TM 9-2350-222-20-2-3-3

CHAPTERS 37 THRU 69
MAINTENANCE INSTRUCTIONS 37-1

APPENDIX A
EXPENDABLE SUPPLIES AND MATERIALS LIST A-1

APPENDIX B
FABRICATED TOOLS B-1

FOLDOUTS
EQUIPMENT LOCATION DIAGRAMS

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE MANUAL

VOLUME III - PART 3

MAINTENANCE

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

This copy is a reprint which includes current pages from Changes 1 through 3.

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Technical Manual

Organizational Maintenance Manual

Volume III - Part 3
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.

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● This manual in conjunction with TM 9-2350-222-20-2-1, TM 9-2350-222-20-2-2-1, TM 9-2350-222-20-2-2-2, TM 9-2350-222-20-2-3-1, TM 9-2350-222-20-2-3-2 supersedes the turret portion of TM 9-2350-222-20, September 1965, including all changes.

TABLE OF CONTENTS

	Paragraph	Page
CHAPTER 1.	1-1	...
Thru VOLUME III - PART 1		
CHAPTER 14.	14-1	...
CHAPTER 15.	15-1	...
Thru VOLUME III - PART 2		
CHAPTER 36.	36-1	...
CHAPTER 37. POWER PACK	37-1	37-1
Section 1. scope	37-1	37-1
Section 2. Manual Elevation Accumulator	37-2	37-2
Section 3. Reservoir Oil Strainer	37-5	37-6
Section 3.1 Reservoir Liquid Level Sight Gage	37-7.1	37-10.1
Section 4. Ground Strap	37-8	37-10.4
Section 5. Motor Mounting Bracket	37-11	37-14
Section 6. Motor Mounting Plate	37-14	37-18
Section 6.1 Electric Drive Motor	37-16.1	37-22
Section 7. Gunner's Control	37-17	37-22.14
CHAPTER 38. COMMANDERS POWER CONTROL	38-1	38-1
CHAPTER 39. ELEVATING MECHANISM	39-1	39-1
CHAPTER 40. MAIN ACCUMULATOR AND RELATED PARTS	40-1	40-1
CHAPTER 41. DECK CLEARANCE VALVE	41-1	41-1
CHAPTER 42. TURRET TRAVERSING MECHANISM	42-1	42-1
CHAPTER 43. HAND TRAVERSING DRIVE	43-1	43-1
CHAPTER 44. TURRET TRAVERSE LOCK	44-1	44-1
CHAPTER 45. AZIMUTH INDICATOR	45-1	45-1
CHAPTER 46. EQUILIBRATOR ACCUMULATOR AND SUPPORT	46-1	46-1
CHAPTER 47. EQUILIBRATOR CHARGING MANIFOLD AND RELATED PARTS	47-1	47-1
CHAPTER 48. LIGHT SOURCE CONTROL (ELEVATION QUADRANT)	48-1	48-1
CHAPTER 49. COMMANDER'S PERISCOPE LINK	49-1	49-1

