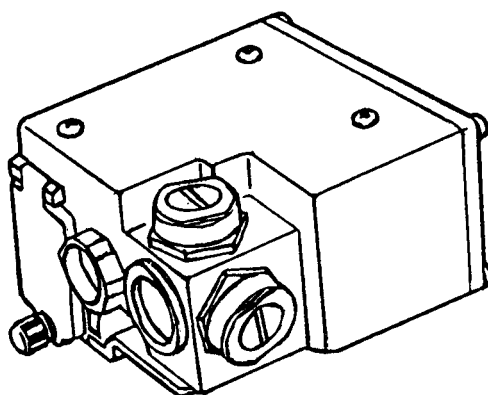


OPERATOR'S MANUAL
MULTIPLE INTEGRATED LASER
ENGAGEMENT SYSTEM (MILES)
SIMULATOR SYSTEM, FIRING, LASER: M89
(NSN 1265-01-236-6725)

FOR

M16A1/M16A2 RIFLE
AND
SIMULATOR SYSTEM, FIRING, LASER: M90
(NSN 1265-01-236-6724)

FOR
M249, SQUAD AUTOMATIC WEAPON (SAW)



Distribution Statement A: Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

February 1989

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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. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in back of this manual direct to: Commander U.S. Army Simulation, Training, and Instrumentation Command (STRICOM), ATTN: AMSTI-LSM, 12350 Research Parkway, Orlando, FL 32826-3276. A reply will be furnished to you.

DISTRIBUTION STATEMENT A.

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CHAPTER 1

GENERAL INFORMATION

1.1 INTRODUCTION

The instructions and procedures contained in this manual are intended for use by operating personnel of the Multiple Integrated Laser Engagement System (MILES) Infantry System.

NOTE

This publication contains application instructions pertaining to the M16A1, M16A2 and M249 SAW for the equipment listed. Do not confuse with earlier equipment identified as Simulator System, Firing, Laser: M60 for M16A1 Rifle (NSN 1265-01-085-1583).

1.2 HOW TO USE THIS MANUAL

Chapter 1 is a general overview of the purpose and identification of the total Infantry System. Each following chapter deals with a particular component of the system and all related information needed by the operator to use that component.

To perform the procedures discussed in this manual, the operating personnel must be able to:

- load and fire blank ammunition
- install a Blank-Fire Attachment (BFA) on the M16A1 and M16A2 rifles and on the M249 Squad Automatic Weapon (SAW)
- requisition basic military equipment through proper channels
- return defective equipment for servicing

It is suggested that this manual be read in its entirety to familiarize the reader with the total system.

1.3 PURPOSE OF EQUIPMENT

The purpose of the Infantry System is to provide realistic combat training exercise without using live ammunition.

The Infantry System is comprised of battery-powered laser transmitters and detector assemblies. When fired, the transmitter sends an invisible beam of radiated energy (laser) toward a target. The target is outfitted with the detector assembly which senses the laser beam and sounds an alarm. The alarm sounds in different tones, indicating whether the target was KILLED or NEAR MISSED by the laser beam.

Support equipment for the Infantry System includes a Controller Gun which is used by the umpire (or Controller) of the training exercise. A Small Arms Alignment Fixture (SAAF) is used to align the transmitter to the weapon sights of the weapon and to verify the operability of the transmitter.

1.4 EQUIPMENT

Figure 1-1 illustrates and identifies the major components and Figure 1-2 the support equipment of the Infantry System. They are the:

- Small Arms Transmitter (SAT) assembly
- Man-Worn Laser Detector (MWLD) assembly, which includes the Helmet and Torso Harnesses
- Controller Gun assembly
- Small Arms Alignment Fixture (SAAF) assembly

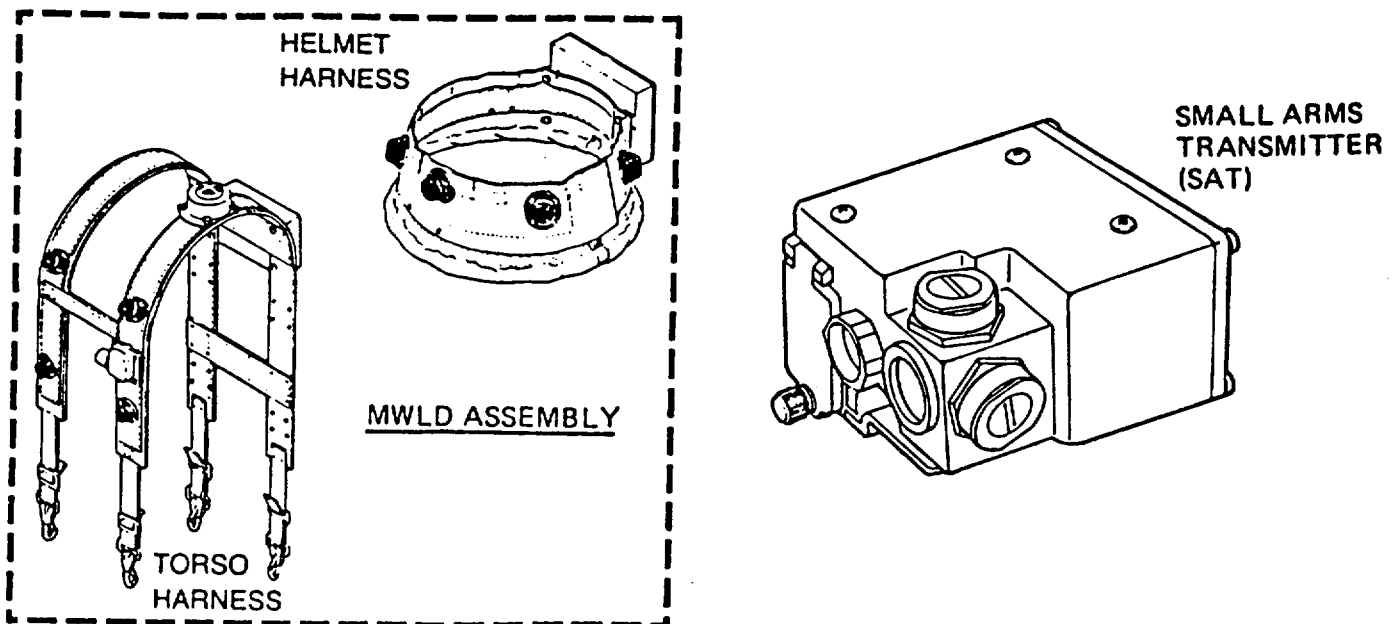


FIGURE 1-1. Infantry System