

**TM 9-4931-583-30&P**

---

**TECHNICAL MANUAL**

**AVIATION INTERMEDIATE  
MAINTENANCE INSTRUCTIONS  
INCLUDING REPAIR PARTS AND  
SPECIAL TOOLS LIST  
FOR**

**BORESIGHT KIT  
T-102300-101  
(4931-01-084-3750)**

---

**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**30 JUNE 1983**



**CHANGE**

No. 1

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, DC, 7 January 1986

Aviation Intermediate Maintenance Instructions  
Including Repair Parts and Special Tools List  
for  
Boresight Assembly, Ground Support Equipment  
T-102300-107

TM 9-4931-583-30&P, 30 June 1983, is changed as follows:

1. Remove old pages and insert new pages as indicated below.
2. New or changed material is indicated by a vertical bar in the margin of the page.
3. Revised illustrations are indicated by a miniature pointing hand indicating the general area of the change.
4. Changed items in the Repair Parts and Special Tools List (Appendix C) are indicated by the following action change codes in the left-hand margin:

N - Added Item

C - Change in data

R - Change in NSN only

Remove Pages

Insert Pages

i and ii

i and ii

1-1 thru 1-4

1-1 thru 1-4

C-1 and C-2

C-1 and C-2

C-5 thru C-8

C-5 thru C-8

5. This change reflects nomenclature and part number changes.
6. File this change sheet in back of the publication for reference purposes.

By Order of the Secretary of the Army:

**JOHN A. WICKHAM, JR.**  
*General, United States Army*  
*Chief of Staff*

Official:

**MILDRED E. HEDBERG**  
*Brigadier General, United States Army*  
*The Adjutant General*

**DISTRIBUTION:**

To be distributed in accordance with DA Form 12-31A, Direct and General Support maintenance requirements for Armament Subsystem: Gun Automatic, 20-MM, M97E1.

TECHNICAL MANUAL }  
 No. 9-4931-583-30&P }

HEADQUARTERS  
 DEPARTMENT OF THE ARMY  
 WASHINGTON, D.C. ,30 June 1983

**BORESIGHT KIT  
 T-102300-107  
 (4931-01-084-3750)**

Current as of 30 June 1983

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

|              |   | Page |
|--------------|---|------|
| CHAPTER 1.   | INTRODUCTION  |      |
| Section I.   | General .....   | 1-1  |
| 1-1.         | Scope .....   | 1-1  |
| 1-2.         | Maintenance forms and records .....   | 1-1  |
| 1-3.         | Destruction of army materiel to prevent enemy use .....   | 1-1  |
| 1-4.         | Quality assurance/quality control .....   | 1-1  |
| 1-5.         | Reporting equipment improvement recommendations (EIR) .....   | 1-1  |
| Section II.  | Description and tabulated data .....  | 1-1  |
| 1-6.         | Description .....   | 1-1  |
| 1-7.         | Tabulated data .....  | 1-1  |
| 1-8.         | Repair parts, special tools, special test maintenance and diagnostic equipment (TMDE) and support equipment ..... | 1-5  |
| CHAPTER 2.   | AVIATION INTERMEDIATE MAINTENANCE INSTRUCTIONS . . . .  | 2-1  |
| Section I.   | Service upon receipt of materiel .....  | 2-1  |
| 2-1.         | Inspection .....  | 2-1  |
| 2-2.         | Servicing .....   | 2-1  |
| 2-3.         | Assembly .....  | 2-1  |
| 2-4.         | Alignment .....   | 2-3  |
| 2-5.         | Disassembly .....   | 2-9  |
| Section II.  | Lubrication .....   | 2-9  |
| 2-6.         | General .....   | 2-9  |
| 2-7.         | Lubrication .....   | 2-9  |
| Section III. | Pre-embarkation inspection of materiel in units alerted for . . . . .<br>overseas movement .....                  | 2-9  |
| Section IV.  | Troubleshooting .....   | 2-10 |
| 2-8.         | Troubleshooting .....   | 2-10 |
| Section V.   | General maintenance .....   | 2-11 |
| 2-9.         | Boresight assembly .....  | 2-11 |
| 2-10.        | Stand assembly .....  | 2-11 |
| 2-11.        | Preventive maintenance checks and services. ....  | 2-11 |

|             |   | Page        |                         |
|-------------|---|-------------|-------------------------|
| CHAPTER 3.  | REPAIR OF BORESIGHT ASSEMBLY,<br>GROUND SUPPORT EQUIPMENT       |             |                         |
| Section I.  | Foresight assembly repair . . . . .                             | 3-1         |                         |
| 3-1.        | General . . . . .   | 3-1         |                         |
| 3-2.        | Repair of foresight assembly. . . . .                           | 3-1         |                         |
| 3-3.        | Repair of stand assembly, part number 209-071-451-101 . . . . . | 3-7         |                         |
| 3-4.        | Repair of foresight assembly miscellaneous components . . . . . | 3-8         |                         |
| CHAPTER 4.  | MAINTENANCE OF AUXILIARY EQUIPMENT . . . . .                    | 4-1         |                         |
| 5.          | FINAL INSPECTION . . . . .                                      | 5-1         |                         |
| APPENDIX A. | REFERENCES . . . . .  | A-1         |                         |
| B.          | MAINTENANCE ALLOCATION CHART . . . . .                          | B-1         |                         |
|             |   | <b>Page</b> | <b>Illus<br/>Figure</b> |
| APPENDIX C. | REPAIR PARTS AND SPECIAL TOOLS LIST. . . . .                    | C-1         |                         |
| Section I.  | Introduction . . . . .  | C-1         |                         |
| II.         | Repair parts list . . . . .                                     | C-5         |                         |
| Group 9307  | Kit, Boresight . . . . .  | C-7         | C-1                     |
| 9307A       | Boresight Assembly . . . . .                                    | C-10        | C-2                     |
| 9307A01     | Frame Assembly, Main . . . . .                                  | C-14        | C-3                     |
| 9307A0101   | Frame Assembly, Block . . . . .                                 | C-14        | C-3                     |
| 9307A0102   | Block Assembly . . . . .  | C-14        | C-3                     |
| 9307A0103   | Block Assembly, Right Hand . . . . .                            | C-14        | C-3                     |
| 9307A0104   | Block Assembly . . . . .  | C-14        | C-3                     |
| 9307A0105   | Block Assembly, Left Hand . . . . .                             | C-14        | C-3                     |
| 9307A0106   | Block Assembly, Telescope Sight Unit . . . . .                  | C-15        | C-3                     |
| 9307A0107   | Block Assembly Alignment. . . . .                               | C-15        | C-3                     |
| 9307A02     | Frame Assembly, Right Hand . . . . .                            | C-17        | C-4                     |
| 9307A0201   | Alignment Assembly . . . . .                                    | C-17        | C-4                     |
| 9307A020101 | Block Assembly, Right Hand . . . . .                            | C-17        | C-4                     |
| 9307A020102 | Alignment Assembly . . . . .                                    | C-17        | C-4                     |
| 9307A020103 | Frame Assembly, Right Hand . . . . .                            | C-17        | C-4                     |
| 9307A03     | Frame Assembly, Left Hand . . . . .                             | C-19        | C-5                     |
| 9307A0301   | Alignment Assembly, Left Hand . . . . .                         | C-19        | C-5                     |
| 9307A030101 | Block Assembly, Left Hand . . . . .                             | C-19        | C-5                     |
| 9307A030102 | Alignment Assembly . . . . .                                    | C-19        | C-5                     |
| 9307A030103 | Frame Assembly Left Hand . . . . .                              | C-19        | C-5                     |
| 9307A04     | Frame Assembly, Forward . . . . .                               | C-21        | C-6                     |
| 9307A0401   | Alignment Assembly, Forward Gun . . . . .                       | C-21        | C-6                     |
| 9307A040101 | Block Assembly . . . . .  | C-21        | C-6                     |
| 9307A040102 | Alignment Assembly . . . . .                                    | C-21        | C-6                     |
| 9307A040103 | Frame Assembly, Forward Gun . . . . .                           | C-21        | C-6                     |
| 9307A05     | Frame Assembly, Upper . . . . .                                 | C-23        | C-7                     |
| 9307A0501   | Block Assembly. . . . .   | C-23        | C-7                     |
| 9307A0502   | Plate Assembly, Upper . . . . .                                 | C-23        | C-7                     |
| 9307A0503   | Frame Assembly, Upper . . . . .                                 | C-23        | C-7                     |

|                   |   | Page | Illus<br>Figure |
|-------------------|---|------|-----------------|
| Group 9307A06     | Alignment Assembly, Gun . . . . .                     | C-25 | C-8             |
| Group 9307A0601   | Shank Assembly . . . . .                              | C-25 | C-8             |
| Group 9307A0602   | Housing Assembly . . . . .                            | C-25 | C-8             |
| Group 9307A07     | Frame Assembly, Mounting Alignment . . . . .          | C-25 | C-8             |
| Group 9307A0701   | Slider Assembly . . . . .                             | C-25 | C-8             |
| Group 9307A0702   | Slider Assembly . . . . .                             | C-25 | C-8             |
| Group 9307A0703   | Slider Assembly . . . . .                             | C-26 | C-8             |
| Group 9307A0704   | Frame Assembly . . . . .                              | C-26 | C-8             |
| Group 9307A0705   | Frame Fixed . . . . .                                 | C-26 | C-8             |
| Group 9307A08     | Handle Assembly . . . . .                             | C-26 | C-8             |
| Group 9307A09     | Alignment Device . . . . .                            | C-30 | C-9             |
| Group 9307A0901   | Base Assembly . . . . .                               | C-30 | C-9             |
| Group 9307A10     | Alignment Device . . . . .                            | C-30 | C-9             |
| Group 9307A11     | Alignment Assembly, Tow Missile . . . . .             | C-30 | C-9             |
| Group 9307A1101   | Body Assembly . . . . .                               | C-30 | C-9             |
| Group 9307A12     | Alignment Device Assembly . . . . .                   | C-30 | C-9             |
| Group 9307A13     | Cable Assembly . . . . .                              | C-31 | C-9             |
| Group 9307A14     | Cable Assembly, Unit Illumination . . . . .           | C-31 | C-9             |
| Group 9307A15     | Alignment Device Assembly . . . . .                   | C-35 | C-10            |
| Group 9307A1501   | Block Alignment Device . . . . .                      | C-35 | C-10            |
| Group 9307A16     | Mirror Assembly . . . . .                             | C-35 | C-10            |
| Group 9307A17     | Alignment Device . . . . .                            | C-35 | C-10            |
| Group 9307A18     | Shelf Assembly, Pilot . . . . .                       | C-35 | C-10            |
| Group 9307A1801   | Clevis Assembly . . . . .                             | C-35 | C-10            |
| Group 9307A19     | Pedestal Assembly Alignment . . . . .                 | C-36 | C-10            |
| Group 9307A1901   | Magnet Assembly . . . . .                             | C-36 | C-10            |
| Group 9307A1902   | Pedestal Assembly . . . . .                           | C-36 | C-10            |
| Group 9307A20     | Shelf Assembly, Gunner . . . . .                      | C-36 | C-10            |
| Group 9307A2001   | Clevis Assembly . . . . .                             | C-36 | C-10            |
| Group 9307A2002   | Clevis Assembly . . . . .                             | C-37 | C-10            |
| Group 9307A200201 | Clevis Assembly . . . . .                             | C-37 | C-10            |
| Group 9307A2003   | Clevis Base Assembly . . . . .                        | C-37 | C-10            |
| Group 9307A200301 | Clevis Base Assembly . . . . .                        | C-37 | C-10            |
| Group 9307A21     | Stand Assembly . . . . .                              | C-39 | C-11            |
| Group 9307A2101   | Brace Assembly . . . . .                              | C-39 | C-11            |
| Group 9307A210101 | Brace Assembly . . . . .                              | C-39 | C-11            |
| Group 9307A2102   | Base Assembly . . . . .                               | C-39 | C-11            |
| Group 9307A2103   | Support Vertical . . . . .                            | C-39 | C-11            |
| Group 9307B       | Case Assembly, Transportation . . . . .               | C-42 | C-12            |
| Group 9307C       | Case Assembly, Transportation . . . . .               | C-42 | C-12            |
| Group 9307D       | Case Assembly, Transportation . . . . .               | C-42 | C-12            |
| Group 9307E       | Case Assembly, Transportation . . . . .               | C-42 | C-12            |
| Group 9307F       | Case Assembly, Transportation . . . . .               | C-42 | C-12            |
| Group 9307G       | Case Assembly, Transportation . . . . .               | C-42 | C-12            |
| Group 9307H       | Case Assembly, Transportation . . . . .               | C-42 | C-12            |
| Section III.      | Special tools list . . . . .                          | C-43 |                 |
| Section IV.       | National stock number and part number index . . . . . | C-44 |                 |
| APPENDIX D.       | EXPENDABLE SUPPLIES AND MATERIALS LIST . . . . .      | D-1  |                 |
| APPENDIX E.       | BASIC ISSUE ITEMS (BH) . . . . .                      | E-1  |                 |





## CHAPTER 1

### INTRODUCTION

#### SECTION I. GENERAL

**1-1. Scope.** This manual is for your use in operating and maintaining the Boresight Assembly Ground Support Equipment, T-102300-107.

**1-2. Maintenance Forms and Records.** Maintenance forms and records are listed in DA PAM 738-750.

**1-3. Destruction of Army Materiel to Prevent Enemy Use.** Refer to TM 750-244-1-5 for instructions pertaining to destruction of Army materiel to prevent enemy use.

**1-4. Quality Assurance/Quality Control.** This information not available at this time.

**1-5. Reporting Equipment Improvement Recommendations (EIR).** EIR can and must be submitted by anyone who is aware of an unsatisfactory condition with the equipment design or use. It is not necessary to show a new design or list a better way to perform a procedure, just simply tell why the design is unfavorable or why a procedure, is difficult. EIR's will be prepared on SF 368, Quality Deficiency Report. Instructions for preparing EIR's are provided in DA PAM 738-750, The Army Maintenance Management System. EIR's should be mailed directly to Commander, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-QAD, Rock Island, Illinois, 61299-6000. A reply will be furnished directly to you.

#### SECTION II. DESCRIPTION AND TABULATED DATA

##### 1-6. Description.

*a.* The boresight kit consists of the disassembled Boresight Assembly Ground Support Equipment (BAGSE) packed in seven carrying cases.

*b.* The BAGSE is a compact portable unit used to provide the proper angles for boresighting the armament subsystems of the helicopter.

*c.* The BAGSE (figure 1-1) consists of a boresight assembly, stand assembly and separate align blocks. The boresight assembly is a series of tubes and blocks which, when assembled, positions alignment block holes for boresighting each armament subsystem. The stand assembly is a four wheeled support rack for the boresight assembly. Separate alignment device assemblies are installed in each armament subsystem.

*d.* All components required to boresight the helicopter, including boresight telescopes and gunner quadrants, except electrical power source, are included in the assembly cases.

*e.* The BAGSE is packaged and transported in cases (figure 1-2).

##### 1-7. Tabulated Data.

###### *a. Physical.*

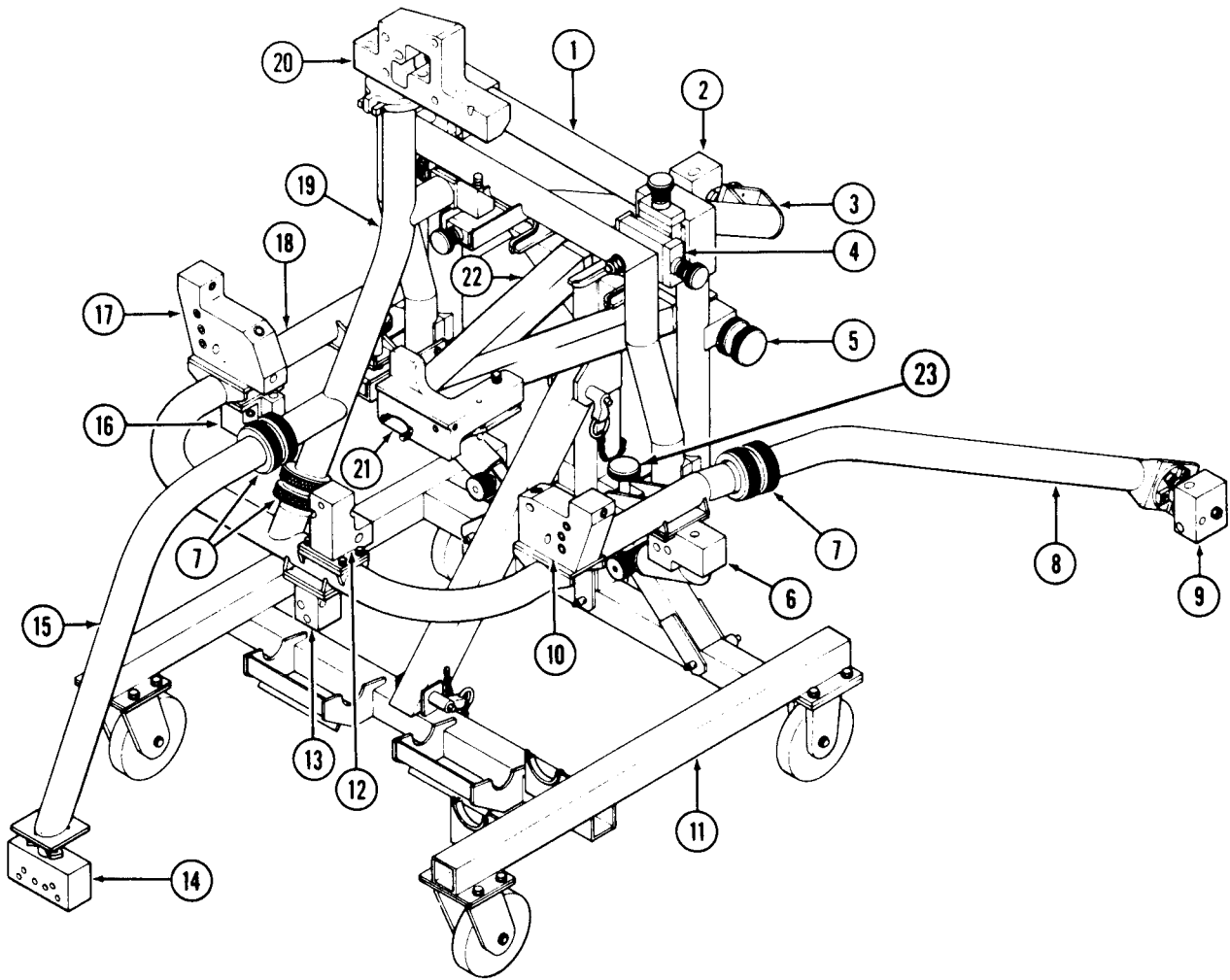
*(1) Boresight Assembly (Assembled). (Figure 1-1.)*

- (a) Length - 84.75 inches.*
- (b) Width - 48.75 inches.*
- (c) Height - 54 inches.*

*(2) Cases, Boresight Assembly (Disassembled and Packed). (Figure 1-2.)*

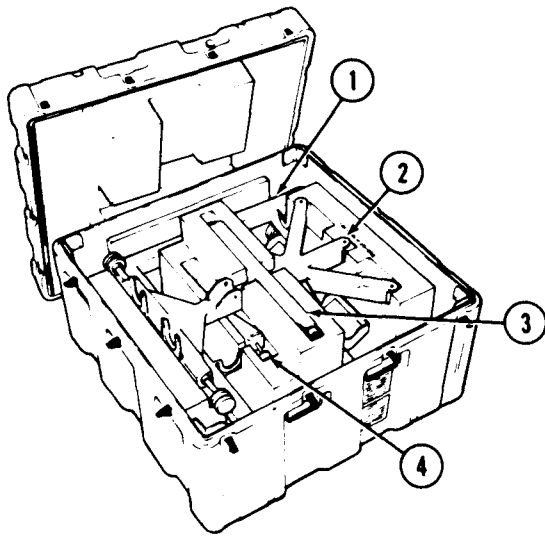
| CASE NO. | CUBIC FEET | WEIGHT/ POUNDS |
|----------|------------|----------------|
| 1        | 22.1       | 143            |
| 2        | 22.1       | 147            |
| 3        | 22.2       | 150            |
| 4        | 17.9       | 105            |
| 5        | 5.2        | 53             |
| 6        | 5.2        | 59             |
| 7        | 12.2       | 106            |

*b. Power Requirements.* 28 vdc is used to operate three illumination assemblies lamps.

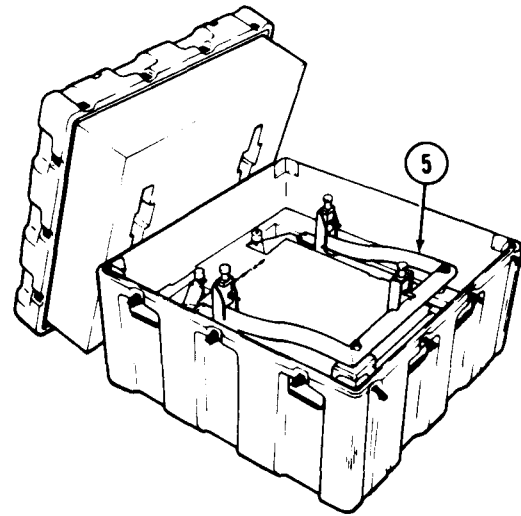


- |   |                                   |
|---|-----------------------------------|
| 1. Frame alignment mounting                   | 12. Forward TSU align block (FR)  |
| 2. Right hand gun block (RG)                  | 13. Forward TSU LOS block (TF)    |
| 3. Frame assembly right hand gun              | 14. Forward gun block (FG)        |
| 4. Slider assembly (5)                        | 15. Frame assembly forward gun    |
| 5. Handle assembly left (right side opposite) | 16. Right hand TSU LOS block (TR) |
| 6. Left hand TSU LOS block (TL)               | 17. Right hand wing block (RW)    |
| 7. Couplings (4)                              | 18. Main frame assembly           |
| 8. Frame assembly left hand gun               | 19. Frame assembly upper          |
| 9. Left hand gun block (LG)                   | 20. Upper block (UP)              |
| 10. Left hand wing block (LW)                 | 21. GSE boresight block (ZO)      |
| 11. Stand assembly                            | 22. Shelf assembly                |
|   | 23. Azimuth retaining knobs       |

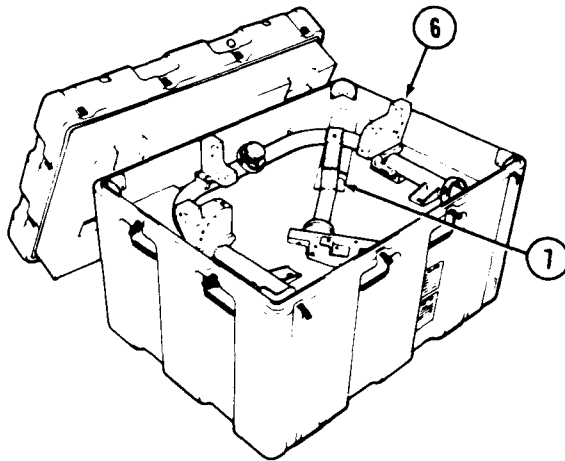
Figure 1-1. Boresight Assembly, Ground Support Equipment (BAGSE)



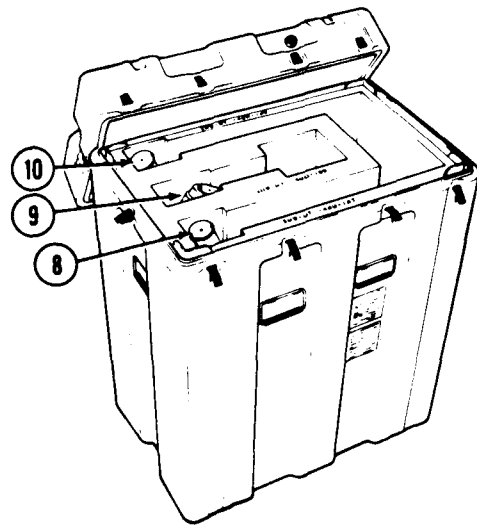
CASE 1



CASE 2

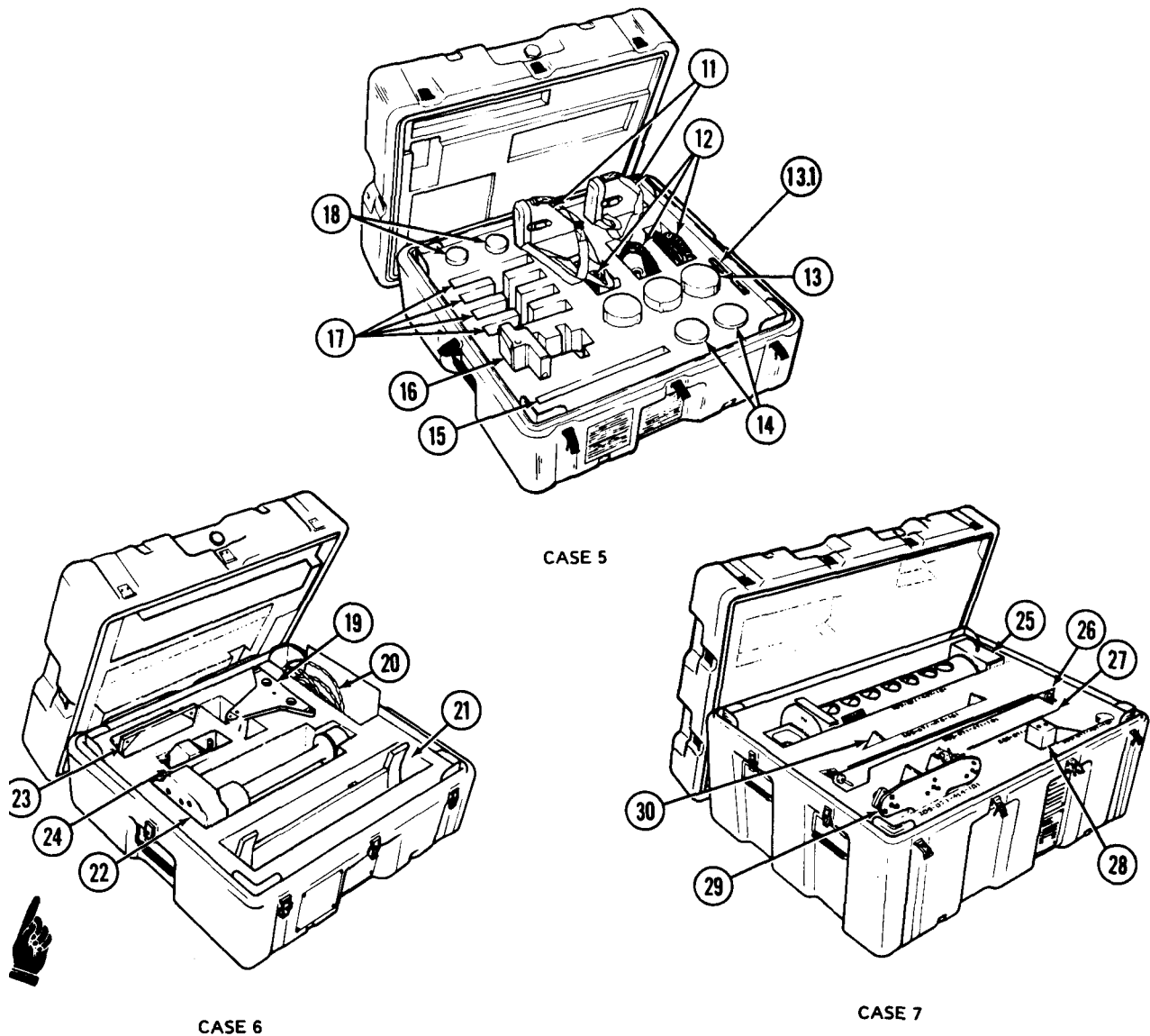


CASE 3



CASE 4

Figure 1-2. Boresight Assembly Cases (Sheet 1 of 2)



- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>1. Base assembly</li> <li>2. Vertical support</li> <li>3. Brace assembly</li> <li>4. Shelf</li> <li>5. Alignment mounting frame</li> <li>6. Main optical frame</li> <li>7. Upper optical frame</li> <li>8. Left gun frame</li> <li>9. Forward gun frame</li> <li>10. Right gun frame</li> <li>11. Quadrant fire control</li> <li>12. Illumination assemblies</li> <li>13. Mirror assemblies</li> <li>13.1 Boresight gage</li> <li>14. Handle assemblies</li> <li>15. Technical manual</li> </ul> | <ul style="list-style-type: none"> <li>16. TSU-GSE alignment block</li> <li>17. Boresight telescopes</li> <li>18. Knobs</li> <li>19. HUD alignment device</li> <li>20. Cable assembly</li> <li>21. Alignment fixture</li> <li>22. Rocket alignment device</li> <li>23. ALT alignment device</li> <li>24. ADS alignment device</li> <li>25. TOW missile alignment assembly</li> <li>26. Shelf assembly</li> <li>27. Post assembly</li> <li>28. Gun alignment device</li> <li>29. Pedestal assembly</li> <li>30. Shelf assembly</li> </ul> |
|---|--|

209071-452-2

Figure 1-2. Boresight Assembly Cases (Sheet 2 of 2)

**1-8. Repair Parts, Special Tools, Special Test Maintenance and Diagnostic Equipment (TMDE) and Support Equipment.**

*a.* Special tools and equipment are not required.

*b.* Spares and repair parts are listed and illustrated in Appendix C of this manual.

## CHAPTER 2

## AVIATION INTERMEDIATE MAINTENANCE INSTRUCTIONS

## SECTION I. SERVICE UPON RECEIPT OF MATERIEL

**2-1. Inspection.** Inspect boresight assembly ground support equipment using following steps:

- a. Cases for damage.
- b. Contents of cases for completeness (inventory).

**NOTE**

Parts replacement is required when damaged to the extent that alignment cannot be attained.

- c. Each item for cleanliness, corrosion, and damage.
- d. All nuts, bolts, and connections for security and tightness.

**2-2. Servicing.** No servicing is required.

**2-3. Assembly.**

**CAUTION**

Do not drop, bend, or force any components of the Boresight Assembly Ground Support Equipment (BAGSE). Any alignment beyond alignment assembly adjustment capabilities will require shipping the BAGSE component to higher repair level facility.

a. *Assemble Stand Assembly.* (Figure 2-1).

(1) Remove base (1, figure 1-2), vertical support assembly (2), brace assembly (3), and shelf (4) from case No. 1.

(2) Position vertical support assembly (2, figure 2-1) on base assembly (5) and fasten with three attached quick release pins (3).

(3) Position brace assembly (4) to base assembly (5) and vertical support assembly (2) and lock in place with two attached quick release pins (3).

(4) Set foot brake (7) on stand.

(5) Install shelf assembly (6) on vertical support assembly (2) upper crossmember and fasten with two knob assemblies (8).

b. *Assemble Boresight Assembly.*

(1) Remove alignment mounting frame assembly (5, figure 1-2) from case No. 2. Install on stand assembly (figure 2-1), placing two grooved blocks over the handle assemblies (1) on the stand.

(2) Screw retainers of handles over block flange until handtight.

(3) Be sure that the two lower fittings are resting against block on lower horizontal crossmember of vertical support assembly (2) and rotate the two clamps (14, figure C-8) behind the blocks and hand-tighten knobs (12).

**CAUTION**

Main frame assembly must be supported until upper optical frame assembly is installed.

(4) Remove main optical frame (6, figure 1-2) from case No. 3. Install on the two lower slider assembly studs (22, figure C-8) of the frame assembly and attach with two azimuth retaining knobs (18, figure 1-2) from case No. 5. One maintenance person shall support main frame assembly until upper optical frame assembly is installed.

**NOTE**

Mating surfaces of fittings must be clean to insure proper alignment.

(5) Remove upper optical frame (7) from case No. 3. Install frame attaching bearing on upper center slider assembly stud (22, figure C-8). Attach lower end of optical frame to main frame assembly, engaging dowel pins in holes and tightening couplings securely using strap or spanner wrenches.

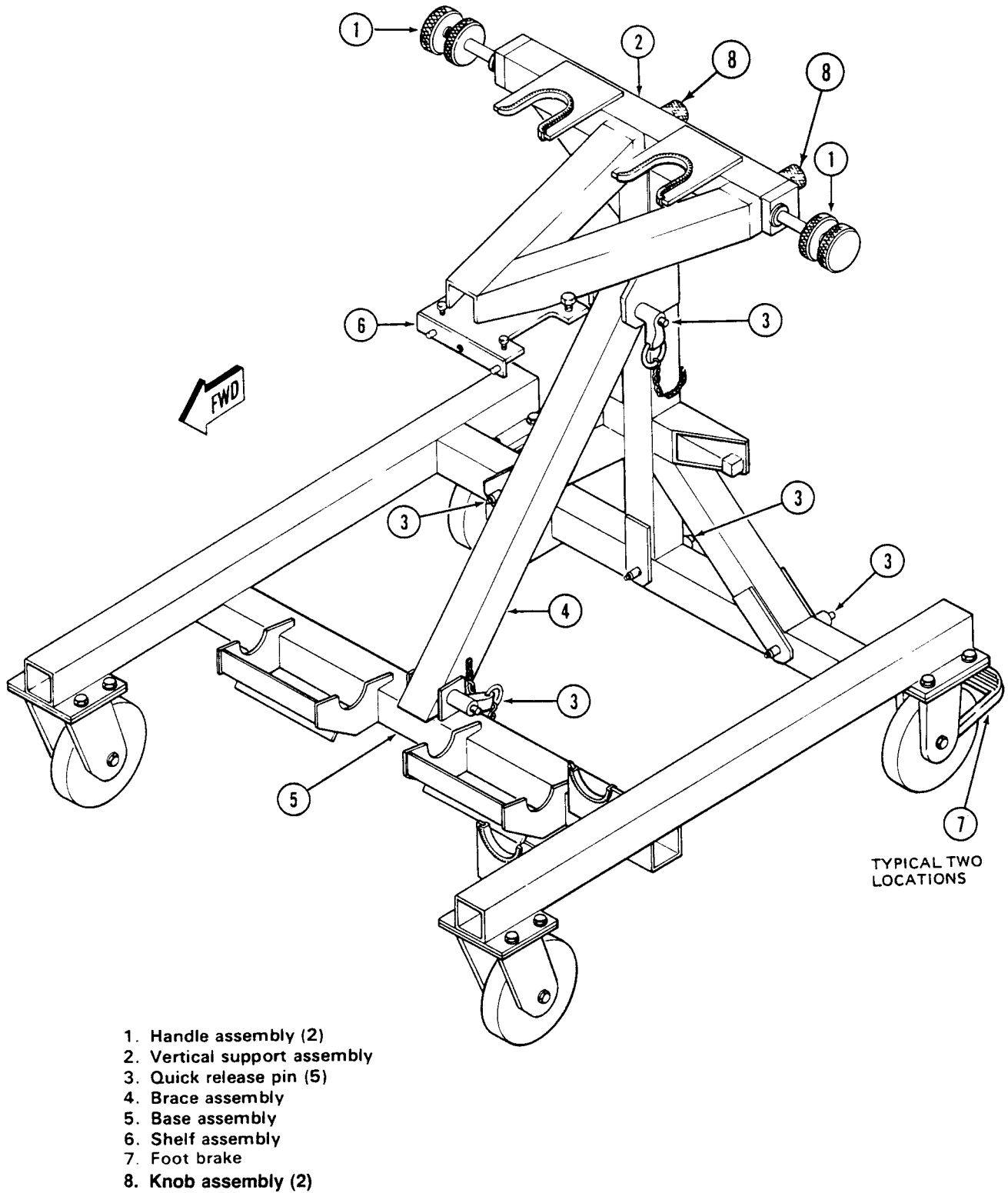


Figure 2-1. Stand Assembly

(6) Remove forward gun frame (9, figure 1-2) from case No. 4. Attach fitting end to forward fitting of upper frame assembly (19, figure 1-1), inserting dowel pin of fitting such that forward gun optical frame assembly curves downward. Tighten coupling securely using strap or spanner wrench.

(7) Remove right gun frame assembly (10, figure 1-2) from case No. 4. Attach fitting end to right side coupling end of main frame assembly, inserting dowel pin of fitting such that right gun optical frame curves downward. Tighten coupling securely using strap or spanner wrench.

(8) Remove left gun frame assembly (8) from case No. 4. Attach fitting end to left side coupling end of main frame assembly, inserting dowel pin of fitting such that left gun optical frame curves downward. Tighten coupling securely using strap or spanner wrench.

#### NOTE

The boresight assembly is now ready for alignment check.

#### 2-4. Alignment.



Do not disturb frame during alignment procedure. This will cause erroneous alignment.

#### NOTE

Firmly seat telescope tapered shaft in reference hole each time telescope is used.

The BAGSE alignment check is conducted by inserting the tapered mounting shafts of the boresight telescopes into pairs of holes, steps 1 through 21 of table 2-1, and by checking for alignment within listed tolerances. If any step is not within tolerance or cannot be adjusted to tolerance, BAGSE will be repaired or component will be shipped to higher level maintenance for repair.

*a.* Remove cable assembly (20, figure 1-2) from case No. 6. Connect cable to 28 vdc power supply.

*b.* Remove illumination assemblies (12) from case

No. 5. Connect illumination assemblies to cable assembly (20) (step *a.* above). An illumination assembly will be placed on each target telescope during each sighting.

*c.* Remove boresight telescopes (17) from case No. 5.

#### NOTE

Each block assembly contains one or more holes in which the boresight telescopes are mounted for alignment sighting. Each block and hole is identified by letters and numbers. Refer to figure 1-1 to identify block letters.

*d.* Calibration check all boresight telescopes for alignment accuracy by the following method:

#### NOTE

Check calibration of boresight telescopes before use in any step in this procedure or any time that the accuracy of the boresight telescope is suspect or that validity of a sighting angle measurement is in doubt.

(1) Inspect telescope mounting holes for debris or foreign material. Clean in accordance with paragraph 2-9.

(2) Install and firmly seat boresight telescopes in BAGSE movable frame left hand wing block (10, figure 1-1) and right hand wing block (17) using holes marked RWII and LWII (barrel of telescope horizontal or vertical to the floor).

(3) Set main focusing adjustment collar/knob on each boresight telescope so that the infinity mark (lazy eight  $\infty$ ) is near the focus reference mark  $\nabla$  or at the end of travel in the infinity (long range) direction. Sight through the telescope eyepiece and adjust main focusing collar until the target reticle appears sharply defined.

(4) To check the alignment of a chosen telescope, place a boresight telescope illumination assembly over the eyepiece of the designated target telescope and apply DC power to the lamp. Sight through the sighting telescope and observe the placement of the sighting reticle center with respect to the target reticle center.



