OPERATORS MANUAL

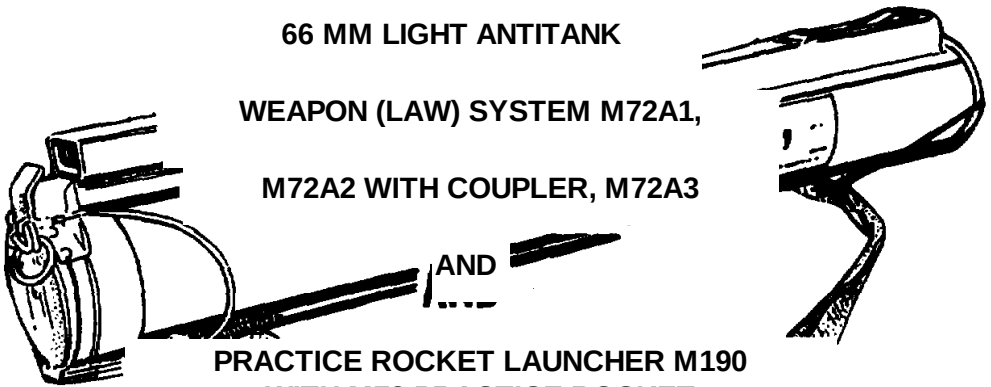
FOR

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.

DEPARTMENT OF THE ARMY
This manual supersedes TM 9-1340-214-10, January 1986

31 MAY 1991

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.

U
AR 4412

Change)
)
No. 1)

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

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.

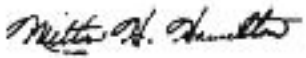
Remove pages	Insert pages
3 and 4	3 and 4

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

By Order of the Secretary of the Army:

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

Official:



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

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
SECTION	I	GENERAL	3
	II	A BRIEF DESCRIPTION	4-5
	III	DATA	6
	IV	LABELS AND MARKING	7-8

CHAPTER 2

OPERATION

			Page
SECTION	I	SERVICE UPON RECEIPT OF MATERIEL	9-12
	II	CARRYING POSITION	13
	III	BACK BLAST DANGER ZONES	14
	IV	PREPARATION FOR FIRING	15-16
	V	FIRING POSITIONS .	17
	VI	READY .	18
	VII	AIM	19
	VIII	FIRE	20
	IX	FAILURE OF WEAPON TO FIRE IMMEDIATELY	21-24
	X	PREPARED FOR - BUT NOT FIRED	25-28

CHAPTER 3

MAINTENANCE

SECTION	I	OPERATOR MAINTENANCE	29
	II	REPACK	30

U
AR 4413

THIS PAGE INTENTIONALLY LEFT BLANK

CHAPTER 1

INTRODUCTION

SECTION I

GENERAL

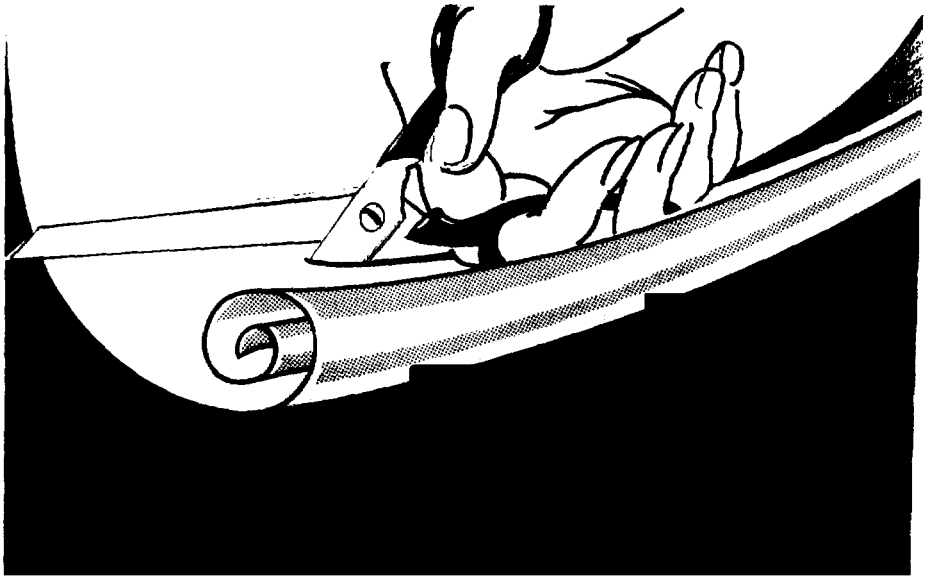
1-1. SCOPE

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.

