

***TM1-8145-476-23P**

TECHNICAL MANUAL

**AVIATION UNIT AND
INTERMEDIATE MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
FOR**

**TARGET ACQUISITION DESIGNATION
SIGHT (TADS) ASSEMBLY
SHIPPING AND STORAGE CONTAINERS**

13083610, 13083611, 13083613-19, 13083614, 13083615, 13083617,
13083618, 13083619, 13083620, 13083621, 13083622, 13083624,
13083625, 13082385, 13082387, and 13231276

AND

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

13083608, 13083612, and 13083616

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

*This manual supersedes TM 1-8145-476-23P, dated 31 March 1993, including all changes.

AH-64A ATTACK HELICOPTER

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

LIST OF EFFECTIVE PAGES

INSERT LATEST CHANGE PAGES. DESTROY SUPERSEDED PAGES.

NOTE: The portion of the text affected by the changes is indicated by a vertical line 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 change pages are:
Original....0....21 August 2001

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 46, CONSISTING OF THE FOLLOWING:

Page No.	*Change No.	Page No.	*Change No.
Title	0		
A	0		
B Blank	0		
Title - ii	0		
1 - 9	0		
10 Blank	0		
Section II Title	0		
F1 Sh 1 through 8-1	0		
Section III Title	0		
Section IV Title	0		
I-1 - I-6	0		

*Zero in this column indicates an original page.

TECHNICAL MANUAL

No. 1-8145-476-23P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 21 AUGUST 2001

TECHNICAL MANUAL

**AVIATION UNIT AND
INTERMEDIATE MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
FOR
TARGET ACQUISITION DESIGNATION
SIGHT (TADS) ASSEMBLY
SHIPPING AND STORAGE CONTAINERS**
13083610, 13083611, 13083613-19, 13083614, 13083615, 13083617,
13083618, 13083619, 13083620, 13083621, 13083622, 13083624,
13083625, 13082385, 13082387, and 13231276

AND

**PILOT NIGHT VISION SENSOR (PNVS)
ASSEMBLY
SHIPPING AND STORAGE CONTAINERS**
13083608, 13083612, and 13083616

AH-64A ATTACK HELICOPTER

Current as of 15 April 2001

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.

*This manual supersedes TM 1-8145-476-23P, Dated 31 March 1993, including all changes.
Distribution Statement A: Approved for public release; distribution is unlimited.

TABLE OF CONTENTS

	Page	Illus/ Figure
Section I.	INTRODUCTION	1
Section II.	REPAIR PARTS LIST	1-1
Group 00	TADS/PNVS Shipping and Storage Containers	1-1 1
Group 04	Type I Shipping/Storage Containers	2-1 2
Group 08	Type II Shipping/Storage Container	3-1 3
Group 12	Type III Shipping/Storage Containers	4-1 4
	1204 Case and Clamp Assembly	5-1 5
	1204 Case and Clamp Assembly	6-1 6
	120404 Clamp Assembly	7-1 7
Group 16	Type IV Shipping/Storage Container	8-1 8
Section III.	SPECIAL TOOLS LIST (Not Applicable)	9-1
Section IV.	CROSS-REFERENCE INDEX	I-1
	National stock number index	I-1
	Part number index	I-2

AVIATION UNIT AND INTERMEDIATE MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

1. Scope.

This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of aviation unit and aviation intermediate maintenance of the TADS/PNVS Shipping and Storage Containers. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source, maintenance, and recoverability (SMR) codes.

2. General.

In addition to Section I, Introduction, 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 by this RPSTL 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 ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in item name sequence. Repair parts kits are listed separately in their own functional group within Section II. Repair parts for repairable special tools are also listed in this section. Items listed are shown on the associated illustration(s)/figures(s).

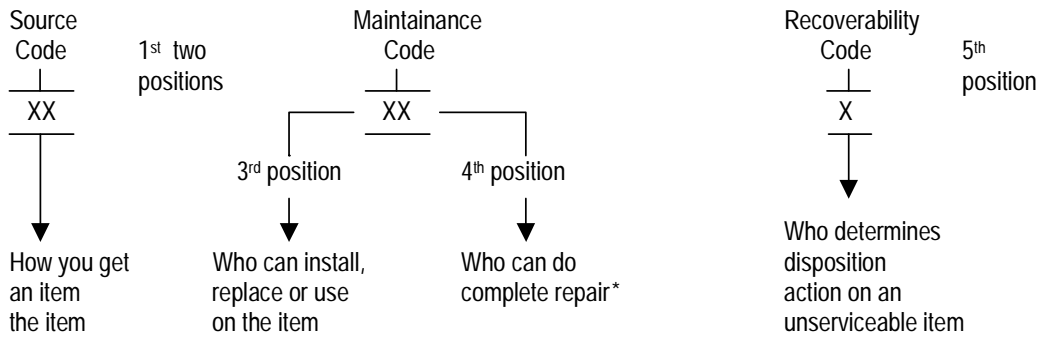
b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

c. Section IV. Cross-reference Index. A list, in National Item Identification Number (NIIN) sequence, of all national stock numbered items appearing in the listing, followed by a list in alphanumeric 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.

3. Explanation of Columns (Section II and III).

a. ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

b. SMR CODE (Column (2)). The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instructions, as shown in the following breakout:



* Complete repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) Source Code. The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow:

Code	Explanation
------	-------------

PA	Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the third position of the SMR code.
PB	
PC**	
PD	
PE	
PF	
PR***	

NOTE:

- ** Items coded PC are subject to deterioration.
- *** Items coded PR are stocked items which have been replaced and procurement is not authorized (internal command coding). Consume existing stock.

KD	Items with these codes are not to be requested/requisitioned individually. They are part of kit which is authorized to the maintenance category indicated in the third position of the SMR code. The complete kit must be requisitioned and applied.
KF	
KB	

Code	Explanation
MO - (Made at org/AVUM level)	Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by NSN in the DESCRIPTION AND USABLE ON CODE (UOC) column. If the item is authorized to you by the third position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.
MF - (Made at DS/AVIM level)	
MH - (Made at GS level)	
ML - (Made at Specialized Repair Act (SRA))	
MD - (Made at Depot)	

AO - Assembled by org/AVUM category	Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the third position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.
AF - Assembled by DS/AVIM category	
AH - Assembled by GS category	
AL - Assembled by SRA	
AD - Assembled by Depot	

XA- Do not requisition an "XA" coded item. Order its next higher assembly. (Also, refer to the NOTE below.)

XB- If an "XB" item is not available from salvage, order it using the CAGEC and part number given.

XC- Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.

XD - Item is not stocked. Order an "XD"-coded item through normal supply channels, using the CAGEC and part number given, if no NSN is available.

NOTE: Cannibalization or controlled exchange, when authorized, may be used as a source of supply or items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 700-42.

(2) Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

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

Code	Application/Explanation
------	-------------------------

- C - Crew or operator maintenance done within organizational or aviation maintenance.
- O - Organizational or aviation unit level can remove, replace, and use the item.
- F - Direct support or aviation intermediate level can remove, replace, and use the item.
- H - General support level can remove, replace, and use the item.
- L - Specialized repair activity can remove, replace, and use the item.
- D - Depot level can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., perform all authorized repair functions). (NOTE: Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.) This position will contain one of the following maintenance codes:

Code	Application/Explanation
------	-------------------------

- O - Organizational or aviation unit is the lowest level that can do complete repair of the item.
- F - Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
- H - General support is the lowest level that can do complete repair of the item.
- L - Specialized repair activity (designate the specialized repair activity) is the lowest level that can do complete repair of the item.
- D - Depot is the lowest level that can do complete repair of the item.
- Z - Nonreparable. No repair is authorized.
- B - No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B" coded item.) However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

(3) Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR Code as follows:

Recoverability
Codes

Application/Explanation

- Z - Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of SMR code.
- O - Reparable item. When uneconomically reparable, condemn and dispose of the item at organizational or aviation unit level.
- F - Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support or aviation intermediate level.
- H - Reparable item. When uneconomically reparable, condemn and dispose of the item at general support level.
- D - Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
- L - Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
- A - Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. CAGEC (Column (3)). The commercial and Government entity code is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency/activity that supplies the item.

d. PART NUMBER (Column (4)). 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, specification standards, and inspection requirements to identify an item or range of items.

NOTE: When you use an NSN to requisition an item, the item you receive may have a different part number from the part ordered.

e. DESCRIPTION AND USABLE ON CODE (UOC) (Column 5). This column includes the following information:

- (1) The federal item name and, when required, a minimum description to identify the item.
- (2) The physical security classification is not applicable.
- (3) Items that are included in kits and sets are listed below the name of the kit or set.
- (4) Spare/repair parts that make an assembled item are listed immediately following the assembled item line entry.
- (5) Part numbers for bulk materials are referenced in the line item entry for the item to be manufactured/fabricated.
- (6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).
- (7) The USABLE ON CODE, when applicable (see paragraph 5, Special Information).

(8) In the Special Tools List section, the Basis of Issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipment supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.

(9) The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section III.

f. QTY (Column (6)). The QTY (quantity per figure column) 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 the quantity is variable and the quantity may vary from application to application.

4. Explanation of Columns (Section IV).

a. NATIONAL STOCK NUMBER (NSN) INDEX.

(1) STOCK NUMBER column. This column lists the NSN by national item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN

NSN

(i.e., 5305-01-674-1467). When using this column to locate an item, NIIN ignore the first

NIIN

four digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

(2) FIG. column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Section II and Section III.

(3) ITEM column. The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

b. PART NUMBER INDEX. Part numbers in this index are listed by part number in ascending alphanumeric sequence (i.e., vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

(1) CAGEC column. The commercial and Government entity code is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(2) PART NUMBER column. Indicates the primary number used by the manufacturer (individual, 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.

(3) STOCK NUMBER column. This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and columns to the left.

(4) FIG. column. This column lists the number of the figure where the item is identified/located in Section II and III.

(5) ITEM column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

c. FIGURE AND ITEM NUMBER INDEX. Not applicable.

5. Special Information.

a. USABLE ON CODE. The usable on code appears in the lower left corner of the Description column heading. Usable on codes are shown as "UOC:" in the Description Column (justified left) on the first line applicable item description/ nomenclature. Uncoded items are applicable to all models. Identification of the usable on codes used in the RPSTL are:

<u>CODE</u>	<u>USED ON</u>	<u>CODE</u>	<u>USED ON</u>
PA3	13082385	P13	13083619
PA4	13082387	P14	13083620
PA5	13083610	P15	13083621
PA6	13083611	P16	13083622
PA7	13083613-19	P17	13083624
PA9	13083614	P18	13083625
P10	13083615	P19	13083616
P11	13083617	P20	13083608
P12	13083618	P21	13083612
		P40	13231276

b. FABRICATION INSTRUCTIONS. Part numbers for bulk materials are referenced in the description column of the line item entry for the item to be manufactured/ fabricated. Detailed fabrication instructions for items source coded to be manufactured or fabricated are found in TM 9-8145-476-23.

c. ASSEMBLY INSTRUCTIONS. Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are found in TM 9-8145-476-23. Items that make up the assembly are listed immediately following the assembly item entry or reference is made to an applicable figure.

d. KITS. Not applicable.

e. INDEX NUMBERS. Not applicable.

f. ASSOCIATED PUBLICATIONS.

<u>PUBLICATION</u>	<u>SHORT TITLE</u>
--------------------	--------------------

TM 1-8145-476-23	AVUM & AVIM Maintenance, Shipping and Storage Containers
------------------	--

g. ILLUSTRATIONS - LISTING. Higher - category RPSTL illustrations are not applicable.

