

OPERATOR'S MANUAL

TM 9 1340-214-10

JANUARY 1986

FOR

66MM LIGHT ANTITANK

WEAPON (LAW) SYSTEM M72A1,

M72A2 WITH COUPLER, M72A3

AND

PRACTICE ROCKET LAUNCHER M190

WITH M73 PRACTICE ROCKET

DEPARTMENT OF THE ARMY

SUPERSEDES TM 9-1340-214-10

APRIL 1982



WARNING

- ① DO NOT EXTEND LAUNCHER UNTIL READY TO FIRE
- ② DO NOT FIRE UNLESS DANGER AREAS ARE CLEAR OF PERSONNEL AND OBSTRUCTIONS
- ③ METER MARKINGS ON THE FRONT SIGHT ARE COATED WITH RADIOACTIVE MATERIAL, THEN LAMINATED BETWEEN TWO SHEETS OF PLASTIC. IF SIGHT IS BROKEN, REMOVE AND PLACE IN A PLASTIC SEALED BAG. STORE BAG IN A SEALED CONTAINER UNTIL REMOVED BY AMMUNITION DISPOSAL PERSONNEL.
- ④ WEAR EAR PLUGS WHEN FIRING THE WEAPON

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GENERAL

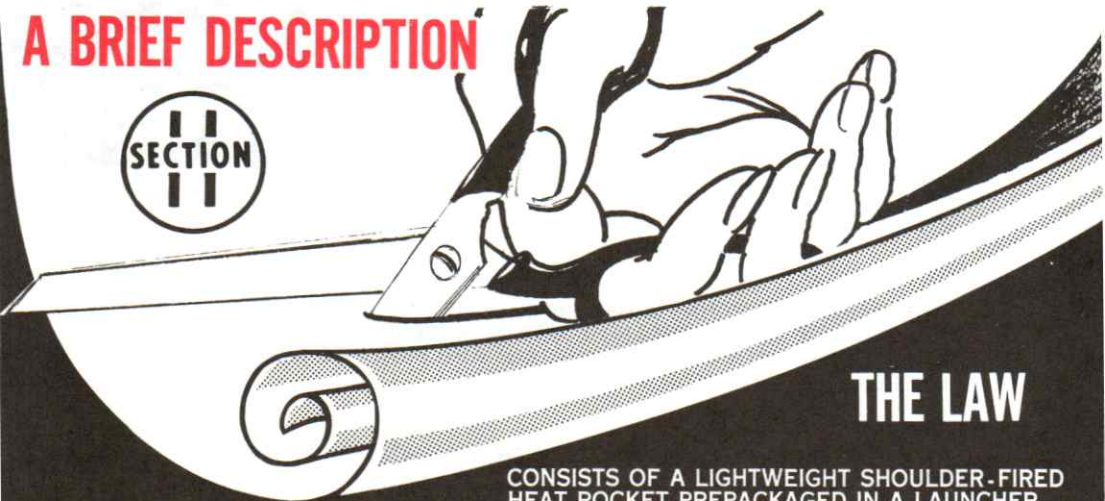
CHAPTER 1 INTRODUCTION

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, M72A3 AND PRACTICE ROCKET LAUNCHER M190 WITH M73 PRACTICE ROCKET.

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

A BRIEF DESCRIPTION

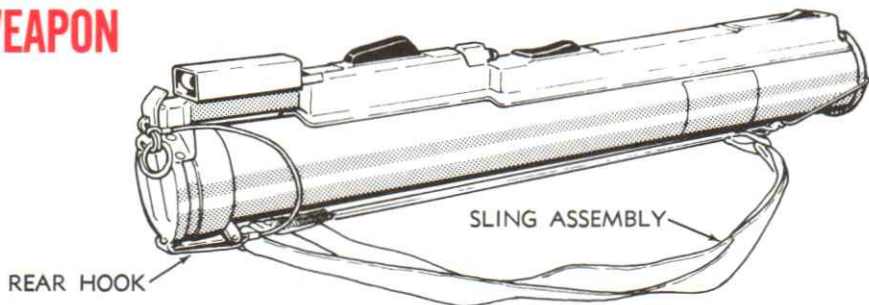


THE LAW

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.

