

**TECHNICAL MANUAL**  
**OPERATOR'S, ORGANIZATIONAL, DIRECT**  
**SUPPORT, AND**  
**GENERAL SUPPORT MAINTENANCE MANUAL**  
**SIGNAL GENERATOR**  
**AN/USM-44C**

**(NSN 6625-00-138-7773)**

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

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

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**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND**

**GENERAL SUPPORT MAINTENANCE MANUAL  
SIGNAL GENERATOR AN/USM-44C**

**(NSN 6625-00-138-7773)**

**Current as of December 15, 1976**

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), direct to Commander US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

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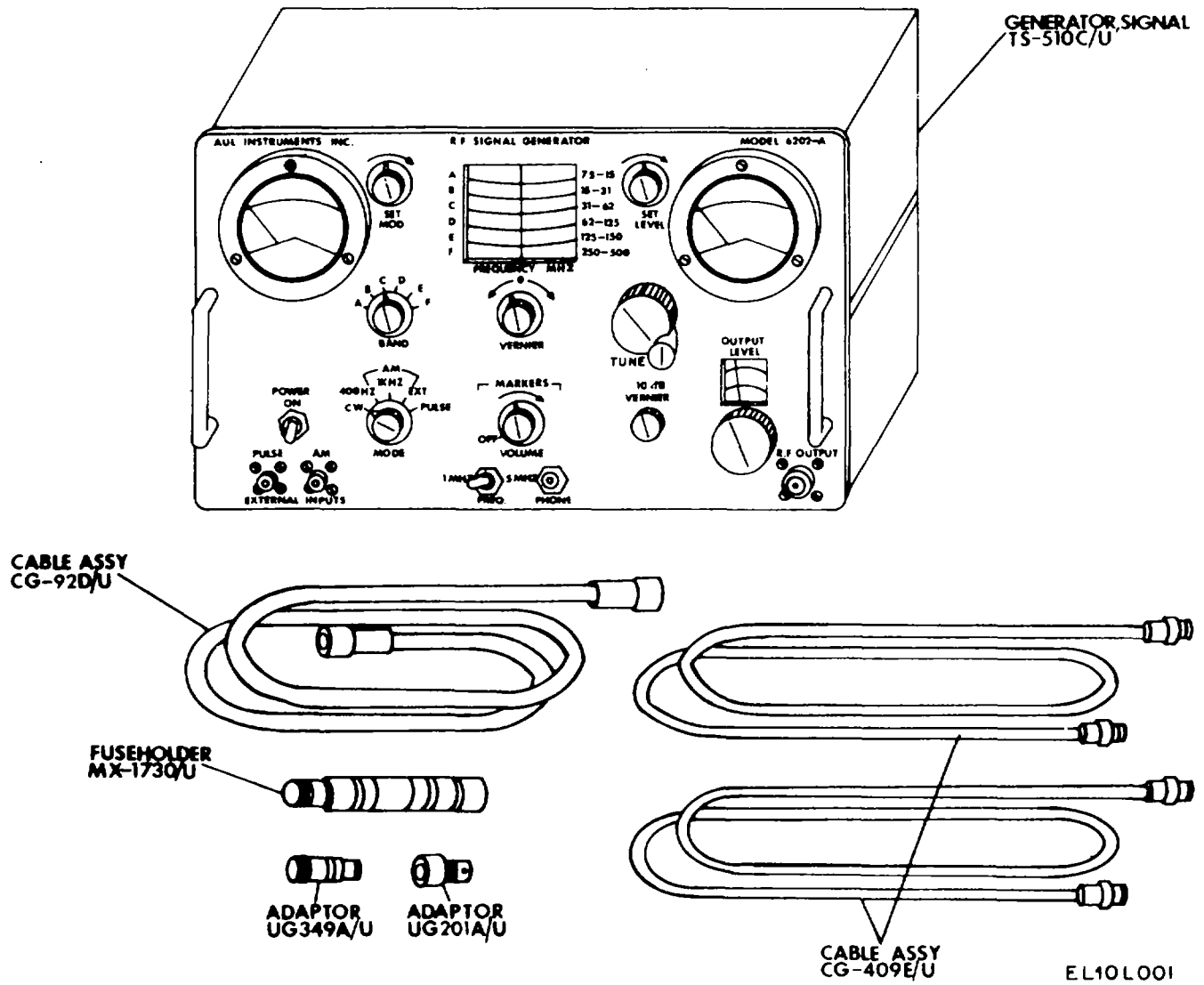


Figure 1-1. Signal Generator AN/USM-44C, less Case CY-7520/USM-44C

## CHAPTER 1 INTRODUCTION

### Section I. GENERAL

#### 1-1. Scope

This manual describes Signal Generator AN/USM44C and covers the installation, operation, organizational, direct support, and general support maintenance instructions for the equipment.

#### 1-2. Consolidated Index of Army Publications and Blank Forms

Refer to the latest issue of DA Pam 310-1 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

#### 1-3. Maintenance Forms, Records and Reports

*a. Reports of Maintenance and Unsatisfactory Equipment.* Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System (TAMMS).

*b. Report of Packaging and Handling Deficiencies.* Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/NAVMATINST 4355.73/AFR 400-54/MCO 4430.3E.

*c. Discrepancy in Shipment Report (DISREP) (SF 361).* Fill out and forward Discrepancy in Shipment

Report (DISREP) (SF 361) as prescribed in AR 5538/NAV SUPINST 4610.33B/AFR 7518/MCO P4610.19 C/DLAR 4500.15.

#### 1-4. Administrative Storage

Refer to TM 740-90-1 for administrative storage procedures.

#### 1-5. Destruction of Army Electronics Materiel

Destruction of Army electronics materiel shall be in accordance with TM 750-244-2 under the direction of the commander.

#### 1-6. Reporting Equipment Improvement Recommendations (EIR)

If your Signal Generator AN/USM44C needs improvement, let us know. Send us an EIR. You the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Put it on an SF 368 (Quality Deficiency Report). Mail it to Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth, NJ 07703. We'll send you a reply.

### Section II. DESCRIPTION AND DATA

#### 1-7. Purpose and Use

Signal Generator AN/USM-44C is a general purpose, high-frequency signal generator set (fig. 1-1) that provides radio frequency (rf) signals used to test, evaluate and align radio receivers, rf equipment and amplifiers. The AN/USM-44C provides continuous wave (cw), amplitude modulated (am.), and pulse modulated (pm) signals in the frequency range of 10 megaHertz (MHz) to 480 MHz, with an output level range of - 127 to + 13 dbm. The output is calibrated, metered, and leveled

across the entire range of frequencies and levels.

#### 1-8. Description

The AN/USM-44C consists of Signal Generator TS-510C/U, Case, Signal Generator CY-7520/USM-44C (fig. 1-2), three cable assemblies (two each CG-409E/U and one CG-92D/U), Fuseholder MX-1730/U and two Adapters UG-349A/U and UG-201A/U Table 1-1 lists the items comprising an operable equipment with their National Stock number (NSN), dimensions and weights.