

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

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DEPARTMENT OF THE ARMY
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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	
	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, 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

		Page	Illus Figure
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 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.*

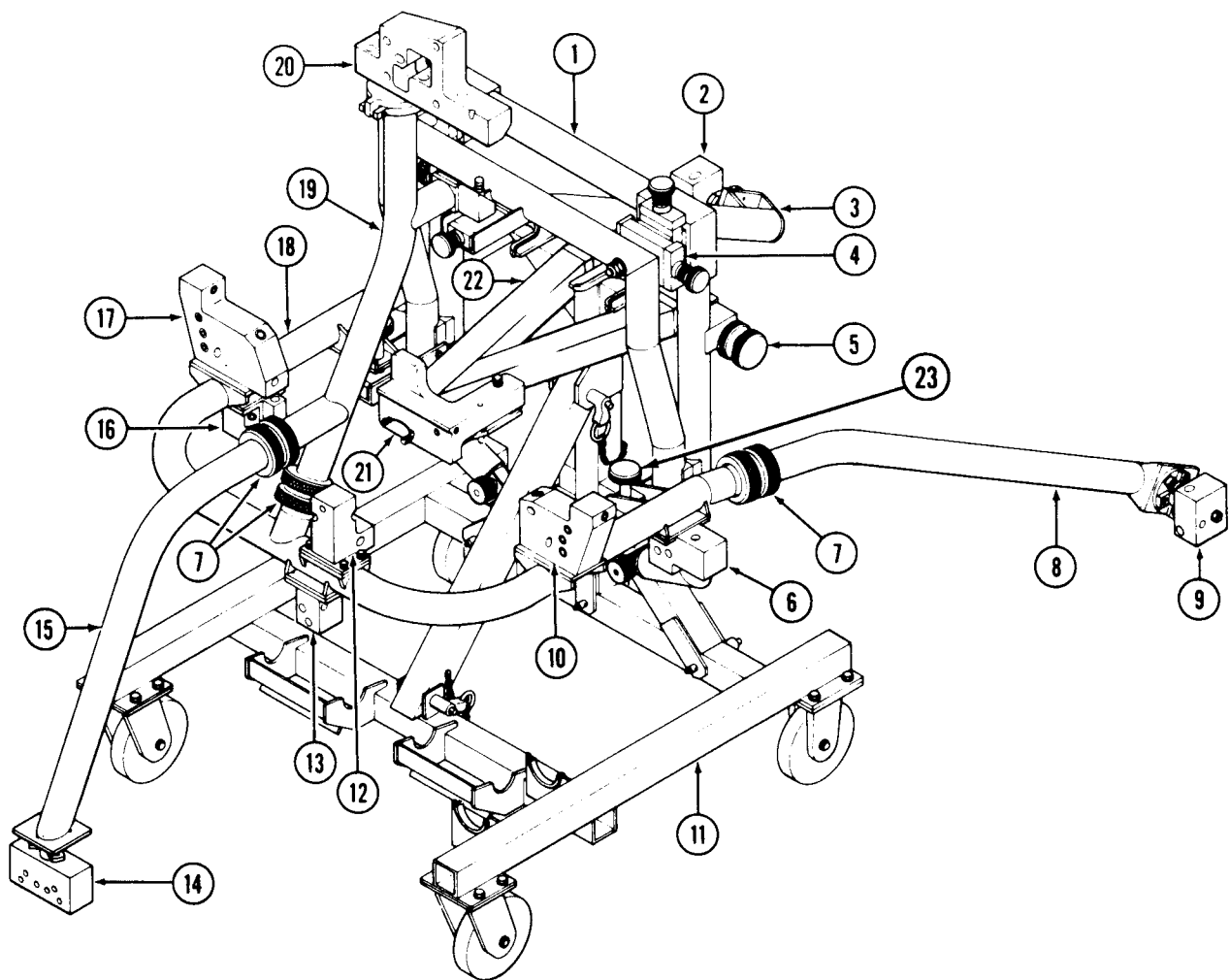
(1) *Boresight Assembly (Assembled). (Figure 1-1.)*