6. How to Locate Repair Parts.

a. When National Stock Number or Part Number is Not Known:

(1) First. Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) Second. Find the figure covering the assembly group or subassembly group to which the item belongs.

(3) Third. Identify the item on the figure and use the Part Number Index to find the NSN.

b. When National Stock Number or Part Number is Known:

(1) First. Using the National Stock Number and Part Number Index, find the pertinent national stock number or part number. The NSN index is in National Item Identification Number (NIIN) sequence (see 4a (1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see 4b). Both indexes cross-reference you to the illustration/figure and item number of the item you are looking for.

(2) Second. Turn to the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

7. Abbreviations.

<u>Abbreviation</u>	<u>Explanation</u>
BOI	Basis of Issue
CAGEC	Commercial and Government Entity Code
MAC	Maintenance Allocation Chart
NIIN	National Item Identification Number (consists of the last nine digits of the NSN)
NSN	National Stock Number
PNVS	Pilot Night Vision Sensor
RPSTL	Repair Parts and Special Tools List
SMR	Source, Maintenance, and Recoverability

REPAIR PARTS LIST

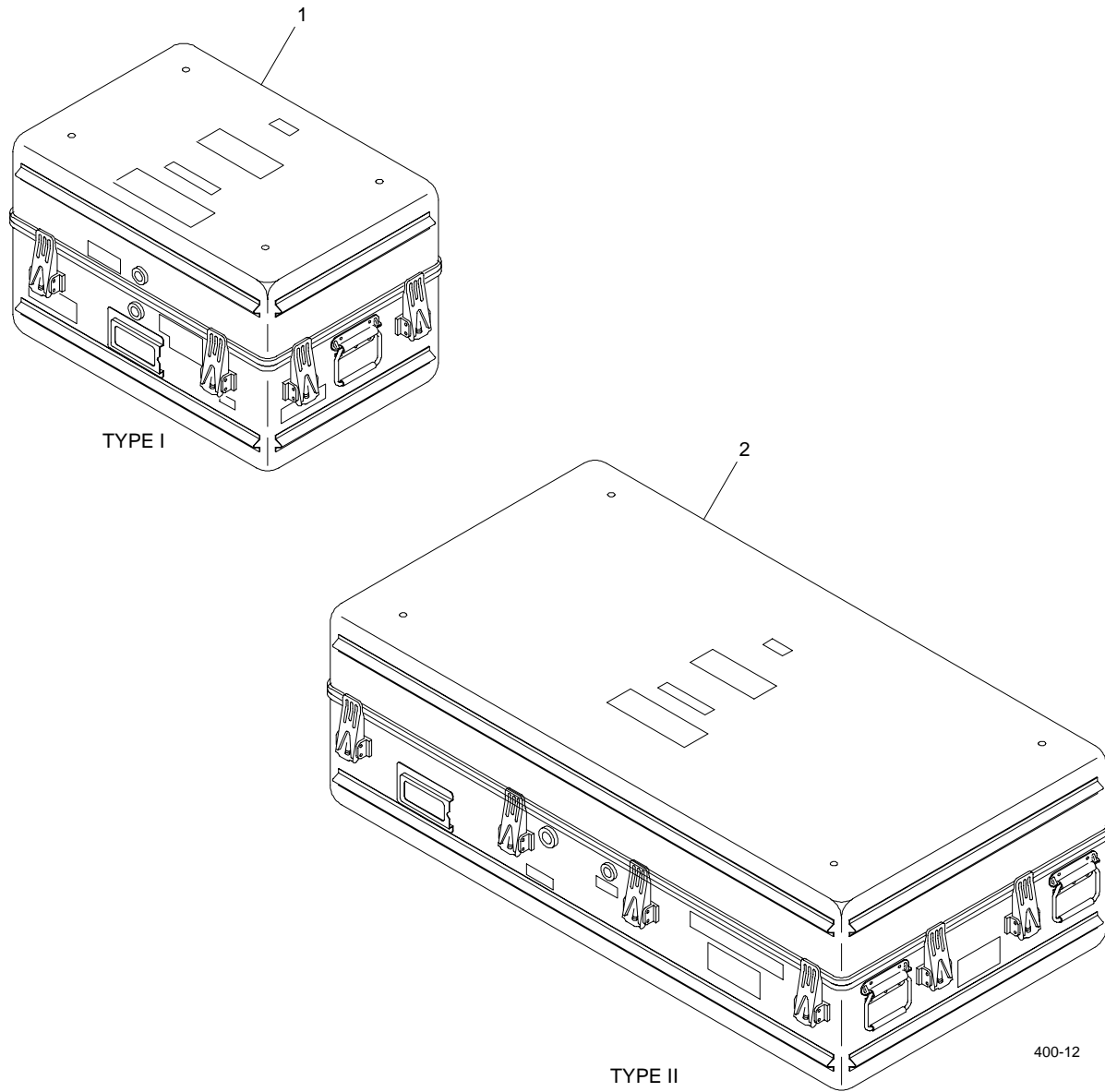
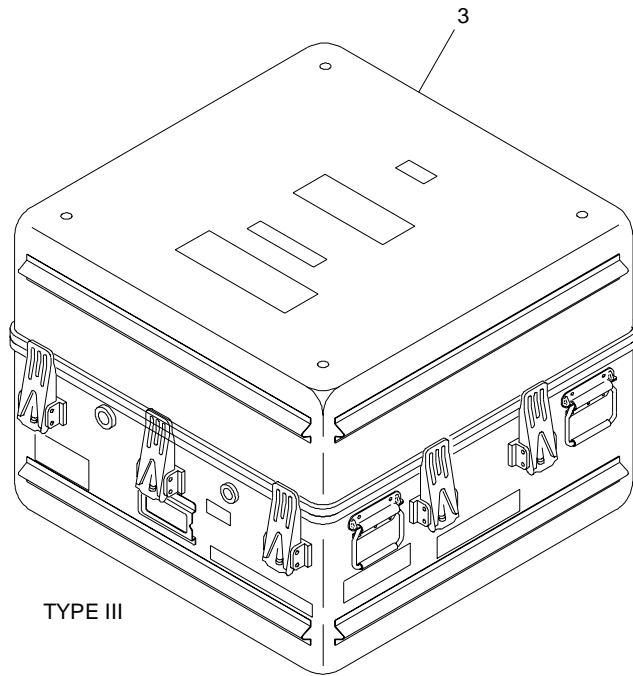
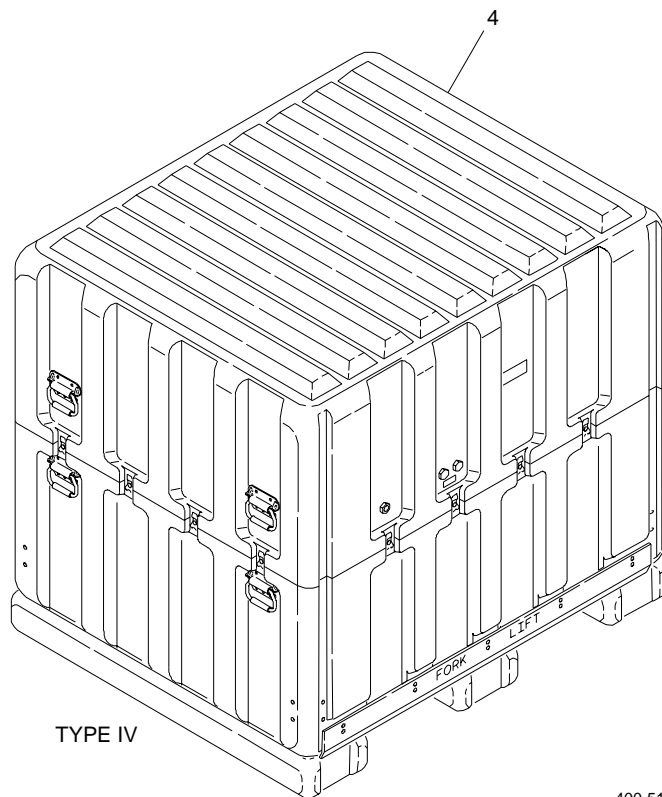


Figure 1. TADS/PNVS Shipping and Storage Containers (Group 00)
(Sheet 1 of 2)

(1) ITEM NO.	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
1	PEODD	04939	13083613-19	GROUP : 00 TADS/PNVS CONTAINERS FIG. 1 TADS/PNVS SHIPPING AND STORAGE CONTAINERS .SHIPPING/STORAGE CONTAINER, TYPE 1 SEE FIG 2 ASSY BKDN	1
1	PEODD	04939	13083614	UOC: PA7 .SHIPPING/STORAGE CONTAINER, TYPE 1 SEE FIG 2 ASSY BKDN.....	1
1	PEODD	04939	13083615	UOC: PA9 .CONTAINER, LASER, TYPE 1 SEE FIG 2 ASSY BKDN	1
1	PEODD	04939	13083616	UOC: P10 .SHIPPING/STORAGE CONTAINER, TYPE I SEE FIG 2 ASSY BKDN.....	1
1	PEODD	04939	13083618	UOC: P19 .SHIPPING/STORAGE CONTAINER, TYPE I SEE FIG 2 ASSY BKDN.....	1
1	PEODD	04939	13083619	UOC: P12 .SHIPPING/STORAGE CONTAINER, TYPE I SEE FIG 2 ASSY BKDN	1
1	PEODD	04939	13083620	UOC: P13 .CONTAINER, TV SENSOR, TYPE I SEE FIG 2 ASSY BKDN.....	1
1	PEODD	04939	13083621	UOC: P14 .SHIPPING/STORAGE CONTAINER, TYPE I SEE FIG 2 ASSY BKDN.....	1
1	PEODD	04939	13083622	UOC: P15 .SHIPPING/STORAGE CONTAINER, TYPE I SEE FIG 2 ASSY BKDN	1
1	PEODD	04939	13083624	UOC: P16 .SHIPPING/STORAGE CONTAINER, TYPE I SEE FIG 2 ASSY BKDN	1
2	PEODD	04939	13083617	UOC: P17 .SHIPPING/STORAGE CONTAINER, TYPE II SEE FIG 3 ASSY BKDN.....	1
				UOC: P11	