Table 2-1. BAGSE Alignment Check

| Step | Block No. | Block Nomenclature and Hole Identification |      | Block No. | Tolerance (Milliradians) Required |
|------|-----------|--|------|-----------|-----------------------------------|
| 1    | 479       | LW11                                       | RW11 | 480       | 1                                 |
| 2    | 495       | FR14                                       | LW14 | 479       | 1                                 |
| 3    | 495       | FR15                                       | RW15 | 480       | 1                                 |
| 4    | 441       | TL50                                       | TR50 | 440       | 1                                 |
| 5    | 422       | TF18                                       | TR18 | 440       | 1                                 |
| 6    | 422       | TF19                                       | TL19 | 441       | 1                                 |
| 7    | 480       | RW11                                       | ZO11 | 475       | 1/2                               |
| 8    | 479       | LW11                                       | ZO11 | 475       | 1/2                               |
| 9    | 495       | FR28                                       | ZO28 | 475       | 1/2                               |
| 10   | 445       | UP41                                       | ZO41 | 475       | 1/2                               |
| 11   | 479       | LW12                                       | UP12 | 445       | 1                                 |
| 12   | 480       | RW13                                       | UP13 | 445       | 1                                 |
| 13   | 460       | FG22                                       | LW22 | 479       | 1                                 |
| 14   | 460       | FG23                                       | RW23 | 480       | 1                                 |
| 15   | 460       | FG26                                       | TL26 | 441       | 1                                 |
| 16   | 460       | FG27                                       | TR27 | 440       | 1                                 |
| 17   | 460       | FG24                                       | LG24 | 462       | 1                                 |
| 18   | 460       | FG25                                       | RG25 | 461       | 1                                 |
| 19   | 462       | LG51                                       | RG51 | 461       | 1                                 |
| 20   | 462       | LG20                                       | TR20 | 440       | 1                                 |
| 21   | 461       | RG21                                       | TL21 | 441       | 1                                 |

(5) Rotate the sighting telescope approximately 180 degrees from original position and sight through it. Observe the placement of the sighting reticle center with respect to the target reticle center. Most telescopes will exhibit a change of approximately 0.5 milliradian (mr) (1.72 minutes). This is equal to a telescope alignment error of approximately 0.25 (mr) or one half of the noted change. See figure 2-2 to read error examples.

NOTE

Replace telescope when the change in either horizontal or vertical line of sight exceeds 2 mr error.

e. Check BAGSE alignment.

(1) Center all sliders at midpoint of their adjustment.

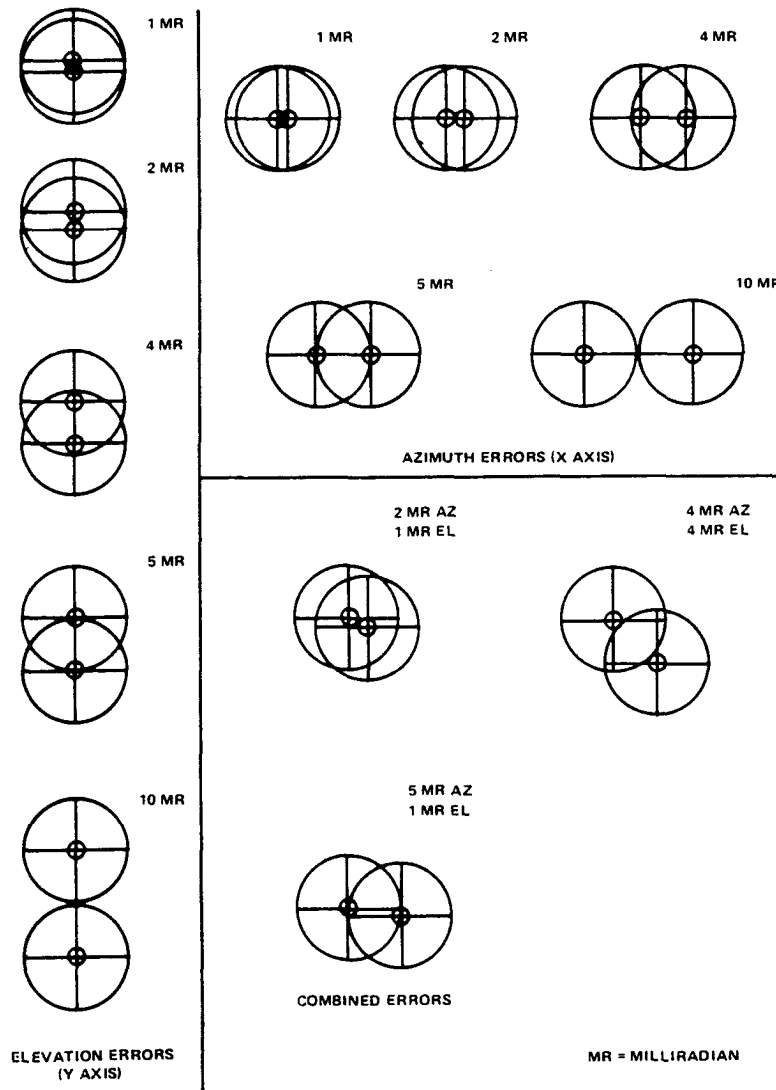


Figure 2-2. Typical Telescope Alignment Angular Displacements Samples

NOTE

Each alignment step, with alignment holes and allowable tolerance, is listed in table 2-1.

Four alignment blocks, left gun, right gun, forward gun, and upper block can be adjusted at AVIM. All blocks on main frame assembly shall be adjusted at higher level maintenance. Any failure of an alignment step will require either block adjustment or component replacement.

(2) Perform steps 1 through 6 of table 2-1. If assembly is not within tolerance level, mainframe must be shipped to depot level for maintenance.

NOTE

Helicopter Preparation: remove TSU top and side fairings. Paragraphs 3 through 11 are performed on the helicopter only after initial receipt of BAGSE, or if the shelf assembly reference pads are not aligned the same as the TSU reference pads (within 2 mr tolerance).

(3) Install handle assemblies (case No. 5) item 14 on TSU, loosen handle assemblies on BAGSE stand and loosen knobs attaching lower frame. Remove complete BAGSE from stand and install frame on TSU. Tighten handle retainers, position lower frame retainers and tighten knobs.

NOTE

Loosen azimuth retaining knobs to allow the frame to settle. Do not tighten until assembly is to be removed from helicopter.

(4) Install TSU-GSE (ZO) block on TSU reference pads. Tighten block screws snugly. Install mirrors in the three positions: front Z028, right Z011, and left Z011.

(5) Adjust slider knobs while sighting through tapered holes in BAGSE moveable frame forward FR28, right RW11, and left LW11 in any convenient sequence. (See figure 2-3). Satisfactory preliminary alignment is obtained when observer has adjusted slider so that reflected image of tapered hole appears centered on mirror target when looking directly through tapered hole at target. This operation centers the BAGSE moveable frame.

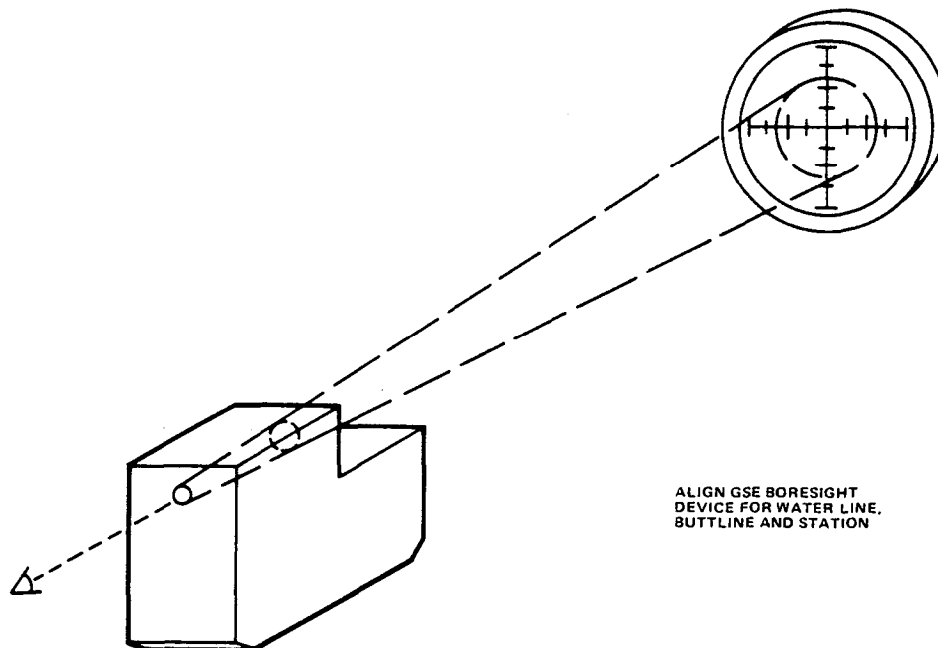


Figure 2-3. Mirror Alignment Example

(6) Remove three mirror targets from TSU boresight block tapered holes ZO28, ZO11, and ZO11, and store mirrors.

(7) Install boresight telescopes in boresight alignment assembly (ZO), left wing block (LW) and right wing block (RW) as listed in steps 7 and 8, table 2-1.

(8) Adjust sliders to position boresight alignment assembly in yaw and roll to meet tolerances in steps 7 and 8, table 2-1.

(9) Transfer telescope to position in step 9, table 2-1 and adjust sliders until pitch adjustment is within tolerance.

(10) Remove telescopes, remove TSU-GSE (ZO) block from TSU, tighten azimuth retaining knobs, remove BAGSE in reverse order of installation and install BAGSE on stand assembly.

#### NOTE

The next step is shelf alignment. The sliders will not be used for this procedure.

(11) Install TSU-GSE (ZO) block on shelf. Install telescope in position RW11 and target telescope with illumination assembly in position ZO11, and adjust shelf support screws to align vertical and horizontal reticle, (step 7, table 2-1). Install telescope in position LW11 and target telescope in position ZO11 and adjust shelf support screws to align target reticle (step 8, table 2-1). Install telescope in FR28, install target telescope in ZO28 and adjust shelf support to align for tolerance in step 9, table 2-1.

(12) Using steps 10, 11, and 12, table 2-1, align upper block (UP), if required, using following procedures and figure 2-4:

(a) Loosen all locknuts. Yaw adjustment is made by loosening one socket head screw and tightening the other.

(b) Adjust three angular alignment bolts (2) to adjust pitch and roll. Tighten bolts and locknuts.

(13) Using steps 13 and 14, table 2-1, align forward gun block (FG), if required, using procedures in paragraph (12) (a) and (b) above.

(14) Using steps 15 and 16, table 2-1, check forward gun block for azimuth alignment. If not within tolerance, adjust block using procedures in paragraph 12 (a) and (b).

(15) Using step 17, table 2-1, align left gun block (LG), if required, using procedures in paragraph (12) (a) and (b) above.

(16) Using step 18, table 2-1, align right gun block (RG), if required, using procedures in paragraph (12) (a) and (b) above.

(17) Compare LG to RG, using step 19, table 2-1. Roll and yaw sensitivity is better in step 19 than steps 17 and 18, table 2-1. Any adjustment will improve alignment. If any adjustment is made to either gun block, repeat paragraphs (12) and (13) above.

(18) Compare gun blocks to TSU blocks using steps 20 and 21, table 2-1.

(19) If any adjustment was required in paragraph (15) above, repeat paragraphs (11) through (15) until steps 15 through 19, table 2-1, are within tolerances listed.

f. Remove boresight telescopes and store in case No. 5.

g. Disconnect 28 vdc power supply.

h. Disconnect illumination assemblies and store in case No. 5.

i. Disconnect cable assembly from electrical power source and store in case No. 5.

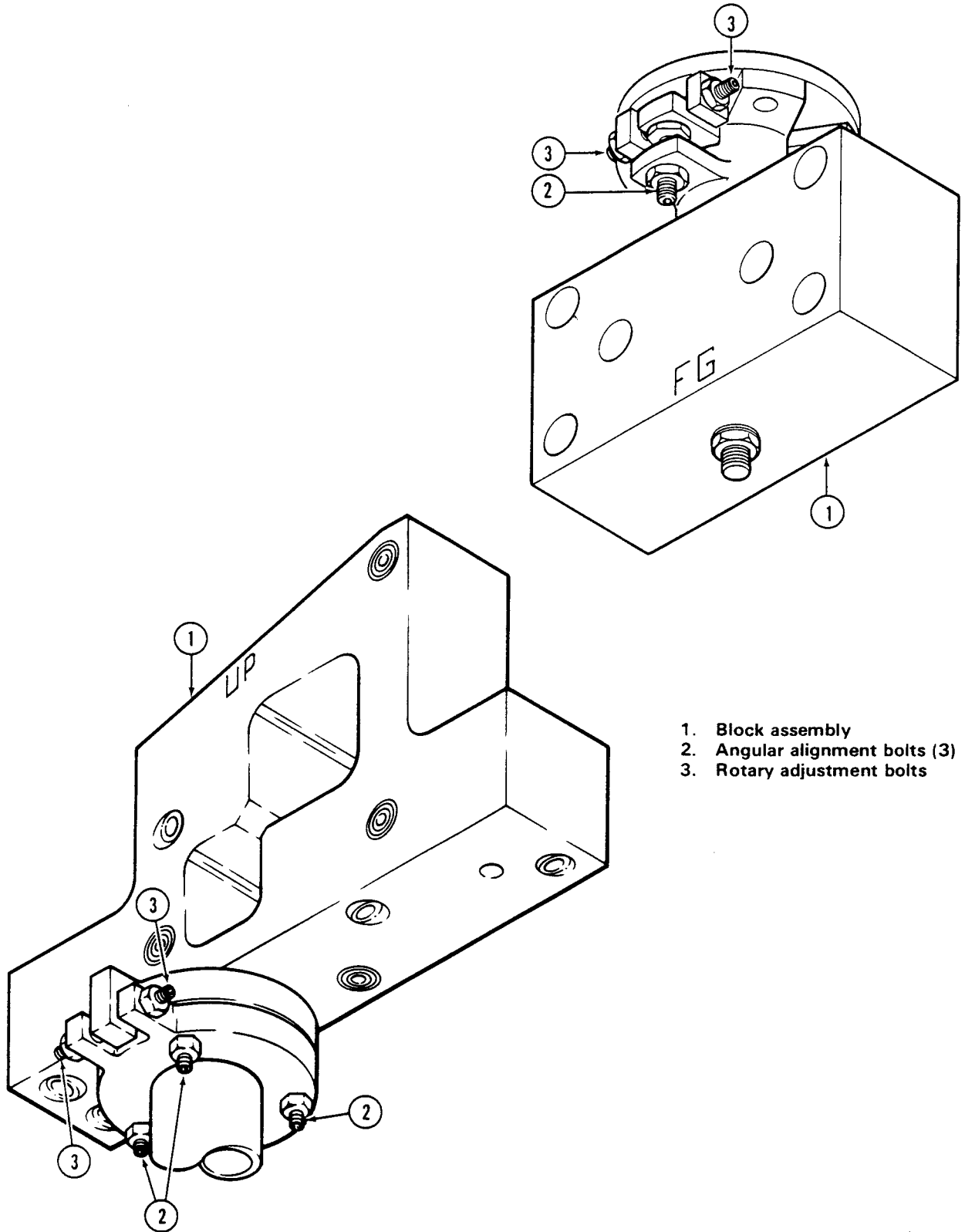


Figure 2-4. Blocks Assemblies Adjustments

**2-5. Disassembly.**

a. Disassemble boresight assembly first. (Figure 1-1.)

(1) Loosen two TSU-GSE boresight alignment assembly screws from shelf assembly and remove alignment assembly (21). Store assembly in case No. 5.

(2) Disconnect left gun optical frame assembly (8) fitting (7) and remove assembly. Store assembly in case No. 4.

(3) Disconnect right gun optical frame assembly (3) fitting (7) and remove assembly. Store assembly in case No. 4.

(4) Disconnect forward gun optical frame assembly (15) fitting (7) and remove assembly. Store assembly in case No. 4.

**NOTE**

Main frame assembly must be supported after upper frame assembly is disconnected.

(5) Support main frame assembly (18).

(6) Disconnect upper frame assembly (19) fitting (7). Lift assembly to separate mounting bearing from slider assembly stud. Store assembly in case No. 3.

(7) Remove two attaching knobs from lower slider assemblies studs and store in case No. 5. Lift main frame assembly (18) from frame alignment mounting (1). Store frame assembly in case No. 3.

(8) Loosen two lower clamp knobs and rotate clamps from behind crossmember.

(9) Loosen handle knobs (5) from over flanges on left and right upper mounting points.

(10) Lift frame alignment mounting (1) from stand assembly and store in case No. 2.

b. Disassemble stand assembly. (Figure 2-1.)

(1) Remove shelf assembly (6) from vertical support assembly (2) by removing two knobs and pulling shelf from support. Store shelf in case No. 1.

(2) Disconnect quick release pin (3) from each end of brace assembly (4). Remove brace.

(3) Disconnect three quick release pins (3) and lift vertical support assembly (2) from base assembly (5).

(4) Store base assembly (5) in case No. 1.

(5) Store vertical support assembly (2) in case No. 1.

(6) Store brace assembly (4) in case No. 1.

**SECTION II. LUBRICATION**

**2-6. General.** Lubrication is required only for the casters of the stand assembly. The casters will be lubricated as required.

**2-7. Lubrication.** Lubricate two places on each front caster and one place on each rear caster. Wipe off excess grease from around caster axle.

**Expendable Supplies and Materials List**

| Nomenclature | Part No./ Specification |
|--------------|-------------------------|
| Grease       | MIL-G-25537             |

**SECTION III. PRE-EMBARKATION INSPECTION OF MATERIEL IN UNITS ALERTED FOR OVERSEAS MOVEMENT**

**NOTE**

Refer to Section I for Inspection/Servicing procedures.

**SECTION IV. TROUBLESHOOTING**

**2-8. Troubleshooting.** Failure of any alignment step, table 2-1, will require isolation of fault to block assembly or frame.

*a.* Check all fittings to ensure correct assembly (all dowel pins and holes engaged and fittings securely connected).

*b.* Ensure block assemblies on all alignment assemblies are firmly installed and seated on their respective mounting plates (retainer bolts and lockwire undisturbed).

**NOTE**

All blocks mounted on the main frame assembly are aligned and shimmed during manufacture and must not be disturbed. If blocks have been moved or altered the main frame assembly shall be sent to depot for disposition.

*c.* Ensure main frame assembly mounting surfaces are properly seated on slider studs.

*d.* Check for failure of block alignment or frame out of alignment. Refer to table 2-2.

**Table 2-2. Troubleshooting**

---

**MALFUNCTION**

**TEST OR INSPECTION**

**CORRECTIVE ACTION**

---

**BAGSE**

**1. SELF-ALIGNMENT BORESIGHT ALIGNMENT DOES NOT CHECK WITHIN TOLERANCE.**

Step 1. Ensure boresight telescopes are properly aligned.

Step 2. Check to see if one block assembly alignment holes do not align with any other block assembly.

If block assembly main frame assembly is misaligned, replace main frame assembly and ship to depot for repair.

If block assembly on other than main frame assembly is misaligned, adjust block assembly mounting adjustments.

Step 3. Check block assembly boresight telescope mounting port bushing for looseness or damage.

**Ship block assembly to depot level for bushing replacement.**

Step 4. Check frame assembly for warped, bent or other damage to cause misalignment of block assembly. A twisted frame is suspect when more than one block cannot be aligned.

**Ship main frame assembly to depot for repair.**

---

**SECTION V. GENERAL MAINTENANCE**

**2-9. Boresight Assembly.**

**Expendable Supplies and Materials List**

| Nomenclature  | Part No./ Specification                       |
|---|---|
| Detergent, General Purpose Cloth, Cleaning, Flannel | MIL-D-16791<br>CCC-C-0046,<br>Type I, Class 1 |

*a. Cleaning.*



Do not spray detergent into sliders as corrosion preventive compound will be washed off of metal.

(1) Spray metal parts of BAGSE with detergent. Wipe off with clean cloth.

(2) After all components have air-dried, store in proper places in cases.

*b. Inspection.* Inspect BAGSE for the following:

**NOTE**

Disassemble to the extent necessary to accomplish maintenance or inspection required.

(1) Frame assembly for dents and nicks.

(2) Alignment blocks for dents, nicks, or loose bushings.

(3) Alignment blocks for security of mounting.

(4) Fittings for condition of tangs and slots.

(5) Sliders for security of mounting.

(6) Slider knobs for freedom of rotation without any play.

(7) Threaded items for thread damage.

(8) Cases for damage, condition of latches and hinges.

**2-10. Stand Assembly.**

**Expendable Supplies and Materials List**

| Nomenclature  | Part No./ Specification                       |
|---|---|
| Detergent, General Purpose Cloth, Cleaning, Flannel | MIL-D-16791<br>CCC-C-0046,<br>Type I, Class 1 |

*a. Cleaning.*



Do not spray bearings of wheels with detergent.

(1) Spray metal parts of stand with detergent and wipe off with clean cloth.

(2) After all components have air-dried, store in case.

*b. Inspection.* Inspect stand assembly for the following:

(1) Stand assembly frame for dents.

(2) Quick release pins for operation and secured to stand.

(3) Casters for condition, ease of rotation, and brakes for operation.

**2-11. Preventive Maintenance Checks and Services.** Perform preventive maintenance checks and services as shown in table 2-3.



**Table 2-3. Preventive Maintenance Checks and Services**

B - Before Use  
 D - During Use  
 M - Monthly

| Item No. | Interval |   |   | Item To Be Inspected | Procedures  | Equipment Will Be Reported Not Ready (Red) If;             |
|----------|----------|---|---|----------------------|---|--|
|          | B        | D | M |                      |   |  |
| 1.       | •        |   |   | Lights               | Check operation of lights.  |  |
| 2.       | •        |   |   | Boresight Telescope  | Check boresight telescope angular alignment between optical axis and axis of tapered shaft. | Telescope misalignment will not allow boresight alignment. |
| 3.       | •        | • |   | BAGSE                | Check boresight assembly alignment within tolerance.  | Any angular alignment not within alignment                 |
| 4.       |          |   | • | Sliders              | Corrosion treatment of sliders if located in areas of high atmospheric humidity.            |  |

CHAPTER 3

REPAIR OF BORESIGHT ASSEMBLY, GROUND SUPPORT EQUIPMENT

SECTION I. BORESIGHT ASSEMBLY REPAIR

**3-1. General.** The boresight assembly consists of a series of tubes and blocks grouped together in subassemblies. Repair of the assembly is made by replacement of a subassembly. Limited repair is allowed at AVIM to some subassemblies.

**3-2. Repair of Boresight Assembly.**

**Expendable Supplies and Materials List**

| Nomenclature                   | Part No./ Specification    |
|--------------------------------|----------------------------|
| Pads, Scouring                 | L-P-50,<br>Type I, Class 1 |
| Polyamide Epoxy Primer         | MIL-P-23377,<br>Class 2    |
| Compound, Corrosion Preventive | WD 40 MIL-C-23411          |
| Barrier Material               | MIL-13-121,<br>Grade A     |
| Tape, Pressure Sensitive       | PPP-T-60,<br>Type H        |

**NOTE**

Parts replacement is required when damaged to the extent that boresight assembly self-alignment cannot be attained.

Unserviceable assemblies will be shipped to depot for repair.

*a. Repair of Main Frame Assembly.*

(1) Remove main frame assembly (18, figure 1-1) from boresight assembly. Refer to Chapter 2, paragraph 2-5.

**NOTE**

No disassembly of main frame assembly is allowed.

(2) Dent repair.

(a) Using scouring pads, remove paint from dent and surrounding area.

(b) Replace part if cracked.

(c) If dented only, paint cleaned area with polyamide epoxy primer.

(3) Replace frame assembly if alignment blocks (10, 14, 17, 24, 28 and 31, figure C-3) have been shifted on mounting surfaces, blocks damaged, fittings damaged, or frame warped or bent until self-alignment is not within tolerance.

*b. Repair of Right Gun Frame Assembly.*

(1) Remove frame assembly (3, figure 1-1) from boresight assembly by disconnecting frame assembly fitting and removing assembly.

(2) Dent repair.

(a) Using scouring pads, remove paint from dent and surrounding area.

(b) Replace part if cracked.

(c) If dented only, paint cleaned area with polyamide epoxy primer.

(3) Disassemble alignment assembly as required to replace failed part. Refer to figure C-4 for breakdown and parts identification numbers unless otherwise indicated.

(a) Remove alignment assembly from frame by removing three bolts(1) and washers (2).

(b) Remove two nuts (11) and setscrews (10) and remove base plate assembly (15). Remove setscrew (14) and nut (12) from base plate.

(4) Inspect each part. Any discrepancy, except cleanliness is cause for replacement.

(a) Warped or bent.

(b) Damage.

(c) Loose or missing parts.

(d) Threaded items for thread damage.

(e) Cleanliness. Clean, if required, per paragraph 2-9a.

(5) Assemble alignment assembly. Refer to figure C-4 for breakdown and parts identification numbers unless otherwise indicated.

(a) Thread nut (12) onto setscrew (14).

(b) Install setscrew in base plate assembly (15) center hole.

(c) Position column assembly (16) center hole over setscrew rounded head with one shaft arm between raised plates of plate assembly.

(d) Measure between the three arms of shaft and adjacent surface of base plate assembly (figure 3-1, view A). Adjust nut and setscrew until measurement equals 0.13 inches.

(e) Install two setscrews (10) and nuts (11) in base plate assembly, centering arm of shaft between plates of base plate assembly.

(6) Adjust block on shaft using following steps and figure 3-1:

(a) Reconfirm that shaft arm is at midpoint in base plate, adjusting, if necessary, rotary adjustment screws (6) and nuts (5) until arm is at midpoint.

(b) Reconfirm that space between the three shaft arms and adjacent surface of baseplate assembly is 0.13 inches. If necessary, adjust screw (8) through nut (9) (View A) until dimension is met.

(c) Insert three bolts and washers (1 and 2, figure C-4) through holes of collar and baseplate assembly and fasten alignment assembly to frame assembly (18).

(d) Turn bolts (13) counterclockwise until

bolt heads contact shaft arms. Do not tighten at this time.

(e) Install right gun frame assembly on boresight assembly and self-align per alignment instructions.

*c. Repair of Left Gun Frame Assembly.*

(1) Remove frame assembly (8, figure 1-1) from boresight assembly by disconnecting frame assembly fitting and removing assembly.

(2) Repair dents as listed in paragraph b.(2) above.

(3) Disassemble alignment assembly as required to replace failed part. For disassembly instructions, refer to paragraph b.(3) above.

(4) Inspect each part. Refer to paragraph b.(4) above.

(5) Assemble alignment assembly, following steps in paragraph b.(5) above.

(6) Adjust left gun alignment block assembly on shaft arm following paragraph b.(6) above. In paragraph b.(6)(e), install left gun frame assembly.

*d. Repair of Forward Gun Frame Assembly.* Refer to figure C-6 for breakdown and parts identification numbers unless otherwise indicated.

(1) Remove frame assembly (15, figure 1-1) from boresight assembly by disconnecting frame assembly and removing assembly.

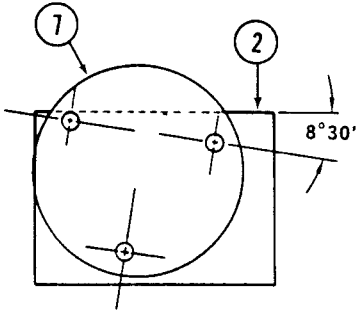
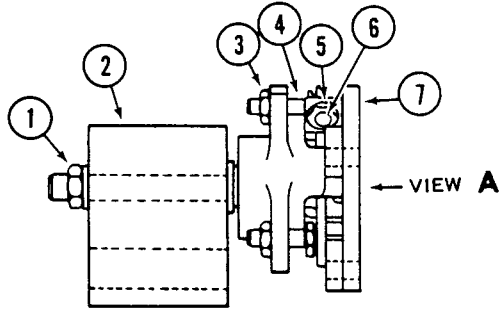
(2) Repair dents as listed in paragraph b.(2) above.

(3) Disassemble alignment assembly as required to replace failed part. For disassembly instructions, refer to paragraph b.(3) above.

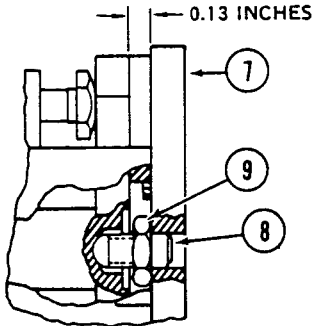
(4) Inspect each part. Refer to paragraph b.(4) above.

(5) Assemble alignment assembly following steps in paragraph b.(5) above.

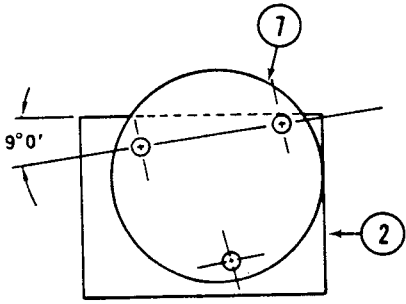
(6) Adjust block assembly (6, figure C-6) on shaft arm, following paragraph b.(6) above.



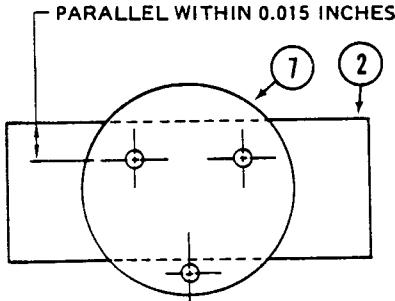
ALIGNMENT ASSEMBLY, GUN, LEFT SIDE



VIEW A



ALIGNMENT ASSEMBLY, GUN, RIGHT SIDE



ALIGNMENT ASSEMBLY, GUN, FORWARD

- 1. Nut
- 2. Block assembly
- 3. Nut (3)
- 4. Angular alignment bolt (3)
- 5. Nut (2)
- 6. Rotary adjustment screw (2)
- 7. Base plate assembly
- 8. Screw
- 9. Nut

Figure 3-1. Gun Block Alignment

*e. Repair of Upper Frame Assembly. Refer to figure C-7 for breakdown and parts identification numbers unless otherwise indicated.*

(1) Remove frame assembly (19, figure 1-1) from boresight assembly. Refer to boresight assembly disassembly, paragraph 2-5.

(2) Repair dents as listed in paragraph b.(2) above.

(3) Disassemble alignment assembly as required to replace failed part. Refer to figure C-7 for breakdown and parts identification numbers unless otherwise indicated.

(a) Remove three bolts (6 and 7) and washers (8) and remove block assembly (9).

(b) Remove five setscrews (2) and nuts (1).

(c) Remove bolt (3) and two washers (4 and 5) and remove plate assembly.

(4) Inspect each part. Any discrepancy, except cleanliness, is cause for replacement.

(a) Warped or bent.

(b) Damage.

(c) Loose or missing parts.

(d) Threaded items for thread damage.

(e) Plate bearing for serviceability.

(f) Clean, if required, per paragraph 2-9.a.

(5) Assemble alignment assembly. Refer to figure C-7 for breakdown and parts identification numbers.

(a) Position plate assembly in position on mounting pad with tang of plate assembly between plates of mounting pad.

(b) Position washers (4 and 5) on bolt (3) with washer (4) next to bolt head. Insert bolt through plain bearing (14) and tighten.

(c) Install three setscrews (2) and nuts (1) through mounting pad until setscrews contact plate assembly. Setscrews will be adjusted during boresight self-alignment.

(d) Install two setscrews (2) and nuts (1) through plates of mounting pad and center plate assembly tang between plates.

(e) Using three bolts (6 and 7) and washers (8) fasten block assembly to plate assembly. Ensure that long bolt (6) goes in position shown in figure C-7.

(f) Install upper frame assembly on boresight assembly and self-align per alignment instructions.

*f. Repair of Alignment Mounting Frame Assembly.*

(1) Remove mounting frame (1, figure 1-1) from boresight assembly. Refer to boresight disassembly instructions.

(2) Dents.

(a) Using scouring pads, remove paint from dent and surrounding area.

(b) Replace part if cracked.

(c) If dented only, paint cleaned area with polyamide epoxy primer.

(3) Disassemble mounting frame assembly (1) as required to replace failed part. Refer to figure C-8 for breakdown and parts identification numbers.

(a) Remove knob (12), washer (13) and pull clamp assembly (14) from frame.

(b) Remove retainer plate (18) from each side of frame by removing two screws (15) and washers (17) from each plate.

(c) Remove two nuts (26), washer (27), and teflon washer (28) from each upper slider stud (32 and 37). Remove frame assembly (39) from the two studs. Remove one teflon washer (28) from studs (32 and 37).

(d) Three sliders (21) are mounted on the frame (39). All are removed in the same manner.

Remove four screws (15) and washers (17) from slider and remove slider. Identify location of shims, if any, that are installed between slider and bracket. Retain shims for reinstallation.

(e) Remove three screws (16) and washers (17) and remove bracket (19) from each side of frame.

(f) Remove one bolt (24) and nut (20) from bracket (25) and remove from each side of frame.

#### NOTE

Shims may be installed between slider and frame. Carefully remove slider so as to retain location identification of any shims that may be installed.

(g) Loosen four bolts (29) and remove slider assembly (21) from fixed frame (42), allowing bolts to remain to hold any shims that may be installed. Remove any shims from bolts, retaining location identity. Remove bolts (29) and washers (30).

(h) Loosen four bolts (29) and remove slider assembly (36) from fixed frame (42), allowing bolts to remain to hold any shims that may be installed. Remove any shims from bolts, retaining location identity. Remove bolts (29) and washers (30).

(4) Inspect each part. Any discrepancy, except cleanliness, is cause for replacement.

(a) Warped or bent.

(b) Damage.

(c) Loose or missing parts.

(d) Threaded items for thread damage.

(e) Sliders for binding, corroded or worn.

(f) Cleanliness. Clean, if required, per paragraph 2-9.a.

(5) Corrosion control of slider assembly.

#### NOTE

The slider assemblies must be protected from environmental elements such as dust and dirt when not in use.

The lubrication task is for corrosion prevention only. Conduct this task monthly when BAGSE is used in areas of high atmospheric humidity.

(a) Remove any protective covering that may be over the slider.

(b) Spray between top plate (3, figure 3-2) and bottom plate (4) with corrosion preventive compound, WD 40 MIL-C-23411. Wipe away any excess lubricant.

(c) Rotate slide adjustment knob (5) in each direction to check freedom of motion and spread compound. Return slider to midposition.

(d) Wrap slider with barrier material or equivalent protective wrapping and secure with tape, unless mounting slider assembly on boresight assembly.

(6) Assemble mounting frame assembly. Refer to figure C-8 for breakdown and parts identification numbers.

#### NOTE

If slider studs do not align with holes in frame (39, figure C-8) slider shall be repositioned, using shims between slider and mounting.

(a) Position slider assembly (31) to right corner of fixed frame (42), installing any shims removed in same location. Fasten slider and shims with four bolts (29) and washers (30).

(b) Position slider assembly (31) to left corner of fixed frame (42), installing any shims removed in same location. Fasten slider and shims with four bolts (29) and washers (30).

(c) Insert one clamp (14) through hole in lower end on each side of fixed frame from rear to front. Install washer (13) and knob (12) on each of the two clamps.

(d) Position slider assembly (21) on upper center bracket of frame (39). Reinstall any shims, that were removed, in same location between slider and bracket. Fasten slider and shims with four screws (15) and washers (17).

(e) Position bracket (25) to bottom of frame and install bolt (24) and nut (20). Do not tighten nut at this time.

(f) Position bracket (19) against bottom of bracket (25) and fasten to frame with three screws (16) and washers (17).

(g) Tighten bolt (24) and nut (20).

(h) Repeat steps (e), (f), and (g) to install other bracket (25) and bracket (19).

(i) Position slider assembly (21) on right side bracket (25). Reinstall any shims, that were removed, in same location between slider and bracket. Fasten slider and shims with four screws (15) and washers (17).

(j) Position slider assembly (21) on left side bracket (25). Reinstall any shims, that were removed, in same location between slider and bracket. Fasten slider and shims with four screws (15) and washers (17).

(k) Install one washer (28) on each stepped stud (32) and (37) on fixed frame.

**NOTE**

If stepped studs (32 and 37) do not align with holes in frame (39), the stepped studs will be repositioned by installing, removing, or re-locating shims between slider mounting surface and frame mounting surface (step m. below). Four shim thicknesses are provided:

- P/N 209-071-502-101 - 0.0005 inches.
- P/N 209-071-502-103 - 0.001 inches.
- P/N 209-071-502-105 - 0.0015 inches.
- P/N 209-071-502-107 - 0.002 inches.

(l) With frame (39) turned so that sliders (21) face forward, position holes in upper corners of frame over stepped studs (32 and 37) on fixed frame.

(m) If holes do not align with stepped studs, reposition sliders studs by removing, installing or re-locating shims between slider and mounting surface until holes align with studs. Tighten slider mounting bolts to ensure no movement of sliders.

- 1. Stud
- 2. End plate
- 3. Top plate
- 4. Bottom plate
- 5. Adjustment knob

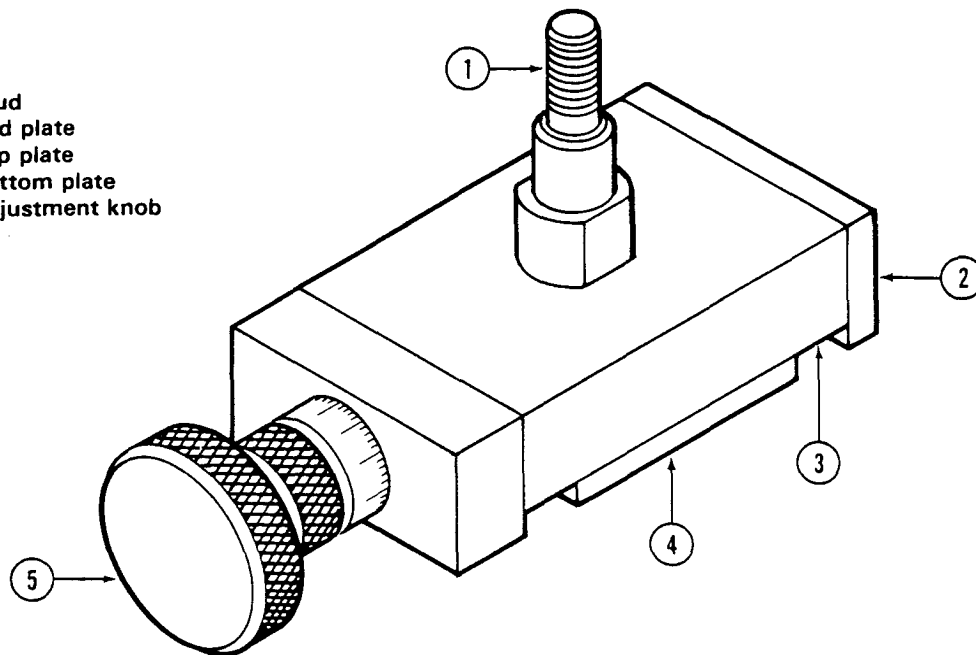


Figure 3-2. Slider Assembly (Typical)

(n) Install washer (28) and washer (27) over each stud with washer (28) against frame.

(o) Install one nut (26) on each stud and tighten until snug. Install second nut (26) to secure first nut.

(p) Ensure that slide tapes on each side of frame and fixed frame are in contact with each other.

(q) Ensure that bracket (19) screws are loose enough to allow bracket to move.

(r) Position plate (18) against mounting point on fixed frame with tape on plate facing tape on bracket (19). Fasten plate with two screws (15) and washers (17).

(s) Install second plate using steps (q) and (r) above.

NOTE

If bracket is forced against plate, movement of frame will be erratic during alignment. Bracket must touch plate with no force applied.

(t) Position both brackets (19) until the taped surfaces are flush with and parallel to the taped surfaces of both plates (18) with surfaces in contact with each other.

(u) Tighten the three mounting screws (16) on each bracket (19).

(v) Assemble boresight assembly per instructions in paragraph 2-3 and perform alignment per paragraph 2-4.

**3-3. Repair of Stand Assembly.**

**Expendable Supplies and Materials List**

| Nomenclature           | Part No./ Specification    |
|------------------------|----------------------------|
| Pads, Scouring         | L-P-50,<br>Type I, Class 1 |
| Polyamide Epoxy Primer | MIL-P-23377,<br>Class 2    |

*n. Dent Repair.*

(1) Using scouring pads, remove paint from dent and surrounding area.

(2) Replace part if cracked.

(3) If dented only, paint cleaned area with polyamide epoxy primer.