SECTION II
A BRIEF DESCRIPTION

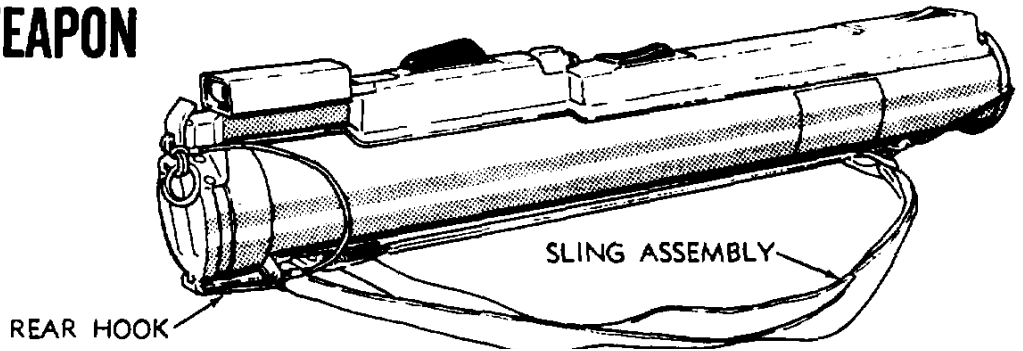


THE LAW

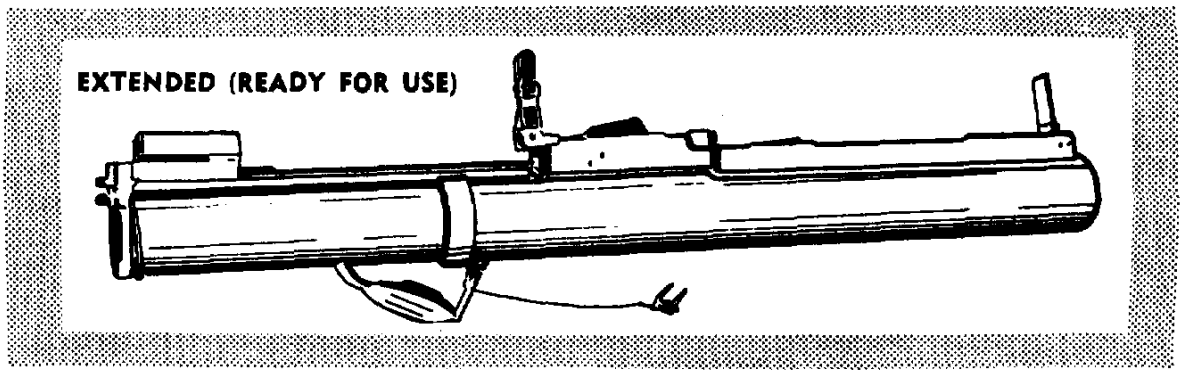
CONSISTS OF A LIGHTWEIGHT SHOULDER-FIRED HEAT ROCKET PREPACKAGED IN A LAUNCHER. END COVERS PROTECTS ROCKET AGAINST DIRT AND MOISTURE. THE WEAPON IS CARRIED SLUNG OVER THE SHOULDER BY AN ATTACHED SLING ASSEMBLY.

U
AR 4416A

WEAPON



EXTERNAL VIEW AS ISSUED (NOT EXTENDED)



NOTE: EXTERNAL VIEW OF TACTICAL AND PRACTICE WEAPON ARE IDENTICAL

U
AR 4417

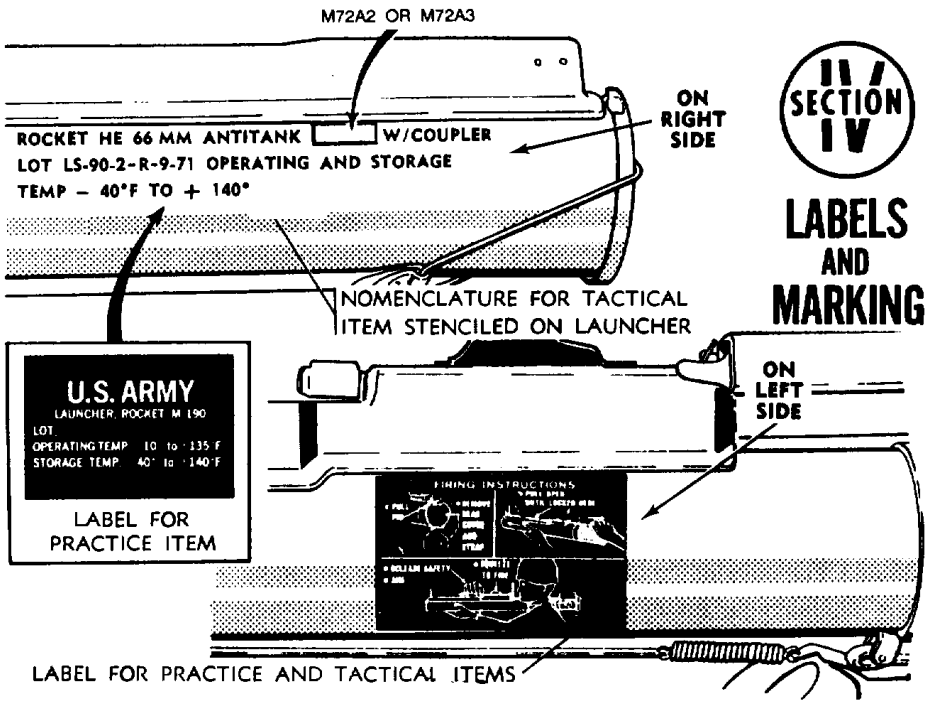
SECTION III

DATA

WEAPON DATA

	Tactical		Practice
	M72A1	**M72A2, M72A3**	**Launcher M190 w/Rocket M73**
Weight	5.1-Lb	5.1-Lb	5.-Lb
Color Identification			
Launcher	OD	OD	OD
Firing Instruction Label	OD Background White Printing	OD Background White Printing	OD Background White Printing
Model, Lot No, Date Mfg Label	OD W/Yellow Printing	OD W/Yellow Printing	OD W/ Yellow 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.

U
AR 4418


M72A2 OR M72A3
ROCKET HE 66 MM ANTITANK W/COUPLER
LOT LS-90-2-R-9-71 OPERATING AND STORAGE
TEMP – 40°F TO + 140°
ON RIGHT SIDE
SECTION IV
LABELS AND MARKING
NOMENCLATURE FOR TACTICAL ITEM STENCILED ON LAUNCHER
ON LEFT SIDE
U.S. ARMY
LAUNCHER, ROCKET M 190
LOT
OPERATING TEMP 10 to 135 F
STORAGE TEMP. 40° to 140°F
LABEL FOR PRACTICE ITEM
FIRING INSTRUCTIONS
LABEL FOR PRACTICE AND TACTICAL ITEMS