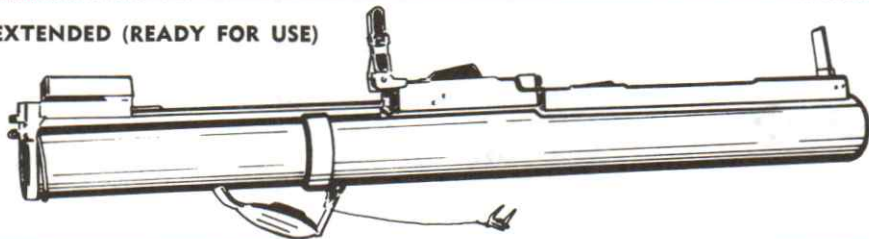
THE PRACTICE LAUNCHER, M190, IS A MODIFIED M72A1 LAUNCHER CONVERTED TO FIRE A 35-MM M73 ROCKET. THE ROCKET WHICH CONTAINS A SPOTTING CHARGE. SIMULATES THE FIRING OF THE TACTICAL WEAPON.

WEAPON



EXTERNAL VIEW AS ISSUED (NOT EXTENDED)

EXTENDED (READY FOR USE)



NOTE: EXTERNAL VIEW OF TACTICAL AND PRACTICE WEAPON ARE IDENTICAL

**DATA****WEAPON DATA**

	Tactical		Practice
	M72A1	M72A2 , M72A3	Launcher M190 w/Rocket M73
Weight	5.1-Lbs.	5.1-Lbs.	5.-Lbs.
Color Identification Launcher Firing Instruction Label	OD OD Background White Printing	OD OD Background White Printing	OD 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 (Open) Nominal	24.7-In. 34.7-In.	24.7-In. 34.7-In.	25.3-In. 35.4-In.
Diameter	4.9-In.	4.9-In.	4.9-In.



LABELS AND MARKING

ROCKET HE 66 MM ANTITANK W/COUPLER
 LOT LS-90-2-R-9-71 OPERATING AND STORAGE
 TEMP - 40°F TO + 140°F

ON
RIGHT
SIDE

NOMENCLATURE FOR TACTICAL
ITEM STENCILED ON LAUNCHER

U.S. ARMY

LAUNCHER, ROCKET M 190

LOT

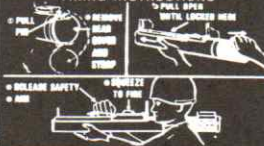
OPERATING TEMP. - 10° to + 135°F

STORAGE TEMP. - 40° to + 140°F

LABEL FOR
PRACTICE ITEM

ON
LEFT
SIDE

FIRING INSTRUCTIONS



LABEL FOR PRACTICE AND TACTICAL ITEMS

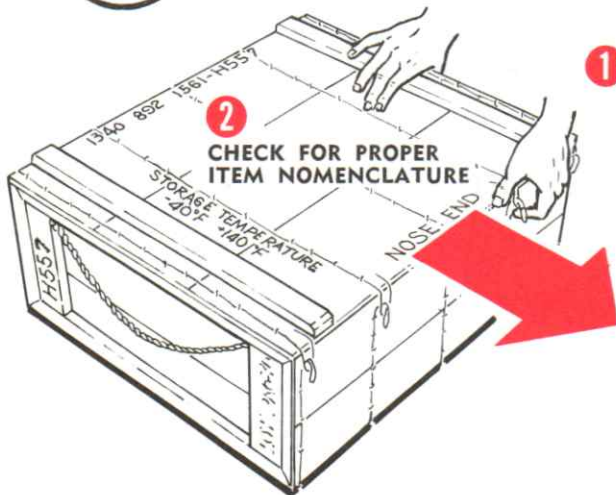
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Following applies to tactical weapon only.



