

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT,

AND GENERAL SUPPORT MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST

(INCLUDING DEPOT MAINTENANCE REPAIR PARTS

AND SPECIAL TOOLS LIST)

FOR

MULTIMETER

AN/USM-223

HEADQUARTERS, DEPARTMENT OF THE ARMY

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Operator's, Organizational, Direct Support,
and General Support Maintenance Repair Parts
and Special Tools Lists
(Including Depot Maintenance Repair Parts
and Special Tools Lists)

for

MULTIMETER AN/USM-223

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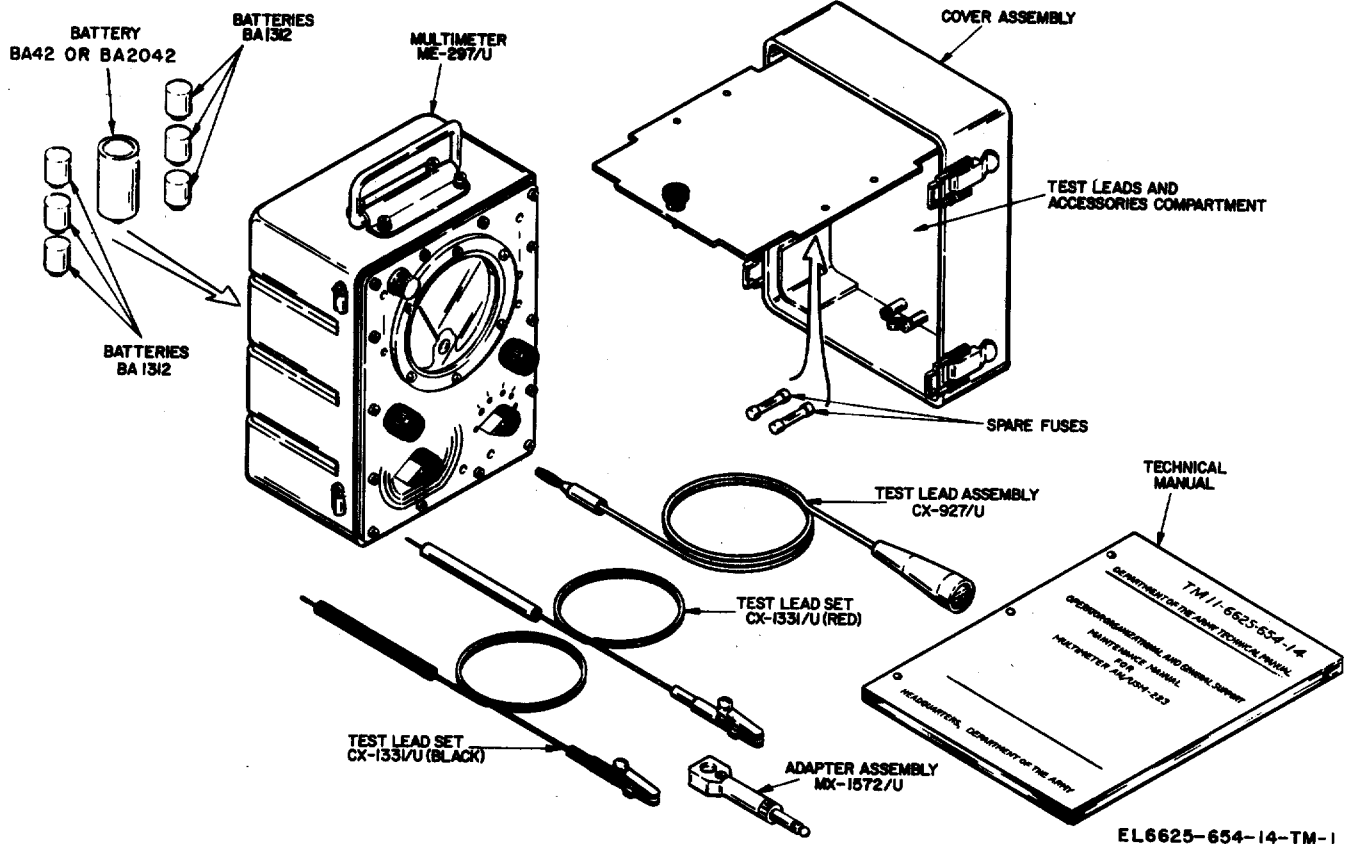


Figure 1-1. Multimeter AN/USM-223.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This manual describes Multimeter AN/USM-223 and covers its operation; operator, organizational, direct and general support maintenance instructions; and functioning.

b. A list of applicable publications and references appears in appendix A.

c. The maintenance allocation chart appears in appendix B and the special tools list appears in appendix C.

d. Appendixes B and C are current as of 27 April 1974.

1-2. Indexes of Publications.

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

b. *DA Pam 310-7*. 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 (Report of Packaging and Handling Deficiencies) as prescribed in AR 700-58/NAVSUP PUB 378/AFR 71-4/MCO P4030.29, 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/NAVSUP INST 4610.33/AFM 75-18/MCO P4610.19A, and DSAR 4500.15.

d. *Reporting of Errors*. 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-C, Fort Monmouth, NJ 07703.

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

Section II. DESCRIPTION AND DATA

1-4. Purpose and Use

a. *Purpose*. Multimeter AN/USM-223 is a portable, general purpose test instrument designed to measure ac and dc voltages, direct current, and resistance.

b. *Use*. Multimeter AN/USM-223 is used to measure ac and dc voltages to 5000V, direct currents to 10A, and resistances to 10 megohms. It has a low output voltage on the ohms ranges to allow safe measurement of components in solid state circuitry.

1-5. Technical Characteristics

a. *Description*. Multimeter AN/USM-223 is a battery-powered, general purpose multimeter, designed to safely test the passive components of solid state circuitry. Conventional circuitry is used, consisting of multipliers, shunts, and rectifiers. Range and function switches provide 15 dc voltage ranges, 7 ac voltage ranges, 8 direct current ranges, and 5 resistance ranges without the need for special external accessories or shunts.