U
AR 4419

THIS PAGE LEFT INTENTIONALLY BLANK

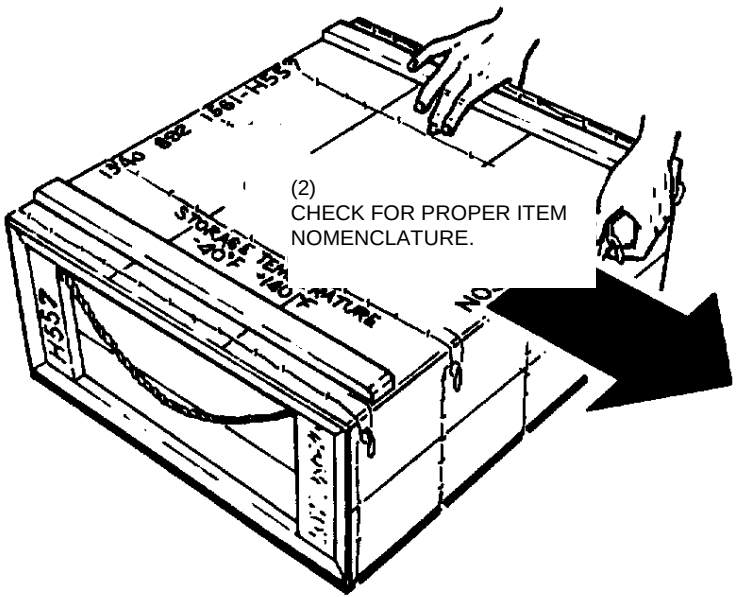
CHAPTER 2

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

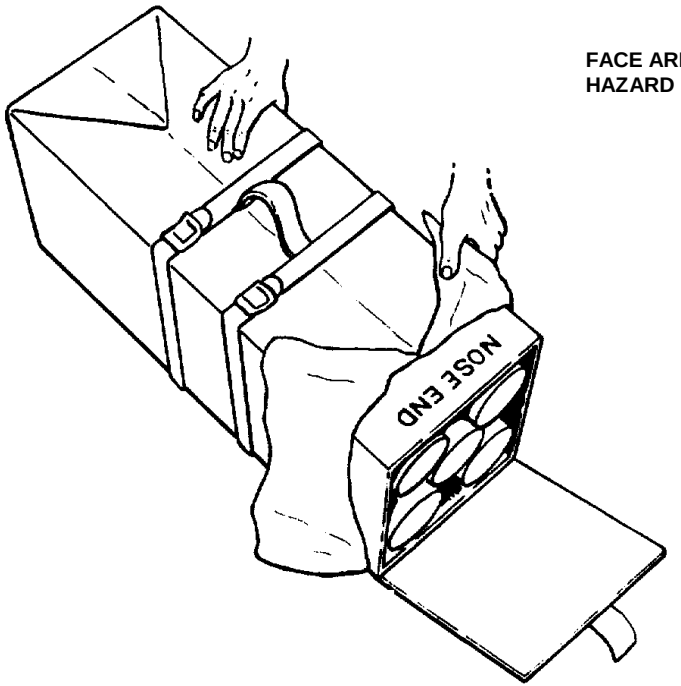
U
AR 4421

(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



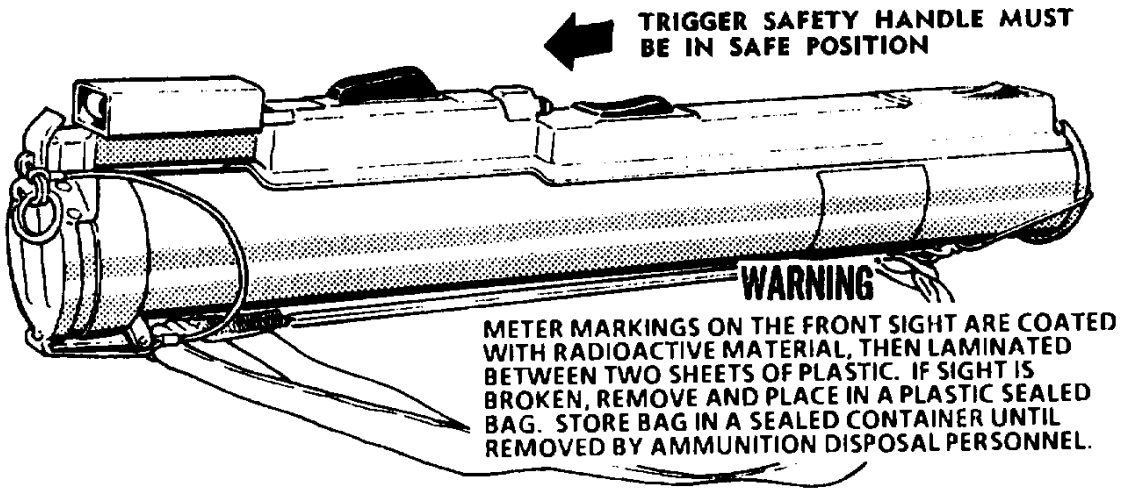
FACE AREA OF LEAST HAZARD

U
AR 4422

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

U
AR 4423

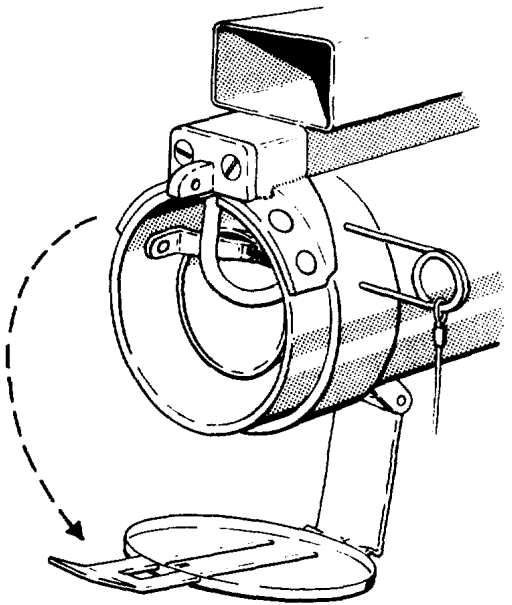
IF TIME PERMITS

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.



U
AR 4424

SECTION II

CARRYING POSITION

TO CARRY

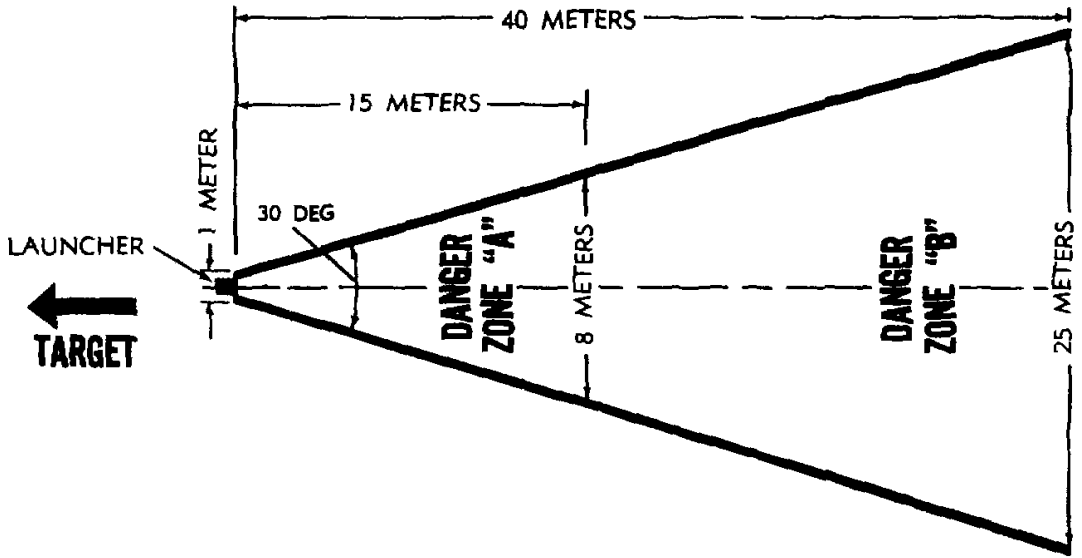
SLING OVER SHOULDER

WARNING

DO NOT CARRY WEAPON IN EXTENDED POSITION.

