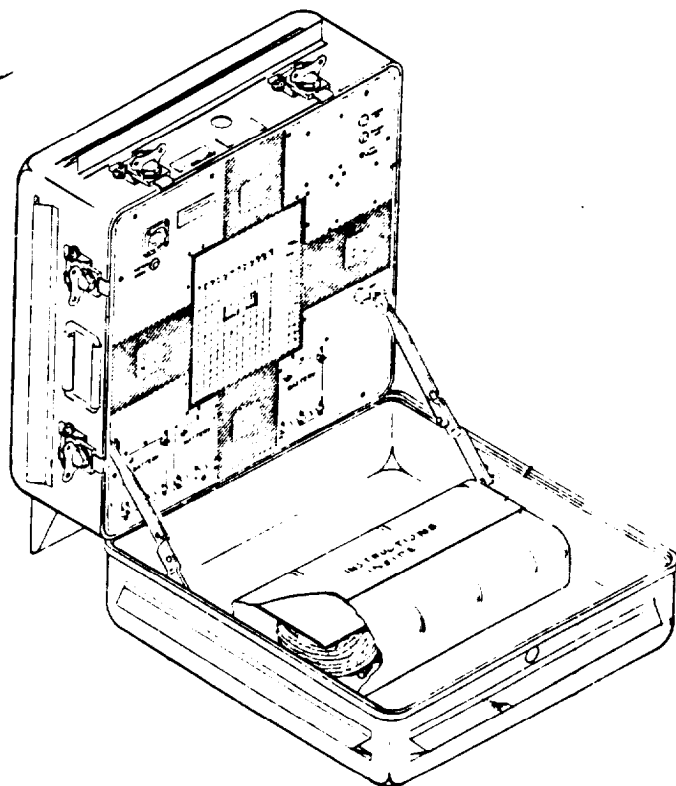


# TM 9-4931-436-14 & P

## Technical Manual

### OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE

### Alignment Device, Laser Transmitter: Short Range



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**FEBRUARY 1982**

TECHNICAL MANUAL

TM-5860-436-14&amp;P

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON DC, 26 February 1982OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT AND  
GENERAL SUPPORT MAINTENANCE, INCLUDING REPAIR PARTS  
AND SPECIAL TOOLS LIST

FOR

ALIGNMENT DEVICE, LASER TRANSMITTER: SHORT RANGE

Current as of October 1980

## REPORTING OF ERRORS

You can improve this manual by recommending improvements using DA Form 2028 (Recommended Changes to Publications and Blank Forms) or DA Form 2028-2 (Test) located in the back of the manual and mailing the form directly to Commander, US Army Armament Readiness and Development Command, Attn : DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished directly to you.

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## CHAPTER 1

## INTRODUCTION

## Section I. GENERAL

1-1. SCOPE. This manual contains operating and maintenance instructions for the Alignment Device, Laser Transmitter: Short Range, which is part of the the Multiple Integrated Laser Engagement System (MILES). Maintenance Instructions are for operator/crew, organizational, direct support, and general support maintenance levels.

The Alignment Device, Laser Transmitter: Short Range is referred to in this manual as the device, or alignment device.

Appendix A contains a list of references applicable to operation and maintenance of the alignment fixture. Appendix B outlines the Maintenance Allocation Chart (MAC). Appendix C contains the

Repair Parts and Special Tools List (RPSTL).