*b. Disassembly.*

(1) Remove knob (28, figure C-11) from each side of vertical support assembly (20).

(2) Remove five quick release pins (2) from chains (6).

(3) Remove four nuts (10), washers (11), washers (12), and bolts (13) from each rigid caster (14) and remove casters from base assembly (16).

(4) Remove four nuts (10), washers (12), washers (11), and bolts (13) from each swivel caster (15) and remove casters from base assembly (16).

*c. Inspection.* Replacement is required if discrepancy causes part to be unserviceable, or tmresight assembly to be twisted out of alignment when installed on stand.

(1) Warped or bent.

(2) Damage.

(3) Loose or missing parts.

(4) Threaded items for thread damage.

(5) Wheels for serviceability, smooth operation and brakes for condition.

(6) Quick release pins for condition.

*d. Assembly.*

(1) Attach swivel casters (15) to base assembly (16) using four bolts (13) with washers (11) under bolt heads and nuts (10), with washers (12) under nuts.



(2) Attach rigid casters (14) to base assembly (16) using four bolts (13) with washers (11) under bolt heads and nuts (10), with washers (12) under nuts.

(3) Connect five quick release pins (2) to chains (6).

(4) Screw knob (28) into each side of vertical support assembly (20).

**3-4. Repair of Boresight Assembly Miscellaneous Components.**

**Expendable Supplies and Materials List**

| Nomenclature           | Part No./ Specification    |
|------------------------|----------------------------|
| Pads, Scouring         | L-P-50,<br>Type I, Class 1 |
| Polyamide Epoxy Primer | MIL-P-23377,<br>Class 2    |

**NOTE**

Miscellaneous components are those components that are part of BAGSE, but do not mount on the boresight assembly. The components are stored in case numbers 5,6, and 7.

*a. Removal.* Remove component from case.

*b. Dent Repair.*

(1) Using abrasive material, such as scouring pad, remove paint from dent and surrounding area.

(2) If part is serviceable, paint cleaned area with polyamide epoxy primer.

**NOTE**

Components cannot be repaired at this level if damage or wear exists to the point that boresight alignment cannot be accomplished using the component.

*c. Disassembly.*

(1) TSU-GSE boresight alignment device assembly. Refer to figure C-10 for breakdown and parts identification numbers.

(a) Remove pin (1) from knob (2).

(b) Remove plate (5) and washer from pin (3) and knob (2).

(c) Remove knob (2) from block.

(d) Remove screw (7) and washer (8) and remove knob (6) and cable (9).

(2) Shelf assembly, pilot. Refer to figure C-10 for breakdown and parts identification numbers.

(a) Remove jam nut (29) and remove bolt (32) from each corner of shelf assembly (30).

(b) Remove second jam nut from bolt.

(c) Remove bolt (31), nut (24), and washer (25) and remove clevis assembly (34) from bolt.

(d) Remove four screws (27), nuts (24), and washers (26) and remove mounting ring (28) from shelf assembly.

(3) Shelf assembly, gunner. Refer to figure C-10 for breakdown and parts identification numbers.

(a) Remove jam nut (58) and remove bolt (66) from each aft corner of shelf assembly.

(b) Remove second jam nut from bolt.

(c) Remove nut (59), washer (61), and screw (60) and separate clevis (63) from bolt.

(d) Remove quick release pin (56) and remove post assembly (90).

(e) Disconnect pin (56) from cable (57).

(f) Loosen jam nut (58) and eye bolt (89) from post (90) and jam nut.

(g) Remove nut (59), washer (61), and screw (60) and remove clevis (77) from lower end of post assembly (90).

(h) Remove screw (67) and separate clevis base (78) from clevis (68).

NOTE

Lower bolt (85) has left-hand threads.

(i) Screw bolt (85) from lower end of post (90).

(j) Remove nut (86), washer (87) and remove clevis (88) from shelf assembly (93).

(k) Remove four nuts (59), washers (62), and screws (91) and remove mounting ring (92) from shelf assembly.

*d. Inspection.* Inspect each part for the following:

(1) Warped or bent.

(2) Damage.

(3) Loose or worn bushings.

(4) Threaded items for thread damage.

(5) Cleanliness. Clean, if required, per paragraph 2-9a.

*e. Assembly.*

(1) TSU-GSE boresight alignment device assembly. Refer to figure C-10 for breakdown and parts identification numbers.

(a) Attach knob (6) and cable to block assembly with washer (8) and screw (7).

(b) Thread knob (2) into block assembly.

(c) Install washer (4) on pin (3).

(d) Install plate on pin (3) and knob (2).

(e) Install pin (1) in knob (2) to hold plate on screw.

(2) Shelf assembly pilot. Refer to figure C-10 for breakdown and parts identification numbers.

(a) Position mounting ring (28) on shelf (30) and fasten with four screws (27), washers (26), and nuts (24).

(b) Attach clevis (34) to bolt (33) using bolt (31), washer (25), and nut (24).

(c) Install jam nut (29) on bolt.

(d) Insert bolt through slot in corner of shelf (30) and fasten with another jam nut.

(e) Install clevis on other three corners of shelf following steps (b), (c), and (d) above.

(3) Shelf assembly, gunner. Refer to figure C-10 for breakdown and parts identification numbers.

(a) Position mounting ring (92) on shelf assembly (93) and fasten with four screws, (91), washers (62), and nuts (59).

(b) Insert clevis (88) through shelf assembly and fasten with washer (87) and nut (86).

(c) Thread bolt (89) through jam nut (58) and into post (90).

(d) Attach clevis base (78) to clevis (79) using screw (67).

NOTE

Lower bolt (85) and lower end of post (90) have left-hand threads.

(e) Thread bolt (85) into lower end of post (90).

(f) Fasten clevis (68) to bolt (85) using screw (60), washer (61), and nut (59).

(g) Attach quick release pin (56) to cable (57).

(h) Fasten eye bolt (89) to clevis (88) with quick release pin (56).

(i) Connect Clevis (63) to bolt (66) using screw (60), washer (61), and nut (59).

(j) Install one jam nut (58) on bolt (66). Insert bolt through slot in shelf assembly. Fasten with jam nut (58).

(k) Install second clevis bolt in slot in shelf assembly following steps (i) and (j) above.

f. *Illumination Assembly. (Figure C-9.)*

(1) Screw lens off of light assembly.

(2) Remove lamp (50).

(3) Install lamp (50).

(4) Screw lens onto light assembly.

**3-5. Alignment and Boresighting Procedures.** For alignment and boresighting procedures refer to TM 9-1090-206-30.

CHAPTER 4  
MAINTENANCE OF AUXILIARY EQUIPMENT

---

Not Applicable



**CHAPTER 5**  
**FINAL INSPECTION**

---

**NOTE**

Final inspection will ensure that the BAGSE is within the alignment check tolerances as outlined in Chapter 2.



APPENDIX A

REFERENCES

**A-1. Technical Manuals.**

|                    |   |                      |   |
|--------------------|---|----------------------|---|
|                    |   | TM 9-1425-473-20     | Organizational Maintenance Instructions Armament Subsystem, Helicopter, TOW Guided Missile M 65.  |
| TM 9-1090-206-12   | Aviation Unit Maintenance Manual for Armament Subsystem, Helicopter: 20 mm Automatic Gun: XM97E1.   |                      |   |
|                    |   | TM 9-4931-378-13&P   | Operator Aviation Unit and Intermediate Maintenance Instructions with Repair Parts and Special Tool Lists (RPSTL) (Including Depot Maintenance Repair Parts and Special Tool List) for Test Set, Fire and Flight Air Data Subsystems: XM 142. |
| TM 9-1090-206-30   | Aviation Intermediate Maintenance Manual for Armament Subsystem, Helicopter: 20 mm Automatic Gun XM97E1.  |                      |   |
|                    |   | TM 9-4933-211-34P    | Direct Support and General Support Maintenance Repair Parts and Special Tools Lists (Including Depot Maintenance Repair Parts and Special Tools) for Portable Hydraulic/Electric Power Supply.  |
| TM 9-1090-207-13&P | Aviation Unit and Intermediate Maintenance Manual with Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools) for Stores Management.              |                      |   |
|                    |   | TM 11-5841-281-12    | Operator's and Organizational Maintenance Manual: Doppler Navigation Set, AN/ASN-128.   |
| TM 9-1270-212-14&P | Operator, Organizational, Direct and General Support Maintenance Manual for M 128 and M 136 Helmet Sight Subsystem (HSS) (Including Depot Maintenance Repair Parts and Special Tools List). |                      |   |
|                    |   | TM 11-5841-281-20&P  | Organizational Maintenance Manual (Including Repair Parts and Special Tools List): Doppler Navigation Set, AN/ASN-128.  |
| TM 9-1270-218-13&P | Aviation Unit and Aviation Intermediate Maintenance Manual for Fire Control Computer Subsystem XM22.  |                      |   |
|                    |   | TM 11-5841-284-238&P | Operator's, Organizational, and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List): Altimeter Set, Electronic, AN/APN-209(V), and AN/APN-209(V)Z.  |
| TM 9-1270-219-13&P | Operator, Aviation Unit and Aviation Intermediate Maintenance for Fire and Flight Air Data Subsystem XM 143.  |                      |   |
|                    |   |                      |   |
| TM 9-1270-220-13&P | Aviation Unit and Aviation Intermediate Maintenance for Head-Up Display Subsystem XM76.   |                      |   |



**TM 9-4931-583-30&P**

|   |  |  |   |
|---|--|--|---|
| TM 55-1520-236-CL                                 | Operator and Crewmembers Checklist - AH-1S Helicopter.   | <b>A-3. General Type Publications.</b> |   |
| TM 55-1520-236-10                                 | Operators Manual - Army AH-1S Helicopter.  | FM 5-20                                | Camouflage, Basic Principles, and Field Camouflage.                                   |
| TM 55-1520-236-23                                 | Aviation Unit and Intermediate Maintenance Instructions, Army Model AH-1S Helicopter.  | FM 5-25                                | Explosives and Demolitions.   |
| TM 55-1520-239-CL                                 | Operator and Crewmembers Checklist - AH-1S (MC) Helicopter.  | FM 21-40                               | Chemical, Biological and Nuclear Defense.   |
| TM 55-1520-239-10                                 | Operators Instructions - AH-1S (MC) Helicopter.  | TM 3-220                               | Chemical, Biological and Radio- logical (CBR) Decontamination.                        |
| TM 55-1520-239-23                                 | Aviation Unit and Intermediate Maintenance Instructions AH-1S (MC) Helicopter.   | TM 9-1300-206                          | Care, Handling, Preservation and Destruction of Ammunition.                           |
|   |  | TM 9-1900                              | Ammunition, General.  |
|   |  | TM 36-750                              | The Army Maintenance Management System (TAMMS).                                       |
| <b>A-2. Repair Parts and Special Tools Lists.</b> |  |  |   |
| TM 9-1090-206-20P                                 | Aviation Unit Maintenance Repair Parts and Special Tools List for Armament Subsystem, Helicopter; 20 mm Automatic Gun: XM97E1.         | TM 740-90-1                            | Administrative Storage of Equipment.  |
| TM 9-1090-206-30P                                 | Aviation Intermediate Maintenance Repair Parts and Special Tools List for Armament Subsystem, Helicopter; 20 mm Automatic Gun; XM97E1. | TM 743-200-1                           | Storage and Materiel Handling.  |
| TM 55-1520-236-23P                                | Aviation Unit and Intermediate Maintenance Repair Parts and Special Tools List - Army Model AH-1S Helicopter.                          | TM 750-244-1-5                         | Procedures for Destruction of Aircraft and Associated Equipment to Prevent Enemy Use. |
| TM 55-1520-239-23P                                | Aviation Unit and Intermediate Maintenance Repair Parts and Special Tools List - Army Model AH-1S (MC) Helicopter.                     | TM 750-244-2                           | Procedures for Destruction of Army Materiel to Prevent Enemy Use.                     |
|   |  | TM 9-207                               | Operation and Maintenance of Army Materiel in Extreme Cold Weather.                   |
|   |  | TM 55-1500-204-25/1                    | General Aircraft Maintenance Manual.  |

APPENDIX B  
MAINTENANCE ALLOCATION CHART

---

Refer to TM 9-1090-206-12.



APPENDIX C

REPAIR PARTS AND SPECIAL TOOLS LIST

SECTION I. INTRODUCTION

**1. Scope.** This manual lists repair parts and special tools required for the operation and performance of the Boresight Assembly, Ground Support Equipment, T102300-107. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

**2. General.** This repair parts and special tools list is divided into the following sections:

a. *Section II. Repair Parts List.* A list of repair parts authorized for use in the performance of maintenance. This list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending numerical 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 for the performance of maintenance at the aviation intermediate support level.

c. *Section IV. National Stock Number (NSN) 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 alphanumeric sequence (e.g., MS will precede M1) of all part numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

**3. Explanation of Columns.** The following provides an explanation of columns found in the tabular listings:

a. *Illustration.* This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration in which the item is shown.

(2) *Item number.* The number used to identify each item called out in the illustration.

b. *Source, Maintenance, and Recoverability Codes (SMR).*

(1) *Source code.* Source codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

| Code | Definition  |
|------|---|
| PA   | Item procured and stocked for anticipated or known usage.   |
| PB   | Item procured and stocked for insurance purposes because essentiality dictates that a minimum quantity be available in the supply systems.  |
| PC   | Item procured and stocked which otherwise would be coded PA except that it is deteriorative in nature.  |
| PD   | Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfitting. Not subject to automatic replenishment.   |
| PE   | Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.  |
| PF   | Support equipment which will not be stocked but which will be centrally procured on demand.   |
| PG   | Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later time. |

| Code | Definition  |
|------|---|
| KD   | An item of a depot overhaul repair kit and not purchased separately. Depot kit is defined as a kit that provides items required at the time of overhaul or repair.                                |
| KF   | An item of a maintenance kit and not purchased separately. Maintenance kit is defined as a kit that provides an item that can be replaced at aviation unit or intermediate levels of maintenance. |
| KB   | Item included in both a depot overhaul repair kit and a maintenance kit.  |
| MO   | Item to be manufactured or fabricated at aviation unit level.   |
| MF   | Item to be manufactured or fabricated at aviation intermediate maintenance level.   |
| MD   | Item to be manufactured or fabricated at depot maintenance level.   |
| AO   | Item to be assembled at aviation unit level.  |
| AF   | Item to be assembled at aviation intermediate level.  |
| AD   | Item to be assembled at depot maintenance level.  |
| XA   | Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.   |
| XB   | Item is not procured or stocked. If not available through salvage, requisition.   |
| XD   | A support item that is not stocked. When required, item will be procured through normal supply channels.  |

**NOTE**

Cannibalization or salvage maybe used as a source of supply for any item source 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.

| Code | Application/Explanation   |
|------|---|
| O    | Support item is required, replaced, used at aviation unit support level.                          |
| F    | Support item is removed, replaced, used at the aviation intermediate support level.               |
| D    | Support item is removed, replaced, used at depot, mobile depot, specialized repair activity only. |

(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  |
|------|--|
| O    | The lowest maintenance level capable of complete repair of the support item is the aviation unit support level.  |
| F    | The lowest maintenance level capable of complete repair of the support item is the aviation intermediate support level.  |
| D    | The lowest maintenance level capable of complete repair of the support item is the depot, level, performed by depot, mobile depot, or specialized repair activity. |
| Z    | Nonreparable. No repair is authorized.   |

(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:

| Code | Description   |
|------|---|
| 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 aviation unit level.  |
| F    | Reparable item. When uneconomically reparable, condemn and dispose at aviation intermediate level.  |
| D    | Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.   |
| A    | Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical 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 will be used for requisitioning purposes.

d. *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.

**NOTE**

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

e. *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.

f. *Description.* Indicates the Federal item name and, if required, a minimum description to identify the items.

g. *Unit of Measure (U/M).* Indicates the standard of the basic quantity of the listed items 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.).

**4. 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 repair part belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same groups.

(2) *Second.* Find the illustration covering the functional group to which the repair part belongs.

(3) *Third.* Identify the repair part on the illustration and note the illustration figure and item number of the repair part.

(4) *Fourth.* Using the repair parts list, find the assembly or subassembly to which the repair part belongs and locate the illustration 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 ascending NIIN sequence, followed by a list of part numbers in ascending alphanumeric sequence (e.g. MS will precede M1) cross-referenced to the illustration figure number and item number.

(2) *Second.* After finding the figure and item number, locate and figure and item number in the repair parts list.

5. Abbreviations.

Abbreviations

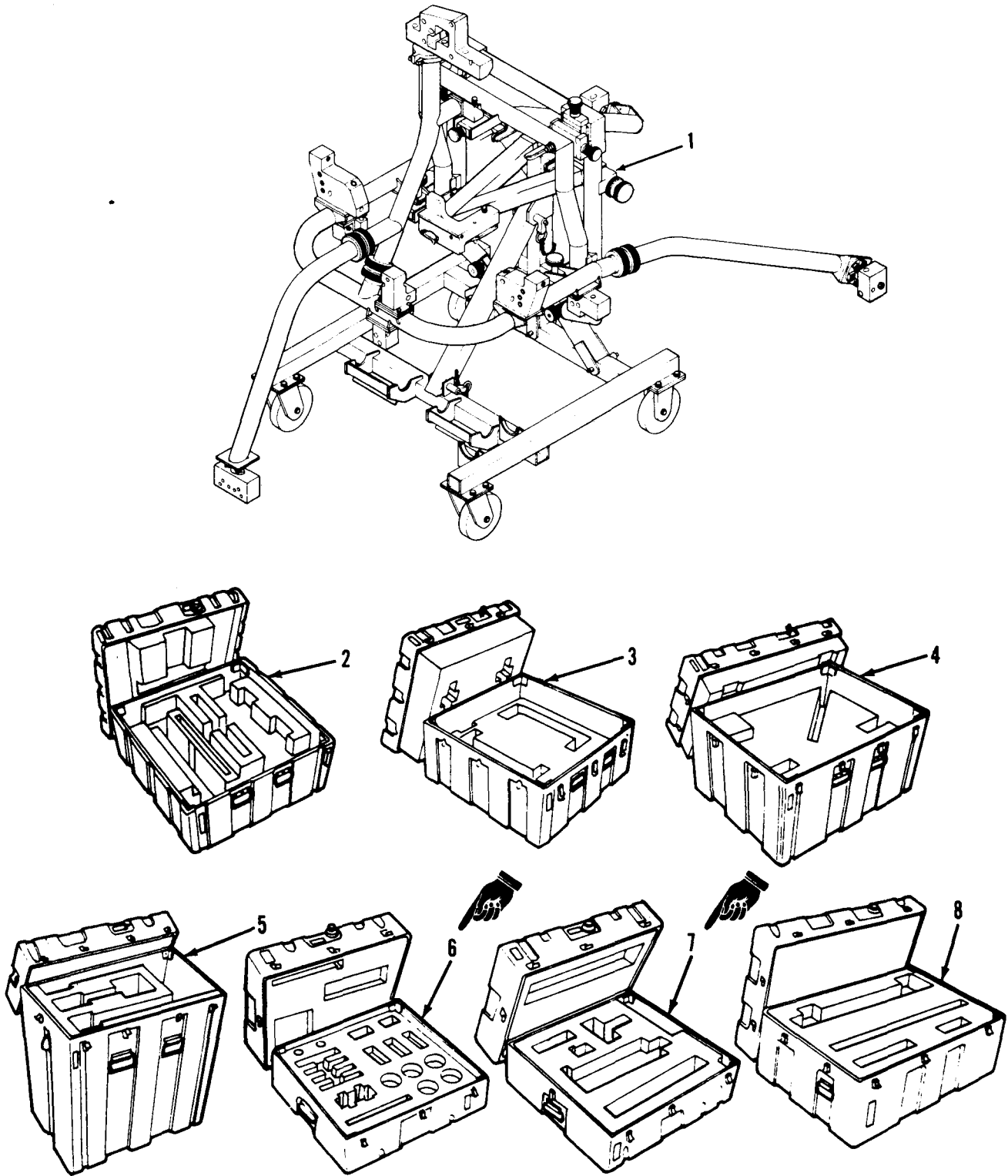
Explanation

V  
Ref

Variable  
Reference

**SECTION II. REPAIR PARTS LIST**

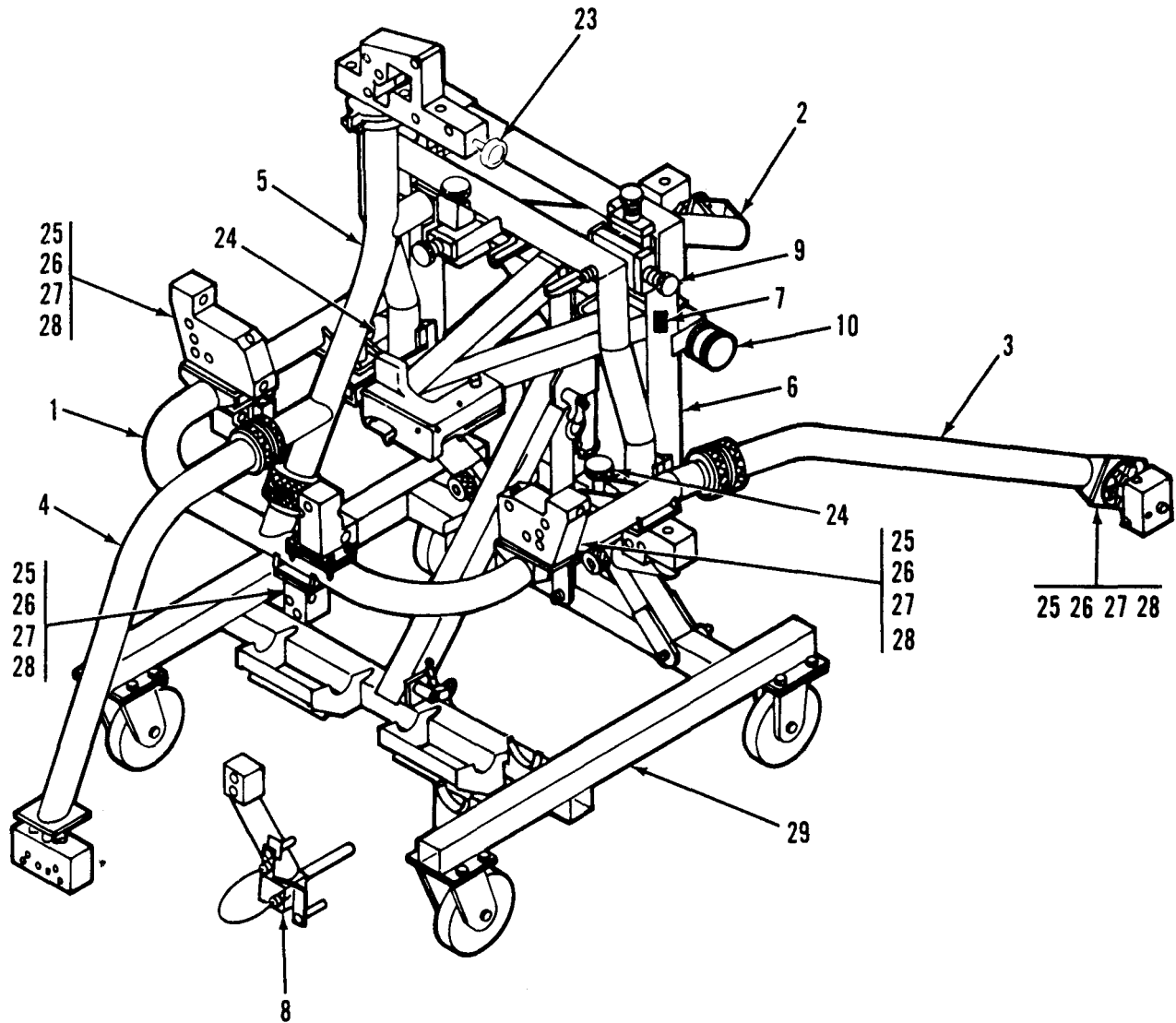




209071-465  
ARR82-0001  
T102300B

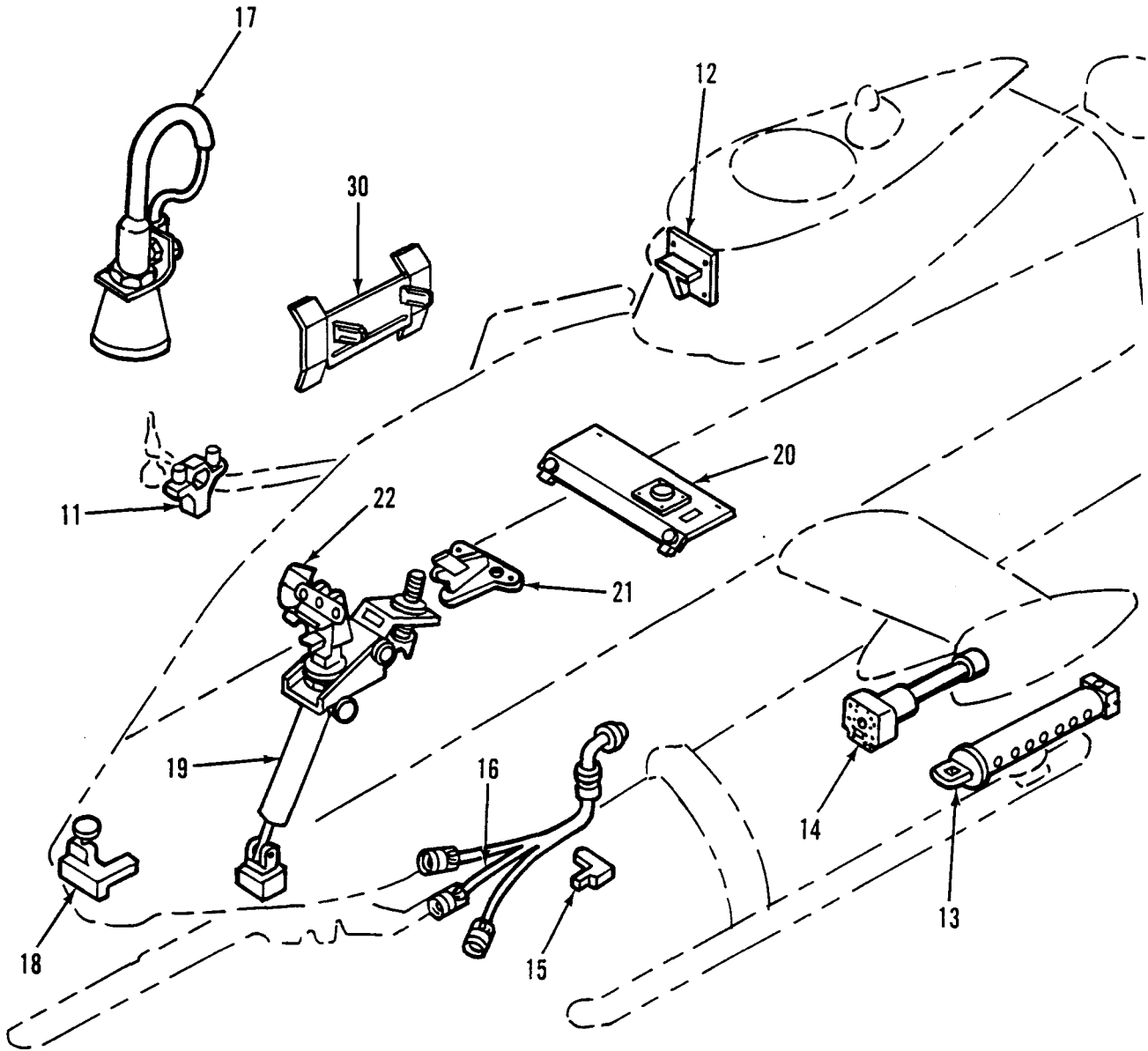
Figure C-1. Boresight Assembly, Ground Support Equipment

| (1)<br>ILLUSTRATION<br>(a) (b)<br>FIG ITEM<br>NO. NO. |   | (2)<br>SMR<br>CODE | (3)<br>NATIONAL<br>STOCK<br>NUMBER | (4)<br>FSCM | (5)<br>PART<br>NUMBER | (6)<br>DESCRIPTION<br><br>USABLE ON CODE      | (7)<br>U/M | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|---|---|--------------------|------------------------------------|-------------|-----------------------|---|------------|---------------------------------|
|   |   |                    |                                    |             |                       | GROUP 9307 KIT,BORESIGHT ASSEMBLY T102300-107 |            |                                 |
| C-1   | 1 | PBFDD              | 4931-01-084-3751                   | 97499       | 209-071-400-119       | BORESIGHT ASSEMBLY                            | EA         | 1                               |
| C-1   | 2 | PBFFF              | 4931-01-096-4451                   | 97499       | 209-071-505-101       | CASE ASSEMBLY TRANS                           | EA         | 1                               |
| C-1   | 3 | PBFFF              | 4931-01-096-4452                   | 97499       | 209-071-505-103       | CASE ASSEMBLY TRANS                           | EA         | 1                               |
| C-1   | 4 | PBFFF              | 4931-01-096-4453                   | 97499       | 209-071-504-101       | CASE ASSEMBLY TRANS                           | EA         | 1                               |
| C-1   | 5 | PBFFF              | 4931-01-096-4454                   | 97499       | 209-071-517-101       | CASE ASSEMBLY TRANS                           | EA         | 1                               |
| C-1   | 6 | PBFFF              | 4931-01-096-4455                   | 97499       | 209-071-503-109       | CASE ASSEMBLY TRANS                           | EA         | 1                               |
| C-1   | 7 | PBFFF              | 4931-01-096-4456                   | 97499       | 209-071-503-107       | CASE ASSEMBLY TRANS                           | EA         | 1                               |
| C-1   | 8 | PBFFF              | 4931-01-096-4457                   | 97499       | 209-071-506-101       | CASE ASSEMBLY TRANS                           | EA         | 1                               |



ARR82-0002

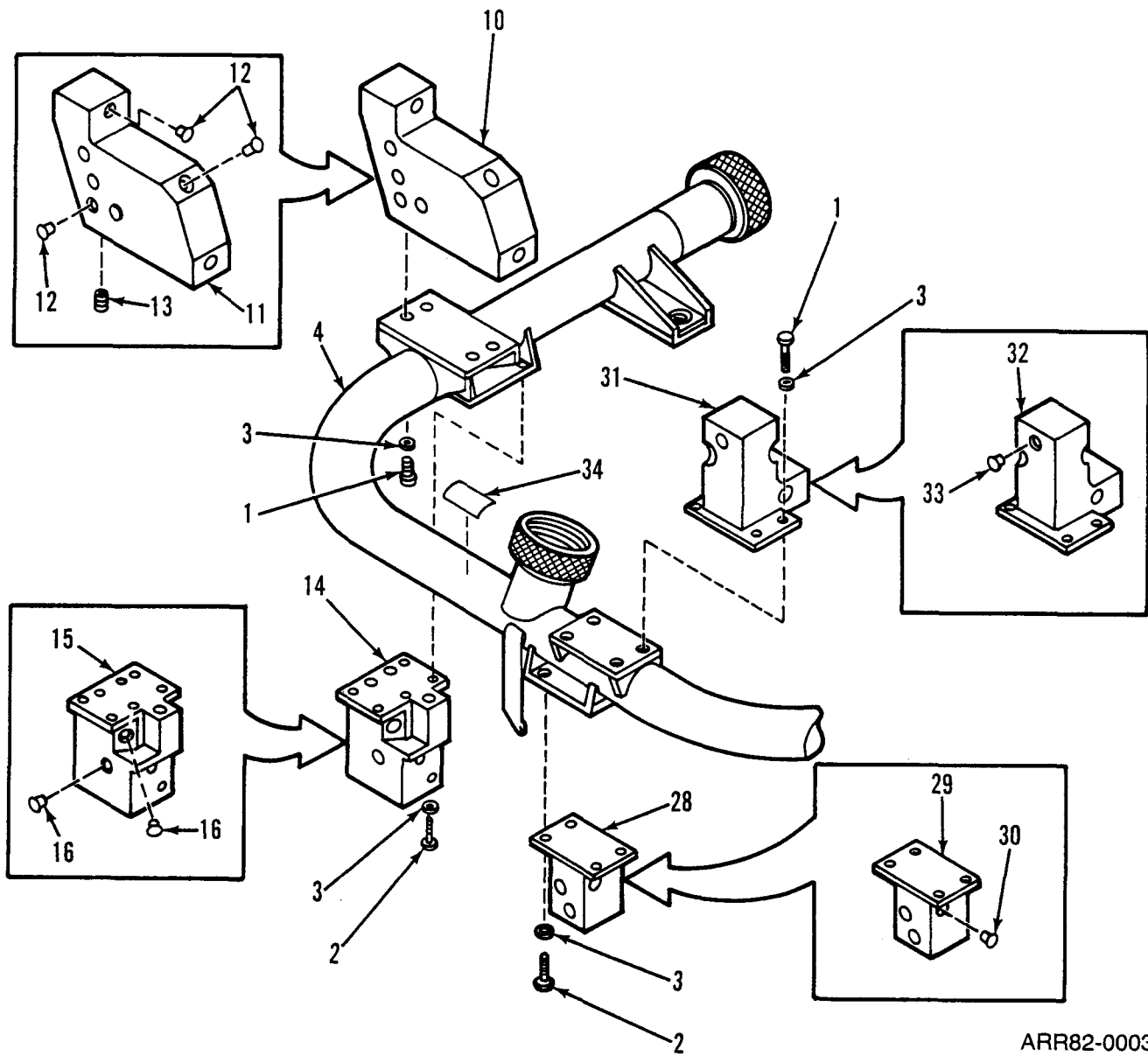
Figure C-2. Foresight Assembly, Group 9307A (Sheet 1 of 2)



ARR82-0048

Figure C-2. Boresight Assembly, Group 9307A (Sheet 2 of 2)

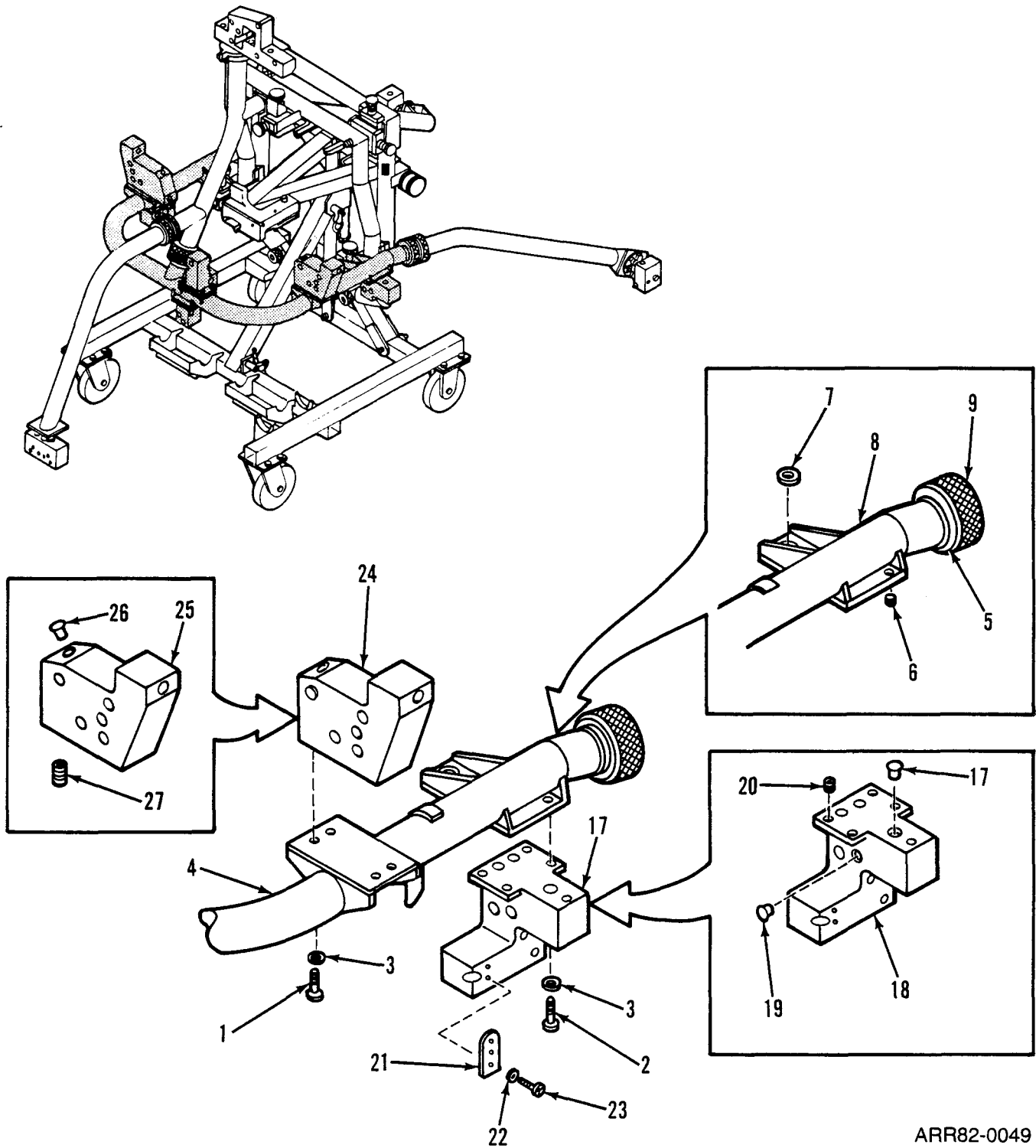
| (1)<br>ILLUSTRATION<br>(a) (b)<br>FIG ITEM<br>NO. NO. |    | (2)<br>SMR<br>CODE | (3)<br>NATIONAL<br>STOCK<br>NUMBER | TM9-4931-583-30&P<br>(4) (5)<br>FSCM PART<br>NUMBER |                 | (6)<br>DESCRIPTION<br>USABLE ON CODE | (7)<br>U/M | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|---|----|--------------------|------------------------------------|---|-----------------|--------------------------------------|------------|---------------------------------|
|   |    |                    |                                    |   |                 | GROUP 9307A BORESIGHT ASSEMBLY       |            |                                 |
|   |    |                    |                                    |   |                 | 209-071-400-101                      |            |                                 |
| C-2   | 1  | PAFDD              | 4931-01-084-3738                   | 97499   | 209-071-400-103 | FRAME ASSEMBLY                       | EA         | 1                               |
| C-2   | 2  | PAFDD              | 4931-01-084-3739                   | 97499   | 209-071-400-105 | FRAME ASSEMBLY, RIGHT HAND           | EA         | 1                               |
| C-2   | 3  | PAFDD              | 4931-01-084-3740                   | 97499   | 209-071-400-107 | FRAME ASSEMBLY                       | EA         | 1                               |
| C-2   | 4  | PAFDD              | 4931-01-084-3741                   | 97499   | 209-071-400-109 | FRAME ASSEMBLY                       | EA         | 1                               |
| C-2   | 5  | PAFDD              | 4931-01-090-5813                   | 97499   | 209-071-400-111 | FRAME ASSEMBLY                       | EA         | 1                               |
| C-2   | 6  | XADZZ              |                                    | 97499   | 209-071-400-113 | FRAME ASSEMBLY                       | EA         | 1                               |
| C-2   | 7  | PADZZ              | 7690-01-084-3884                   | 97499   | 100-089-2M      | MARKER, IDENTIFICATION               | EA         | 1                               |
| C-2   | 8  | PAFDD              | 4931-01-084-3773                   | 97499   | 209-071-481-101 | ALIGNMENT ASSEMBLY,GUN               | EA         | 1                               |
| C-2   | 9  | PAFFF              | 4931-01-084-3731                   | 97499   | 209-071-402-103 | FRAME ASSEMBLY                       | EA         | 1                               |
| C-2   | 10 | PAFDD              | 5355-01-084-3849                   | 97499   | 209-071-432-101 | HANDLE ASSEMBLY                      | EA         | 2                               |
| C-2   | 11 | PAFDD              | 4931-01-084-3791                   | 97499   | 209-071-434-101 | ALIGNMENT DEVICE                     | EA         | 1                               |
| C-2   | 12 | PAFDD              | 4931-01-084-3828                   | 97499   | 209-071-408-101 | ALIGNMENT DEVICE                     | EA         | 1                               |
| C-2   | 13 | PAFDD              | 4931-01-084-3780                   | 97499   | 209-071-447-101 | ALIGNMENT ASSEMBLY                   | EA         | 1                               |
| C-2   | 14 | PAFDD              | 4931-01-138-7380                   | 97499   | 209-071-439-105 | ALIGNMENT DEVICE,AS                  | EA         | 1                               |
| C-2   | 15 | PAFZZ              | 5220-01-084-3779                   | 97499   | 209-071-442-101 | GAGE,BORESIGHT                       | EA         | 1                               |
| C-2   | 16 | PAFDD              | 4931-01-084-3775                   | 97499   | 209-175-441-103 | CABLE ASSEMBLY                       | EA         | 1                               |
| C-2   | 17 | PAFDD              | 4931-01-084-3778                   | 97499   | 209-071-455-101 | CABLE ASSEMBLY,UNIT                  | EA         | 3                               |
| C-2   | 18 | PAFDD              | 4931-01-084-3754                   | 97499   | 209-071-474-101 | ALIGNMENT DEVICE AS ASSEMBLY         | EA         | 1                               |
| C-2   | 19 | PAFDD              | 4931-01-084-3784                   | 97499   | 209-071-414-101 | PEDESTAL ASSEMBLY                    | EA         | 1                               |
| C-2   | 20 | PAFDD              | 4931-01-084-3830                   | 97499   | 209-071-409-101 | SHELF ASSEMBLY, GUNNERS              | EA         | 1                               |
| C-2   | 21 | PAFDD              | 4931-01-084-3814                   | 97499   | 209-071-401-101 | ALIGNMENT DEVICE                     | EA         | 1                               |
| C-2   | 22 | PAFDD              | 4931-01-084-3756                   | 97499   | 209-071-471-101 | SHELF ASSEMBLY, PILOT                | EA         | 1                               |
| C-2   | 23 | PAFDD              | 4931-01-084-3759                   | 97499   | 209-071-466-101 | MIRROR ASSEMBLY                      | EA         | 3                               |
| C-2   | 24 | PAFZZ              | 5355-01-084-3853                   | 97499   | 209-071-433-101 | KNOB                                 | EA         | 2                               |
| C-2   | 25 | PADZZ              | 5365-01-085-1540                   | 97499   | 209-071-502-101 | SHIM                                 | EA         | V                               |
| C-2   | 26 | PADZZ              | 5365-01-084-3874                   | 97499   | 209-071-502-103 | SHIM                                 | EA         | V                               |
| C-2   | 27 | PADZZ              | 5365-01-084-3875                   | 97499   | 209-071-502-105 | SHIM                                 | EA         | V                               |
| C-2   | 28 | PADZZ              | 5365-01-084-3876                   | 97499   | 209-071-502-107 | SHIM                                 | EA         | V                               |
| C-2   | 29 | PAFDD              | 4931-01-084-3765                   | 97499   | 209-071-451-101 | STAND ASSEMBLY                       | EA         | 1                               |
| C-2   | 30 | PAFZZ              | 4920-00-595-5311                   | 97499   | 209-071-275-1   | FIXTURE ASSEMBLY, ALIGNMENT          | EA         | 1                               |