U
AR 4425

BACK BLAST DANGER ZONES



WARNING

DO NOT FIRE UNLESS..

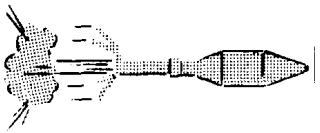
1. Back blast area is clear of personnel and obstructions.
2. Body extremities are clear of Rocket exhaust end.

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

ZONE "B"
DANGER IN THIS AREA FROM PROJECTED MATERIALS

U
AR 4426

SECTION IV



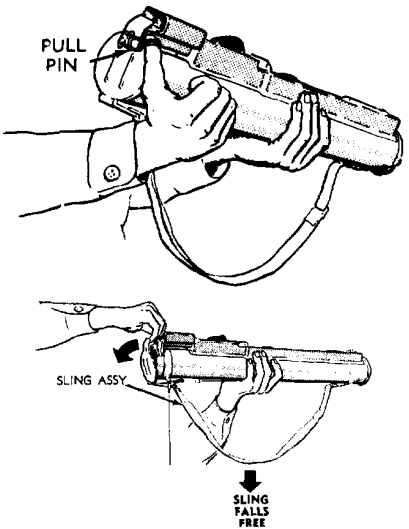
PREPARATION FOR FIRING

All weapons

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

(2) REMOVE PULL PIN

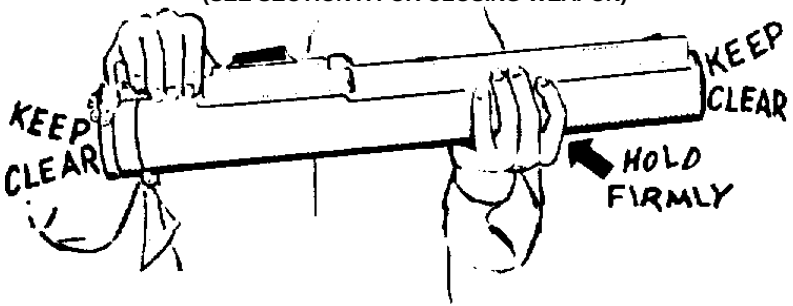
(3) SWING COVER DOWN



U
AR 4427

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

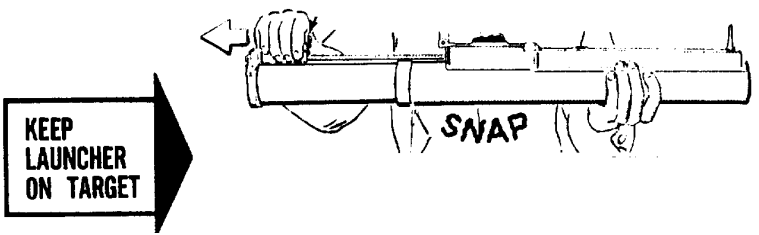
(SEE SECTION X FOR CLOSING WEAPON)



(4) HOLD LAUNCHER SLIGHTLY AWAY BODY

(5) GRASP REAR SIGHT COVER - HOLD FIRMLY

BE SURE LAUNCHER SNAPS INTO "LOCKED POSITION"

