

TECHNICAL MANUAL

**DIRECT SUPPORT
AND GENERAL SUPPORT
MAINTENANCE MANUAL**

**PART 2
MAINTENANCE**

**TURRET
FOR
COMBAT ENGINEER VEHICLE,
M728
(2350-00-795-1797)**

CHAPTERS 9 THRU 12	
MAINTENANCE INSTRUCTIONS	9-1
FOLDOUTS	
EQUIPMENT LOCATION DIAGRAMS	

This copy is a reprint which includes current
pages from Changes 1 through 4.

Technical Manual
No. 9-2350-222-34-2-2

HEADQUARTERS,
DEPARTMENT OF THE ARMY
Washington, D. C., 10 October 1980

Technical Manual
Direct Support and General Support
Maintenance Manual
Part 2
Maintenance
TURRET
FOR
COMBAT ENGINEER VEHICLE,
M728
(2350-00-795-1797)

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 directly to:

Commander
U. S. Army Armament, Munitions and Chemical Command
ATTN: AM SMC-MAS
Rock Island, IL 61299-6000

A reply will be furnished to you.

*This manual in conjunction with TM 9-2350-222-34-2-1, TM 9-2350-222-34-2-3, TM 9-2350-222-34-2-4, and TM 9-2350-222-34-2-5 supersedes so much of the DS/GS portion of TM 9-2300-378-35/2, January 1968, as pertains to the M728 CEV, so much of the DS/GS Portion of TM 9-2350-222-35/2, October 1965, as pertains to the M728 CEV, and so much of the DS/GS portion of TM 9-2300-378-35/1, January 1968, as pertains to the Slipping Assembly, Turret and Miscellaneous Components for the M728 CEV. including all changes.

TABLE OF CONTENTS		Paragraph	Page
CHAPTER 1.	.....	1-1	. . .
Thru	PART 1	Thru	
CHAPTER 8.	.....	8-27	. . .
CHAPTER 9.	CUPOLA GUARDS.....	9-1	9-1
CHAPTER 10.	HANGERS.....	10-1	10-1
CHAPTER 11.	CANNON M135 AND COMBINATION GUN MOUNT	11-1	11-1
Section 1.	Scope.....	11-1	11-1
Section 2.	Cannon M 135 and Combination Gun Mount M150.....	11-2	11-2
Section 3.	Replenisher.....	11-26	11-190
CHAPTER 12.	CUPOLA.....	12-1	12-1
Section 1.	Scope.....	12-1	12-1
Section 2.	Cupola.....	12-2	12-1
Section 3.	Cupola Bearing Components.....	12-5	12-14
Section 4.	Cupola Azimuth Gear Box.....	12-11	12-45
Section 5.	Elevating Screw Jack.....	12-17	12-72
CHAPTER 13.	.....	13-1	. . .
Thru	PART 3	Thru	
CHAPTER 14.	.....	14-20	. . .
CHAPTER 15.	.....	15-1	
Thru	PART 4	Thru	
CHAPTER 18	.....	18-102	. . .
CHAPTER 19.	.....	19-1	. . .
Thru	PART 5	Thru	
CHAPTER 29	.....	29-3	. . .
INDEX	.....	. . .	Index 1
FOLDOUTS	.....	. . .	. . .

CHAPTER 9

CUPOLA GUARDS

9-1. MAINTENANCE PROCEDURES INDEX

Equipment Item	Removal	Tasks Installation	Repair
1. Guard (10884246)	9-2	9-3	
2 Guard (10884251)	9-4	9-5	
3 Support Bracket	9-4	9-5	
4. Guard (10916000)	9-6	9-7	
5. Support	9-8	9-9	9-10
6. Plate	9-8	9-9	
7 Rubber Strip	9-8	9-9	

CUPOLA
AZIMUTH
GEAR BOX

CUPOLA
AZIMUTH
LOCK

CUPOLA
AZIMUTH
LOCK

CUPOLA
AZIMUTH
LOCK

9-2. GUARD (10884246) REMOVAL PROCEDURE

TOOLS: 3/8" flat tip screwdriver
 1/4" flat tip screwdriver
 scraper
 Stiff bristled brush
 Fine stone