		Paragraph	Page
CHAPTER 50.	COMMANDER 'S PERISCOPE MOUNT Ml19 HEADREST	50-1	50-1
CHAPTER 50.1	COMMANDER'S M30 INSTRUMENT LIGHT CLAMP	50.1-1	50.1-1
CHAPTER 51.	GUNNER'S PERISCOPE MOUNT M118/M118E1 HEADREST	51-1	51-1
CHAPTER 51.1	GUNNER'S M30 INSTRUMENT LIGHT CLAMP	51.1-1	51.1-1
CHAPTER 52.	M32C/M32CE1 PERISCOPE	52-1	52-1
CHAPTER 53.	M36/M36E1 PERISCOPE LIGHT SOURCE CONTROL	53-1	53-1
CHAPTER 54.	ELEVATION QUADRANT	54-1	54-1
CHAPTER 55.	INFINITY SIGHT WITH LIGHT COURCE CONTROL	55-1	55-1
CHAPTER 56.	M36/M36E1 PERISCOPE	56-1	56-1
CHAPTER 57.	ARTICULATED TELESCOPE M105F	57-1	57-1
CHAPTER 58.	COMMANDER'S ELECTRIC AIR FILTER HEATER	58-1	58-1
CHAPTER 59.	GUNNERS ELECTRIC AIR FILTER HEATER	59-1	59-1
CHAPTER 60.	LOADER'S ELECTRIC AIR FILTER HEATER	60-1	60-1
CHAPTER 61.	BOOM WINCH SHIFT LEVER	61-1	61-1
CHAPTER 62.	BOOM WINCH WIRE ROPE, FERRULE, AND STAYLINES	62-1	62-1
CHAPTER 63.	HYDRAULIC WINCH MOTOR AND COVER	63-1	63-1
CHAPTER 64.	MANIFOLD COUNTERBALANCE AND SHUTTLE VALVE	64-1	64-1
CHAPTER 65.	DIRECTIONAL CONTROL VALVE	65-1	65-1
CHAPTER 66.	A-FRAME PULLEY (SHEAVE)	66-1	66-1
CHAPTER 67.	BOOM TRAVEL LOCK	67-1	67-1
CHAPTER 68.	SEARCHLIGHT SYSTEM	68-1	68-1
CHAPTER 68.1	SMOKE GRENADE LAUNCHER	68.1-1	68.1-1
CHAPTER 69.	MAINTENANCE OF MATERIAL USED IN CONJUNCTION WITH MAJOR ITEMS	69-1	69-1
APPENDIX A.	EXPENDABLE SUPPLIES AND MATERIALS LIST		A-1
APPENDIX B.	FABRICATED TOOLS		B-1
INDEX			Index 1
FOLDOUTS			...

CHAPTER 37

POWERPACK

Section I. SCOPE

37-1. LIST OF EQUIPMENT ITEMS CONTAINED IN THIS CHAPTER

Section	Equipment Item	Paragraph
2	Manual Elevation Accumulator	37-2
3	Reservoir Oil Strainer	37-5
3.1	Reservoir Liquid Level Sight Gage	37-7.1
4	Ground Strap	37-8
5	Motor Mounting Bracket	37-11
6	Motor Mounting Plate	37-14
6.1	Electric Drive Motor	37-16.1
7	Gunner's Control	37-17

Section II. MANUAL ELEVATION ACCUMULATOR

37-2. MAINTENANCE PROCEDURES INDEX

Equipment Item	Tasks	
	Removal	Installation
Manual Elevation Accumulator	37-3	37-4

37-3. MANUAL ELEVATION ACCUMULATOR REMOVAL PROCEDURE

TOOLS: 9/16 in. open end wrench
1-1/8 in. open end wrench
8 in. adjustable wrench

SUPPLIES: Plugs for hydraulic lines
1 quart container

PERSONNEL: One

EQUIPMENT LOCATION INFORMATION:

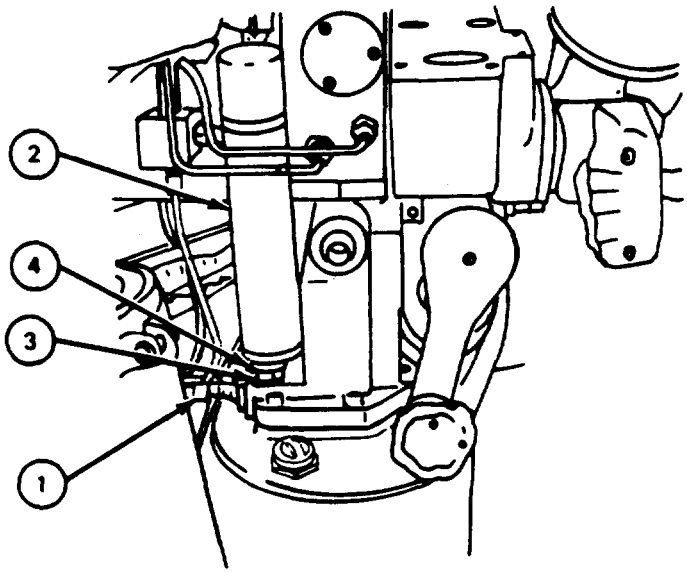
EQUIPMENT	FOLDOUT	CALLOUT
Driver's Master Control Panel	FO-3	11
Turret Traverse Lock	FO-3	7
Power Pack	PO-1	15

