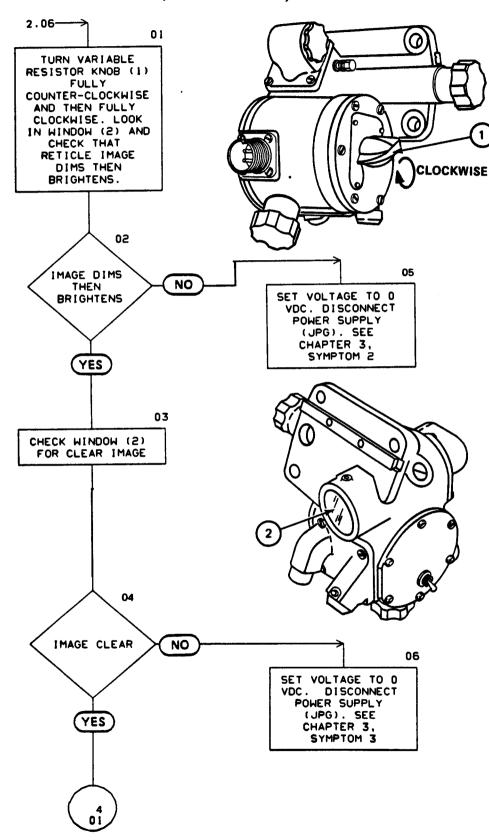
PRELIMINARY PROCEDURES: Do inspection upon receipt (Vol II, para 3-2)

2-2. CHECKOUT (SHEET 2 OF 9)

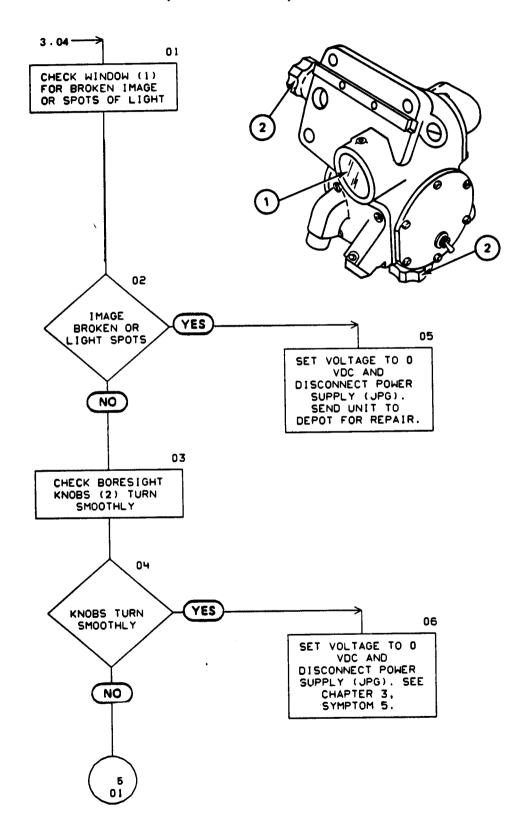


2 - 2

2-2. CHECKOUT (SHEET 3 OF 9)



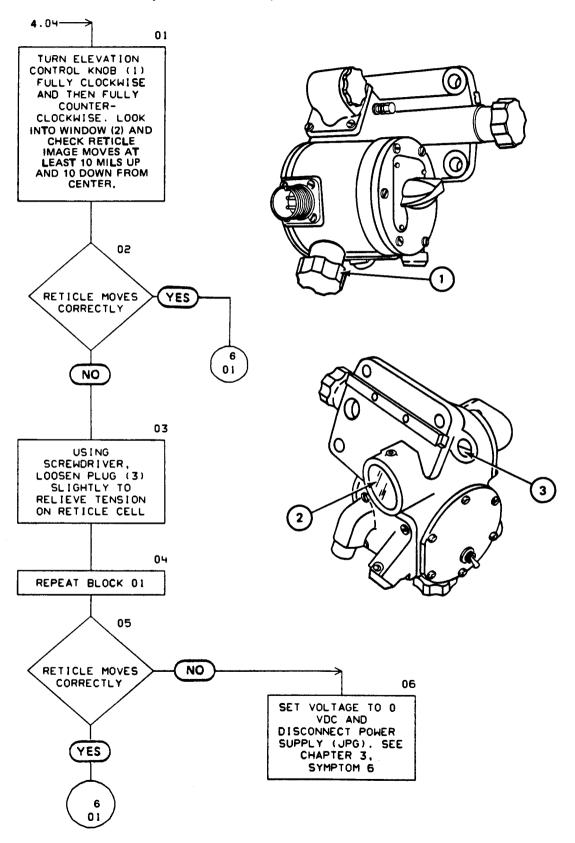
2-2. CHECKOUT (SHEET 4 OF 9)



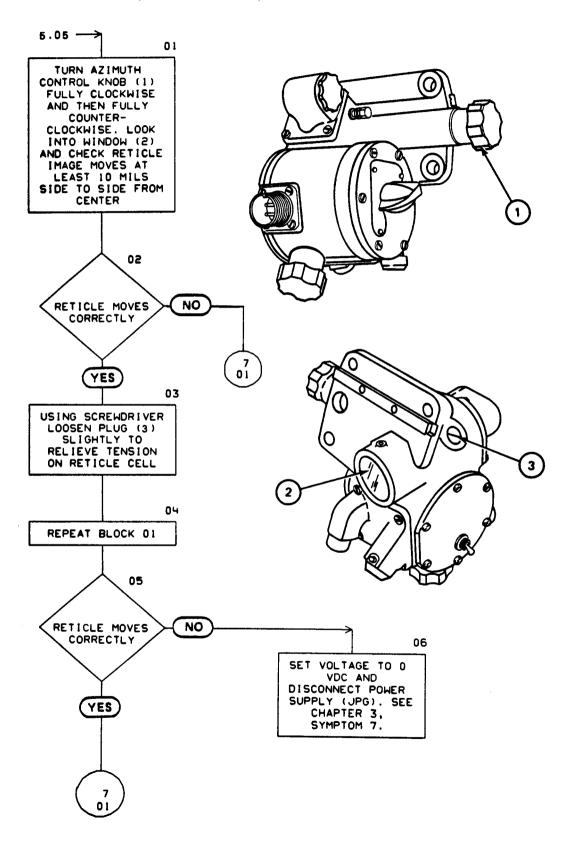
Para 2-2 (Sheet 4 of 9)

2 - 4

2-2. CHECKOUT (SHEET 5 OF 9)



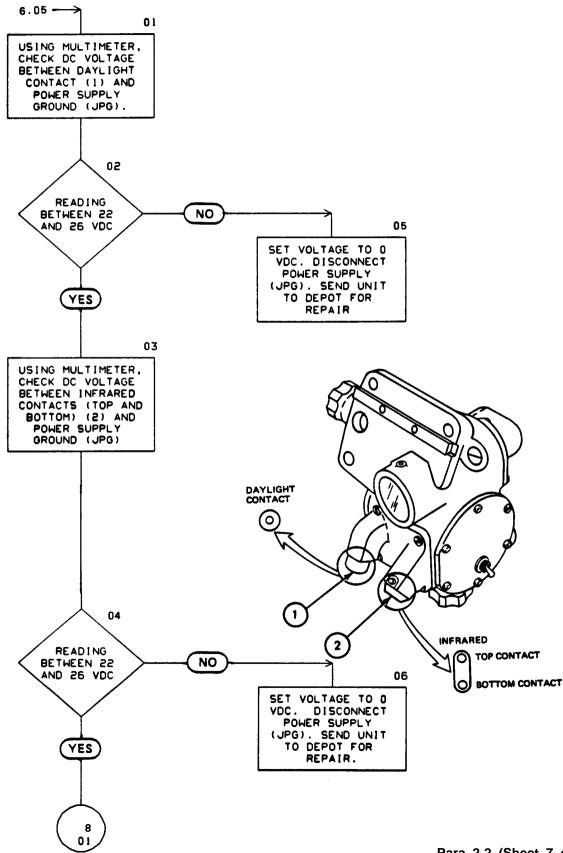
2-2. CHECKOUT (SHEET 6 OF 9)



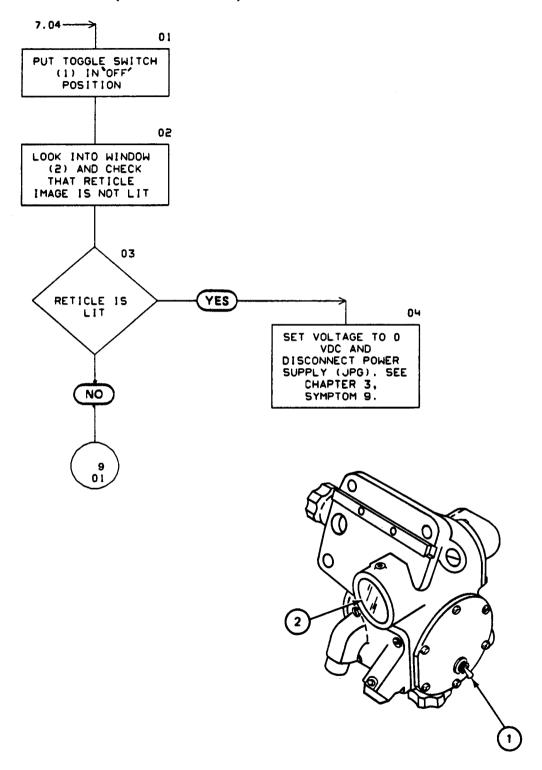
Para 2-2 (Sheet 6 of 9)

2 - 6

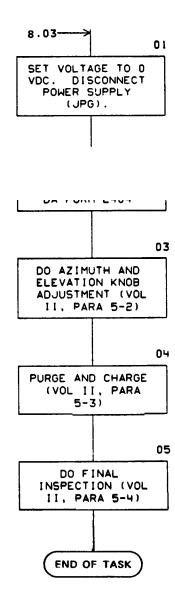
2-2. CHECKOUT (SHEET 7 OF 9)



2-2. CHECKOUT (SHEET 8 OF 9)



2-2. CHECKOUT (SHEET 9 OF 9)



CHAPTER 3 FAULT SYMPTOM INDEX

	Symptom	Fault Isolation Procedure or Maintenance Procedure		
1.	Variable resistor does not turn smoothly	Replace variable resistor (Vol II, para 4-18)		
2.	Reticle image cannot be seen	Paragraph 4-2		
3.	Image not clear or pressure cannot be held in unit	Purge and charge unit (Vol II, para 5-3)		
4.	Image broken or spots of light	Send unit to depot for repair		
5.	Boresight knobs do not turn smoothly	Disassemble and replace boresight knobs. (Vol II, para 4-30 or 4-33)		
6.	Elevation knob does not move reticle image properly	Replace elevation knob (Vol II, para 4-30)		
7.	Azimuth knob does not move reticle image properly	Replace azimuth knob (Vol II, para 4-33)		
8.	No voltage at contacts	Send unit to depot for repair		
9.	Reticle stays lit with toggle switch in "OFF" position	Replace toggle switch (Vol II, para 4-24)		

CHAPTER 4

FAULT ISOLATION PROCEDURES

4-1. SCOPE

This chapter gives step-by-step procedures to troubleshoot the fault symptom found during checkout. After you correct the fault symptom, do the checkout procedure in Chapter 2 again. This is to make sure all fault symptoms are repaired.

4-2. RETICLE IMAGE CANNOT BE SEEN (SHEET 1 OF 8)

TEST EQUIPMENT 0-50 VDC power supply Multimeter

TOOLS: #2 cross tip screwdriver (Phillips type)

SUPPLIES: Sealing compound (Item 4, App. A, Vol II)

Solder (item 5, App. A, Vol II)

PERSONNEL: One

REFERENCES: TM 9-2350-215-10 for replacing lamp

JPG 41C for: Using power supply

Cleaning terminals and contacts

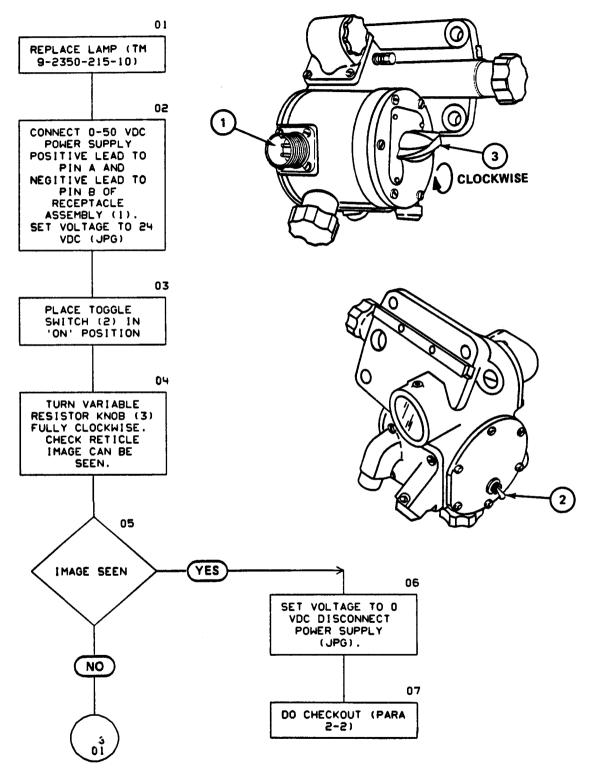
Using multimeter

Putting on sealing compound

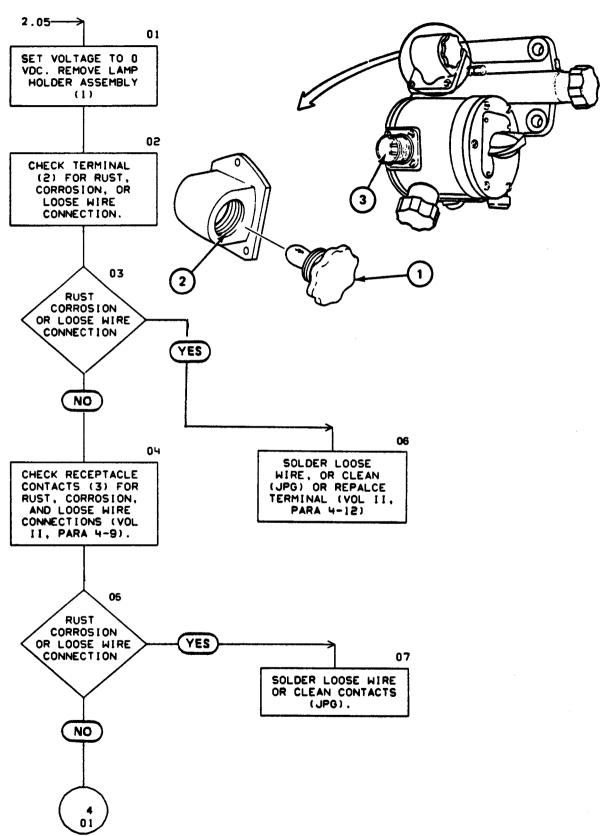
Soldering

EQUIPMENT CONDITION: Infinity sight on work bench; power disconnected

4-2. RETICLE IMAGE CANNOT BE SEEN (SHEET 2 OF 8)

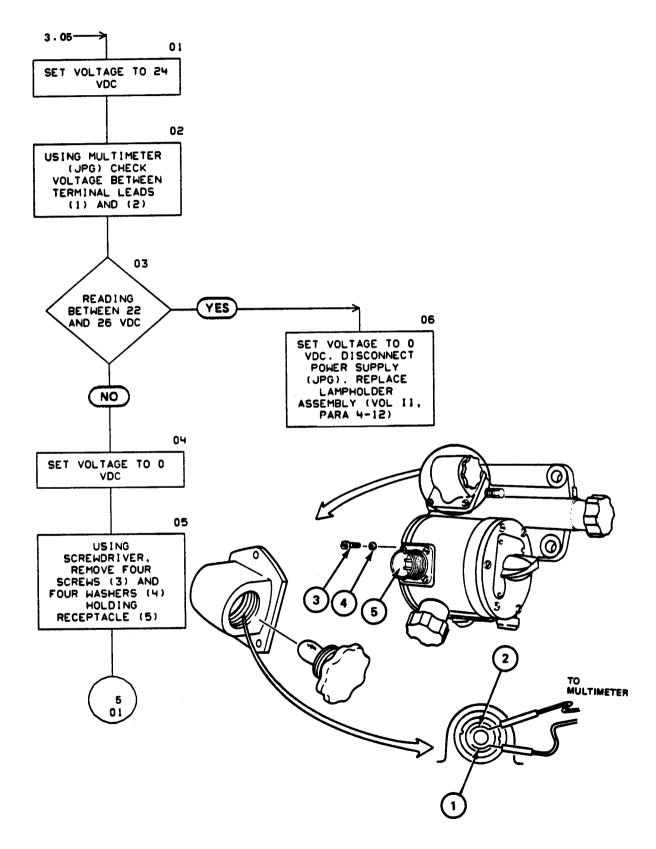


4-2. RETICLE IMAGE CANNOT BE SEEN (SHEET 3 OF 8)