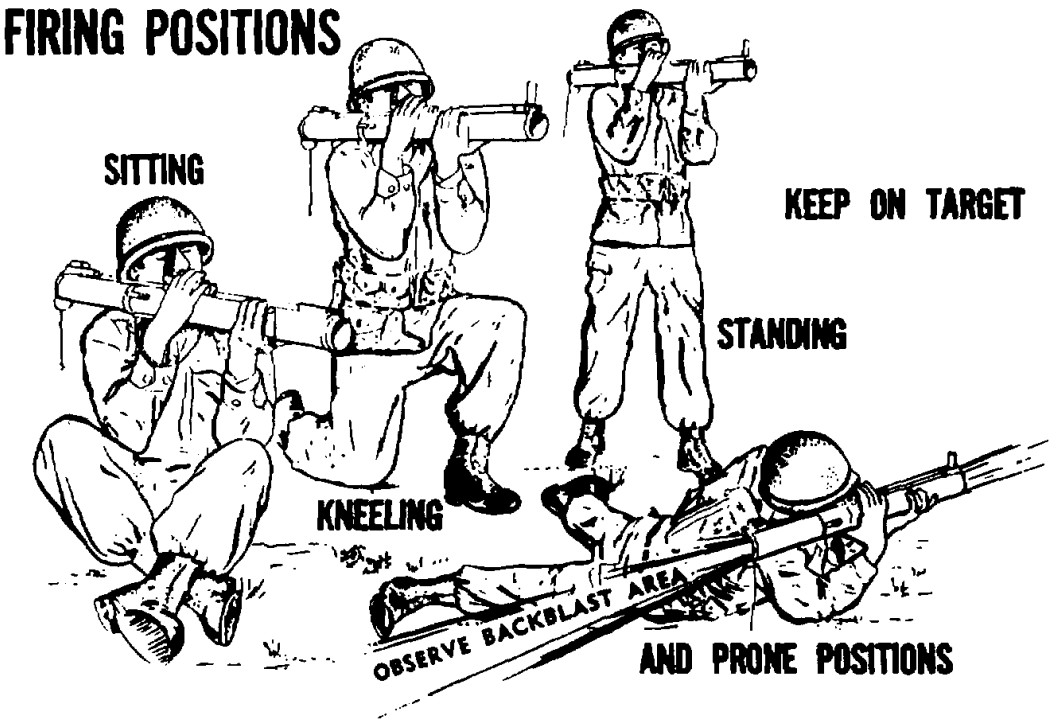


U
AR4428

(6) <u>EXTEND</u> BY PUSHING OUT WITH RIGHT HAND

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

FIRING POSITIONS



U
AR 4429

SECTION VI

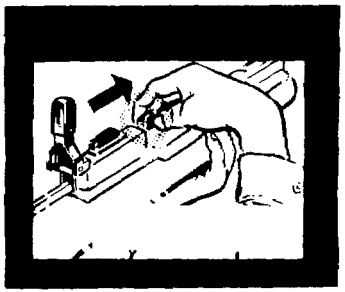
READY

WARNING

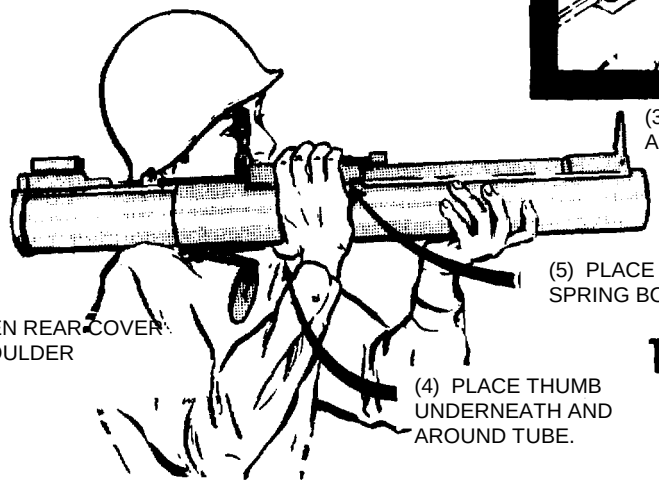
WEAR EAR PLUGS WHEN FIRING THE WEAPON.

WARNING
WEAR EAR PLUGS WHEN FIRING THE WEAPON

(2) PLACE SIGHT AT EASY READING DISTANCE.



(3) MOVE SAFETY TO ARM



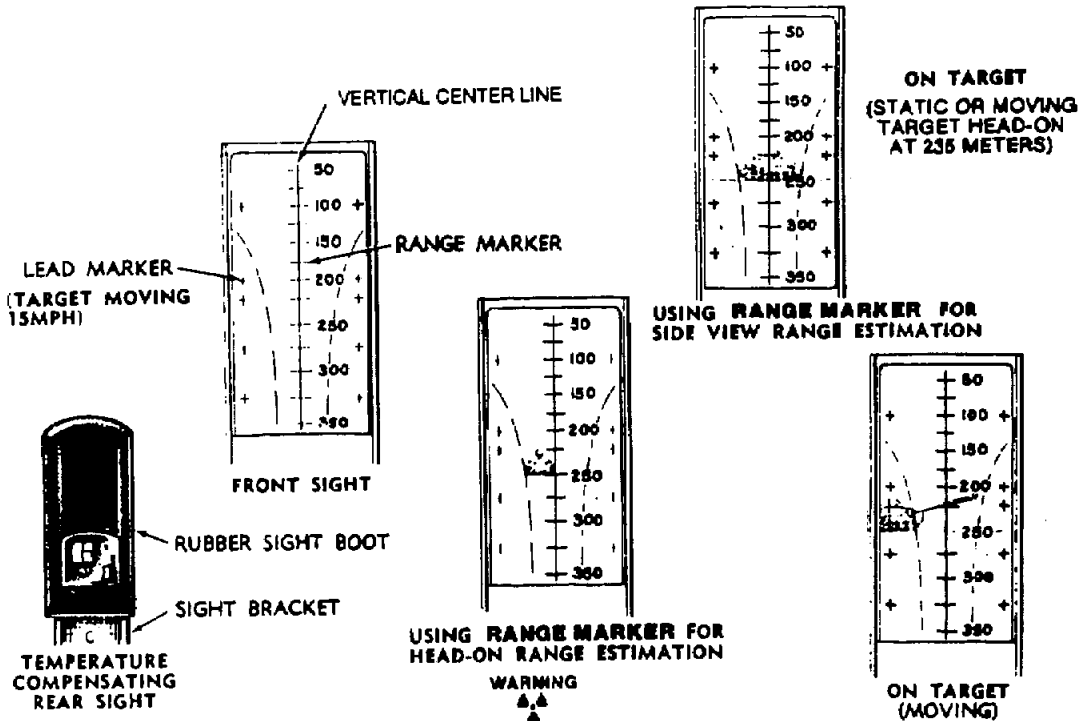
(5) PLACE FINGERTIPS ON TRIGGER SPRING BOOT AS FAR BACK AS POSSIBLE.

(1) REST OPEN REAR COVER AGAINST SHOULDER

TARGET

(4) PLACE THUMB UNDERNEATH AND AROUND TUBE.

U
AR 4430

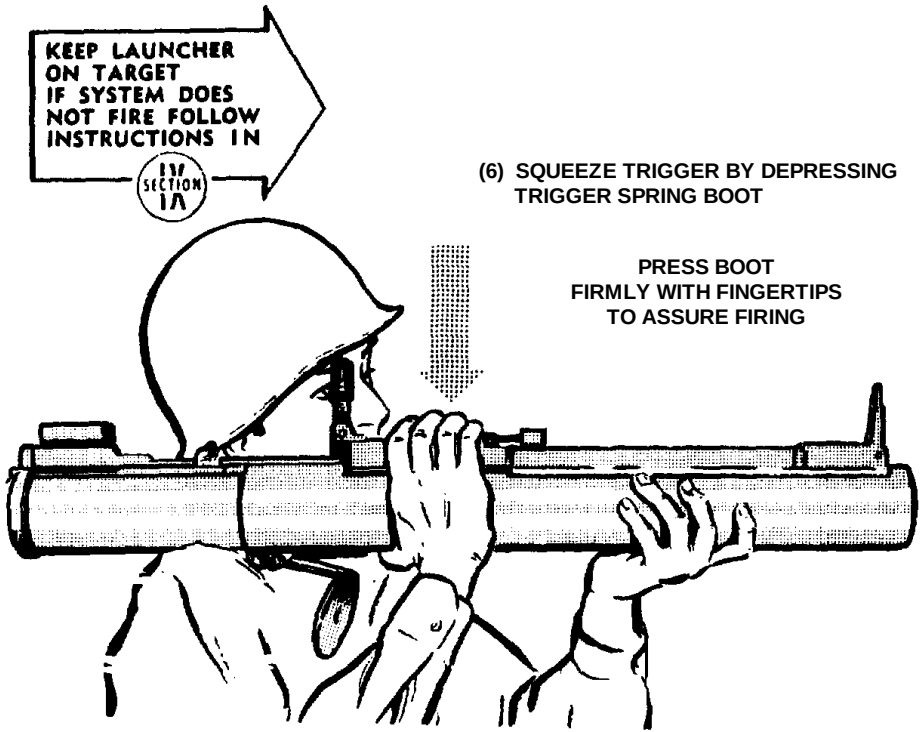


WARNING

SIGHTS CONTAIN RADIOACTIVE MATERIAL TO AID IN NIGHT FIRING (EXCEPT M72A8). SEE WARNING ON INSIDE COVER.

