

**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.

		Paragraph	Page
CHAPTER	1. INTRODUCTION		
Section	I. General		
	Scope .....	1-1	1-1
	Consolidated Index of Army Publications and Blank Forms .....	1-2	1-1
	Maintenance forms, records and reports.....	1-3	1-1
	Administrative storage .....	1-4	1-1
	Destruction of Army electronics materiel.....	1-5	1-1
	Reporting equipment improvement recommendations (EIR).....	1-6	1-1
	II. Description and data		
	Purpose and use.....	1-7	1-1
	Description.....	1-8	1-1
	Components .....	1-9	1-3
	Tabulated data.....	1-10	1-3
CHAPTER	2. SERVICE UPON RECEIPT AND INSTALLATION		
Section	I. Site and shelter requirements		
	Siting .....	2-1	2-1
	Shelter requirements .....	2-2	2-1
	II. Service upon receipt of materiel		
	Packing data.....	2-3	2-1
	Unpacking.....	2-4	2-1
	Checking unpacked equipment.....	2-5	2-2
	III. Installation instructions		
	Tools, test equipment and materials required .....	2-6	2-3
	Assembly and installation .....	2-7	2-3
	IV. Preliminary adjustment and alignment		
	Power requirement.....	2-8	2-3
	Circuit alignment.....	2-9	2-3

		Paragraph	Page
Chapter	3. OPERATING INSTRUCTIONS		
Section	I. Controls and instruments		
	Damage from improper settings.....	3-1	3-1
	Operator's controls.....	3-2	3-1
	II. Operation under usual conditions		
	Preliminary starting procedure .....	3-3	3-3
	Operating procedure.....	3-4	3-3
	Dial calibration .....	3-5	3-4
	Standby and shutdown .....	3-6	3-4
	Operation under unusual conditions.....	3-7	3-4
	Preparation for movement .....	3-8	3-4
CHAPTER	4. OPERATOR MAINTENANCE		
Section	I. General		
	Scope of operator maintenance.....	4-1	4-1
	Operator tools and test equipment.....	4-2	4-1
	Lubrication.....	4-3	4-1
	II. Preventive maintenance		
	General.....	4-4	4-1
	Preventive maintenance checks and services.....	4-5	4-1
	Trouble indications.....	4-6	4-1
CHAPTER	5. ORGANIZATIONAL MAINTENANCE		
	Scope of organizational maintenance .....	5-1	5-1
	Repainting and refinishing.....	5-2	5-1
	Lubrication.....	5-3	5-1
	Preventive maintenance checks and services.....	5-4	5-1
	Fuse and lamp replacement .....	5-5	5-1
	Replacing fuse in fuseholder MX-1730/U .....	5-6	5-2
CHAPTER	6. FUNCTIONING OF EQUIPMENT		
Section	I. Functional description		
	General.....	6-1	6-1
	Oscillator assembly A1 .....	6-2	6-3
	Divider assembly A8 .....	6-3	6-3
	Amplifier and leveler assembly A9.....	6-4	6-3
	Modulation oscillator assembly A7.....	6-5	6-3
	Meter and amplitude regulator assembly A6.....	6-6	6-3
	Marker oscillator assembly A5 .....	6-7	6-3
	Rectifier and power supply regulator assemblies .....	6-8	6-3
	Attenuator assembly A2.....	6-9	6-3
	II. Detailed description		
	General.....	6-10	6-3
	Oscillator assembly A1 .....	6-11	6-3
	Divider assembly A8.....	6-12	6-3
	Amplifier and leveler assembly A9 .....	6-13	6-4
	Modulation oscillator assembly .....	6-14	6-4
	Meter and amplitude regulator assembly A6 .....	6-15	6-4
	Marker oscillator assembly A5 .....	6-16	6-5
	Rectifier assembly A3 .....	6-17	6-5
	Power supply and regulator assembly All.....	6-18	6-5
	Output attenuator assembly A2.....	6-19	6-5
CHAPTER	7. DIRECT AND GENERAL SUPPORT MAINTENANCE		
Section	I. General		
	Maintenance diagrams.....	7-1	7-1
	Tools and test equipment required.....	7-2	7-1
	II. Troubleshooting		
	General.....	7-3	7-1
	Power supply tests.....	7-4	7-2
	Rf output level troubleshooting.....	7-5	7-5
	Oscillator assembly troubleshooting .....	7-6	7-5
	Divider assembly troubleshooting .....	7-7	7-6
	Rf amplifier assembly troubleshooting .....	7-8	7-9
	Meter and amplitude regulator assembly troubleshooting .....	7-9	7-11
	Modulation oscillator assembly troubleshooting .....	7-10	7-11
	Marker oscillator assembly troubleshooting .....	7-11	7-14
	III. Alignment and adjustment		
	General.....	7-12	7-17
	Oscillator A1 .....	7-13	7-18