TYPE III

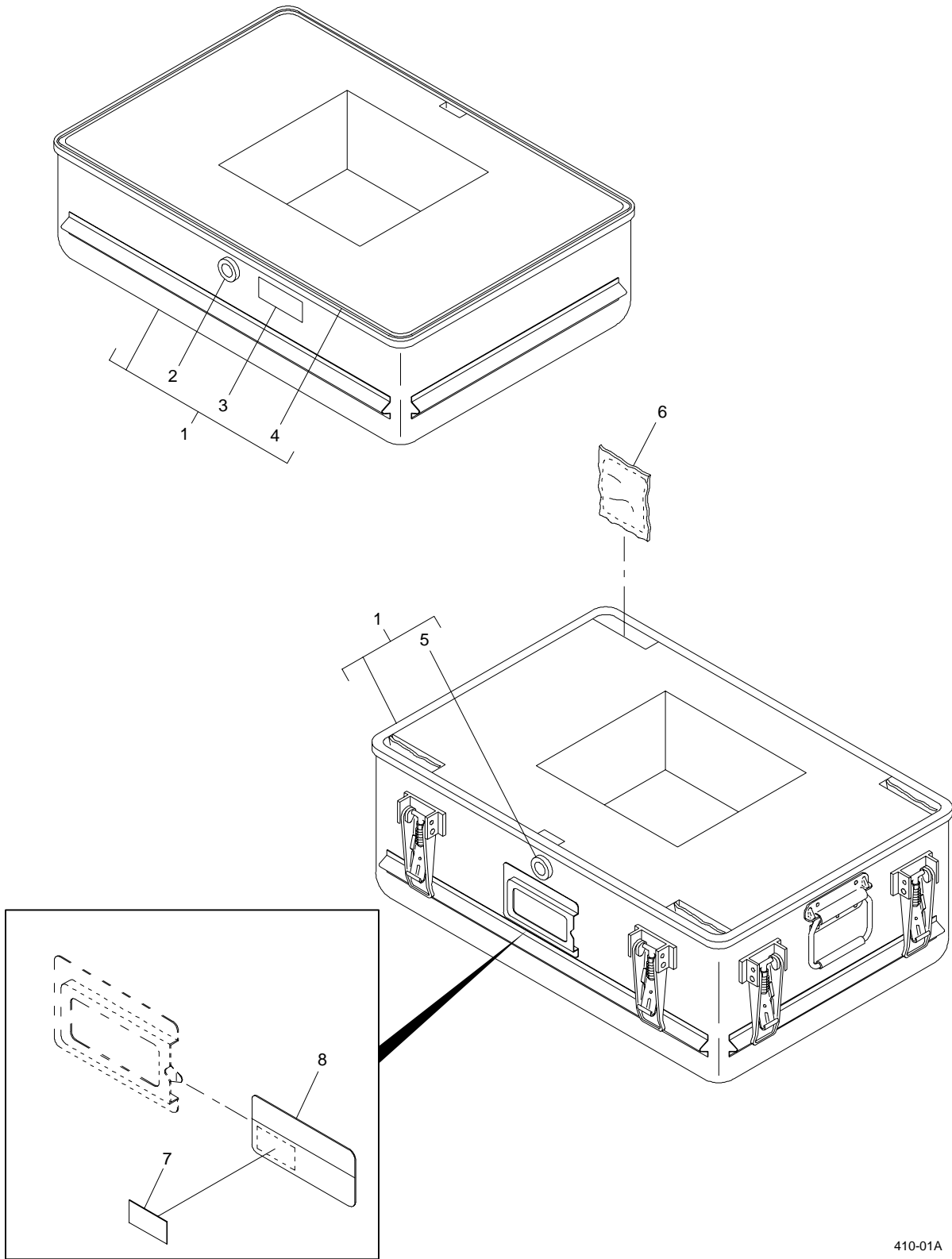


TYPE IV

400-51

Figure 1. TADS/PNVS Shipping and Storage Containers (Group 00)
(Sheet 2 of 2)

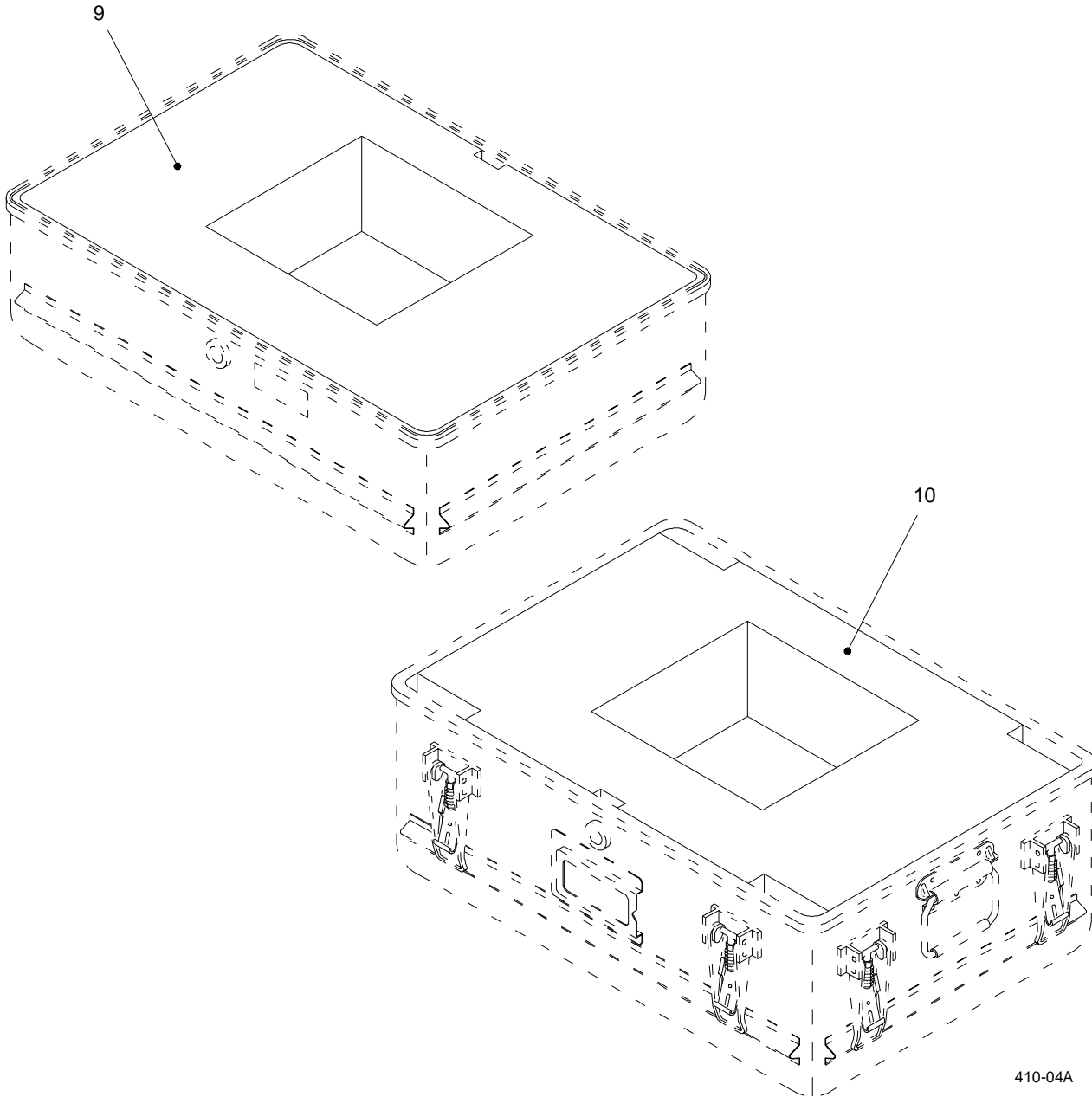
(1) ITEM NO.	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
3	PEODD	04939	13082385	.SHIPPING/STORAGE CONTAINER, TYPE III SEE FIG 4 ASSY BKDN..... UOC: PA3	1
3	PEODD	04939	13082387	.SHIPPING/STORAGE CONTAINER, TYPE III SEE FIG 4 ASSY BKDN UOC: PA4	1
3	PEODD	04939	13083608	.SHIPPING/STORAGE CONTAINER, TYPE III SEE FIG 4 ASSY BKDN UOC: P20	1
3	PEODD	04939	13083610	.SHIPPING/STORAGE CONTAINER, TYPE III SEE FIG 4 ASSY BKDN UOC: PA5	1
3	PEODD	04939	13083611	.SHIPPING/STORAGE CONTAINER, TYPE III SEE FIG 4 ASSY BKDN UOC: PA6	1
3	PEODD	04939	13083612	.SHIPPING/STORAGE CONTAINER, TYPE III SEE FIG 4 ASSY BKDN UOC: P21	1
3	PEODD	04939	13083625	.SHIPPING AND STORAGE CONTAINER, TYPE III SEE FIG 4 ASSY BKDN UOC: P18	1
4	PEFFF	04939	13231276	.SHIPPING/STORAGE CONTAINER, TYPE IV SEE FIG 8 ASSY BKDN UOC: P40	1
END OF FIGURE					



410-01A

Figure 2. Type I Shipping/Storage Containers (13083613-19, 13083614, 13083615, 13083616, 13083618, 13083619, 13083620, 13083621, 13083622, & 13083624) (Group 04) (Sheet 1 of 2)

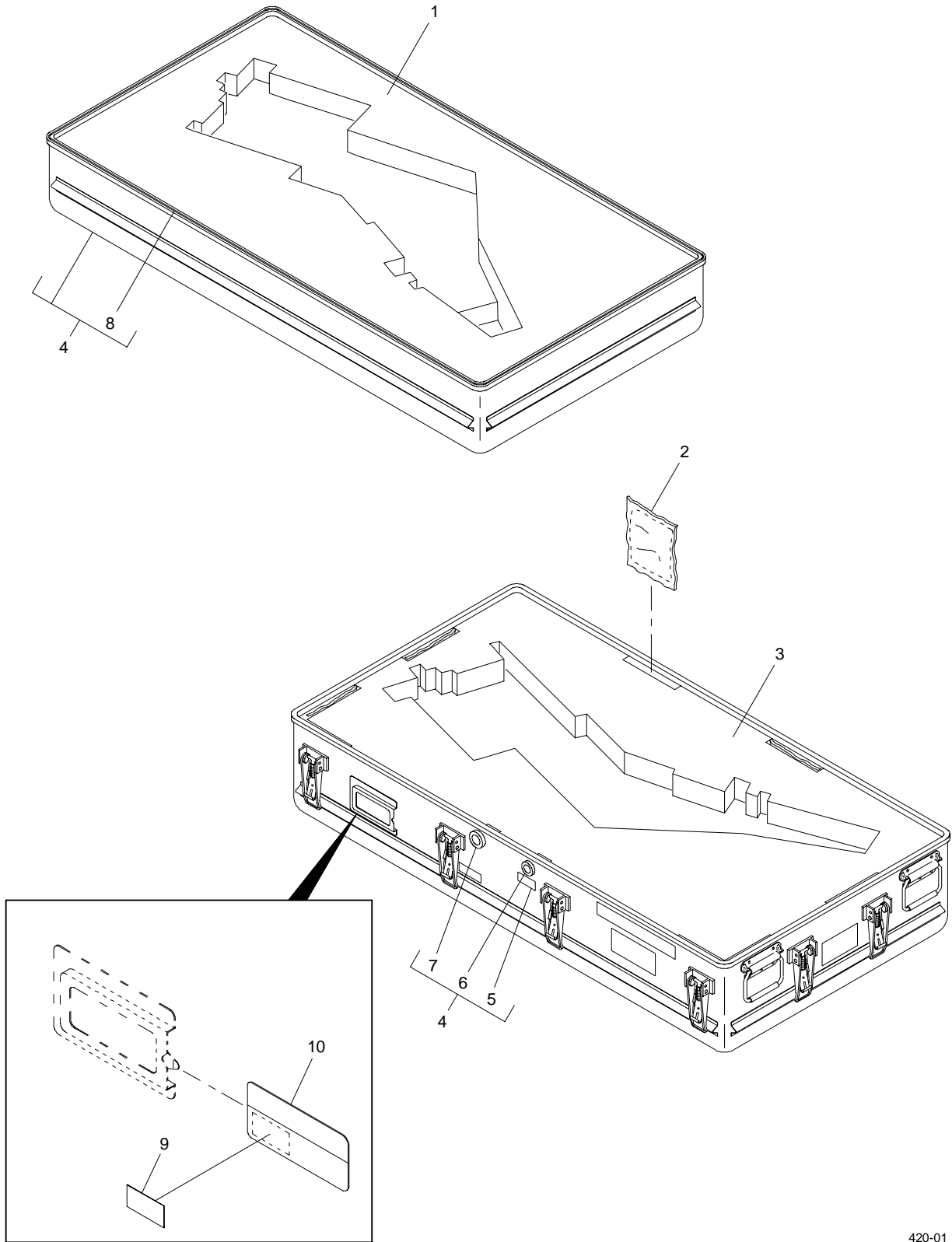
(1) ITEM NO.	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP: 04 TYPE I CONTAINER FIG. 2 TYPE I SHIPPING/STORAGE CONTAINERS 13083613-19, 13083614, 13083615, 13083616, 13083618, 13083619, 13083620, 13083621, 13083622, 13083624 (04939)	
1	XDFDD	04939	13083643	.CONTAINER, SHIPPING/STORAGE UOC: PA7, PA9, P10, P12-P17, P19	1
2	PAFZZ	19178	ZSP6-037-6	..VALVE, RELIEF..... UOC: PA7, PA9, P10, P12-P17, P19	1
3	XDFZZ	19178	ZSP11-1108	..LABEL, ADHESIVE UOC: PA7, PA9, P10, P12-P17, P19	1
4	PAFZZ	81348	ZZR765BCL3BGR60	..GASKET, RUBBER, SILICONE V	
			TBG0.250DX0.062WT	UOC: PA7, PA9, P10, P12-P17, P19	
5	PAFZZ	19178	ZSP6-608	..INDICATOR, HUMIDITY UOC: PA7, PA9, P10, P12-P17, P19	1
6	PAFZZ	81349	MILD3464TY2UT4BG	..DESICCANT, ACTIVE UOC: PA7, PA9, P10, P12-P17, P19	4
7	XDFZZ	04939	13231543	.PLATE, IDENTIFICATION..... UOC: PA7, PA9, P10, P12-P17, P19	1
8	XDFZZ	04939	13082384-7	.PLATE, IDENTIFICATION..... UOC: PA7	1
8	XDFZZ	04939	13082384-8	.PLATE, IDENTIFICATION..... UOC: PA9	1
8	XDFZZ	04939	13082384-11	.PLATE, IDENTIFICATION..... UOC: P10	1
8	XDFZZ	04939	13082384-12	.PLATE, IDENTIFICATION..... UOC: P19	1
8	XDFZZ	04939	13082384-14	.PLATE, IDENTIFICATION..... UOC: P12	1
8	XDFZZ	04939	13082384-15	.PLATE, IDENTIFICATION..... UOC: P13	1
8	XDFZZ	04939	13082384-16	.PLATE, IDENTIFICATION..... UOC: P14	1
8	XDFZZ	04939	13082384-17	.PLATE, IDENTIFICATION..... UOC: P15	1
8	XDFZZ	04939	13082384-18	.PLATE, IDENTIFICATION..... UOC: P16	1
8	XDFZZ	04939	13082384-21	.PLATE, IDENTIFICATION..... UOC: P17	1
				END OF FIGURE	



