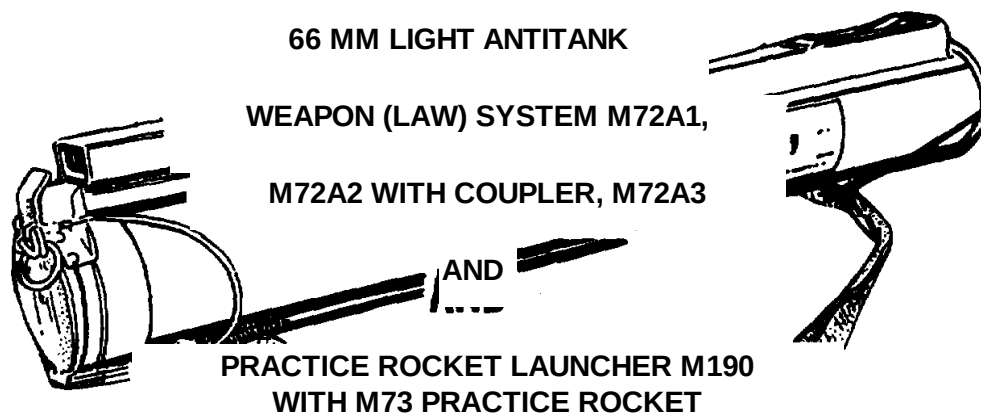




OPERATORS MANUAL  
FOR  
66 MM LIGHT ANTITANK  
WEAPON (LAW) SYSTEM M72A1,  
M72A2 WITH COUPLER, M72A3  
AND  
PRACTICE ROCKET LAUNCHER M190  
WITH M73 PRACTICE ROCKET

Approved for public release; distribution is unlimited.

This copy is a reprint which includes current pages from Change 1.

# WARNING

- DO NOT EXTEND LAUNCHER UNTIL READY TO FIRE.
- DO NOT FIRE UNLESS DANGER AREAS ARE CLEAR OF PERSONNEL AND OBSTRUCTIONS.
- WEAR EAR PLUGS WHEN FIRING THE WEAPON



- METER MARKINGS ON THE FRONT POST SIGHTS OF THE M72A1, M72A2, AND M190 LAUNCHERS CONTAIN SMALL AMOUNTS OF RADIOACTIVE MATERIAL FOR ILLUMINATION. THE SIGHTS DO NOT PRESENT A SIGNIFICANT HEALTH HAZARD BUT MUST BE CONTROLLED. IF SIGHT IS BROKEN REMOVE AND PLACE IN A PLASTIC SEALED BAG. STORE BAG IN A SEALED CONTAINER UNTIL REMOVED BY AMMUNITION DISPOSAL PERSONNEL.

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AR 4412

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
Washington, DC, 20 February 1992

Change )  
          )  
No. 1    )

OPERATOR'S MANUAL  
FOR  
66MM LIGHT ANTITANK WEAPON (LAW) SYSTEM M72A1,  
M72A2 WITH COUPLER, AND M72A3

TM 9-1340-214-10, 31 May 1991, is changed as follows:

1. Make the following pen and ink changes:
  - a. On cover, change the title from "Operator's Manual for 66MM Light Antitank Weapon (LAW) System M72A1, M72A2 With Coupler, M72A3 and Practice Rocket Launcher M190 With M73 Practice Rocket" to read "Operator's Manual for 66MM Light Antitank Weapon (LAW) System M72A1, M72A2 With Coupler, and M72A3".
  - b. On inside back cover, change address from "Commander, U. S. Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAY-T ID), Picatinny Arsenal, NJ 07806-5000" to read "Commander; U. S. Army Armament Research, Development and Engineering Center. ATTN: SMCAR-LMB, Picatinny Arsenal, NJ 07806-5000".

2. Remove old pages and insert new pages as indicated below. New or changed material is indicated by a vertical bar in the margin of the page.

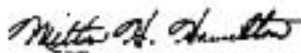
Remove pages  
3 and 4

Insert pages  
3 and 4

3. File this change sheet in front of the publication for reference purposes.

By Order of the Secretary of the Army:

Official:



MILTON H. HAMILTON  
*Administrative Assistant to the  
Secretary of the Army*

GORDON R. SULLIVAN  
*General, United States Army  
Chief of Staff*

Distribution:

To be distributed in accordance with DA Form 12-40-E, Block, 0628, Operator Maintenance requirements for TM 9-1340-214-10.

## CHAPTER 1

### INTRODUCTION

|         |     |                           | Page |
|---------|-----|---------------------------|------|
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## CHAPTER 2

### OPERATION

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|         | II   | CARRYING POSITION.....                      | 13    |
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## CHAPTER 3

### MAINTENANCE

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| SECTION | I  | OPERATOR MAINTENANCE ..... | 29 |
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## **CHAPTER 1**

### **INTRODUCTION**

#### **SECTION I**

#### **GENERAL**

##### **1-1. SCOPE**

THIS MANUAL CONTAINS A DESCRIPTION OF AND INSTRUCTIONS FOR OPERATIONS OF THE 66-MM LIGHT ANTITANK WEAPON (LAW) SYSTEM M72A1, M72A2 WITH COUPLER, AND M72A3.

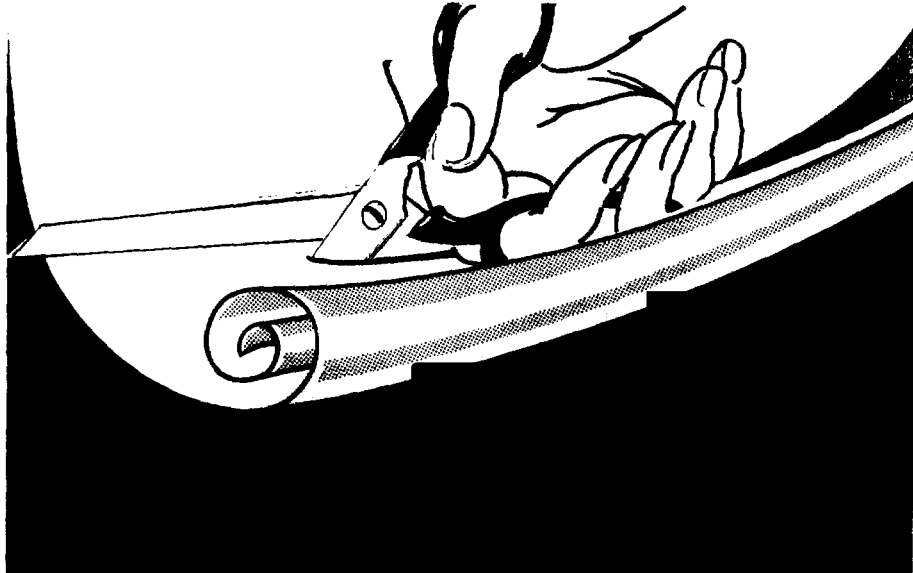
THE OPERATING INSTRUCTIONS FOR THE TACTICAL AND PRACTICE WEAPONS ARE IDENTICAL.

