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DEPARTMENT OF THE ARMY TECHNICAL MANUAL

**OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL**

**INCLUDING
REPAIR PARTS AND SPECIAL TOOL LISTS**

**GENERATOR,
SIGNAL
AN/URM 149**

(NSN 6625-00-903-3501)

This copy is a reprint which includes current pages from Changes 1 and 2.

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**CHAPTER 1
INTRODUCTION**

Section I. GENERAL

1-1. Scope

This manual describes Generator, Signal AN/URM-149 (fig. 1-1) and provides instructions for installation, operation and operator and organizational maintenance. It includes instructions for operation under usual and unusual conditions and for replacement of parts which are available to the operator and organizational repair technician.

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 (Packaging Improvement Report) as prescribed in AR 700-58/NAVSUPINST 4030.29/AFR 7113/MCO P 4030.29A, 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 4610.3.3A ARF 75-18/MCO P4610.19B and DSAR 4500.15.

1-3.1. 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: DRSEL-MA-Q, Fort Monmouth, NJ 07703.

1-3.2. 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, NJ 07703.

1-3.3. Administrative Storage

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

1-3.4. Destruction of Army Electronics Materiel

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

Section II. DESCRIPTION AND DATA

1-4. Purpose and Use

Generator, Signal AN/URM-149 is a portable signal generator capable of producing unmodulated or frequency modulated (FM) signals in the 600- to 1,850-magacycle (me) signal range. The AN/URM-149 is used for testing, aligning, and repairing FM receivers operating within its frequency range.

1-5. Technical Characteristics

Frequency range..... 600 to 1,850 mc.
 Type of output..... RF; unmodulated or frequency modulated.
 Internal modulation characteristics:
 Frequencies
 available 1 kc, 1.6 kc, 20 kc, 68 kc, and 108 kc.
 Deviation 0 to 300 kc.