SUPPLIES: Dry cleaning solvent (item 33, App. A)
 Crocus cloth (item 7, App. A)

PERSONNEL: One

REFERENCES: JPG for procedures to:
 clean parts
 Inspect and repair parts

EQUIPMENT LOCATION INFORMATION

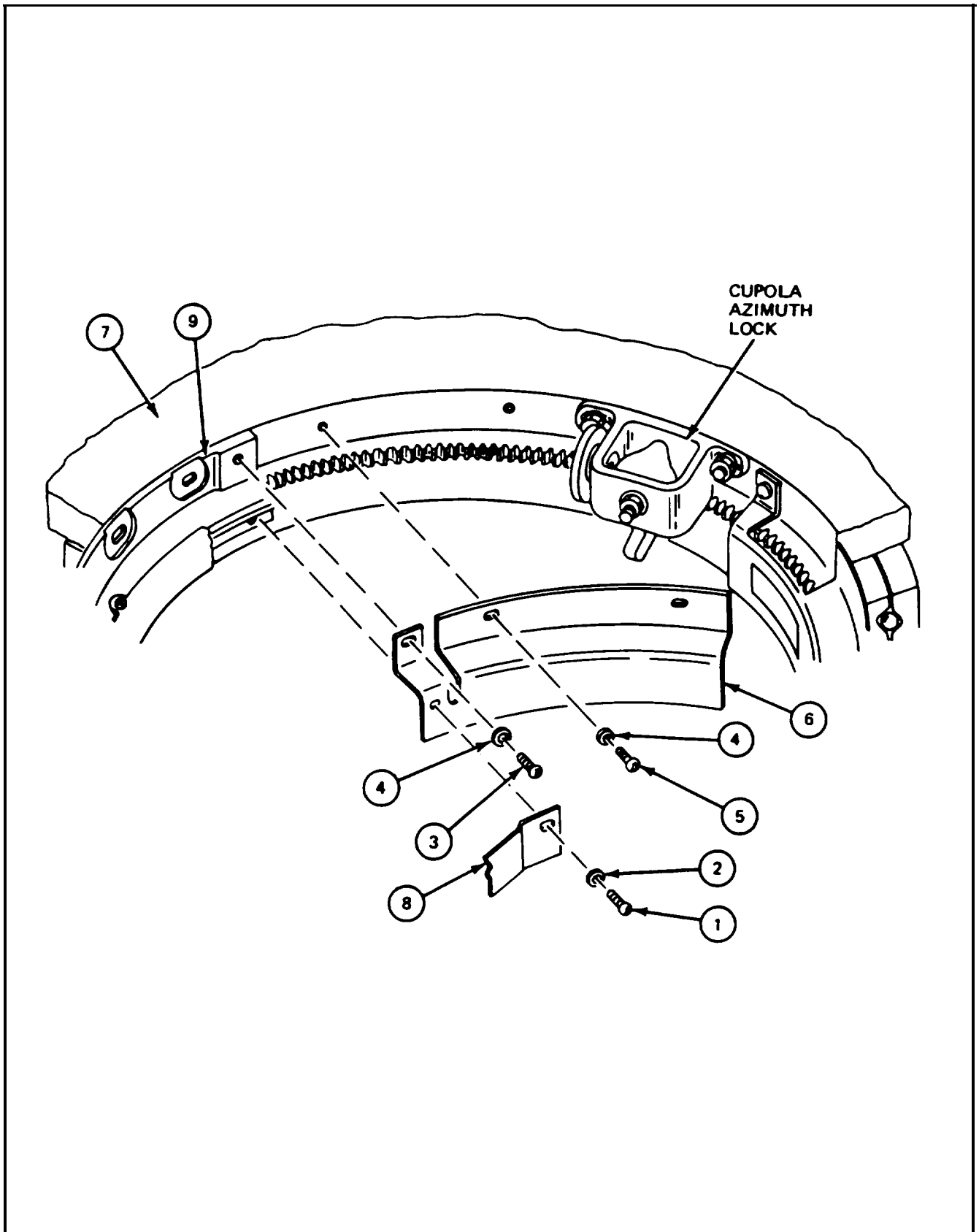
EQUIPMENT	FOLDOUT	CALLOUT
Driver's Master Control Panel	FO-3	11
Cupola Azimuth Lock	FO-2	19