THE PRACTICE LAUNCHER, M190 WITH M73 PRACTICE ROCKET, IS A MODIFIED M72A1 LAUNCHER CONVERTED TO FIRE A 35-MM M73 ROCKET. THE ROCKET, WHICH CONTAINS A SPOTTING CHARGE, SIMULATES THE FIRING OF THE TACTICAL WEAPON. SEE TM 91340-224-12 FOR OPERATOR AND UNIT MAINTENANCE INSTRUCTIONS.

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**CHANGE 1 3**

SECTION II  
A BRIEF DESCRIPTION



THE LAW

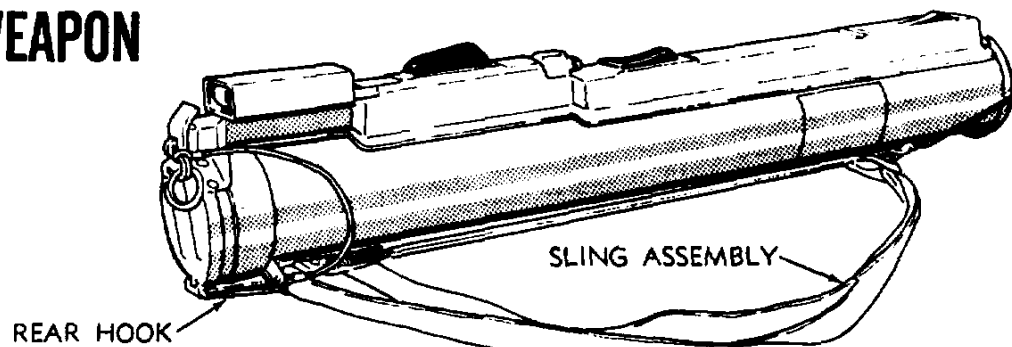
CONSISTS OF A LIGHTWEIGHT SHOULDER-FIRED HEAT ROCKET PREPACKAGED IN A LAUNCHER. END COVERS PROTECTS ROCKET AGAINST DIRT AND MOISTURE. THE WEAPON IS CARRIED SLUNG OVER THE SHOULDER BY AN ATTACHED SLING ASSEMBLY.

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CHANGE 1 4

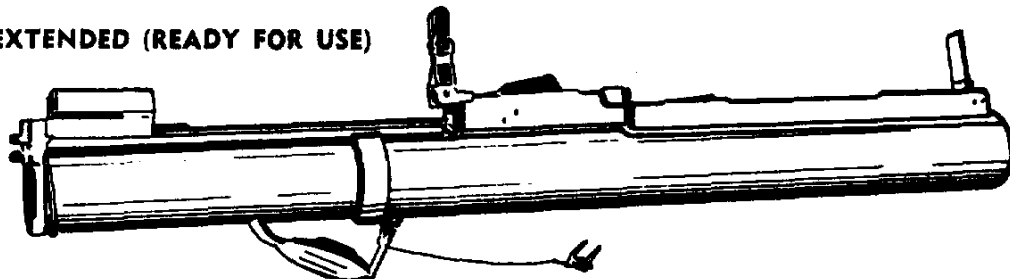


# WEAPON



EXTERNAL VIEW AS ISSUED (NOT EXTENDED)

**EXTENDED (READY FOR USE)**



NOTE: EXTERNAL VIEW OF TACTICAL AND PRACTICE WEAPON ARE IDENTICAL

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# SECTION III

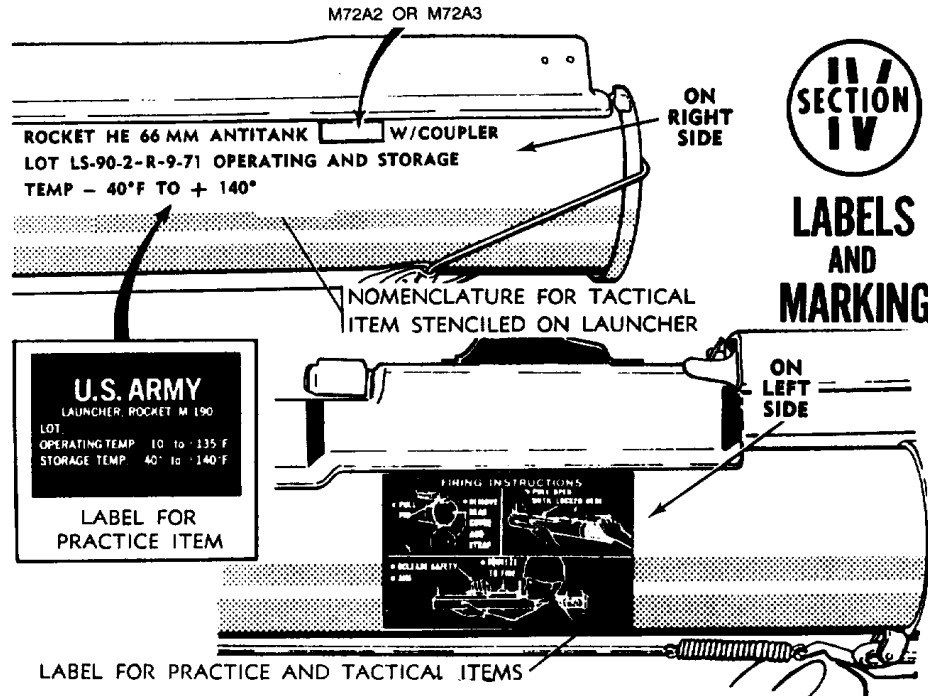
## DATA

### WEAPON DATA

|                          | Tactical                        |                                 | Practice                        |
|--------------------------|---------------------------------|---------------------------------|---------------------------------|
|                          | M72A1                           | M72A2, M72A3                    | Launcher M190<br>w/Rocket M73   |
| Weight                   | 5.1-Lb                          | 5.1-Lb                          | 5.-Lb                           |
| Color Identification     |                                 |                                 |                                 |
| Launcher                 | OD                              | OD                              | OD                              |
| Firing Instruction Label | OD Background<br>White Printing | OD Background<br>White Printing | OD Background<br>White Printing |
| Model, Lot               |                                 |                                 |                                 |
| No, Date                 | OD W/Yellow                     | OD W/Yellow                     | OD W/ Yellow                    |
| Mfg Label                | Printing                        | Printing                        | Printing                        |
| Warhead                  | M72 (Heat)                      | M72A1 (Heat)                    | Spotting Charge                 |
| Complete Length          |                                 |                                 |                                 |
| (Closed) Nominal         | 24.7-In.                        | 24.7-In.                        | 25.3-In.                        |
| (Open) Nominal           | 34.7-In.                        | 34.7-in.                        | 35.4-In.                        |
| Diameter                 | 4.9-In.                         | 4.9-In.                         | 4.9-In.                         |

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# SECTION IV LABELS AND MARKING



