

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATION

DIRECT SUPPORT AND GENERAL SUPPORT

MAINTENANCE MANUAL

INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS

METER, MODULATION

ME-57A/U

(NSN 6625-00-432-7312)

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT,  
AND GENERAL SUPPORT MAINTENANCE MANUAL  
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS**

**METER, MODULATION ME-57A/U**

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Current as of 10 April 1975

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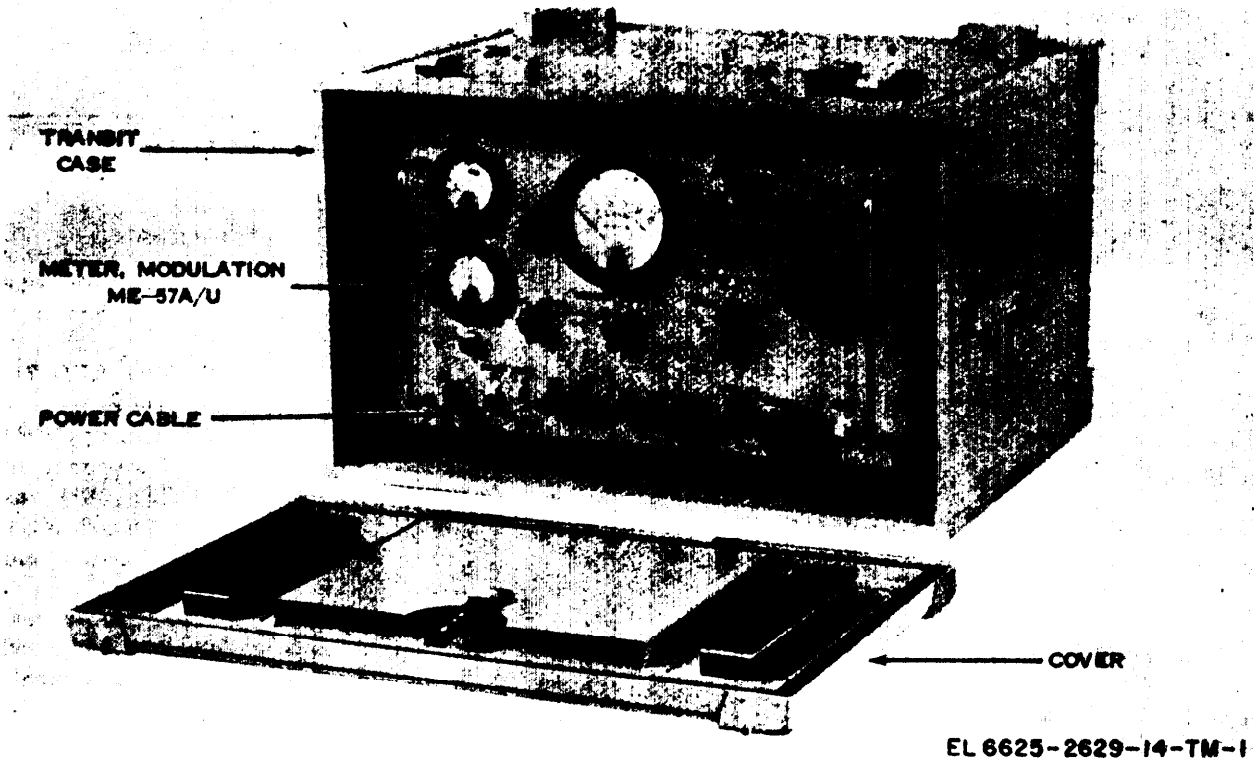


Figure 1-1. Meter, Modulation ME-57A/U

# CHAPTER 1

## INTRODUCTION

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### Section I. GENERAL

#### 1-1. Scope

a. This manual describes Meter, Modulation ME-57A/U (fig. 1-1) and provides instructions for operation, organizational maintenance, direct support (DS) maintenance, and general support (GS) maintenance. Instructions are provided for the operator and the organizational repairman for installation, operation, preventive maintenance and replacement of parts available at organizational maintenance. Circuit functioning is included for general support maintenance, together with instructions appropriate to that category of maintenance for troubleshooting, testing, adjusting, aligning and repairing the equipment and replacing maintenance parts. There are no maintenance functions for the ME-57A/U assigned to the direct support level.

b. Throughout this manual, Meter, Modulation ME-57A/U will be referred to as the modulation meter. Specific meters within the equipment are referred to by the associated front panel markings.

c. Appendixes B and C are current as of 10 April 1975.

#### 1-2. Indexes of Equipment Publications

a. *DA Pam 310-4*. Refer to the latest issue of DA Pam 310-4 to determine whether there are new additions, changes, or additional publications pertaining to the equipment.

b. *DA Pam 910-7*. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

#### 1-3. Forms and Records

a. *Reports of Maintenance and Unsatisfactory Equipment*. 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.

b. *Report of Packaging and Handling Deficiencies*. Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR 700-58/NAVSUPINST 4030.29/AFR 71-13/MCO P4030.29A, and DSAR 4145.8.

c. *Discrepancy in Shipment Report (DISREP) (SF 361)*. Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33A/AFM 75-18/MCO P4610.19B, and DSAR 4500.15.

d. *Administrative Storage*. For procedures, forms and records, and inspections required during administrative storage of this equipment, refer to TM 740-90-1.

#### 1-4. Destruction of Army Materiel

Appropriate procedures for destruction of Army materiel to prevent enemy use and the circumstances surrounding said destruction are covered in TM 750-244-3.

#### 1-5. Reporting of Equipment Publication Improvements

The reporting 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 Publications and Blank Forms) and forwarded direct to Commander, US Army Electronics Command, ATTN: AMSEL-MA-Q, Fort Monmouth, NJ 07703.

#### 1-6. Calibration

Pertinent publications on calibration of this equipment shall be referenced. Refer to DA Pam 310-4.

### Section II DESCRIPTION AND DATA

#### 1-7. Purpose and Use

The modulation meter determines the accuracy of frequency deviation calibrations of frequency

modulated (fro) signal generators and fm transmitters. The equipment rapidly measures deviation over a range from 0 to 1,000 kiloHertz