ARR82-0003

Figure C-3. Frame Assembly, Main, Group 9307A01 thru Group 9307A0107 (Sheet 1 of 2)





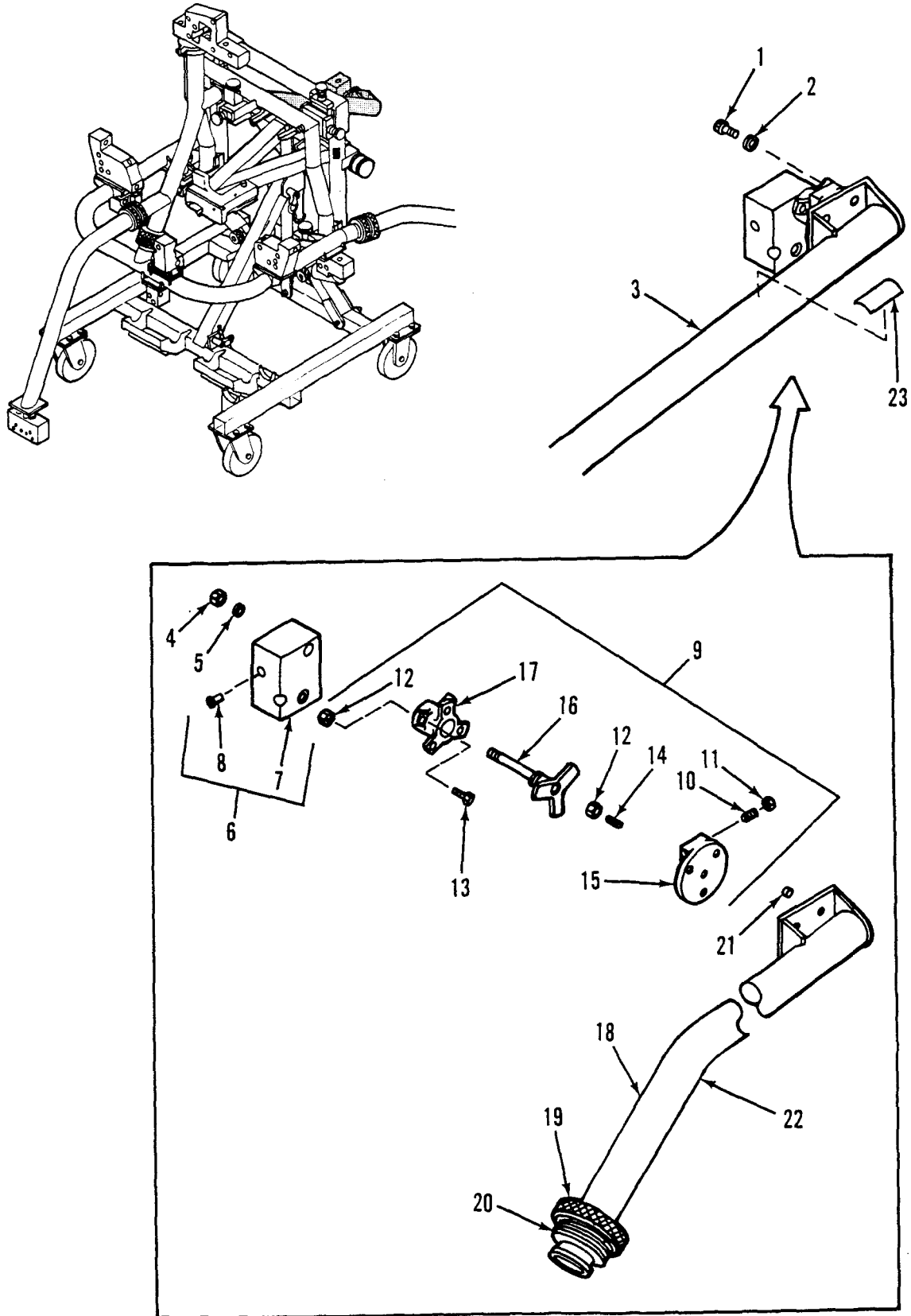
ARR82-0049

Figure C-3. Frame Assembly, Main, Group 9307A01 thru Group 9307A0107 (Sheet 2 of 2)



| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (2)<br>(b)<br>ITEM<br>NO. | (3)<br>SMR<br>CODE | (4)<br>NATIONAL<br>STOCK<br>NUMBER | (5)<br>FSCM | (6)<br>PART<br>NUMBER | TM9-4931-583-30&P<br>(6)<br>DESCRIPTION                                 | (7)<br>USABLE ON CODE U/M | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|---------------------------|--------------------|------------------------------------|-------------|-----------------------|---|---------------------------|---------------------------------|
|  |                           |                    |                                    |             |                       | GROUP 9307A01 FRAME ASSEMBLY,MAIN                                       |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-400-103   |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0101 FRAME ASSEMBLY,BLOCK                                    |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-473-101   |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0102 BLOCK ASSEMBLY  |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-480-101   |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0103 BLOCK ASSEMBLY,RIGHT HAND                               |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-440-101   |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0104 BLOCK ASSEMBLY  |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-441-101   |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0105 BLOCK ASSEMBLY,LEFT HAND                                |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-479-101   |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0106 BLOCK ASSEMBLY,TELESCOPIC<br>SIGHT UNIT 209-071-422-101 |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0107 BLOCK ASSEMBLY ALIGNMENT                                |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-495-101   |                           |                                 |
| C-3                                      | 1                         | PADZZ              | 5306-00-754-3048                   | 96906       | MS20073-04-06         | BOLT,MACHINE  | EA                        | 12                              |
| C-3                                      | 2                         | PADZZ              | 5306-00-620-8294                   | 96906       | MS20073-04-05         | BOLT,MACHINE  | EA                        | 12                              |
| C-3                                      | 3                         | PADZZ              | 5310-00-187-2354                   | 88044       | AN960PD416            | WASHER,FLAT   | EA                        | 24                              |
| C-3                                      | 4                         | PADDD              | 4931-01-084-3748                   | 97499       | 209-071-473-101       | FRAME ASSEMBLY, BLOCK   | EA                        | 1                               |
| C-3                                      | 5                         | PADZZ              | 3120-01-084-3863                   | 97499       | 209-071-487-101       | .BUSHING,SLEEVE   | EA                        | 3                               |
| C-3                                      | 6                         | PADZZ              | 5340-00-286-6600                   | 96906       | MS124656              | .INSERT,SCREW THREAD  | EA                        | 16                              |
| C-3                                      | 7                         | PADZZ              | 3120-01-027-4729                   | 96906       | MS14104-8             | .BEARING,PLAIN, SELF-ALIGNING   | EA                        | 2                               |
| C-3                                      | 8                         | XADZZ              |                                    | 97499       | 209-071-473-103       | .SUPPORT ASSEMBLY, FRAME  | EA                        | 1                               |
| C-3                                      | 9                         | PADZZ              | 5310-01-084-3868                   | 97499       | 209-071-486-101       | .NUT,PLAIN,KNURLED  | EA                        | 3                               |
| C-3                                      | 10                        | PADDD              | 4931-01-084-3726                   | 97499       | 209-071-480-101       | BLOCK ASSEMBLY  | EA                        | 1                               |
| C-3                                      | 11                        | XADZZ              |                                    | 97499       | 209-071-480-103       | .ALIGNMENT BLOCK  | EA                        | 1                               |
| C-3                                      | 12                        | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | .BUSHING,SLEEVE   | EA                        | 7                               |
| C-3                                      | 13                        | PADZZ              | 5340-00-290-4497                   | 96906       | MS124736              | .INSERT,SCREW THREAD  | EA                        | 4                               |
| C-3                                      | 14                        | PADDD              | 4931-01-084-3744                   | 97499       | 209-071-440-101       | BLOCK ASSEMBLY, RIGHT HAND  | EA                        | 1                               |
| C-3                                      | 15                        | XADZZ              |                                    | 97499       | 209-071-440-103       | .ALIGNMENT BLOCK  | EA                        | 1                               |
| C-3                                      | 16                        | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | .BUSHING,SLEEVE   | EA                        | 6                               |
| C-3                                      | 17                        | PADDD              | 4931-01-084-3746                   | 97499       | 209-071-441-101       | .BLOCK ASSEMBLY   | EA                        | 1                               |
| C-3                                      | 18                        | XADZZ              |                                    | 97499       | 209-071-441-103       | .ALIGNMENT BLOCK  | EA                        | 1                               |
| C-3                                      | 19                        | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | .BUSHING,SLEEVE   | EA                        | 6                               |
| C-3                                      | 20                        | PADZZ              | 5340-00-597-3302                   | 96906       | MS124695              | .INSERT,SCREW THREAD  | EA                        | 2                               |
| C-3                                      | 21                        | PAFZZ              | 6920-01-135-2129                   | 97499       | 209-071-508-101       | TARGET,BORESIGHTING   | EA                        | 1                               |
| C-3                                      | 22                        | PAFZZ              | 5305-00-925-9678                   | 96906       | MS27039C1-04          | SCREW,MACHINE   | EA                        | 2                               |
| C-3                                      | 23                        | PAFZZ              | 5310-00-167-0753                   | 88044       | AN960PD10L            | WASHER,FLAT   | EA                        | 2                               |
| C-3                                      | 24                        | PADDD              | 4931-01-084-3725                   | 97499       | 209-071-479-101       | BLOCK ASSEMBLY, LEFT HAND   | EA                        | 1                               |

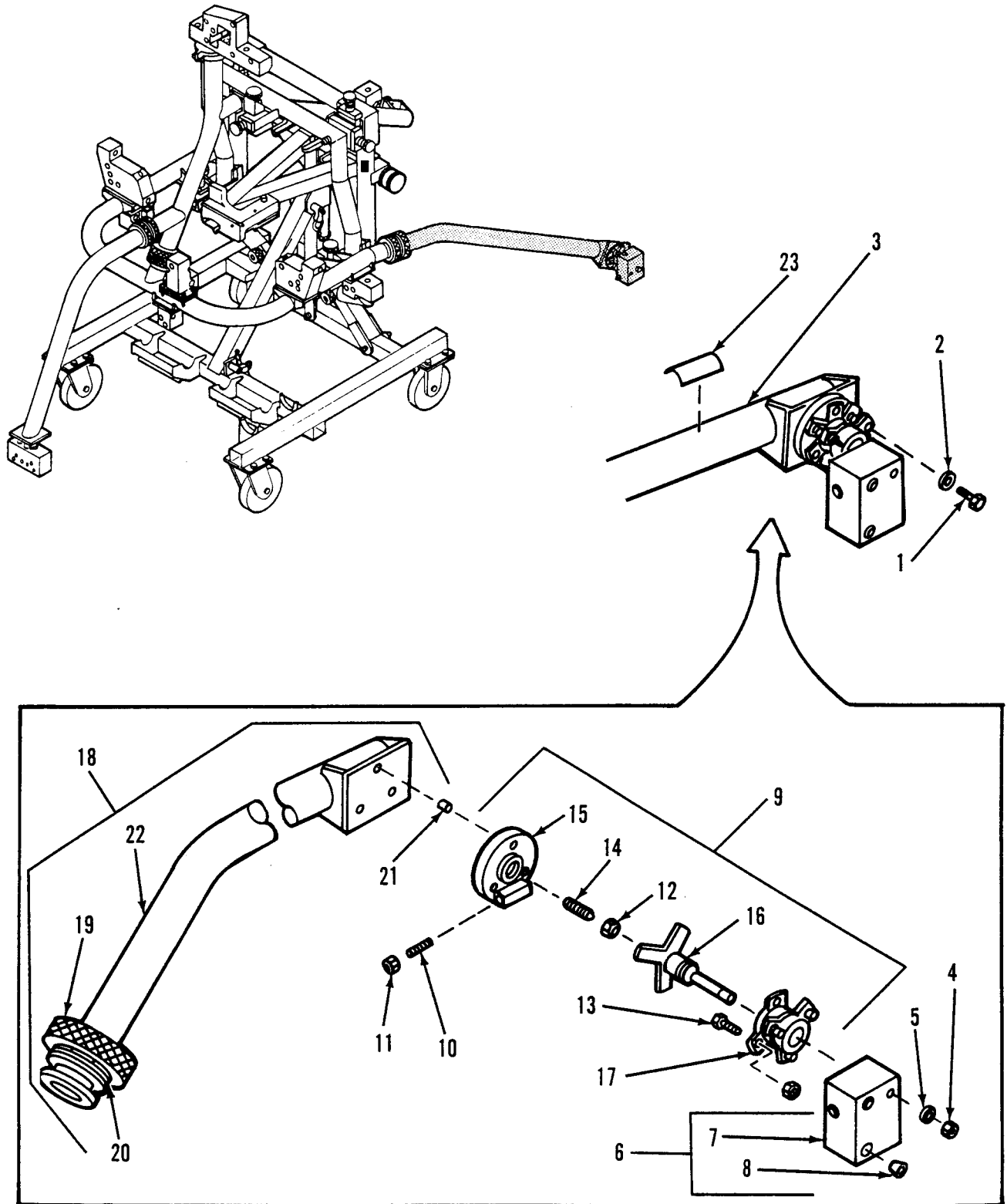
| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (b)<br>ITEM<br>NO. | (2)<br>SMR<br>CODE | (3)<br>NATIONAL<br>STOCK<br>NUMBER | (4)<br>FSCM | (5)<br>PART<br>NUMBER | TM9-4931-583-30&P<br>(6)<br>DESCRIPTION | (7)<br>USABLE ON CODE U/M | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|--------------------|--------------------|------------------------------------|-------------|-----------------------|---|---------------------------|---------------------------------|
| C-3                                      | 25                 | XADZZ              |                                    | 97499       | 209-071-479-103       | .ALIGNMENT BLOCK                        | EA                        | 1                               |
| C-3                                      | 26                 | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | .BUSHING, SLEEVE                        | EA                        | 7                               |
| C-3                                      | 27                 | PADZZ              | 5340-00-290-4497                   | 96906       | MS124736              | .INSERT, SCREW THREAD                   | EA                        | 4                               |
| C-3                                      | 28                 | PADDD              | 4931-01-084-3742                   | 97499       | 209-071-422-101       | BLOCK ASSEMBLY TELESCOPIC SIGHT UNIT    | EA                        | 1                               |
| C-3                                      | 29                 | XADZZ              |                                    | 97499       | 209-071-422-103       | .ALIGNMENT BLOCK                        | EA                        | 1                               |
| C-3                                      | 30                 | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | .BUSHING, SLEEVE                        | EA                        | 3                               |
| C-3                                      | 31                 | PADDD              | 4931-01-084-3728                   | 97499       | 209-071-495-101       | BLOCK ASSEMBLY ALIGNMENT                | EA                        | 1                               |
| C-3                                      | 32                 | XADZZ              |                                    | 97499       | 209-071-495-103       | .ALIGNMENT BLOCK                        | EA                        | 1                               |
| C-3                                      | 33                 | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | .BUSHING, SLEEVE                        | EA                        | 3                               |
| C-3                                      | 34                 | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                  | EA                        | 1                               |



ARR82-0004

Figure C-4. Frame Assembly, Right Hand, Group 9307A02 thru Group 9307A020103

| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (2)<br>(b)<br>ITEM<br>NO. | (3)<br>SMR<br>CODE | (4)<br>NATIONAL<br>STOCK<br>NUMBER | (5)<br>FSCM | (6)<br>PART<br>NUMBER | TM9-4931-583-30&P<br>(6)<br>DESCRIPTION  | (7)<br>USABLE ON CODE U/M | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|---------------------------|--------------------|------------------------------------|-------------|-----------------------|--|---------------------------|---------------------------------|
|  |                           |                    |                                    |             |                       | GROUP 9307A02 FRAME ASSEMBLY, RIGHT HAND |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-400-105                          |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0201 ALIGNMENT ASSEMBLY       |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-459-101                          |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A020101 BLOCK ASSEMBLY, RIGHT  |                           |                                 |
|  |                           |                    |                                    |             |                       | HAND 209-071-461-101                     |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A020102 ALIGNMENT ASSEMBLY     |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-489-101                          |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A020103 FRAME ASSEMBLY, RIGHT  |                           |                                 |
|  |                           |                    |                                    |             |                       | HAND 209-071-470-101                     |                           |                                 |
| C-4                                      | 1                         | AFZZ               | 5306-00-023-7195                   | 96906       | MS20073-04-07         | BOLT, MACHINE                            | EA                        | 3                               |
| C-4                                      | 2                         | PAFZZ              | 5310-00-187-2354                   | 88044       | AN960PD416            | WASHER, FLAT                             | EA                        | 3                               |
| C-4                                      | 3                         | PAFFF              | 4931-01-084-3730                   | 97499       | 209-071-459-101       | ALIGNMENT ASSEMBLY                       | EA                        | 1                               |
| C-4                                      | 4                         | PAFZZ              | 5310-00-579-0848                   | 88044       | AN316-6               | .NUT, PLAIN, HEXAGON                     | EA                        | 1                               |
| C-4                                      | 5                         | PAFZZ              | 5310-00-187-2400                   | 88044       | AN960PD616            | .WASHER, FLAT                            | EA                        | 1                               |
| C-4                                      | 6                         | PAFDD              | 4931-01-084-3798                   | 97499       | 209-071-461-101       | .BLOCK ASSEMBLY, RIGHT HAND              | EA                        | 1                               |
| C-4                                      | 7                         | XADZZ              |                                    | 97499       | 209-071-461-103       | ..BLOCK ASSEMBLY                         | EA                        | 1                               |
| C-4                                      | 8                         | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | ..BUSHING, SLEEVE                        | EA                        | 4                               |
| C-4                                      | 9                         | PAFFF              | 4931-01-090-5815                   | 97499       | 209-071-489-101       | .ALIGNMENT ASSEMBLY                      | EA                        | 1                               |
| C-4                                      | 10                        | PAFZZ              | 5305-00-576-6596                   | 88044       | AN565F1032H12         | ..SETSCREW                               | EA                        | 2                               |
| C-4                                      | 11                        | PAFZZ              | 5310-01-062-1061                   | 88044       | AN315-3               | ..NUT, PLAIN, HEXAGON                    | EA                        | 2                               |
| C-4                                      | 12                        | PAFZZ              | 5310-01-107-3572                   | 88044       | AN316-4               | ..NUT, PLAIN, HEXAGON                    | EA                        | 4                               |
| C-4                                      | 13                        | PAFZZ              | 5306-00-721-3534                   | 80205       | NAS428KH4-7           | ..BOLT, MACHINE                          | EA                        | 3                               |
| C-4                                      | 14                        | PAFZZ              | 5305-01-006-8979                   | 81352       | AN565F428H9           | ..SETSCREW                               | EA                        | 1                               |
| C-4                                      | 15                        | PAFZZ              | 4931-01-090-5816                   | 97499       | 209-071-490-101       | ..PLATE ASSEMBLY, BASE                   | EA                        | 1                               |
| C-4                                      | 16                        | PAFZZ              | 4931-01-084-3797                   | 97499       | 209-071-491-101       | ..COLUMN ASSEMBLY                        | EA                        | 1                               |
| C-4                                      | 17                        | PAFZZ              | 3040-01-084-3866                   | 97499       | 209-071-492-101       | ..COLLAR, SHAFT                          | EA                        | 1                               |
| C-4                                      | 18                        | PAFDD              | 4931-01-084-3800                   | 97499       | 209-071-470-101       | .FRAME ASSEMBLY, RIGHT HAND              | EA                        | 1                               |
| C-4                                      | 19                        | PADZZ              | 5310-01-084-3869                   | 97499       | 209-071-485-101       | ..NUT, PLAIN, KNURLED                    | EA                        | 1                               |
| C-4                                      | 20                        | PADZZ              | 3120-01-084-3864                   | 97499       | 209-071-488-101       | ..BUSHING, SLEEVE                        | EA                        | 1                               |
| C-4                                      | 21                        | PADZZ              | 5340-00-286-6600                   | 96906       | MS124656              | ..INSERT, SCREW THREAD                   | EA                        | 3                               |
| C-4                                      | 22                        | XADZZ              |                                    | 97499       | 209-071-470-103       | ..SUPPORT ASSEMBLY                       | EA                        | 1                               |
| C-4                                      | 23                        | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                   | EA                        | 1                               |



ARR82-0005

Figure C-5. Frame Assembly, Left Hand, Group 9307A03 thru Group 9307A030103

| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (2)<br>ITEM<br>NO. | (3)<br>SMR<br>CODE | (4)<br>NATIONAL<br>STOCK<br>NUMBER | (5)<br>FSCM | (6)<br>PART<br>NUMBER | TM9-4931-583-30&P<br>DESCRIPTION            | (7)<br>USABLE ON CODE U/M | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|--------------------|--------------------|------------------------------------|-------------|-----------------------|---|---------------------------|---------------------------------|
|  |                    |                    |                                    |             |                       | GROUP 9307A03 FRAME ASSEMBLY, LEFT HAND     |                           |                                 |
|  |                    |                    |                                    |             |                       | 209-071-400-107                             |                           |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A0301 ALIGNMENT ASSEMBLY, LEFT    |                           |                                 |
|  |                    |                    |                                    |             |                       | HAND 209-071-458-101                        |                           |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A030101 BLOCK ASSEMBLY, LEFT HAND |                           |                                 |
|  |                    |                    |                                    |             |                       | 209-071-462-101                             |                           |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A030102 ALIGNMENT ASSEMBLY        |                           |                                 |
|  |                    |                    |                                    |             |                       | 209-071-489-101                             |                           |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A030103 FRAME ASSEMBLY, LEFT HAND |                           |                                 |
|  |                    |                    |                                    |             |                       | 209-071-469-101                             |                           |                                 |
| C-5                                      | 1                  | PAFZZ              | 5306-00-023-7195                   | 96906       | MS20073-04-07         | BOLT, MACHINE                               | EA                        | 3                               |
| C-5                                      | 2                  | PAFZZ              | 5310-00-187-2354                   | 88044       | AN960PD416            | WASHER, FLAT                                | EA                        | 3                               |
| C-5                                      | 3                  | PAFFF              | 4931-01-084-3734                   | 97499       | 209-071-458-101       | ALIGNMENT ASSEMBLY, LEFT HAND               | EA                        | 1                               |
| C-5                                      | 4                  | PAFZZ              | 5310-00-579-0848                   | 88044       | AN316-6               | .NUT, PLAIN, HEXAGON                        | EA                        | 1                               |
| C-5                                      | 5                  | PAFZZ              | 5310-00-187-2400                   | 88044       | AN960PD616            | .WASHER, FLAT                               | EA                        | 1                               |
| C-5                                      | 6                  | PAFDD              | 4931-01-084-3810                   | 97499       | 209-071-462-101       | .BLOCK ASSEMBLY, LEFT HAND                  | EA                        | 1                               |
| C-5                                      | 7                  | XADZZ              |                                    | 97499       | 209-071-462-103       | ..BLOCK ALIGNMENT                           | EA                        | 1                               |
| C-5                                      | 8                  | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | ..BUSHING, SLEEVE                           | EA                        | 4                               |
| C-5                                      | 9                  | PAFFF              | 4931-01-090-5815                   | 97499       | 209-071-489-101       | .ALIGNMENT ASSEMBLY                         | EA                        | 1                               |
| C-5                                      | 10                 | PAFZZ              | 5305-00-576-6596                   | 88044       | AN565F1032H12         | ..SETSCREW                                  | EA                        | 2                               |
| C-5                                      | 11                 | PAFZZ              | 5310-01-062-1061                   | 88044       | AN315-3               | ..NUT, PLAIN, HEXAGON                       | EA                        | 2                               |
| C-5                                      | 12                 | PAFZZ              | 5310-01-107-3572                   | 88044       | AN316-4               | ..NUT, PLAIN, HEXAGON                       | EA                        | 4                               |
| C-5                                      | 13                 | PAFZZ              | 5306-00-721-3534                   | 80205       | NAS428KH4-7           | ..BOLT, MACHINE                             | EA                        | 3                               |
| C-5                                      | 14                 | PAFZZ              | 5305-01-006-8979                   | 81352       | AN565F428H9           | ..SETSCREW                                  | EA                        | 1                               |
| C-5                                      | 15                 | PAFZZ              | 4931-01-090-5816                   | 97499       | 209-071-490-101       | ..PLATE ASSEMBLY, BASE ASSEMBLY, BASE       | EA                        | 1                               |
| C-5                                      | 16                 | PAFZZ              | 4931-01-084-3797                   | 97499       | 209-071-491-101       | ..COLUMN ASSEMBLY                           | EA                        | 1                               |
| C-5                                      | 17                 | PAFZZ              | 3040-01-084-3866                   | 97499       | 209-071-492-101       | ..COLLAR, SHAFT                             | EA                        | 1                               |
| C-5                                      | 18                 | PAFDD              | 4931-01-084-3802                   | 97499       | 209-071-469-101       | .FRAME ASSEMBLY, LEFT HAND                  | EA                        | 1                               |
| C-5                                      | 19                 | PADZZ              | 5310-01-084-3869                   | 97499       | 209-071-485-101       | ..NUT, PLAIN, KNURLED                       | EA                        | 1                               |
| C-5                                      | 20                 | PADZZ              | 3120-01-084-3863                   | 97499       | 209-071-487-101       | ..BUSHING, SLEEVE                           | EA                        | 1                               |
| C-5                                      | 21                 | PADZZ              | 5340-00-286-6600                   | 96906       | MS124656              | ..INSERT, SCREW THREAD                      | EA                        | 3                               |
| C-5                                      | 22                 | XADZZ              |                                    | 97499       | 209-071-469-103       | ..SUPPORT ASSEMBLY                          | EA                        | 1                               |
| C-5                                      | 23                 | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                      | EA                        | 1                               |

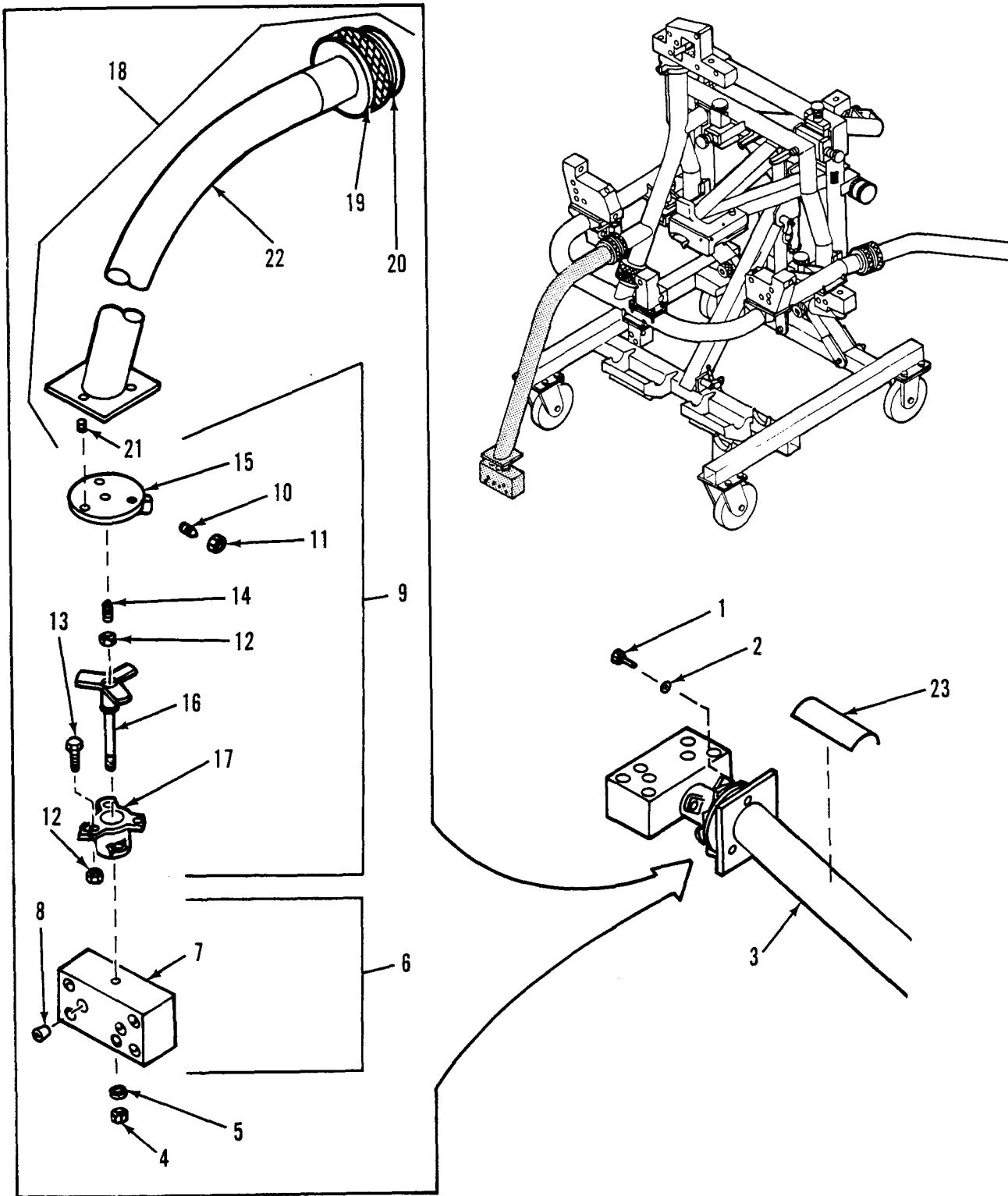
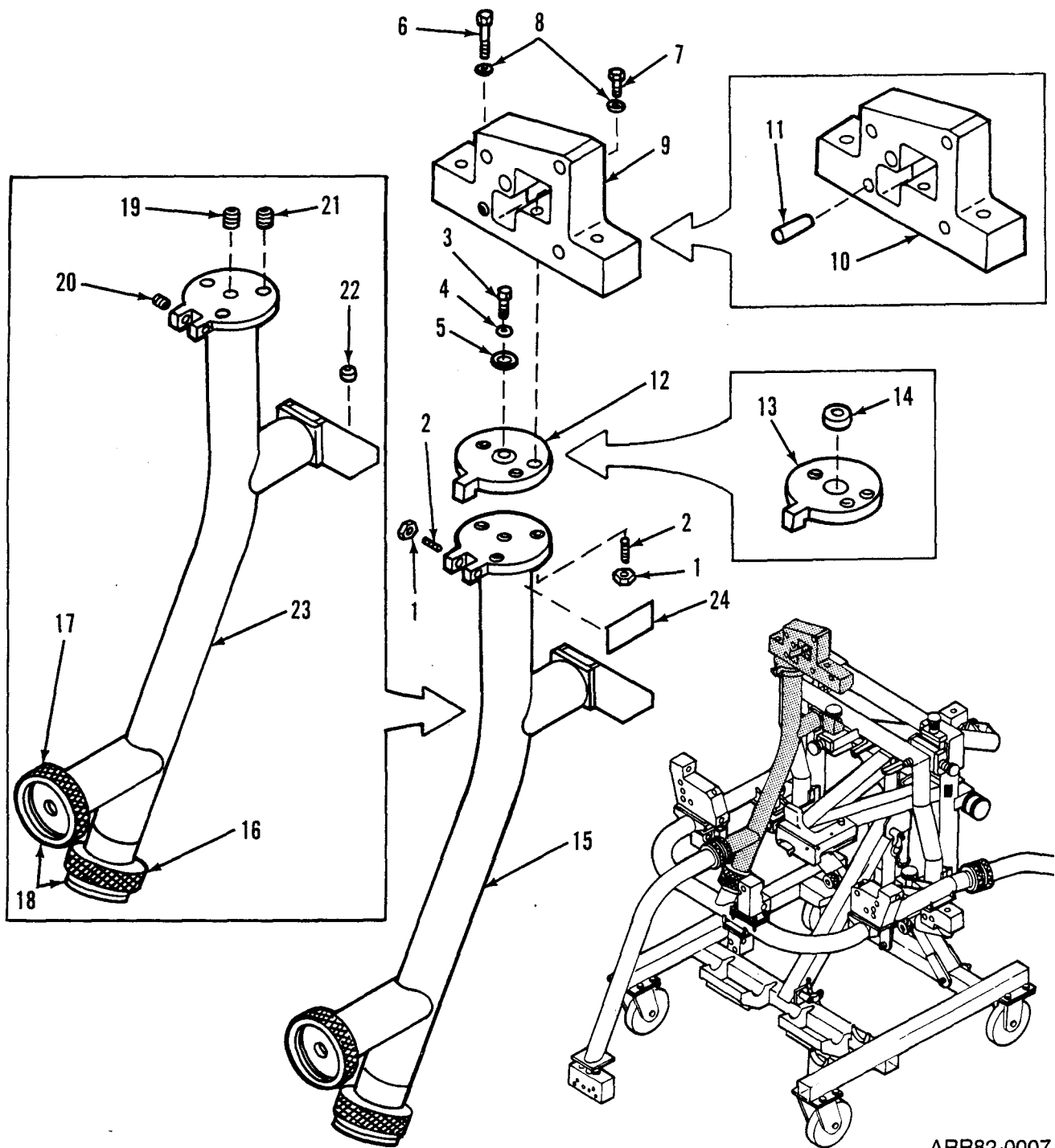


Figure C-6. Frame Assembly, Forward, Group 9307A04 thru Group 9307A040103

ARR82-0006

| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (2)<br>ITEM<br>NO. | (3)<br>SMR<br>CODE | (4)<br>NATIONAL<br>STOCK<br>NUMBER | (5)<br>FSCM | (6)<br>PART<br>NUMBER | TM9-4931-583-30&P<br>DESCRIPTION            | (7)<br>USABLE ON CODE U/M | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|--------------------|--------------------|------------------------------------|-------------|-----------------------|---|---------------------------|---------------------------------|
|  |                    |                    |                                    |             |                       | GROUP 9307A04 FRAME ASSEMBLY, FORWARD       |                           |                                 |
|  |                    |                    |                                    |             |                       | 209-071-400-109                             |                           |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A0401 ALIGNMENT ASSEMBLY, FORWARD |                           |                                 |
|  |                    |                    |                                    |             |                       | GUN 209-071-457-101                         |                           |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A040101 BLOCK ASSEMBLY            |                           |                                 |
|  |                    |                    |                                    |             |                       | 209-071-460-101                             |                           |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A040102 ALIGNMENT ASSEMBLY        |                           |                                 |
|  |                    |                    |                                    |             |                       | 209-071-489-103                             |                           |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A010103 FRAME ASSEMBLY, FORWARD   |                           |                                 |
|  |                    |                    |                                    |             |                       | GUN 209-071-465-101                         |                           |                                 |
| C-6                                      | 1                  | PAFZZ              | 5306-00-023-7195                   | 96906       | MS20073-04-07         | BOLT, MACHINE                               | EA                        | 3                               |
| C-6                                      | 2                  | PAFZZ              | 5310-00-187-2354                   | 88044       | AN960PD416            | WASHER, FLAT                                | EA                        | 3                               |
| C-6                                      | 3                  | PAFF               | 4931-01-084-3804                   | 97499       | 209-071-457-101       | ALIGNMENT ASSEMBLY, FORWARD GUN             | EA                        | 1                               |
| C-6                                      | 4                  | PAFZZ              | 5310-00-579-0848                   | 88044       | AN316-6               | .NUT, PLAIN, HEXAGON                        | EA                        | 1                               |
| C-6                                      | 5                  | PAFZZ              | 5310-00-187-2400                   | 88044       | AN960PD616            | .WASHER, FLAT                               | EA                        | 1                               |
| C-6                                      | 6                  | PAFDD              | 4931-01-084-3805                   | 97499       | 209-071-460-101       | .BLOCK ASSEMBLY                             | EA                        | 1                               |
| C-6                                      | 7                  | XADZZ              |                                    | 97499       | 209-071-460-103       | ..ALIGNMENT BLOCK                           | EA                        | 1                               |
| C-6                                      | 8                  | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | ..BUSHING, SLEEVE                           | EA                        | 7                               |
| C-6                                      | 9                  | PAFFF              | 4931-01-090-5814                   | 97499       | 209-071-489-103       | ..ALIGNMENT ASSEMBLY                        | EA                        | 1                               |
| C-6                                      | 10                 | PAFZZ              | 5305-00-576-6596                   | 88044       | AN565F1032H12         | ..SETSCREW                                  | EA                        | 2                               |
| C-6                                      | 11                 | PAFZZ              | 5310-01-062-1061                   | 88044       | AN315-3               | ..NUT, PLAIN, HEXAGON                       | EA                        | 2                               |
| C-6                                      | 12                 | PAFZZ              | 5310-01-107-3572                   | 88044       | AN316-4               | ..NUT, PLAIN, HEXAGON                       | EA                        | 4                               |
| C-6                                      | 13                 | PAFZZ              | 5306-00-721-3534                   | 80205       | NAS428KH4-7           | ..BOLT, MACHINE                             | EA                        | 3                               |
| C-6                                      | 14                 | PAFZZ              | 5305-01-006-8979                   | 81352       | AN565F428H9           | ..SETSCREW                                  | EA                        | 1                               |
| C-6                                      | 15                 | PAFZZ              | 4931-01-090-5816                   | 97499       | 209-071-490-101       | ..PLATE ASSEMBLY, BASE                      | EA                        | 1                               |
| C-6                                      | 16                 | PAFZZ              | 4931-01-084-3796                   | 97499       | 209-071-491-103       | ..COLUMN ASSEMBLY                           | EA                        | 1                               |
| C-6                                      | 17                 | PAFZZ              | 3040-01-084-3866                   | 97499       | 209-071-492-101       | ..COLLAR, SHAFT                             | EA                        | 1                               |
| C-6                                      | 18                 | PAFDD              | 4931-01-084-3807                   | 97499       | 209-071-465-101       | FRAME ASSEMBLY, FORWARD GUN                 | EA                        | 1                               |
| C-6                                      | 19                 | PADZZ              | 5310-01-084-3869                   | 97499       | 209-071-485-101       | ..NUT, PLAIN, KNURLED                       | EA                        | 1                               |
| C-6                                      | 20                 | PADZZ              | 3120-01-084-3863                   | 97499       | 209-071-487-101       | ..BUSHING, SLEEVE                           | EA                        | 1                               |
| C-6                                      | 21                 | PADZZ              | 5340-00-286-6600                   | 96906       | MS124656              | ..INSERT, SCREW THREAD                      | EA                        | 3                               |
| C-6                                      | 22                 | XADZZ              |                                    | 97499       | 209-071-465-103       | ..SUPPORT ASSEMBLY                          | EA                        | 1                               |
| C-6                                      | 23                 | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                      | EA                        | 1                               |