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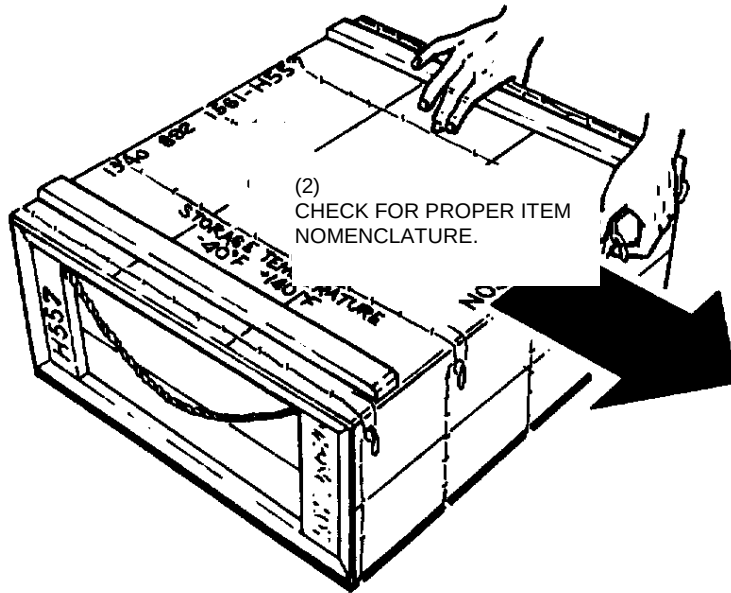
## CHAPTER 2

### OPERATION

#### SECTION I

Following applies to tactical weapon only

#### SERVICE UPON RECEIPT OF MATERIEL

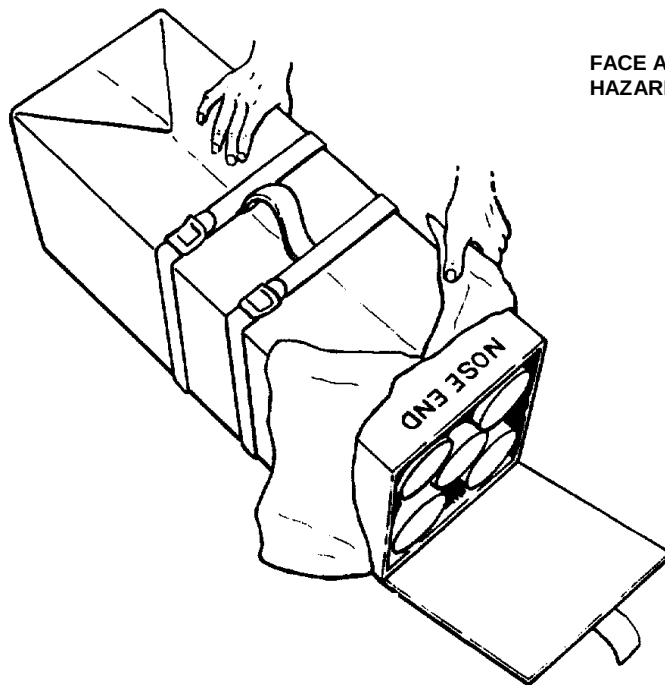


- (1) KEEP MARKING "NOSE END" OF BOX FACING LEAST HAZARDOUS AREA
- (3) STAND TO SIDE, OF "NOSE END" MARKING
- (4) REACH OVER TOP OF BOX AND UNFASTEN WIRE HOOPS

**DO NOT USE SHARP INSTRUMENTS OR HOOKS TO PRY UP BOX COVER OR OPEN INNER PAK**

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AR 4421

- (5) REMOVE FIBERBOARD CONTAINER BY HANDLE
- (6) PULL FLAP AT NOSE END OF BARRIER BAG AND OPEN TO EXPOSE CONTAINER END
- (7) PULL PREPARED TEAR STRIPS OFF CONTAINER END AND REMOVE COVER
- (8) REMOVE CUSHIONING AND WEAPON



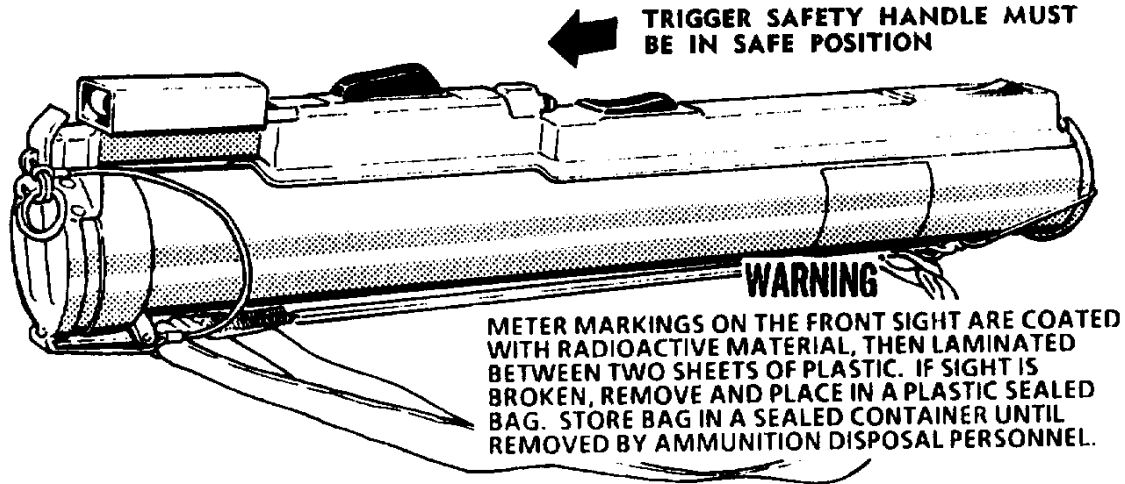
FACE AREA OF LEAST  
HAZARD

**FOLLOWING APPLIES TO TACTICAL AND PRACTICE WEAPONS**

**CHECK EACH WEAPON SYSTEM FOR**

CRACKED TUBE  
DENTED PARTS  
MISSING PARTS  
LOOSE PARTS

FRAYED SLING  
LOOSE OR BENT REAR HOOK  
LOOSE OR DAMAGED SAFETY MECHANISMS  
BLURRED OR INCORRECT NOMENCLATURE



**WARNING**  
**DO NOT EXTEND LAUNCHER UNTIL READY FOR USE**

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**FOR TACTICAL WEAPONS ONLY.**