EQUIPMENT CONDITION: Driver's master control panel MASTER BATTERY switch to OFF

PRELIMINARY PROCEDURES:\ Remove guard (10916000) (para 9-6)

9-2. GUARD (10884246) REMOVAL PROCEDURE (CONT)

FRAME 1	
Step	Procedure
1. 2. 3. 4.	Using 1/4" screwdriver, remove screw (1) and lockwasher (2). Using 3/8" screwdriver, remove screw (3), lockwasher (4), screw (5) and lockwasher (4) holding guard (6) to cupola (7). NOTE Lower left part of guard (6) is between backrest pad assembly (8) and support (9). Slide guard (6) to right, away from backrest pad assembly (8). Remove guard (6) from cupola (7). NOTE Follow-on Maintenance Action Required: Clean all parts (JPG). Inspect and repair all parts (JPG). Repair support (para 9-10). END OF TASK



9-3. GUARD (10884246) INSTALLATION PROCEDURE

TOOLS: 1/4" flat tip screwdriver
3/8" flat tip screwdriver

PERSONNEL: One

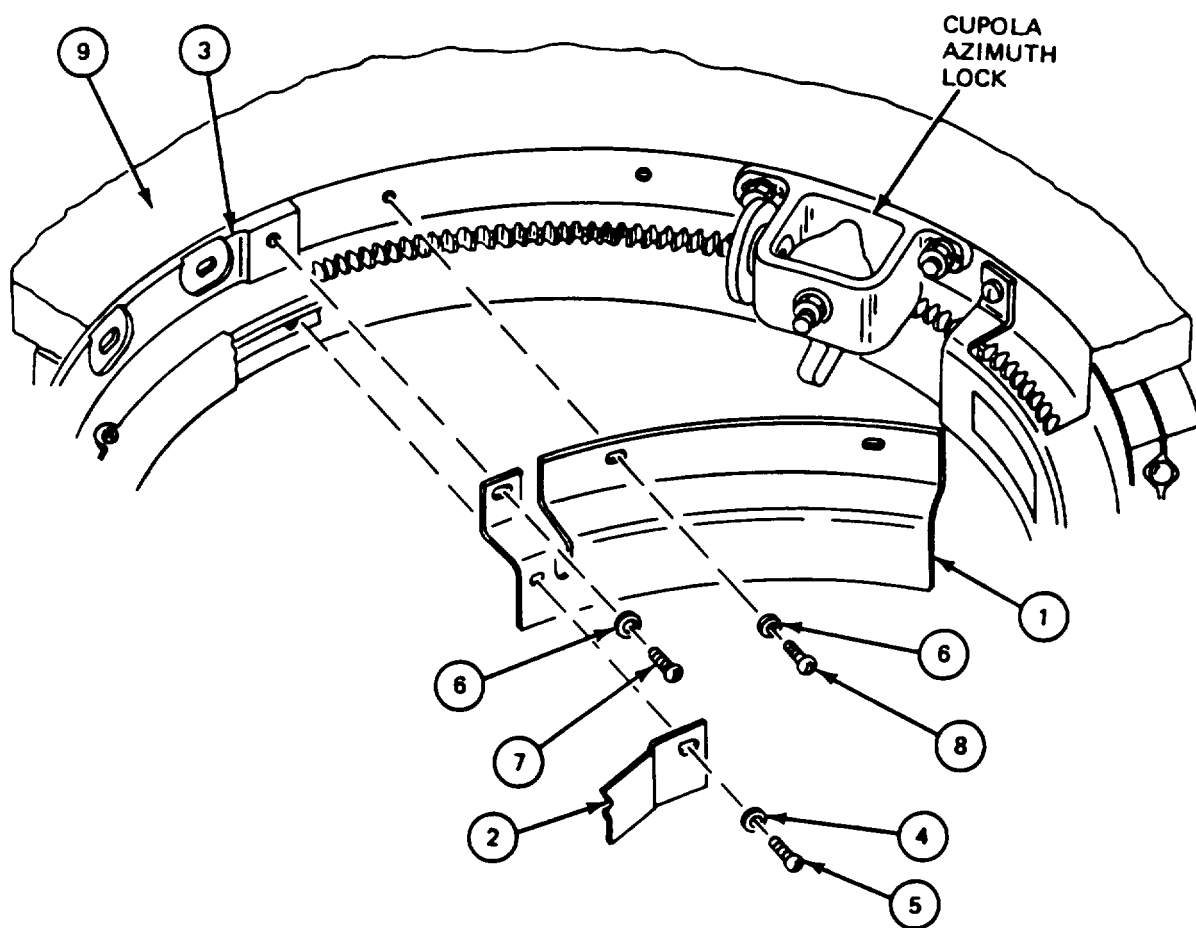
EQUIPMENT LOCATION INFORMATION:

EQUIPMENT	FOLDOUT	CALLOUT
Driver's Master Control Panel	FO-3	11
Cupola Azimuth Lock	FO-2	19

EQUIPMENT CONDITION: Driver's master control panel MASTER BATTERY switch set to OFF

9-3. GUARD (10884246) INSTALLATION PROCEDURE (CONT)

FRAME 1	
Step	Procedure
1.	Slide left end of guard (1) between backrest pad assembly (2) and support (3). Line up four screw holes of guard (1). NOTE Screw (5) is shortest screw.
2.	Using 1/4" screwdriver, put in lockwasher (4) and screw (5) that attach pad assembly (2) and left end of guard (1) to support (3). NOTE Screw (7) is shorter than screw (8).
3.	Using 3/8" screwdriver, put in two lockwashers (6), screw (7) and screw (8) that attach guard (1) to cupola (9). NOTE Follow-on Maintenance Action Required: Install guard (10916000) (para 9-7). END OF TASK



9-4. GUARD (10884251) AND SUPPORT BRACKET REMOVAL PROCEDURE

TOOLS: 1/4” flat tip screwdriver
3/8’ flat tip screwdriver
Scraper
Stiff bristled brush
Fine stone

SUPPLIES: Dry cleaning solvent (item 33, App. A)
Crocus cloth (item 7, App. A)

PERSONNEL: One

REFERENCES: JPG for procedures to:
Disconnect electrical connectors
Clean parts
Inspect and repair parts