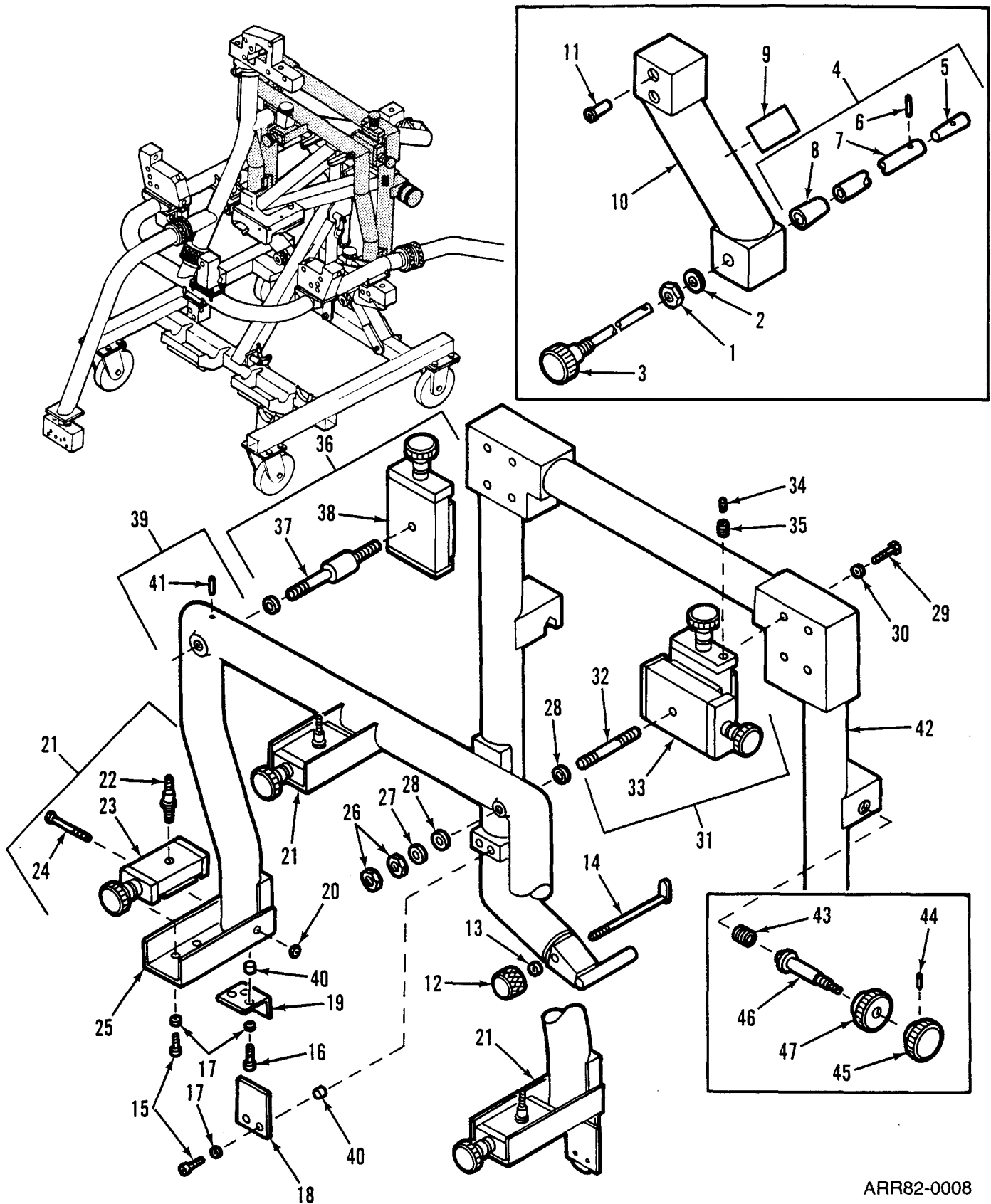




ARR82-0007

Figure C-7. Frame Assembly, Upper, Group 9307A05 thru Group 9307A0503

| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (2)<br>(b)<br>ITEM<br>NO. | (3)<br>SMR<br>CODE | (3)<br>NATIONAL<br>STOCK<br>NUMBER | (4)<br>FSCM | (5)<br>PART<br>NUMBER | TM9-4931-583-30&P<br>(6)<br>DESCRIPTION | (7)<br>USABLE ON CODE U/M | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|---------------------------|--------------------|------------------------------------|-------------|-----------------------|---|---------------------------|---------------------------------|
|  |                           |                    |                                    |             |                       | GROUP 9307A05 FRAME ASSEMBLY, UPPER     |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-400-111                         |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0501 BLOCK ASSEMBLY          |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-445-105                         |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0502 PLATE ASSEMBLY, UPPER   |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-453-101                         |                           |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0503 FRAME ASSEMBLY, UPPER   |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-498-101                         |                           |                                 |
| C-7                                      | 1                         | PAFZZ              | 5310-01-107-3572                   | 88044       | AN316-4               | NUT, PLAIN, HEXAGON                     | EA                        | 5                               |
| C-7                                      | 2                         | PAFZZ              | 5305-00-721-5899                   | 88044       | AN565F428H16          | SETSCREW                                | EA                        | 5                               |
| C-7                                      | 3                         | PAFZZ              | 5306-00-150-9991                   | 88044       | AN8-11                | BOLT, MACHINE                           | EA                        | 1                               |
| C-7                                      | 4                         | PAFZZ              | 5310-00-167-0/51                   | 88044       | AN960PD816            | WASHER, FLAT                            | EA                        | 1                               |
| C-7                                      | 5                         | PAFZZ              | 5310-01-084-3865                   | 97499       | 140-009F33T48         | WASHER, FLAT                            | EA                        | 1                               |
| C-7                                      | 6                         | PAFZZ              | 5306-00-807-6894                   | 96906       | MS200/3-04-11         | BOLT, MACHINE                           | EA                        | 2                               |
| C-7                                      | 7                         | PAFZZ              | 5306-00-151-0722                   | 96906       | MS20073-04-24         | BOLT, MACHINE                           | EA                        | 1                               |
| C-7                                      | 8                         | PAFZZ              | 5310-00-187-2354                   | 88044       | AN960PD416            | WASHER, FLAT                            | EA                        | 3                               |
| C-7                                      | 9                         | PAFDD              | 4931-01-096-4459                   | 97499       | 209-071-445-105       | BLOCK ASSEMBLY                          | EA                        | 1                               |
| C-7                                      | 10                        | XADZZ              |                                    | 97499       | 209-071-445-107       | .ALIGNMENT BLOCK                        | EA                        | 1                               |
| C-7                                      | 11                        | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | .BUSHING, SLEEVE                        | EA                        | 12                              |
| C-7                                      | 12                        | PAFDD              | 4931-01-084-3732                   | 97499       | 209-071-453-101       | PLATE ASSEMBLY, UPPER                   | EA                        | 1                               |
| C-7                                      | 13                        | XADZZ              |                                    | 97499       | 209-071-453-103       | .PLATE                                  | EA                        | 1                               |
| C-7                                      | 14                        | PADZZ              | 3120-01-027-4729                   | 96906       | MS14104-8             | .BEARING, PLAIN, SELF-ALIGNING          | EA                        | 1                               |
| C-7                                      | 15                        | PAFDD              | 4931-01-084-3813                   | 97499       | 209-071-498-101       | FRAME ASSEMBLY, UPPER                   | EA                        | 1                               |
| C-7                                      | 16                        | PADZZ              | 5310-01-084-3869                   | 97499       | 209-071-485-101       | .NUT, PLAIN, KNURLED                    | EA                        | 1                               |
| C-7                                      | 17                        | PADZZ              | 5310-01-084-3868                   | 97499       | 209-071-486-101       | .NUT, PLAIN, KNURLED                    | EA                        | 1                               |
| C-7                                      | 18                        | PADZZ              | 3120-01-084-3864                   | 97499       | 209-071-488-101       | .BUSHING, SLEEVE                        | EA                        | 2                               |
| C-7                                      | 19                        | PADZZ              | 5340-00-990-7158                   | 96906       | MS122165              | .INSERT, SCREW THREAD                   | EA                        | 1                               |
| C-7                                      | 20                        | PADZZ              | 5340-00-594-7230                   | 96906       | MS122161              | .INSERT, SCREW THREAD                   | EA                        | 2                               |
| C-7                                      | 21                        | PADZZ              | 5340-00-594-7230                   | 96906       | MS122161              | .INSERT, SCREW THREAD                   | EA                        | 3                               |
| C-7                                      | 22                        | PADZZ              | 3120-01-027-4729                   | 96906       | MS14104-8             | .BEARING, PLAIN, SELF-ALIGNING          | EA                        | 1                               |
| C-7                                      | 23                        | XADZZ              |                                    | 97499       | 209-071-498-103       | TUBE ASSEMBLY, METAL                    | EA                        | 1                               |
| C-7                                      | 24                        | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                  | EA                        | 1                               |

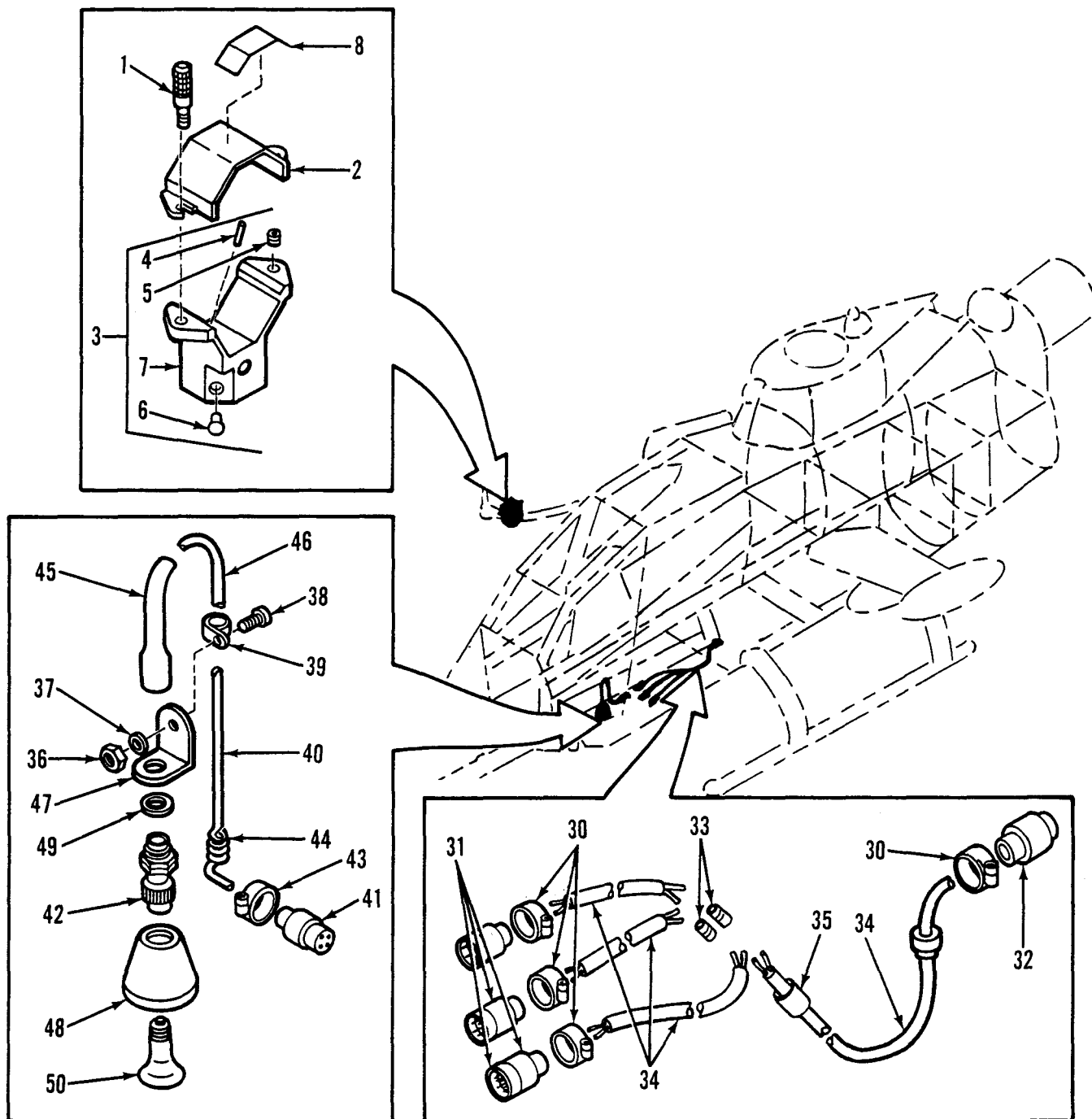


ARR82-0008

Figure C-8. Alignment Assembly, Gun, Group 9307A06 thru Handle Assembly, Group 9307A08

| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (2)<br>(b)<br>ITEM<br>NO. | (3)<br>SMR<br>CODE | (4)<br>NATIONAL<br>STOCK<br>NUMBER | (5)<br>FSCM | (6)<br>PART<br>NUMBER | TM9-4931-583-30&P<br>(6)<br>DESCRIPTION | (7)<br>USABLE ON CODE<br>U/M | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|---------------------------|--------------------|------------------------------------|-------------|-----------------------|---|------------------------------|---------------------------------|
|  |                           |                    |                                    |             |                       | GROUP 9307A06 ALIGNMENT ASSEMBLY, GUN   |                              |                                 |
|  |                           |                    |                                    |             |                       | 209-071-481-101                         |                              |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0601 SHANK ASSEMBLY          |                              |                                 |
|  |                           |                    |                                    |             |                       | 209-071-482-125                         |                              |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0602 HOUSING ASSEMBLY        |                              |                                 |
|  |                           |                    |                                    |             |                       | 209-071-482-101                         |                              |                                 |
| C-8                                      | 1                         | PAFZZ              | 5310-00-596-9529                   | 88044       | AN315C12R             | NUT, PLAIN, HEXAGON                     | EA                           | 1                               |
| C-8                                      | 2                         | PAFZZ              | 5310-00-167-0809                   | 88044       | AN960C1216            | WASHER, FLAT                            | EA                           | 1                               |
| C-8                                      | 3                         | PAFZZ              | 5355-01-117-9466                   | 97499       | 209-071-516-101       | KNOB                                    | EA                           | 1                               |
| C-8                                      | 4                         | PAFFF              | 4931-01-096-4467                   | 97499       | 209-071-482-125       | SHANK ASSEMBLY                          | EA                           | 1                               |
| C-8                                      | 5                         | PAFZZ              | 4931-01-133-7455                   | 97499       | 209-071-513-101       | .PLUG, GUN ALIGNMENT                    | EA                           | 1                               |
| C-8                                      | 6                         | PAFZZ              | 5315-00-806-7040                   | 96906       | MS16555-620           | .PIN, STRAIGHT, HEADLESS                | EA                           | 1                               |
| C-8                                      | 7                         | PADZZ              | 4931-01-114-3041                   | 97499       | 209-071-509-101       | .SHAFT, STRAIGHT                        | EA                           | 1                               |
| C-8                                      | 8                         | PAFZZ              | 5315-01-120-3398                   | 97499       | 209-071-405-101       | .PIN, SHOULDER, HEADLESS                | EA                           | 1                               |
| C-8                                      | 9                         | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                  | EA                           | 1                               |
| C-8                                      | 10                        | XADDD              |                                    | 97499       | 209-071-482-101       | HOUSING ASSEMBLY                        | EA                           | 1                               |
| C-8                                      | 11                        | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | .BUSHING, SLEEVE                        | EA                           | 2                               |
|  |                           |                    |                                    |             |                       | GROUP 9307A07 FRAME ASSEMBLY, MOUNTING  |                              |                                 |
|  |                           |                    |                                    |             |                       | ALIGNMENT 209-071-402-103               |                              |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0701 SLIDER ASSEMBLY         |                              |                                 |
|  |                           |                    |                                    |             |                       | 209-071-406-101                         |                              |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0702 SLIDER ASSEMBLY         |                              |                                 |
|  |                           |                    |                                    |             |                       | 209-071-126-101                         |                              |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0703 SLIDER ASSEMBLY         |                              |                                 |
|  |                           |                    |                                    |             |                       | 209-071-425-101                         |                              |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0704 FRAME ASSEMBLY          |                              |                                 |
|  |                           |                    |                                    |             |                       | 209-071-404-101                         |                              |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307A0705 FRAME FIXED             |                              |                                 |
|  |                           |                    |                                    |             |                       | 209-071-403-103                         |                              |                                 |
| C-8                                      | 12                        | PAFZZ              | 5355-01-084-3854                   | 97499       | 209-071-413-101       | KNOB                                    | EA                           | 2                               |
| C-8                                      | 13                        | PAFZZ              | 5310-00-183-4355                   | 88044       | AN960C616L            | WASHER, FLAT                            | EA                           | 2                               |
| C-8                                      | 14                        | PAFZZ              | 4931-01-084-3822                   | 97499       | 209-071-412-101       | CLAMP ASSEMBLY                          | EA                           | 2                               |
| C-8                                      | 15                        | PAFZZ              | 5305-00-477-4671                   | 80205       | NAS1351-3-6           | SCREW, CAP, SOCKET HEAD                 | EA                           | 22                              |
| C-8                                      | 16                        | PAFZZ              |                                    | 80205       | NAS1351-3-8           | SCREW, CAP, SOCKET HEAD                 | EA                           | 6                               |
| C-8                                      | 17                        | PAFZZ              | 5310-00-167-0753                   | 88044       | AN960PD10L            | WASHER, FLAT                            | EA                           | 22                              |
| C-8                                      | 18                        | PAFZZ              | 4931-01-084-3827                   | 97499       | 209-071-496-101       | RETAINER, PLATE                         | EA                           | 2                               |
| C-8                                      | 19                        | PAFZZ              | 5340-01-084-3821                   | 97499       | 209-071-407-101       | BRACKET, ANGLE                          | EA                           | 2                               |
| C-8                                      | 20                        | PAFZZ              | 5310-00-208-7589                   | 08044       | AN316-4R              | NUT, PLAIN, HEXAGON                     | EA                           | 2                               |
| C-8                                      | 21                        | PAFDD              | 4931-01-084-3818                   | 97499       | 209-071-406-101       | SLIDER ASSEMBLY                         | EA                           | 3                               |
| C-8                                      | 22                        | PADZZ              | 4931-01-084-3820                   | 97499       | 209-0/1-427-103       | .STUD, SLIDER ASSEMB ASSEMBLY           | EA                           | 1                               |
| C-8                                      | 23                        | XADZZ              |                                    | 97499       | 209-671-002-101       | .SLIDER ASSEMBLY                        | EA                           | 1                               |
| C-8                                      | 24                        | PAFZZ              | 5306-00-558-9452                   | 88044       | AN4H32                | BOLT, MACHINC                           | EA                           | 2                               |
| C-8                                      | 25                        | PAFZZ              | 5340-01-084-3873                   | 97499       | 209-0/1-494-101       | BRACKET, ANGLE                          | EA                           | 2                               |
| C-8                                      | 26                        | PAFZZ              | 5310-00-297-8901                   | 88044       | AN316-8R              | NUT, PLAIN, HEXAGON                     | EA                           | 4                               |
| C-8                                      | 27                        | PAFZZ              | 5310-00-306-3167                   | 88044       | AN960C816L            | WASHER, FLAT                            | EA                           | 2                               |
| C-8                                      | 28                        | PAFZZ              | 5310-01-006-3919                   |             | MS51859-10            | C-25                                    | EA                           | 4                               |

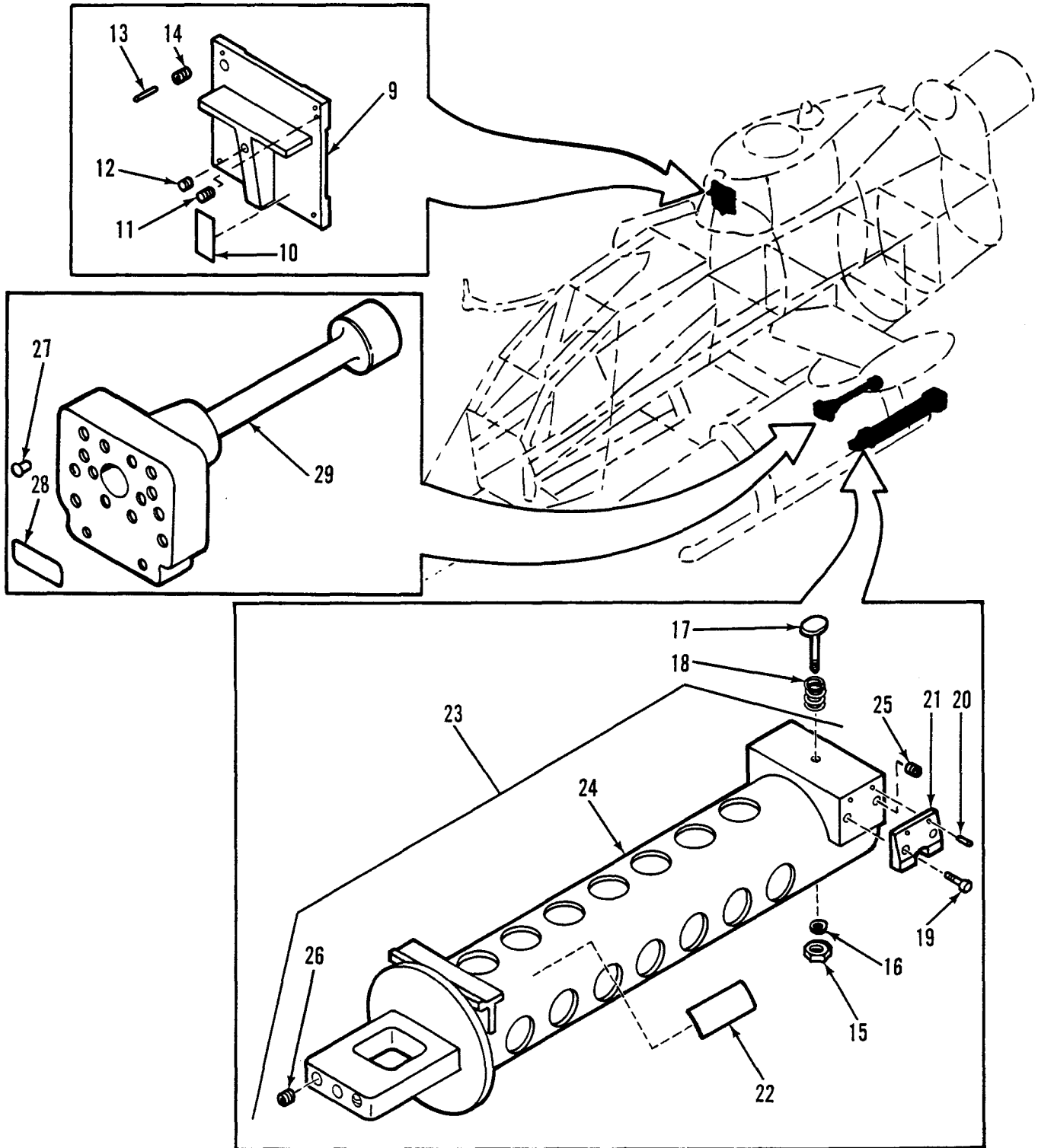
| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (2)<br>(b)<br>ITEM<br>NO. | (3)<br>SMR<br>CODE | (3)<br>NATIONAL<br>STOCK<br>NUMBER | (4)<br>FSCM | (5)<br>PART<br>NUMBER | TM9-4931-583-30&P<br>(6)<br>DESCRIPTION | (7)<br>USABLE ON CODE U/M | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|---------------------------|--------------------|------------------------------------|-------------|-----------------------|---|---------------------------|---------------------------------|
| C-8                                      | 29                        | PAFZZ              | 5306-00-182-1528                   | 88044       | AN4H10                | BOLT, MACHINE                           | EA                        | 8                               |
| C-8                                      | 30                        | PAFZZ              | 5310-00-184-9001                   | 88044       | AN960PD416L           | WASHER, FLAT                            | EA                        | 8                               |
| C-8                                      | 31                        | PAFDD              | 4931-01-084-3825                   | 97499       | 209-071-426-101       | SLIDER ASSEMBLY                         | EA                        | 1                               |
| C-8                                      | 32                        | PADZZ              | 5307-01-084-3871                   | 97499       | 209-071-428-101       | .STUD, STEPPED                          | EA                        | 1                               |
| C-8                                      | 33                        | XADZZ              |                                    | 97499       | 209-671-004-101       | .SLIDER ASSEMBLY                        | EA                        | 1                               |
| C-8                                      | 34                        | PADZZ              | 5305-00-753-4416                   | 96906       | MS51023-54            | .SETSCREW                               | EA                        | 2                               |
| C-8                                      | 35                        | PADZZ              | 5340-01-024-9030                   | 96906       | MS21209F1-10P         | .INSERT, SCREW THREAD                   | EA                        | 2                               |
| C-8                                      | 36                        | PAFDD              | 4931-01-084-3823                   | 97499       | 209-071-425-101       | SLIDER ASSEMBLY                         | EA                        | 1                               |
| C-8                                      | 37                        | PADZZ              | 5307-01-084-3870                   | 97499       | 209-071-429-101       | .STUD, STEPPED                          | EA                        | 1                               |
| C-8                                      | 38                        | XADZZ              |                                    | 97499       | 209-671-003-101       | .SLIDER, KNOB ASSEMBLY                  | EA                        | 1                               |
| C-8                                      | 39                        | PAFDD              | 4931-01-084-3817                   | 97499       | 209-071-404-101       | FRAME ASSEMBLY                          | EA                        | 1                               |
| C-8                                      | 40                        | PADZZ              | 5340-00-597-3302                   | 96906       | MS124695              | .INSERT, SCREW THREAD                   | EA                        | 6                               |
| C-8                                      | 41                        | PADZZ              | 5315-00-753-8539                   | 96906       | MS16556-27            | .PIN, STRAIGHT, HEADLESS                | EA                        | 1                               |
| C-8                                      | 42                        | PAFDD              | 4931-01-084-3816                   | 97499       | 209-071-403-103       | FRAME FIXED                             | EA                        | 1                               |
| C-8                                      | 43                        | PADZZ              | 5340-00-597-3302                   | 96906       | MS124695              | .INSERT, SCREW THREAD                   | EA                        | 4                               |
|  |                           |                    |                                    |             |                       | GROUP 9307A08 HANDLE ASSEMBLY           |                           |                                 |
|  |                           |                    |                                    |             |                       | 209-071-432-101                         |                           |                                 |
| C-8                                      | 44                        | PADZZ              | 5315-00-889-2517                   | 81349       | MS16556-631           | PIN, STRAIGHT, HEADLESS                 | EA                        | 1                               |
| C-8                                      | 45                        | PADZZ              | 5355-01-084-3851                   | 97499       | 209-071-430-101       | KNOB                                    | EA                        | 1                               |
| C-8                                      | 46                        | PADZZ              | 4931-01-084-3881                   | 97499       | 209-071-431-101       | SHAFT, SHOULDERED                       | EA                        | 1                               |
| C-8                                      | 47                        | PADZZ              | 5355-01-084-3850                   | 97499       | 209-071-499-101       | KNOB                                    | EA                        | 1                               |



ARR82-0009

Figure C-9. Alignment Device, Group 9307A09 thru Cable Assembly, Unit Illumination, Group 9307A14 (Sheet 1 of 2)





ARR82-0050

Figure C-9. Alignment Device, Group 9307A09 thru Cable Assembly, Unit Illumination, Group 9307A14 (Sheet 2 of 2)



| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (2)<br>ITEM<br>NO. | (3)<br>SMR<br>CODE | (4)<br>NATIONAL<br>STOCK<br>NUMBER | (5)<br>FSCM | (6)<br>PART<br>NUMBER | TM9-4931-583-30&P<br>(6)<br>DESCRIPTION     | (7)<br>USABLE ON CODE | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|--------------------|--------------------|------------------------------------|-------------|-----------------------|---|-----------------------|---------------------------------|
|  |                    |                    |                                    |             |                       | GROUP 9307A09 ALIGNMENT DEVICE              |                       |                                 |
|  |                    |                    |                                    |             |                       | 209-071-434-101                             |                       |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A0901 BASE ASSEMBLY               |                       |                                 |
|  |                    |                    |                                    |             |                       | 209-071-435-101                             |                       |                                 |
| C-9                                      | 1                  | PAFZZ              | 5355-01-084-3852                   | 97499       | 209-071-437-101       | KNOB  | EA                    | 2                               |
| C-9                                      | 2                  | PAFZZ              | 4931-01-084-3886                   | 97499       | 209-071-436-101       | COVER, ACCESS                               | EA                    | 1                               |
| C-9                                      | 3                  | PAFDD              | 4931-01-084-3792                   | 97499       | 209-071-435-101       | BASE ASSEMBLY                               | EA                    | 1                               |
| C-9                                      | 4                  | PADZZ              | 5315-00-951-3215                   | 96906       | MS16555-648           | .PIN, STRAIGHT, HEADLESS                    | EA                    | 1                               |
| C-9                                      | 5                  | PADZZ              | 5340-00-291-3484                   | 96906       | MS124696              | .INSERT, SCREW THREAD                       | EA                    | 2                               |
| C-9                                      | 6                  | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | .BUSHING, SLEEVE                            | EA                    | 13                              |
| C-9                                      | 7                  | XADZZ              |                                    | 97499       | 209-071-435-103       | .CLAMP BASE                                 | EA                    | 1                               |
| C-9                                      | 8                  | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                      | EA                    | 4                               |
|  |                    |                    |                                    |             |                       | GROUP 9307A10 ALIGNMENT DEVICE              |                       |                                 |
|  |                    |                    |                                    |             |                       | 209-071-408-101                             |                       |                                 |
| C-9                                      | 9                  | XADZZ              |                                    | 97499       | 209-071-408-103       | ALIGNMENT ASSEMBLY                          | EA                    | 1                               |
| C-9                                      | 10                 | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                      | EA                    | 1                               |
| C-9                                      | 11                 | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | BUSHING, SLEEVE                             | EA                    | V                               |
| C-9                                      | 12                 | PADZZ              | 3120-01-084-3862                   | 97499       | 21-003C4-12           | BUSHING, SLEEVE                             | EA                    | 1                               |
| C-9                                      | 13                 | PADZZ              | 5315-00-682-1727                   | 96906       | MS16555-625           | PIN, STRAIGHT, HEADLESS                     | EA                    | 1                               |
| C-9                                      | 14                 | PADZZ              |                                    | 97499       | 21-008C35-12          | BUSHING BLANK                               | EA                    | 1                               |
|  |                    |                    |                                    |             |                       | GROUP 9307A11 ALIGNMENT ASSEMBLY, TOW       |                       |                                 |
|  |                    |                    |                                    |             |                       | MISSLE 209-071-447-101                      |                       |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A1101 BODY ASSEMBLY               |                       |                                 |
|  |                    |                    |                                    |             |                       | 209-071-450-101                             |                       |                                 |
| C-9                                      | 15                 | PADZZ              | 5310-00-807-1475                   | 96906       | MS21042L4             | NUT, SELF-LOCKING, EXTENDED WASHER, HEXAGON | EA                    | 1                               |
| C-9                                      | 16                 | PADZZ              | 5310-00-187-2354                   | 88044       | AN960PD416            | WASHER, FLAT                                | EA                    | 1                               |
| C-9                                      | 17                 | PADZZ              | 5307-01-084-3885                   | 97499       | 209-071-448-101       | STUD, SELF-LOCKING                          | EA                    | 1                               |
| C-9                                      | 18                 | PADZZ              |                                    | 15840       | 9-0804-21             | SPRING                                      | EA                    | 1                               |
| C-9                                      | 19                 | PADZZ              | 5305-01-116-8947                   | 96906       | MS16998-45L           | SCREW, SELF-LOCKING                         | EA                    | 4                               |
| C-9                                      | 20                 | PADZZ              | 5315-00-753-3894                   | 96906       | MS16562-238           | PIN, SPRING                                 | EA                    | 4                               |
| C-9                                      | 21                 | PADZZ              | 4931-01-084-3781                   | 97499       | 209-071-449-101       | LOCATOR, ALIGNMENT                          | EA                    | 2                               |
| C-9                                      | 22                 | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                      | EA                    | 1                               |
| C-9                                      | 23                 | PADDD              | 4931-01-084-3782                   | 97499       | 209-071-450-101       | BODY ASSEMBLY                               | EA                    | 1                               |
| C-9                                      | 24                 | XADZZ              |                                    | 97499       | 209-071-450-103       | .SUPPORT ASSEMBLY                           | EA                    | 1                               |
| C-9                                      | 25                 | PADZZ              | 5340-00-290-4501                   | 96906       | MS124816              | .INSERT, SCREW THREAD                       | EA                    | 4                               |
| C-9                                      | 26                 | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | BUSHING, SLEEVE                             | EA                    | 2                               |
|  |                    |                    |                                    |             |                       | GROUP 9307A12 ALIGNMENT DEVICE ASSEMBLY     |                       |                                 |
|  |                    |                    |                                    |             |                       | 209-071-439-105                             |                       |                                 |
| C-9                                      | 27                 | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | BUSHING, SLEEVE                             | EA                    | 8                               |
| C-9                                      | 28                 | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                      | EA                    | 1                               |
| C-9                                      | 29                 | XADZZ              |                                    | 97499       | 209-071-439-107       | ALIGNMENT DEVICE                            | EA                    | 1                               |

| (1)<br>ILLUSTRATION<br>(a) (b)<br>FIG ITEM<br>NO. NO. |    | (2)<br>SMR<br>CODE | (3)<br>NATIONAL<br>STOCK<br>NUMBER | TM9-4931-583-30&P<br>(4) (5)<br>FSCM PART<br>NUMBER |                 | (6)<br>DESCRIPTION<br>USABLE ON CODE             | (7)<br>U/M | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|---|----|--------------------|------------------------------------|---|-----------------|--|------------|---------------------------------|
| GROUP 9307A13 CABLE ASSEMBLY                          |    |                    |                                    |   |                 |  |            |                                 |
| 209-175-441-103                                       |    |                    |                                    |   |                 |  |            |                                 |
| C-9   | 30 | PADZZ              | 5935-01-025-4360                   | 96906   | MS3417-12N      | CLAMP, CABLE, ELECTRICAL CONNECTOR               | EA         | 4                               |
| C-9   | 31 | PADZZ              | 5935-01-065-9281                   | 96906   | MS3471L12-3S    | CONNECTOR, RECEPTACLE, ELECTRICAL                | EA         | 3                               |
| C-9   | 32 | PADZZ              | 5935-00-189-2535                   | 96906   | MS3476L12-3P    | CONNECTOR, PLUG, ELECTRICAL                      | EA         | 1                               |
| C-9   | 33 | PADZZ              | 5940-00-502-8806                   | 96906   | MS25181-2       | SPLICE, CONDUCTOR                                | EA         | 2                               |
| C-9   | 34 | PADZZ              | 6145-01-117-7465                   | 81349   | M27500-20RB2T14 | WIRE, ELECTRICAL                                 | T          | V                               |
| C-9   | 35 | PADZZ              | 5970-00-812-2967                   | 81349   | M23053/5-108-0  | INSULATION SLEEVING ELECTRICAL                   | EA         | 1                               |
| GROUP 9307A14 CABLE ASSEMBLY, UNIT                    |    |                    |                                    |   |                 |  |            |                                 |
| ILLUMINATION 209-071-455-101                          |    |                    |                                    |   |                 |  |            |                                 |
| C-9   | 36 | PAFZZ              | 5310-00-807-1474                   | 96906   | MS21042L3       | NUT, SELF-LOCKING, EXTENDED WASHER, HEXAGON      | EA         | 1                               |
| C-9   | 37 | PAFZZ              | 5310-00-183-4406                   | 88044   | AN960PD10       | WASHER, FLAT                                     | EA         | 1                               |
| C-9   | 38 | PAFZZ              | 5305-00-912-7307                   | 96906   | MS27039-1-06    | SCREW, MACHINE                                   | EA         | 1                               |
| C-9   | 39 | PAFZZ              | 5340-00-726-9819                   | 96906   | MS21919D03      | CLAMP, LOOP                                      | EA         | 1                               |
| C-9   | 40 | PAFZZ              | 4931-01-084-3841                   | 97499   | 209-175-441-105 | CABLE ASSEMBLY, SPEC SPECIAL PURPOSE, ELECTRICAL | EA         | 1                               |
| C-9   | 41 | PADZZ              | 5935-00-189-2535                   | 96906   | MS3476L12-3P    | CONNECTOR, PLUG, ELECTRICAL                      | EA         | 1                               |
| C-9   | 42 | PAFZZ              | 6210-00-583-9349                   | 96906   | MS25041-5       | LIGHT, INDICATOR                                 | EA         | 1                               |
| C-9   | 43 | PAFZZ              | 5935-01-025-4360                   | 96906   | MS3417-12N      | CLAMP CABLE, ELECTRICAL CONNECTOR                | EA         | 1                               |
| C-9   | 44 | PADZZ              | 4931-01-084-3737                   | 25706   | 975-4           | RETRACTOR, CORD, LIGHT ASSEMBLY                  | EA         | 1                               |
| C-9   | 45 | PADZZ              | 1560-00-888-1097                   | 97499   | 85T4-8-2        | TUBE, INSULATION SLEEVING, ELECTRICAL            | EA         | 1                               |
| C-9   | 46 | PADZZ              | 5970-01-084-3843                   | 97499   | 130-005-8-3     | INSULATION SLEEVING, ELECTRICAL                  | EA         | 1                               |
| C-9   | 47 | PAFZZ              | 5340-01-084-3872                   | 97499   | 209-071-456-101 | BRACKET, ANGLE                                   | EA         | 1                               |
| C-9   | 48 | PAFZZ              | 5935-01-084-3882                   | 97499   | 209-071-454-101 | GUARD, ELECTRICAL CONNECTOR                      | EA         | 1                               |
| C-9   | 49 | PAFZZ              | 5310-01-087-7234                   | 97499   | 140-009A32T40   | WASHER, FLAT                                     | EA         | 1                               |
| C-9   | 50 | PAFZZ              | 6240-00-155-7836                   | 96906   | MS25237-327     | LAMP, INCANDESCENT                               | EA         | 1                               |