Para 4-2 (Sheet 3 of 8)

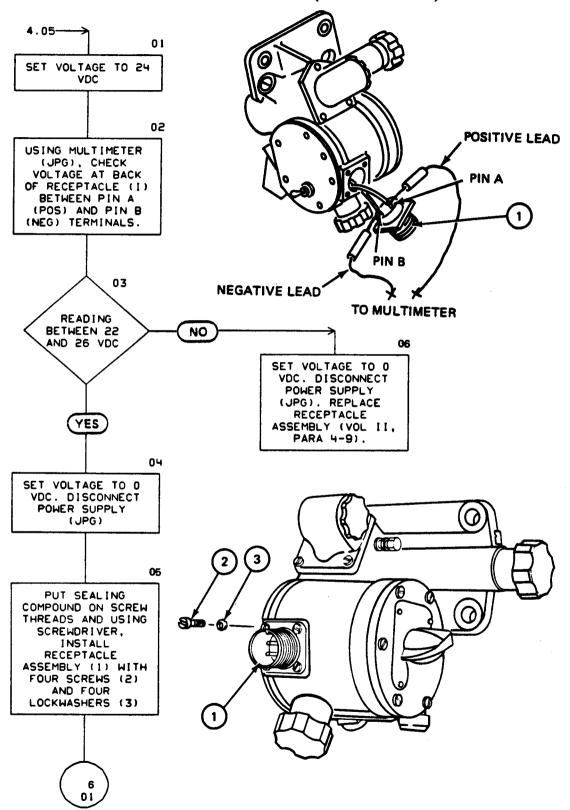
4-2. RETICLE IMAGE CANNOT BE SEEN (SHEET 4 OF 8)



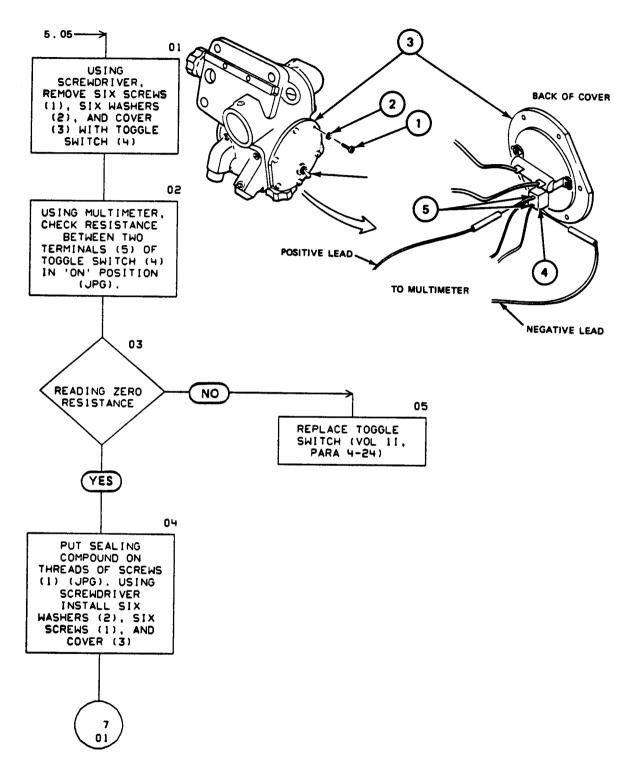
Para 4-2 (Sheet 4 of 8)

4 - 4

4-2. RETICLE IMAGE CANNOT BE SEEN (SHEET 5 OF 8)

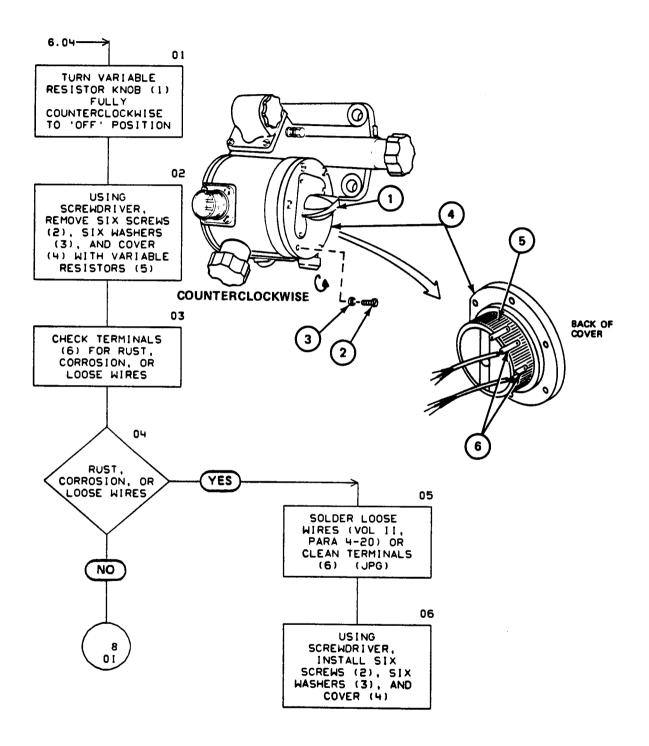


4-2. RETICLE IMAGE CANNOT BE SEEN (SHEET 6 OF 8)

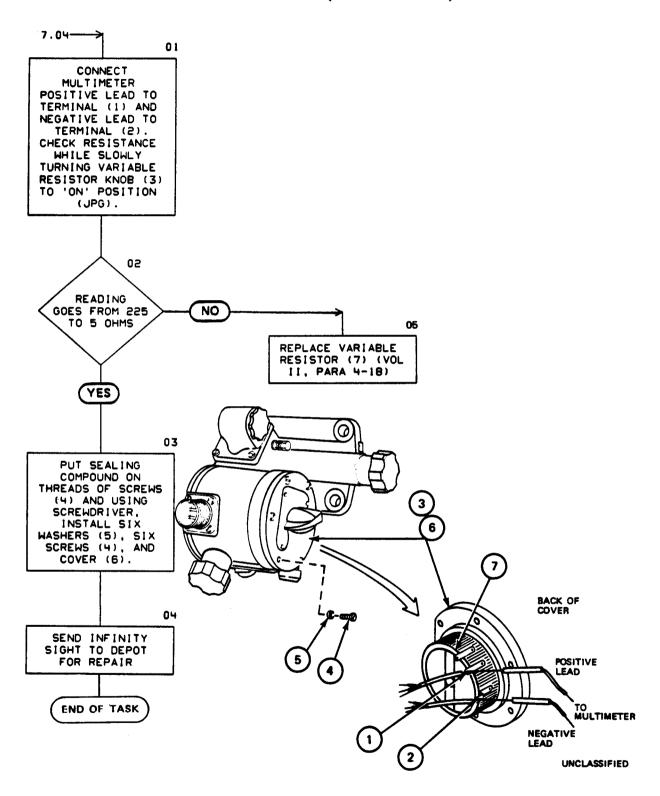


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4-2. RETICLE IMAGE CANNOT BE SEEN (SHEET 7 OF 8)



4-2. RETICLE IMAGE CANNOT BE SEEN (SHEET 8 OF 8)



4-3. IMAGE NOT CLEAR OR PRESSURE CANNOT BE HELD IN UNIT (SHEET 1 OF 5)

TOOLS: 5/64" socket head screw key (Allen wrench or equivalent)

#2 cross tip screwdriver (Phillips type)

3/8" flat tip screwdriver 7/16" open end wrench

SUPPLIES: Soap

Sealing compound (item 4, App. A, Vol. II)

PERSONNEL: One

REFERENCES: JPG 4lC for: Checking for leaks

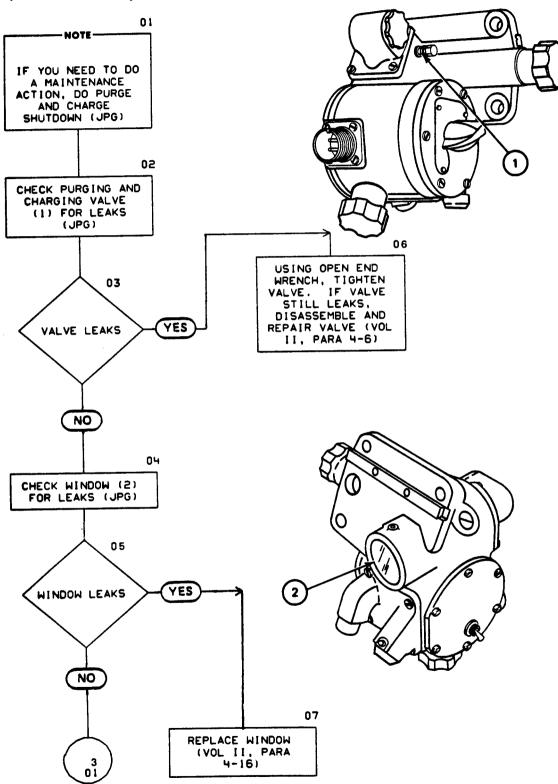
Sealing

Purge and charge shutdown

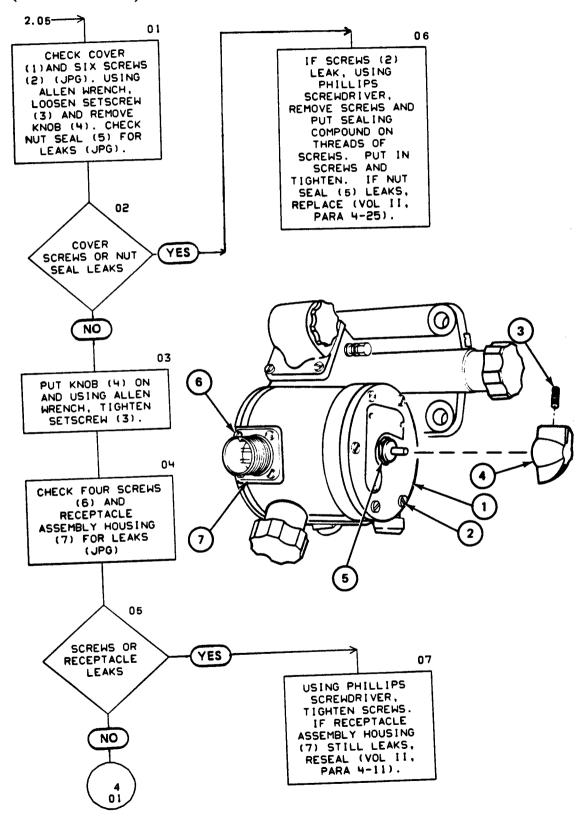
EQUIPMENT CONDITION: Infinity sight on work bench; power disconnected

PRELIMINARY PROCEDURES: Purge and charge infinity sight (Vol II, para 5-3)

4-3. IMAGE NOT CLEAR OR PRESSURE CANNOT BE HELD IN UNIT (SHEET 2 OF 5)

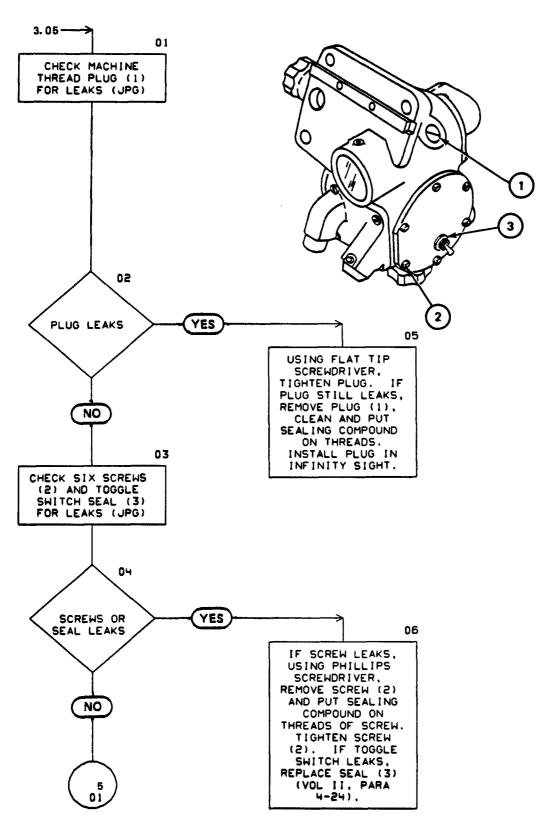


4-3. IMAGE NOT CLEAR OR PRESSURE CANNOT BE HELD IN UNIT (SHEET 3 OF 5)



Para 4-3 (Sheet 3 of 5)

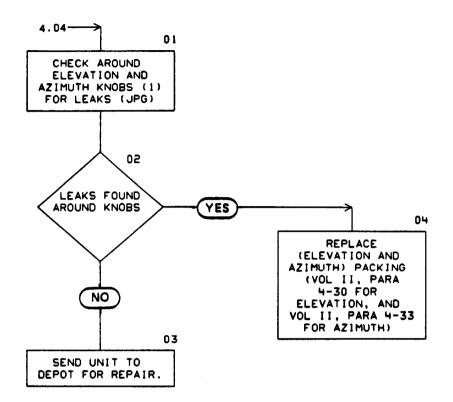
4-3. IMAGE NOT CLEAR OR PRESSURE CANNOT BE HELD IN UNIT (SHEET 4 OF 5)

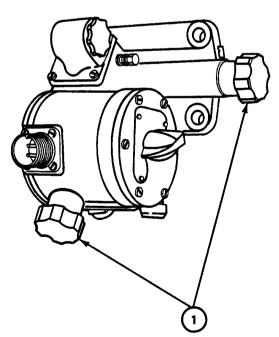


Para 4-3 (Sheet 4 of 5)

4 - 12

4-3. IMAGE NOT CLEAR OR PRESSURE CANNOT BE HELD IN UNIT (SHEET 5 OF 5)

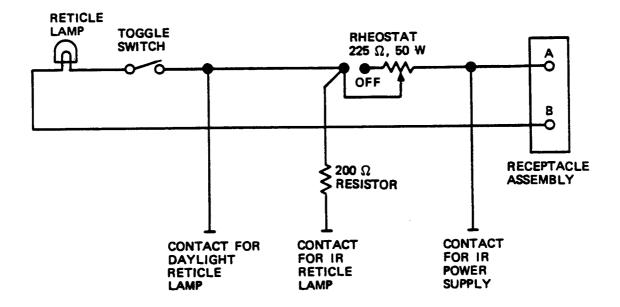




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APPENDIX A WIRING DIAGRAM

INFINITY SIGHT SCHEMATIC DIAGRAM



TECHNICAL MANUAL

DIRECT SUPPORT AND
GENERAL SUPPORT
MAINTENANCE MANUAL INCLUDING
REPAIR PARTS AND SPECIAL
TOOLS LIST (INCLUDING DEPOT
MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST)

VOLUME II - MAINTENANCE SIGHT, INFINITY: 8635466

CHAPTER 1

INTRODUCTION

Section 1. GENERAL

1-1. SCOPE

This volume contains the maintenance requirements and procedures for direct support and general support (DS/GS) maintenance for the 8635466 Infinity Sight. See Volume I for troubleshooting procedures.

1-2. ORGANIZATION

- a. Chapter 2, General Maintenance Information, lists the maintenance items and references other procedures that are necessary to do the maintenance in this manual.
- b. Chapter 3, Inspection Upon Receipt, gives the kind of defects to look for when the Infinity Sight is returned to DS/GS. A complete inspection should be made and faults listed on DA Form 2404 before any repairs are made.
- c. Chapter 4, Maintenance Procedures, give step-by-step procedures to repair faults found during inspection or troubleshooting.
- d. Chapter 5, Final Inspection, gives procedures to be done after repair to make sure that the Infinity Sight works.
 - e. Chapter 6, Packaging, gives procedures for packaging the Infinity Sight for storage or shipment.
- f. Appendix A, Expendable Supplies and Materials List, lists the supplies and materials needed to repair the Infinity Sight.
- g. Appendix B, Maintenance Task Index, helps you find the necessary maintenance tasks for the Infinity Sight.
- h. Appendix C, Repair Parts and Special Tools List, gives a listing of repair parts, special tools, and support equipment required for the performance of direct support, general support, and depot maintenance of the infinity sight.

Section 2. DESCRIPTION AND DATA

1-3. DESCRIPTION

Infinity Sight 8635466 is used to project a lighted reticle image into periscope M32 and periscope M35, in the fire control system of the M60, M60A1, and M728 tanks. The reticle image is used as a sighting reference for a machine gun. The infinity sights' mounting surface attaches to the front of the Periscope Mount M118.