410-04A

Figure 2. Type I Shipping and Storage Containers (13083613-19, 13083604, 13083615, 13083616, 13083618, 13083619, 13083620, 13083621, 13083622, & 13083624) (Group 04) (Sheet 2 of 2)

(1) ITEM NO.	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
9	PAFZZ	04939	13083569-2	.CUSHIONING MATERIAL UOC: PA7	1
9	PAFZZ	04939	13083572	.CUSHIONING MATERIAL UOC: PA9	1
9	PAFZZ	04939	13083574	.CUSHIONING MATERIAL UOC: P10	1
9	PAFZZ	04939	13083576	.CUSHIONING MATERIAL UOC: P19	1
9	PAFZZ	04939	13083580	.CUSHIONING MATERIAL UOC: P12	1
9	PAFZZ	04939	13083582	.CUSHIONING MATERIAL UOC: P13	1
9	PAFZZ	04939	13083584	.CUSHIONING MATERIAL UOC: P14	1
9	PAFZZ	04939	13083586	.CUSHIONING MATERIAL UOC: P15	1
9	PAFZZ	04939	13083588	.CUSHIONING MATERIAL UOC: P16	1
9	PAFZZ	04939	13083592	.CUSHIONING MATERIAL UOC: P17	1
10	PAFZZ	04939	13083570-2	.CUSHIONING MATERIAL UOC: PA7	1
10	PAFZZ	04939	13083571	.CUSHIONING MATERIAL UOC: PA9	1
10	PAFZZ	04939	13083573	.CUSHIONING MATERIAL UOC: P10	1
10	PAFZZ	04939	13083575	.CUSHIONING MATERIAL UOC: P19	1
10	PAFZZ	04939	13083579	.CUSHIONING MATERIAL UOC: P12	1
10	PAFZZ	04939	13083581	.CUSHIONING MATERIAL UOC: P13	1
10	PAFZZ	04939	13083583	.CUSHIONING MATERIAL UOC: P14	1
10	PAFZZ	04939	13083585	.CUSHIONING MATERIAL UOC: P15	1
10	PAFZZ	04939	13083587	.CUSHIONING MATERIAL UOC: P16	1
10	PAFZZ	04939	13083591	.CUSHIONING MATERIAL UOC: P17	1
END OF FIGURE					



420-01

Figure 3. Type II Shipping/Storage Container (13083617) (Group 08)

(1) ITEM NO.	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP: 08 TYPE II CONTAINER FIG. 3 TYPE II SHIPPING/STORAGE CONTAINER 13083617 (04939)	
1	PAFZZ	04939	13083578	.CUSHIONING MATERIAL..... UOC: P11	1
2	PAFZZ	81349	MILD3464TY2UT4BG	.DESICCANT, ACTIVE UOC: P11	1
3	PAFZZ	04939	13083577	.CUSHIONING MATERIAL UOC: P11	1
4	XDFDD	04939	13083644	.CONTAINER, SHIPPING/STORAGE UOC: P11	1
5	XDFZZ	19178	ZSP11-1108	..LABEL, ADHESIVE UOC: P11	1
6	PAFZZ	19178	ZSP6-608	..INDICATOR, HUMIDITY UOC: P11	1
7	PAFZZ	19178	ZSP6-037-6	..VALVE, RELIEF UOC: P11	1
8	PAFZZ	81348	ZZR765BCL3BGR60	..GASKET, RUBBER, SILICONE UOC: P11	V
9	XDFZZ	04939	TBG0.250DX0.062WT 13231543	.PLATE, IDENTIFICATION UOC: P11	1
10	XDFZZ	04939	13082384-13	.PLATE, IDENTIFICATION UOC: P11	1
END OF FIGURE					

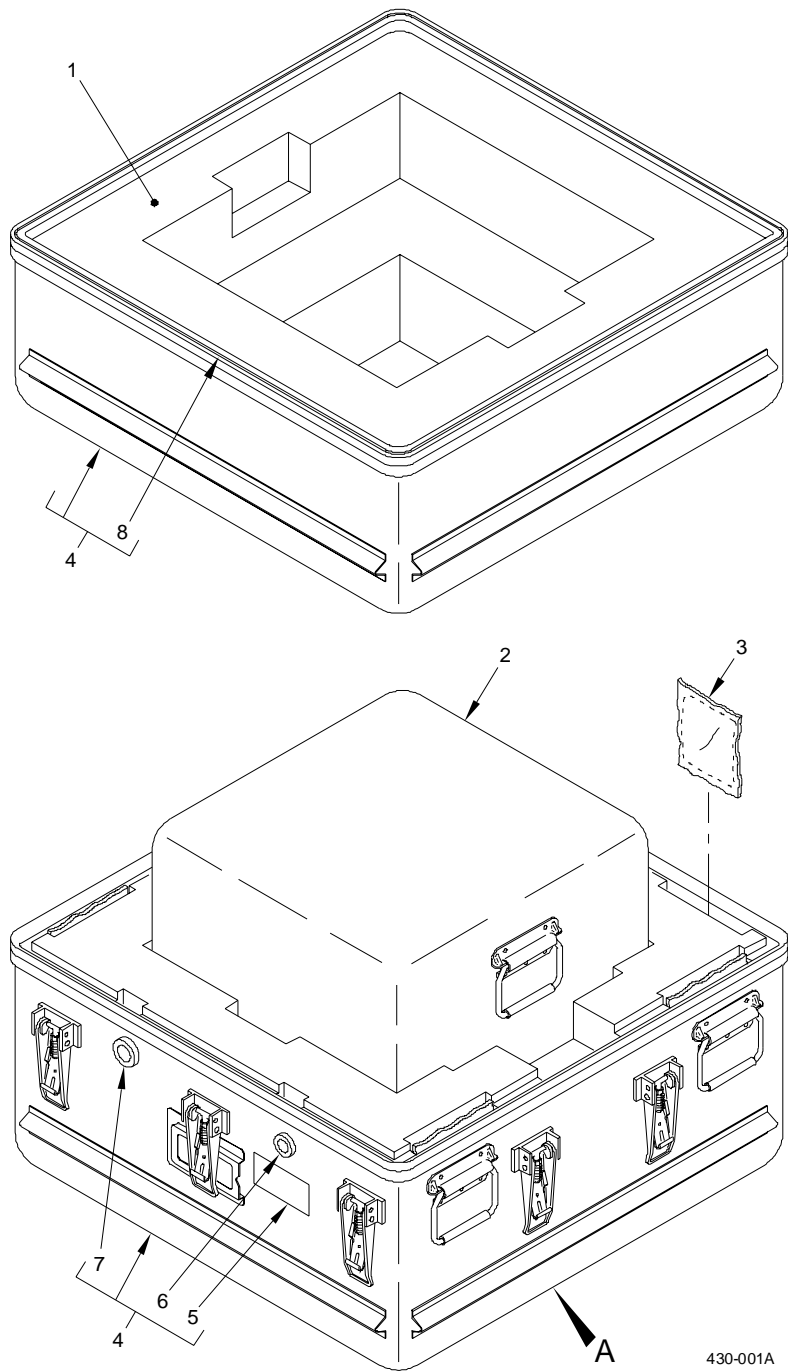
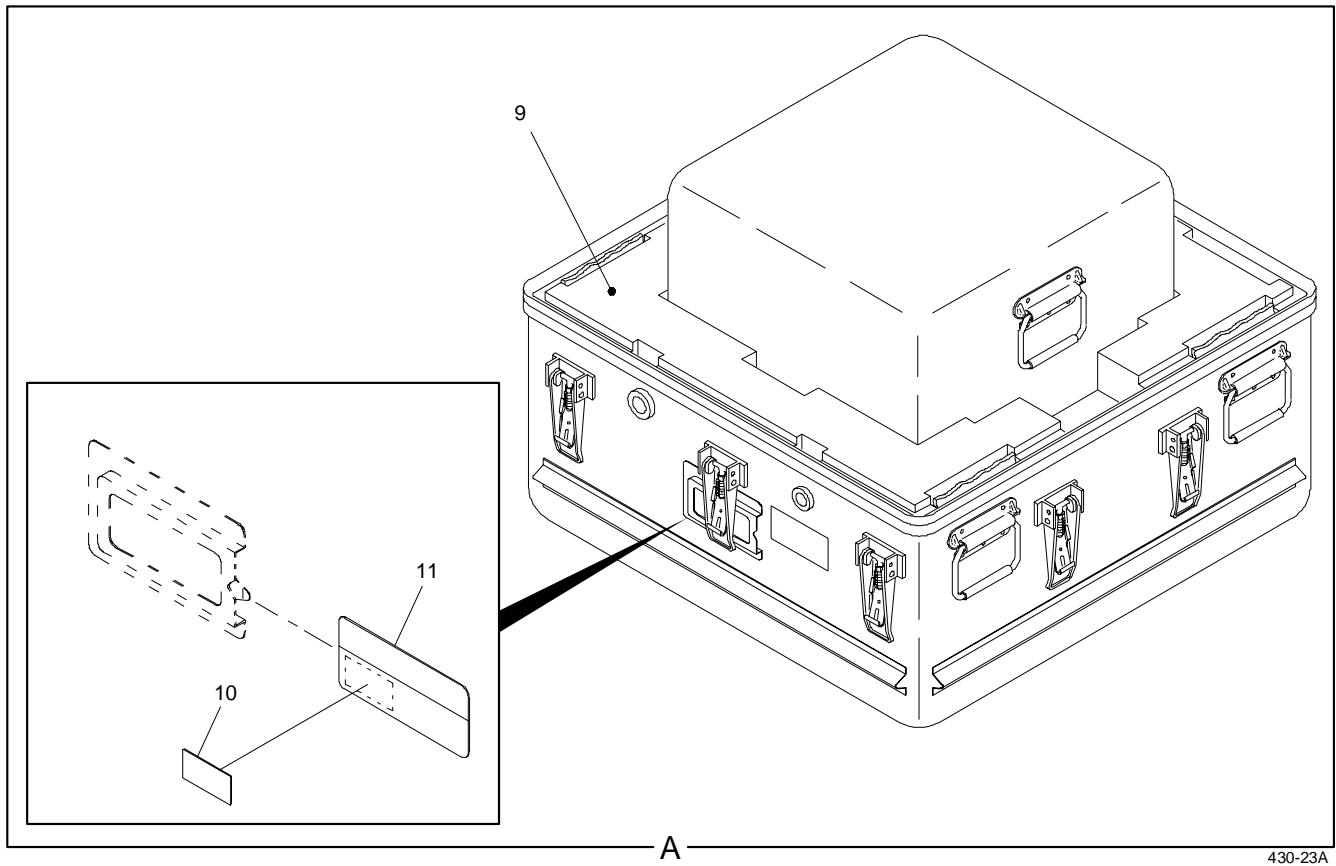


