

TECHNICAL MANUAL

DIRECT SUPPORT AND

GENERAL SUPPORT

MAINTENANCE MANUAL INCLUDING

REPAIR PARTS AND

SPECIAL TOOLS LIST

(INCLUDING DEPOT MAINTENANCE

REPAIR PARTS)

VOLUME I - TROUBLESHOOTING

VOLUME II - MAINTENANCE

TELESCOPE, ARTICULATED:

M105D (1240-00-980-1745)

M105F (1240-00-764-1668)

This copy is a reprint which includes current
pages from Changes 1.

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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Current as of 3 June 1988 for APPENDIX C

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, 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: Commander US Army Armament, Munitions and Chemical Command ATTN: AMSMC-MAS Rock Island, IL 61299-6000 A reply will be furnished to you.

* This manual supersedes TM 9-1240-262-34, 31 January 1963, and TM 9-1240-262-34, 21 June 1976, 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 M105D and M105F Articulated Telescopes.

- 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 the 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 1-3. 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.

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VOLUME I - TROUBLESHOOTING

TELESCOPE, ARTICULATED:

M105D
M105F

CHAPTER 1

INTRODUCTION

1-1. SCOPE

This volume contains troubleshooting requirements and procedures for direct support and general support (DS/GS) maintenance of the M105D and M105F Articulated Telescopes. See Volume II for maintenance procedures.

1-2. ORGANIZATION

a. Chapter 2, Checkout Procedure, gives you flow charts to follow to check that the telescope 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 Procedure, shows you step-by-step how to troubleshoot fault symptoms found in Chapter 3.

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 of the assembly 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.
- (C)** Do the checkout procedure in Vol I, Chap 2 from the beginning until you find a fault symptom.
- (D)** When a fault Symptom is found, go to the chapter noted and follow the maintenance procedure given there. If you already know the fault symptom, look at the fault symptom - index in Chapter 3 of this volume. This will also tell you what to do.
- (E)** After the fault symptom has been corrected, do the checkout procedure in Chapter 2 again. This is to make sure that all fault symptoms have been corrected.
- (F)** If all fault symptoms are now corrected, do the maintenance tasks on DA Form 2404.
- (G)** Do the final inspection given in Vol II, Chap 5.
- (H)** The job is over and the good telescope is sent back to service.
- (I)** If all fault symptoms 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.

1-3. HOW TO TROUBLESHOOT (CONT)

