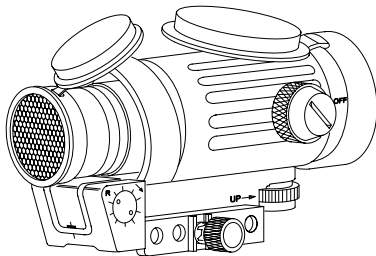


**OPERATOR, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
for
TELESCOPE, STRAIGHT: M145
(1240-01-411-6350)**



Distribution Statement A – Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

28 FEBRUARY 2000

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HOW TO USE THIS MANUAL

The safest, easiest, and best way to operate and maintain the Telescope is to use this manual. Learning to use this TM is as easy as reading through the next few pages of this section. Knowing what is in this manual and how to use it will save you time and work and will help you avoid exposing yourself to unnecessary hazards while performing your job.

So where do you start?

Right here, if this is the first time you are using this TM. Be sure to completely read this section on how to use this manual first. There's a lot of information here that you need to know.

Organization

This manual covers the operation and maintenance of the Telescope. The manual itself is divided into eight chapters, including supporting information. The eight chapters, and what they contain, are found in the Table of Contents in the front of this manual. For example, to learn about operating the Telescope, you would look in the table of contents and discover that Chapter 2 provides all pertinent information about the operation of the telescope. Since Chapter 2 covers a great deal of information, you will have to scan the chapter to find the specific information you will need.

In Chapter 8, you will find the supporting information. Each work package provides specific information that will assist you in performing the various operational and maintenance tasks. The work packages provide such information as additional references (i.e. other TMs or FMs), as in WP 0023 00, and Expendable and Durable Items List, as in WP 0036 00. Become familiar with all supporting information work packages and what they contain before beginning any operational or maintenance task.

HOW TO USE THIS MANUAL - Continued

Am I ready to use the TM?

If you've taken the time necessary to read this section, and are sure of the location and arrangement of the different sections of this TM, you are ready to begin. Remember, this TM has been arranged with you, the user, in mind. Your safety and ability to perform the operational and maintenance tasks in the most efficient manner possible hinge on your ability to perform and understand the information contained in this manual. If you fully understand the arrangement and purpose of this TM, and have taken the time to read through this section, you will have no trouble operating and maintaining the telescope in the manner for which it was designed.

OPERATOR

**TELESCOPE, STRAIGHT: M145
(NSN 1240-01-411-6350)**

GENERAL INFORMATION

SCOPE**Type of Manual**

Operator, Unit, and Direct Support Maintenance Manual including Repair Parts and Special Tools List.

Model Number and Equipment Name

M145 Straight Telescope with Mount.

SCOPE - Continued

Purpose of Equipment

The Telescope is used for sighting targets on the M249 and M240B machine guns.

MAINTENANCE FORMS, RECORDS, AND REPORTS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed in DA PAM 738-750, Functional User's Manual for the Army Maintenance Management System (TAMMS).

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your Telescope or mount needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Product Quality Deficiency Report). Mail it to us at Commander, U.S. Army Armament Research, Development and Engineering Center, ATTN: AMSTA-AR-QAW-A (R)/Customer Feedback Center, Rock Island, IL 61299-7300. We'll send you a reply.

CORROSION PREVENTION AND CONTROL (CPC)

Corrosion Prevention and Control (CPC) of Army materiel is a continuing problem. It is important that any corrosion problems with the telescope and mount be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

CORROSION PREVENTION AND CONTROL (CPC) - Continued

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it should be reported using SF 368, Product Quality Deficiency Report. Use of key words such as "corrosion", "rust", "deterioration", or "cracking" will ensure that the information is identified as a CPC problem.

The form should be sent to:

Commander
U.S. Army Armament Research, Development and Engineering Center
ATTN: AMSTA-AR-QAW-A (R)/Customer Feedback Center
Rock Island, IL 61299-7300

OZONE DEPLETING SUBSTANCES

Not applicable.

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Only your commanding officer can give the order to destroy materiel to prevent enemy use. Refer to TM 750-244-7.

PREPARATION FOR STORAGE OR SHIPMENT

Refer to WP 0011 00 for preparation for storage or shipment.

WARRANTY INFORMATION

The Telescope and Mount is warranted for 12 months from the date of delivery. The warranty starts on the date found in block 23 of DA Form 2408-9, Equipment Control Record. Report all defects to your supervisor, who will take appropriate action.

NOMENCLATURE CROSS REFERENCE LIST**Common Name****Official Nomenclature**

Laser Filter

Filter Assembly

Lens Cover

Front Cap Assembly

Lens Cover

Rear Cap Assembly

Picatinny Rail

MIL-STD 1913

Rotary Switch

Rotary Reticle Illumination Switch

Telescope

M145 Straight Telescope

**SUPPORTING INFORMATION FOR REPAIR PARTS, SPECIAL TOOLS,
TMDE, AND SUPPORT EQUIPMENT****Common Tools and Equipment**

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE), CTA 50-970, Expendable/Durable Items (Except: Medical, Class V, Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items, as applicable to your unit.

Special Tools, TMDE, and Support Equipment

Refer to WP0025 00 for a list of special tools that are used on this equipment. Also, refer to WP 0025 00 for the Maintenance Allocation Chart.

Repair Parts

Repair parts are listed and illustrated in supporting information work packages 0027 00 through 0032 00.