The optical system is contained within the base housing (1) and includes a reticle, a lens assembly, and a window (2) sealed in position to keep the infinity sight protected against dirt, dust, and moisture.

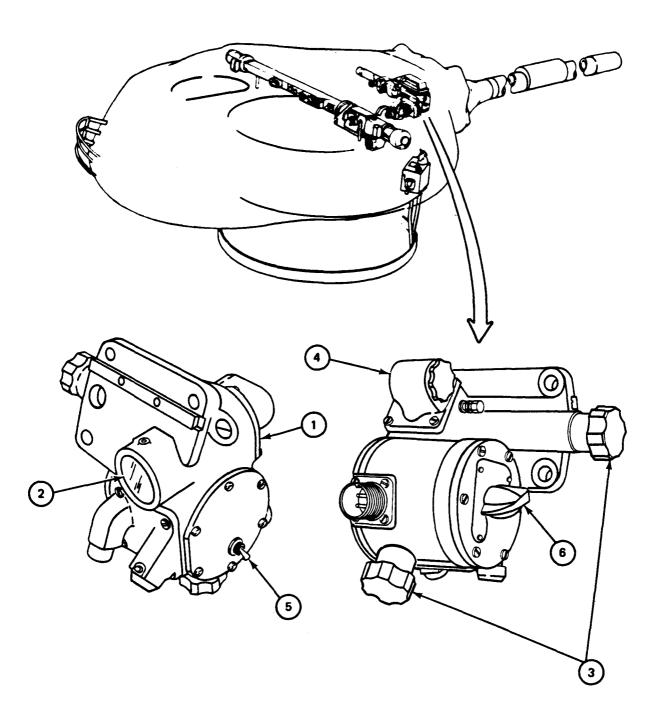
The boresight system is contained within the base housing (1). Rotation of the azimuth and elevation boresight knobs (3) causes the reticle to be adjusted in deflection and elevation.

The lighting system has a lamp assembly (4), a toggle switch (5), and a variable resistor (6). The lamp assembly (4) shines light on the reticle. The toggle switch (5) turns the power to the lamp assembly (4) on or off. The variable resistor (6) varies the power to the lamp assembly (4). Turning the variable resistor clockwise turns the lamp on and increases the amount of light on the reticle. Turning the variable resistor (6) counterclockwise decreases the amount of ligh on the reticle and turns the lamp off.

1-2 **Vol II**

Para 1-3

1-3. DESCRIPTION (CONT)



1-4. TABULATED DATA

Height	7 in. (approx.)
Width	7 in. (approx.)
Length	7 in. (approx.)
Weight	4-3/4 lb.
Illuminated circle	20 mils diam
Lamp voltage	24 volts dc
Dump tomes and a contract the c	

CHAPTER 2

GENERAL MAINTENANCE INFORMATION

Section 1. GENERAL

2-1. SCOPE

This chapter tells you what special tools and test equipment are needed to repair the Infinity Sight and where to find other information for the maintenance procedures in this volume.

Section 2. REFERENCE DOCUMENTS

2-2. GENERAL MAINTENANCE

General maintenance procedures for fire control materiel are in TM 9-254 and Job Performance Guide 113-091-9000R (JPG 41C).

2-3. CLEANING

General cleaning procedures are in JPG 41C.

2-4. PAINTING

General painting procedures are in TM 43-0139.

2-5. SEALING

General instructions for how to use sealing compounds are in JPG 4lC.

2-6. LUBRICATION

General instructions for how to use lubricants are in JPG 41C.

Section 3. SAFETY PROCEDURES

Vol II

2-7. GENERAL PROCEDURE

General safety procedures are in AR 385-40 Safety: Accident Reporting and Records.

Safety procedures for using power supplies and nitrogen tanks are in JPG 4lC.

Para 2-1 2-1

Section 4. SPECIAL TOOLS AND TEST EQUIPMENT

2-8. TOOLS AND TEST EQUIPMENT

The following special tools and test equipment are used to repair the Infinity Sight.

Item	National Stock Number (NSN)	Part Number (FSCM)	Use
Purging kit, fire control	4931-00-065-1110	SC 4931-95-CL-J54	Purge and charge instruments
2. Torque Adaptor	1240-00-015-6693	8570134	Final inspection
3. Torque Wrench	5120-00-541-3001		Final inspection

CHAPTER 3

INSPECTION UPON RECEIPT

3-1. **SCOPE**

This chapter gives procedures to check the Infinity Sight for faults you can see when it is received in the DS/GS shop. It also tells you what part of this volume to go to for various repairs. A complete inspection should be made and all faults listed on DA Form 2404 before taking any maintenance actions.

3-2. INSPECTION UPON RECEIPT

TOOLS: 9/16", 3/8" and 7/16" open end wrench

3/8" flat tip screwdriver .050", 9/64", 3/32" and 5/64" socket head screw key (Allen wrench

or equivalent) Valve core wrench

1 and #2 cross tip screwdriver (Phillips type)

SUPPLIES: Lens tissue (item 6, App. A)

Paint (item 2, App. A) Primer (item 3, App. A)

PERSONNEL: One

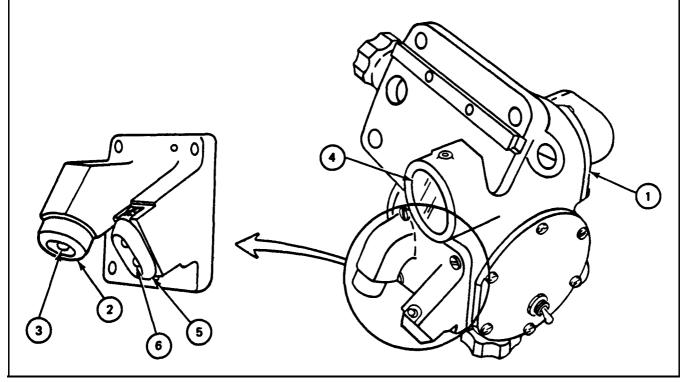
REFERENCES: TM 43-0139 for painting

JPG 41C for: Cleaning

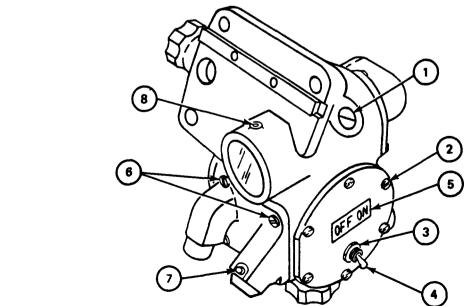
Completing DA Form 2404

EQUIPMENT CONDITION: Infinity sight on work bench

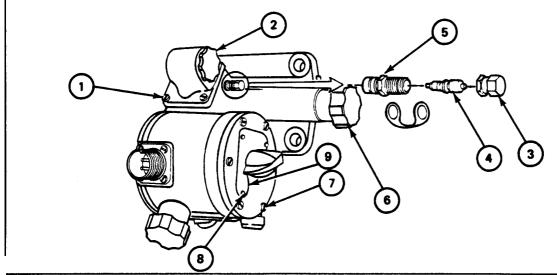
Step	Procedure	Maintenance Action	Reference
1.	Check body (1) for cracks or dents.	If cracks or dents are found, do purging and charging procedure. If leaks are present, tell your supervisor.	Para 5-3
2.	Check that rubber boot (2) is not damaged.	If damaged, tell your supervisor.	
3.	Check that contact (3) is not burned or corroded.	If burned or corroded, tell your supervisor.	
4.	Check window (4) for cracks, scratches, dirt, or abuse.	Using lens paper, clean dirt and lint from exterior of lens. If cracks or scratches are found, replace.	JPG 41C Para 4-15
5.	Check that rubber boot (5) is not damaged.	Replace.	Para 4-27
6.	Check that two contacts (6) are not burned or corroded. GO TO FRAME 2	If burned or corroded, tell your supervisor.	



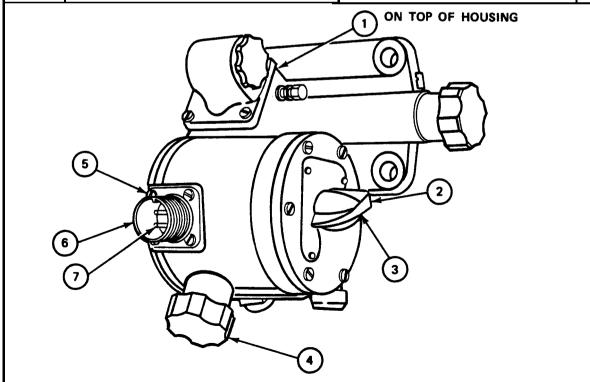
Step	Procedure	Maintenance Action	Reference
1.	Using 3/8" screwdriver, check that plug (1) is tight.	Tighten. Replace if missing.	
2.	Using #2 Phillips screwdriver, check that six screws (2) are tight.	Tighten. Replace if missing.	
3.	Using 9/16" open end wrench, check that nut (3) is tight.	Tighten. Replace if missing.	
4.	Check that toggle switch (4) moves to ON/OFF positions without binding.	Replace switch.	Para 4-24
5.	Check that ON/OFF decal (5) can be read.	If decal cannot be read, tell your supervisor.	
6.	Using #2 Phillips screwdriver, check that four screws (6) are tight.	Tighten. Replace if missing.	
7.	Using #1 Phillips screwdriver, check that two screws (7) are tight.	Tighten. Replace if missing.	
8.	Using .050" Allen wrench, check that setscrew (8) is tight.	Tighten. Replace if missing.	
	GO TO FRAME 3		



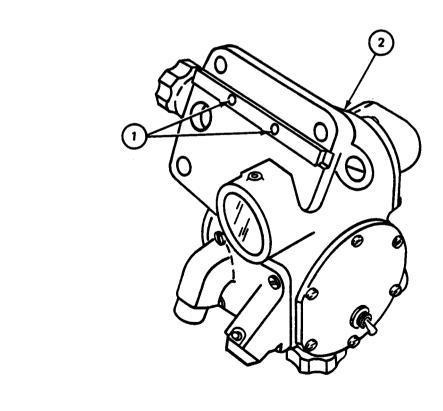
Step	Procedure	Maintenance Action	Reference
1.	Using #2 Phillips screwdriver, check that three screws (1) are tight.	Tighten. Replace if missing.	
2.	Using fingers, check that lamp assembly (2) is tight.	Tighten. Replace if missing.	Para 4-12
3.	Using 3/8" wrench, remove cap (3). Using valve core wrench, check that valve core (4) is tight and seated. Valve stem should be straight. Using 7/16" wrench, check that stem (5) is tight. Using 3/8" wrench, install cap (3).	Tighten valve. If cap or valve is missing, replace. If valve stem is bent, replace. Tighten stem if loose.	Para 4-6
4.	Check that knob (6) turns from stop to stop without binding.	Replace.	Para 4-33
5.	Using #2 Phillips screwdriver, check that six screws (7) are tight.	Tighten. Replace if missing.	
6.	Using #1 Phillips screwdriver, check that three screws (8) are tight.	Tighten. Replace if missing.	
7.	Check that identification plate (9) can be read.	If identification tdate cannot be read, tell your supervisor.	
	GO TO FRAME 4		



Step	Procedure	Maintenance Action	Reference
1.	Using 3/32" Allen wrench, check that setscrew (1) is tight.	Tighten. Replace if missing.	
2.	Using 5/64" Allen wrench, check that setscrew (2) in knob (3) is tight.	Tighten. Replace if missing.	
3.	Check that knob (3) turns from stop to stop without binding.	Replace.	Para 4-18
4.	Check that knob (4) turns from stop to stop without binding.	Replace.	Para 4-30
5.	Using #2 Phillips screwdriver, check that four screws (5) are tight.	Tighten. Replace if missing.	
6.	Check receptacle (6) for dents and damaged threads.	Replace.	Para 4-9
7.	Check that two pins (7) are not burned or missing.	Replace.	Para 4-9
	GO TO FRAME 5		



Step	Procedure	Maintenance Action	Reference
1.	Using 9/64" Allen wrench, check that two screws (1) are tight.	Tighten. Replace if missing.	
2.	Check body (2) for dirt, chipped or scratched paint and corrosion.	Clean, paint if needed.	JPG 41C TM 43-0139
	NOTE		
	FOLLOW-ON MAINTENANCE		
	Correct faults listed on DA Form 2404 that may affect the checkout procedure. Do checkout procedure (Vol I, para 2-2).		
	END OF TASK		



CHAPTER 4 MAINTENANCE PROCEDURES

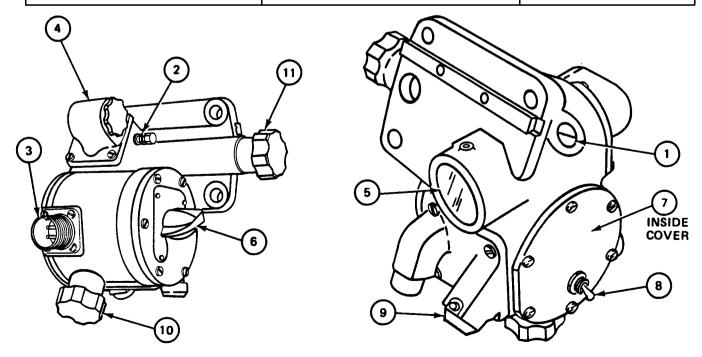
Section 1. GENERAL

4-1. SCOPE

This chapter gives maintenance procedures for the Infinity Sight.

4-2. LIST OF INFINITY SIGHT ITEMS CONTAINED IN THIS CHAPTER

Item	Figure Index No.	Reference (para)
Machine Thread Plug	1	4-3
Valve Assembly	2	4-6
Receptacle Assembly	3	4-9
Lamp Assembly	4	4-12
Observation Window	5	4-15
Variable Resistor	6	4-18
Fixed Resistor	7	4-21
Toggle Switch	8	4-24
Boot and Insulator	9	4-27
Elevation Boresight Knob	10	4-30
Azimuth Boresight Knob	11	4-33



Section 2. MACHINE THREAD PLUG

4-3. MACHINE THREAD PLUG MAINTENANCE PROCEDURES INDEX

Task	Reference (para)
Removal	4-4
Installation	4-5

4-4. MACHINE THREAD PLUG REMOVAL

TOOLS: 3/8" flat tip screwdriver

PERSONNEL: One

EQUIPMENT CONDITION: Infinity sight on work bench

Step Procedure 1. Using screwdriver, remove plug (1), spring (2), and plunger (3) from infinity sight housing (4). END OF TASK

4-5. MACHINE THREAD PLUG INSTALLATION

TOOLS: 3/8" flat tip screwdriver

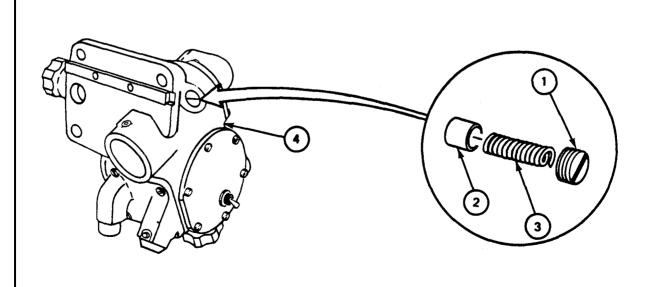
SUPPLIES: Sealing compound (item 4, App. A)

PERSONNEL: One

REFERENCES: JPG 41C for using sealing compound

EQUIPMENT CONDITION: Infinity sight on work bench

Step	Procedure	
1.	Put small amount of sealing compound on plug (1) threads (JPG).	
2.	Using screwdriver, install plunger (2), spring (3), and plug (1) into infinity sight housing (4).	
	NOTE	
	FOLLOW-ON MAINTENANCE	
	Do checkout procedure (Vol I, para 2-2).	
	END OF TASK	



Section 3. VALVE ASSEMBLY

VALVE ASSEMBLY MAINTENANCE PROCEDURES INDEX 4-6.

