TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL

INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST

(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)

FOR

VOLTMETER, ELECTRONIC AN/URM-145B
(NSN 6625-00-437-4865)

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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OPERATOR'S ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL

VOLTOMETER, ELECTRONIC AN/URM-145B (NSN 6625-00-437-4865)

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Figure 1-1. Voltmeter, Electronic AN/URM-145B.
CHAPTER 1
INTRODUCTION

Section 1. GENERAL

1-1. Scope
This manual describes Voltmeter, Electronic AN/URM-145B (fig. 1-1) and provides instructions for operation and organizational, direct support, and general support (GS) maintenance. Instructions are provided for the operator and the organizational maintenance personnel 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 this category of maintenance for troubleshooting, testing, adjusting, aligning and repairing the equipment and replacing maintenance parts.

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.


1-3.1. Administrative Storage
Administrative storage of equipment issued to and used by Army activities shall be in accordance with TM 740-90-1.

1-3.2. Destruction of Army Electronics Materiel.
Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

1-4. Reporting of Errors.
You can help improve this manual by calling attention to errors and by recommending improvements and stating your reasons for the recommendations. Your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) should be mailed direct to Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, New Jersey 07703. A reply will be furnished direct to you.

1-4.1. Reporting Equipment Improvement Recommendations (EIR).
EIR's will be prepared using DA Form 2407 (Maintenance Request). Instructions for preparing EIR's are provided in TM 38-750, The Army Maintenance Management System. EIR's should be mailed direct to Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, New Jersey 07703. A reply will be furnished direct to you.

Section II. DESCRIPTION AND DATA

1-5. Description and Use
a. Voltmeter, Electronic AN/URM-145B (voltmeter) is a sensitive instrument for the measurement of voltages of 300 microvolt (uv) to 3 volts spanning a frequency range of 20 kilohertz (KHz) to 600 megahertz (MHz). In addition to conveniently measuring voltage levels in a diversity of radiofrequency (rf) circuits, the instrument has application for many associated tests. Such measurements include the frequency response of both active and passive networks; that is, amplifiers, and filters; voltage standing wave ratio (vswr) anti return loss on transmission lines and attendant systems; attenuation and insertion loss of rf attenuators; and high frequency parameters of transistors. With true root mean square (rms) response below 0.03 volt, wide hand noise can be measured, and by use