
TECHNICAL MANUAL

**AVIATION UNIT AND INTERMEDIATE
MAINTENANCE MANUAL
FOR
TARGET ACQUISITION DESIGNATION
SIGHT (TADS) ASSEMBLY
SHIPPING AND STORAGE CONTAINERS**

13082385, 13082387, 13083610, 13083611, 13083613-19,
13083614, 13083615, 13083617, 13083618, 13083619, 13083620, 13083621,
13083622, 13083624, 13083625

**PILOT NIGHT VISION SENSOR (PNVS) ASSEMBLY
SHIPPING AND STORAGE CONTAINERS**

13083608, 13083612, 13083616

*This manual supersedes TM 9-8145-476-23, dated 30 April 1985, including all changes.

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

AH-64A ATTACK HELICOPTER

**HEADQUARTERS, DEPARTMENT OF THE ARMY
30 AUGUST 2001**

TECHNICAL MANUAL

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 30 AUGUST 2001

AVIATION UNIT AND INTERMEDIATE
MAINTENANCE MANUAL
FOR
TARGET ACQUISITION DESIGNATION SIGHT (TADS) ASSEMBLY
SHIPPING AND STORAGE CONTAINERS,
13082385, 13082387, 13083610, 13083611, 13083613-19, 13083614, 13083615, 13083617,
13083618, 13083619, 13083620, 13083621, 13083622, 13083624, AND 13083625
AND
PILOT NIGHT VISION SENSOR (PNVS) ASSEMBLY
SHIPPING AND STORAGE CONTAINERS,
13083608, 13083612, AND 13083616
(AH-64A ATTACK HELICOPTER)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS
You can help improve this manual. If you find any errors 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: Commander, U.S. Army Aviation and Missile Command, ATTN: AMSAM-MMC-MA-NP, Redstone Arsenal, AL 35898-5000. A reply will be furnished to you. You may also send in your comments electronically to our e-mail address: 2028@redstone.army.mil or FAX us at (256) 842-6546/DSN 788-6546. Instructions for sending an electronic 2028 may be found at the end of this TM immediately preceding the hard copy 2028.

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HOW TO USE THIS MANUAL

If you cannot find the information you are looking for, you cannot properly do your job. Take a few minutes to look through this manual. You will find it easier to use once you have become familiar with it.

Each chapter and section is set up to lead you through it step by step. For example:

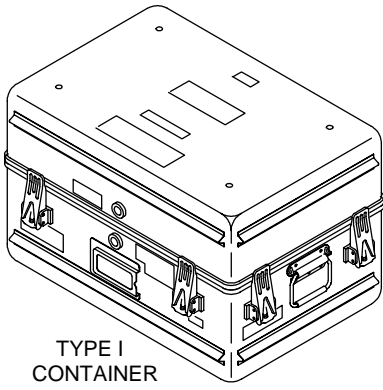
1. On the chapter page, you will see a listing of the sections in that chapter. Listed under the section titles is a listing of the tasks for that section. Find the task (by title) that you have been assigned. Now, look across from the task title and you will find the paragraph and page number for the task. Notice that the chapter number forms part of the page number.
2. Now that you have located the page number, turn to that page and review the task requirements before starting the procedures.
3. Did you notice that each task or job begins with an initial setup?
 - a. INITIAL SETUP lists the configuration, test equipment, tools and special tools, materials/parts, military occupational specialty (MOS), references, safety instructions, condition equipment should be in, and general instructions for you to complete the task. FOLLOWUP lists the procedures to be performed after you have completed the basic task.
 - b. Now, what exactly does INITIAL SETUP mean to you? The term "INITIAL SETUP" means, "DO THIS FIRST BEFORE STARTING THE TASK." Review one of the initial setup tables and become familiar with the requirements.
4. An explanation of the initial setup headings is presented below.
 - a. Tools and Special Tools. Special tools needed to perform the task. Be sure to acquire all the tools before you start the task.
 - b. Materials/Parts. Materials and parts needed to perform the task. Materials can be found in Appendix C. Next to the name of the material listed in the initial setup you will find an item number. This number matches the item number in column (1) of Appendix C. Be sure to acquire all the materials and parts before you start the task.
 - c. Personnel Required. MOS required to do the task. This will also tell you the number of persons needed to perform the task.
5. You can also use the table of contents on page i of this manual to locate page number for chapters, sections, and the appendixes.
6. Let's see if you understand how to find a specific task. Suppose your supervisor wants you to replace a part or assembly.