SERVICE UPON RECEIPT OF MATERIEL

CHAPTER 2 OPERATION



2 CHECK FOR PROPER
ITEM NOMENCLATURE

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**

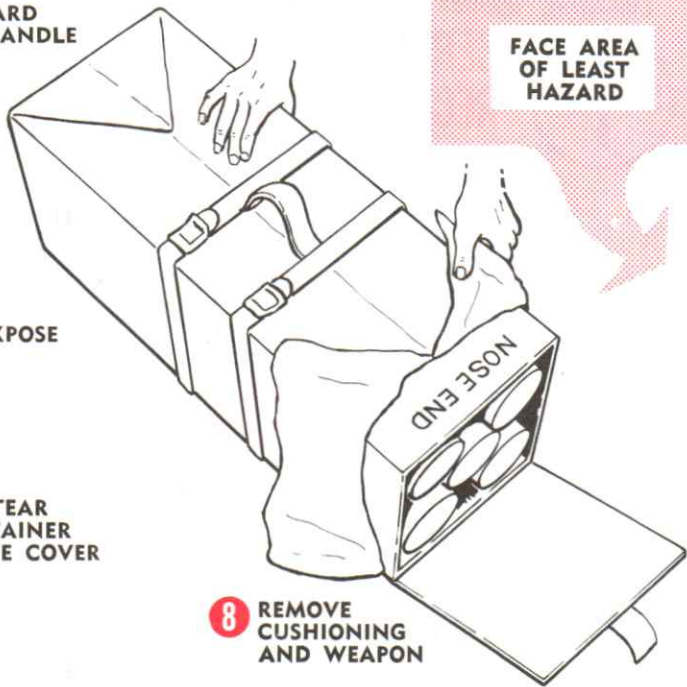
5 REMOVE FIBERBOARD
CONTAINER BY HANDLE

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



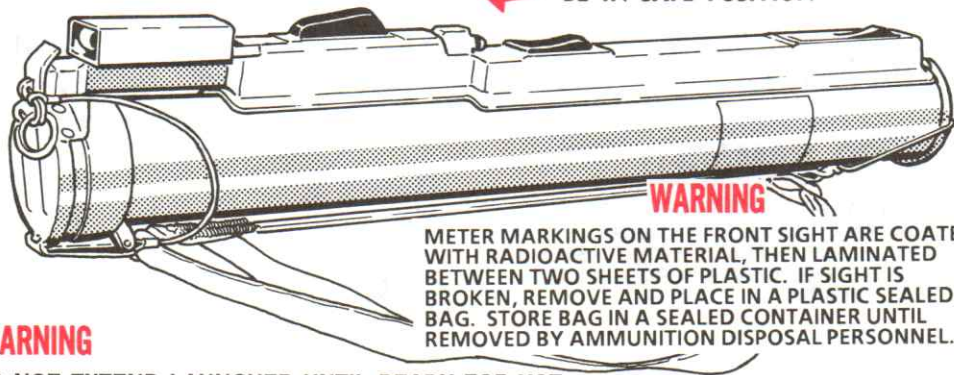
EACH WEAPON SYSTEM FOR

CRACKED TUBE
DENTED PARTS
MISSING PARTS
LOOSE PARTS

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



**TRIGGER SAFETY HANDLE MUST
BE IN SAFE POSITION**



WARNING

DO NOT EXTEND LAUNCHER UNTIL READY FOR USE.

WARNING
METER MARKINGS ON THE FRONT SIGHT ARE COATED WITH RADIOACTIVE MATERIAL, THEN LAMINATED BETWEEN TWO SHEETS OF PLASTIC. IF SIGHT IS BROKEN, REMOVE AND PLACE IN A PLASTIC SEALED BAG. STORE BAG IN A SEALED CONTAINER UNTIL REMOVED BY AMMUNITION DISPOSAL PERSONNEL.

FOR TACTICAL WEAPONS ONLY.