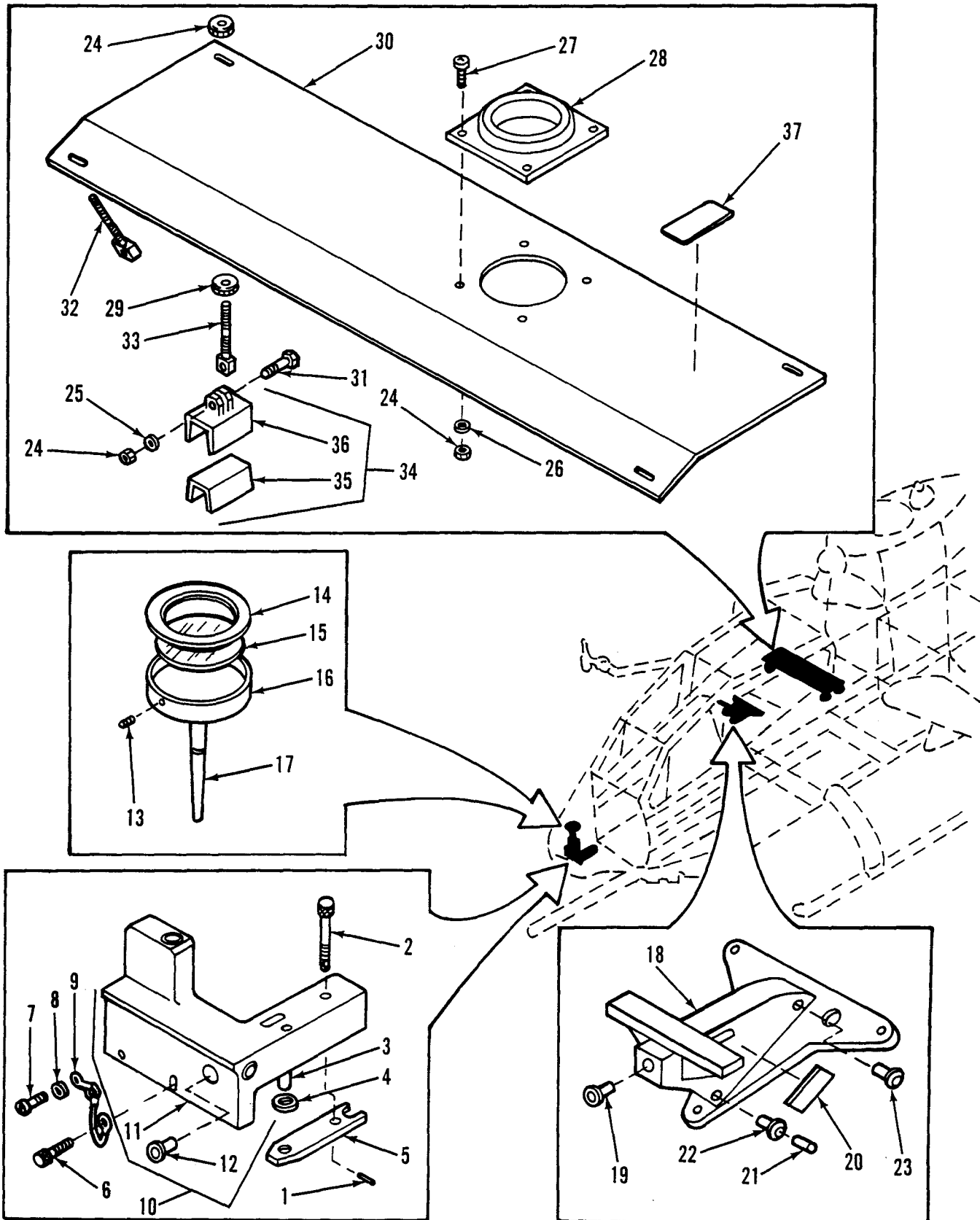
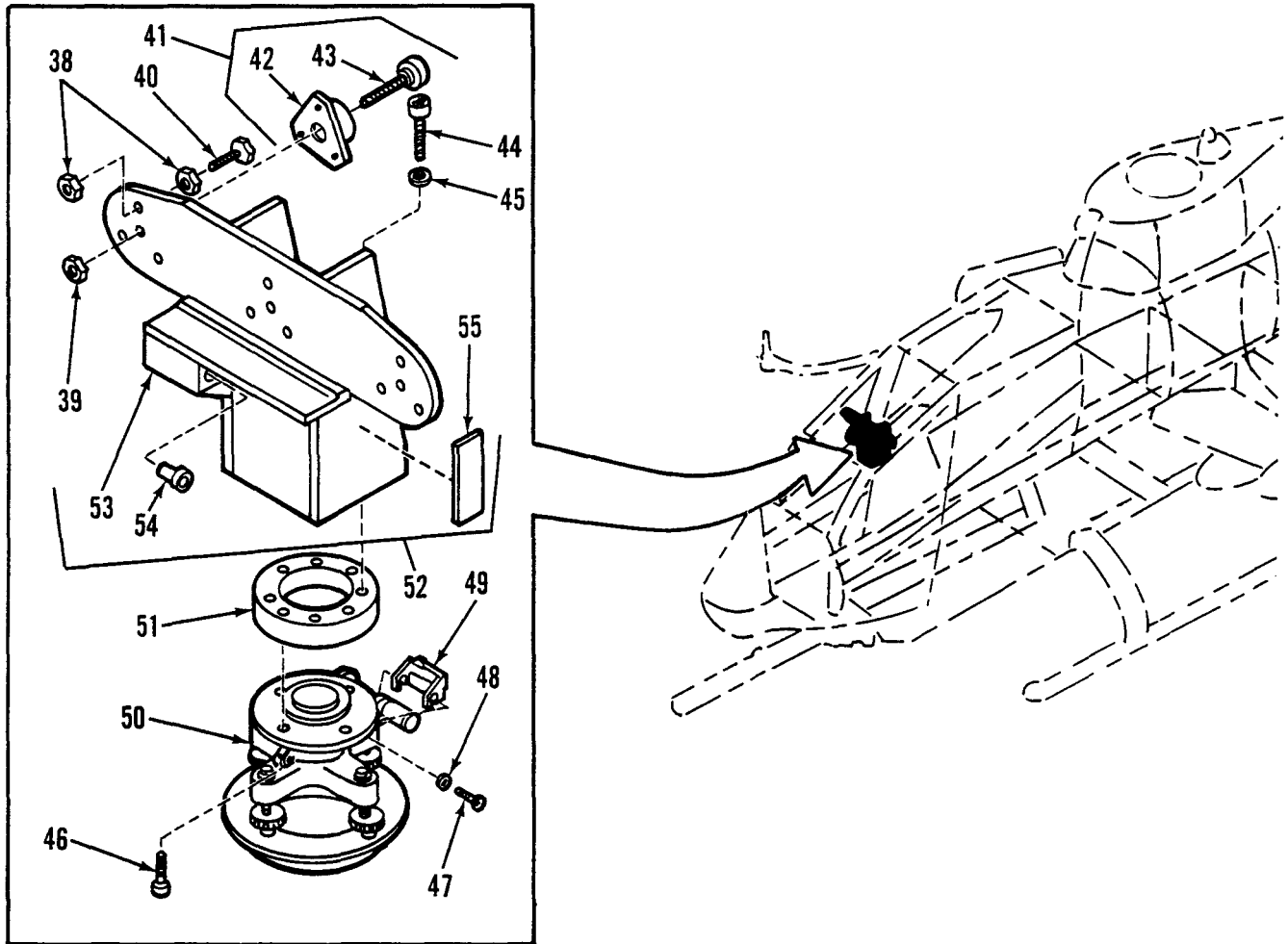


Figure C-10. Alignment Device, Group 9307A15 thru Clevis Base Assembly, Group 9307A200301 (Sheet 1 of 3)

ARR82-0010



ARR82-0011

Figure C-10. Alignment Device, Group 9307A15 thru  
Clevis Base Assembly, Group 9307A200301 (Sheet 2 of 3)

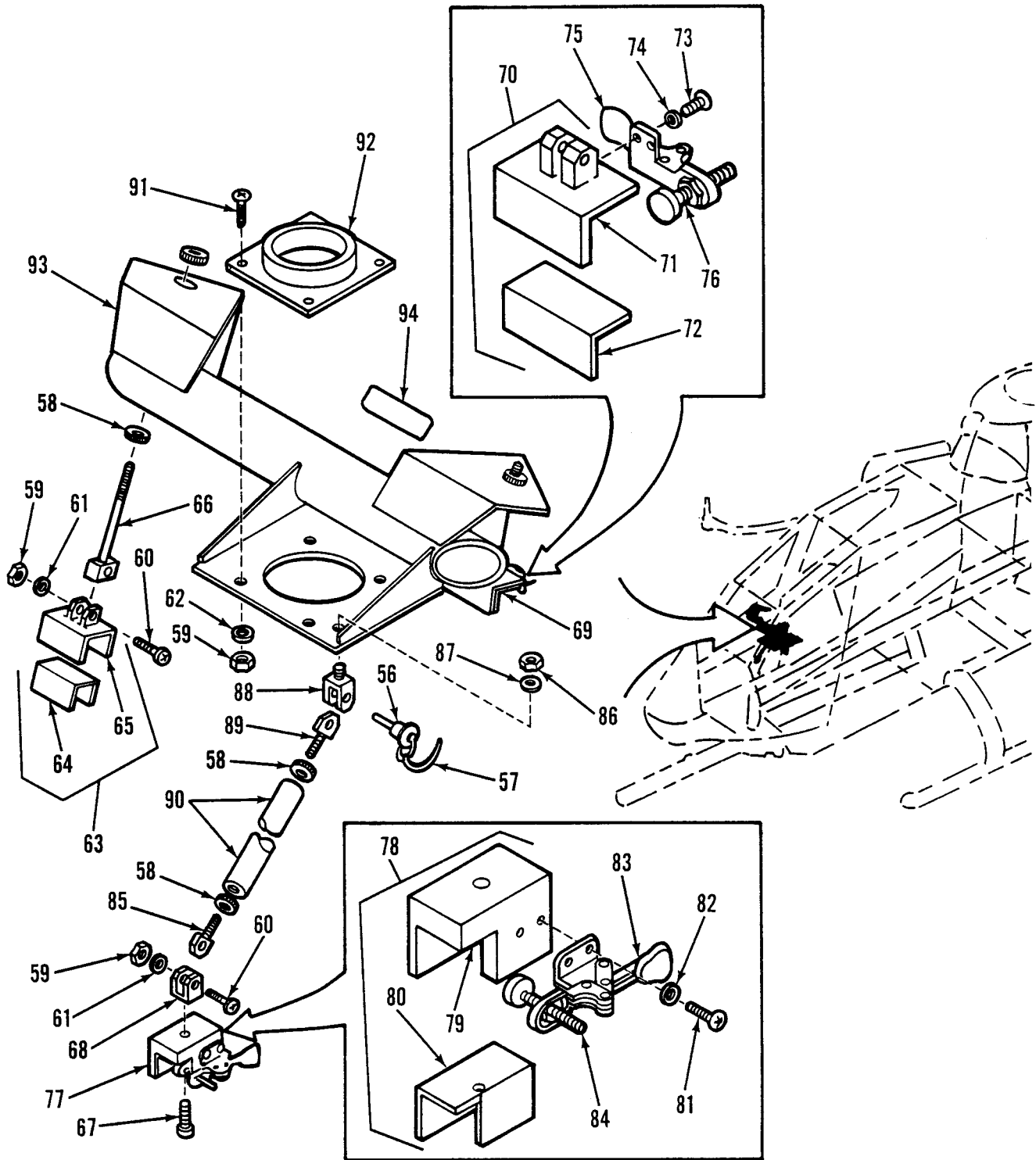


Figure C-10. Alignment Device, Group 9307A15 thru Clevis Base Assembly, Group 9307A200301 (Sheet 3 of 3)

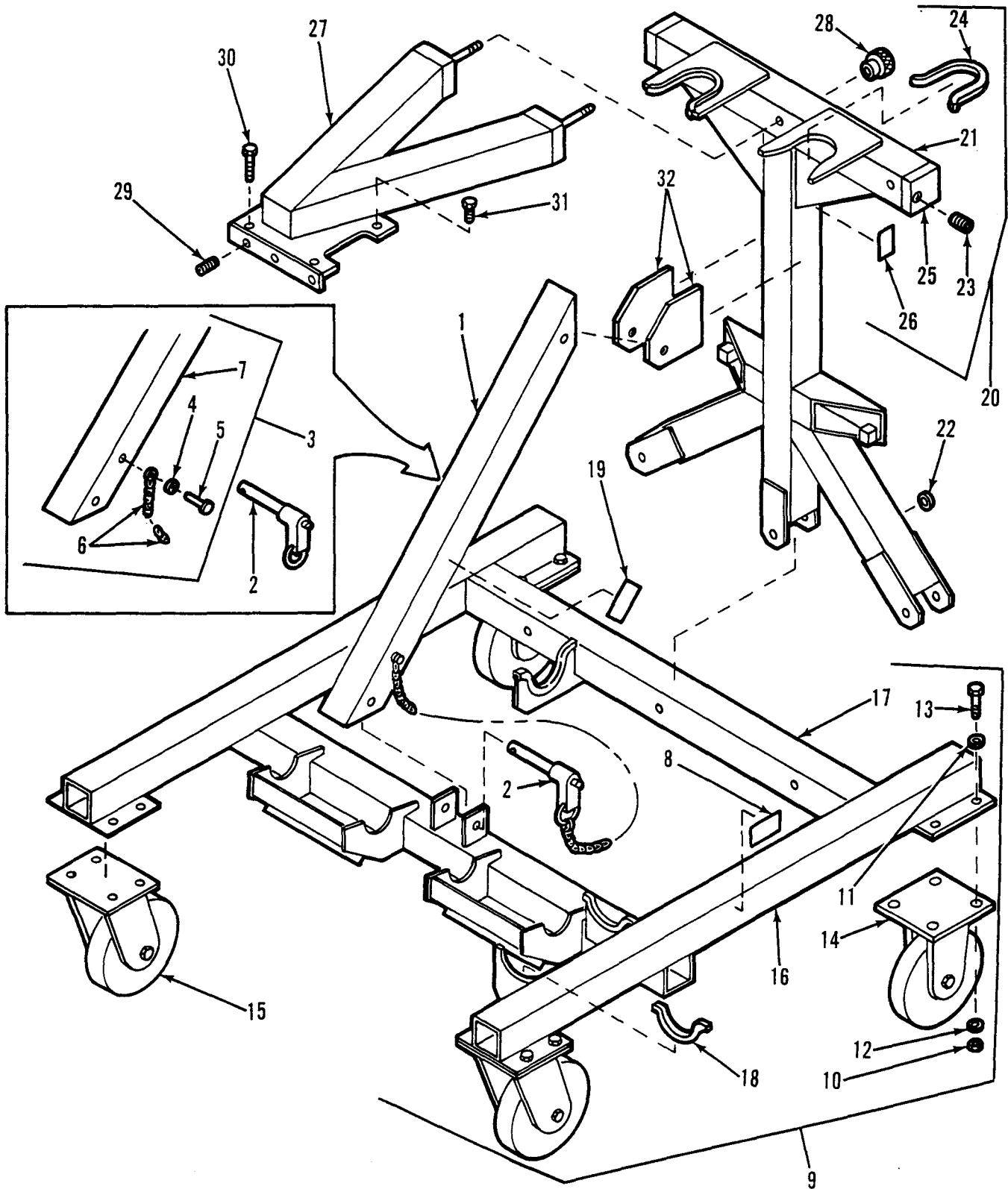
ARR82-0051

| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (b)<br>ITEM<br>NO. | (2)<br>SMR<br>CODE | (3)<br>NATIONAL<br>STOCK<br>NUMBER | (4)<br>FSCM | (5)<br>PART<br>NUMBER | (6)<br>DESCRIPTION                          | (7)<br>USABLE ON CODE | U/M | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|--------------------|--------------------|------------------------------------|-------------|-----------------------|---|-----------------------|-----|---------------------------------|
| TM9-4931-583-30&P                        |                    |                    |                                    |             |                       |   |                       |     |                                 |
| GROUP 9307A15 ALIGNMENT DEVICE ASSEMBLY  |                    |                    |                                    |             |                       |   |                       |     |                                 |
| 209-071-474-101                          |                    |                    |                                    |             |                       |   |                       |     |                                 |
| GROUP 9307A1501 BLOCK ALIGNMENT DEVICE   |                    |                    |                                    |             |                       |   |                       |     |                                 |
| 209-071-475-101                          |                    |                    |                                    |             |                       |   |                       |     |                                 |
| C-10                                     | 1                  | PAFZZ              | 5315-00-060-4350                   | 96906       | MS16556-620           | PIN, STRAIGHT, HEADLESS                     |                       | EA  | 1                               |
| C-10                                     | 2                  | PAFZZ              | 5355-01-084-3848                   | 97499       | 209-071-477-101       | KNOB  |                       | EA  | 1                               |
| C-10                                     | 3                  | PADZZ              | 5315-01-117-4333                   | 96906       | MS16556-665           | PIN, STRAIGHT HEADLESS                      |                       | EA  | 1                               |
| C-10                                     | 4                  | PAFZZ              | 5310-00-187-2400                   | 88044       | AN960PD616            | WASHER, FLAT                                |                       | EA  | 1                               |
| C-10                                     | 5                  | PAFZZ              | 4931-01-085-1528                   | 97499       | 209-071-476-101       | PLATE, ALIGNMENT DEVICE                     |                       | EA  | 1                               |
| C-10                                     | 6                  | PAFZZ              | 5355-01-084-3847                   | 97499       | 209-071-478-101       | KNOB  |                       | EA  | 1                               |
| C-10                                     | 7                  | PAFZZ              | 5305-00-914-5929                   | 96906       | MS27039-1-07          | SCREW, MACHINE                              |                       | EA  | 1                               |
| C-10                                     | 8                  | PAFZZ              | 5310-00-167-0753                   | 88044       | AN960PD10L            | WASHER, FLAT                                |                       | EA  | 1                               |
| C-10                                     | 9                  | PAFZZ              | 4931-01-084-3770                   | 99862       | CL-51-KP-6-5-3LR      | NYLON CABLE ASSEMBLY                        |                       | EA  | 1                               |
| C-10                                     | 10                 | PAFDD              | 4931-01-084-3752                   | 97499       | 209-071-475-101       | BLOCK, ALIGNMENT DEVICE                     |                       | EA  | 1                               |
| C-10                                     | 11                 | XADZZ              |                                    | 97499       | 209-071-475-103       | .BLOCK, ALIGNMENT                           |                       | EA  | 1                               |
| C-10                                     | 12                 | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | .BUSHING, SLEEVE                            |                       | EA  | 7                               |
| GROUP 9307A16 MIRROR ASSEMBLY            |                    |                    |                                    |             |                       |   |                       |     |                                 |
| 209-071-466-101                          |                    |                    |                                    |             |                       |   |                       |     |                                 |
| C-10                                     | 13                 | PAFZZ              | 5305-00-715-1237                   | 96906       | MS51981-28            | SETSCREW                                    |                       | EA  | 4                               |
| C-10                                     | 14                 | PAFZZ              | 4931-01-084-3758                   | 97499       | 209-071-468-101       | RETAINER, MIRROR                            |                       | EA  | 1                               |
| C-10                                     | 15                 | PAFZZ              | 4920-01-057-2596                   | 33363       | 71-6250               | MIRROR, OPTICAL INSTRUMENT                  |                       | EA  | 1                               |
| C-10                                     | 16                 | PADZZ              | 4931-01-084-3757                   | 97499       | 209-671-005-101       | MIRROR HOUSING                              |                       | EA  | 1                               |
| C-10                                     | 17                 | PADZZ              | 5315-01-084-3858                   | 97499       | 209-071-467-101       | PIN, TAPERED, THREADED                      |                       | EA  | 1                               |
| GROUP 9307A17 ALIGNMENT DEVICE           |                    |                    |                                    |             |                       |   |                       |     |                                 |
| 209-071-401-101                          |                    |                    |                                    |             |                       |   |                       |     |                                 |
| C-10                                     | 18                 | XADZZ              |                                    | 97499       | 209-071-401-103       | ALIGNMENT ASSEMBLY                          |                       | EA  | 1                               |
| C-10                                     | 19                 | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | BUSHING, SLEEVE                             |                       | EA  | 1                               |
| C-10                                     | 20                 | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                      |                       | EA  | 4                               |
| C-10                                     | 21                 | PADZZ              | 5315-00-889-2610                   | 96906       | MS16555-619           | PIN, STRAIGHT, HEADLESS                     |                       | EA  | 1                               |
| C-10                                     | 22                 | PADZZ              |                                    | 97499       | 21-007C6-14           | BUSHING, SLEEVE                             |                       | EA  | 1                               |
| C-10                                     | 23                 | PADZZ              |                                    | 97499       | 21-006C6-14           | BUSHING, SLEEVE                             |                       | EA  | 1                               |
| GROUP 9307A18 SHELF ASSEMBLY, PILOT      |                    |                    |                                    |             |                       |   |                       |     |                                 |
| 209-071-471-101                          |                    |                    |                                    |             |                       |   |                       |     |                                 |
| GROUP 9307A1801 CLEVIS ASSEMBLY          |                    |                    |                                    |             |                       |   |                       |     |                                 |
| 209-071-416-101                          |                    |                    |                                    |             |                       |   |                       |     |                                 |
| C-10                                     | 24                 | PAFZZ              | 5310-00-807-1474                   | 96906       | MS21042L3             | NUT, SELF-LOCKING, EXTENDED WASHER, HEXAGON |                       | EA  | 12                              |
| C-10                                     | 25                 | PAFZZ              | 5310-00-167-0801                   | 88044       | AN960C10              | WASHER, FLAT                                |                       | EA  | 6                               |
| C-10                                     | 26                 | PAFZZ              | 5310-00-183-4406                   | 88044       | AN960PD10             | WASHER, FLAT                                |                       | EA  | 4                               |
| C-10                                     | 27                 | PAFZZ              | 5305-00-925-9674                   | 96906       | MS27039-1-10          | SCREW, MACHINE                              |                       | EA  | 4                               |
| C-10                                     | 28                 | PAFZZ              | 4931-01-084-3835                   | 97499       | 209-071-419-101       | RING, MOUNT                                 |                       | EA  | 2                               |
| C-10                                     | 29                 | PAFZZ              | 5310-01-084-3867                   | 97499       | 209-071-446-101       | NUT, PLAIN, KNURLED                         |                       | EA  | 14                              |
| C-10                                     | 30                 | XAFZZ              |                                    | 97499       | 209-071-472-101       | SHELF ASSEMBLY, FORW FORWARD                |                       | EA  | 1                               |
| C-10                                     | 31                 | PAFZZ              | 5306-00-156-2330                   | 88044       | AN3C11A               | BOLT, MACHINE                               |                       | EA  | 4                               |
| C-10                                     | 32                 | PAFZZ              | 5306-01-084-3844                   | 97499       | 209-071-420-101       | BOLT, EYE                                   |                       | EA  | 2                               |
| C-10                                     | 33                 | PAFZZ              | 5306-01-084-3845                   | 97499       | 209-071-420-103       | BOLT, EYE                                   | EA                    | 5   |                                 |
| C-10                                     | 34                 | PAFFF              | 4931-01-084-3833                   | 97499       | 209-071-416-101       | CLEVIS ASSEMBLY<br>C-35                     | EA                    | 5   |                                 |

| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (2)<br>ITEM<br>NO. | (3)<br>SMR<br>CODE | (4)<br>NATIONAL<br>STOCK<br>NUMBER | (5)<br>FSCM | (6)<br>PART<br>NUMBER | TM9-4931-583-30&P<br>(6)<br>DESCRIPTION  | (7)<br>USABLE ON CODE | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|--------------------|--------------------|------------------------------------|-------------|-----------------------|--|-----------------------|---------------------------------|
| C-10                                     | 35                 | PAFZZ              | 4931-01-084-3879                   | 97499       | 209-071-416-109       | .PAD, CUSHIONING   | EA                    | 5                               |
| C-10                                     | 36                 | XAFZZ              |                                    | 97499       | 209-071-416-107       | .CLEVIS  | EA                    | 5                               |
| C-10                                     | 37                 | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION<br>GROUP 9307A19 PEDESTAL ASSEMBLY, ALIGNMENT<br>209-071-414-101<br>GROUP 9307A1901 MAGNET ASSEMBLY<br>209-071-421-101<br>GROUP 9307A1902 PEDESTAL ASSEMBLY<br>209-071-423-101  | EA                    | 1                               |
| C-10                                     | 38                 | PADZZ              | 5310-00-268-6022                   | 80044       | AN315C-3R             | NUT, PLAIN, HEXAGON  | EA                    | 18                              |
| C-10                                     | 39                 | PADZZ              | 5310-00-997-1888                   | 96906       | MS35649-2252          | NUT, PLAIN, HEXAGON  | EA                    | 6                               |
| C-10                                     | 40                 | PADZZ              | 5305-01-084-3877                   | 97499       | 209-071-424-101       | BOLT, ECCENTRIC HEAD   | EA                    | 9                               |
| C-10                                     | 41                 | PADDD              | 4931-01-084-3787                   | 97499       | 209-071-421-101       | MAGNET ASSEMBLY  | EA                    | 3                               |
| C-10                                     | 42                 | XADZZ              |                                    | 97499       | 209-071-421-103       | .PAD ASSEMBLY  | EA                    | 1                               |
| C-10                                     | 43                 | PADZZ              | 5306-01-137-7628                   | 97499       | 209-071-493-101       | .BOLT, MACHINE   | EA                    | 1                               |
| C-10                                     | 44                 | PADZZ              | 5305-00-983-7430                   | 96906       | MS16998-33            | SCREW, CAP, SOCKET HEAD  | EA                    | 4                               |
| C-10                                     | 45                 | PADZZ              | 5310-00-167-0752                   | 88044       | AN960D10L             | WASHER, FLAT   | EA                    | 4                               |
| C-10                                     | 46                 | PADZZ              | 5305-00-983-6652                   | 96906       | MS16998-29            | SCREW, CAP, SOCKET HEAD  | EA                    | 4                               |
| C-10                                     | 47                 | PADZZ              | 5305-00-576-6435                   | 88044       | AN520B0R4             | SCREW, MACHINE   | EA                    | 2                               |
| C-10                                     | 48                 | PADZZ              | 5310-00-996-0135                   | 96906       | MS15795-701           | WASHER, FLAT   | EA                    | 2                               |
| C-10                                     | 49                 | PADZZ              | 4931-01-084-3733                   | 97499       | 209-071-418-101       | INDICATOR  | EA                    | 1                               |
| C-10                                     | 50                 | PADZZ              | 4931-01-084-3790                   | 97499       | 209-671-006-101       | PEDESTAL BASE  | EA                    | 1                               |
| C-10                                     | 51                 | PADZZ              | 4931-01-084-3785                   | 97499       | 209-071-415-101       | RING, MOUNT  | EA                    | 1                               |
| C-10                                     | 52                 | PADDD              | 4931-01-084-3788                   | 97499       | 209-071-423-101       | PEDESTAL ASSEMBLY  | EA                    | 1                               |
| C-10                                     | 53                 | XADZZ              |                                    | 97499       | 209-071-423-103       | .PEDESTAL WELDMENT   | EA                    | 1                               |
| C-10                                     | 54                 | PADZZ              | 3120-01-085-8521                   | 97499       | 209-071-497-103       | .BUSHING, SLEEVE   | EA                    | 2                               |
| C-10                                     | 55                 | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | .MARKER, IDENTIFICATION<br>GROUP 9307A20 SHELF ASSEMBLY, GUNNER<br>209-071-409-101<br>GROUP 9307A2001 CLEVIS ASSEMBLY<br>209-071-416-101<br>GROUP 9307A2002 CLEVIS ASSEMBLY<br>209-071-519-101<br>GROUP 9307A200201 CLEVIS ASSEMBLY<br>209-071-416-103<br>GROUP 9307A2003 CLEVIS BASE ASSEMBLY<br>209-071-518-101<br>GROUP 9307A200301 CLEVIS BASE ASSEMBLY<br>209-071-443-105 | EA                    | 1                               |
| C-10                                     | 56                 | PAFZZ              | 5340-01-120-1573                   | 80205       | NAS1333C3085          | PIN, QUICK RELEASE QUICK RELEASE   | EA                    | 1                               |
| C-10                                     | 57                 | PAFZZ              | 4931-01-084-3736                   | 99862       | CL-42-KA-008-16L      | NYLON CABLE ASSEMBLY   | EA                    | 1                               |
| C-10                                     | 58                 | PAFZZ              | 5310-01-084-3867                   | 97499       | 209-071-446-101       | NUT, PLAIN, KNURLED  | EA                    | 5                               |
| C-10                                     | 59                 | PAFZZ              | 5310-00-807-1474                   | 96906       | MS21042L3             | NUT, SELF-LOCKING, EXTENDED WASHER, HEXAGON  | EA                    | 7                               |
| C-10                                     | 60                 | PAFZZ              | 5305-00-891-4682                   | 96906       | MS27039C1-19          | SCREW, MACHINE SELF-LOCKING  | EA                    | 3                               |
| C-10                                     | 61                 | PAFZZ              | 5310-00-167-0801                   | 88044       | AN960C10              | WASHER, FLAT   | EA                    | 3                               |
| C-10                                     | 62                 | PAFZZ              | 5310-00-183-4406                   | 88044       | AN960PD10             | WASHER, FLAT   | EA                    | 4                               |

| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (2)<br>ITEM<br>NO. | (3)<br>SMR<br>CODE | (4)<br>NATIONAL<br>STOCK<br>NUMBER | (5)<br>FSCM | (6)<br>PART<br>NUMBER | TM9-4931-583-30&P<br>(6)<br>DESCRIPTION     | (7)<br>USABLE ON CODE | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|--------------------|--------------------|------------------------------------|-------------|-----------------------|---|-----------------------|---------------------------------|
| C-10                                     | 64                 | PAFZZ              | 4931-01-084-3879                   | 97499       | 209-071-416-109       | .PAD, CUSHIONING                            | EA                    | 1                               |
| C-10                                     | 65                 | XAFZZ              |                                    | 97499       | 209-071-416-107       | .CLEVIS                                     | EA                    | 1                               |
| C-10                                     | 66                 | PAFZZ              | 5306-01-084-3844                   | 97499       | 209-071-420-101       | BOLT, EYE                                   | EA                    | 2                               |
| C-10                                     | 67                 | PAFZZ              | 5305-00-983-6658                   | 96906       | MS16998-41            | SCREW, CAP, SOCKET HEAD                     | EA                    | 1                               |
| C-10                                     | 68                 | PAFZZ              | 5340-01-084-3857                   | 97499       | 209-071-417-101       | CLEVIS, ROD END                             | EA                    | 1                               |
| C-10                                     | 69                 | PAFFF              | 4931-01-096-4462                   | 97499       | 209-071-519-101       | CLEVIS ASSEMBLY                             | EA                    | 1                               |
| C-10                                     | 70                 | PAFFF              | 4931-01-122-1690                   | 97499       | 209-071-416-103       | .CLEVIS ASSEMBLY                            | EA                    | 1                               |
| C-10                                     | 71                 | XAFZZ              |                                    | 97499       | 209-071-416-105       | .CLEVIS                                     | EA                    | 1                               |
| C-10                                     | 72                 | PAFZZ              | 4931-01-139-7387                   | 97499       | 209-071-416-111       | .PAD, CUSHIONING                            | EA                    | 1                               |
| C-10                                     | 73                 | PAFZZ              | 5305-00-054-6665                   | 96906       | MS51957-40            | .SCREW, MACHINE                             | EA                    | 8                               |
| C-10                                     | 74                 | PAFZZ              | 5310-00-614-3552                   | 96906       | MS35335-59            | .WASHER, LOCK                               | EA                    | 8                               |
| C-10                                     | 75                 | PAFZZ              | 5120-00-117-3509                   | 99862       | CL51TC                | .CLAMP, TOGGLE                              | EA                    | 2                               |
| C-10                                     | 76                 | PAFZZ              | 3460-00-499-6320                   | 99862       | CL316112FC            | .CLAMPING SCREW                             | EA                    | 2                               |
| C-10                                     | 77                 | PAFFF              | 4931-01-096-4464                   | 97499       | 209-071-518-101       | CLEVIS, BASE ASSEMBL                        | EA                    | 1                               |
| C-10                                     | 78                 | PAFFF              | 4931-01-096-4463                   | 97499       | 209-071-443-105       | .CLEVIS, BASE ASSEMBL                       | EA                    | 1                               |
| C-10                                     | 79                 | XAFZZ              |                                    | 97499       | 209-071-443-101       | .CLEVIS, BASE                               | EA                    | 1                               |
| C-10                                     | 80                 | PAFZZ              |                                    | 97499       | 209-071-443-103       | .PAD, CLEVIS                                | EA                    | 1                               |
| C-10                                     | 81                 | PAFZZ              | 5305-00-054-6665                   | 96906       | MS51957-40            | .SCREW, MACHINE                             | EA                    | 4                               |
| C-10                                     | 82                 | PAFZZ              | 5310-00-614-3552                   | 96906       | MS35335-59            | .WASHER, LOCK                               | EA                    | 4                               |
| C-10                                     | 83                 | PAFZZ              | 5120-00-117-3509                   | 99862       | CL51TC                | .CLAMP, TOGGLE                              | EA                    | 1                               |
| C-10                                     | 84                 | PAFZZ              | 3460-00-499-6320                   | 99862       | CL316112FC            | .FLAT CUSHION                               | EA                    | 1                               |
| C-10                                     | 85                 | PAFZZ              | 5306-01-084-3846                   | 97499       | 209-071-420-105       | BOLT, EYE                                   | EA                    | 1                               |
| C-10                                     | 86                 | PAFZZ              | 5310-00-807-1475                   | 96906       | MS21042L4             | NUT, SELF-LOCKING, EXTENDED WASHER, HEXAGON | EA                    | 1                               |
| C-10                                     | 87                 | PAFZZ              | 5310-00-187-2354                   | 88044       | AN960PD416            | WASHER, FLAT                                | EA                    | 1                               |
| C-10                                     | 88                 | PAFZZ              | 5340-01-084-3856                   | 97499       | 209-071-444-101       | CLEVIS, ROD END                             | EA                    | 1                               |
| C-10                                     | 89                 | PAFZZ              | 5306-01-084-3845                   | 97499       | 209-071-420-103       | BOLT, EYE                                   | EA                    | 1                               |
| C-10                                     | 90                 | PAFZZ              | 4931-01-084-3832                   | 97499       | 209-071-411-101       | POST ASSEMBLY                               | EA                    | 1                               |
| C-10                                     | 91                 | PAFZZ              | 5305-00-925-9674                   | 96906       | MS27039-1-10          | SCREW, MACHINE                              | EA                    | 4                               |
| C-10                                     | 92                 | PAFZZ              | 4931-01-084-3835                   | 97499       | 209-071-419-101       | RING, MOUNT                                 | EA                    | 1                               |
| C-10                                     | 93                 | PAFZZ              | 4931-01-084-3831                   | 97499       | 209-071-410-101       | SHELF ASSEMBLY                              | EA                    | 1                               |
| C-10                                     | 94                 | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                      | EA                    | 1                               |





ARR82-0012

Figure C-11. Stand Assembly, Group 9307A21 thru Group 9307A2103

| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (2)<br>ITEM<br>NO. | (3)<br>SMR<br>CODE | (4)<br>NATIONAL<br>STOCK<br>NUMBER | (5)<br>FSCM | (6)<br>PART<br>NUMBER | TM9-4931-583-30&P<br>(6)<br>DESCRIPTION      | (7)<br>USABLE ON CODE | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|--------------------|--------------------|------------------------------------|-------------|-----------------------|--|-----------------------|---------------------------------|
|  |                    |                    |                                    |             |                       | GROUP 9307A21 STAND ASSEMBLY                 |                       |                                 |
|  |                    |                    |                                    |             |                       | 209-071-451-101                              |                       |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A2101 BRACE ASSEMBLY               |                       |                                 |
|  |                    |                    |                                    |             |                       | 209-071-451-107                              |                       |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A210101 BRACE ASSEMBLY             |                       |                                 |
|  |                    |                    |                                    |             |                       | 209-071-501-101                              |                       |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A2102 BASE ASSEMBLY                |                       |                                 |
|  |                    |                    |                                    |             |                       | 209-071-451-105                              |                       |                                 |
|  |                    |                    |                                    |             |                       | GROUP 9307A2103 SUPPORT, VERTICAL            |                       |                                 |
|  |                    |                    |                                    |             |                       | 209-071-451-103                              |                       |                                 |
| C-11                                     | 1                  | PAFFF              | 4931-01-084-3735                   | 97499       | 209-071-451-107       | BRACE ASSEMBLY                               | EA                    | 1                               |
| C-11                                     | 2                  | PAFZZ              | 5340-01-118-8931                   | 80205       | NAS1356C5C27D         | .PIN, QUICK RELEASE                          | EA                    | 5                               |
| C-11                                     | 3                  | PAFFF              | 4931-01-102-5300                   | 97499       | 209-071-501-101       | .BRACE ASSEMBLY                              | EA                    | 1                               |
| C-11                                     | 4                  | PAFZZ              | 5310-00-550-5009                   | 96906       | MS15795-704           | .WASHER, FLAT                                | EA                    | 1                               |
| C-11                                     | 5                  | PAFZZ              | 5320-00-582-3495                   | 96906       | MS20600AD4W6          | .RIVET, BLIND                                | EA                    | 5                               |
| C-11                                     | 6                  | PAFZZ              | 4010-01-084-3859                   | 97499       | 30-137-4S-080         | .CHAIN ASSEMBLY, SINGLF LEO                  | EA                    | 5                               |
| C-11                                     | 7                  | XAFZZ              |                                    | 97499       | 209-071-501-103       | .BRACE                                       | EA                    | 1                               |
| C-11                                     | 8                  | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                       | EA                    | 1                               |
| C-11                                     | 9                  | PAFFF              | 4931-01-084-3767                   | 97499       | 209-071-451-105       | BASE ASSEMBLY                                | EA                    | 1                               |
| C-11                                     | 10                 | PAFZZ              | 5310-00-807-1477                   | 96906       | MS21042L6             | .NUT, SELF-LOCKING, EXTENDED WASHER, HEXAGON | EA                    | 16                              |
| C-11                                     | 11                 | PAFZZ              | 5310-00-187-2400                   | 88044       | AN960PD616            | .WASHER, FLAT                                | EA                    | 16                              |
| C-11                                     | 12                 | PAFZZ              | 5310-00-773-7618                   | 96906       | MS15795-814           | .WASHER, FLAT                                | EA                    | 16                              |
| C-11                                     | 13                 | PAFZZ              | 5306-00-151-1341                   | 88044       | AN6-10                | .BOLT, MACHINE                               | EA                    | 16                              |
| C-11                                     | 14                 | PAFZZ              | 5340-01-117-4529                   | 17999       | 83T-DUC515HR          | .CASTER, RIGID                               | EA                    | 2                               |
| C-11                                     | 15                 | PAFZZ              | 5340-01-117-3715                   | 17999       | 83T-DUC515H           | .CASTER, SWIVEL                              | EA                    | 2                               |
| C-11                                     | 16                 | XAFZZ              |                                    | 97499       | 209-071-452-101       | .BASE ASSEMBLY                               | EA                    | 1                               |
| C-11                                     | 17                 | XAFZZ              |                                    | 97499       | 209-071-452-103       | .FRAME ASSEMBLY                              | EA                    | 1                               |
| C-11                                     | 18                 | PAFZZ              | 5325-00-923-9512                   | 96906       | MS21266-4N            | .GROMMET, NONMETALLIC PLASTIC                | EA                    | 3                               |
| C-11                                     | 19                 | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | MARKER, IDENTIFICATION                       | EA                    | 1                               |
| C-11                                     | 20                 | PAFDD              | 4931-01-084-3766                   | 97499       | 209-071-451-103       | SUPPORT, VERTICAL                            | EA                    | 1                               |
| C-11                                     | 21                 | XAFZZ              |                                    | 97499       | 209-071-500-101       | .SUPPORT ASSEMBLY                            | EA                    | 1                               |
| C-11                                     | 22                 | XAFZZ              |                                    | 96906       | MS15795-702           | .WASHER, FLAT                                | EA                    | 4                               |
| C-11                                     | 23                 | PADZZ              | 5340-00-290-4504                   | 96906       | MS122125              | .INSERT, SCREW THREAD                        | EA                    | 2                               |
| C-11                                     | 24                 | PAFZZ              | 5325-00-783-4754                   | 96906       | MS21266-5N            | .GROMMET, NONMETALLIC                        | EA                    | 2                               |
| C-11                                     | 25                 | XAFZZ              |                                    | 97499       | 209-071-500-103       | .FRAME ASSEMBLY                              | EA                    | 1                               |
| C-11                                     | 26                 | PADZZ              | 7690-01-084-3884                   | 97499       | 100-089-2M            | .MARKER, IDENTIFICATION                      | EA                    | 2                               |
| C-11                                     | 27                 | PAFZZ              | 4931-01-096-4466                   | 97499       | 209-071-514-101       | SHELF ASSEMBLY                               | EA                    | 1                               |
| C-11                                     | 28                 | PAFZZ              | 5355-01-084-3854                   | 97499       | 209-071-413-101       | .KNOB  | EA                    | 2                               |
| C-11                                     | 29                 | PAFZZ              | 5305-00-839-6853                   | 88044       | AN565FC1032H16        | SETSCREW                                     | EA                    | 2                               |
| C-11                                     | 30                 | PAFZZ              | 5306-00-286-1361                   | 80205       | NAS428-4-10           | BOLT, MACHINE                                | EA                    | 2                               |
| C-11                                     | 31                 | PAFZZ              | 5306-00-831-4445                   | 80205       | NAS428-6-10           | BOLT   | EA                    | 1                               |
| C-11                                     | 32                 | PADZZ              | 4931-01-130-1512                   | 97499       | 209-071-500-107       | PLATE  | EA                    | 2                               |