Figure 4. Type III Shipping/Storage Containers (13082385, 13082387, 13083608, 13083610, 13083611, 13083612, & 13083625) (Group 12) (Sheet 1 of 2)

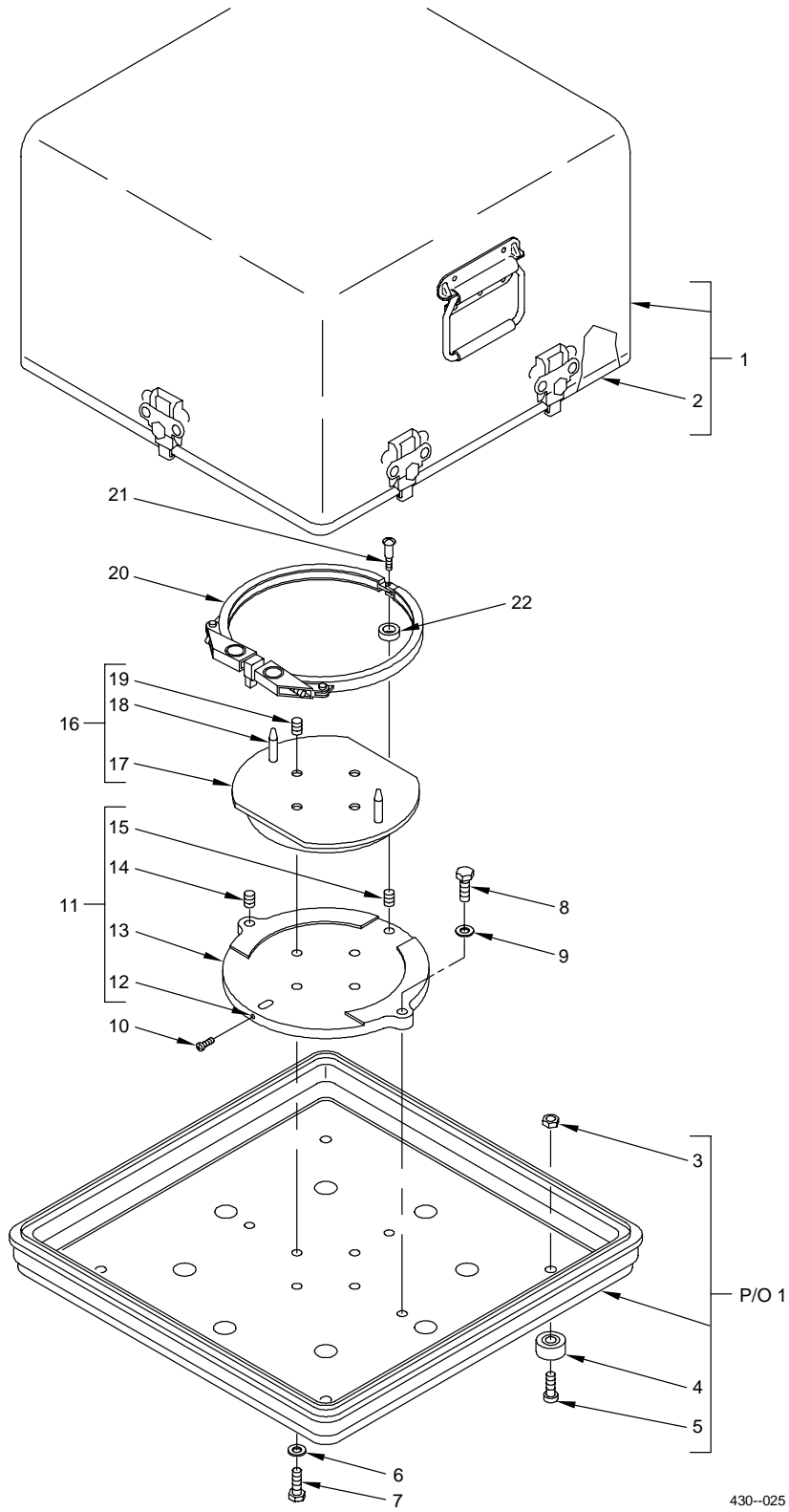
(1) ITEM NO.	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP: 12 TYPE III CONTAINER FIG. 4 TYPE III SHIPPING/STORAGE CONTAINERS 13082385, 13082387, 13083608, 13083610, 13083611, 13083612, 13083625 (04939)	
1	PAFZZ	04939	13082389	.CUSHION, FILLER	1
				UOC: PA3, PA4	
1	PAFZZ	04939	13083561	.CUSHIONING MATERIAL	1
				UOC: P20	
1	PAFZZ	04939	13083565	.CUSHIONING MATERIAL	1
				UOC: PA5	
1	PAFZZ	04939	13083632	.CUSHIONING MATERIAL	1
				UOC: PA6	
1	PAFZZ	04939	13083568	.CUSHIONING MATERIAL	1
				UOC: P21	
1	PAFZZ	04939	13083594	.CUSHIONING MATERIAL	1
				UOC: P18	
2	XDFFF	04939	13231940-9	.CASE AND CLAMP ASSEMBLY SEE FIG 5 ASSY BKDN	1
				UOC: PA3, PA4	
2	XDFFF	04939	13082420	.CASE AND CLAMP ASSEMBLY SEE FIG 6 ASSY BKDN (ALT).....	1
				UOC: PA3, PA4	
3	PAFZZ	81349	MILD3464TY2UT4BG	.DESICCANT, ACTIVE	10
				UOC: PA3, PA4, PA5, PA6, P18, P21	
3	PAFZZ	81349	MILD3464TY2UT4BG	.DESICCANT, ACTIVE	6
				UOC: P20	
4	XDFDD	04939	13083645	.CONTAINER, SHIPPING/STORAGE	1
				UOC: PA3, PA4, PA5, PA6, P18, P20, P21	
5	XDFZZ	19178	ZSP11-1108	..LABEL, ADHESIVE	1
				UOC: PA3, PA4, PA5, PA6, P18, P20, P21	
6	PAFZZ	19178	ZSP6-037-6	..VALVE, RELIEF (U/W ZERO CONTAINER)	1
				UOC: PA3, PA4, PA5, PA6, P18, P20, P21	
6	PAFZZ	54278	TA238-837-6	..VALVE, RELIEF (U/W METRICASE CONTAINER)	1
				UOC: PA3, PA4, PA5, PA6, P18, P20, P21	
7	PAFZZ	19178	ZSP6-608	..INDICATOR, HUMIDITY	1
				UOC: PA3, PA4, PA5, PA6, P18, P20, P21	
8	PAFZZ	81348	ZZR765BCL3BGR60 TBG0.250DX0.062WT	..GASKET, RUBBER, SILICONE	V
				END OF FIGURE	



430-23A

Figure 4. Type III Shipping/Storage Containers (13082385, 13082387, 13083608, 13083610, 13083611, 13083612, & 13083625) (Group 12) (Sheet 2 of 2)

(1) ITEM NO.	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
9	PAFZZ	04939	13082388	.CUSHIONING MATERIAL UOC: PA3, PA4	1
9	PAFZZ	04939	13083560	.CUSHIONING MATERIAL UOC: P20	1
9	PAFZZ	04939	13083564	.CUSHIONING MATERIAL UOC: PA5	1
9	PAFZZ	04939	13083566	.CUSHIONING MATERIAL UOC: PA6	1
9	PAFZZ	04939	13083567	.CUSHIONING MATERIAL..... UOC: P21	1
9	PAFZZ	04939	13083593	.CUSHIONING MATERIAL UOC: P18	1
10	XDFZZ	04939	13231543	.PLATE, IDENTIFICATION UOC: PA3, PA4, PA5, PA6, P18, P20, P21	1
11	XDFZZ	04939	13082384	.PLATE, IDENTIFICATION UOC: PA3	1
11	XDFZZ	04939	13082384-3	.PLATE, IDENTIFICATION UOC: PA4	1
11	XDFZZ	04939	13082384-2	.PLATE, IDENTIFICATION UOC: P20	1
11	XDFZZ	04939	13082384-4	.PLATE, IDENTIFICATION UOC: PA5	1
11	XDFZZ	04939	13082384-5	.PLATE, IDENTIFICATION UOC: PA6	1
11	XDFZZ	04939	13082384-6	.PLATE, IDENTIFICATION UOC: P21	1
11	XDFZZ	04939	13082384-22	.PLATE, IDENTIFICATION UOC: P18	1
END OF FIGURE					



430-025

Figure 5. Case and Clamp Assembly (13231940-9) (Group 1204)