U
AR 4431

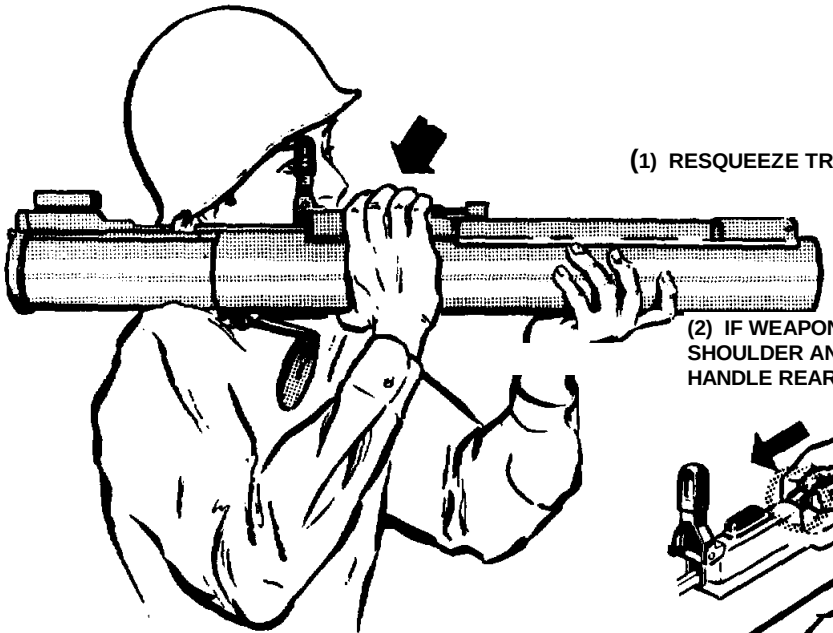
FIRE



U
AR 4432

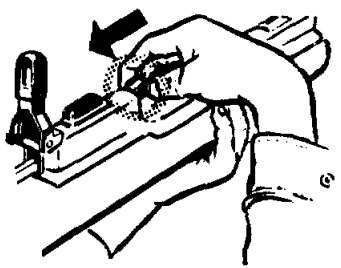
SECTION IX

FAILURE OF WEAPON TO FIRE IMMEDIATELY



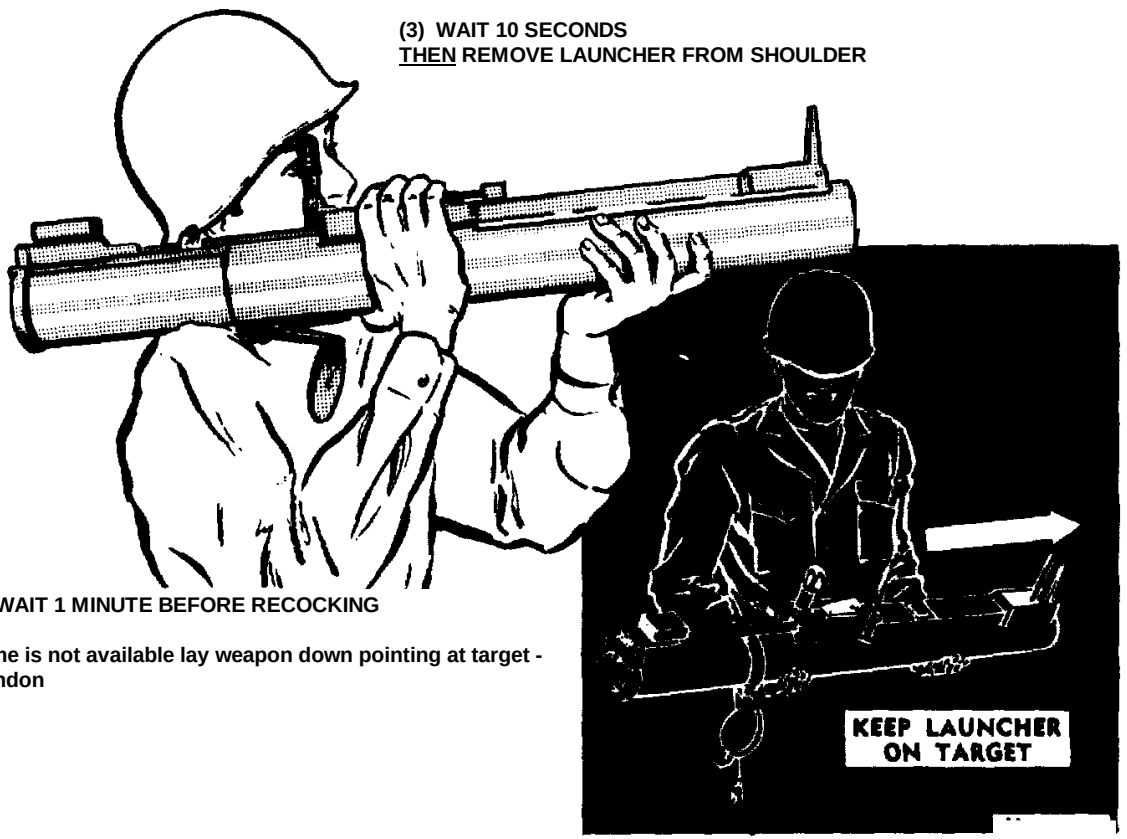
(1) RESQUEEZE TRIGGER FIRMLY

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



U
AR 4433

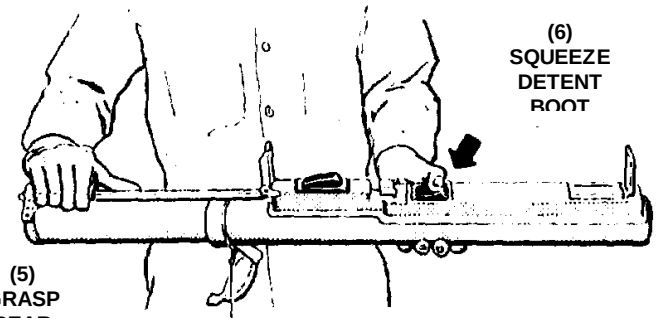
(3) WAIT 10 SECONDS
<u>THEN</u> REMOVE LAUNCHER FROM SHOULDER