EQUIPMENT CONDITION: Driver's master control panel MASTER BATTERY switch set to OFF
Turret traverse lock set to LOCKED

37-3. MANUAL ELEVATION ACCUMULATOR REMOVAL PROCEDURE (CONT)

FRAME 1

Step	Procedure
	WARNING Before removing hydraulic tubes or parts, hydraulic system pressure must be lowered to 0 psi. Hydraulic fluid under pressure can hurt you. .
1.	Lower hydraulic system pressure to 0 psi (para 1-18).
2.	Using 9/16" open end wrench, loosen manual depression (M.D.) hydraulic line (1) while holding container in other hand. When hydraulic line is loosened, let hydraulic fluid drain into container. Do not reuse this hydraulic oil.
	NOTE When doing step 3, make sure that accumulator unscrews from adapter.
3.	Using adjustable wrench and 1-1/8" open end wrench, remove accumulator (2) from adapter (3). Remove O-ring (4).
4.	Plug openings in hydraulic line (1) and adapter (3) to keep dirt or any contamination from entering.
	END OF TASK



37-4. MANUAL ELEVATION ACCUMULATOR INSTALLATION PROCEDURE

TOOLS: 9/ 16" open end wrench
1-1/8” open end wrench
8” adjustable wrench

SUPPLIES: Preformed packing

PERSONNEL: One

REFERENCES: TM 9-2350-222-10 for procedure to check oil level

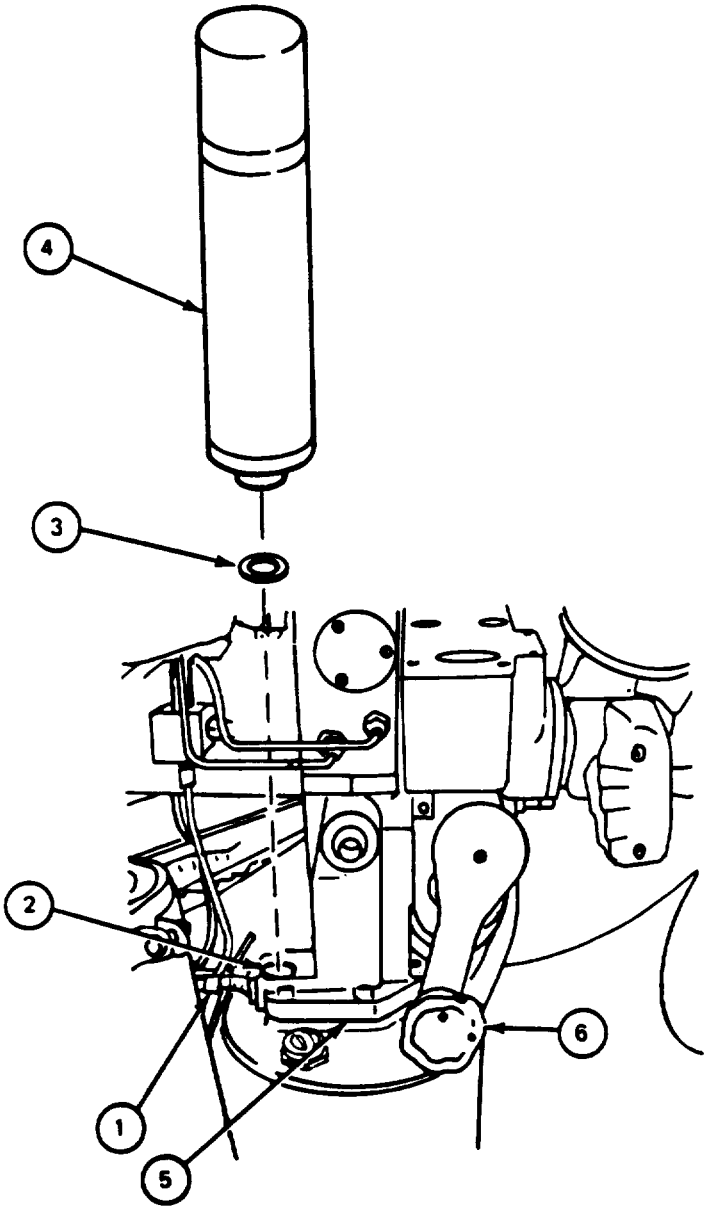
EQUIPMENT LOCATION INFORMATION:

EQUIPMENT	FOLDOUT	CALLOUT
Driver’s Master Control Panel	FO-3	11
Turret Traverse Lock	FO-3	7
Power Pack	FO-1	15

EQUIPMENT CONDITION: Driver’s master control panel MASTER BATTERY switch set to OFF
Turret traverse lock set to LOCKED

FRAME 1

Step	Procedure
1.	Remove plugs from manual depression (M.D.) hydraulic line (1) and adapter (2).
2.	Install new O-ring (3) on accumulator (4).
3.	Using adjustable wrench and 1-1/8" open end wrench, attach accumulator (4) to adapter (2).
4.	Using 9/ 16” open end wrench, attach hydraulic line (1) to riser (5).
5.	Using manual elevation pump handle (6), depress 105-mm gun to maximum depression. Keep turning pump handle in same direction until pump handle can no longer be turned with one hand. Accumulator (4) is now charged.
	NOTE Follow-on Maintenance Action Required: Bleed manual elevation system (para 1-22). Check oil level in reservoir (TM-10).
	END OF TASK


4
3
2
6
1
5

Section 3. RESERVOIR OIL STRAINER

37-5. MAINTENANCE PROCEDURES INDEX

Equipment Item	Tasks	
	Removal	**Installation**
Reservoir Oil **Strainer**	**37-6**	**37-7**