(1) ITEM NO.	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP: 1204 TYPE III CONTAINER FIG. 5 CASE AND CLAMP ASSEMBLY 13231940-9 (04939) (UOC: PA3, PA4)	
1	XDFFF	04939	13082290	.CASE ASSEMBLY.....	1
1	XDFFF	04939	13082290-2	.CASE ASSEMBLY (ALT).....	1
2	PAFZZ	81348	ZZR765BCL3BGR60 TBG0.250DX0.062WT	..GASKET, RUBBER, SILICONE	V
3	PAFZZ	22599	52NTE-048	..NUT	4
4	PAFZZ	76385	ZB-1187M.I.	..BUMPER, NONMETALLIC	4
5	PAFZZ	96906	MS51958-83	..SCREW, MACHINE	4
6	PAFZZ	80205	NAS1149F0463P	.WASHER, FLAT	4
7	PAFZZ	88044	AN4-11A	.BOLT, MACHINE	4
8	PAFZZ	80205	NAS1351-3-8P	.SCREW, CAP, SOCKETTY HEAD	2
9	PAFZZ	80205	NAS43DD3-12N	.SPACER, SLEEVE-SCREW	2
10	PAFZZ	88044	AN565D6H6	.SETSCREW	1
11	XDFFF	04939	13231937	.PLATE, SPACER	1
12	PAFZZ	96906	MS21209C0615	..INSERT, SCREW THREAD	1
13	XAFZZ	04939	13231937-1	..PLATE, SPACER.....	1
14	PAFZZ	96906	MS21209F1-15	..INSERT, SCREW THREAD	2
15	PAFZZ	96906	MS21209C0815	..INSERT, SCREW THREAD	1
16	XDFFF	04939	13082289	.PLATE ASSEMBLY, MOUNTING	1
17	XAFZZ	04939	13082289-2	..PLATE, MOUNTING	1
18	PAFZZ	04939	13083404	..PIN, STRAIGHT, HEADLESS	2
19	PAFZZ	96906	MS21209F4-10	..INSERT, SCREW THREAD	4
20	PAFFF	04939	13075677	.CLAMP ASSEMBLY, GIMBAL SEE FIG 7 ASSY BKDN	1
21	PAFZZ	80205	NAS1218-08-8	.BOLT	1
22	PAFZZ	80205	NAS43DD4-12	.SPACER, SLEEVE	1
END OF FIGURE					

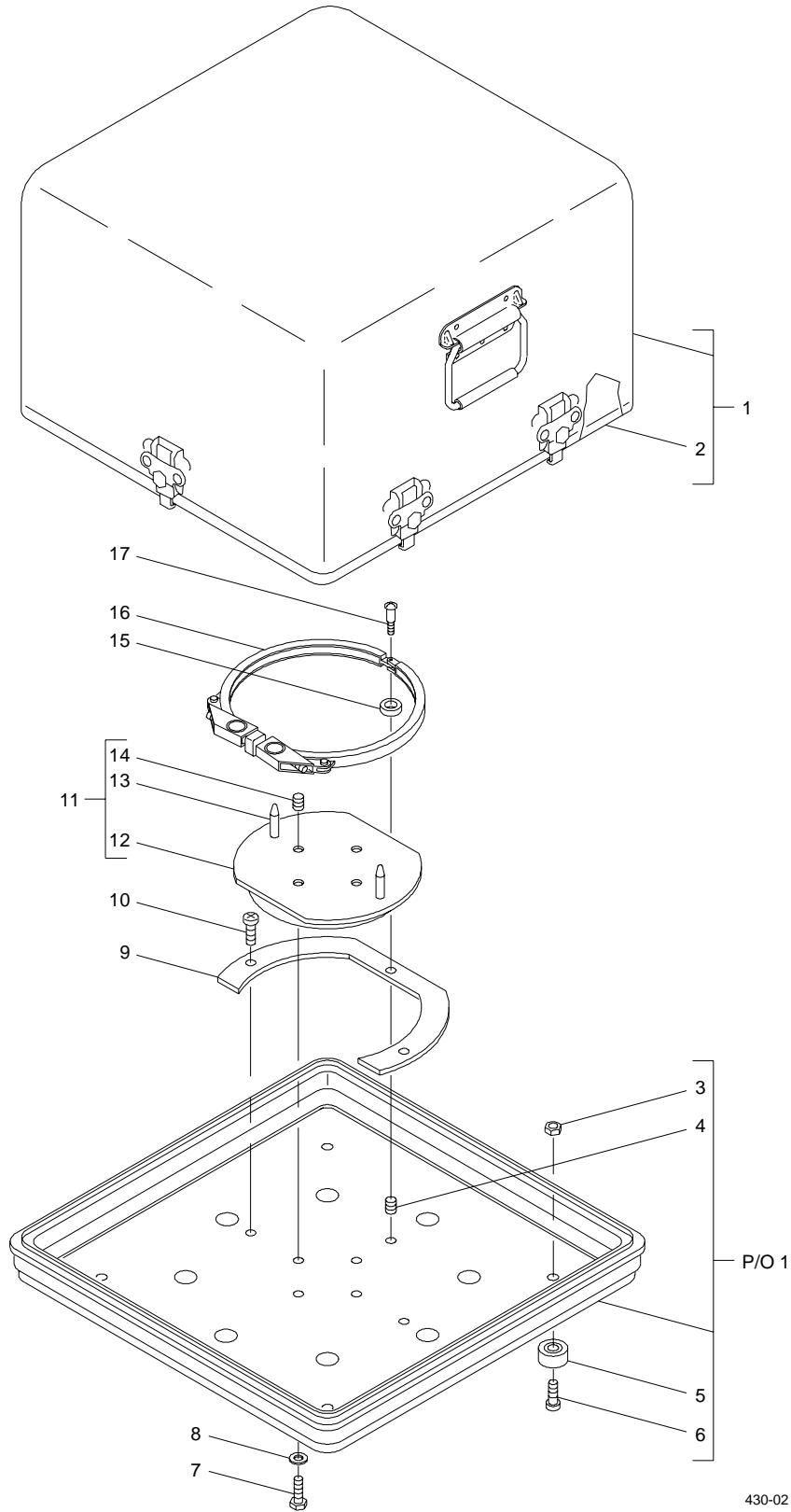
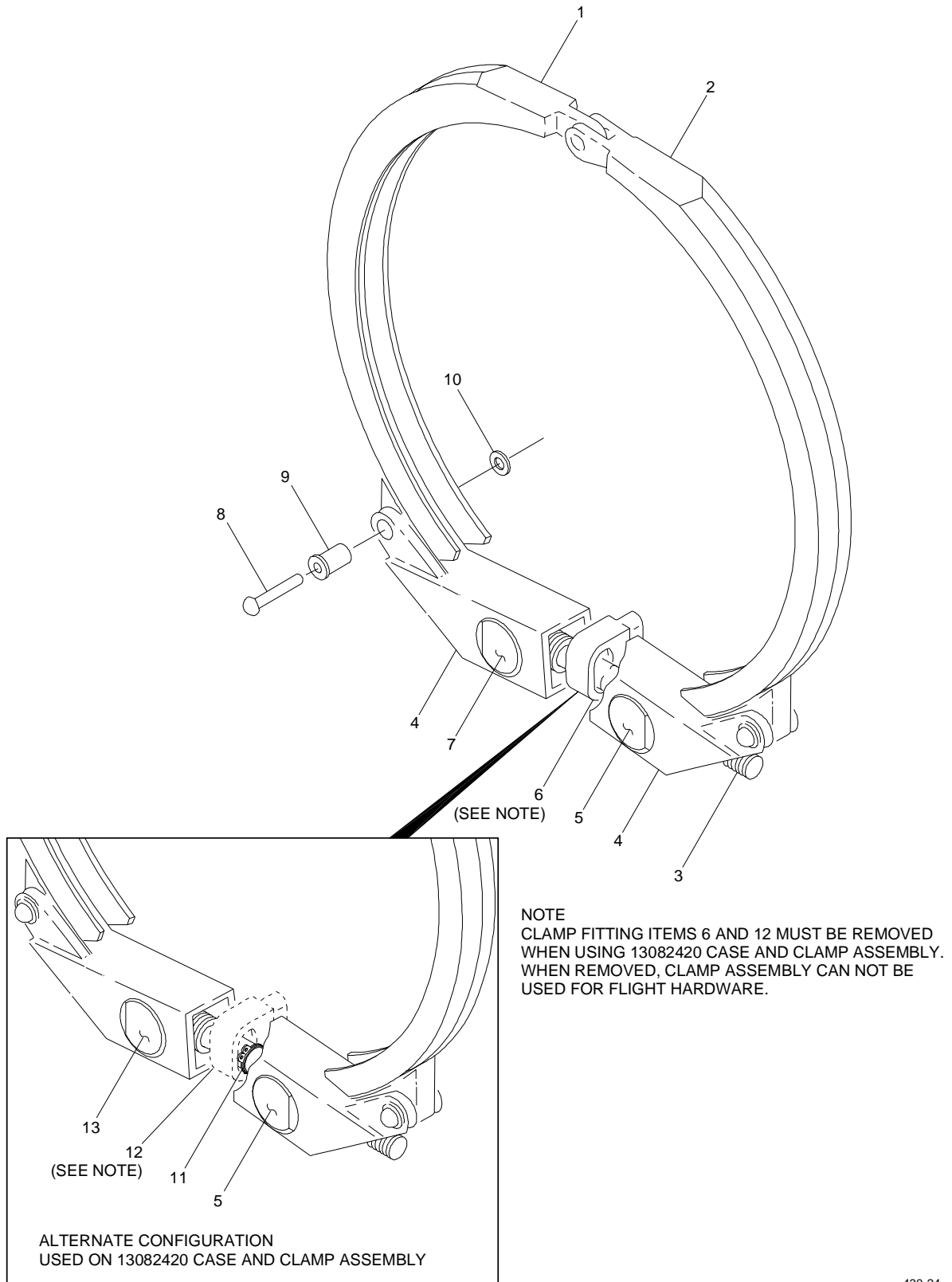


Figure 6. Case and Clamp Assembly (13082420) (Group 1204)

(1) ITEM NO.	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP: 1204 TYPE III CONTAINER FIG. 6 CASE AND CLAMP ASSEMBLY 13082420 (04939) (UOC: PA3, PA4)	
1	XDFFF	04939	13082290	.CASE ASSEMBLY	1
2	PAFZZ	81348	ZZR765BCL3BGR60 TBG0.250DX0.062WT	..GASKET, RUBBER, SILICONE	V
3	PAFZZ	22599	52NTE-048	..NUT.....	4
4	PAFZZ	96906	MS21209F1-15	..INSERT, SCREW THREAD	1
5	PAFZZ	76385	ZB-1187M.I.	..BUMPER, NONMETALLIC.....	4
6	PAFZZ	96906	MS51958-83	..SCREW, MACHINE	4
7	PAFZZ	88044	AN4-6A	.BOLT, MACHINE	4
8	PAFZZ	80205	NAS1149F0463P	.WASHER, FLAT	4
9	PAFZZ	04939	13080489	.PLATE, SUPPORT.....	1
10	PAFZZ	80205	NAS1351-6-10P	.SCREW, CAP, SOCKETHEAD	2
11	XDFFF	04939	13082289	.PLATE ASSEMBLY, MOUNTING	1
12	XAFZZ	04939	13082289-2	..PLATE, MOUNTING	1
13	PAFZZ	04939	13083404	..PIN, STRAIGHT, HEADLESS	2
14	PAFZZ	96906	MS21209F4-10	..INSERT, SCREW THREAD	4
15	PAFZZ	80205	NAS43DD4-12	.SPACER, SLEEVE	1
16	PAFFF	04939	13075677	.CLAMP ASSEMBLY, GIMBAL SEE FIG 7 ASSY BKDN	1
16	PAFFF	04939	13074657	.CLAMP ASSEMBLY, GIMBAL (ALT) SEE FIG 7 ASSY BKDN.....	1
17	PAFZZ	04939	13231822	.BOLT, SHOULDER	1
END OF FIGURE					



430-24

Figure 7. Clamp Assembly (13074657 and 13075677) (Group 120404)