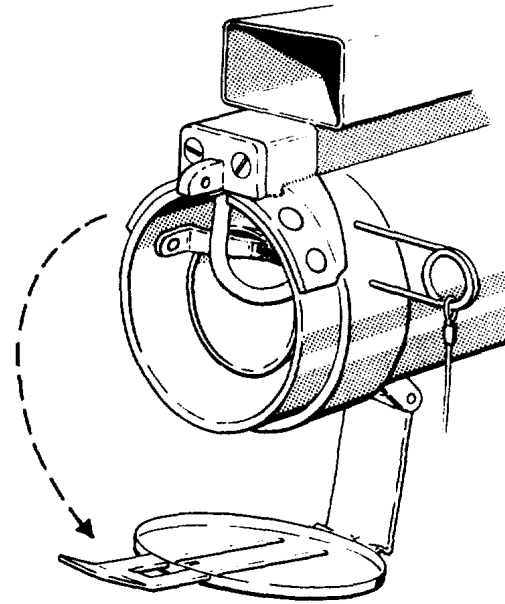
**IF TIME PERMITS**

**CHECK IGNITER FOR DAMAGE  
(BROKEN, CRACKED OR SPLIT)**

**(SEE INSTRUCTIONS FOR REMOVING CARRYING SLING)**

**IF SO DAMAGED**

**TAPE DAMAGED IGNITERS TO PREVENT LOSS OF IGNITION  
MATERIAL. REPLACE SLING ASSEMBLY. CLOSE REAR COVER  
AND REPLACE PULL PIN.**



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SECTION II  
CARRYING POSITION

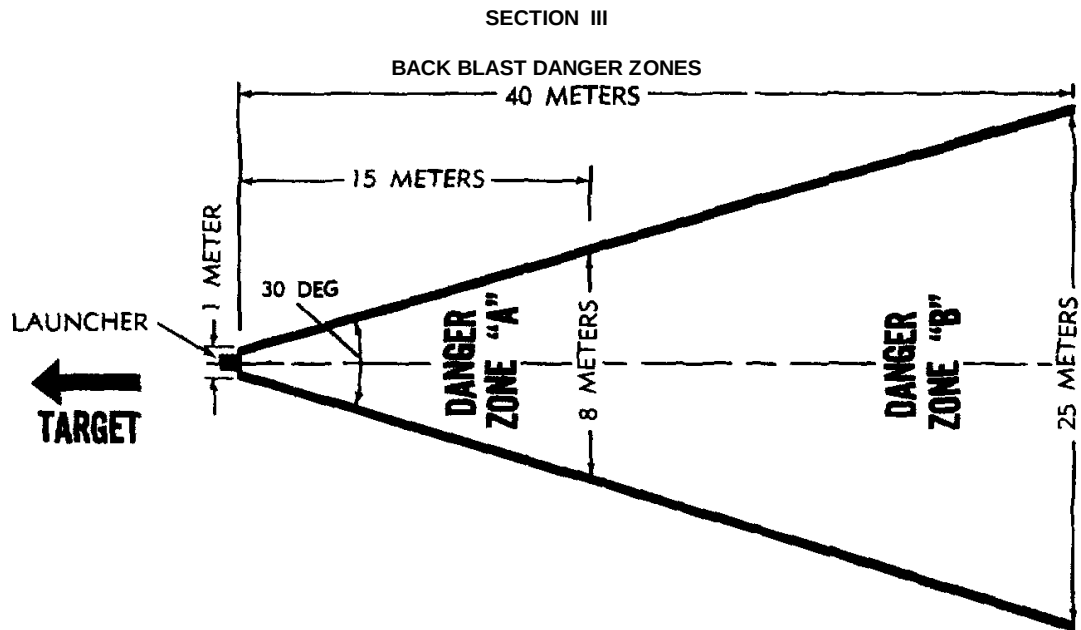
TO CARRY

SLING OVER SHOULDER

WARNING

DO NOT CARRY WEAPON IN EXTENDED POSITION.





#### **WARNING**

#### **DO NOT FIRE UNLESS..**

1. Back blast area is clear of personnel and obstructions.
2. Body extremities are clear of Rocket exhaust end.

#### **ZONE "A"**

DANGER IN THIS AREA FROM BLAST, HEAT, AND PROJECTED MATERIALS.

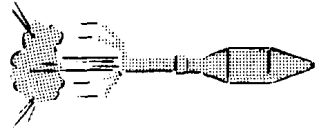
#### **ZONE "B"**

DANGER IN THIS AREA FROM PROJECTED MATERIALS

## SECTION IV

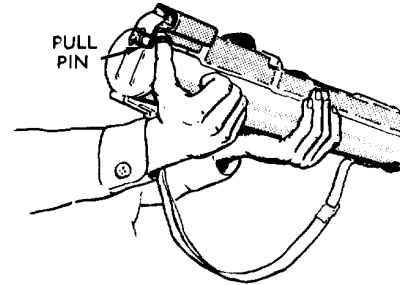
### PREPARATION FOR FIRING

All weapons

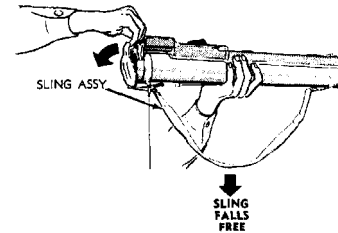


(1) The following Steps Are Performed At The Firing Point.

(2) REMOVE PULL PIN

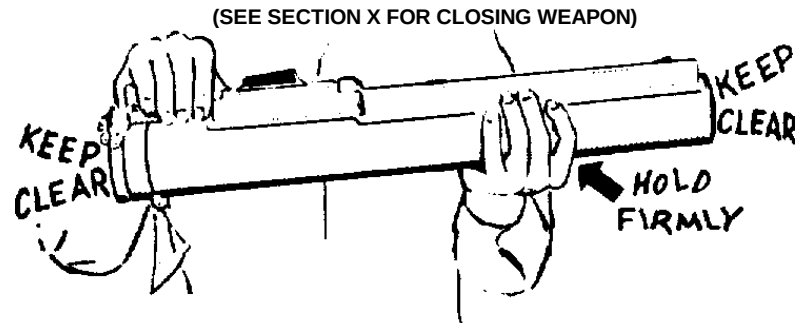


(3) SWING COVER DOWN



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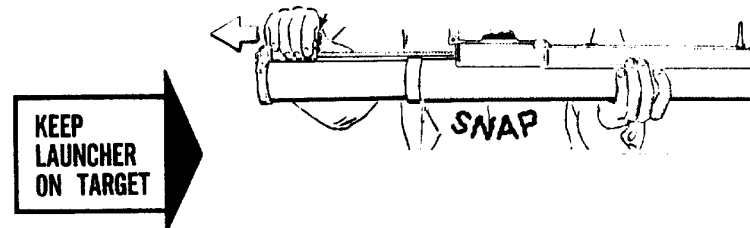
IF TWO ATTEMPTS TO LOCK LAUNCHER OPEN FAIL - CLOSE AND SET SYSTEM ASIDE FOR DISPOSAL BY AUTHORIZED AMMUNITION PERSONNEL



(4) HOLD LAUNCHER SLIGHTLY AWAY BODY

(5) GRASP REAR SIGHT COVER - HOLD FIRMLY

BE SURE LAUNCHER SNAPS INTO "LOCKED POSITION"