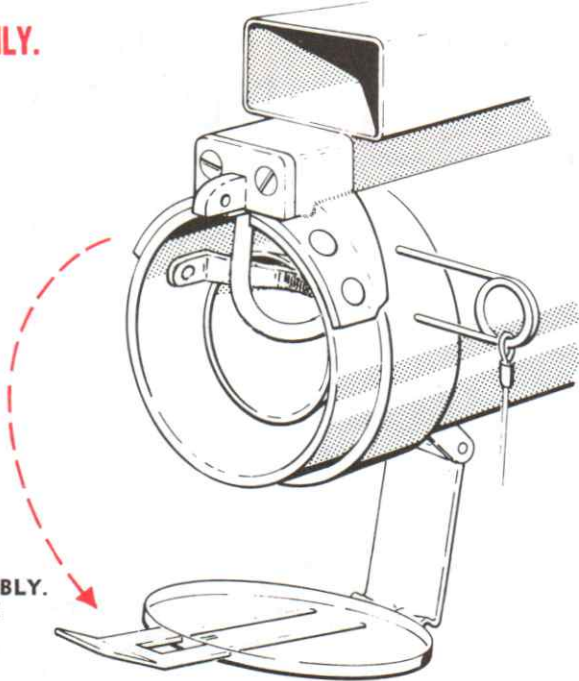
IF TIME PERMITS

**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.**





CARRYING POSITION

TO CARRY
SLING OVER SHOULDER

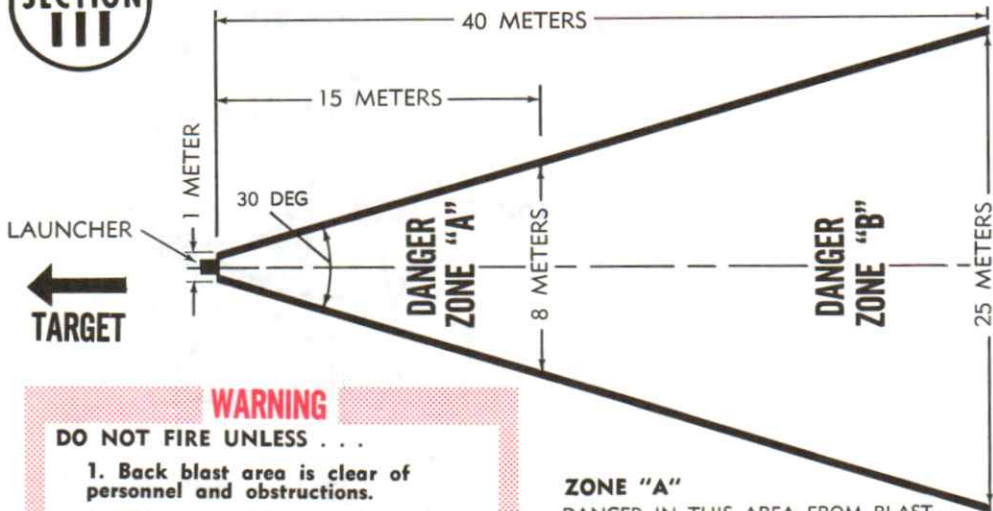


WARNING

DO NOT CARRY WEAPON IN EXTENDED
POSITION.



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

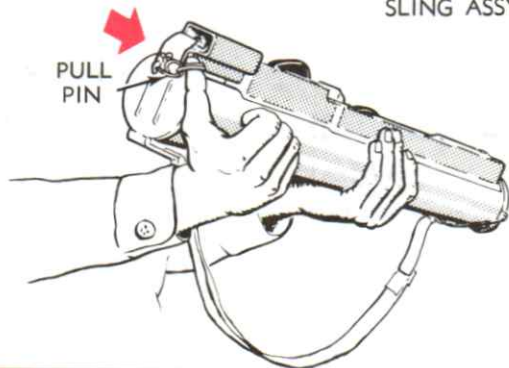


PREPARATION FOR FIRING

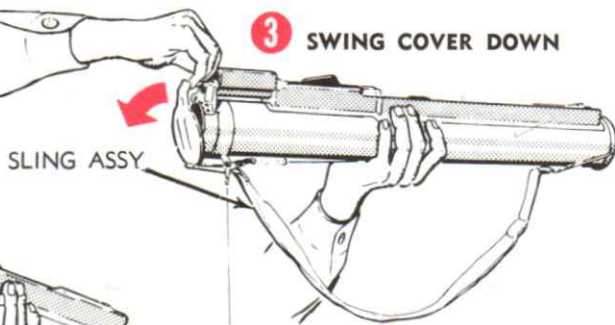


1 The Following Steps Are Performed At The Firing Point.

2 REMOVE PULL PIN



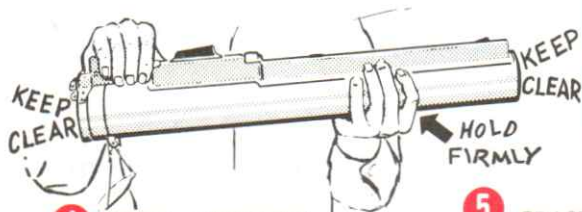
3 SWING COVER DOWN



**SLING
FALLS
FREE**

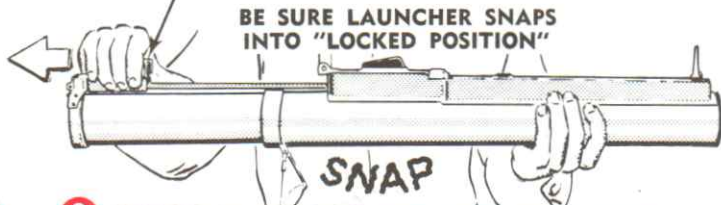
IF TWO ATTEMPTS TO LOCK
LAUNCHER OPEN FAIL -
CLOSE AND SET SYSTEM ASIDE
FOR DISPOSAL BY AUTHORIZED
AMMUNITION PERSONNEL

(SEE SECTION X FOR
CLOSING WEAPON)