Step	Procedure
Removal	4-7
Installation	4-8

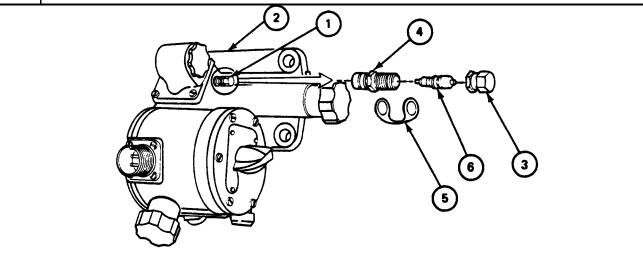
4-7. VALVE ASSEMBLY REMOVAL

TOOLS: 3/8" and 7/16" open end wrench Valve core wrench

PERSONNEL: One

EQUIPMENT CONDITION: Infinity sight on work bench

Step	Procedure
1.	Using 7/16" open end wrench, remove valve assembly (1) from infinity sight housing (2).
2.	Using 3/8" open end wrench, remove cap (3) from valve stem (4).
3.	Remove nylon strap (5) from cap (3) and valve stem (4).
4.	Using valve core wrench, remove valve core (6) from valve stem (4).
	END OF TASK



4-8. **VALVE ASSEMBLY INSTALLATION**

TOOLS: 7/16" and 3/8" openend wrench Valve core wrench

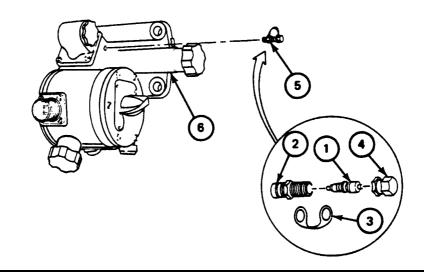
Sealing compound (item 4, App. A) SUPPLIES:

PERSONNEL: One

REFERENCES: JPG 4lC for using sealing compound

EQUIPMENT CONDITION: Infinity sight on work bench

Step	Procedure
1.	Using valve core wrench, install valve core (1) in valve stem (2).
2.	Install nylon strap (3) on valve stem (2) and cap (4).
3.	Using 3/8" open end wrench, install cap (4) on valve stem (2).
4.	Put small amount of sealing compound on threads of stem (2) (JPG).
5.	Using 7/16" open end wrench, install valve assembly (5) into infinity sight housing (6).
	NOTE
	FOLLOW-ON MAINTENANCE
	Do checkout procedure (Vol I, para 2-2).
	END OF TASK



Section 4. RECEPTACLE ASSEMBLY

4-9. RECEPTACLE ASSEMBLY MAINTENANCE PROCEDURES INDEX

Task	Reference (para)
Removal	4-10
Installation	4-11

4-10. RECEPTACLE ASSEMBLY REMOVAL

TOOLS: #2 cross tip screwdriver (Phillips type)

Soldering iron

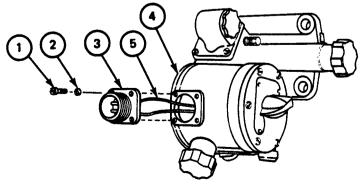
PERSONNEL: One

REFERENCES: JPG 41C for: Tagging wires

Unsoldering wires

EQUIPMENT CONDITION: Infinity sight on work bench

Step	Procedure	
1.	Using screwdriver, remove four screws (1) and four washers (2) from receptacle assembly (3).	
2.	Carefully remove receptacle assembly (3) from infinity sight housing (4).	
3.	Tag two wires (5) connected to terminals of receptacle assembly (3) (JPG).	
4.	Using soldering iron, unsolder two wires (5) from terminals of receptacle assembly (3) (JPG).	
	END OF TASK	



4-11. RECEPTACLE ASSEMBLY INSTALLATION

TOOLS: #2 cross tip screwdriver (Phillips type)

Soldering iron

SUPPLIES: Solder (item 5, App. A)

Sealing compound (item 4, App. A)

PERSONNEL: One

REFERENCES: JPG 41C for: Soldering wires

Using sealing compound

EQUIPMENT CONDITION: Infinity sight on work bench

FRAME 1

Step Procedure

Using soldering iron, solder two wires (1) (tagged during removal procedure) to terminals of receptacle assembly (2) (JPG).

Put a small amount of sealing compound on threads of four screws (3) and receptacle (2) (JPG).

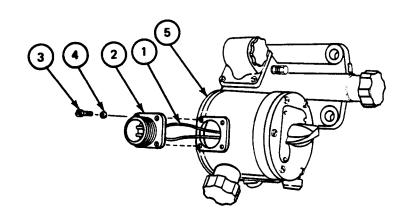
Using screwdriver, install four washers (4), four screws (3), and receptacle assembly (2) into infinity sight housing (5).

NOTE

FOLLOW-ON MAINTENANCE

Do checkout procedure (Vol I, para 2-2).

END OF TASK



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Section 5. LAMP ASSEMBLY

4-12. LAMP ASSEMBLY MAINTENANCE PROCEDURES INDEX

Task	Reference (para)
Disassembly	4-13
Assembly	4-14

LAMP ASSEMBLY DISASSEMBLY 4-13.

TOOLS: 53/64" tubular spanner wrench #2 cross tip screwdriver (Phillips type)

Soldering iron

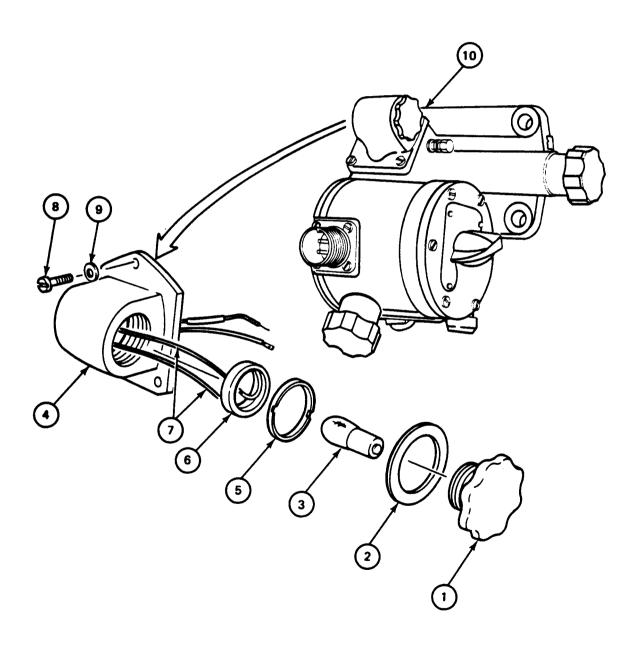
PERSONNEL: One

REFERENCES: JPG 41C for:

Tagging wires Unsoldering wires

EQUIPMENT CONDITION: Infinity sight on work bench

Step	Procedure	
1.	Using fingers, remove lampholder assembly (1), gasket (2) and lamp (3) from lamp assembly housing (4).	
2.	Using wrench, remove ring (5). Carefully pull out terminal (6) from lamp assembly housing (4).	
3.	Tag two wires (7) connected to terminal (6) (JPG).	
4.	Using soldering iron, unsolder two wires from terminal (6) (JPG).	
5.	Using screwdriver, remove three screws (8) and three washers (9) from lamp assembly housing (4).	
6.	Remove lamp assembly housing (4) from infinity sight housing (10).	
	END OF TASK	



4-14. LAMP ASSEMBLY ASSEMBLY

TOOLS: #2 cross tip screwdriver (Phillips type)

53/64" tubular spanner wrench

Soldering iron

SUPPLIES: Solder (item 5, App. A)

Sealing compound (item 4, App. A)

PERSONNEL: One

REFERENCES: JPG 41C for: Soldering wires

Using sealing compound

EQUIPMENT CONDITION: Infinity sight on work bench

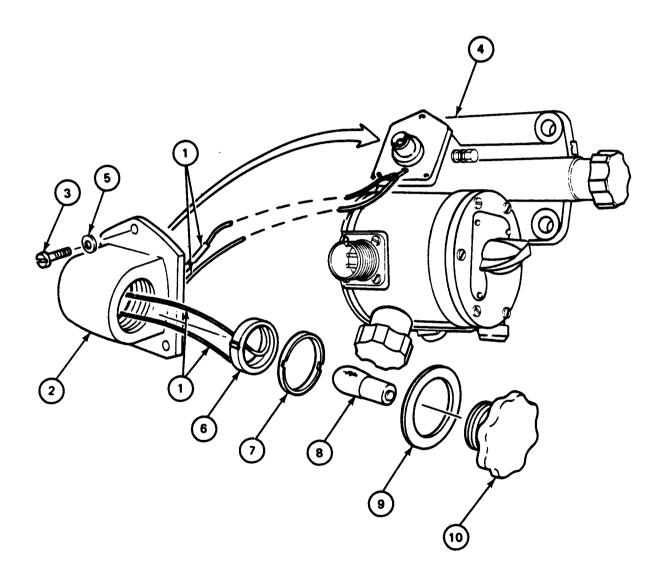
FRAME 1

Step		Procedure
1.	Thread	d two wires (1) through lamp assembly housing (2).
2.		nall amount of sealing compound on threads of three screws (3) and lamp bly housing (2) (JPG).
3.		holding lamp assembly housing (2) in place on infinity sight housing (4), using driver, install three washers (5) and three screws (3).
4.	(6) (JI	soldering iron, solder wires (1) (tagged during disassembly procedure) to terminal PG). Align key on terminal (6) with key slot in lamp assembly housing (2). Push al (6) into lamp assembly housing (2). Make sure terminal seats on shoulder.
5.	Using	wrench, install ring (7) into lamp assembly housing (2).
6.		fingers, install lamp (8), gasket (9) and lampholder assembly (10) into lamp bly housing (2).
		NOTE
		FOLLOW-ON MAINTENANCE
		Do checkout procedure (Vol I, para 2-2).
	END	OF TASK

Para 4-14

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4-14. LAMP ASSEMBLY ASSEMBLY (CONT)



4 - 11

Vol II

Section 6. OBSERVATION WINDOW

4-15. OBSERVATION WINDOW MAINTENANCE PROCEDURES INDEX

Task	Reference (para)
Removal	4-16
Installation	4-17

4-16. OBSERVATION WINDOW REMOVAL

TOOLS: 0.597" adjustable pin-faced spanner wrench 3/16" flat tip screwdriver

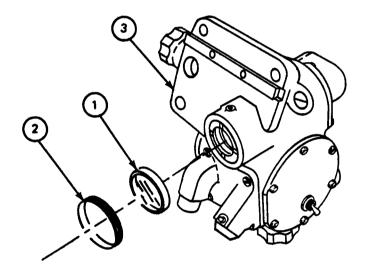
PERSONNEL: One

REFERENCES: JPG 41C for care of optics

EQUIPMENT CONDITION: Infinity sight on work bench

FRAN	ME 1	
Step	Step Procedure	
		Window (1) will break if handled rough or damaged. Handle window (1) with extreme care. Do not smear or put your hand on window (1). To keep from scratching window, do not place window (1) on rough surface.
1.	Using	wrench, remove ring (2) from infinity sight housing (3).
2.		screwdriver, carefully pry window (1) from infinity sight housing (3). OF TASK

4-16. OBSERVATION WINDOW REMOVAL (CONT)



4-17. OBSERVATION WINDOW INSTALLATION

TOOLS: 0.597" adjustable pin-faced spanner wrench

SUPPLIES: Sealing compound (item 4, App. A)

PERSONNEL: One

REFERENCES: JPG 41C for: Cleaning optics

Handling optics

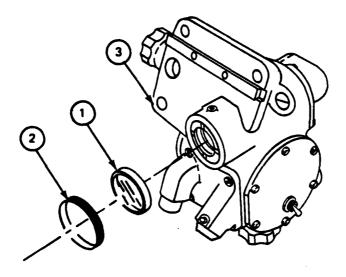
Using sealing compound

EQUIPMENT CONDITION: Infinity sight on work bench

FRAN	ME 1	
Step		Procedure
		CAUTION Window (1) will break if handled rough or damaged.
		Handle window (1) with extreme care. Do not smear or put your hand on window (1). To keep from scratching window, do not place window (1) on rough surface.
1.	Clean	window (1) (JPG).
2.	Apply	sealing compound to the edge of window (1) (JPG).
3.	Using	wrench, install window (1) and ring (2) into infinity sight housing (3).
		NOTE
		FOLLOW-ON MAINTENANCE
		Do checkout procedure (Vol I, para 2-2).
	END (OF TASK

4 - 1 4

4-17. OBSERVATION WINDOW INSTALLATION (CONT)



Section 7. VARIABLE RESISTOR

4-18. VARIABLE RESISTOR MAINTENANCE PROCEDURES INDEX

Task	Reference (para)
Removal	4-19
Installation	4-20

4-19. VARIABLE RESISTOR REMOVAL

TOOLS: #2 cross tip screwdriver (Phillips type)

5/64" socket head screw key (Allen-wrench or equivalent) 5/8" open end wrench

Soldering iron

PERSONNEL: One

REFERENCES: JPG 41C for: Tagging wires

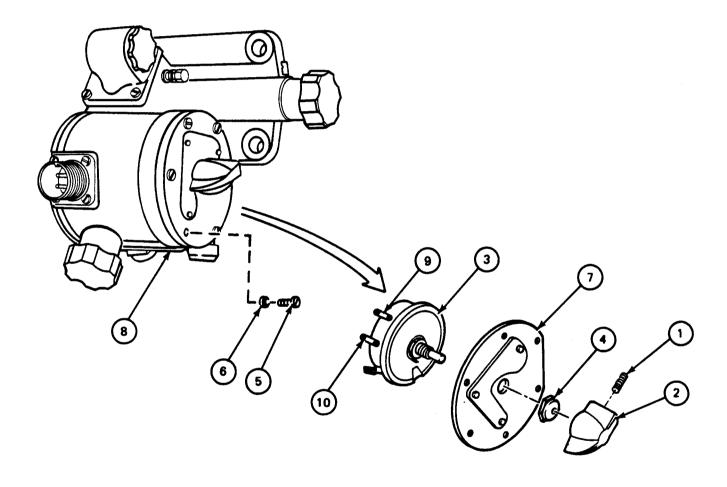
Unsoldering wires

EQUIPMENT CONDITION: Infinity sight on work bench

FRAME 1

Step	Procedure
1.	Using Allen wrench, loosen setscrew (1) and remove knob (2) from variable resistor (3).
2.	Using open end wrench, remove nut (4) from variable resistor (3).
3.	Using screwdriver, remove six screws (5) and six washers (6) from cover (7).
4.	Remove cover (7) from infinity sight housing (8).
5.	Carefully lift variable resistor (3) from housing (8).
6.	Using soldering iron, tag and unsolder wires from terminal (9) (JPG).
7.	Using soldering iron, tag and unsolder wires from terminal (10) (JPG).
	END OF TASK

4-19. VARIABLE RESISTOR REMOVAL (CONT)



4-20. VARIABLE RESISTOR INSTALLATION

TOOLS: #2 cross tip screwdriver (Phillips type)
5/64" socket head screw key (Allen wrench or equivalent)
5/8" open end wrench

Soldering iron

SUPPLIES: Solder (item 5, App. A)

Sealing compound (item 4, App. A)

PERSONNEL: One

REFERENCES: JPG 4lC for: Soldering wires

Using sealing compound

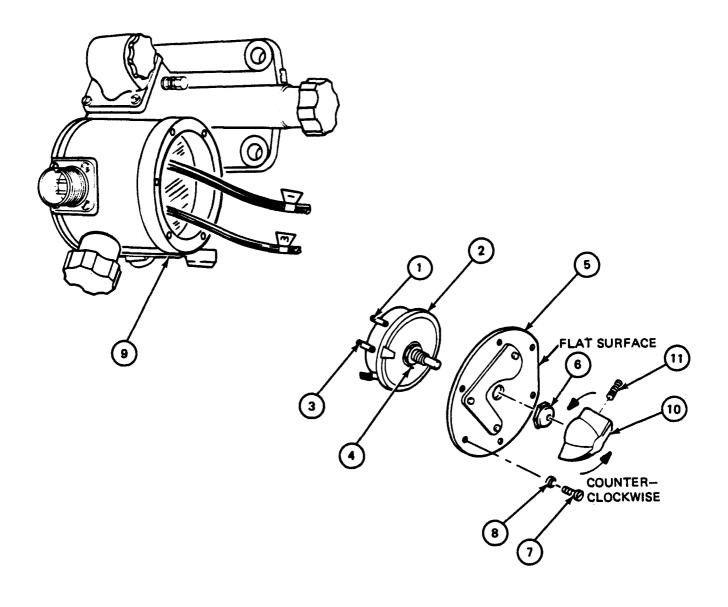
EQUIPMENT CONDITION: Infinity sight on work bench

FRAME 1

Step	Procedure
1.	Using soldering iron, solder wires (tagged during removal procedure) to terminal (1) of variable resistor (2) (JPG).
2.	Using soldering iron, solder wires (tagged during removal procedure) to terminal (3) of variable resistor (2) (JPG).
	NOTE
	Make sure that prong (4) is put into the hole on the back side of cover (5).
3.	Place cover (5) on variable resistor (2).
4.	Using open end wrench, install nut (6) on variable resistor (2).
5.	Put small amount of sealing compound on threads of six screws (7) and cover (5) (JPG).
6.	Using screwdriver, install six washers (8) and six screws (7) into cover (5) and infinity sight housing (9).
7.	Install knob (10) on variable resistor (2) and using Allen wrench, tighten setscrew (11).
8.	Turn knob (10) fully counterclockwise to OFF position.
	NOTE
	FOLLOW-ON MAINTENANCE
	Do checkout procedure (Vol I, para 2-2).
	END OF TASK
4	1