(1) ITEM NO.	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP: 120404 TYPE III CONTAINER FIG. 7 CLAMP ASSEMBLY 13074657 & 13075677 (04939)	
1	XAFZZ	04939	13074661	.CLAMP, HALF GIMBAL SUPPORT UOC: PA3, PA4	1
2	XAFZZ	04939	13074658	.CLAMP, HALF GIMBAL SUPPORT UOC: PA3, PA4	1
3	PAFZZ	04939	13076419	.SHAFT, SHOULDERED (U/O 13075677) UOC: PA3, PA4	1
3	PAFZZ	04939	13074667	.SHAFT, SHOULDERED (U/O 13074657) UOC: PA3, PA4	1
4	PAFZZ	04939	13074662	.LINK, CLAMP UOC: PA3, PA4	2
5	PAFZZ	04939	13074675	.NUT ASSEMBLY, INSERT UOC: PA3, PA4	1
6	PAFZZ	04939	13075758	.FITTING, CLAMP (U/O 13075677) (NOT USED WHEN INSTALLED ON 13082420 CASE AND CLAMP ASSEMBLY) UOC: PA3, PA4	1
7	PAFZZ	04939	13076695	.NUT, SELF-LOCKING (U/O 13075677) UOC: PA3, PA4	1
8	PAFZZ	80205	NAS620-6	.WASHER, FLAT UOC: PA3, PA4	2
9	PAFZZ	96906	MS20615-4M9	.RIVET, SOLID UOC: PA3, PA4	2
10	PAFZZ	04939	13075310	.SPACER, SLEEVE UOC: PA3, PA4	2
11	PAFZZ	96906	MS16624-4031	.RING, RETAINING (U/O 13074657) UOC: PA3, PA4	1
12	PAFZZ	04939	13074739	.FITTING, GIMBAL (U/O 13074657) (NOT USED WHEN INSTALLED ON 13082420 CASE AND CLAMP ASSEMBLY) UOC: PA3, PA4	1
13	PAFZZ	04939	13074735	.CLAMP (U/O 13074657) UOC: PA3, PA4	1
				END OF FIGURE	

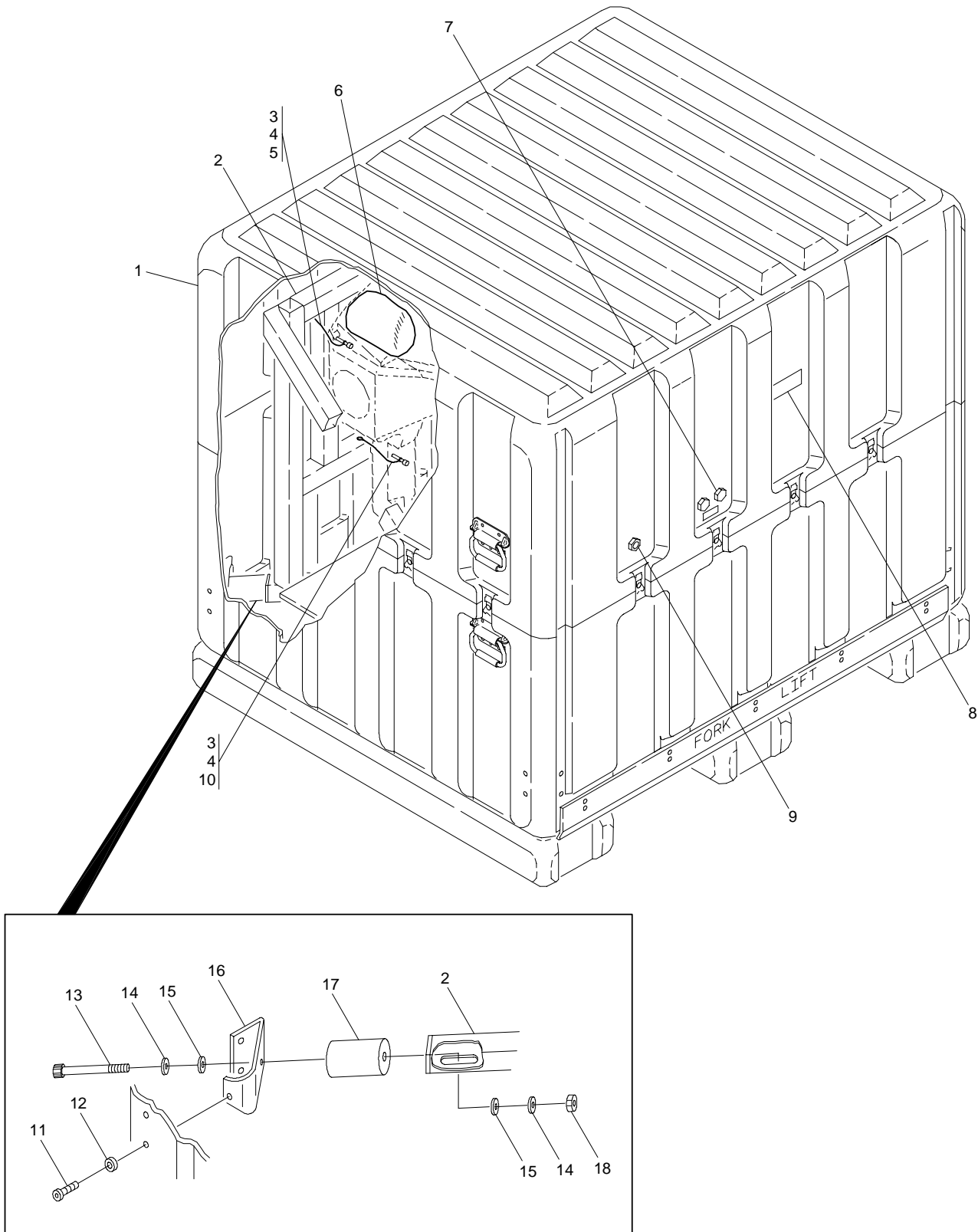


Figure 8. Type IV Shipping/Storage Container (13231276) (Group 16)

(1) ITEM NO.	(2) SMR CODE	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP: 16 TYPE IV CONTAINER FIG. 8 TYPE IV SHIPPING/STORAGE CONTAINER 13231276 (04939) UOC: P40	
1	XDFZZ	04939	13231090	.CONTAINER, SHIPPING AND STORAGE	1
2	XDFZZ	04939	13231092	.FIXTURE SUBASSEMBLY	1
3	PAFZZ	04939	13231971	.BOLT ASSEMBLY, UPPER	2
3	PAFZZ	04939	13231301	.BOLT ASSEMBLY, UPPER (ALT)	2
4	PAFZZ	80205	NAS1398D4-4	.RIVET, BLIND	4
4	PAFZZ	81349	M24243/3A404	.RIVET, BLIND (ALT)	4
5	PAFZZ	80205	NAS1149FN632P	.WASHER, FLAT	4
6	PAFZZ	81349	MIL-D-3464 TY216 UNITS	.DESICCANT, ACTIVATED, BAGGED	5
7	PAFZZ	81349	TA330-13414	.VALVE, BREATHER	2
8	XDFZZ	13007	66A7-2A	.PLATE, IDENTIFICATION	1
9	PAFZZ	8992	TA350-234P	.INDICATOR, HUMIDITY.....	1
10	PAFZZ	04939	13231970	.BOLT ASSEMBLY, LOWER	2
10	PAFZZ	04939	13231302	.BOLT ASSEMBLY, LOWER (ALT).....	2
11	PAFZZ	85969	92949A542	.SCREW, SOCKET HEAD	16
11	PAFZZ	0MKW8	30BSC25C100	.SCREW, BUTTON HEAD (ALT)	16
12	PAFZZ	93907	DAS-45F25-000	.WASHER, SEALING	16
12	PAFZZ	85969	S15	.WASHER, SEALING (ALT)	16
13	PAFZZ	96906	MS35308-407	.SCREW, SOCKET HEAD	4
14	PAFZZ	96906	MS35338-144	.WASHER, LOCK.....	8
15	PAFZZ	80205	NAS1149C0863R	.WASHER, FLAT	8
16	PAFZZ	04939	13231093	.BRACKET, MOUNTING	4
17	PAFZZ	71985	C538-277	.SHOCK MOUNT ASSEMBLY	4
18	PAFZZ	88044	AN315-8R	.NUT, PLAIN, HEXAGON	4
				END OF FIGURE	

**SPECIAL TOOLS LIST
(Not Applicable)**

**CROSS-REFERENCE INDEXES
NATIONAL STOCK NUMBER
PART NUMBER INDEX**

**CROSS-REFERENCE INDEXES
NATIONAL STOCK NUMBER INDEX**

<u>STOCK NUMBER</u>	<u>FIG</u>	<u>ITEM</u>	<u>STOCK NUMBER</u>	<u>FIG</u>	<u>ITEM</u>
5320-00-057-7208	8	4	8145-01-183-8307	1	1
5305-00-071-2095	5	5	8145-01-183-8308	1	1
	6	6	8145-01-183-8309	1	3
5310-00-141-1795	6	8	8145-01-184-4038	1	1
5306-00-151-1423	5	7	5340-01-204-2552	5	4
5306-00-151-1426	6	7		6	5
5310-00-167-0806	8	15	1270-01-205-6841	7	6
5310-00-167-0816	7	5	1270-01-212-6601	5	20
5325-00-210-3920	5	19		6	16
	6	14	3040-01-223-8925	7	3
5365-00-263-5915	7	11	4820-01-233-7052	2	2
5305-00-269-2501	8	13		3	7
5310-00-298-9267	8	18	4820-01-233-7052	4	6
5310-00-536-6865	5	3	5310-01-235-8116	7	7
5365-00-580-5790	5	22	8135-01-280-6637	4	9
	6	15	8135-01-281-8066	4	1
5305-00-285-3219	5	10	8135-01-281-8067	2	9
5310-00-622-9531	7	8	8135-01-282-4581	2	9
5325-00-800-7874	5	14	8135-01-283-2815	2	9
	6	4	8135-01-283-2816	2	10
5320-00-808-0813	7	9	8135-01-283-6738	4	9
5325-00-815-4929	5	15	8135-01-283-7917	2	9
5325-00-815-4930	5	12	8135-01-285-1205	2	10
6850-00-935-9795	2	6	8135-01-285-1206	2	9
	3	2	8135-01-285-1207	2	9
5305-00-995-2639	5	8		4	9
5305-01-043-5690	5	21	8135-01-285-1208	2	10
1270-01-170-8968	6	16	8135-01-285-3817	3	1
1270-01-170-8969	7	4	8135-01-285-5251	4	9
1270-01-171-2645	7	5	8135-01-285-5252	4	9
1270-01-171-4452	7	12	8135-01-287-3314	4	1
3040-01-171-6718	7	3	8135-01-287-8069	2	10
5310-01-172-2136	7	13	8135-01-288-1723	4	1
5365-01-174-1569	7	10	8135-01-290-7238	4	9
8145-01-175-2475	1	3	8135-01-291-9987	2	10
5315-01-183-0757	5	18	8135-01-292-5569	2	9
	6	13	5365-01-296-9817	5	9
8145-01-183-8295	1	3	8135-01-301-2330	2	10
8145-01-183-8296	1	3	8135-01-301-2331	4	1
8145-01-183-8297	1	1	8315-01-304-6113	2	9
8145-01-183-8298	1	3	5306-01-308-5001	6	17
8145-01-183-8299	1	3	8135-01-312-0338	4	1
8145-01-183-8300	1	3	8135-01-312-0339	4	1
8145-01-183-8301	1	1	8135-01-312-2658	3	3
8145-01-183-8302	1	2	8145-01-315-1729	1	1
8145-01-183-8303	1	1	5310-01-399-6967	8	5
8145-01-183-8304	1	1			
8145-01-183-8305	1	1			
8145-01-183-8306	1	1			