- 4** HOLD LAUNCHER
SLIGHTLY AWAY
FROM BODY

- 5** GRASP REAR SIGHT
COVER - HOLD FIRMLY



- 6** EXTEND BY PUSHING OUT WITH RIGHT HAND

KEEP
LAUNCHER
ON TARGET

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

FIRING POSITIONS



SITTING



KNEELING



KEEP ON TARGET

STANDING



OBSERVE BACKBLAST AREA

AND PRONE POSITIONS

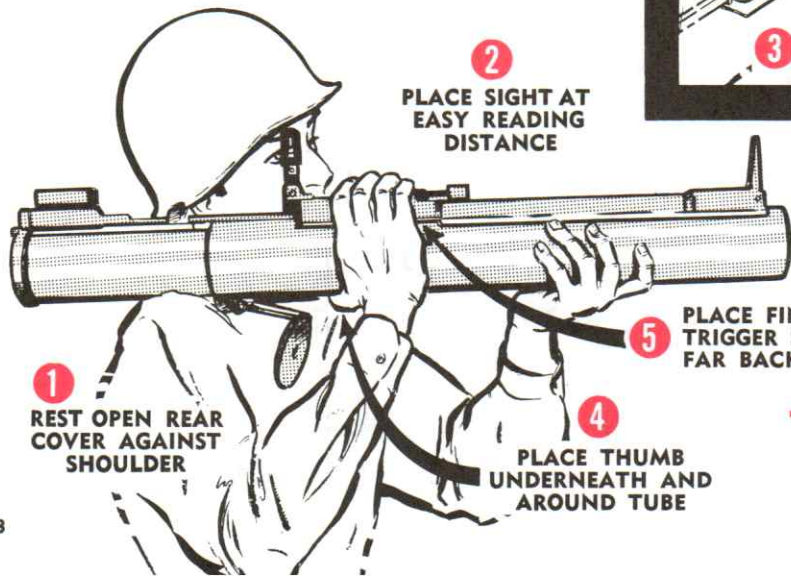




READY

WARNING

WEAR EAR PLUGS WHEN
FIRING THE WEAPON.



1
REST OPEN REAR
COVER AGAINST
SHOULDER

2
PLACE SIGHT AT
EASY READING
DISTANCE

4
PLACE THUMB
UNDERNEATH AND
AROUND TUBE

5
PLACE FINGERTIPS ON
TRIGGER SPRING BOOT AS
FAR BACK AS POSSIBLE

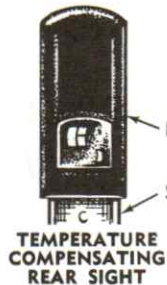
TARGET





AIM

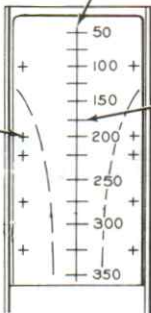
LEAD MARKER
(TARGET MOVING
15MPH)



RUBBER SIGHT BOOT

SIGHT BRACKET

VERTICLE CENTER LINE



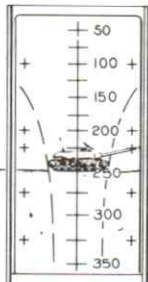
FRONT SIGHT

RANGE MARKER



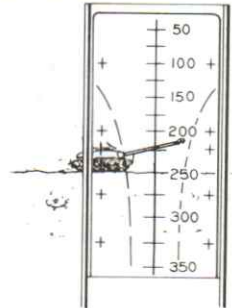
**USING RANGE MARKER FOR
HEAD-ON RANGE ESTIMATION**