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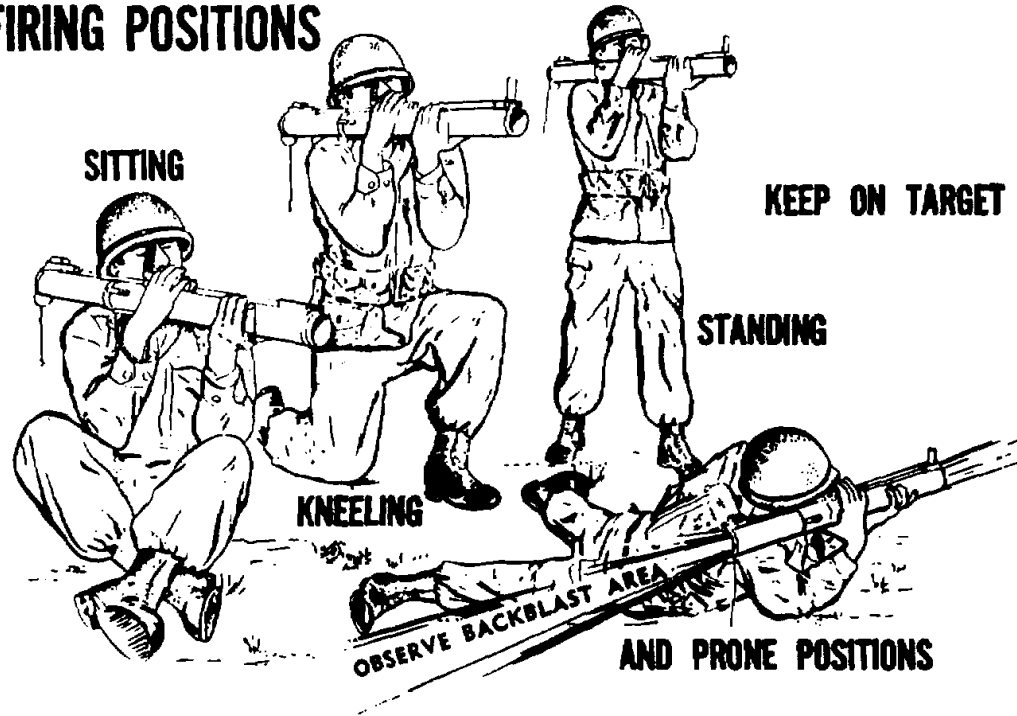
(6) EXTEND BY PUSHING OUT WITH RIGHT HAND

WARNING EXTENDING THE WEAPON TOO SLOWLY CAN RESULT IN FAILURE TO COCK THE WEAPON

SECTION V

FIRING POSITIONS

# FIRING POSITIONS



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## SECTION VI

READY

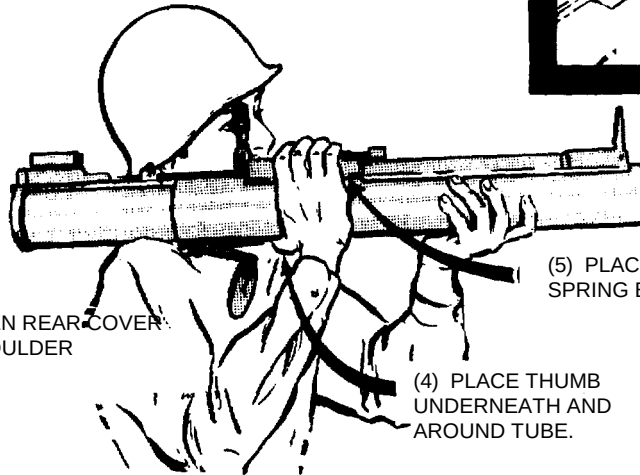
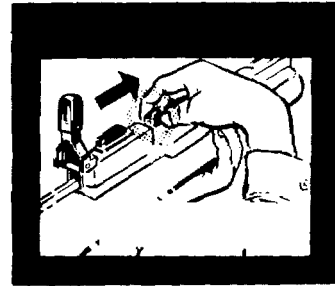
WARNING

WEAR EAR PLUGS WHEN FIRING THE WEAPON.

WARNING

WEAR EAR PLUGS WHEN FIRING THE  
WEAPON

- (2) PLACE SIGHT AT EASY READING  
DISTANCE.



- (1) REST OPEN REAR COVER  
AGAINST SHOULDER

- (3) MOVE SAFETY TO  
ARM

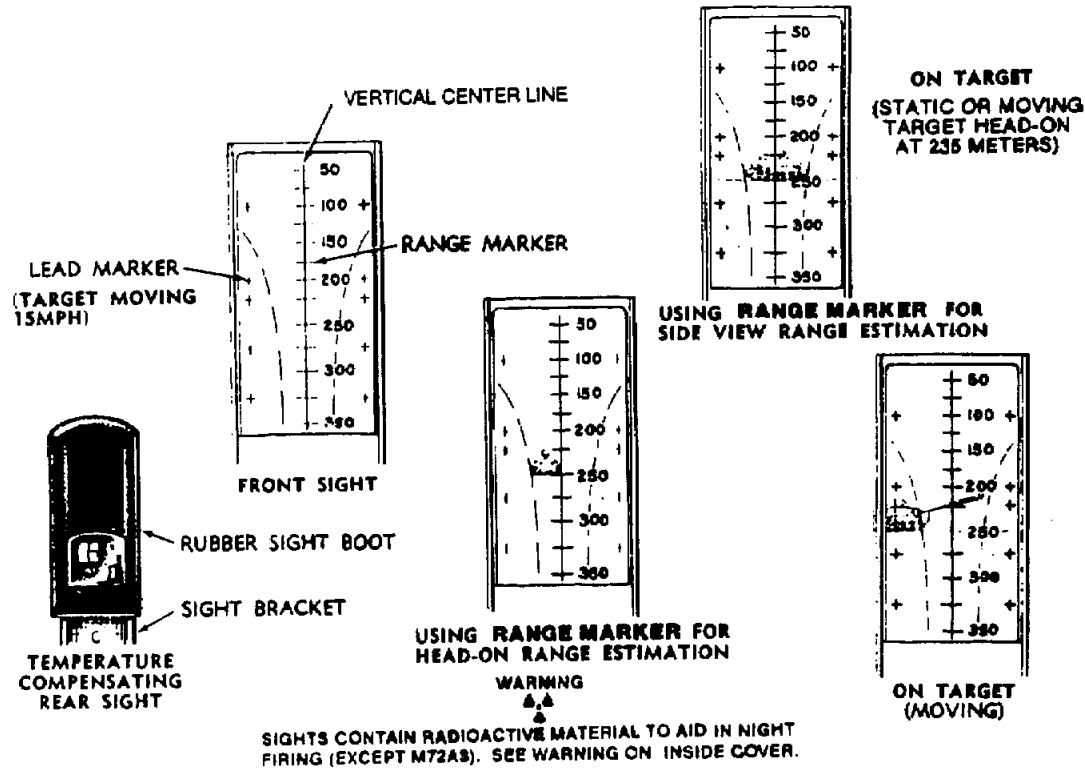
- (5) PLACE FINGERTIPS ON TRIGGER  
SPRING BOOT AS FAR BACK AS POSSIBLE.

