

TECHNICAL MANUAL
DIRECT SUPPORT AND GENERAL SUPPORT
MAINTENANCE MANUAL

FOR

2.75-INCH LOW SPIN,
FOLDING FIN AIRCRAFT ROCKETS,

2.75-INCH SPIN STABILIZED,

WRAP AROUND FIN AIRCRAFT ROCKETS,

66MM LIGHT ANTITANK WEAPON SYSTEMS,

3.5-INCH ROCKETS AND

M3A2E1 ROCKET MOTOR (JATO)

DISTRIBUTION STATEMENT A: Approved for public release, distribution unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

OCTOBER 1994

Technical Manual
No. 9-1340-222-34

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 17 October 1994

**DIRECT SUPPORT AND GENERAL
SUPPORT MAINTENANCE MANUAL
FOR
2.75-INCH LOW SPIN, FOLDING FIN AIRCRAFT ROCKETS;
2.75-INCH SPIN STABILIZED, WRAP AROUND FIN AIRCRAFT ROCKETS;
66MM LIGHT ANTITANK WEAPON SYSTEMS;
3.5-INCH ROCKETS AND M3A2E1 ROCKET MOTOR (JATO)**

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. You may mail, e-mail, or FAX your response. 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, U.S. Army TACOM, Armament Research, Development and Engineering Center, ATTN: AMSTA-AR-WEL-S, Picatinny Arsenal, NJ 07806-5000. E-mail address is LSB@PICA.ARMY.MIL. FAX number is Commercial (973) 724-4633, DSN 880-4633. A reply will be furnished to you.

Page

CHAPTER 1.	INTRODUCTION	
Section I.	General	
	1-1. Scope	1-1
	1-2. Forms, records and reports	1-1
Section II.	Description and Data	
	1-3. General.	1-1
Section III.	Safety, Care, and Handling	
	1-4. General.	1-1
	1-5. Safety	1-1
	1-6. Care and Handling	1-2
CHAPTER 2.	TOOLS AND EQUIPMENT	
	2-1. General.	2-1
	2-2. Tools and equipment	2-1
	2-3. Packaging Materials	2-1
CHAPTER 3.	INSPECTION REQUIREMENTS	
Section I.	General	
	3-1. Purpose of inspection.	3-1
	3-2. Ammunition surveillance program	3-1
	3-3. Inspections	3-1
	3-4. Inspection methods	3-1
	3-5. Extent of inspections	3-1
Section II.	Classification of Material Defects	
	3-6. General.	3-2
	3-7. In-process and final inspection	3-2
	3-8. Disposition of lots	3-2

*This manual supersedes TM 9-1340-222-34 dated 21 August 1974, including all changes.

CHAPTER 4. MAINTENANCE INSTRUCTIONS

Section I.	Introduction	
4-1.	General.	4-1
4-2.	Direct support maintenance	4-1
4-3.	General support maintenance	4-1
4-4.	Unpacking and repacking	4-1
4-5.	Inspection.	4-1
Section II.	Cleaning	
4-6.	General.	4-1
Section III.	Repair	
4-7.	Packaging materials.	4-2
Section IV.	Touchup, Painting, and Marking	
4-8.	Touchup.	4-5
4-9.	Painting	4-6
4-10.	Color coding of boxes with light loads.	4-8
4-11.	Marking.	4-9
APPENDIX A.	REFERENCES	A-1
APPENDIX B.	DIRECT SUPPORT AND GENERAL SUPPORT PACKING MATERIALS, ACCESSORIES, AND TOOLS.	B-1
APPENDIX C.	EXPENDABLE AND DURABLE ITEMS LIST	C-1

LIST OF ILLUSTRATIONS

<i>Number</i>	<i>Title</i>	<i>Page</i>
4-1	Repairing loops on wirebound box	4-3
4-2	Typical marking diagram for fiber containers	4-10
4-3	Palletizing.	4-11
4-4	Typical marking diagram for metal containers	4-12
4-5	Typical marking diagram for wooden boxes	4-13
4-6	Typical marking diagram for 2.75-inch rocket warheads	4-14
4-7	Marking diagram for 2.75-inch M274 rocket warhead	4-14
4-8	Typical marking diagram for 2.75-inch rocket fuzes.	4-15
4-9	Typical marking diagram for 2.75-inch rocket motors	4-16
4-10	Typical marking diagram for 66mm LAW system	4-17
4-11	Typical marking diagram for 3.5-inch rockets.	4-18
4-12	Typical marking diagram for rocket motor M3A2E1 (JATO).	4-19

CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This is one of a series of technical manuals on maintenance of 2.75-inch low spin, folding fin aircraft rockets (LSFFAR), 66mm light antitank weapon system (LAW), 3.5-inch rockets and rocket motor M3A2E1 (JATO). Information in this manual is limited to the responsibilities of direct and general support maintenance personnel.

b. Operating instructions and operator-level maintenance are covered in the weapon manuals listed in appendix A. Organizational level maintenance is covered in TM 9-1340-222-20 which also contains the maintenance allocation chart (MAC). Authorized procedures for each level of maintenance, including direct and general support, are specified in the MAC. Additional information is given in TM 9-1055-460-13&P, Operator's Aviation Unit and Intermediate Maintenance Manual Including Repair Parts and Special Tools List for 2.75-Inch Rocket Launchers, and TM 9-1090-207-13&P, Operator's Aviation Unit and Intermediate Maintenance Manual with Repair Parts and Special Tools List (Including Depot Maintenance) for

Rocket Management Subsystems Inventory-Deployment, XM138.

c. Instructions for conversion of expended 66mm launchers M72A1 to launchers M190 are contained in TM 9-1340-224-12.

d. Destruction procedures are contained in TM 43-0002-33, Destruction of Improved Conventional Ammunition (ICM) to Prevent Enemy Use.

1-2. Forms, Records, and Reports

a. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by DA PAM 738-750.

b. A record should be kept of each inspection job undertaken on an ammunition condition report (ACR).

c. Ammunition data cards will be annotated to reflect major maintenance operations in accordance with TM 9-1300-250.

Section II. DESCRIPTION AND DATA

1-3. General

Description and data on rockets, rocket motors, and rocket weapon systems are contained in TM 9-

1340-222-20. Refer to the applicable operator and organizational maintenance manuals for detailed operating instructions.

Section III. SAFETY, CARE, AND HANDLING

1-4. General

General information on safety, care, and handling is contained in AR 385-64 and DA PAM 385-64. Specific information regarding safety, care, and handling is contained in the applicable operator's and organizational maintenance manuals.

1-5. Safety

Observe precautions generally applicable to ammunition and comply with all regulations and local standing operating procedures. Safety rules peculiar to rockets, rocket motors, and rocket weapon systems are discussed below.

a. Point rockets delivered to the firing line in the direction that would cause the least damage in case of accidental ignition. Store rockets with warhead pointed nose down, if practical.

b. Some LAW systems contain a small amount of radioactive material in the front sight. These systems are identified by the words LIMITED LIGHT SIGHT printed on the launcher and packing containers. If these launchers are returned with broken front sight, remove sight, seal in plastic bag and segregate for disposition by authorized personnel in accordance with AR 385-11.