**SIGHTS ARE COATED
TO AID IN NIGHT FIRING
(EXCEPT M72A3)**



**USING RANGE MARKER FOR
SIDE VIEW RANGE ESTIMATION**

**ON TARGET
(STATIC OR MOVING
TARGET HEAD-ON
AT 235 METERS)**



**ON TARGET
(MOVING)**

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

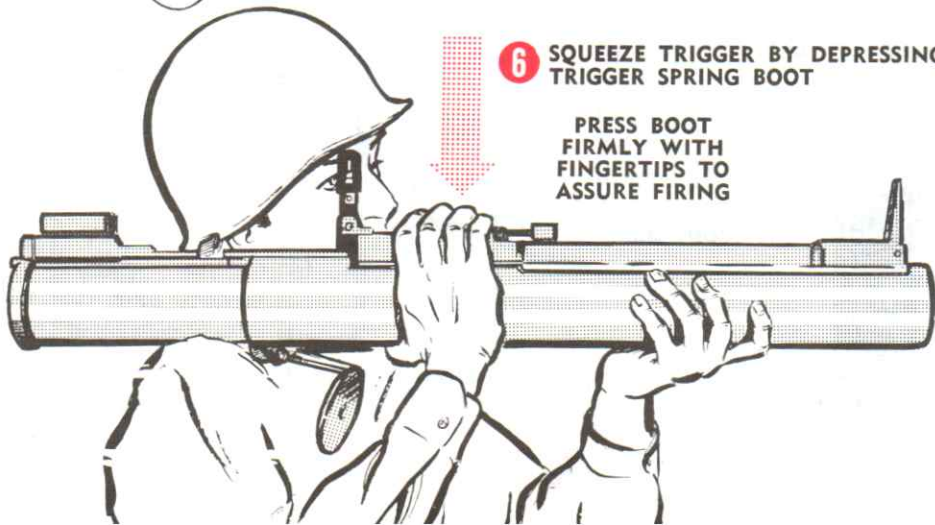
IV
SECTION
IA

FIRE

VIII
SECTION
VIII

6 SQUEEZE TRIGGER BY DEPRESSING
TRIGGER SPRING BOOT

PRESS BOOT
FIRMLY WITH
FINGERTIPS TO
ASSURE FIRING



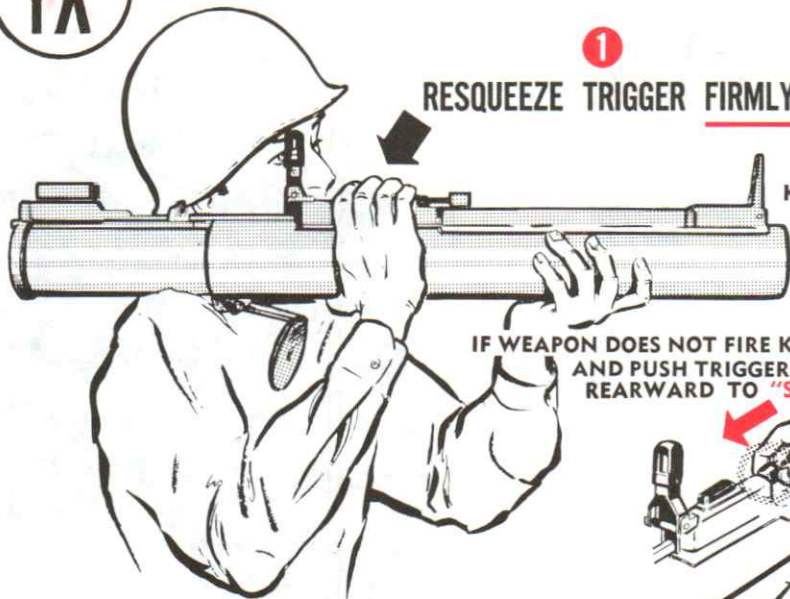


FAILURE OF WEAPON TO FIRE IMMEDIATELY

1

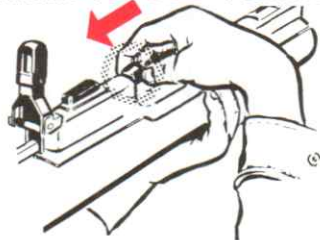
RESQUEEZE TRIGGER FIRMLY

KEEP ON TARGET



2

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



3 WAIT 10 SECONDS

THEN

REMOVE LAUNCHER
FROM SHOULDER



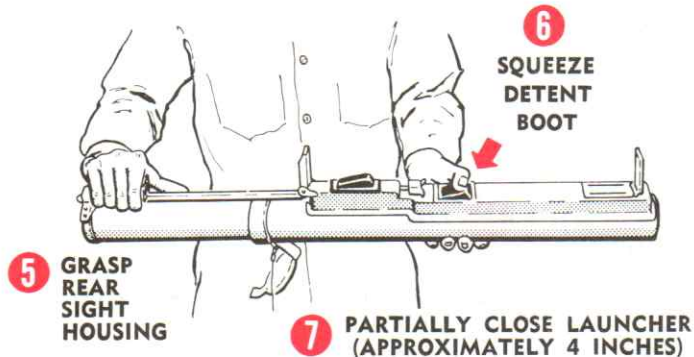
4 WAIT 1 MINUTE

BEFORE RECOCKING

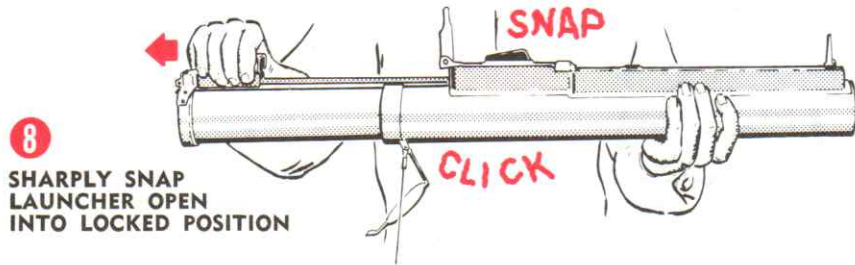
If time is not available lay weapon down pointing
at target — abandon.