Para 4-20

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Section 8. FIXED RESISTOR

4-21. FIXED RESISTOR MAINTENANCE PROCEDURES INDEX

Task	Reference (para)
Removal	4-22
Installation	4-23

4-22. FIXED RESISTOR REMOVAL

TOOLS: #2 cross tip screwdriver (Phillips type)

Soldering iron

PERSONNEL: One

REFERENCES: JPG 41C for: Tagging wires

Unsoldering wires

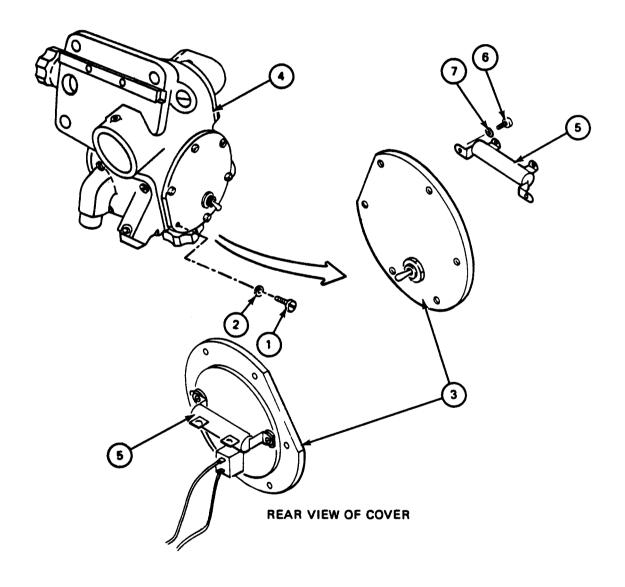
EQUIPMENT CONDITION: Infinity sight on work bench

FRAME 1

Step	Procedure
1.	Using screwdriver, remove six screws (1) and six washers (2) from cover (3).
2.	Carefully pull cover (3) from infinity sight housing (4).
3.	Using soldering iron, tag and unsolder two wires from fixed resistor (5) (JPG).
4.	Using screwdriver, remove two screws (6), two washers (7) and fixed resistor (5) from cover (3).
	END OF TASK

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4-22. FIXED RESISTOR REMOVAL (CONT)



4-23. FIXED RESISTOR INSTALLATION

TOOLS: #2 cross tip screwdriver (Phillips type)

Soldering iron

SUPPLIES: Solder (item 5, App. A)

Sealing compound (item 4, App. A)

PERSONNEL: One

REFERENCES: JPG 41C for: Soldering wires

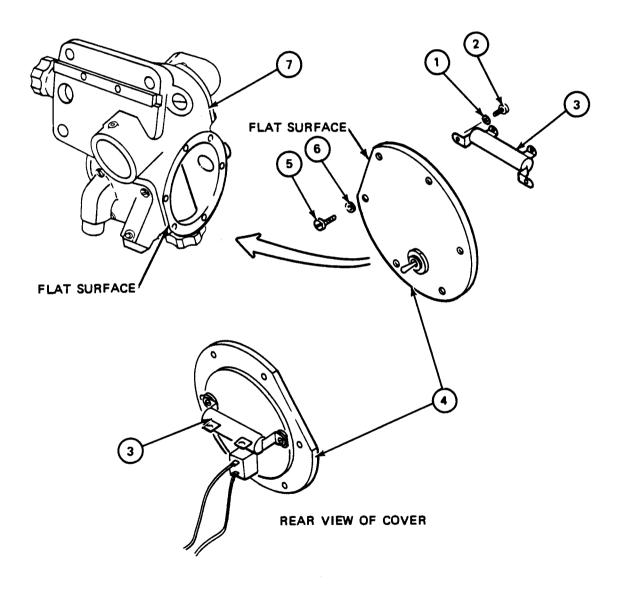
Using sealing compound

EQUIPMENT CONDITION: Infinity sight on work bench

FRAME 1

I IXAI	VIII I	
Step		Procedure
1.	Using of cov	screwdriver, install two washers (1), two screws (2) and fixed resistor (3) on back er (4).
2.	Using (3) (J.	soldering iron, solder two wires (tagged during removal procedure) to fixed resistor PG).
3.	Put a (JPG).	small amount of sealing compound on threads of six screws (5) and cover (4)
4.		screwdriver, install six washers (6) and six screws (5) while holding cover (4) in on infinity sight housing (7) with flat surfaces lined up.
		NOTE
		FOLLOW-ON MAINTENANCE
		Do checkout procedure (Vol I, para 2-2).
	END	OF TASK

4-23. FIXED RESISTOR INSTALLATION (CONT)



Section 9. TOGGLE SWITCH

4-24. TOGGLE SWITCH MAINTENANCE PROCEDURES INDEX

Task	Reference (para)
Removal	4-25
Installation	4-26

4-25. TOGGLE SWITCH REMOVAL

TOOLS: #2 cross tip screwdriver (Phillips type) 9/16" open end wrench

Soldering iron

PERSONNEL: One

REFERENCES: JPG 41C for: Tagging wires

Unsoldering of wires

EQUIPMENT CONDITION: Infinity sight on work bench

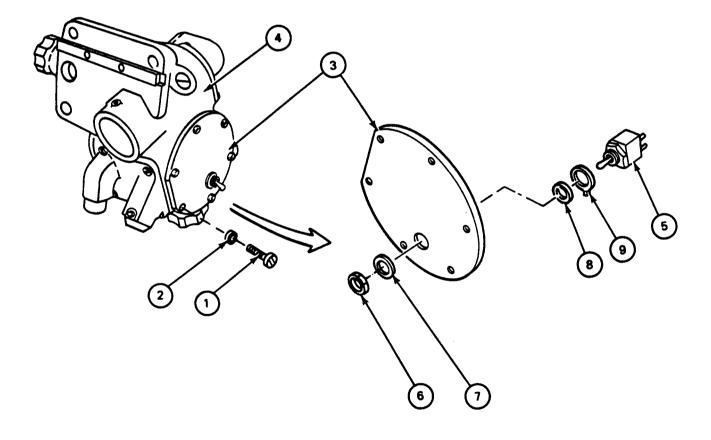
FRAME 1

	<u> </u>
Step	Procedure
1.	Using screwdriver, remove six screws (1) and six washers (2) from cover (3).
2.	Carefully remove cover (3) from infinity sight housing (4).
3.	Tag two wires connected to terminals of toggle switch (5) (JPG).
4.	Using soldering iron, unsolder two wires from terminals of toggle switch (5) (JPG).
5.	Using wrench, remove nut (6) and washer (7) and toggle switch (5) from cover (3).
6.	Remove toggle switch (5) from cover (3).
7.	Remove seal (8) and keyed washer (9) from toggle switch (5).
	END OF TASK

Para 4-24

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4-25. TOGGLE SWITCH REMOVAL (CONT)



TOGGLE SWITCH INSTALLATION 4-26.

TOOLS: #2 cross tip screwdriver (Phillips type) 9/ 16" open end wrench

Soldering iron

Solder (item 5, App. A) SUPPLIES:

Sealing compound (item 4, App. A)

PERSONNEL: One

Soldering wires REFERENCES: JPG 41C for:

Using sealing compound

EQUIPMENT CONDITION: Infinity sight on work bench

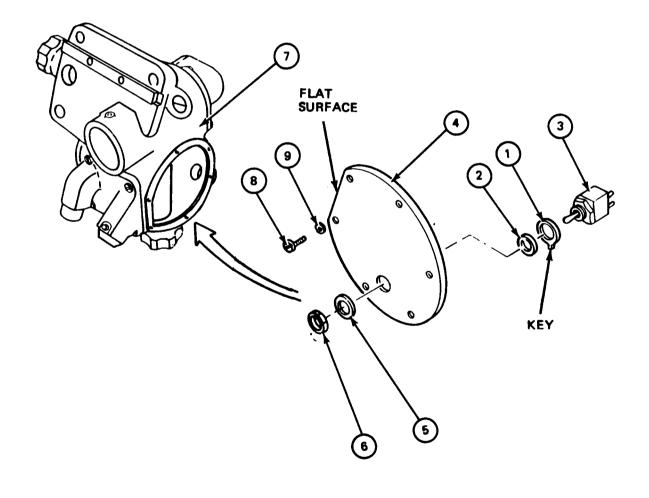
FRAME 1

Step	Procedure
1.	Place keyed washer (1) and seal (2) on toggle switch (3).
2.	Install toggle switch (3) in hole of cover (4) and line up key of keyed washer (1) with groove in cover (4).
3.	Using wrench, install washer (5) and nut (6) while holding toggle switch (3) in place.
4.	Using soldering iron, solder two wires (tagged during removal procedure) to terminals of toggle switch (3) (JPG).
5.	Place cover (4) on infinity sight housing (7) and line up both flat surfaces.
6.	Put small amount of sealing compound on threads of six screws (8) and cover (4) (JPG).
7.	Using screwdriver, install six washers (9) and six screws (8) into cover (4).
	NOTE
	FOLLOW-ON MAINTENANCE
	Do checkout procedure (Vol I, para 2-2).
	END OF TASK

Para 4-26

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4-26. TOGGLE SWITCH INSTALLATION (CONT)



Section 10. BOOT AND INSULATOR

4-27. BOOT AND INSULATOR MAINTENANCE PROCEDURES INDEX

Task	Reference (para)
Removal	4-28
Installation	4-29

4-28. BOOT AND INSULATOR REMOVAL

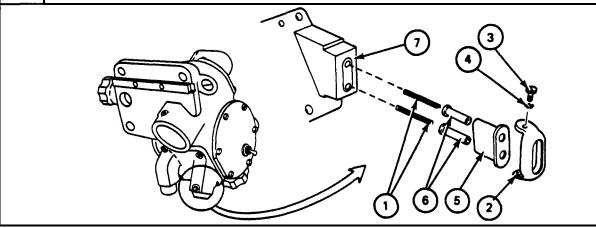
TOOLS: #1 cross tip screwdriver (Phillips type)

PERSONNEL: One

EQUIPMENT CONDITION: Infinity sight on work bench

FRAME 1

Step	Procedure		
	CAUTION		
	Springs (1) are pushing against eyelets (6). Be careful when removing boot (2).		
1.	Using screwdriver, remove two screws (3) and two washers (4).		
2.	Using fingers, remove boot (2), insulators (5), two eyelets (6), and two springs (1) from housing (7).		
	END OF TASK		



4-28

4-29. BOOT AND INSULATOR INSTALLATION

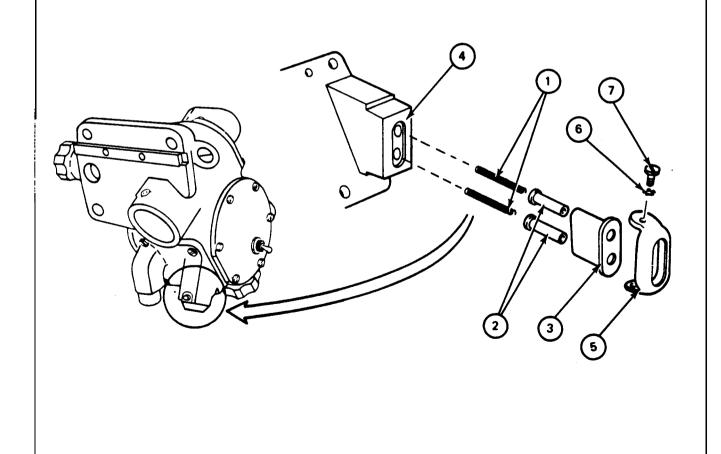
TOOLS: #1 cross tip screwdriver (Phillips type)

PERSONNEL: One

EQUIPMENT CONDITION: Infinity sight on work bench

FRAME 1

Step	Procedure	
1.	Using fingers, put two springs (1), two eyelets (2), and insulator (3) in housing (4).	
2.	Place boot (5) over end of insulator (3) and using screwdriver, install two washers (6) and two screws (7).	
	END OF TASK	



Section 11. ELEVATION BORESIGHT KNOB

4-30. ELEVATION BORESIGHT KNOB MAINTENANCE PROCEDURES INDEX

Task	Reference (para)
Disassembly	4-31
Assembly	4-32

4-31. ELEVATION BORESIGHT KNOB DISASSEMBLY

TOOLS: 4 oz. ball peen hammer 3/32" pin drive punch 1/4" flat tip screwdriver Slipjoint pliers
Soft face hammer

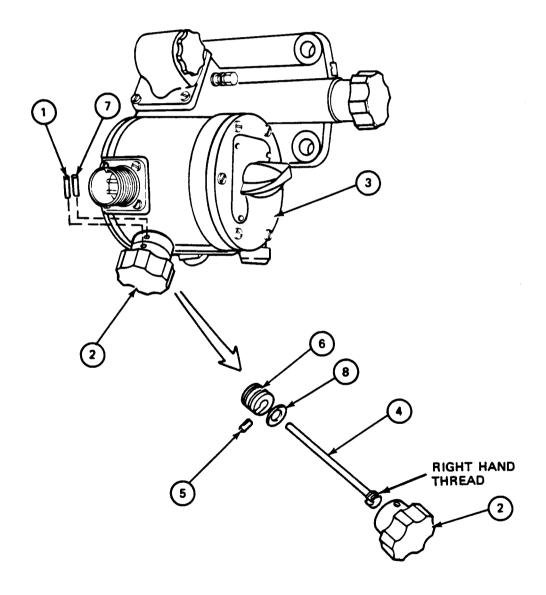
PERSONNEL: One

EQUIPMENT CONDITION: Infinity sight on work bench

PRELIMINARY PROCEDURES: Remove receptacle assembly (para 4-10)

FRAME 1 Step **Procedure** NOTF The elevation boresight knob and azimuth boresight knob are not threaded the same. The azimuth boresight knob has left hand threads. 1. Using punch and ball peen hammer, drive pin (1) out of knob (2). 2. Using screwdriver, pry knob (2) loose from infinity sight housing (3) and ten pull knob (2) and screw (4) out of housing (3). 3. Using fingers, remove key (5) from insert (6). 4. Using punch and ball peen hammer, drive pin (7) out of housing (3). 5. Using soft face hammer, loosen insert (6) and remove from housing (3). 6. Using screwdriver, remove packing (8) from insert (6). 7. Using pliers to hold screw (4), turn knob (2) counterclockwise to remove knob. END OF TASK

4-31. ELEVATION BORESIGHT KNOB DISASSEMBLY (CONT)



4-32. **ELEVATION BORESIGHT KNOB ASSEMBLY**

TOOLS: 4 oz. ball peen hammer

3/32" pin drive punch Scraper

Instrument grease (item 1, App. A) SUPPLIES:

Sealing compound (item 4, App. A)

PERSONNEL: One

REFERENCES: JPG 41C for: Using sealing compound

Using lubricant

EQUIPMENT CONDITION: Infinity sight on work bench

FRAME 1

Step	Procedure	
	NOTE	
	The elevation boresight knob and azimuth boresight knob are not threaded the same. The azimuth boresight knob has left hand threads.	
1.	Using scraper, remove old sealing compound from insert (1) and housing (2) (JPG).	
2.	Put grease on packing (3) and install packing (3) on insert (1) (JPG).	
3.	Put a small amount of sealing compound on end of insert (1).	
4.	Using fingers, put insert (1) into housing (2).	
5.	Using hammer, install pin (4) into housing (2).	
6.	Using fingers. turn screw (5) into knob (6).	
7.	Using fingers, put key (7) in slot on insert (1).	
8.	Put shaft of screw (5) into hole of insert (1).	
9.	Push shaft (5) through insert (1) making sure key (7) is fully installed in groove of shaft (5). Push until insert (1) is seated inside of knob (6).	