(4) WAIT 1 MINUTE BEFORE RECOCKING

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

U
AR 4434

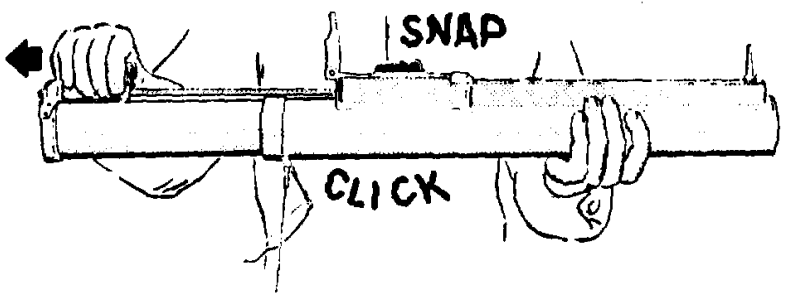


(6)
SQUEEZE
DETENT
BOOT

KEEP ON TARGET

(5)
GRASP
REAR
SIGHT
SIGHTING

(7) PARTIALLY CLOSE LAUNCHER (APPROXIMATELY 4 INCHES)



(8)
SHARPLY SNAP
LAUNCHER OPEN
INTO LOCKED POSITION

U
AR 4435

(9) PLACE LAUNCHER BACK ON SHOULDER

(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

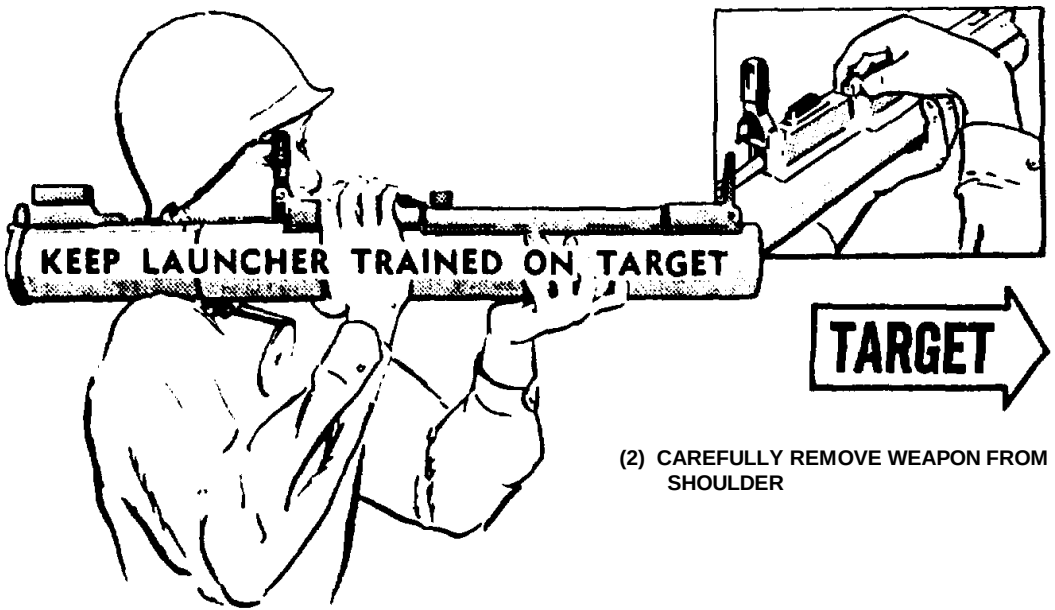
NOTIFY AUTHORIZED DISPOSAL MUNITION PERSONNEL FOR DISPOSAL OF WEAPON

U
AR 4436

SECTION X

PREPARED FOR - BUT NOT FIRED

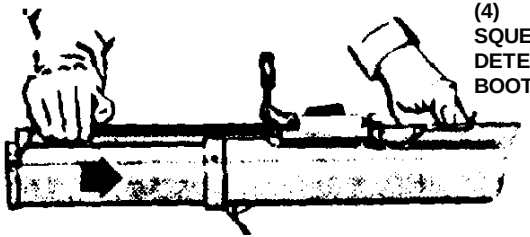
(1) RETURN SAFETY TO SAFE



(2) CAREFULLY REMOVE WEAPON FROM SHOULDER

AR 4437

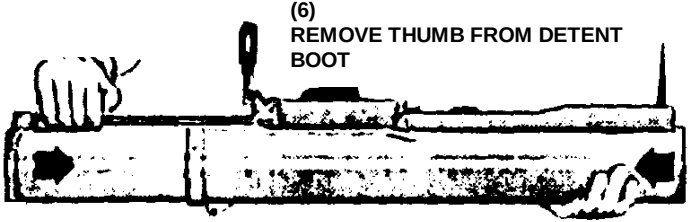
(3)
GRASP LAUNCHER
BY REAR SIGHT
HOUSING