KEEP LAUNCHER
ON TARGET



**KEEP ON
TARGET**



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**

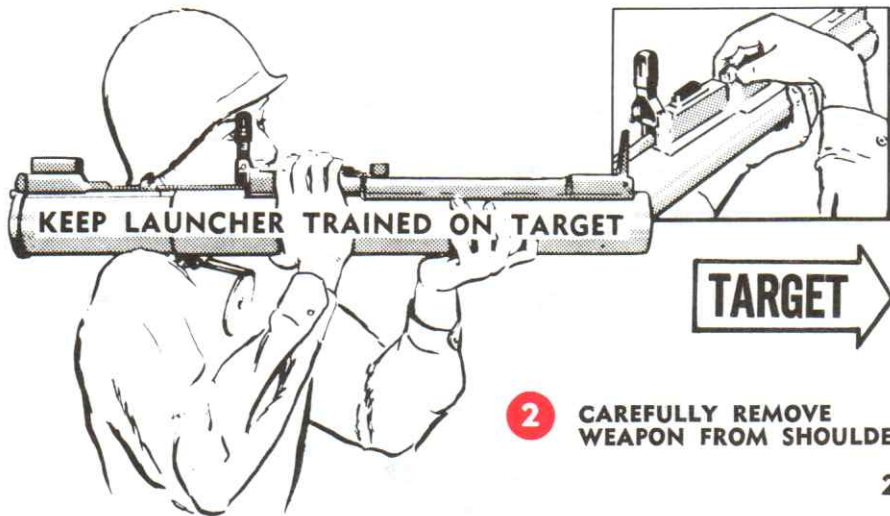
**NOTIFY AUTHORIZED DISPOSAL MUNITION
PERSONNEL FOR DISPOSAL OF WEAPON**





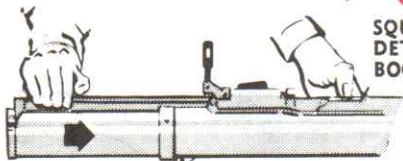
PREPARED FOR – BUT NOT FIRED

1 RETURN SAFETY TO **SAFE**



2 CAREFULLY REMOVE
WEAPON FROM SHOULDER

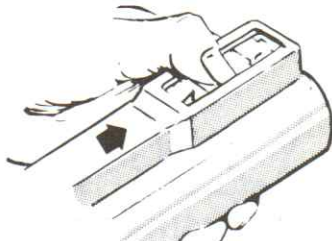
- 3**
GRASP LAUNCHER
BY REAR SIGHT
HOUSING



KEEP
ON
TARGET

- 4**
SQUEEZE
DETENT
BOOT

- 7** GRASP LAUNCHER
NEAR FRONT SIGHT
AND
HOLD DOWN FRONT SIGHT



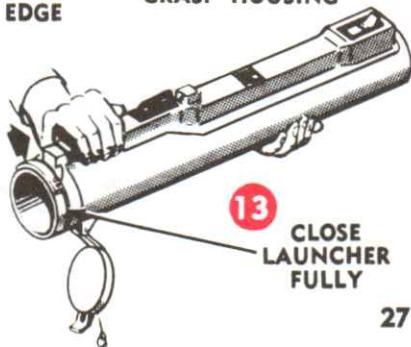
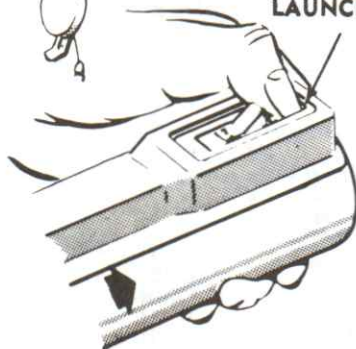
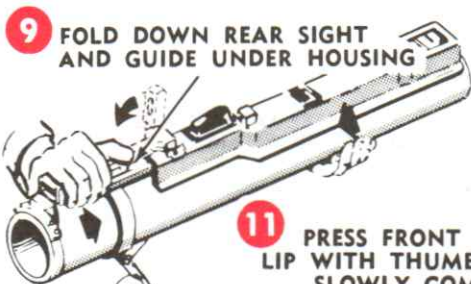
- 5** SLIDE INNER TUBE INTO
OUTER TUBE APPROXIMATELY
TWO INCHES