1-2. FORMS AND RECORDS. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

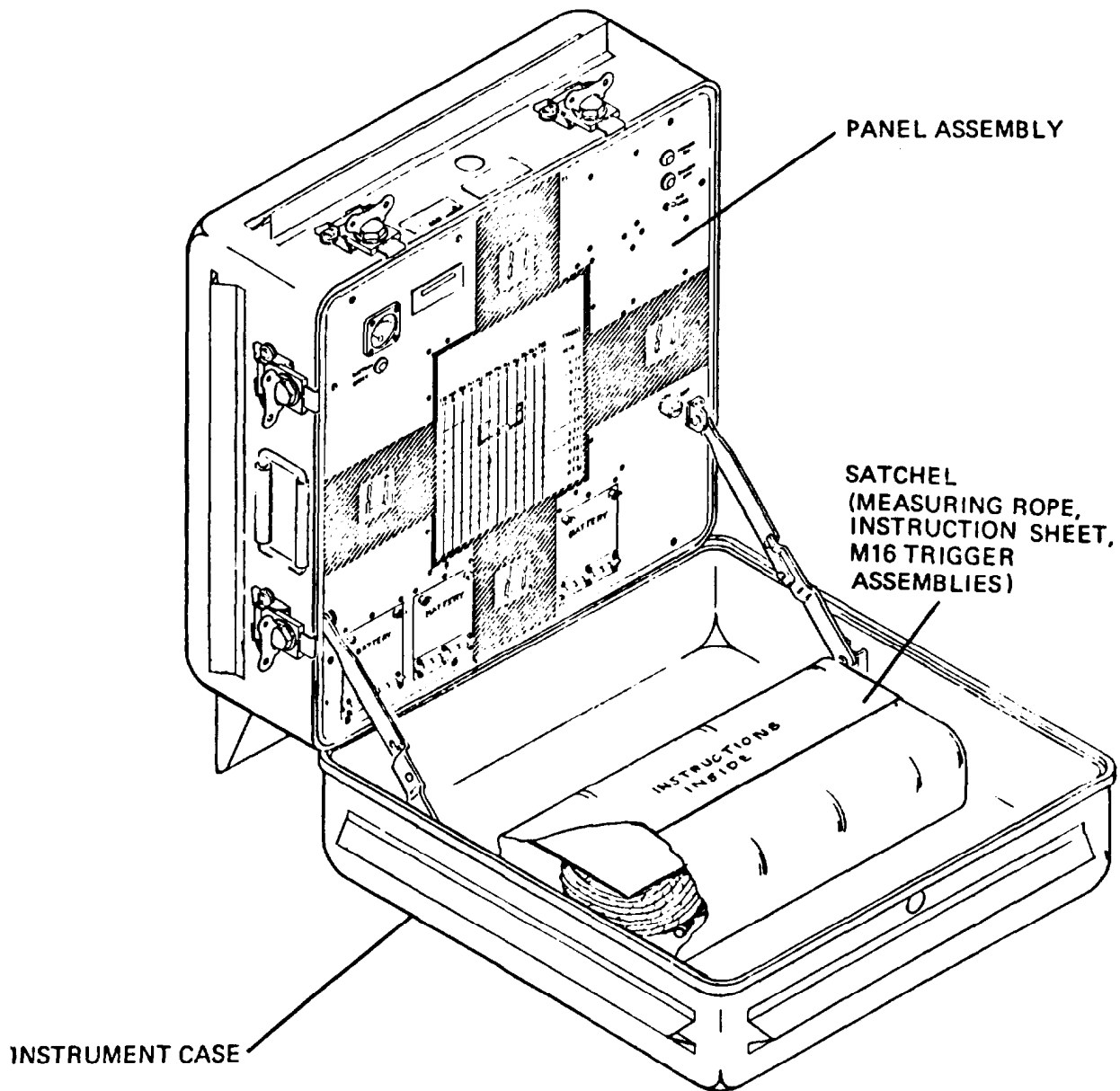
1-3. REPORTING OF ERRORS. Reports of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028, "Recommended Changes to DA Publications," and forwarded directly to: US Army ARRCOM, ATTN : DRSAR-MAS, Rook Island, IL 61299. A reply will be furnished to you.

## Section II. DESCRIPTION AND DATA

1-4. DESCRIPTION. The Alignment Devices, Laser Transmitter: Short Range, also referred to herein as alignment fixture, and fixture, is an alignment device used to aid in aligning M16A1 rifle and M60 machine gun sights to the laser beam emitted from the MILES transmitter mounted on the weapon. This procedure is conducted when a MILES laser transmitter is first attached to the weapon and at any other time that a soldier would normally be expected to adjust his sights. The fixture is erected in an open case which rests on the ground. As shown in figure 1-1, the bottom portion of the case remains flat on the ground, and the top opens to a vertical position similar to a suitcase.

Since the vertical portion contains all of the operating components of the fixture, most of the weight is concentrated in this portion of the case. Therefore, to support and stabilize the heavy open portion of the case, a small stand is attached to the side that would normally face the ground when the case is open and two support braces lock with the case in the 90 degree open position.

Two handles, one on each side of the case swing open for use and have spring returns. Six cam action positive locking latches are provided to secure and seal the case during transportation. Pressure relief valves are installed in each half of the case.



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Figure 1-1. Alignment Device, Laser Transmitter: Short Arms