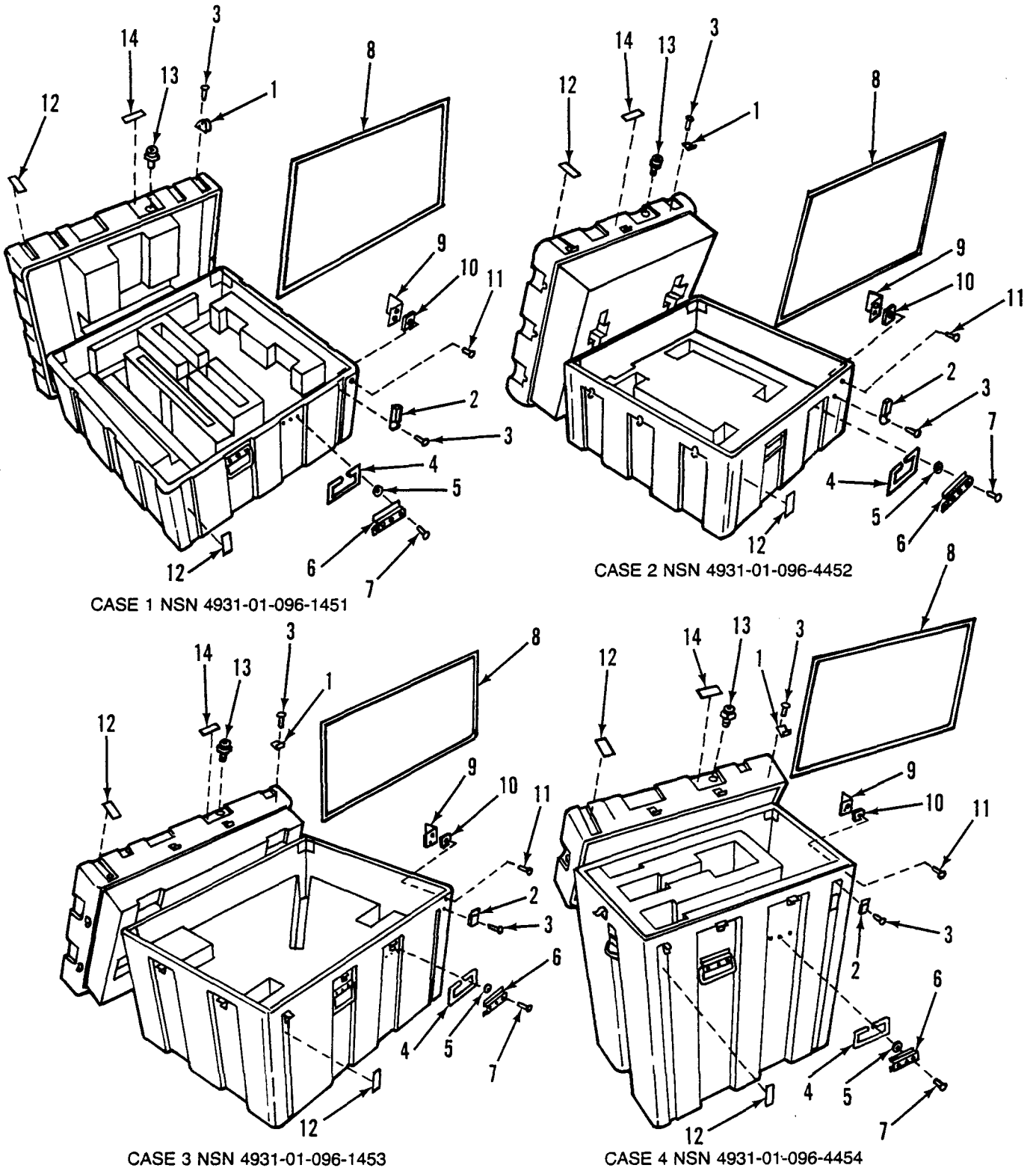
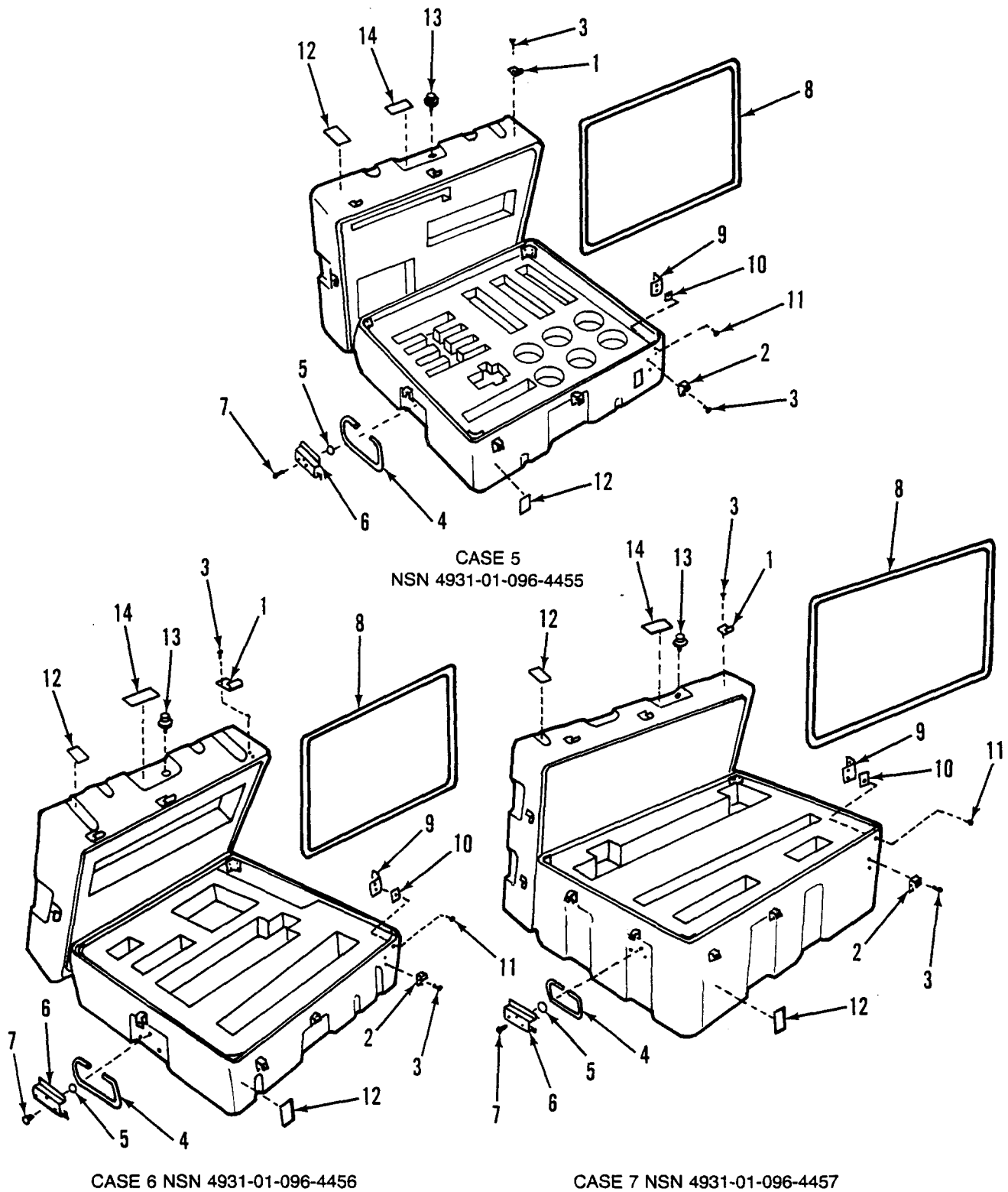


Figure C-12. Case Assembly, Transportation, Group 9307B thru Group 9307H (Sheet 1 of 2)

ARR82-0013



ARR82-0014

Figure C-12. Case Assembly, Transportation, Group 9307B thru Group 9307H (Sheet 2 of 2)

| (1)<br>ILLUSTRATION<br>(a)<br>FIG<br>NO. | (2)<br>(b)<br>ITEM<br>NO. | (3)<br>SMR<br>CODE | (3)<br>NATIONAL<br>STOCK<br>NUMBER | (4)<br>FSCM | (5)<br>PART<br>NUMBER | (6)<br>DESCRIPTION<br>USABLE ON CODE                        | (7)<br>U/M | (8)<br>QTY<br>INC<br>IN<br>UNIT |
|--|---------------------------|--------------------|------------------------------------|-------------|-----------------------|---|------------|---------------------------------|
|  |                           |                    |                                    |             |                       | GROUP 9307B CASE ASSEMBLY TRANSPORTATION<br>209-071-505-101 |            |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307C CASE ASSEMBLY TRANSPORTATION<br>209-071-505-103 |            |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307D CASE ASSEMBLY TRANSPORTATION<br>209-071-504-101 |            |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307E CASE ASSEMBLY TRANSPORTATION<br>209-071-517-101 |            |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307F CASE ASSEMBLY TRANSPORTATION<br>209-071-503-101 |            |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307G CASE ASSEMBLY TRANSPORTATION<br>209-071-503-103 |            |                                 |
|  |                           |                    |                                    |             |                       | GROUP 9307H CASE ASSEMBLY TRANSPORTATION<br>209-071-506-101 |            |                                 |
| C-12                                     | 1                         | PAFZZ              | 5340-01-118-5926                   | 11214       | BP21-299-5            | LATCH, HALF   | EA         | 12                              |
| C-12                                     | 2                         | PAFZZ              | 5340-01-116-8186                   | 11214       | BP21-430              | LATCH, HALF   | EA         | 12                              |
| C-12                                     | 3                         | PAFZZ              | 5320-01-043-0673                   | 73057       | SSD42RS               | RIVET, BLIND  | EA         | 48                              |
| C-12                                     | 4                         | PAFZZ              | 5340-00-163-2639                   | 11214       | BP21-111-1            | HANDLE  | EA         | 4                               |
| C-12                                     | 5                         | PAFZZ              | 4931-01-096-4468                   | 11214       | BP21-128              | O-RING  | EA         | 4                               |
| C-12                                     | 6                         | PAFZZ              |                                    | 02697       | 2-008                 | GASKET  | EA         | 12                              |
| C-12                                     | 7                         | PAFZZ              | 5320-00-882-8385                   | 07707       | AD66H                 | RIVET, BLIND  | EA         | 12                              |
| C-12                                     | 8                         | MFFZZ              |                                    | 11214       | AP21-273              | GASKET, NEOSPONGE (MANUFACTURE FROM 5330-00-580-4515)       | FT         | 1                               |
| C-12                                     | 9                         | PAFZZ              | 4931-01-096-4469                   | 11214       | BP21-269-3            | STOP, ANTI-SHEAR  | EA         | 4                               |
| C-12                                     | 10                        | PAFZZ              |                                    | 10054       | SS-6                  | WASHER, SQUARE  | EA         | 16                              |
| C-12                                     | 11                        | PAFZZ              | 5320-00-850-3241                   | 07707       | SD66BS                | RIVET, BLIND  | EA         | 16                              |
| C-12                                     | 12                        | PAFZZ              | 7690-01-115-1638                   | 11214       | BP21-313              | DECAL, FRONT  | EA         | 2                               |
| C-12                                     | 13                        | PAFZZ              | 4820-01-090-4909                   | 08992       | TA330-13414           | VALVE, PRESSURE EQUA  | EA         | 1                               |
| C-12                                     | 14                        | PAFZZ              | 7690-01-115-1639                   | 11214       | BP21-433              | DECAL, PRESS  | EA         | 1                               |

| (1)<br>ILLUSTRATION |                    | (2)         | (3)                         | (4)   | (5)                     | (6)   | (7)            | (8)                      |
|---------------------|--------------------|-------------|-----------------------------|-------|-------------------------|---|----------------|--------------------------|
| (a)<br>FIG<br>NO    | (b)<br>ITEM<br>NO. | SMR<br>CODE | NATIONAL<br>STOCK<br>NUMBER | FSCM  | PART<br>NUMBER          | DESCRIPTION                                 | USABLE ON CODE | QTY<br>INC<br>IN<br>UNIT |
| BULK                |                    | PAFZZ       | 5330-00-580-4515            | 81349 | MILR6130TYPE2GRA<br>DEB | GROUP 9999 BULK ISSUE<br>RUBBER STRIP ..... |                |                          |

**SECTION III. SPECIAL TOOLS LIST**

NO SPECIAL TOOLS ARE REQUIRED FOR BORESIGHT DEVICE.

SECTION IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

| STOCK NUMBER     | FIGURE NO. | ITEM NO. | STOCK NUMBER     | FIGURE NO. | ITEM NO. |
|------------------|------------|----------|------------------|------------|----------|
| 5306-00-023-7195 | C-4        | 1        | 5310-00-614-3552 | C-10       | 82       |
| 5306-00-023-7195 | C-5        | 1        | 5306-00-620-8294 | C-3        | 2        |
| 5306-00-023-7195 | C-6        | 1        | 5315-00-682-1727 | C-9        | 13       |
| 5305-00-054-6665 | C-10       | 73       | 5305-00-715-1237 | C-10       | 13       |
| 5305-00-054-6665 | C-10       | 81       | 5306-00-721-3534 | C-4        | 13       |
| 5315-00-060-4350 | C-10       | 1        | 5306-00-721-3534 | C-5        | 13       |
| 5120-00-117-3509 | C-10       | 75       | 5306-00-721-3534 | C-6        | 13       |
| 5120-00-117-3509 | C-10       | 83       | 5305-00-721-5899 | C-7        | 2        |
| 5306-00-150-9991 | C-7        | 3        | 5340-00-726-9819 | C-9        | 39       |
| 5306-00-151-0722 | C-7        | 7        | 5315-00-753-3894 | C-9        | 20       |
| 5306-00-151-1341 | C-11       | 13       | 5305-00-753-4416 | C-8        | 34       |
| 6240-00-155-7836 | C-9        | 50       | 5315-00-753-8539 | C-8        | 41       |
| 5306-00-156-2330 | C-10       | 31       | 5306-00-754-3048 | C-3        | 1        |
| 5340-00-163-2639 | C-12       | 4        | 5310-00-773-7618 | C-11       | 12       |
| 5310-00-167-0751 | C-7        | 4        | 5325-00-783-4754 | C-11       | 24       |
| 5310-00-167-0752 | C-10       | 45       | 5315-00-806-7040 | C-8        | 6        |
| 5310-00-167-0753 | C-10       | 8        | 5310-00-807-1474 | C-10       | 24       |
| 5310-00-167-0753 | C-3        | 23       | 5310-00-807-1474 | C-10       | 59       |
| 5310-00-167-0753 | C-8        | 17       | 5310-00-807-1474 | C-9        | 36       |
| 5310-00-167-0801 | C-10       | 25       | 5310-00-817-1475 | C-10       | 86       |
| 5310-00-167-0801 | C-10       | 61       | 5310-00-807-1475 | C-9        | 15       |
| 5310-00-167-0809 | C-8        | 2        | 5310-00-807-1477 | C-11       | 10       |
| 5306-00-182-1528 | C-8        | 29       | 5306-00-807-6894 | C-7        | 6        |
| 5310-00-183-4355 | C-8        | 13       | 5970-00-812-2967 | C-9        | 35       |
| 5310-00-183-4406 | C-10       | 26       | 5306-00-831-4445 | C-11       | 31       |
| 5310-00-183-4406 | C-10       | 62       | 5305-00-839-6853 | C-11       | 29       |
| 5310-00-183-4406 | C-9        | 37       | 5320-00-850-3241 | C-12       | 11       |
| 5310-00-184-9001 | C-8        | 30       | 5320-00-882-8385 | C-12       | 7        |
| 5310-00-187-2354 | C-10       | 87       | 1560-00-888-1097 | C-9        | 45       |
| 5310-00-187-2354 | C-3        | 3        | 5315-00-889-2517 | C-8        | 44       |
| 5310-00-187-2354 | C-4        | 2        | 5315-00-889-2610 | C-10       | 21       |
| 5310-00-187-2354 | C-5        | 2        | 5305-00-891-4682 | C-10       | 60       |
| 5310-00-187-2354 | C-6        | 2        | 5305-00-912-7307 | C-9        | 38       |
| 5310-00-187-2354 | C-7        | 8        | 5325-00-923-9512 | C-11       | 18       |
| 5310-00-187-2354 | C-9        | 16       | 5305-00-925-9674 | C-10       | 27       |
| 5310-00-187-2400 | C-10       | 4        | 5305-00-925-9674 | C-10       | 91       |
| 5310-00-187-2400 | C-11       | 11       | 5305-00-925-9678 | C-3        | 22       |
| 5310-00-187-2400 | C-4        | 5        | 5305-00-944-5929 | C-10       | 7        |
| 5310-00-187-2400 | C-5        | 5        | 5315-00-951-3215 | C-9        | 4        |
| 5310-00-187-2400 | C-6        | 5        | 5305-00-983-6652 | C-10       | 46       |
| 5935-00-189-2535 | C-9        | 32       | 5305-00-983-6658 | C-10       | 67       |
| 5935-00-189-2535 | C-9        | 41       | 5305-00-983-7430 | C-10       | 44       |
| 5310-00-208-7589 | C-8        | 20       | 5340-00-990-7158 | C-7        | 19       |
| 5310-00-268-6022 | C-10       | 38       | 5310-00-996-0135 | C-10       | 48       |
| 5306-00-286-1361 | C-11       | 30       | 5310-00-997-1888 | C-10       | 39       |
| 5340-00-286-6600 | C-3        | 6        | 5310-01-006-3919 | C-8        | 28       |
| 5340-00-286-6600 | C-4        | 21       | 5305-01-006-8979 | C-4        | 14       |
| 5340-00-286-6600 | C-5        | 21       | 5305-01-006-8979 | C-5        | 14       |
| 5340-00-286-6600 | C-6        | 21       | 5305-01-006-8979 | C-6        | 14       |
| 5340-00-290-4497 | C-3        | 13       | 5340-01-024-9030 | C-8        | 35       |
| 5340-00-290-4497 | C-3        | 27       | 5935-01-025-4360 | C-9        | 30       |
| 5340-00-290-4501 | C-9        | 25       | 5935-01-025-4360 | C-9        | 43       |
| 5340-00-290-4504 | C-11       | 23       | 3120-01-027-4729 | C-3        | 7        |
| 5340-00-291-3484 | C-9        | 5        | 3120-01-027-4729 | C-7        | 14       |
| 5310-00-297-8901 | C-8        | 26       | 3120-01-027-4729 | C-7        | 22       |
| 5310-00-306-3167 | C-8        | 27       | 5320-01-043-0673 | C-12       | 3        |
| 5305-00-477-4671 | C-8        | 15       | 4920-01-057-2596 | C-10       | 15       |
| 3460-00-499-6320 | C-10       | 76       | 5310-01-062-1061 | C-4        | 11       |
| 3460-00-499-6320 | C-10       | 84       | 5310-01-062-1061 | C-5        | 11       |
| 5940-00-502-8806 | C-9        | 33       | 5310-01-062-1061 | C-6        | 11       |
| 5310-00-550-5009 | C-11       | 4        | 5935-01-065-9281 | C-9        | 31       |
| 5306-00-558-9452 | C-8        | 24       | 4931-01-084-3725 | C-3        | 24       |
| 5305-00-576-6435 | C-10       | 47       | 4931-01-084-3726 | C-3        | 10       |
| 5305-00-576-6596 | C-4        | 10       | 4931-01-084-3728 | C-3        | 31       |
| 5305-00-576-6596 | C-5        | 10       | 4931-01-084-3730 | C-4        | 3        |
| 5305-00-576-6596 | C-6        | 10       | 4931-01-084-3731 | C-2        | 9        |
| 5310-00-579-0848 | C-4        | 4        | 4931-01-084-3732 | C-7        | 12       |
| 5310-00-579-0848 | C-5        | 4        | 4931-01-084-3733 | C-10       | 49       |
| 5310-00-579-0848 | C-6        | 4        | 4931-01-084-3734 | C-5        | 3        |
| 5330-00-580-4515 | BULK       |          | 4931-01-084-3735 | C-11       | 1        |
| 5320-00-582-3495 | C-11       | 5        | 4931-01-084-3736 | C-10       | 57       |
| 6210-00-583-9349 | C-9        | 42       | 4931-01-084-3737 | C-9        | 44       |
| 5340-00-594-7230 | C-7        | 20       | 4931-01-084-3738 | C-2        | 1        |
| 5340-00-594-7230 | C-7        | 21       | 4931-01-084-3739 | C-2        | 2        |
| 4920-00-595-5311 | C-2        | 30       | 4931-01-084-3740 | C-2        | 3        |
| 5310-00-596-9529 | C-8        | 1        | 4931-01-084-3741 | C-2        | 4        |
| 5340-00-597-3302 | C-3        | 20       | 4931-01-084-3742 | C-3        | 28       |
| 5340-00-597-3302 | C-8        | 40       | 4931-01-084-3744 | C-3        | 17       |
| 5340-00-597-3302 | C-8        | 43       | 4931-01-084-3748 | C-3        | 4        |

| STOCK NUMBER     | FIGURE NO. | ITEM NO. | STOCK NUMBER     | FIGURE NO. | ITEM NO. |
|------------------|------------|----------|------------------|------------|----------|
| 5306-00-023-7195 | C-4        | 1        | 5310-00-614-3552 | C-10       | 82       |
| 5306-00-023-7195 | C-5        | 1        | 5306-00-620-8294 | C-3        | 2        |
| 5306-00-023-7195 | C-6        | 1        | 5315-00-682-1727 | C-9        | 13       |
| 5305-00-054-6665 | C-10       | 73       | 5305-00-715-1237 | C-10       | 13       |
| 5305-00-054-6665 | C-10       | 81       | 5306-00-721-3534 | C-4        | 13       |
| 5315-00-060-4350 | C-10       | 1        | 5306-00-721-3534 | C-5        | 13       |
| 5120-00-117-3509 | C-10       | 75       | 5306-00-721-3534 | C-6        | 13       |
| 5120-00-117-3509 | C-10       | 83       | 5305-00-721-5899 | C-7        | 2        |
| 5306-00-150-9991 | C-7        | 3        | 5340-00-726-9819 | C-9        | 39       |
| 5306-00-151-0722 | C-7        | 7        | 5315-00-753-3894 | C-9        | 20       |
| 5306-00-151-1341 | C-11       | 13       | 5305-00-753-4416 | C-8        | 34       |
| 6240-00-155-7836 | C-9        | 50       | 5315-00-753-8539 | C-8        | 41       |
| 5306-00-156-2330 | C-10       | 31       | 5306-00-754-3048 | C-3        | 1        |
| 5340-00-163-2639 | C-12       | 4        | 5310-00-773-7618 | C-11       | 12       |
| 5310-00-167-0751 | C-7        | 4        | 5325-00-783-4754 | C-11       | 24       |
| 5310-00-167-0752 | C-10       | 45       | 5315-00-806-7040 | C-8        | 6        |
| 5310-00-167-0753 | C-10       | 8        | 5310-00-807-1474 | C-10       | 24       |
| 5310-00-167-0753 | C-3        | 23       | 5310-00-807-1474 | C-10       | 59       |
| 5310-00-167-0753 | C-8        | 17       | 5310-00-807-1474 | C-9        | 36       |
| 5310-00-167-0801 | C-10       | 25       | 5310-00-807-1475 | C-10       | 86       |
| 5310-00-167-0801 | C-10       | 61       | 5310-00-807-1475 | C-9        | 15       |
| 5310-00-167-0809 | C-8        | 2        | 5310-00-807-1477 | C-11       | 10       |
| 5306-00-182-1528 | C-8        | 29       | 5306-00-807-6894 | C-7        | 6        |
| 5310-00-183-4355 | C-8        | 13       | 5970-00-812-2967 | C-9        | 35       |
| 5310-00-183-4406 | C-10       | 26       | 5306-00-831-4445 | C-11       | 31       |
| 5310-00-183-4406 | C-10       | 62       | 5305-00-839-6853 | C-11       | 29       |
| 5310-00-183-4406 | C-9        | 37       | 5320-00-850-3241 | C-12       | 11       |
| 5310-00-184-9001 | C-8        | 30       | 5320-00-882-8385 | C-12       | 7        |
| 5310-00-187-2354 | C-10       | 87       | 1560-00-888-1097 | C-9        | 45       |
| 5310-00-187-2354 | C-3        | 3        | 5315-00-889-2517 | C-8        | 44       |
| 5310-00-187-2354 | C-4        | 2        | 5315-00-889-2610 | C-10       | 21       |
| 5310-00-187-2354 | C-5        | 2        | 5305-00-891-4682 | C-10       | 60       |
| 5310-00-187-2354 | C-6        | 2        | 5305-00-912-7307 | C-9        | 38       |
| 5310-00-187-2354 | C-7        | 8        | 5325-00-923-9512 | C-11       | 18       |
| 5310-00-187-2354 | C-9        | 16       | 5305-00-925-9674 | C-10       | 27       |
| 5310-00-187-2400 | C-10       | 4        | 5305-00-925-9674 | C-10       | 91       |
| 5310-00-187-2400 | C-11       | 11       | 5305-00-925-9678 | C-3        | 22       |
| 5310-00-187-2400 | C-4        | 5        | 5305-00-944-5929 | C-10       | 7        |
| 5310-00-187-2400 | C-5        | 5        | 5315-00-951-3215 | C-9        | 4        |
| 5310-00-187-2400 | C-6        | 5        | 5305-00-983-6652 | C-10       | 46       |
| 5935-00-189-2535 | C-9        | 32       | 5305-00-983-6658 | C-10       | 67       |
| 5935-00-189-2535 | C-9        | 41       | 5305-00-983-7430 | C-10       | 44       |
| 5310-00-208-7589 | C-8        | 20       | 5340-00-990-7158 | C-7        | 19       |
| 5310-00-268-6022 | C-10       | 38       | 5310-00-996-0135 | C-10       | 48       |
| 5306-00-286-1361 | C-11       | 30       | 5310-00-997-1888 | C-10       | 39       |
| 5340-00-286-6600 | C-3        | 6        | 5310-01-006-3919 | C-8        | 28       |
| 5340-00-286-6600 | C-4        | 21       | 5305-01-006-8979 | C-4        | 14       |
| 5340-00-286-6600 | C-5        | 21       | 5305-01-006-8979 | C-5        | 14       |
| 5340-00-286-6600 | C-6        | 21       | 5305-01-006-8979 | C-6        | 14       |
| 5340-00-290-4497 | C-3        | 13       | 5340-01-024-9030 | C-8        | 35       |
| 5340-00-290-4497 | C-3        | 27       | 5935-01-025-4360 | C-9        | 30       |
| 5340-00-290-4501 | C-9        | 25       | 5935-01-025-4360 | C-9        | 43       |
| 5340-00-290-4504 | C-11       | 23       | 3120-01-027-4729 | C-3        | 7        |
| 5340-00-291-3484 | C-9        | 5        | 3120-01-027-4729 | C-7        | 14       |
| 5310-00-297-8901 | C-8        | 26       | 3120-01-027-4729 | C-7        | 22       |
| 5310-00-306-3167 | C-8        | 27       | 5320-01-043-0673 | C-12       | 3        |
| 5305-00-477-4671 | C-8        | 15       | 4920-01-057-2596 | C-10       | 15       |
| 3460-00-499-6320 | C-10       | 76       | 5310-01-062-1061 | C-4        | 11       |
| 3460-00-499-6320 | C-10       | 84       | 5310-01-062-1061 | C-5        | 11       |
| 5940-00-502-8806 | C-9        | 33       | 5310-01-062-1061 | C-6        | 11       |
| 5310-00-550-5009 | C-11       | 4        | 5935-01-065-9281 | C-9        | 31       |
| 5306-00-558-9452 | C-8        | 24       | 4931-01-084-3725 | C-3        | 24       |
| 5305-00-576-6435 | C-10       | 47       | 4931-01-084-3726 | C-3        | 10       |
| 5305-00-576-6596 | C-4        | 10       | 4931-01-084-3728 | C-3        | 31       |
| 5305-00-576-6596 | C-5        | 10       | 4931-01-084-3730 | C-4        | 3        |
| 5305-00-576-6596 | C-6        | 10       | 4931-01-084-3731 | C-2        | 9        |
| 5310-00-579-0848 | C-4        | 4        | 4931-01-084-3732 | C-7        | 12       |
| 5310-00-579-0848 | C-5        | 4        | 4931-01-084-3733 | C-10       | 49       |
| 5310-00-579-0848 | C-6        | 4        | 4931-01-084-3734 | C-5        | 3        |
| 5330-00-580-4515 | BULK       |          | 4931-01-084-3735 | C-11       | 1        |
| 5320-00-582-3495 | C-11       | 5        | 4931-01-084-3736 | C-10       | 57       |
| 6210-00-583-9349 | C-9        | 42       | 4931-01-084-3737 | C-9        | 44       |
| 5340-00-594-7230 | C-7        | 20       | 4931-01-084-3738 | C-2        | 1        |
| 5340-00-594-7230 | C-7        | 21       | 4931-01-084-3739 | C-2        | 2        |
| 4920-00-595-5311 | C-2        | 30       | 4931-01-084-3740 | C-2        | 3        |
| 5310-00-596-9529 | C-8        | 1        | 4931-01-084-3741 | C-2        | 4        |
| 5340-00-597-3302 | C-3        | 20       | 4931-01-084-3742 | C-3        | 28       |
| 5340-00-597-3302 | C-8        | 40       | 4931-01-084-3744 | C-3        | 14       |
| 5340-00-597-3302 | C-8        | 43       | 4931-01-084-3746 | C-3        | 17       |
| 5310-00-614-3552 | C-10       | 74       | 4931-01-084-3748 | C-3        | 4        |



| STOCK NUMBER     | FIGURE NO. | ITEM NO. | STOCK NUMBER     | FIGURE NO. | ITEM NO. |
|------------------|------------|----------|------------------|------------|----------|
| 4931-01-084-3751 | C-1        | 1        | 5310-01-084-3865 | C-7        | 5        |
| 4931-01-084-3752 | C-10       | 10       | 3040-01-084-3866 | C-4        | 17       |
| 4931-01-084-3754 | C-2        | 18       | 3040-01-084-3866 | C-5        | 17       |
| 4931-01-084-3756 | C-2        | 22       | 3040-01-084-3866 | C-6        | 17       |
| 4931-01-084-3757 | C-10       | 16       | 5310-01-084-3867 | C-10       | 29       |
| 4931-01-084-3758 | C-10       | 14       | 5310-01-084-3867 | C-10       | 58       |
| 4931-01-084-3759 | C-2        | 23       | 5310-01-084-3868 | C-3        | 9        |
| 4931-01-084-3765 | C-2        | 29       | 5310-01-084-3868 | C-7        | 17       |
| 4931-01-084-3766 | C-11       | 20       | 5310-01-084-3869 | C-4        | 19       |
| 4931-01-084-3767 | C-11       | 9        | 5310-01-084-3869 | C-5        | 19       |
| 4931-01-084-3770 | C-10       | 9        | 5310-01-084-3869 | C-6        | 19       |
| 4931-01-084-3773 | C-2        | 8        | 5310-01-084-3869 | C-7        | 16       |
| 4931-01-084-3775 | C-2        | 16       | 5307-01-084-3870 | C-8        | 37       |
| 4931-01-084-3778 | C-2        | 17       | 5307-01-084-3871 | C-8        | 32       |
| 5220-01-084-3779 | C-2        | 15       | 5340-01-084-3872 | C-9        | 47       |
| 4931-01-084-3780 | C-2        | 13       | 5340-01-084-3873 | C-8        | 25       |
| 4931-01-084-3781 | C-9        | 21       | 5365-01-084-3874 | C-2        | 26       |
| 4931-01-084-3782 | C-9        | 23       | 5365-01-084-3875 | C-2        | 27       |
| 4931-01-084-3784 | C-2        | 19       | 5365-01-084-3876 | C-2        | 28       |
| 4931-01-084-3785 | C-10       | 51       | 5305-01-084-3877 | C-10       | 40       |
| 4931-01-084-3787 | C-10       | 41       | 4931-01-084-3879 | C-10       | 35       |
| 4931-01-084-3788 | C-10       | 52       | 4931-01-084-3879 | C-10       | 64       |
| 4931-01-084-3790 | C-10       | 50       | 4931-01-084-3881 | C-8        | 46       |
| 4931-01-084-3791 | C-2        | 11       | 5935-01-084-3882 | C-9        | 48       |
| 4931-01-084-3792 | C-9        | 3        | 7690-01-084-3884 | C-10       | 20       |
| 4931-01-084-3796 | C-6        | 16       | 7690-01-084-3884 | C-10       | 37       |
| 4931-01-084-3797 | C-4        | 16       | 7690-01-084-3884 | C-10       | 55       |
| 4931-01-084-3797 | C-5        | 16       | 7690-01-084-3884 | C-10       | 94       |
| 4931-01-084-3798 | C-4        | 6        | 7690-01-084-3884 | C-11       | 8        |
| 4931-01-084-3800 | C-4        | 18       | 7690-01-084-3884 | C-11       | 19       |
| 4931-01-084-3802 | C-5        | 18       | 7690-01-084-3884 | C-11       | 26       |
| 4931-01-084-3804 | C-6        | 3        | 7690-01-084-3884 | C-2        | 7        |
| 4931-01-084-3805 | C-6        | 6        | 7690-01-084-3884 | C-3        | 34       |
| 4931-01-084-3807 | C-6        | 18       | 7690-01-084-3884 | C-4        | 23       |
| 4931-01-084-3810 | C-5        | 6        | 7690-01-084-3884 | C-5        | 23       |
| 4931-01-084-3813 | C-7        | 15       | 7690-01-084-3884 | C-6        | 23       |
| 4931-01-084-3814 | C-2        | 21       | 7690-01-084-3884 | C-7        | 24       |
| 4931-01-084-3816 | C-8        | 42       | 7690-01-084-3884 | C-8        | 9        |
| 4931-01-084-3817 | C-8        | 39       | 7690-01-084-3884 | C-9        | 8        |
| 4931-01-084-3818 | C-8        | 21       | 7690-01-084-3884 | C-9        | 10       |
| 4931-01-084-3820 | C-8        | 22       | 7690-01-084-3884 | C-9        | 22       |
| 5340-01-084-3821 | C-8        | 19       | 7690-01-084-3884 | C-9        | 28       |
| 4931-01-084-3822 | C-8        | 14       | 5307-01-084-3885 | C-9        | 17       |
| 4931-01-084-3823 | C-8        | 36       | 4931-01-084-3886 | C-9        | 2        |
| 4931-01-084-3825 | C-8        | 31       | 4931-01-085-1528 | C-10       | 5        |
| 4931-01-084-3827 | C-8        | 18       | 5365-01-085-1540 | C-2        | 25       |
| 4931-01-084-3828 | C-2        | 12       | 3120-01-085-8521 | C-10       | 12       |
| 4931-01-084-3830 | C-2        | 20       | 3120-01-085-8521 | C-10       | 19       |
| 4931-01-084-3831 | C-10       | 93       | 3120-01-085-8521 | C-10       | 54       |
| 4931-01-084-3832 | C-10       | 90       | 3120-01-085-8521 | C-3        | 12       |
| 4931-01-084-3833 | C-10       | 34       | 3120-01-085-8521 | C-3        | 16       |
| 4931-01-084-3833 | C-10       | 63       | 3120-01-085-8521 | C-3        | 19       |
| 4931-01-084-3835 | C-10       | 28       | 3120-01-085-8521 | C-3        | 26       |
| 4931-01-084-3835 | C-10       | 92       | 3120-01-085-8521 | C-3        | 30       |
| 4931-01-084-3841 | C-9        | 40       | 3120-01-085-8521 | C-3        | 33       |
| 5970-01-084-3843 | C-9        | 46       | 3120-01-085-8521 | C-4        | 8        |
| 5306-01-084-3844 | C-10       | 32       | 3120-01-085-8521 | C-5        | 8        |
| 5306-01-084-3844 | C-10       | 66       | 3120-01-085-8521 | C-6        | 8        |
| 5306-01-084-3845 | C-10       | 33       | 3120-01-085-8521 | C-7        | 11       |
| 5306-01-084-3845 | C-10       | 89       | 3120-01-085-8521 | C-8        | 11       |
| 5306-01-084-3846 | C-10       | 85       | 3120-01-085-8521 | C-9        | 6        |
| 5355-01-084-3847 | C-10       | 6        | 3120-01-085-8521 | C-9        | 11       |
| 5355-01-084-3848 | C-10       | 2        | 3120-01-085-8521 | C-9        | 26       |
| 5355-01-084-3849 | C-2        | 10       | 3120-01-085-8521 | C-9        | 27       |
| 5355-01-084-3850 | C-8        | 47       | 5310-01-087-7234 | C-9        | 49       |
| 5355-01-084-3851 | C-8        | 45       | 4820-01-090-4909 | C-12       | 13       |
| 5355-01-084-3852 | C-9        | 1        | 4931-01-090-5813 | C-2        | 5        |
| 5355-01-084-3853 | C-2        | 24       | 4931-01-090-5814 | C-6        | 9        |
| 5355-01-084-3854 | C-11       | 28       | 4931-01-090-5815 | C-4        | 9        |
| 5355-01-084-3854 | C-8        | 12       | 4931-01-090-5815 | C-5        | 9        |
| 5340-01-084-3856 | C-10       | 88       | 4931-01-090-5816 | C-4        | 15       |
| 5340-01-084-3857 | C-10       | 68       | 4931-01-090-5816 | C-5        | 15       |
| 5315-01-084-3858 | C-10       | 17       | 4931-01-090-5816 | C-6        | 15       |
| 4010-01-084-3859 | C-11       | 6        | 4931-01-096-4451 | C-1        | 2        |
| 3120-01-084-3862 | C-9        | 12       | 4931-01-096-4452 | C-1        | 3        |
| 3120-01-084-3863 | C-3        | 5        | 4931-01-096-4453 | C-1        | 4        |
| 3120-01-084-3863 | C-5        | 20       | 4931-01-096-4454 | C-1        | 5        |
| 3120-01-084-3863 | C-6        | 20       | 4931-01-096-4455 | C-1        | 6        |
| 3120-01-084-3864 | C-4        | 20       | 4931-01-096-4456 | C-1        | 7        |
| 3120-01-084-3864 | C-7        | 18       | 4931-01-096-4457 | C-1        | 8        |