- (4) PLACE THUMB  
UNDERNEATH AND  
AROUND TUBE.

**TARGET**  
→

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# SECTION VII AIM



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## SECTION VIII

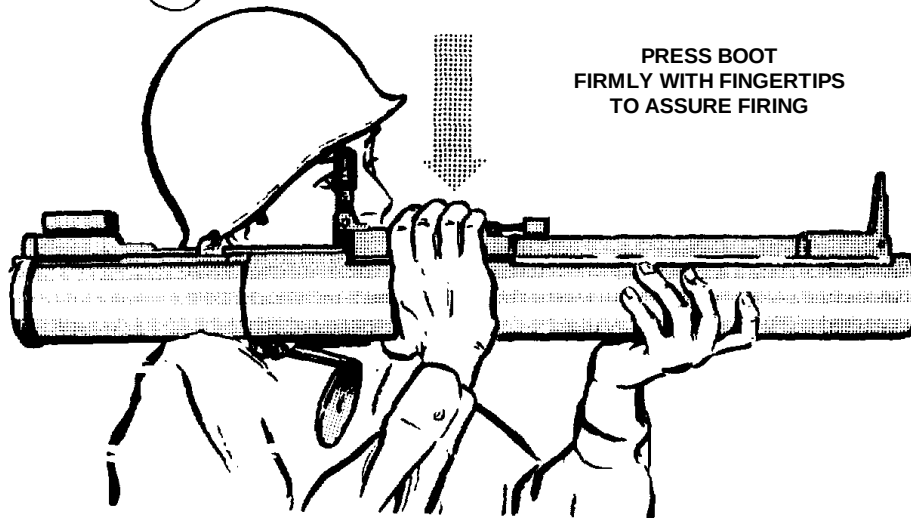
### FIRE

KEEP LAUNCHER  
ON TARGET  
IF SYSTEM DOES  
NOT FIRE FOLLOW  
INSTRUCTIONS IN

III  
SECTION  
1A

(6) SQUEEZE TRIGGER BY DEPRESSING  
TRIGGER SPRING BOOT

PRESS BOOT  
FIRMLY WITH FINGERTIPS  
TO ASSURE FIRING

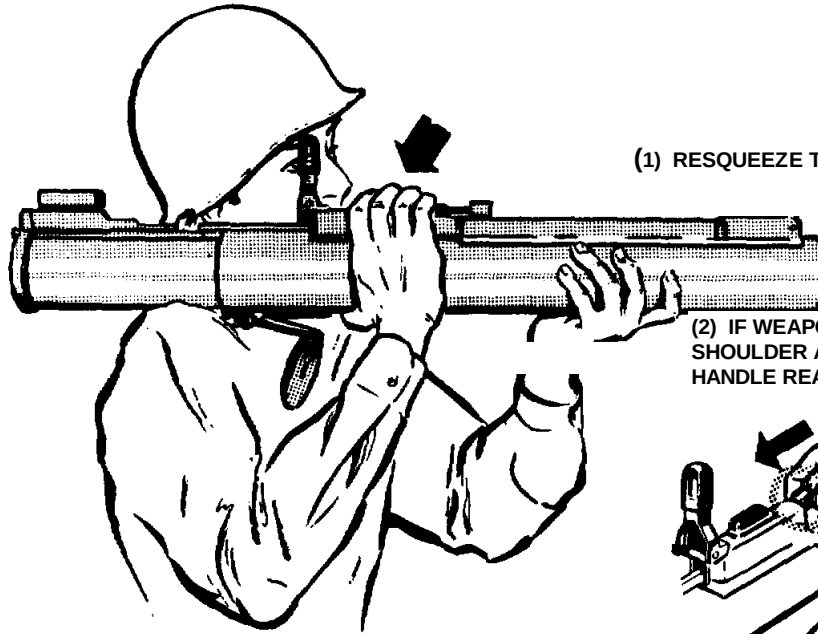


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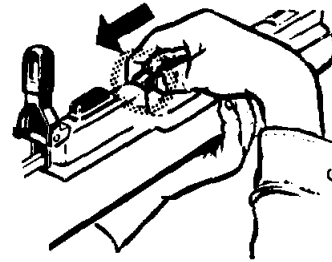
## SECTION IX

### FAILURE OF WEAPON TO FIRE IMMEDIATELY



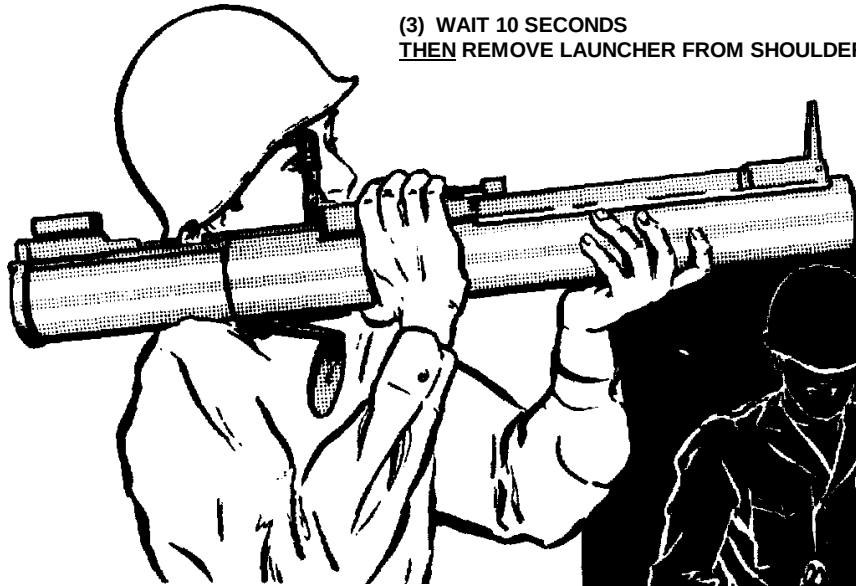
(1) RESQUEEZE TRIGGER FIRMLY

(2) IF WEAPON DOES NOT FIRE KEEP ON SHOULDER AND PUSH TRIGGER SAFETY HANDLE REARWARD TO "SAFE" POSITION



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AR 4433

(3) WAIT 10 SECONDS  
THEN REMOVE LAUNCHER FROM SHOULDER

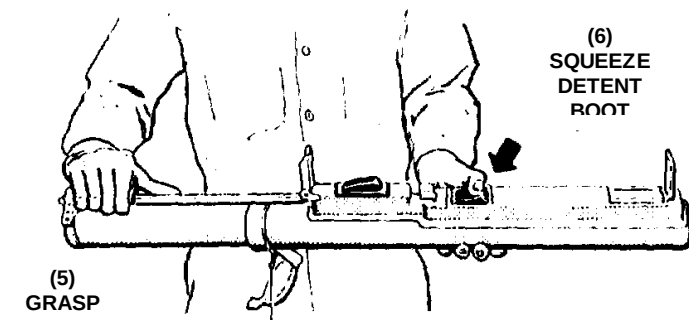


(4) WAIT 1 MINUTE BEFORE RECOCKING

If time is not available lay weapon down pointing at target -  
abandon



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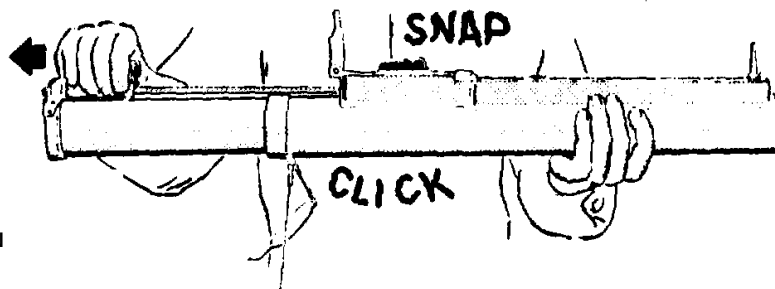