37-6. RESERVOIR OIL STRAINER REMOVAL PROCEDURE

TOOLS: 1-5/8" open end wrench

SUPPLIES: Dry cleaning solvent (item 22, **App. A)**

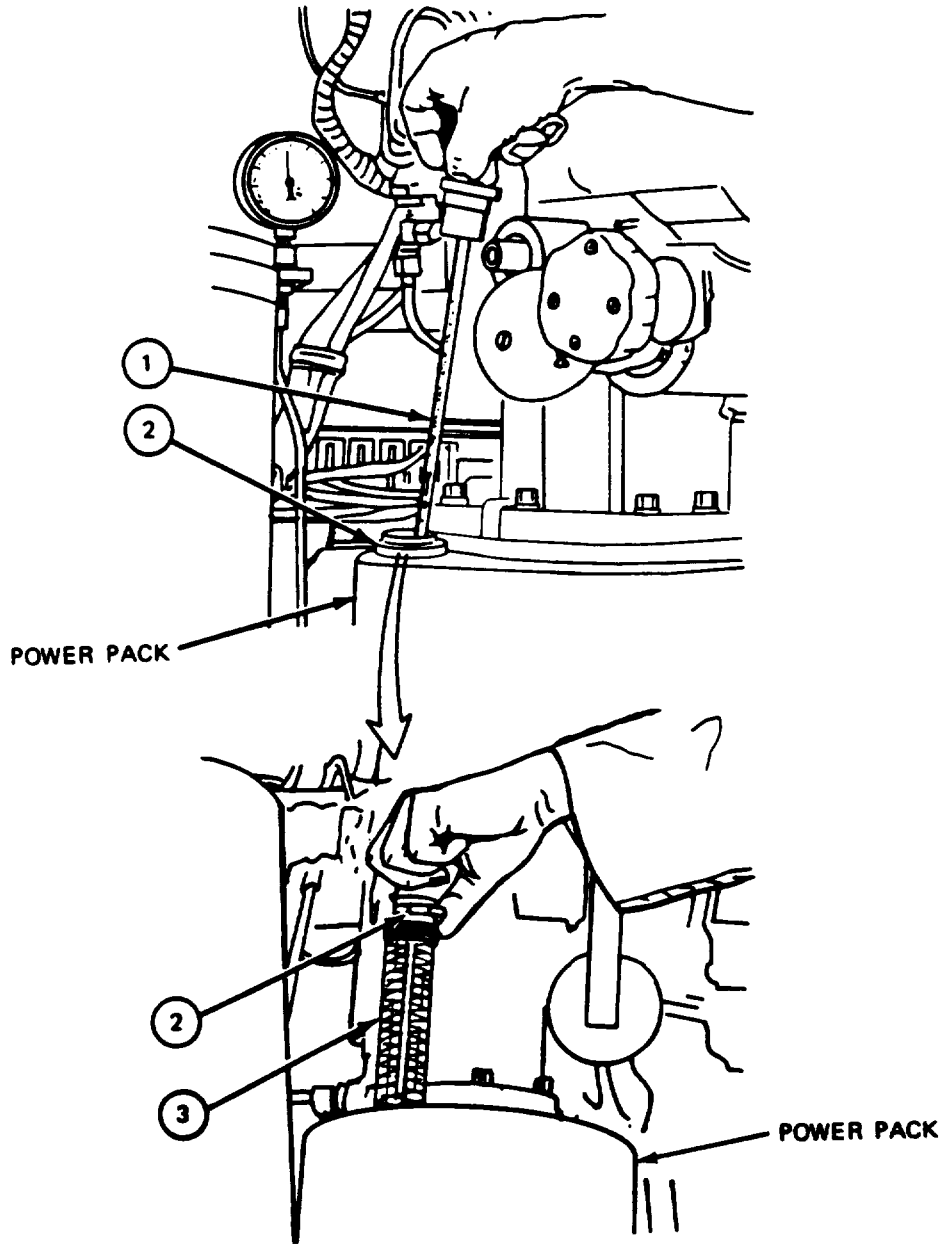
PERSONNEL: One

EQUIPMENT LOCATION INFORMATION:

EQUIPMENT	FOLDOUT	CALLOUT
Power Pack	FO-1	15

FRAME 1

Step	Procedure
1.	Using hand, remove dipstick (1) from power pack.
2.	Using wrench, unscrew oil strainer nut (2).
3.	Remove oil strainer (3).
	NOTE Follow-on Maintenance Action Required: Clean oil strainer (JPG).
	END OF TASK


1
2
POWER PACK
2
3
POWER PACK

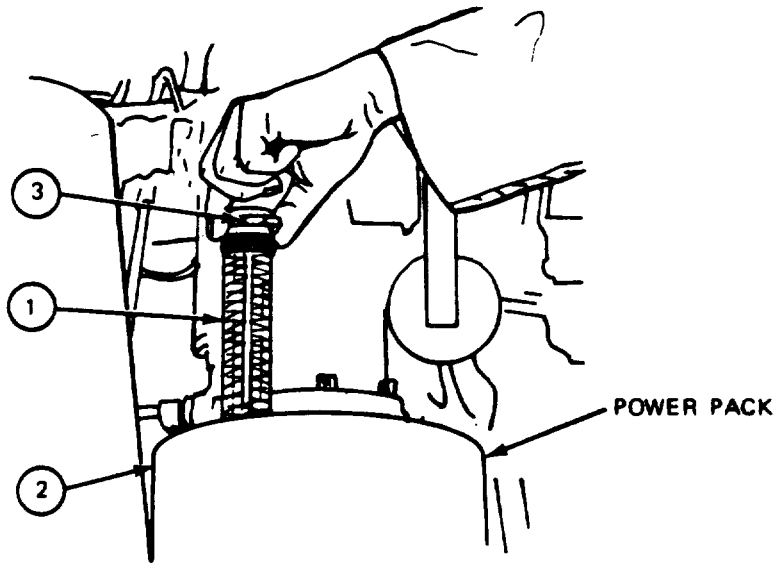
37-7. RESERVOIR OIL STRAINER INSTALLATION PROCEDURE

TOOLS: 1-5/8” open end wrench

PERSONNEL: One

EQUIPMENT LOCATION INFORMATION:

EQUIPMENT	FOLDOUT	CALLOUT
Power Pack	FO- 1	15

FRAME 1

Step	Procedure
1.	**Put oil** strainer (1) into reservoir (2).
2.	Using wrench, screw oil strainer nut (3) into reservoir (2).
	GO TO FRAME 2