Here's how you would find it:

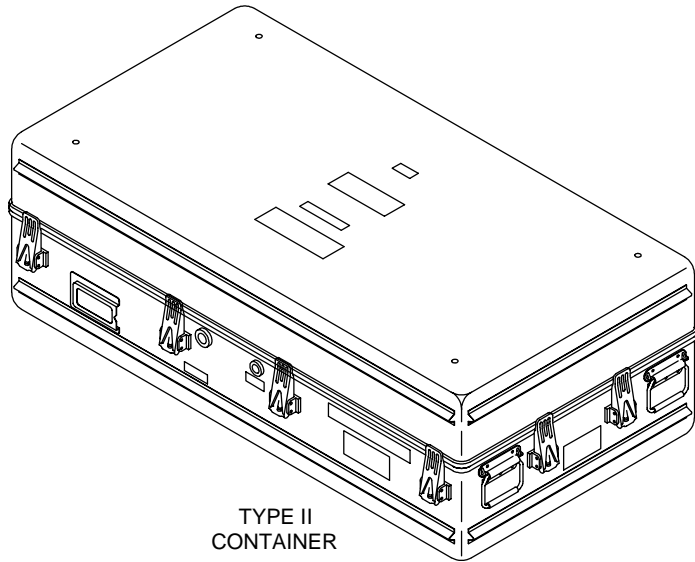
 - a. Obtain the correct TM for the task and look up the procedure in the chapter covering the type of task you are to perform.
 - b. For example: Replacement is a maintenance task you can find located in the maintenance chapter.

HOW TO USE THIS MANUAL (cont)

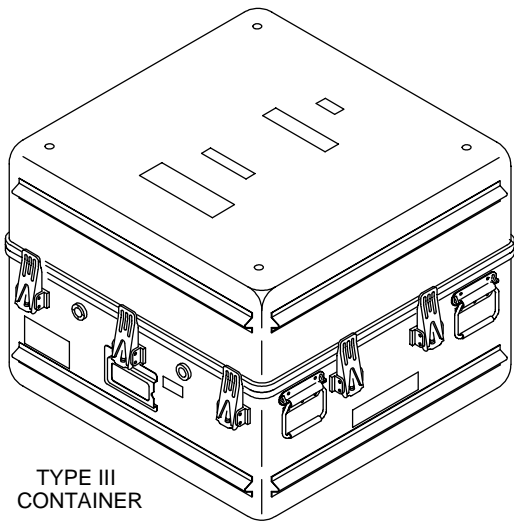
- c. Looking at the section titles listed in the maintenance chapter index, you should have located the page number for the maintenance procedures. Going to that page you found the section index and located the paragraph and page number of the replacement task.
7. Another approach would be to look in the alphabetical index in the rear of the manual.



TYPE I
CONTAINER



TYPE II
CONTAINER



TYPE III
CONTAINER

400-014

CHAPTER 1
INTRODUCTION

	Section	Page
General Information	I	1-1
Equipment Description and Data	II	1-3

Section I. GENERAL INFORMATION

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Scope	1-1	1-1
Maintenance Forms, Records, and Reports	1-2	1-1
Destruction of Army Materiel to Prevent Enemy Use	1-3	1-1
Preparation for Storage or Shipment	1-4	1-1
Quality Assurance/Quality Control (QA/QC)	1-5	1-1
Official Nomenclature, Names, and Designations	1-6	1-2

1-1. SCOPE

a. Type of Manual. This manual provides aviation unit and intermediate maintenance instructions for shipping and storage containers.

b. Model Number and Equipment Name. There are three types of reusable shipping and storage containers. Each type is modified to handle the line replaceable units (LRUs) that comprise the Target Acquisition Designation Sight (TADS) Assembly and Pilot Night Vision Sensor (PNVS) Assembly. Refer to table 1-2 for the container type and LRU configuration part number.

c. Purpose of Equipment. The shipping and storage containers provide protection for the LRUs during shipping, storage, and handling.

1-2. MAINTENANCE FORMS, RECORDS AND REPORTS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-751, The Army Maintenance Management System - Aviation (TAMMS).

1-3. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Refer to TM 750-244-2 for information about destruction of Army materiel to prevent enemy use.