	Paragraph	Page
SECTION	III. Alignment and adjustment-Continued	
	Attenuator A2 alignment .....	7-14 7-19
	Power supply All adjustments .....	7-15 7-21
	Rf divider An adjustment .....	7-16 7-21
	Filter alignment test .....	7-17 7-21
	Meter and amplitude regulator assembly A6 alignment .....	7-18 7-23
	Modulation oscillator A7 adjustments .....	7-19 7-25
	Marker oscillator assembly A5 alignment .....	7-20 7-25
	Rf amplifier A9 alignment .....	7-21 7-21
	IV. General support testing procedures	
	General .....	7-22 7-27
	Mechanical tests and inspections .....	7-23 7-27
	Electrical tests .....	7-24 7-27
APPENDIX	A. REFERENCES .....	A-1
	B. BASIC ISSUE ITEMS LIST (BIIL) AND ITEMS TROOP INSTALLED OR AUTHORIZED (ITIAL) (Not applicable)	
	C. MAINTENANCE ALLOCATION	
Section	I. Introduction .....	C-1
	II. Maintenance allocation chart .....	C-3

**LIST OF ILLUSTRATIONS**

Number	Title	Page
1-1	Signal Generator AN/USM-44C, less Case, CY-7520/USM-44C.....	1-0
1-2	Case, Signal Generator CY-7520/USM-44C .....	1-2
2-1	Packaging diagram .....	2-2
3-1	Operator's controls and instruments .....	3-2
6-1	AN/USM-44C, block diagram .....	6-2
7-1	Rectifier board A3, parts location .....	7-2
7-2	Power supply regulator All, parts location .....	7-3
7-3	Power supply regulator All, circuit measurements .....	7-4
7-4	Rf divider board A8A1, parts location (Sheet 1 of 2) .....	7-7
7-4	Rf divider board A8A1, parts location (Sheet 2 of 2) .....	7-8
7-5	Rf divider board A9A1, circuit measurements .....	7-9
7-6	Rf amplifier board A9A1, circuit measurements .....	7-9
7-7	Rf preamplifier board A9A2, circuit measurements .....	7-10
7-8	Rf preamplifier board A9A2, parts location .....	7-10
7-9	Meter and amplitude regulator A6, parts location .....	7-12
7-10	Meter and amplitude regulator A6, circuit measurements .....	7-12
7-11	Modulation oscillator A7, parts location .....	7-13
7-12	Modulation oscillator A7, circuit measurements .....	7-14
7-13	Waveform data .....	7-15
7-14	Marker oscillator A5, parts location .....	7-16
7-15	Marker oscillator A5, circuit measurements .....	7-17
7-16	Tuning dial adjustment.....	7-18
7-17	Frequency accuracy, test setup .....	7-19
7-18	Attenuator assembly, exploded view.....	7-20
7-19	Rf divider A8 alignment, test setup .....	7-21
7-20	Filter alignment, test setup .....	7-22
7-21	Output power adjustment, test setup .....	7-23
7-22	Modulation adjustment, test setup .....	7-24
7-23	Marker frequency adjustment, test setup .....	7-26
7-24	Marker amplitude adjustment, test setup .....	7-27
FO-1	Color code markings for MIL STD resistors, inductors, and capacitors .....	Back of manual
FO-2	Schematic diagram (Sheet 1 of 3) .....	Back of manual
FO-2	Schematic diagram (Sheet 2 of 3) .....	Back of manual
FO-2	Schematic diagram (Sheet 3 of 3) .....	Back of manual
FO-3	Overall wiring diagram .....	Back of manual
FO-4	Main chassis, parts location (Sheet 1 of 2) .....	Back of manual
FO-4	Main chassis, parts location (Sheet 2 of 2) .....	Back of manual
FO-5	Oscillator assembly A1, parts location .....	Back of manual
FO-6	Rf divider assembly A8, parts location .....	Back of manual
FO-7	Rf amplifier assembly A9, exploded view .....	Back of manual
FO-8	Circuit board A9A1, parts location.....	Back of manual