4-32.	ELEVATION BORESIGHT KNOB ASSEMBLY (CONT)		
Step	Procedure		
10.	Using punch and hammer, install pin (8) in knob (6). NOTE		
	FOLLOW-ON MAINTENANCE		
	Install receptacle assembly (para 4-11). Do checkout procedure (Vol I, para 2-2).		
	END OF TASK		
	THREAD GROOVE		

Section 12. AZIMUTH BORESIGHT KNOB

4-33. AZIMUTH BORESIGHT KNOB MAINTENANCE PROCEDURES INDEX

Task	Reference (para)
Disassembly	4-34
Assembly	4-35

4-34. AZIMUTH BORESIGHT KNOB DISASSEMBLY

TOOLS: 4 oz. ball peen hammer 3/32" pin drive punch 1/4" flat tip screwdriver Soft face hammer Slipjoint pliers

PERSONNEL: One

EQUIPMENT CONDITION: Infinity sight on work bench

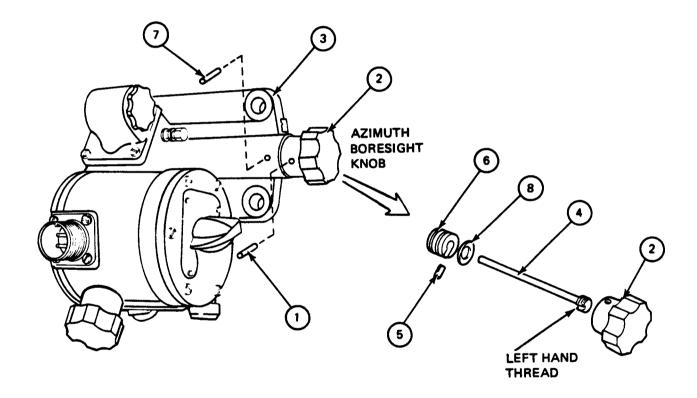
PRELIMINARY PROCEDURES: Remove receptacle assembly (para 4-10)

FRAME 1

Step	Procedure	
	NOTE	
	Elevation boresight knob and azimuth boresight knob are not the same. Azimuth boresight knob has left handed threads.	
1.	Using punch and ball peen hammer, drive pin (1) out of knob (2).	
2.	Using screwdriver, pry knob (2) loose from infinity sight housing (3) and then pull knob (2) and screw (4) out of housing (3).	
3.	Using fingers, take key (5) out of insert (6).	
4.	Using punch and ball peen hammer, drive pin (7) out of housing (3).	
5.	Using soft face hammer, loosen insert (6) and remove from housing (3).	
6.	Using screwdriver, remove packing (8) off of insert (6).	
7.	Using pliers to hold screw (4), turn knob (2) clockwise to remove knob.	
	END OF TASK	

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4-34. AZIMUTH BORESIGHT KNOB DISASSEMBLY (CONT)



4-35. AZIMUTH BORESIGHT KNOB ASSEMBLY

TOOLS: 4 oz. ball peen hammer

3/32" pin drive punch

Scraper

Instrument grease (item 1, App. A) Sealing compound (item 4, App. A) SUPPLIES:

PERSONNEL: One

REFERENCES: JPG 4lC for: Using sealing compound

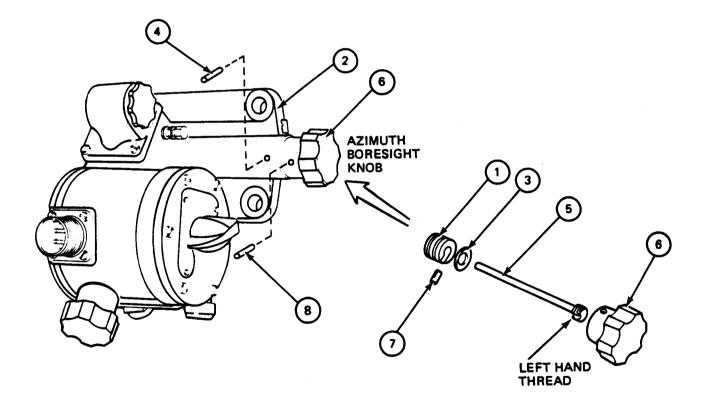
Using lubricant

EQUIPMENT CONDITION: Infinity sight on work bench

FRAME 1

Step	Procedure		
	NOTE		
	Elevation boresight knob and azimuth boresight knob are not the same. Azimuth boresight knob has left handed threads.		
1.	Using scraper, remove old sealing compound from insert (1) and housing (2) (JPG).		
2.	Put grease on packing (3) and install packing (3) on insert (1) (JPG).		
3.	Put a small amount of sealing compound on end of insert (1).		
4.	Using fingers, put insert (1) into housing (2).		
5.	Using hammer, install pin (4) into housing (2).		
6.	using fingers, turn screw (5) counterclockwise into knob (6).		
7.	Using fingers, put key (7) into slot on insert (1).		
8.	Put shaft of screw (5) into hole of insert (1).		
9.	Push shaft (5) through insert (1) making sure key (7) is fully installed in groove on shaft (5). Push until insert (1) is seated inside of knob (6).		
10.	Using punch and hammer, install pin (8) in knob (6).		
	NOTE		
	FOLLOW-ON MAINTENANCE		
	Install receptacle assembly (para 4-11). Do checkout procedure (Vol I, para 2-2).		
	END OF TASK		

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CHAPTER 5

FINAL INSPECTION

5-1. SCOPE

This chapter gives final inspection and maintenance procedures to be done after repairing the infinity sight.

Task	Reference (para)
Azimuth and Elevation Knob Adjustment	5-2
Infinity Sight Purging and Charging	5-3
Final Inspection	5-4

5-2. AZIMUTH AND ELEVATION KNOB ADJUSTMENT

TOOLS: 3" bench vise

Torque adapter

Torque wrench, 0 to 60 inch-pounds

PERSONNEL: One

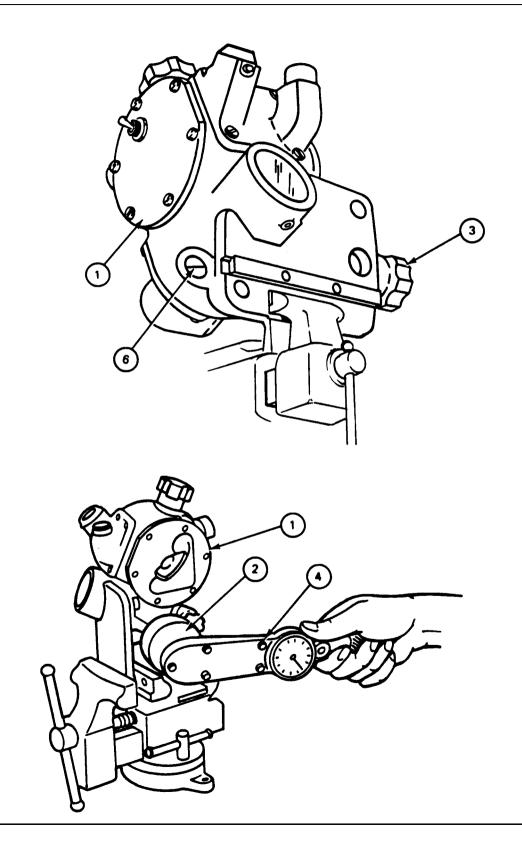
EQUIPMENT CONDITION: Infinity sight on work bench

FRAME 1

FKAN	IVIE 1			
Step	Procedure			
1.	Put infinity sight (1) in vise.			
2.	Put torque adapter (2) on azimuth knob (3).			
3.	Put torque wrench (4) on adapter (2).			
4.	Turn torque wrench (4) slowly when knob (3) starts to turn, reading on torque wrench (4) must be between 2 and 5 inch-pounds.			
5.	Repeat steps 2 thru 4 for elevation knob (5).			
6.	If reading on torque wrench is more than 5 inch-poreading on wrench is 2 to 5 inch-pounds.	unds, loosen plug (6) until torque		
7.	If reading on torque wrench is less than 2 inch-pour torque wrench is between 2 and 5 inch-pounds.	nds, tighten plug (6) until reading on		
8.	Remove sight (1) from vise.			
	END OF TASK			

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5-2. AZIMUTH AND ELEVATION KNOB ADJUSTMENT (CONT)



5-3. INFINITY SIGHT PURGING AND CHARGING

TOOLS: 3/16" open end wrench 3/32" socket head screw key (Allen wrench or equivalent)

Fire control purging kit

SUPPLIES: Soap

PERSONNEL: One

Purging and charging setup REFERENCES: JPG 4lC for:

Purging and charging shutdown

Checking for leaks

EQUIPMENT CONDITION: Infinity sight on work bench

PRELIMINARY PROCEDURES: Do purging and charging setup (JPG)

WARNING

NITROGEN GAS UNDER PRESSURE **DEATH**

or severe injury may result if personnel fail to observe safety precautions listed in Job Performance Guide 113-091-9000R.

FRAME 1

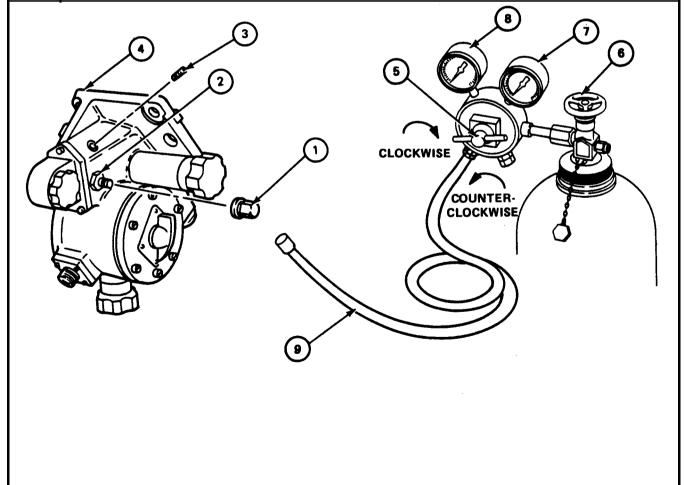
Step	Procedure				
1.	Using open end wrench, remove cap (1) from valve assembly (2).				
2.	Using Allen wrench, remove setscrew (3) from infinity sight housing (4).				
3.	With valve (5) closed, open valve (6) until reading on high pressure gauge (7) is greater than 100 psi (JPG).				
4.	Turn valve (5) slowly clockwise until reading on low pressure gauge (8) is 5 psi.				
5.	Purge with nitrogen for 5 minutes.				
6.	Reduce nitrogen pressure by closing valve (8) until gauge (9) indicates .05 psi.				
7.	Using allen wrench, replace setscrew (4).				
8.	Use soap water to search and isolate leaks. If leaks are present fault isolate (Vol I, para 4-3). If leaks are not present remove hose adapter (9) and close valve (5).				

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5-3. INFINITY SIGHT PURGING AND CHARGING (CONT)

Step	Procedure					
9.	Check valve (2) for leaks (JPG). If leak is found, repair valve assembly (para 4-6) and repeat purging and charging.					
10.	Close valves (5) and (6) completely.					
11.	Using wrench, install cap (1) on valve assembly (2).					
	NOTE FOLLOW-ON MAINTENANCE Do purging and charging shutdown procedure (JPG).					
	END OF TASK					



5-4. FINAL INSPECTION

TOOLS: 3/8" and 7/16" open end wrench

Hose assembly

PERSONNEL: One

EQUIPMENT CONDITION: Infinity sight on work bench

PRELIMINARY PROCEDURE: Purge and charge Infinity Sight (para 5-3)

NOTE

If you find a fault, tell your supervisor. If you do not find a fault, send the good infinity sight back to service.

FRAME 1 Step **Procedure** 1. Check infinity sight (1) is clean and free from dirt, grease and corrosion. 2. Check that infinity sight (1) is complete with all screws and nuts installed. END OF TASK

CHAPTER 6 PACKAGING

6-1. SCOPE

This chapter gives information on packaging of the infinity sight for storage or shipment.

6-2. PREPARATION FOR PACKAGING OF OPTICAL COMPONENTS

Cover the windows with at least four thicknesses of neutral lens tissue and secure in place with water-resistant, pressure-sensitive adhesive tape. Cover the lens tissue with cellulose cushiorkg material and secure in place with pressure-sensitive tape.

6-3. PACKAGING OF INFINITY SIGHT

Package the infinity sight in accordance with MIL-P-14232/P8635466 and TM 9-200 instructions.

APPENDIX A EXPENDABLE SUPPLIES AND MATERIALS LIST

Section 1. INTRODUCTION

A-1. SCOPE

This appendix lists expendable supplies and materials you will need to repair the 8635466 Infinity Sight. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

A-2. EXPLANATION OF COLUMNS

- a. Column 1 Item Number. This number is assigned to the entry in the listing and is used in the manual to identify the material, for example, sealing compound (item 4, App. A).
- b. Column 2 Level. This column identifies the lowest level of maintenance that requires the listed item.
 - F Direct Support Maintenance
 - H General Support Maintenance
- c. Column 3 National Stock Number. This is the National stock number assigned to the item. Use it to request or requisition the item.
- d. Column 4 Description. This tells the Federal item name and, if needed, a description to identify the item. The last line for each item indicates the part number followed by the Federal Supply Code for Manufacturer (FSCM) in parentheses, if applicable.
- e. Column 5 Unit of Measure (U/M). This column shows how the item is measured, for example, you may see these abbreviations: ea (each), in (inches), or pr (pair). Order the smallest amount you need.

Section 2. EXPENDABLE SUPPLIES AND MATERIALS

(1) Item Number	(2)	(3) Specification/ National Stock Number	(4) Description	(5) U/M
1	F	9150-00-985-7246	Grease, Instrument,	LB
2	F	8010-00-298-2287	MIL-G-3278A, 1 lb. can Paint, Exterior Surface, 1 gal. can	GL
3	F	8010-00-292-1127	Primer, Paint, 1 gal. can	GL
4	F	8030-00-275-8114	Sealing Compound, MIL-S-11030	PT
5	F	3439-00-243-1880	lpt. can Solder, 1/16" Wire, Tin 40, Lead 60 1 sl	SL
6	F	6640-00-240-5851	Paper, Lens 1 hd	ΗI

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APPENDIX B MAINTENANCE TASK INDEX

B-1. SCOPE

This appendix helps you find maintenance tasks for the 8635466 Infinity Sight by giving you references to the procedures.

9-1240-322-34

	MAINTENANCE TASKS
SIGHT, INFINITY: 8635466 (1240-00-056-4854)	FINAL INSPECTION UPON FINAL INSPECTION (VOL II) CHECKOUT (VOL II) NOTES
NOMENCLATURE	POLS SE CEIPE CHE NOTES
MACHINE THREAD PLUG	Para 4-4/ 4-5
RECEPTACLE ASSEMBLY	Para 4-10/ 4-11
TOGGLE SWITCH	Para 4-25/4-26
VALVE ASSEMBLY	Para 4-7/ 4-8
VARIABLE RESISTOR	Para 4-19/ 4-20
	W 5-124U-32Z-34

Para B-2 Cont B-3/(E-4 blank)

APPENDIX C

DIRECT SUPPORT AND

GENERAL SUPPORT MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST

(INCLUDING DEPOT MAINTENANCE REPAIR PARTS

AND SPECIAL TOOLS)

Section I. INTRODUCTION

C-1. SCOPE

This appendix lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of direct support, and general support and depot maintenance of the Sight, Infinity, Part Number 8635466. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

C-2. GENERAL

This Repair Parts and Special Tools List is divided into the following sections:

- a. Section II. Repair Parts List. A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in NSN sequence.
- b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support

equipment authorized for the performance of maintenance.

c. Section IV. National Stock
Number and Part Number Index. A list
in National item identification number
(NIIN) sequence, of all National stock
numbers (NSN) appearing in the listings,
followed by a list in alphameric
sequence of all part numbers appearing
in the listings. National stock numbers
and part numbers are cross-referenced
to each illustration figure and item
number appearance. This index is
followed by a cross-reference list of
reference designators to figure and
item numbers.

C-3. EXPLANATION OF COLUMNS

- a. Illustration. This column is divided as follows:
- (1) Figure Number. Indicates the figure number of the illustration on which the item is shown.
- (2) Item Number. The number used to identify item called out in the illustration.
- b. Source, Maintenance, and Recoverability (SMR) Codes.
- (1) Source Code. Source codes indicate the manner of acquiring

support items for maintenance, repair,

are entered in the first and second

or overhaul of end items. Source codes

positions of the Uniform SMR Code format KD -An item of a depot overhaul/ as follows: repair kit and not purchased Definition separately. Depot kit defined Code as a kit that provides items -Item procured and stocked required at the time of PA for anticipated or known usage. overhaul or repair. -An item of a maintenance kit KF PB -Item procured and stocked for and not purchased separately. insurance purpose because essentiality dictates that a Maintenance kit defined as minimum quantity be available a kit that provides an item in the supply system. that can be replaced at organizational or intermediate PC -Item procured and stocked and levels of maintenance. which otherwise would be coded PA except that it is KB -Item included in both a depot deteriorative in nature. overhaul/repair kit and a maintenance kit. PD -Support item, excluding support MOequipment, procured for initial -Item to be manufactured or issue or outfitting and stocked fabricated at organizational only for subsequent or level. additional initial issues or outfittings. Not subject to MF -Item to be manufactured or automatic replenishment. fabricated at the direct support maintenance level. PE -Support equipment procured and stocked for initial issue MH-Item to be manufactured or fabricated at the general or outfitting to specified maintenance repair activities. support maintenance level. PF -Support equipment which will MD -Item to be manufactured or not be stocked but which will fabricated at the depot be centrally procured on maintenance level. demand. A0 -Item to be assembled at PG -Item procured and stocked to organizational level. provide for sustained support for the life of the equipment. AF -Item to be assembled at direct It is applied to an item support maintenance level. peculiar to the equipment which, because of probable AH -Item to be assembled at general discontinuance or shutdown support maintenance level.

of production facilities, would

prove uneconomical to reproduce

at a later time.