(6)  
SQUEEZE  
DETENT  
ROOT

**KEEP ON  
TARGET**

(5)  
GRASP  
REAR  
SIGHT  
SIGHTING

(7) PARTIALLY CLOSE LAUNCHER (APPROXIMATELY 4  
INCHES)



(8)  
SHARPLY SNAP  
LAUNCHER OPEN  
INTO LOCKED POSITION

**SNAP**

**CLICK**

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AR 4435

(9) PLACE LAUNCHER BACK ON SHOULDER

**KEEP  
LAUNCHER  
ON  
TARGET**

(10) PULL SAFETY FORWARD TO "ARM"



(11) AIM

(12) DEPRESS TRIGGER BOOT FIRMLY TO FIRE

**IF A RECOCKED WEAPON WHICH  
HAS MISFIRED STILL DOES  
NOT FIRE, PUSH TRIGGER  
SAFETY HANDLE TO "SAFE"  
POSITION AND WAIT  
10 SECONDS**

**THEN**

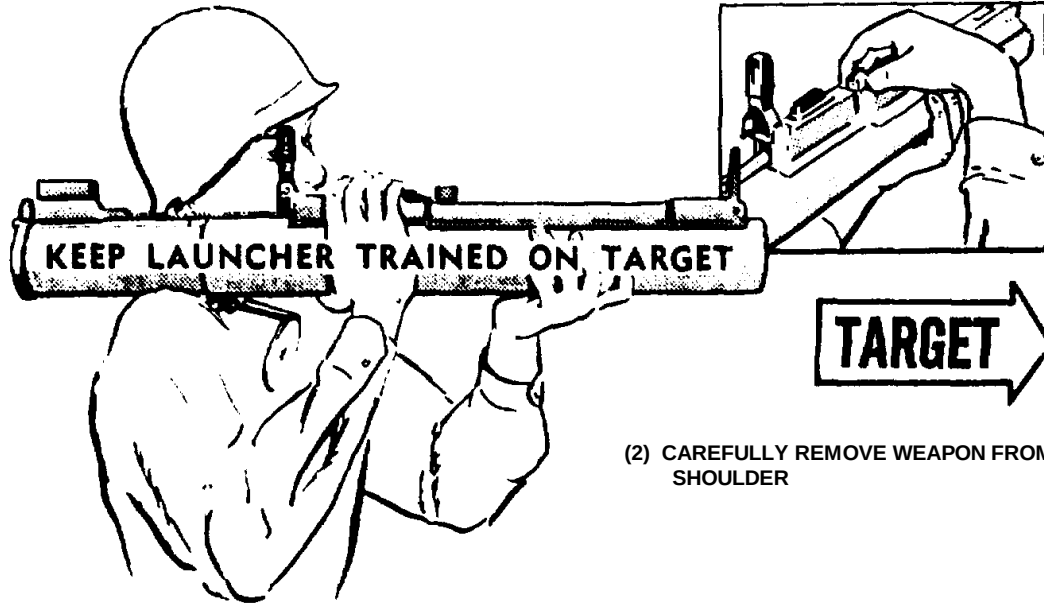
**CAREFULLY LAY WEAPON ON GROUND FACING  
TARGET AND EVACUATE AREA**

**NOTIFY AUTHORIZED DISPOSAL MUNITION  
PERSONNEL FOR DISPOSAL OF WEAPON**

SECTION X

PREPARED FOR - BUT NOT FIRED

(1) RETURN SAFETY TO SAFE

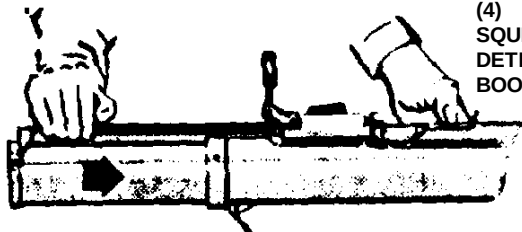


(2) CAREFULLY REMOVE WEAPON FROM  
SHOULDER

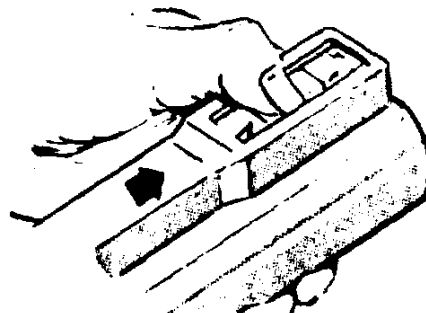
- (3) GRASP LAUNCHER  
BY REAR SIGHT  
HOUSING