- 6**
REMOVE THUMB FROM DETENT
BOOT

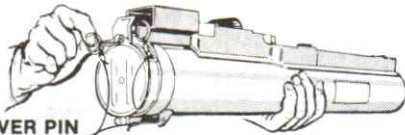
- 8** COMPRESS UNTIL
EDGE OF INNER TUBE
TOUCHES THUMB LIGHTLY

PERFORM ALL COMPRESSION ACTIONS
SLOWLY TO AVOID INJURY TO FINGERS



14

REPLACE COVER PIN

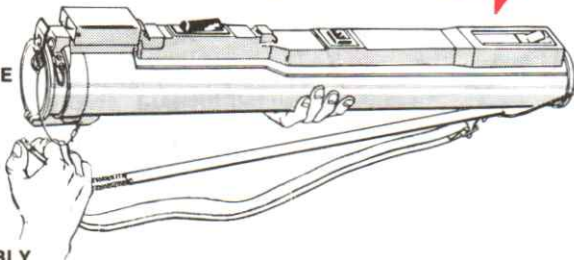


**KEEP LAUNCHER
POINTED DOWN RANGE**



15

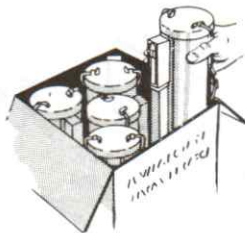
**REPLACE BUFFER PLATE
(M72A3 ONLY)**



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

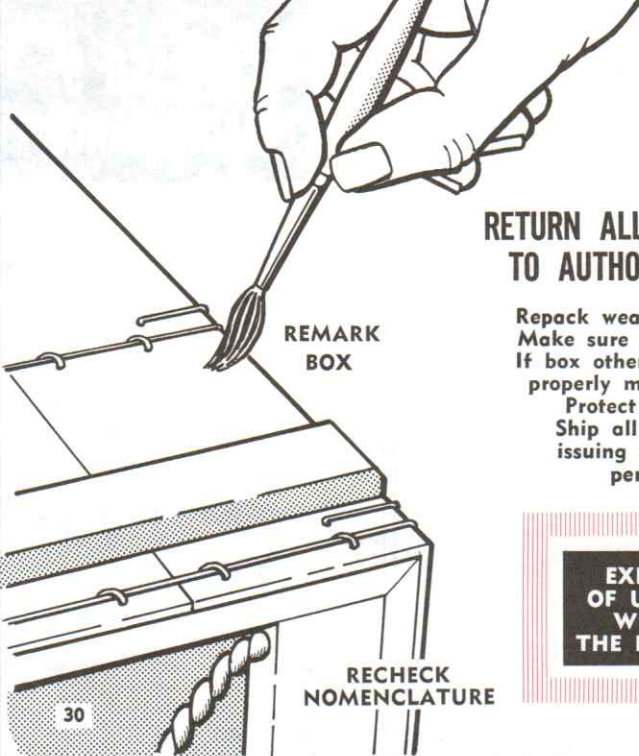
OPERATOR MAINTENANCE

NORMAL CONDITIONS

KEEP LAW CLEAN AND DRY

UNUSUAL CONDITIONS

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

An illustration of a hand holding a brush, applying paint to a box. The box has a section labeled 'REMARK BOX' and another section labeled 'RECHECK NOMENCLATURE'. The box is open, showing its interior. The hand is positioned over the 'REMARK BOX' section.

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**

**REMARK
BOX**

**RECHECK
NOMENCLATURE**



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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)
Dover, New Jersey 07801-5001

USE DA FORM 2028



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

TECHNICAL MANUAL

NO. 9-1340-214-10

By Order of the Secretary of the Army:

Official:

MILDRED E. HEDBERG

Brigadier General, United States Army
The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-40A-R,
Operator maintenance requirements for Small Rockets and
Missiles.

*This manual supersedes TM 9-1340-214-10,
dated April 1982.

*TM 9-1340-214-10

HEADQUARTERS

DEPARTMENT OF THE ARMY
Washington, DC, 15 January 1986

JOHN A. WICKHAM, JR.
General, United States Army
Chief of Staff

PIN: 027411-000