LIST OF TABLES

<i>Number</i>	<i>Title</i>	<i>Page</i>
1-1	Items comprising an operable equipment .....	1-2
1-2	Tabulated data.....	1-3
3-1	Operator's controls and instruments .....	3-3
3-2	Preliminary control settings.....	3-4
4-1	Operator preventive maintenance checks and services .....	4-2
5-1	Organizational preventive maintenance checks and services .....	5-1
7-1	Dc resistance of transformer windings .....	7-1
7-2	Troubleshooting and fault isolation .....	7-2
7-3	Power supply voltages.....	7-3
7-4	Power supply resistances .....	7-5
7-5	Rf divider A8, voltage and resistance measurements .....	7-6
7-6	Filter assemblies, voltage and resistance measurements .....	7-9
7-7	Rf amplifier A9, voltage and resistance measurements .....	7-11
7-8	Alignment schedule .....	7-18
7-9	Filter specifications .....	7-22
7-10	Mechanical tests and inspection .....	7-27
7-11	Electrical tests .....	7-28

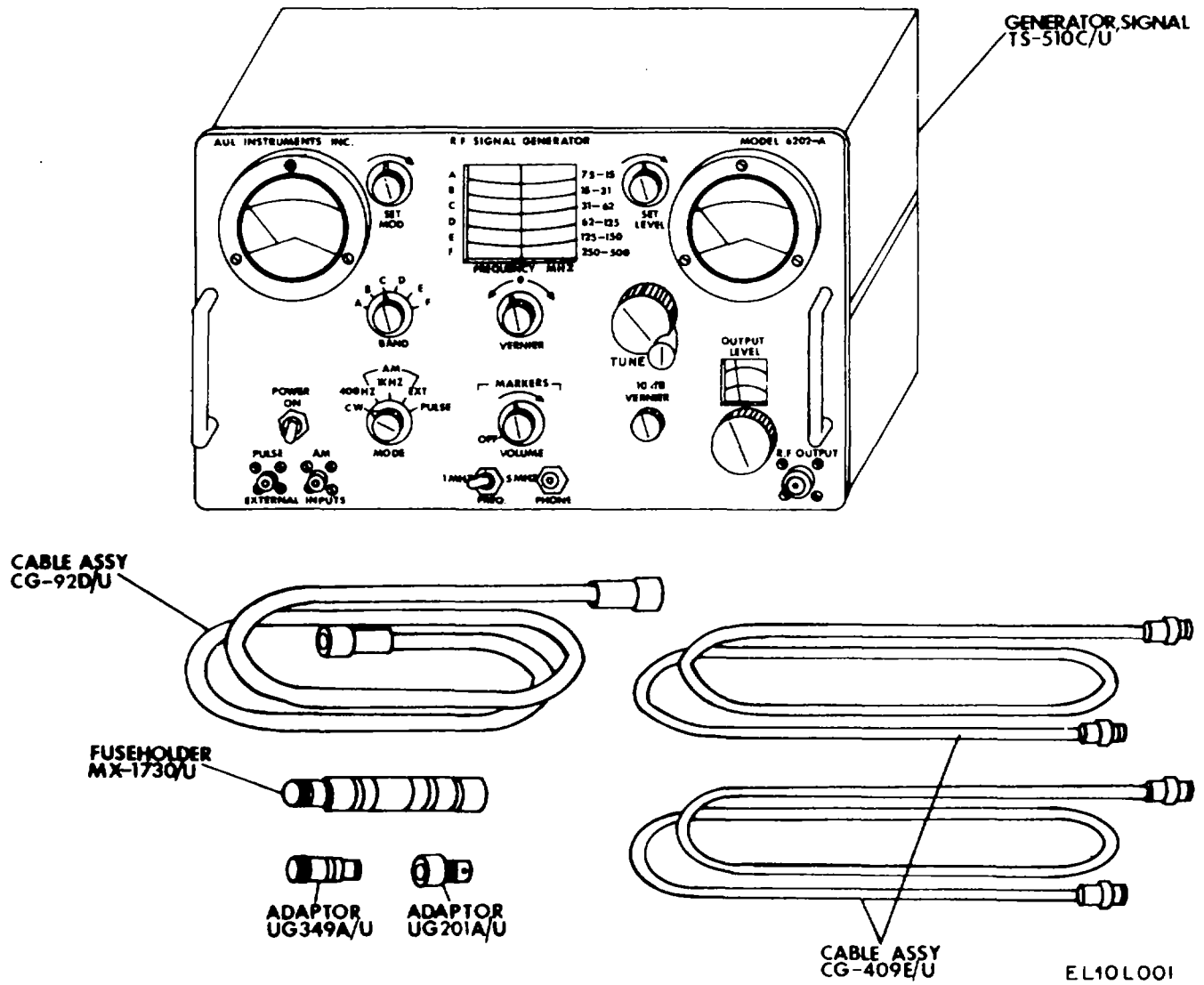


Figure 1-1. Signal Generator AN/USM-44C, less Case CY-7520/USM-44C

## 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.