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

1. Make the following pen and ink changes:


   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:

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>I GENERAL</td>
<td>3</td>
</tr>
<tr>
<td>II A Brief Description</td>
<td>4-5</td>
</tr>
<tr>
<td>III Data</td>
<td>6</td>
</tr>
<tr>
<td>IV Labels and Marking</td>
<td>7-8</td>
</tr>
</tbody>
</table>

# Chapter 2

## Operation

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Service Upon Receipt of Materiel</td>
<td>9-12</td>
</tr>
<tr>
<td>II Carrying Position</td>
<td>13</td>
</tr>
<tr>
<td>III Back Blast Danger Zones</td>
<td>14</td>
</tr>
<tr>
<td>IV Preparation for Firing</td>
<td>15-16</td>
</tr>
<tr>
<td>V Firing Positions</td>
<td>17</td>
</tr>
<tr>
<td>VI Ready</td>
<td>18</td>
</tr>
<tr>
<td>VII Aim</td>
<td>19</td>
</tr>
<tr>
<td>VIII Fire</td>
<td>20</td>
</tr>
<tr>
<td>IX Failure of Weapon to Fire Immediately</td>
<td>21-24</td>
</tr>
<tr>
<td>X Prepared for - But Not Fired</td>
<td>25-28</td>
</tr>
</tbody>
</table>

# Chapter 3

## Maintenance

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Operator Maintenance</td>
<td>29</td>
</tr>
<tr>
<td>II Repack</td>
<td>30</td>
</tr>
</tbody>
</table>
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.
THE LAW

CONSISTS OF A LIGHTWEIGHT SHOULDIER-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.

CHANGE 1 4
NOTE: EXTERNAL VIEW OF TACTICAL AND PRACTICE WEAPON ARE IDENTICAL
### SECTION III

#### DATA

**WEAPON DATA**

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

U
AR 4418
SECTION IV
LABELS AND MARKING

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°F

NOMENCLATURE FOR TACTICAL ITEM STENCILED ON LAUNCHER

U.S. ARMY
LAUNCHER ROCKET M 190
LOT
OPERATING TEMP 0 TO 135°F
STORAGE TEMP 40° TO 140°F

LABEL FOR PRACTICE ITEM

LABEL FOR PRACTICE AND TACTICAL ITEMS

ON LEFT SIDE

ON RIGHT SIDE

U
AR 4419
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
(2) CHECK FOR PROPER ITEM NOMENCLATURE.
(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
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

---

**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.

---

**WARNING**

U

AR 4423
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.
SECTION II
CARRYING POSITION

TO CARRY
SLING OVER SHOULDER

WARNING
DO NOT CARRY WEAPON IN EXTENDED POSITION.
SECTION III

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
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
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”

(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

SITTING

KEEP ON TARGET

STANDING

KNEELING

OBSERVE BACKBLAST AREA

AND PRONE POSITIONS
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

(4) PLACE THUMB UNDERNEATH AND AROUND TUBE.

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

(1) REST OPEN REAR COVER AGAINST SHOULDER

TARGET
SIGHTS CONTAIN RADIOACTIVE MATERIAL TO AID IN NIGHT FIRING (EXCEPT M72AB). SEE WARNING ON INSIDE COVER.
(6) SQUEEZ TRIGGER BY DEPRESSING TRIGGER SPRING BOOT

PRESS BOOT FIRMLY WITH FINGERTIPS TO ASSURE FIRING
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
(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
(5) GRASP REAR SIGHT SIGHTING

(6) SQUEEZE DETENT ROOT

(7) PARTIALLY CLOSE LAUNCHER (APPROXIMATELY 4 INCHES)

(8) SHARPLY SNAP LAUNCHER OPEN INTO LOCKED POSITION

KEEP ON TARGET
(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
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

(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
(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
(14) REPLACE COVER PIN

(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

U
AR 4441
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.
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
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.