1-4. PREPARATION FOR STORAGE OR SHIPMENT

Preparation for the storage or shipment of the containers should be done per Department of Defense (DOD) Standards. There are no special handling procedures for the containers.

1-5. QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

Refer to FM 1-511 for information about Quality Assurance/Quality Control (QA/QC).

1-6. OFFICIAL NOMENCLATURE, NAMES, AND DESIGNATIONS

This listing includes nomenclature cross-references used in this manual. Refer to the glossary in the back of this manual for an explanation of other abbreviations.

Name/
Abbreviation

Official
Nomenclature

Helicopter
PNVS
TADS

AH-64A Attack Helicopter
Pilot Night Vision Sensor Assembly AN/AAQ-11
Target Acquisition Designation Sight Assembly AN/ASQ-170

Section II. EQUIPMENT DESCRIPTION AND DATA

Subject	Para	Page
Equipment Purpose, Capabilities, and Features	1-7	1-3
Differences Between Models	1-8	1-6
Equipment Data	1-9	1-6
Safety, Care, and Handling	1-10	1-7
Equipment Configuration	1-11	1-8

1-7. EQUIPMENT PURPOSES, CAPABILITIES, AND FEATURES

The purposes, capabilities, and features described below are typical of container types I, II, and III.

a. Purpose. The shipping and storage containers are reusable containers rectangular in shape, made of an aluminum alloy material. Each container is designed to protect the equipment from shock, vibration, humidity, and water damage during transportation and storage.

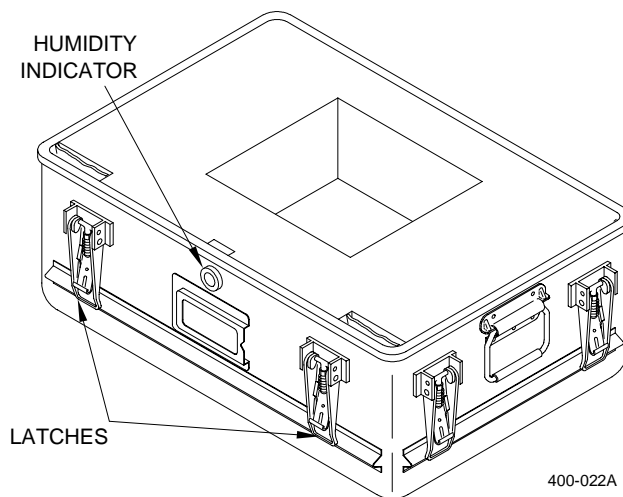
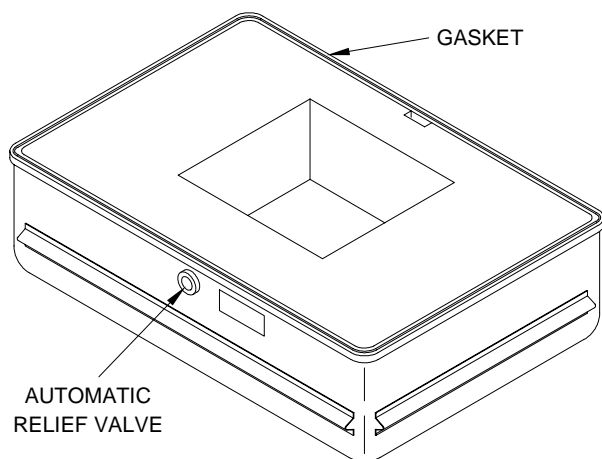
b. Capabilities and Features

(1) Latches. Type I has eight latches, type II has 12 latches, and type III has 10 latches securing the lid to the container during storage. Release all latches when opening the container.

(2) Automatic relief valve. A two-way valve operates by vacuum or pressure to equalize pressure inside the container with atmospheric pressure outside the container. The vacuum rating is 3-1/2 psi and pressure rating is 2-1/2 psi. Internal pressure is equalized by pressing the manual release core.

(3) Humidity indicator. Humidity is registered to 50 percent and indicated by a lavender (or bluish) color in one or more of four circles. The circles indicate 20, 30, 40, or 50 percent humidity. After exposure to high humidity, the desiccant is replaced and circles return to former color (black numbers on a white background).

(4) Gasket. When closed, a rubber gasket waterproofs the container.



400-022A