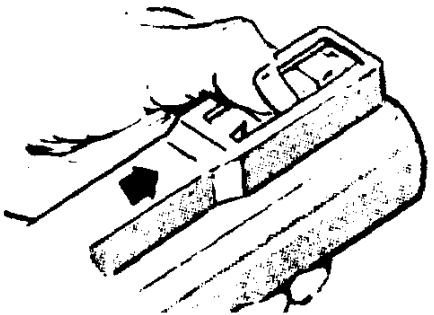
(4)
SQUEEZE
DETENT
BOOT

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

(6)
REMOVE THUMB FROM DETENT
BOOT



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

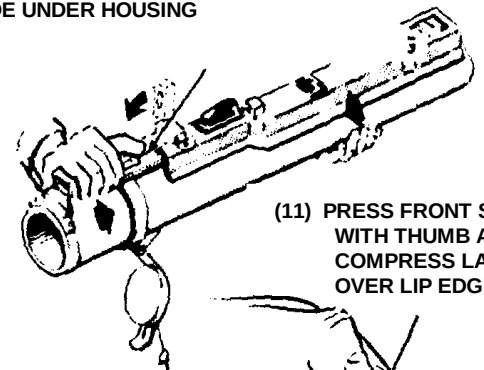


(8) COMPRESS UNTIL
EDGE OF INNER TUBE
TOUCHES THUMB LIGHTLY

PERFORM ALL COMPRESSION ACTIONS
SLOWLY TO AVOID INJURY TO FINGERS

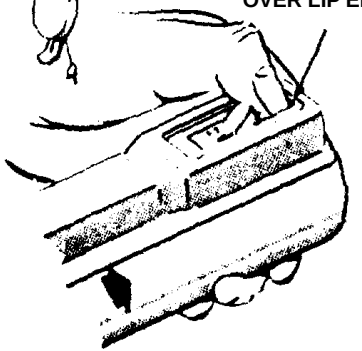
U
AR 4438

(9) FOLD DOWN REAR SIGHT AND GUIDE UNDER HOUSING

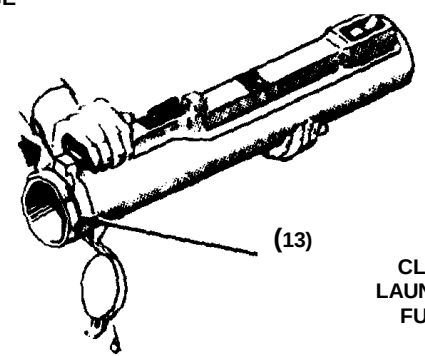


(10) COMPRESS LAUNCHER UNTIL TRAVEL IS STOPPED BY LIP ON FRONT SIGHT

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

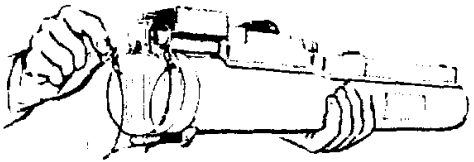


(12) REMOVE THUMB FROM FRONT SIGHT AND GRASP HOUSING



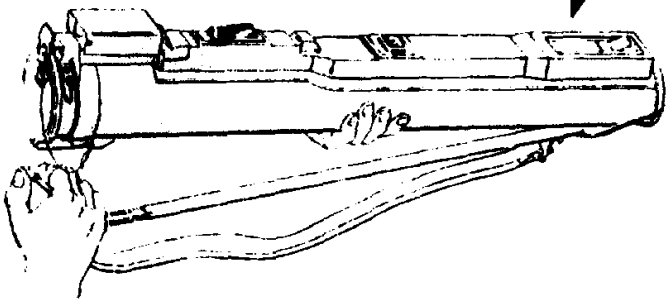
(13) CLOSE LAUNCHER FULLY

U
AR 4439



(14)
REPLACE COVER PIN

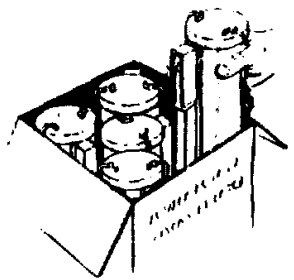
KEEP LAUNCHER
POINTED DOWN RANGE



(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

U
AR 4440

CHAPTER 3

MAINTENANCE

SECTION I

OPERATOR MAINTENANCE

NORMAL CONDITION

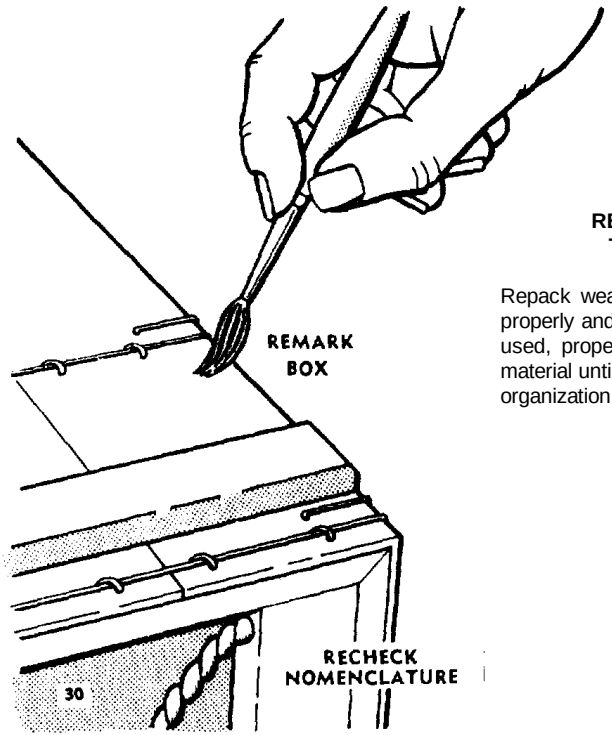
KEEP LAW CLEAN AND DRY

UNUSUAL CONDITIONS

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

U
AR 4441

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

U
AR 4442

NOTES

U
AR 4443

THIS PAGE LEFT INTENTIONALLY BLANK

U
AR 4444

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

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

Distribution:

To be distributed in accordance with DA Form 12-40E, Block 0528, Operator Maintenance Requirements for 66MM Light Antitank Weapon (LAW) System M72A1, M72A2 With Coupler, M72A3 and Practice Rocket Launcher M190 With M73 Practice Rocket.

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

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.

SOMETHING WRONG WITH PUBLICATION

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE

BE EXACT PIN-POINT WHERE IT IS

PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.

IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.

PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER	SIGN HERE

DA FORM 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE.

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

PIN: 027411-001

This fine document...

Was brought to you by me:

Liberated Manuals -- free army and government manuals

Why do I do it? I am tired of sleazy CD-ROM sellers, who take publicly available information, slap “watermarks” and other junk on it, and sell it. Those masters of search engine manipulation make sure that their sites that sell free information, come up first in search engines. They did not create it... They did not even scan it... Why should they get your money? Why are not letting you give those free manuals to your friends?

I am setting this document FREE. This document was made by the US Government and is NOT protected by Copyright. Feel free to share, republish, sell and so on.

I am not asking you for donations, fees or handouts. If you can, please provide a link to liberatedmanuals.com, so that free manuals come up first in search engines:

<A HREF=http://www.liberatedmanuals.com/>Free Military and Government Manuals</A>

– Sincerely
  Igor Chudov
  http://igor.chudov.com/