- (7) GRASP LAUNCHER  
NEAR FRONT SIGHT  
AND  
HOLD DOWN FRONT SIGHT



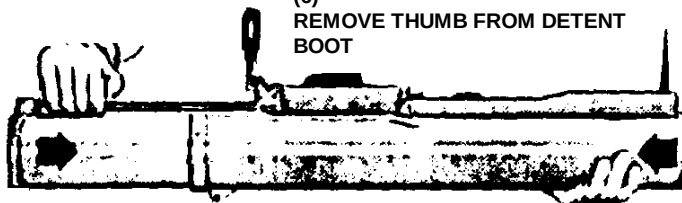
- (4) SQUEEZE  
DETENT  
BOOT



- (5) SLIDE INNER TUBE INTO OUTER  
TUBE APPROXIMATELY TWO  
INCHES

- (8) COMPRESS UNTIL  
EDGE OF INNER TUBE  
TOUCHES THUMB LIGHTLY

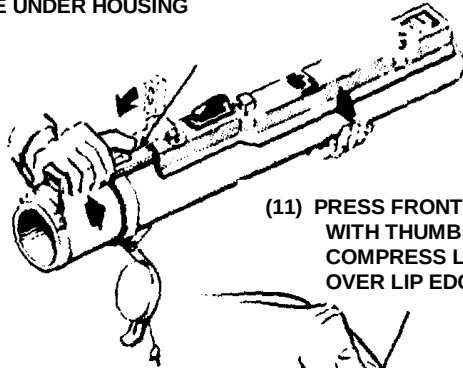
- (6) REMOVE THUMB FROM DETENT  
BOOT



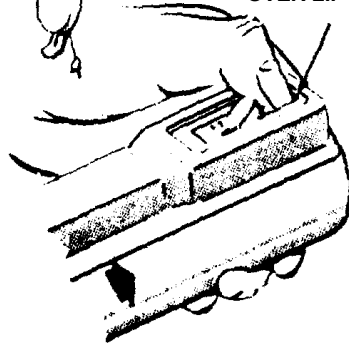
PERFORM ALL COMPRESSION ACTIONS  
SLOWLY TO AVOID INJURY TO FINGERS

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(9) FOLD DOWN REAR SIGHT  
AND GUIDE UNDER HOUSING

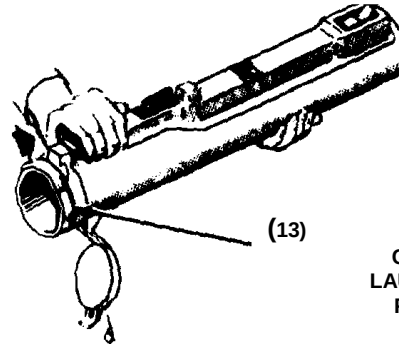


(11) PRESS FRONT SIGHT LIP  
WITH THUMB AND SLOWLY  
COMPRESS LAUNCHER  
OVER LIP EDGE



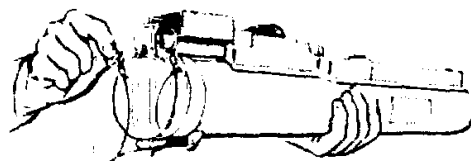
(10) COMPRESS LAUNCHER UNTIL TRAVEL IS  
STOPPED BY LIP ON FRONT SIGHT

(12) REMOVE THUMB FROM  
FRONT SIGHT AND GRASP  
HOUSING



(13)  
CLOSE  
LAUNCHER  
FULLY

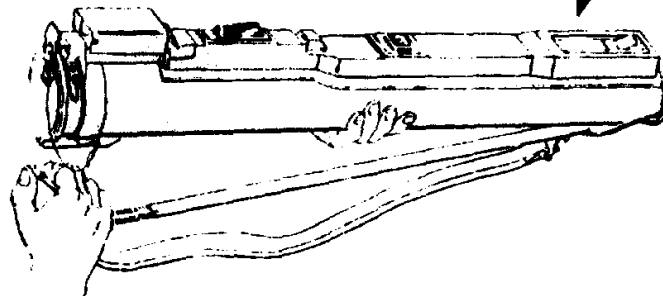
(14)  
REPLACE COVER PIN



**KEEP LAUNCHER  
POINTED DOWN RANGE**

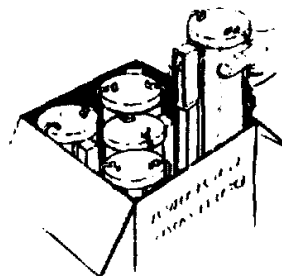


(15) REPLACE BUFFER PLATE  
(M72A3 ONLY)



(16)  
REPLACE SLING ASSEMBLY

**LAUNCHER AND PACKING  
SHOULD BE MARKED OR  
TAGGED TO INDICATE  
LAUNCHER HAS BEEN  
EXTENDED**



**WHEN POSSIBLE  
ONCE - EXTENDED  
LAUNCHER SHOULD  
BE RETURNED TO  
ORIGINAL PACKING**



**CHAPTER 3**

**MAINTENANCE**

**SECTION I**

**OPERATOR MAINTENANCE**

**NORMAL CONDITION**

KEEP LAW CLEAN AND DRY

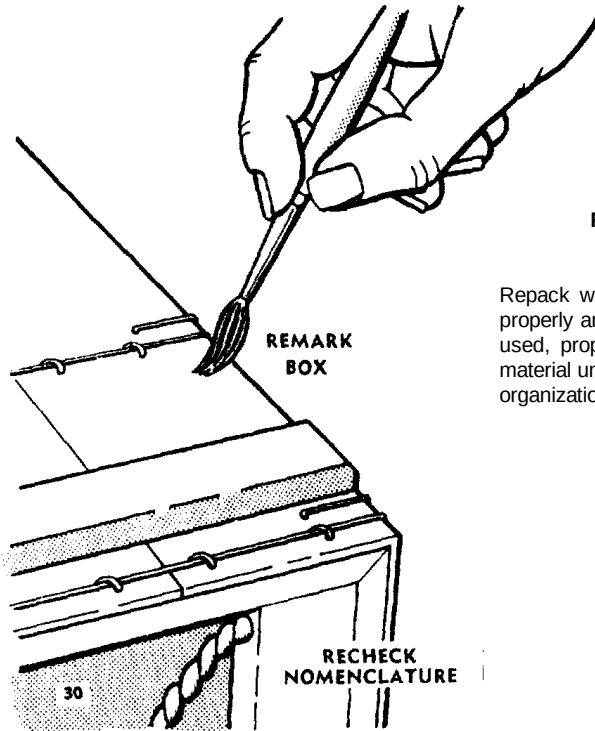
**UNUSUAL CONDITIONS**

PROTECT LAW FROM MOISTURE,  
SNOW, SLEET, CLEAN AS REQUIRED

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## SECTION II

### REPACK



### RETURN ALL DEFECTIVE WEAPON SYSTEMS TO AUTHORIZED MUNITIONS PERSONNEL

Repack weapon system in original packing box. Make sure box is properly and clearly marked. If box other than original packing box is used, properly mark container to indicate contents. Protect packed material until shipped. Ship all packed launchers or systems to issuing organization or other authorized personnel as soon as possible

### EXERCISE CARE IN RETURN OF USED LAUNCHERS AS THEY WILL BE REWORKED INTO THE PRACTICE WEAPON SYSTEM

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AR 4442

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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☆ U. S. GOVERNMENT PRINTING OFFICE: 1993 - 342-421 (81131)

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AR 4444

# WE NEED TO KNOW

ERROR, OMISSION OR  
SUGGESTION FOR IMPROVEMENT

PLEASE WRITE

Commander  
U.S. Army Armament, Munitions  
and Chemical Command  
ATTN: AMSMC-MAY-T (D)  
Picatinny Arsenal, NJ 07806-5000

USE DA FORM 2028



**MALFUNCTION REPORTS**  
MALFUNCTION REPORTS TO BE SUBMITTED  
IN ACCORDANCE WITH AR 75-1

TECHNICAL MANUAL

NO. 9-1340-214-10

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
Washington, DC, 31 May 1991

By Order of the Secretary of the Army:

CARL E. VUONO  
*General, United States Army*  
*Chief of Staff*

Official:

THOMAS F SIKORA  
*Brigadier General, United States Army*  
*The Adjutant General*

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\* This manual supersedes TM 9-1340-214-10, dated January 1986.

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