| STOCK NUMBER     | FIGURE NO. | ITEM NO. | STOCK NUMBER     | FIGURE NO. | ITEM NO. |
|------------------|------------|----------|------------------|------------|----------|
| 4931-01-096-4459 | C-7        | 9        | 5305-01-116-8947 | C-9        | 19       |
| 4931-01-096-4462 | C-10       | 69       | 5340-01-117-3715 | C-11       | 15       |
| 4931-01-096-4463 | C-10       | 78       | 5315-01-117-4333 | C-10       | 3        |
| 4931-01-096-4464 | C-10       | 77       | 5340-01-117-4529 | C-11       | 14       |
| 4931-01-096-4466 | C-11       | 27       | 6145-01-117-7465 | C-9        | 34       |
| 4931-01-096-4467 | C-8        | 4        | 5355-01-117-9466 | C-8        | 3        |
| 4931-01-096-4468 | C-12       | 5        | 5340-01-118-5926 | C-12       | 1        |
| 4931-01-096-4469 | C-12       | 9        | 5340-01-118-8931 | C-11       | 2        |
| 4931-01-102-5300 | C-11       | 3        | 5340-01-120-1573 | C-10       | 56       |
| 5310-01-107-3572 | C-4        | 12       | 5315-01-120-3398 | C-8        | 8        |
| 5310-01-107-3572 | C-5        | 12       | 4931-01-122-1690 | C-10       | 70       |
| 5310-01-107-3572 | C-6        | 12       | 4931-01-130-1512 | C-11       | 32       |
| 5310-01-107-3572 | C-7        | 1        | 4931-01-133-7455 | C-8        | 5        |
| 4931-01-114-3041 | C-8        | 7        | 6920-01-135-2129 | C-3        | 21       |
| 7690-01-115-1638 | C-12       | 12       | 5306-01-137-7628 | C-10       | 43       |
| 7690-01-115-1639 | C-12       | 14       | 4931-01-138-7380 | C-2        | 14       |
| 5340-01-116-8186 | C-12       | 2        | 4931-01-139-7387 | C-10       | 72       |

| FSCM  | PART NUMBER    | FIGURE NO. | ITEM NO. | FSCM  | PART NUMBER         | FIGURE NO. | ITEM NO. |
|-------|----------------|------------|----------|-------|---------------------|------------|----------|
| 07707 | AD66H          | C-12       | 7        | 11214 | BP21-269-3          | C-12       | 9        |
| 88044 | AN3C11A        | C-10       | 31       | 11214 | BP21-299-5          | C-12       | 1        |
| 88044 | AN315-3        | C-4        | 11       | 11214 | BP21-313            | C-12       | 12       |
| 88044 | AN315-3        | C-5        | 11       | 11214 | BP21-430            | C-12       | 2        |
| 88044 | AN315-3        | C-6        | 11       | 11214 | BP21-433            | C-12       | 14       |
| 88044 | AN315C-3R      | C-10       | 38       | 99862 | CL-42-KA-008-16L    | C-10       | 57       |
| 88044 | AN315C12R      | C-8        | 1        | 99862 | CL-51-KP-6-5-3LR    | C-10       | 9        |
| 88044 | AN316-4        | C-4        | 12       | 99862 | CL316112FC          | C-10       | 76       |
| 88044 | AN316-4        | C-5        | 12       | 99862 | CL316112FC          | C-10       | 84       |
| 88044 | AN316-4        | C-6        | 12       | 99862 | CL51TC              | C-10       | 75       |
| 88044 | AN316-4        | C-7        | 1        | 99862 | CL51TC              | C-10       | 83       |
| 88044 | AN316-4R       | C-8        | 20       | 81349 | MILR6130TYPE2GRADEB | BULK       |          |
| 88044 | AN316-6        | C-4        | 4        | 96906 | MS122125            | C-11       | 23       |
| 88044 | AN316-6        | C-5        | 4        | 96906 | MS122161            | C-7        | 20       |
| 88044 | AN316-6        | C-6        | 4        | 96906 | MS122161            | C-7        | 21       |
| 88044 | AN316-8R       | C-8        | 26       | 96906 | MS122165            | C-7        | 19       |
| 88044 | AN4H10         | C-8        | 29       | 96906 | MS124656            | C-3        | 6        |
| 88044 | AN4H32         | C-8        | 24       | 96906 | MS124656            | C-4        | 21       |
| 88044 | AN520BOR4      | C-10       | 47       | 96906 | MS124656            | C-5        | 21       |
| 88044 | AN565FC1032H16 | C-11       | 29       | 96906 | MS124656            | C-6        | 21       |
| 88044 | AN565F1032H12  | C-4        | 10       | 96906 | MS124695            | C-3        | 20       |
| 88044 | AN565F1032H12  | C-5        | 10       | 96906 | MS124695            | C-8        | 40       |
| 88044 | AN565F1032H12  | C-6        | 10       | 96906 | MS124695            | C-8        | 43       |
| 88044 | AN565F428H16   | C-7        | 2        | 96906 | MS124696            | C-9        | 5        |
| 81352 | AN565F428H9    | C-4        | 14       | 96906 | MS124736            | C-3        | 13       |
| 81352 | AN565F428H9    | C-5        | 14       | 96906 | MS124736            | C-3        | 27       |
| 81352 | AN565F428H9    | C-6        | 14       | 96906 | MS124816            | C-9        | 25       |
| 88044 | AN6-10         | C-11       | 13       | 96906 | MS14104-8           | C-3        | 7        |
| 88044 | AN8-11         | C-7        | 3        | 96906 | MS14104-8           | C-7        | 14       |
| 88044 | AN960C10       | C-10       | 25       | 96906 | MS14104-8           | C-7        | 22       |
| 88044 | AN960C10       | C-10       | 61       | 96906 | MS15795-701         | C-10       | 48       |
| 88044 | AN960C1216     | C-8        | 2        | 96906 | MS15795-702         | C-11       | 22       |
| 88044 | AN960C616L     | C-8        | 13       | 96906 | MS15795-704         | C-11       | 4        |
| 88044 | AN960C816L     | C-8        | 27       | 96906 | MS15795-814         | C-11       | 12       |
| 88044 | AN960D10L      | C-10       | 45       | 96906 | MS16555-619         | C-10       | 21       |
| 88044 | AN960PD10      | C-10       | 26       | 96906 | MS16555-620         | C-8        | 6        |
| 88044 | AN960PD10      | C-10       | 62       | 96906 | MS16555-625         | C-9        | 13       |
| 88044 | AN960PD10      | C-9        | 37       | 96906 | MS16555-648         | C-9        | 4        |
| 88044 | AN960PD10L     | C-10       | 8        | 96906 | MS16556-27          | C-8        | 41       |
| 88044 | AN960PD10L     | C-3        | 23       | 96906 | MS16556-620         | C-10       | 1        |
| 88044 | AN960PD10L     | C-8        | 17       | 81349 | MS16556-631         | C-8        | 44       |
| 88044 | AN960PD416     | C-10       | 87       | 96906 | MS16556-665         | C-10       | 3        |
| 88044 | AN960PD416     | C-3        | 3        | 96906 | MS16562-238         | C-9        | 20       |
| 88044 | AN960PD416     | C-4        | 2        | 96906 | MS16998-29          | C-10       | 46       |
| 88044 | AN960PD416     | C-5        | 2        | 96906 | MS16998-33          | C-10       | 44       |
| 88044 | AN960PD416     | C-6        | 2        | 96906 | MS16998-41          | C-10       | 67       |
| 88044 | AN960PD416     | C-7        | 8        | 96906 | MS16998-45L         | C-9        | 19       |
| 88044 | AN960PD416     | C-9        | 16       | 96906 | MS20073-04-05       | C-3        | 2        |
| 88044 | AN960PD416L    | C-8        | 30       | 96906 | MS20073-04-06       | C-3        | 1        |
| 88044 | AN960PD616     | C-10       | 4        | 96906 | MS20073-04-07       | C-4        | 1        |
| 88044 | AN960PD616     | C-11       | 11       | 96906 | MS20073-04-07       | C-5        | 1        |
| 88044 | AN960PD616     | C-4        | 5        | 96906 | MS20073-04-07       | C-6        | 1        |
| 88044 | AN960PD616     | C-5        | 5        | 96906 | MS20073-04-11       | C-7        | 6        |
| 88044 | AN960PD616     | C-6        | 5        | 96906 | MS20073-04-24       | C-7        | 7        |
| 88044 | AN960PD816     | C-7        | 4        | 96906 | MS20600AD4W6        | C-11       | 5        |
| 11214 | AP21-273       | C-12       | 8        | 96906 | MS21042L3           | C-10       | 24       |
| 11214 | DP21-111-1     | C-12       | 4        | 96906 | MS21042L3           | C-10       | 59       |
| 11214 | BP21-128       | C-12       | 5        | 96906 | MS21042L3           | C-9        | 36       |

| FSCM  | PART NUMBER     | FIGURE NO. | ITEM NO. | FSCM  | PART NUMBER     | FIGURE NO. | ITEM NO. |
|-------|-----------------|------------|----------|-------|-----------------|------------|----------|
| 96906 | MS21042L4       | C-10       | 86       | 97499 | 209-071-406-101 | C-8        | 21       |
| 96906 | MS21042L4       | C-9        | 15       | 97499 | 209-071-407-101 | C-8        | 19       |
| 96906 | MS21042L6       | C-11       | 10       | 97499 | 209-071-408-101 | C-2        | 12       |
| 96906 | MS21209F1-10P   | C-8        | 35       | 97499 | 209-071-408-103 | C-9        | 9        |
| 96906 | MS21266-4N      | C-11       | 18       | 97499 | 209-071-409-101 | C-2        | 20       |
| 96906 | MS21266-5N      | C-11       | 24       | 97499 | 209-071-410-101 | C-10       | 93       |
| 96906 | MS21919DQ3      | C-9        | 39       | 97499 | 209-071-411-101 | C-10       | 90       |
| 96906 | MS25041-5       | C-9        | 42       | 97499 | 209-071-412-101 | C-8        | 14       |
| 96906 | MS25181-2       | C-9        | 33       | 97499 | 209-071-413-101 | C-11       | 28       |
| 96906 | MS25237-327     | C-9        | 50       | 97499 | 209-071-413-101 | C-8        | 12       |
| 96906 | MS27039-1-06    | C-9        | 38       | 97499 | 209-071-414-101 | C-2        | 19       |
| 96906 | MS27039-1-07    | C-10       | 7        | 97499 | 209-071-415-101 | C-10       | 51       |
| 96906 | MS27039-1-10    | C-10       | 27       | 97499 | 209-071-416-101 | C-10       | 34       |
| 96906 | MS27039-1-10    | C-10       | 91       | 97499 | 209-071-416-101 | C-10       | 63       |
| 96906 | MS27039C1-04    | C-3        | 22       | 97499 | 209-071-416-103 | C-10       | 70       |
| 96906 | MS27039C1-19    | C-10       | 60       | 97499 | 209-071-416-105 | C-10       | 71       |
| 96906 | MS3417-12N      | C-9        | 30       | 97499 | 209-071-416-107 | C-10       | 36       |
| 96906 | MS3417-12N      | C-9        | 43       | 97499 | 209-071-416-107 | C-10       | 65       |
| 96906 | MS3471L12-3S    | C-9        | 31       | 97499 | 209-071-416-109 | C-10       | 35       |
| 96906 | MS3476L12-3P    | C-9        | 32       | 97499 | 209-071-416-109 | C-10       | 64       |
| 96906 | MS3476L12-3P    | C-9        | 41       | 97499 | 209-071-416-111 | C-10       | 72       |
| 96906 | MS35335-59      | C-10       | 74       | 97499 | 209-071-417-101 | C-10       | 68       |
| 96906 | MS35335-59      | C-10       | 82       | 97499 | 209-071-418-101 | C-10       | 49       |
| 96906 | MS35649-2252    | C-10       | 39       | 97499 | 209-071-419-101 | C-10       | 28       |
| 96906 | MS51023-54      | C-8        | 34       | 97499 | 209-071-419-101 | C-10       | 92       |
| 96906 | MS51859-10      | C-8        | 28       | 97499 | 209-071-420-101 | C-10       | 32       |
| 96906 | MS51957-40      | C-10       | 73       | 97499 | 209-071-420-101 | C-10       | 66       |
| 96906 | MS51957-40      | C-10       | 81       | 97499 | 209-071-420-103 | C-10       | 33       |
| 96906 | MS51981-28      | C-10       | 13       | 97499 | 209-071-420-103 | C-10       | 89       |
| 81349 | M23053/5-108-0  | C-9        | 35       | 97499 | 209-071-420-105 | C-10       | 85       |
| 81349 | M27500-20RB2T14 | C-9        | 34       | 97499 | 209-071-421-101 | C-10       | 41       |
| 80205 | NAS1333C3C085   | C-10       | 56       | 97499 | 209-071-421-103 | C-10       | 42       |
| 80205 | NAS1351-3-6     | C-8        | 15       | 97499 | 209-071-422-101 | C-3        | 28       |
| 80205 | NAS1351-3-8     | C-8        | 16       | 97499 | 209-071-422-103 | C-3        | 29       |
| 80205 | NAS1356C5C27D   | C-11       | 2        | 97499 | 209-071-423-101 | C-10       | 52       |
| 80205 | NAS428-4-10     | C-11       | 30       | 97499 | 209-071-423-103 | C-10       | 53       |
| 80205 | NAS428-6-10     | C-11       | 31       | 97499 | 209-071-424-101 | C-10       | 40       |
| 80205 | NAS428KH4-7     | C-4        | 13       | 97499 | 209-071-425-101 | C-8        | 36       |
| 80205 | NAS429KH4-7     | C-5        | 13       | 97499 | 209-071-426-101 | C-8        | 31       |
| 80205 | NAS428KH4-7     | C-6        | 13       | 97499 | 209-071-427-103 | C-8        | 22       |
| 07707 | SD66BS          | C-12       | 11       | 97499 | 209-071-428-101 | C-8        | 32       |
| 10054 | SS-6            | C-12       | 10       | 97499 | 209-071-429-101 | C-8        | 37       |
| 73057 | SSD42BS         | C-12       | 3        | 97499 | 209-071-430-101 | C-8        | 45       |
| 08992 | TA330-13414     | C-12       | 13       | 97499 | 209-071-431-101 | C-8        | 46       |
| 97499 | 100-089-2M      | C-10       | 20       | 97499 | 209-071-432-101 | C-2        | 10       |
| 97499 | 100-089-2M      | C-10       | 37       | 97499 | 209-071-433-101 | C-2        | 24       |
| 97499 | 100-089-2M      | C-10       | 55       | 97499 | 209-071-434-101 | C-2        | 11       |
| 97499 | 100-089-2M      | C-10       | 94       | 97499 | 209-071-435-101 | C-9        | 3        |
| 97499 | 100-089-2M      | C-11       | 8        | 97499 | 209-071-435-103 | C-9        | 7        |
| 97499 | 100-089-2M      | C-11       | 19       | 97499 | 209-071-436-101 | C-9        | 2        |
| 97499 | 100-089-2M      | C-11       | 26       | 97499 | 209-071-437-101 | C-9        | 1        |
| 97499 | 100-089-2M      | C-2        | 7        | 97499 | 209-071-439-105 | C-2        | 14       |
| 97499 | 100-089-2M      | C-3        | 34       | 97499 | 209-071-439-107 | C-9        | 29       |
| 97499 | 100-089-2M      | C-4        | 23       | 97499 | 209-071-440-101 | C-3        | 14       |
| 97499 | 100-089-2M      | C-5        | 23       | 97499 | 209-071-440-103 | C-3        | 15       |
| 97499 | 100-089-2M      | C-6        | 23       | 97499 | 209-071-441-101 | C-3        | 17       |
| 97499 | 100-089-2M      | C-7        | 24       | 97499 | 209-071-441-103 | C-3        | 18       |
| 97499 | 100-089-2M      | C-8        | 9        | 97499 | 209-071-442-101 | C-2        | 15       |
| 97499 | 100-089-2M      | C-9        | 8        | 97499 | 209-071-443-101 | C-10       | 79       |
| 97499 | 100-089-2M      | C-9        | 10       | 97499 | 209-071-443-103 | C-10       | 80       |
| 97499 | 100-089-2M      | C-9        | 22       | 97499 | 209-071-443-105 | C-10       | 78       |
| 97499 | 100-089-2M      | C-9        | 28       | 97499 | 209-071-444-101 | C-10       | 88       |
| 97499 | 130-005-8-3     | C-9        | 46       | 97499 | 209-071-445-105 | C-7        | 9        |
| 97499 | 140-009A32T40   | C-9        | 49       | 97499 | 209-071-445-107 | C-7        | 10       |
| 97499 | 140-009F33T48   | C-7        | 5        | 97499 | 209-071-446-101 | C-10       | 29       |
| 02697 | 2-008           | C-12       | 6        | 97499 | 209-071-446-101 | C-10       | 58       |
| 97499 | 209-071-275-1   | C-2        | 30       | 97499 | 209-071-447-101 | C-2        | 13       |
| 97499 | 209-071-400-101 | C-1        | 1        | 97499 | 209-071-448-101 | C-9        | 17       |
| 97499 | 209-071-400-103 | C-2        | 1        | 97499 | 209-071-449-101 | C-9        | 21       |
| 97499 | 209-071-400-105 | C-2        | 2        | 97499 | 209-071-450-101 | C-9        | 23       |
| 97499 | 209-071-400-107 | C-2        | 3        | 97499 | 209-071-450-103 | C-9        | 24       |
| 97499 | 209-071-400-109 | C-2        | 4        | 97499 | 209-071-451-101 | C-2        | 29       |
| 97499 | 209-071-400-111 | C-2        | 5        | 97499 | 209-071-451-103 | C-11       | 20       |
| 97499 | 209-071-400-113 | C-2        | 6        | 97499 | 209-071-451-105 | C-11       | 9        |
| 97499 | 209-071-401-101 | C-2        | 21       | 97499 | 209-071-451-107 | C-11       | 1        |
| 97499 | 209-071-401-103 | C-10       | 18       | 97499 | 209-071-452-101 | C-11       | 16       |
| 97499 | 209-071-402-103 | C-2        | 9        | 97499 | 209-071-452-103 | C-11       | 17       |
| 97499 | 209-071-403-103 | C-8        | 42       | 97499 | 209-071-453-101 | C-7        | 12       |
| 97499 | 209-071-404-101 | C-8        | 39       | 97499 | 209-071-453-103 | C-7        | 13       |
| 97499 | 209-071-405-101 | C-8        | 8        | 97499 | 209-071-454-101 | C-9        | 48       |

| FSCM  | PART NUMBER     | FIGURE NO. | ITEM NO. | FSCM  | PART NUMBER     | FIGURE NO. | ITEM NO. |
|-------|-----------------|------------|----------|-------|-----------------|------------|----------|
| 97499 | 209-071-455-101 | C-2        | 17       | 97499 | 209-071-496-101 | C-8        | 18       |
| 97499 | 209-071-456-101 | C-9        | 47       | 97499 | 209-071-497-103 | C-10       | 12       |
| 97499 | 209-071-457-101 | C-6        | 3        | 97499 | 209-071-497-103 | C-10       | 19       |
| 97499 | 209-071-458-101 | C-5        | 3        | 97499 | 209-071-497-103 | C-10       | 54       |
| 97499 | 209-071-459-101 | C-4        | 3        | 97499 | 209-071-497-103 | C-3        | 12       |
| 97499 | 209-071-460-101 | C-6        | 6        | 97499 | 209-071-497-103 | C-3        | 16       |
| 97499 | 209-071-460-103 | C-6        | 7        | 97499 | 209-071-497-103 | C-3        | 19       |
| 97499 | 209-071-461-101 | C-4        | 6        | 97499 | 209-071-497-103 | C-3        | 26       |
| 97499 | 209-071-461-103 | C-4        | 7        | 97499 | 209-071-497-103 | C-3        | 30       |
| 97499 | 209-071-462-101 | C-5        | 6        | 97499 | 209-071-497-103 | C-3        | 33       |
| 97499 | 209-071-462-103 | C-5        | 7        | 97499 | 209-071-497-103 | C-4        | 8        |
| 97499 | 209-071-465-101 | C-6        | 18       | 97499 | 209-071-497-103 | C-5        | 8        |
| 97499 | 209-071-465-103 | C-6        | 22       | 97499 | 209-071-497-103 | C-6        | 8        |
| 97499 | 209-071-466-101 | C-2        | 23       | 97499 | 209-071-497-103 | C-7        | 11       |
| 97499 | 209-071-467-101 | C-10       | 17       | 97499 | 209-071-497-103 | C-8        | 11       |
| 97499 | 209-071-468-101 | C-10       | 14       | 97499 | 209-071-497-103 | C-9        | 6        |
| 97499 | 209-071-469-101 | C-5        | 18       | 97499 | 209-071-497-103 | C-9        | 11       |
| 97499 | 209-071-469-103 | C-5        | 22       | 97499 | 209-071-497-103 | C-9        | 26       |
| 97499 | 209-071-470-101 | C-4        | 18       | 97499 | 209-071-497-103 | C-9        | 27       |
| 97499 | 209-071-470-103 | C-4        | 22       | 97499 | 209-071-498-101 | C-7        | 15       |
| 97499 | 209-071-471-101 | C-2        | 22       | 97499 | 209-071-498-103 | C-7        | 23       |
| 97499 | 209-071-472-101 | C-10       | 30       | 97499 | 209-071-499-101 | C-8        | 47       |
| 97499 | 209-071-473-101 | C-3        | 4        | 97499 | 209-071-500-101 | C-11       | 21       |
| 97499 | 209-071-473-103 | C-3        | 8        | 97499 | 209-071-500-103 | C-11       | 25       |
| 97499 | 209-071-474-101 | C-2        | 18       | 97499 | 209-071-500-107 | C-11       | 32       |
| 97499 | 209-071-475-101 | C-10       | 10       | 97499 | 209-071-501-101 | C-11       | 3        |
| 97499 | 209-071-475-103 | C-10       | 11       | 97499 | 209-071-501-103 | C-11       | 7        |
| 97499 | 209-071-476-101 | C-10       | 5        | 97499 | 209-071-502-101 | C-2        | 25       |
| 97499 | 209-071-477-101 | C-10       | 2        | 97499 | 209-071-502-103 | C-2        | 26       |
| 97499 | 209-071-478-101 | C-10       | 6        | 97499 | 209-071-502-105 | C-2        | 27       |
| 97499 | 209-071-479-101 | C-3        | 24       | 97499 | 209-071-502-107 | C-2        | 28       |
| 97499 | 209-071-479-103 | C-3        | 25       | 97499 | 209-071-503-101 | C-1        | 6        |
| 97499 | 209-071-480-101 | C-3        | 10       | 97499 | 209-071-503-103 | C-1        | 7        |
| 97499 | 209-071-480-103 | C-3        | 11       | 97499 | 209-071-504-101 | C-1        | 4        |
| 97499 | 209-071-481-101 | C-2        | 8        | 97499 | 209-071-505-101 | C-1        | 2        |
| 97499 | 209-071-482-101 | C-8        | 10       | 97499 | 209-071-505-103 | C-1        | 3        |
| 97499 | 209-071-482-125 | C-8        | 4        | 97499 | 209-071-506-101 | C-1        | 8        |
| 97499 | 209-071-485-101 | C-4        | 19       | 97499 | 209-071-508-101 | C-3        | 21       |
| 97499 | 209-071-485-101 | C-5        | 19       | 97499 | 209-071-509-101 | C-8        | 7        |
| 97499 | 209-071-485-101 | C-6        | 19       | 97499 | 209-071-513-101 | C-8        | 5        |
| 97499 | 209-071-485-101 | C-7        | 16       | 97499 | 209-071-514-101 | C-11       | 27       |
| 97499 | 209-071-486-101 | C-3        | 9        | 97499 | 209-071-516-101 | C-8        | 3        |
| 97499 | 209-071-486-101 | C-7        | 17       | 97499 | 209-071-517-101 | C-1        | 5        |
| 97499 | 209-071-487-101 | C-3        | 5        | 97499 | 209-071-518-101 | C-10       | 77       |
| 97499 | 209-071-487-101 | C-5        | 20       | 97499 | 209-071-519-101 | C-10       | 69       |
| 97499 | 209-071-487-101 | C-6        | 20       | 97499 | 209-175-441-103 | C-2        | 16       |
| 97499 | 209-071-488-101 | C-4        | 20       | 97499 | 209-175-441-105 | C-9        | 40       |
| 97499 | 209-071-488-101 | C-7        | 18       | 97499 | 209-671-002-101 | C-8        | 23       |
| 97499 | 209-071-489-101 | C-4        | 9        | 97499 | 209-671-003-101 | C-8        | 38       |
| 97499 | 209-071-489-101 | C-5        | 9        | 97499 | 209-671-004-101 | C-8        | 33       |
| 97499 | 209-071-489-103 | C-6        | 9        | 97499 | 209-671-005-101 | C-10       | 16       |
| 97499 | 209-071-490-101 | C-4        | 15       | 97499 | 209-671-006-101 | C-10       | 50       |
| 97499 | 209-071-490-101 | C-5        | 15       | 97499 | 21-00304-12     | C-9        | 12       |
| 97499 | 209-071-490-101 | C-6        | 15       | 97499 | 21-00606-14     | C-10       | 23       |
| 97499 | 209-071-491-101 | C-4        | 16       | 97499 | 21-00706-14     | C-10       | 22       |
| 97499 | 209-071-491-101 | C-5        | 16       | 97499 | 21-008035-12    | C-9        | 14       |
| 97499 | 209-071-491-103 | C-6        | 16       | 97499 | 30-137-4S-080   | C-11       | 6        |
| 97499 | 209-071-492-101 | C-4        | 17       | 33363 | 71-6250         | C-10       | 15       |
| 97499 | 209-071-492-101 | C-5        | 17       | 17999 | 83T-DUC515H     | C-11       | 15       |
| 97499 | 209-071-492-101 | C-6        | 17       | 17999 | 83T-DUC515HR    | C-11       | 14       |
| 97499 | 209-071-493-101 | C-10       | 43       | 97499 | 85T4-8-2        | C-9        | 45       |
| 97499 | 209-071-494-101 | C-8        | 25       | 15940 | 9-0804-21       | C-9        | 18       |
| 97499 | 209-071-495-101 | C-3        | 31       | 25706 | 975-4           | C-9        | 44       |
| 97499 | 209-071-495-103 | C-3        | 32       |       |                 |            |          |



APPENDIX D

EXPENDABLE SUPPLIES AND MATERIALS LIST

SECTION I. INTRODUCTION

**D-1. SCOPE.** This appendix lists expendable supplies and materials you will need to operate and maintain the BAGSE. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

**D-2. EXPLANATION OF COLUMNS.**

a. *Column (1) - Item Number.* This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use barrier material, item 1, app D").

b. *Column (2) - Level.* This column identifies the lowest level of maintenance that requires the listed item.

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.* Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the Federal Supply Code for Manufacturer (FSCM) in parentheses followed by the part number.

e. *Column (5) - Unit of Measure (U/M).* Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in., pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

F - Direct Support Maintenance

SECTION II. EXPENDABLE SUPPLIES AND MATERIALS LIST

| (1)<br>ITEM<br>NUMBER | (2)<br>LEVEL | (3)<br>NATIONAL<br>STOCK<br>NUMBER | (4)<br>DESCRIPTION   | (5)<br>U/M |
|-----------------------|--------------|------------------------------------|--|------------|
| 1                     | F            | 8135-00-292-9719                   | BARRIER MATERIAL:<br>(81349) MIL-B-121<br>roll                         | YD         |
| 2                     | F            | 7920-00-292-9204                   | CLOTH, CLEANING,<br>FLANNEL:<br>(81348) CCC-C-0046<br>1000 per package | EA         |
| 3                     | F            | 8030-00-838-7789                   | COMPOUND, CORROSION<br>PREVENTIVE:<br>(81348) MIL-C-23411<br>16 oz cn  | CN         |
| 4                     | F            | 7930-00-282-9699                   | DETERGENT, GENERAL<br>PURPOSE:<br>(spray on, wipe off)                 | CN         |

| (1)            | (2)   | (3)                         | (4)   | (5) |
|----------------|-------|-----------------------------|---|-----|
| ITEM<br>NUMBER | LEVEL | NATIONAL<br>STOCK<br>NUMBER | DESCRIPTION   | U/M |
| 5              | F     | 9150-00-616-9020            | GREASE, AIRCRAFT:<br>(81349) MIL-G-25537<br>1.750 LB                  | CN  |
| 6              | F     | 7920-00-659-9175            | PAD, SCOURING:<br>TYPE 1, CLASS 1<br>(81348) C-P-0050                 | EA  |
| 7              | F     | 8010-00-935-7080            | POLYAMIDE EPOXY<br>PRIMER<br>MIL-P-23377 CL2                          | KT  |
| 8              | F     | 7510-00-282-7901            | TAPE, PRESSURE<br>SENSITIVE:<br>2160.0 IN. TYPE 2<br>(81348) PPP-T-60 | RO  |

APPENDIX E

BASIC ISSUE ITEMS (BII)

Section I. INTRODUCTION

**E-1. SCOPE.** This appendix lists basic issue items for the Boresight Assembly Ground Support Equipment (BAGSE).

**E-2. GENERAL.** These are the minimum essential items required to place the BAGSE in operation, to operate it, and to perform emergency repairs. The illustrations will assist you with hard-to-identify items. This manual is your authority to request/requisition replacement BII, based on TOE/MTOE authorization of the end item.

**E-3. EXPLANATION OF COLUMNS.** The following provides an explanation of columns found in the tabular listings:

a. *Column (1) - Illustration Number (Illus Number).* This column indicates the number of the illustration in which the item is shown.

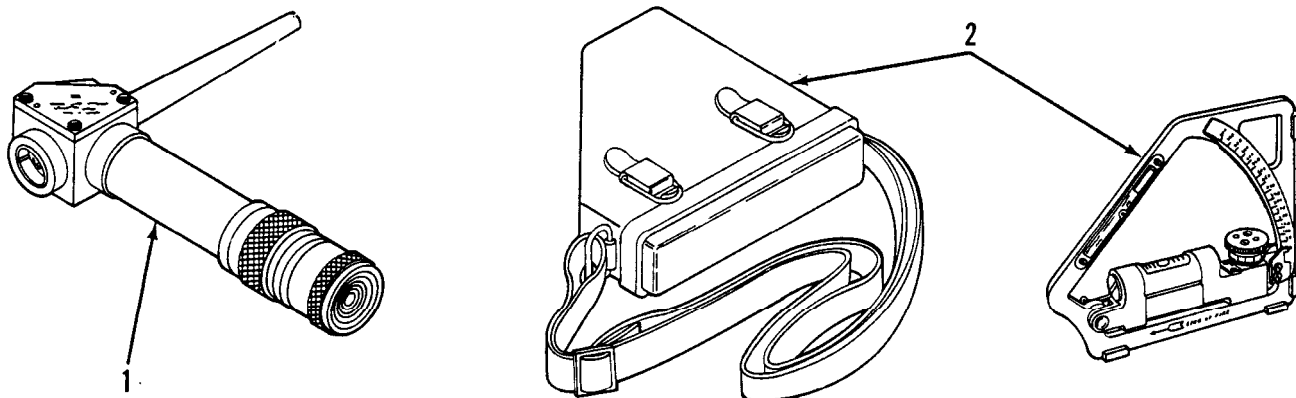
b. *Column (2) - National Stock Number.* Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

c. *Column (3) - Description.* Indicates the Federal item name and, if required, a minimum description to identify and locate the item. The last line of each item indicates the FSCM (in parentheses) followed by the part number.

d. *Column (4) - Unit of Measure (U/M).* Indicates the measure used in performing the actual operational/maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in., pr).

e. *Column (5) - Quantity Required (Qty Rqr).* Indicates the quantity of the item authorized to be used with/on the equipment.

Section III. BASIC ISSUE ITEMS



| (1)<br>ILLUS<br>NUMBER | (2)<br>NATIONAL<br>STOCK<br>NUMBER | (3)<br>DESCRIPTION<br>FSCM AND PART NUMBER               | (4)<br>USABLE<br>ON CODE | (5)<br>QTY<br>RQR |
|------------------------|------------------------------------|--|--------------------------|-------------------|
| 1                      |                                    | BORESIGHT<br>(81349) 7799773                             | EA                       | 4                 |
| 2                      | 1290-00-891-9999                   | QUADRANT, FIRE<br>CONTROL, M1A1W/CASE<br>(19200) 7197156 | EA                       | 2                 |





RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



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

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

Your mailing address

DATE SENT

Date you filled out form.

PUBLICATION NUMBER

TM 9-XXXX-XXX-X

PUBLICATION DATE

Date of TM

PUBLICATION TITLE

Title of TM

BE EXACT...PIN-POINT WHERE IT IS

| PAGE NO. | PARA-GRAPH | FIGURE NO. | TABLE NO. |
|----------|------------|------------|-----------|
| 2-7      | 19         |            |           |
| 3-3      |            | 3-1        |           |

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

Change case No.3 to case No.5.  
Reason: Boresight telescopes are stored in case No.5.

Reverse callouts 8 and 9 in view A.  
Reason: 8 is the screw and 9 is the nut.

**SAMPLE**

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

JOHN SMITH, S. SGT. 793/XXXX

SIGN HERE

*John Smith*

TEAR ALONG DOTTED LINE

FILL IN YOUR  
UNIT'S ADDRESS

FOLD BACK

**DEPARTMENT OF THE ARMY**

\_\_\_\_\_

\_\_\_\_\_

**OFFICIAL BUSINESS**  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
DEPARTMENT OF THE ARMY  
DOD-314



TEAR ALONG DOTTED LINE

Commander  
US Army Armament Materiel Readiness Command  
ATTN: DRSAR-MAS  
Rock Island, IL 61299

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



**SOMETHING WRONG WITH THIS PUBLICATION?**

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

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

TM 9-4931-583-30&P

PUBLICATION DATE

PUBLICATION TITLE

AVIM Instructions

for Boresight Assembly Ground Support Equipment

BE EXACT...PIN-POINT WHERE IT IS

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

PAGE NO.

PARA-GRAPH

FIGURE NO.

TABLE NO.

TEAR ALONG DOTTED LINE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

SIGN HERE

FILL IN YOUR  
UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

\_\_\_\_\_

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
DEPARTMENT OF THE ARMY  
DOD-314



TEAR ALONG DOTTED LINE

Commander  
US Army Armament Materiel Readiness Command  
ATTN: DRSAR-MAS  
Rock Island, IL 61299

# The Metric System and Equivalents

## Linear Measure

1 centimeter = 10 millimeters = .39 inch  
 1 decimeter = 10 centimeters = 3.94 inches  
 1 meter = 10 decimeters = 39.37 inches  
 1 dekameter = 10 meters = 32.8 feet  
 1 hectometer = 10 dekameters = 328.08 feet  
 1 kilometer = 10 hectometers = 3,280.8 feet

## Weights

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 decigrams = .035 ounce  
 1 dekagram = 10 grams = .35 ounce  
 1 hectogram = 10 dekagrams = 3.52 ounces  
 1 kilogram = 10 hectograms = 2.2 pounds  
 1 quintal = 100 kilograms = 220.46 pounds  
 1 metric ton = 10 quintals = 1.1 short tons

## Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounces  
 1 deciliter = 10 centiliters = 3.38 fl. ounces  
 1 liter = 10 deciliters = 33.81 fl. ounces  
 1 dekaliter = 10 liters = 2.64 gallons  
 1 hectoliter = 10 dekaliters = 26.42 gallons  
 1 kiloliter = 10 hectoliters = 264.18 gallons

## Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch  
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches  
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet  
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet  
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres  
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

## Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch  
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches  
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

## Approximate Conversion Factors

| To change     | To                 | Multiply by | To change          | To            | Multiply by |
|---------------|--------------------|-------------|--------------------|---------------|-------------|
| inches        | centimeters        | 2.540       | ounce-inches       | newton-meters | .007062     |
| feet          | meters             | .305        | centimeters        | inches        | .394        |
| yards         | meters             | .914        | meters             | feet          | 3.280       |
| miles         | kilometers         | 1.609       | meters             | yards         | 1.094       |
| square inches | square centimeters | 6.451       | kilometers         | miles         | .621        |
| square feet   | square meters      | .093        | square centimeters | square inches | .155        |
| square yards  | square meters      | .836        | square meters      | square feet   | 10.764      |
| square miles  | square kilometers  | 2.590       | square meters      | square yards  | 1.196       |
| acres         | square hectometers | .405        | square kilometers  | square miles  | .386        |
| cubic feet    | cubic meters       | .028        | square hectometers | acres         | 2.471       |
| cubic yards   | cubic meters       | .765        | cubic meters       | cubic feet    | 35.315      |
| fluid ounces  | milliliters        | 29.573      | cubic meters       | cubic yards   | 1.308       |
| pints         | liters             | .473        | milliliters        | fluid ounces  | .034        |
| quarts        | liters             | .946        | liters             | pints         | 2.113       |
| gallons       | liters             | 3.785       | liters             | quarts        | 1.057       |
| ounces        | grams              | 28.349      | liters             | gallons       | .264        |
| pounds        | kilograms          | .454        | grams              | ounces        | .035        |
| short tons    | metric tons        | .907        | kilograms          | pounds        | 2.205       |
| pound-feet    | newton-meters      | 1.356       | metric tons        | short tons    | 1.102       |
| pound-inches  | newton-meters      | .11296      |                    |               |             |

## Temperature (Exact)

| °F | Fahrenheit temperature | 5/9 (after subtracting 32) | Celsius temperature | °C |
|----|------------------------|----------------------------|---------------------|----|
|----|------------------------|----------------------------|---------------------|----|

**TM 9-4931-583-30&P BORESIGHT ASSEMBLY GROUND  
SUPPORT EQUIPMENT T-102300-101**