AD	-Item to be assembled at depot maintenance level.	Code	Application/Explanation
XA	-Item is not procured or stocked because the requirements for the item will result in the	С	-Crew or operator maintenance performed within organizational maintenance.
	replacement of the next higher assembly.	0	-Support item is removed, replaced, used at the organizational level.
XB	-Item is not procured or stocked. If not available through salvage, requisition.	F	-Support item is removed, replaced, used at the direct support level.
XC	-Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.	Н	-Support item is removed, replaced, used at the general support level.
XD	-A support item that is not stocked. When required, item will be procured through normal supply channels.	D	-Support items that are removed, replaced, used at depot, mobile depot, or specialized repair activity only.

NOTE: Cannibalization or salvage may be used as a source of supply for any items 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:

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

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

Code	Application/Explanation
0	-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 the direct support level.
Н	-The lowest maintenance level capable of complete repair of the support item is the general support level.

- D -The lowest maintenance level capable of complete repair of the support item is the depot level.
- L -Repair restricted to Specialized Repair Activity. (Not Applicable).
- Z -Nonreparable. 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:

Recoverability Codes

Definition

- Z -Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
- O -Reparable item. When uneconomically reparable, condemn and dispose at organizational level.
- F -Reparable item. When uneconomically reparable, condemn and dispose at the direct support level.
- H -Reparable item. When uneconomically reparable, condemn and dispose at the general support level.

- D -Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
- L -Reparable item. Repair, condemnation, and disposal not authorized below depot/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). Refer to appropriate manuals/directives for specific instructions.
- c. National Stock Number. Indicates the National stock number assigned to the item and which will be used for requisitioning.
- d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

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

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

- f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.
- g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, Pr, etc). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.
- h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable, (e.g., shims, spacers, etc).

C-4. SPECIAL INFORMATION

(Not Applicable)

C-5. HOW TO LOCATE REPAIR PARTS

a. When National Stock Number or Part Number is Unknown:

- (1) First. Using the table of contents, determine the functional group within which the item belongs. This is necessary since illustrations are prepared for functional groups, and listings are divided into the same group.
- (2) Second. Find the illustration covering the functional group to which the item belongs.
- (3) Third. Identify the item on the illustration and note the illustration figure and item number of the item.
- (4) Fourth. Using the Repair Parts Listing, find the figure and item number noted on the illustration.
- b. When National Stock Number or Part Number is Known:
- (1) First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence followed by a list of part numbers in alphameric sequence, cross-referenced to the illustration figure number and item number.
- (2) Second. After finding the figure and item number, locate the figure and item number in the repair parts list.

C-6. ABBREVIATIONS (Not Applicable)

Section II

REPAIR PARTS LIST

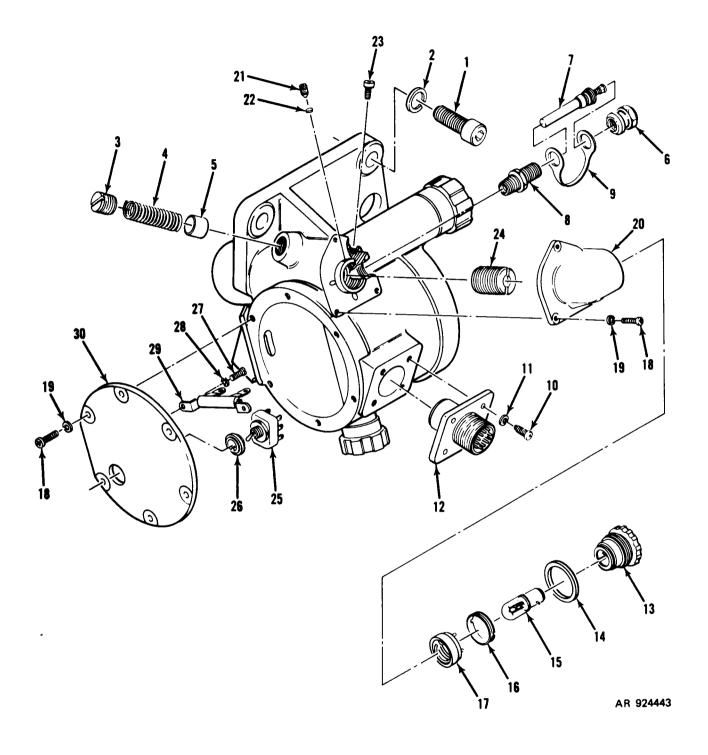


Figure 1. Infinity sight 8635466 (right view)

(1)		(2)	(3)	(4)	(5)	TM9-1240-322-34&P		(7)	(8)
ILLUSTI (a) FIG. NO.	(b) ITEM NO.	SMR CODE	FEDERAL STOCK	PART NUMBER	FSCM	DESCRIPTION		U/M	QTY INC IN UNIT
						GROUP 00 SIGHT, INFINITY	USABLE ON CODE		
						8635466 (RIGHT VIEW)			
1	1	PAFZZ	5305-00-068-8202	MS16996	96906	SCREW, CAP		EA	3
1	2	PAFZZ	5310-00-984-7042	MS35338	96906	WASHER, LOCK		EA	3
1	3	PAFZZ	5365-00-555-1158	8229037	19200	PLUG, MACHINE THREAD		EA	1
1	4	PAFZZ	5360-00-579-9525	8229039	19200	SPRING		EA	1
1	5	PAFZZ	1240-00-611-6494	8229038	19200	PLUNGER		EA	1
1	6	PAFZZ	2640-00-222-4525	MS20813	96906	CAP, PNEUMATIC VALVE		EA	1
1	7	PAFZZ	2640-00-060-3543	MS51377	96906	VALVE CORE		EA	1
1	8	PAFZZ	2640-00-114-1096	MS51607	96906	VALVE STEM, PURGING		EA	1
1	9	PAFZZ	1240-00-464-4792	1051656	19200	STRAP, VALVE CAP		EA	1
1	10	PAFZZ	5305-00-054-6653	MS51957	96906	SCREW, MACHINE		EA	4
1	11	PAFZZ	5310-00-929-6395	MS35338	96906	WASHER, LOCK		EA	4
1	12	PAFZZ	5935-00-698-3713	7720492	19200	CONNECTOR		EA	1
1	13	PAOZZ	6250-00-111-6736	1054963	19200	LAMPHOLDER		EA	1
1	14	PAFZZ	5330-00-291-5787	7652132	19200	GASKET		EA	1
1	15	PAOZZ	6240-00-155-8714	MS25231	96906	LAMP, INCANDESCENT		EA	1
1	16	PAFZZ	5365-00-200-5512	7659182	19200	RING		EA	1
1	17	PAFZZ	1240-00-235-7454	1051618	19200	TERMINAL		EA	1
1	18	PAFZZ	5305-00-054-6670	MS51957	96906	SCREW, MACHINE		EA	9
1	19	PAFZZ	5310-00-933-8119	MS35338	96906	WASHER, LOCK		EA	9
1	20	XBFZZ		8635467	19200	HOUSING		EA	1
1	21	PAFZZ	5305-00-638-1198	MS51029	96906	SETSCREW		EA	1
1	22	PAFZZ	1240-00-819-9600	8620836	19200	DISK, SOLID, PLAIN		EA	1
1	23	PAFZZ	5305-00-182-7302	1055515	19200	SCREW, MACHINE		EA	1
1	24	PAFZZ	1220-01-071-4180	1172733	19200	RETICLE ASSEMBLY		EA	1
1	25	PAFZZ	5930-00-913-3641	MS90310	96906	SWITCH, TOGGLE		EA	1
1	26	PAFZZ	5330-00-806-8769	MS25196	96906	PACKING		EA	1
1	27	PAFZZ	5305-00-054-6651	MS51957	96906	SCREW, MACHINE		EA	2
1	28	PAFZZ	5310-00-616-3555	MS35333	96906	WASHER, LOCK		EA	2
1	29	PAFZZ	5905-00-070-7822	8635157	19200	RESISTOR, FIXED,		EA	1
1	30	XBFZZ		8635448	19200	COVER		EA	1
1		MFFZZ		MILI230	81349	INSULATION (MFR FROM 5970-00-787-2321)		EA	1
1		MFFZZ		MIL-W-1	81349	WIRE (MFR FROM 6145-00-295-2810)		EA	1

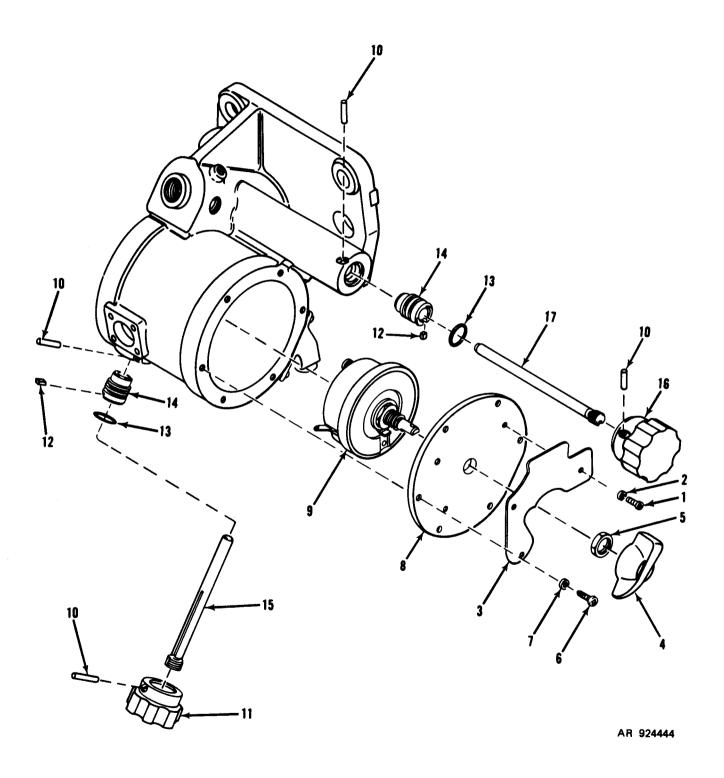


Figure 2. Infinity sight 8635466 (left view)

(1) ILLUSTRA		(2)	(3)		(5)	TM9-1240-322-34&P (6)		(7)	(8) QTY
(a) FIG. NO.	(b) ITEM NO.	SMR CODE	FEDERAL STOCK	PART NUMBER I	FSCM	DESCRIPTION	USABLE ON CODE	U/M	INC IN UNIT
						GROUP 00 SIGHT, INFINITY	USABLE ON CODE		
						8635466 (LEFT VIEW)			
2	1	PADZZ	5305-00-054-5635	MS51957	96906	SCREW, MACHINE		EA	3
2	2	PADZZ	5310-00-928-2690	MS35338	96906	WASHER, LOCK		EA	3
2	3	XBDZZ		1172735	19200	PLATE		EA	1
2	4	PAFZZ	5355-00-068-4486	8619162	19200	KNOB		EA	1
2	5	PAFZZ	5930-00-823-0482	M5423-0:8	81349	BOOT, DUST AND MOIST		EA	1
2	6	PAFZZ	5305-00-054-6670	MS51957	96906	SCREW, MACHINE		EA	6
2	7	PAFZZ	5310-00-933-8119	MS35338	96906	WASHER, LOCK		EA	6
2	8	XBFZZ		8635462	19200	COVER		EA	1
2	9	PAFZZ	5905-00-070-5670	8635166	19200	RESISTOR, VARIABLE		EA	1
2	10	XBFZZ	5315-00-810-7698	MS9105-	96906	PIN, STRAIGHT		EA	4
2	11	PAFZZ	5355-00-126-9016	8635465	19200	KNOB		EA	1
2	12	PAFZZ		8229040	19200	KEX		EA	2
2	13	PAFZA	5330-00-579-7335	8204937	19200	PACKING, PREFORMED		EA	2
2	14	PAFZZ	1240-00-086-3423	8619507 1	19200	INSERT		EA	2
2	15	PAFZZ	1240-00-450-9683	8635444	19200	SCREW		EA	1
2	16	PAFZZ	5355-00-126-2482	8635465	19200	KNOB		EA	1
2	17	PAFZZ	1240-00-450-9684	8635444	19200	SCREW		EA	1

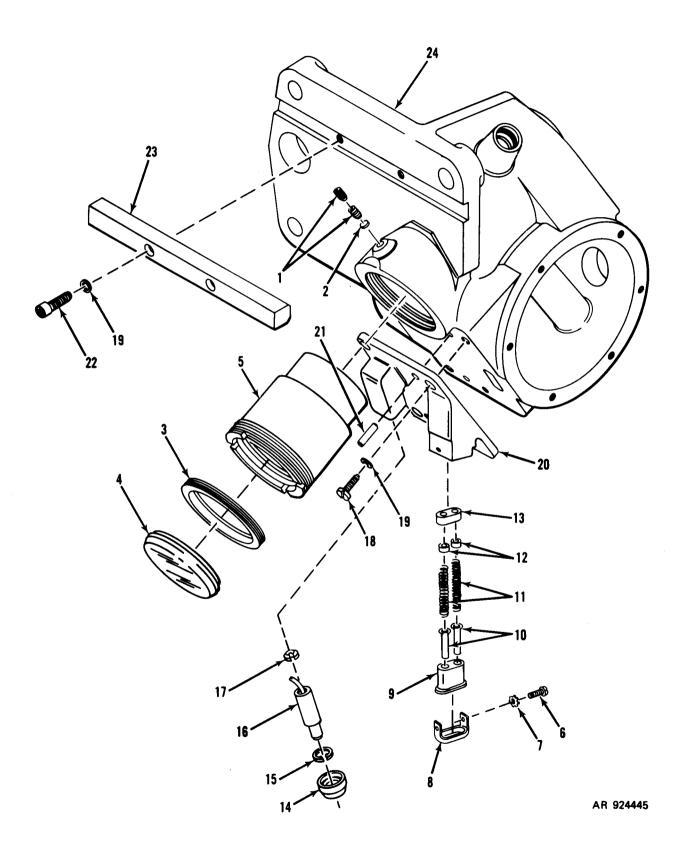


Figure 3. Infinity sight 8635466 (front view)

(1)		(2)	(3)	(4)	(5)	TM9-1240-322-34&P (6)		(7)	(8)
ILLUST (a) FIG. NO.	(b) ITEM NO.	SMR CODE	FEDERAL STOCK	PART NUMBER	FSCM	DESCRIPTION		U/M	UNIT UNIT
						GROUP 00 SIGHT, INFINITY USAB	LE ON CODE		
						8635466 (FRONT VIEW)			
3	1	PAFZZ	5305-00-803-8232	MS51029	96906	SETSCREW	1	EA	2
3	2	PAFZZ	1240-00-819-9600	8620836	5 19200	DISK, SOLID, PLAIN	1	EA	1
3	3	PAFZZ	5365-00-579-7494	8229036	5 19200	RING	1	EA	1
3	4	PAFZZ	1240-00-540-6185	8229032	2 19200	WINDOW, OBSERVATION	1	EA	1
3	5	PAFZZ	1220-00-316-0265	1051613	3 19200	LENS ASSEMBLY	1	EA	1
3	6	PAFZZ	5305-00-054-5646	MS5195	7 96906	SCREW, MACHINE	1	EA	2
3	7	PAFZZ	5310-00-058-3599	MS35335	96906	WASHER, LOCK	1	EA	2
3	8	PAFZZ	1240-00-070-7821	8635143	3 19200	BOOT ASSEMBLY	1	EA	1
3	9	PAFZZ	1240-00-906-3188	1051661	L 19200	INSULATOR	1	EA	1
3	10	PAFZZ	1240-00-070-7819	828933	7 19200	EYELET CLOSED END	1	EA	2
3	11	PAFZZ	5360-00-070-7820	8289338	3 19200	SPRING	1	EA	2
3	12	PADZZ	1240-00-916-5915	8635146	5 19200	CONTACT	1	EA	2
3	13	PADZZ	1240-00-916-5907	8635145	5 19200	INSULATOR	1	EA	1
3	14	PADZZ	1240-00-070-7818	8635459	9 19200	BOOT ASSEMBLY	1	EA	1
3	15	PADZZ	5365-00-804-6855	MS16625	5 96906	RING, RETAINING	I	EA	1
3	16	PADZZ	1240-00-675-1168	8289341	L 19200	CONTACT	1	EA	1
3	17	PADZZ	1240-00-906-3186	1051663	3 19200	SPACER	I	EA	1
3	18	PAFZZ	5305-00-054-6670	MS5195	7 96906	SCREW, MACHINE	I	EA	4
3	19	PAFZZ	5310-00-933-8119	MS35338	3 96906	WASHER, LOCK	I	EA	6
3	20	XBFZZ		8635456	5 19200	HOUSING	I	EA	1
3	21	XBFZZ	5315-00-721-4995	MS9105-	- 96906	PIN, STRAIGHT	1	EA	2
3	22	PAFZZ	5305-00-988-7601	MS16995	5 96906	SCREW, CAP	1	EA	2
3	23	XBFZZ		1051597	7 19200	KEY	1	EA	1
3	24	XBFZZ		1051614	19200	HOUSING	1	EA	1