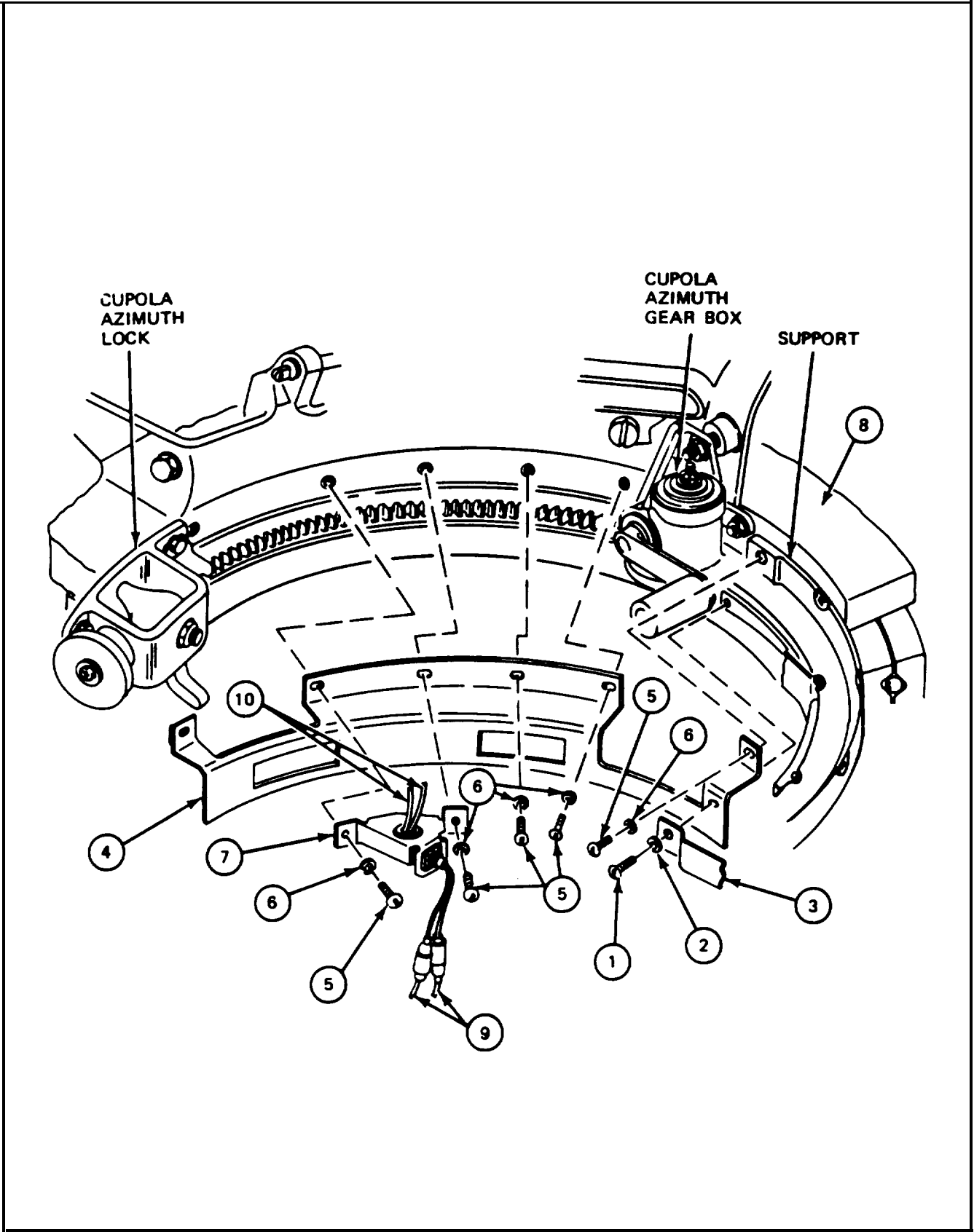
EQUIPMENT LOCATION INFORMATION:

EQUIPMENT	FOLDOUT	CALLOUT
Driver’s Master Control Panel	FO-3	11
Cupola Azimuth Lock	FO-2	19

EQUIPMENT CONDITION: Driver’s master control panel MASTER BATTERY switch set to OFF

PRELIMINARY PROCEDURES: Remove guard (10916000) (para 9-6).

FRAME 1	
Step	Procedure
1.	Using 1/4" screwdriver, remove screw (1) and lockwasher (2) holding end of backrest pad assembly (3) against end of guard (4). CAUTION After doing step 2, support bracket (7) will be free of guard (4) but still held up by wiring harness (9) and lead assembly (10). Be careful not to damage wires.
2.	Using 3/8” screwdriver, remove five screws (5) and five lockwashers (6) holding support bracket (7) and guard (4) to cupola (8).
3.	Slide guard (4) to left from under backrest pad assembly (3).
4.	Remove guard (4) from cupola (8). GO TO FRAME 2



9-4. GUARD (10884251) AND SUPPORT BRACKET REMOVAL PROCEDURE (CONT)

FRAME 2	
Step	Procedure
1. 2. 3.	NOTE
	Do steps 1 thru 3 if support bracket (4) must be removed.
	Remove lead assembly (1) and eletrical connector (2) (para 8-8).
	Using hands, remove grommet (3) from support bracket (4).
	Remove support bracket (4) from cupola (5).
	NOTE
	Follow-on Maintenance Action Required:
	Clean all parts (JPG).
	Inspect and repair all parts (JPG).
	END OF TASK