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

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

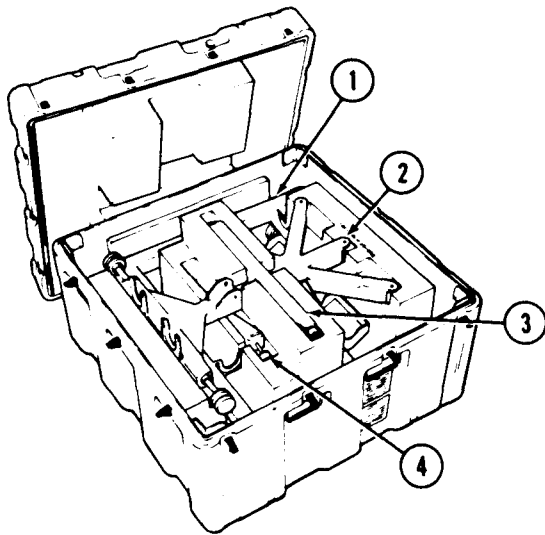
CASE NO.	CUBIC FEET	WEIGHT/ POUNDS
1	22.1	143
2	22.1	147
3	22.2	150
4	17.9	105
5	5.2	53
6	5.2	59
7	12.2	106

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

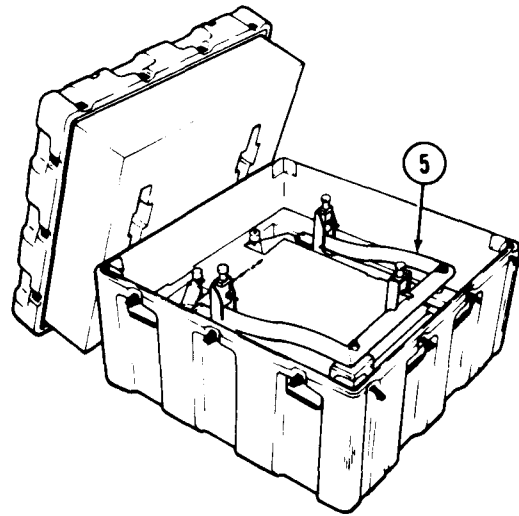


- | | |
|---|-----------------------------------|
| 1. Frame alignment mounting | 12. Forward TSU align block (FR) |
| 2. Right hand gun block (RG) | 13. Forward TSU LOS block (TF) |
| 3. Frame assembly right hand gun | 14. Forward gun block (FG) |
| 4. Slider assembly (5) | 15. Frame assembly forward 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 |

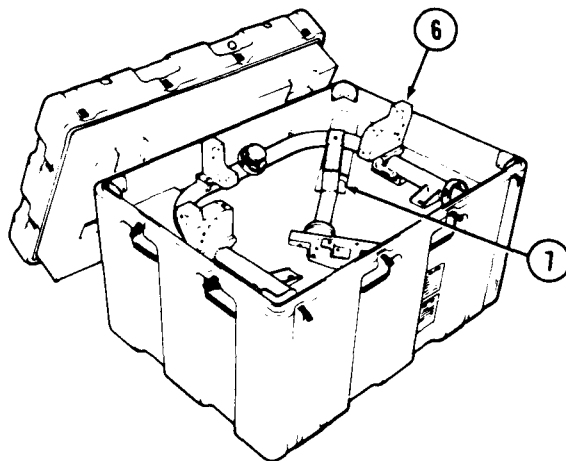
Figure 1-1. Boresight Assembly, Ground Support Equipment (BAGSE)



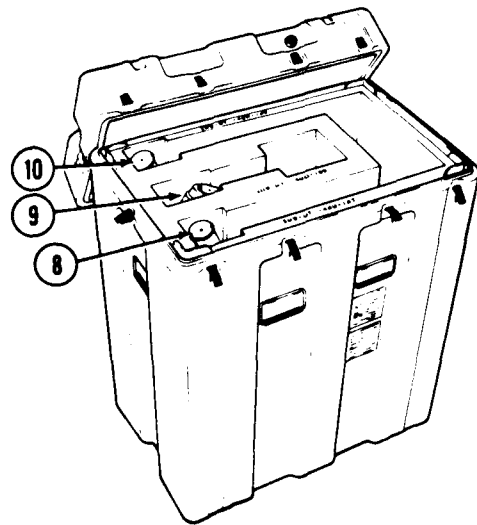
CASE 1



CASE 2



CASE 3



CASE 4

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