**CROSS-REFERENCE INDEXES
PART NUMBER INDEX**

<u>CAGEC</u>	<u>PART NUMBER</u>	<u>STOCK NUMBER</u>	<u>FIG.</u>	<u>ITEM</u>
88044	AN315-8R	5310-00-298-9267	8	18
88044	AN4-6A	5306-00-151-1426	6	7
88044	AN4-11A	5306-00-151-1423	5	7
88044	AN565D6H6	5305-00-285-3219	5	10
71985	C538-277		8	17
93907	DAS-45F25-000		8	12
81349	MIL-D-3464 TY216 UNITS		8	6
81349	MILD3464TY2UT4BG	6850-00-935-9795	2	6
			3	2
			4	3
96906	MS16624-4031	5365-00-263-5915	7	11
96906	MS20615-4M9	5320-00-808-0813	7	9
96906	MS21209C0615	5325-00-815-4930	5	12
96906	MS21209C0815	5325-00-815-4929	5	15
96906	MS21209F1-15	5325-00-800-7874	5	14
			6	4
96906	MS21209F4-10	5325-00-210-3920	5	19
			6	14
96906	MS35308-407	5305-00-269-2501	8	13
96906	MS35338-144		8	14
96906	MS51958-83	5305-00-071-2095	5	5
			6	6
81349	M24243/3A404	5320-00-057-7208	8	4
80205	NAS1149C0863R	5310-00-167-0806	8	15
80205	NAS1149FN632P	5310-01-399-6967	8	5
80205	NAS1149F0463P	5310-00-141-1795	5	6
			6	8
80205	NAS1218-08-8	5305-01-043-5690	5	21
80205	NAS1351-3-8P	5305-00-995-2639	5	8
80205	NAS1351-6-10P	5305-01-229-7706	6	10
80205	NAS1398D4-4	5320-00-057-7208	8	4
80205	NAS43DD4-12	5365-00-580-5790	5	22
			6	15
80205	NAS43DD4-12N	5365-01-296-9817	5	9
80205	NAS620-6	5310-00-622-9531	7	8
85969	S15	5310-01-303-8765	8	12
54278	TA238-837-6		4	6
08992	TA330-13414		8	7

PART NUMBER INDEX

<u>CAGEC</u>	<u>PART NUMBER</u>	<u>STOCK NUMBER</u>	<u>FIG.</u>	<u>ITEM</u>
08992	TA350-234P		8	9
76385	ZB-1187M.I.	5340-01-204-2552	5	4
			6	5
19178	ZSP11-1108		2	3
			3	5
			4	5
19178	ZSP6-037-6	4820-01-233-7052	2	2
			3	7
			4	6
19178	ZSP6-608		2	5
			3	6
			4	7
81348	ZZR765BCL3BGR60TBG0.250DX0.062WT		2	4
			3	8
			4	8
			5	2
			6	2
04939	13074657	1270-01-170-8968	6	16
04939	13074658		7	2
04939	13074661		7	1
04939	13074662	1270-01-170-8969	7	4
04939	13074667	3040-01-171-6718	7	3
04939	13074675	1270-01-171-2645	7	5
04939	13074735	5310-01-172-2136	7	13
04939	13074739	1270-01-171-4452	7	12
04939	13075310	5365-01-174-1569	7	10
04939	13075677	1270-01-212-6601	5	20
			6	16
04939	13075758	1270-01-205-6841	7	6
04939	13076419	3040-01-223-8925	7	3
04939	13076695	5310-01-235-8116	7	7
04939	13080489		6	9
04939	13082289		5	16
			6	11
04939	13082289-2		5	17
			6	12
04939	13082290		5	1
			6	1

PART NUMBER INDEX

<u>CAGEC</u>	<u>PART NUMBER</u>	<u>STOCK NUMBER</u>	<u>FIG.</u>	<u>ITEM</u>
04939	13082290-2		5	1
			6	1
04939	13082384		4	11
04939	13082384-11		2	8
04939	13082384-12		2	8
04939	13082384-13		3	10
04939	13082384-14		2	8
04939	13082384-15		2	8
04939	13082384-16		2	8
04939	13082384-17		2	8
04939	13082384-18		2	8
04939	13082384-2		4	11
04939	13082384-21		2	8
04939	13082384-22		4	11
04939	13082384-3		4	11
04939	13082384-4		4	11
04939	13082384-5		4	11
04939	13082384-6		4	11
04939	13082384-7		2	8
04939	13082384-8		2	8
04939	13082385	8145-01-175-2475	1	3
04939	13082387	8145-01-183-8298	1	3
04939	13082388	8135-01-283-6738	4	9
04939	13082389	8135-01-288-1723	4	1
04939	13082420		4	2
04939	13083404	5315-01-183-0757	5	18
			6	13
04939	13083560	8135-01-285-1207	4	9
04939	13083561	8135-01-287-3314	4	1
04939	13083564	8135-01-290-7238	4	9
04939	13083565	8135-01-301-2331	4	1
04939	13083566	8135-01-285-5252	4	9
04939	13083567	8135-01-285-5251	4	9
04939	13083568	8135-01-281-8066	4	1
04939	13083569-2		2	9
04939	13083570-2	8135-01-285-1205	2	10
04939	13083571		2	10

PART NUMBER INDEX

<u>CAGEC</u>	<u>PART NUMBER</u>	<u>STOCK NUMBER</u>	<u>FIG.</u>	<u>ITEM</u>
04939	13083572	8135-01-285-1206	2	9
04939	13083573	8135-01-283-2816	2	10
04939	13083574	8135-01-282-4581	2	9
04939	13083575	8135-01-285-1208	2	10
04939	13083576	8135-01-283-2815	2	9
04939	13083577	8135-01-312-2658	3	3
04939	13083578	8135-01-285-3817	3	1
04939	13083579	8135-01-287-8069	2	10
04939	13083580	8315-01-304-6113	2	9
04939	13083581	8135-01-301-2330	2	10
04939	13083582	8135-01-292-5569	2	9
04939	13083583		2	10
04939	13083584		2	9
04939	13083585		2	10
04939	13083586	8135-01-285-1207	2	9
04939	13083587		2	10
04939	13083588	8135-01-281-8067	2	9
04939	13083591	8135-01-291-9987	2	10
04939	13083592	8135-01-283-7917	2	9
04939	13083593	8135-01-280-6637	4	9
04939	13083594	8135-01-312-0339	4	1
04939	13083608	8145-01-183-8296	1	3
04939	13083610	8145-01-183-8299	1	3
04939	13083611	8145-01-183-8300	1	3
04939	13083612	8145-01-183-8295	1	3
04939	13083613-19	8145-01-315-1729	1	1
04939	13083614	8145-01-184-4038	1	1
04939	13083615	8145-01-183-8301	1	1
04939	13083616	8145-01-183-8297	1	1
04939	13083617	8145-01-183-8302	1	2
04939	13083618	8145-01-183-8303	1	1
04939	13083619	8145-01-183-8304	1	1
04939	13083620	8145-01-183-8305	1	1
04939	13083621	8145-01-183-8306	1	1
04939	13083622	8145-01-183-8307	1	1
04939	13083624	8145-01-183-8308	1	1

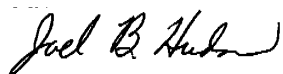
PART NUMBER INDEX

<u>CAGEC</u>	<u>PART NUMBER</u>	<u>STOCK NUMBER</u>	<u>FIG.</u>	<u>ITEM</u>
04939	13083625	8145-01-183-8309	1	3
04939	13083632	8135-01-312-0338	4	1
04939	13083643		2	1
04939	13083644		3	4
04939	13083645		4	4
04939	13231090		8	1
04939	13231092		8	2
04939	13231093		8	16
04939	13231276	8145-01-364-1629	1	4
04939	13231301		8	3
04939	13231302		8	10
04939	13231543		2	7
			3	9
			4	10
04939	13231822	5306-01-308-5001	6	17
04939	13231937		5	11
04939	13231937-1		5	13
04939	13231940-9		4	2
04939	13231970		8	10
04939	13231971		8	3
OMKW8	30BSC25C100		8	11
22599	52NTE-048	5310-00-536-6865	5	3
			6	4
13007	66A7-2A		8	8
85969	92949A542		8	11

By Order of the Secretary of the Army:

Official:

ERIC K. SHINSEKI
General, United States Army
Chief of Staff



JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
0119106

DISTRIBUTION:

To be distributed in accordance with initial distribution number (IDN) 322477 requirements for TM 1-8145-476-23P.

These are the instructions for sending an electronic 2028

The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however, only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whomever" whomever@avma27.army.mil
To: 2028@redstone.army.mil
Subject DA Form 2028

1. **From:** Joe Smith
2. **Unit:** home
3. **Address:** 4300 Park
4. **City:** Hometown
5. **St:** MO
6. **Zip:** 77777
7. **Date Sent:** 19-OCT-93
8. **Pub no:** 55-2840-229-23
9. **Pub Title:** TM
10. **Publication Date:** 04-JUL-85
11. **Change Number:** 7
12. **Submitter Rank:** MSG
13. **Submitter FName:** Joe
14. **Submitter MName:** T
15. **Submitter LName:** Smith
16. **Submitter Phone:** 123-123-1234
17. **Problem:** 1
18. **Page:** 2
19. **Paragraph:** 3
20. **Line:** 4
21. **NSN:** 5
22. **Reference:** 6
23. **Figure:** 7
24. **Table:** 8
25. **Item:** 9
26. **Total:** 123
27. **Text:**

This is the text for the problem below line 27.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

SOMETHING WRONG

WITH THIS PUBLICATION?



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

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

MMC, Br. , 432 PSD
ATTN: SP5 B. VAN ALSTINE
ORLANDO, FL. 32809

DATE SENT

31 DEC 91

PUBLICATION NUMBER
TM 1-1270-476-20

PUBLICATION DATE
31 AUGUST 91

PUBLICATION TITLE
AVIATION UNIT MAINTENANCE MANUAL
TARGET ACQUISITION DESIGNATION SIGHT
(TADS) ASSEMBLY AN/ASQ-170

BE EXACT . . . PIN-POINT WHERE IT IS

PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
2-14			Com

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

Detailed Step No. 14 indicates (Accumetric A-105 primer) Should be changed to (Stauffer SWS-1001 Insulating primer)

SAMPLE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER
SP5 B. L. VAN ALSTINE 305-503-3050

SIGN HERE

REVERSE OF DA FORM 2028-2

FILL IN YOUR
UNIT'S ADDRESS



FOLD BACK



DEPARTMENT OF THE ARMY

COMMANDER
U.S. Army Aviation and Missile Command
ATTN: AMSAM-MMC-MA-NP
Redstone Arsenal, AL 35898-5230

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

SOMETHING WRONG

WITH THIS PUBLICATION?



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

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER
TM 1-8145-476-23P

PUBLICATION DATE

PUBLICATION TITLE
SHIPPING AND STORAGE CONTAINERS
REPAIR PARTS AND SPECIAL TOOLS LIST

BE EXACT ... PIN-POINT WHERE IT IS

PAGE
NO.

PARA-
GRAPH

FIGURE
NO.

TABLE
NO.

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

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SIGN HERE

DA FORM 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE

PS-IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

REVERSE OF DA FORM 2028-2

FILL IN YOUR
UNIT'S ADDRESS



FOLD BACK

DEPARTMENT OF THE ARMY

**COMMANDER
U.S. Army Aviation and Missile Command
ATTN: AMSAM-MMC-MA-NP
Redstone Arsenal, AL 35898-5230**

THE METRIC SYSTEM AND EQUIVALENTS

WEIGHT MEASURE

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

WEIGHTS

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

LIQUID MEASURE

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

SQUARE MEASURE

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

CUBIC MEASURE

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

TEMPERATURE

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

APPROXIMATE CONVERSION FACTORS

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

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



PIN: 045032-000