(1)		(2)	(3)	(4)	(5)	TM9-1240-322-34&P (6)		(7)	(8)
ILLUSTRA (a) FIG. NO.	(b) ITEM NO.	SMR CODE	FEDERAL STOCK	PART NUMBER	FSCM	DESCRIPTION		U/M	QTY INC IN UNIT
						GROUP 99 BULK MATERIALS LIST	USABLE ON CODE		01111
BULK		PAFZZ	5970-00-787-2321	MILI230	0.3-5	INSULATION		FT	
BULK		PAFZZ	6145-00-295-2810	MIL-W-1	L 6878/4	WIRE		FT	

Section III

SPECIAL TOOLS LIST

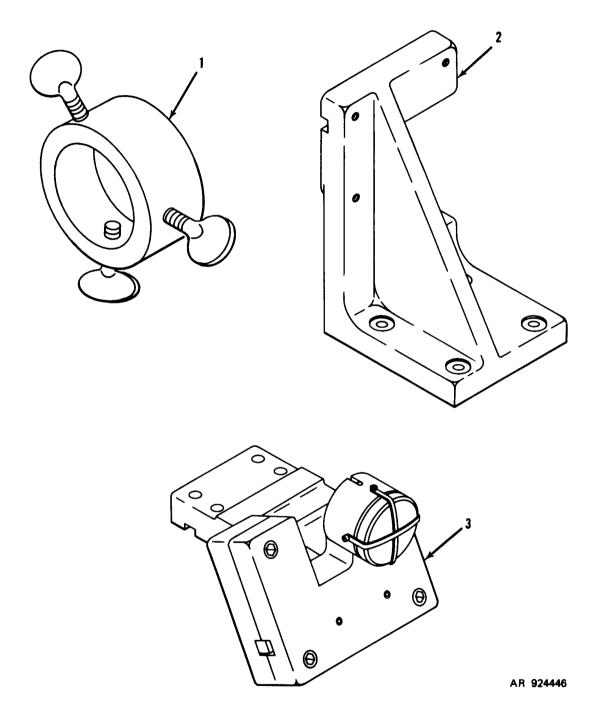


Figure 4. Special Tools

(1) ILLUSTRA	TION	(2)	(3)	(4)	(5)	TM9-1240-322-34&P (6)	(7)	(8) QTY
(a) FIG. NO.	(b) ITEM NO.	SMR CODE	FEDERAL STOCK	PART NUMBER	FSCM	DESCRIPTION	U/M	INC IN UNIT
						GROUP 95 SPECIAL TOOLS LIST USABLE ON CODE		
4	1	PEFZZ	4931-00-015-6693	8570134	19200	ADAPTER, TORQUE	EA	1
4	2	PEDZZ	4931-00-015-6695	8570135	19200	ADAPTER, VIBRATION	EA	1
4	3	PEDZZ	4931-00-015-6692	8566569	19200	ADAPTER, INFINITY	EA	1

Section IV

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

	TM9-1240-322-34&	P					
	FIGURE	ITEM		FIGURE	ITEM		
STOCK NUMBER	NO.	NO.	STOCK NUMBER	NO.	NO.		
4931-00-015-6693	4	1	1240-00-464-4792	1	9		
4931-00-015-6692	4	3	1240-00-540-6185	3	4		
4931-00-015-6695	4	2	5365-00-555-1158	1	3		
5305-00-054-5635	2	1	5330-00-579-7335	2	13		
5305-00-054-5646 5305-00-054-6651	3 1	6 27	5365-00-579-7494 5360-00-579-9525	3 1	3 4		
5305-00-054-6653	1	10	1240-00-611-6494	1	5		
5305-00-054-6670	1	18	5310-00-616-3555	1	28		
5305-00-054-6670	2	6	5305-00-638-1198	1	21		
5305-00-054-6670	3	18	1240-00-675-1168	3	16		
5310-00-058-3599 2640-00-060-3543	3 1	7 7	5935-00-698-3713 5315-00-721-4995	1 3	12 21		
5355-00-068-4486	2	4	5970-00-787-2321	BULK	21		
5305-00-068-8202	1	1	5305-00-803-8232	3	1		
5905-00-070-5670	2	9	5365-00-804-6855	3	15		
1240-00-070-7818	3	14	5330-00-806-8769	1	26		
1240-00-070-7819 5360-00-070-7820	3	10 11	5315-00-810-7698 1240-00-819-9600	2 1	10 22		
1240-00-070-7821	3	8	1240-00-819-9600	3	2		
1240-00-086-3423	2	14	5930-00-823-0482	2	5		
6250-00-111-6736	1	13	1240-00-906-3186	3	17		
2640-00-114-1096	1	8	1240-00-906-3188	3	9		
5355-00-126-2482 5355-00-126-9016	2 2	16 11	5930-00-913-3641 1240-00-916-5907	1 3	25 13		
6240-00-155-8714	1	15	1240-00-916-5915	3	12		
5305-00-182-7302	1	23	5310-00-928-2690	2	2		
5365-00-200-5512	1	16	5310-00-929-6395	1	11		
2640-00-222-4525	1	6	5310-00-933-8119	1	19		
1240-00-235-7454 5330-00-291-5787	1 1	17 14	5310-00-933-8119 5310-00-933-8119	2 3	7 19		
6145-00-295-2810	BULK	14	5310-00-933-8119	1	2		
1220-00-316-0265	3	5	5305-00-988-7601	3	22		
1240-00-450-9683	2	15	1220-01-071-4180	1	24		
1240-00-450-9684	2	17					
PART		FIG	ITEM	PART		FIG	ITEM
NUMBER	FSCM	NO	NO	NUMBER	FSCM	NO	NO
		NO	NO				
MILI23053-5	81349	NO BULK	NO	10555157-11	19200	1	23
		NO	NO				
MILI23053-5 MILI23053-5	81349 81349	NO BULK 1	NO	10555157-11 11727335	19200 19200	1 1	23 24
MILI23053-5 MILI23053-5 MILW16878-4E20NW MILW16878-4E20NW MS16625-4037	81349 81349 81349 81349 96906	NO BULK 1 BULK 1 3	15	10555157-11 11727335 11727357 7652132 7659182	19200 19200 19200 19200 19200	1 1 2 1	23 24 3 14 16
MILI23053-5 MILI23053-5 MILW16878-4E20NW MILW16878-4E20NW MS16625-4037 MS16695-25	81349 81349 81349 81349 96906	NO BULK 1 BULK 1 3 3	15 22	10555157-11 11727335 11727357 7652132 7659182 7720492	19200 19200 19200 19200 19200 19200	1 1 2 1 1	23 24 3 14 16 12
MILI23053-5 MILI23053-5 MILW16878-4E20NW MILW16878-4E20NW MS16625-4037 MS16995-25 MS16996-40	81349 81349 81349 81349 96906 96906	NO BULK 1 BULK 1 3 3 1	15 22 1	10555157-11 11727335 11727357 7652132 7659182 7720492 8204937	19200 19200 19200 19200 19200 19200 19200	1 1 2 1 1 1 2	23 24 3 14 16 12
MILI23053-5 MILI23053-5 MILW16878-4E20NW MILW16878-4E20NW MS16625-4037 MS16695-25	81349 81349 81349 81349 96906	NO BULK 1 BULK 1 3 3	15 22	10555157-11 11727335 11727357 7652132 7659182 7720492	19200 19200 19200 19200 19200 19200	1 1 2 1 1	23 24 3 14 16 12
MILI23053-5 MILI23053-5 MILW16878-4E20NW MILW16878-4E20NW MS16625-4037 MS16995-25 MS16996-40 MS20813-1	81349 81349 81349 81349 96906 96906 96906 96906	NO BULK 1 BULK 1 3 3 1	15 22 1 6	10555157-11 11727335 11727357 7652132 7659182 7720492 8204937 8229032	19200 19200 19200 19200 19200 19200 19200 19200	1 1 2 1 1 1 2 3	23 24 3 14 16 12 13 4
MILI23053-5 MILI23053-5 MILW16878-4E20NW MILW16878-4E20NW MSI6625-4037 MSI6995-25 MS16996-40 MS20813-1 MS25196-1 MS25231-313 MS35333-71	81349 81349 81349 81349 96906 96906 96906 96906 96906 96906	NO BULK 1 BULK 1 3 1 1 1	15 22 1 6 26 15 28	10555157-11 11727335 11727357 7652132 7659182 7720492 8204937 8229032 8229036 8229037 8229038	19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200	1 1 2 1 1 1 2 3 3 3 1 1	23 24 3 14 16 12 13 4 3 3
MILI23053-5 MILI23053-5 MILW16878-4E20NW MILW16878-4E20NW MS16625-4037 MS16995-25 MS16996-40 MS20813-1 MS25196-1 MS25231-313 MS35333-71 MS35333-71	81349 81349 81349 81349 96906 96906 96906 96906 96906 96906 96906 96906	NO BULK 1 BULK 1 3 3 1 1 1 1 3	15 22 1 6 26 15 28 7	10555157-11 11727335 11727357 7652132 7659182 7720492 8204937 8229032 8229036 8229037 8229038 8229038	19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200	1 1 2 1 1 1 2 3 3 3 1 1	23 24 3 14 16 12 13 4 3 3 5
MILI23053-5 MILI23053-5 MILW16878-4E20NW MILW16878-4E20NW MS16625-4037 MS16995-25 MS16996-40 MS20813-1 MS25196-1 MS25231-313 MS35333-71 MS35333-57 MS35338-134	81349 81349 81349 81349 96906 96906 96906 96906 96906 96906 96906 96906	NO BULK 1 BULK 1 3 3 1 1 1 1 3 2	15 22 1 6 26 15 28 7	10555157-11 11727335 11727357 7652132 7659182 7720492 8204937 8229032 8229036 8229037 8229038 8229039 8229039	19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200	1 1 2 1 1 1 2 3 3 1 1 1 1 2	23 24 3 14 16 12 13 4 3 5 4
MILI23053-5 MILI23053-5 MILW16878-4E20NW MILW16878-4E20NW MS16625-4037 MS16995-25 MS16996-40 MS20813-1 MS25196-1 MS25231-313 MS35333-71 MS35333-71	81349 81349 81349 81349 96906 96906 96906 96906 96906 96906 96906 96906	NO BULK 1 BULK 1 3 3 1 1 1 1 3	15 22 1 6 26 15 28 7	10555157-11 11727335 11727357 7652132 7659182 7720492 8204937 8229032 8229036 8229037 8229038 8229038	19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200	1 1 2 1 1 1 2 3 3 3 1 1	23 24 3 14 16 12 13 4 3 3 5
MILI23053-5 MILI23053-5 MILW16878-4E20NW MILW16878-4E20NW MS16625-4037 MS16995-25 MS16996-40 MS20813-1 MS25196-1 MS25231-313 MS35333-71 MS35335-57 MS35338-134 MS35338-136	81349 81349 81349 81349 96906 96906 96906 96906 96906 96906 96906 96906 96906	NO BULK 1 BULK 1 3 3 1 1 1 1 1 2	15 22 1 6 26 15 28 7 2 11 19	10555157-11 11727335 11727357 7652132 7659182 7720492 8204937 8229032 8229036 8229037 8229038 8229039 8229040 8289337	19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200	1 1 2 1 1 1 2 3 3 3 1 1 1 2 3 3 3 3 3 3	23 24 3 114 16 12 13 4 3 3 5 4 12 10 11 11
MILI23053-5 MILI23053-5 MILW16878-4E20NW MILW16878-4E20NW MS16625-4037 MS16995-25 MS16996-40 MS20813-1 MS25196-1 MS25231-313 MS35333-71 MS35333-71 MS35338-134 MS35338-136 MS35338-137 MS35338-137 MS35338-137 MS35338-137	81349 81349 81349 81349 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906	NO BULK 1 BULK 1 3 3 1 1 1 1 1 2 1 2 3	15 22 1 6 26 15 28 7 2 11 19 7	10555157-11 11727335 11727357 7652132 7659182 7720492 8204937 8229032 8229036 8229037 8229038 8229039 8229040 8289337 8289338 8289341 8566569	19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200	1 1 2 1 1 1 2 3 3 1 1 1 2 3 3 3 1 1 2 2 3 3 3 4 4 4 4 5 2 3 3 3 3 3 4 4 4 4 5 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	23 24 3 14 16 12 13 4 3 5 4 12 10 11 16 3
MILI23053-5 MILW16878-4E20NW MILW16878-4E20NW MILW16878-4E20NW MS16625-4037 MS16995-25 MS16996-40 MS20813-1 MS25196-1 MS25231-313 MS35333-71 MS35333-71 MS35338-136 MS35338-137 MS35338-137 MS35338-137 MS35338-137 MS35338-137 MS35338-137 MS35338-137 MS35338-137 MS35338-137	81349 81349 81349 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906	NO BULK 1 BULK 1 3 3 1 1 1 1 1 2 3 1 1 3 2 1 1 1 3 2 1 1 1 3 2 1 1 1 3 2 1 1 1 1	15 22 1 6 26 15 28 7 2 11 19 7	10555157-11 11727335 11727357 7652132 7659182 7720492 8204937 8229032 8229036 8229037 8229038 8229039 8229040 8289337 8289341 8566569 8570134	19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200	1 1 2 1 1 1 2 3 3 3 1 1 1 2 3 3 3 3 4 4 4 4	23 24 3 14 16 12 13 4 3 3 5 4 12 10 11 16 3 3
MILI23053-5 MILW16878-4E20NW MILW16878-4E20NW MILW16878-4E20NW MS16625-4037 MS16995-25 MS16996-40 MS20813-1 MS25131-313 MS35333-71 MS35338-137 MS35338-137 MS35338-137 MS35338-137 MS35338-137 MS35338-137 MS35338-137 MS35338-137 MS35338-141 MS51029-1	81349 81349 81349 81349 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906 96906	NO BULK 1 BULK 1 3 3 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	15 22 1 6 26 15 28 7 2 11 19 7	10555157-11 11727335 11727357 7652132 7659182 7720492 8204937 8229032 8229036 8229037 8229038 8229039 8229040 8289337 8289337 8289341 8566569 8570134	19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200 19200	1 1 2 1 1 1 2 3 3 3 1 1 1 2 3 3 3 3 1 1 2 3 3 3 4 4 4 4 4 4 4 4 4 5 3 3 3 4 4 4 4	23 24 3 14 16 12 13 4 3 5 4 12 10 11 16 3 1
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THE METRIC SYSTEM AND EQUIVALENTS

LINEAR 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 M Himeters = 0.06 Cu Inches 1 Cu Meter =1,000,000 Cu Centimeters =35.31 Cu Feet

TEMPERATURE

5/9 (OF - 32) =OC

2120 Fahrenheit is equivalent to 1000 Celsius 900 Fahrenheit is equivalent to 32.20 Celsius 320 Fahrenheit is equivalent to 00 Celsius 9/5 C0 + 32= F0

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
TO CHANGE Inches	Centimeters	2.540
Feet		
Yards	Meters	0.914
Miles		
Square Inches		
Square Feet		
Square Yards		
Square Miles		
Acres		
Cubic Feet (
Cubic Yards		
Fluid Ounces		
Pints		
Quarts		
Gallons		
Ounces		
Pounds		
Short Tons		
Pound-Feet		
Pounds per Square Inch i	Kilopascals	6.895
Miles per Gallon		
Miles per Hour 1	Kilometers per Hour	1.609

TO CHANGE TO	MULTIPLY BY
Centimeters Inches	0.394
Meters Feet	
Meters Yards	
Kilometers Miles	
Square Centimeters Square Inches	
Square Meters Square Feet	
Square Meters Square Yards	
Square Kilometers Square Miles	
Square Hectometers Acres	
Cubic Meters Cubic Feet	
Cubic Meters Cubic Yards	
Milliliters Fluid Ounces	
Liters Pints	
Liters Quarts	
Liters Gallons	
Grams Ounces	0.035
Kilograms Pounds	2.205
Metric Tons Short Tons	1.102
Newton-Meters Pound-Feet	0.738
Kilopascals Pounds per Square I	
Kilometers per Liter Miles per Gallon .	
Kilometers per Hour Miles per Hour	



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