

TECHNICAL MANUAL

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

SIGNAL GENERATORS SG-299/U

(NSN 6625-00-624-3516),

SG-299A/U (NSN 6625-00-897-0060),

SG-299B/U (NSN 6625-00-808-5584),

SG-299C/U (NSN 6625-00-916-8541),

SG-299D/U (NSN 6625-00-765-6656),

AND SG-299E/U

HEADQUARTERS, DEPARTMENT OF THE ARMY

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**Operator's, Organizational, Direct Support,
 and General Support Maintenance Manual**

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		Paragraph	Page
CHAPTER	1. INTRODUCTION		
Section	I. General.....	1-1-1-6	1-1
	II. Description and data.....	1-7-1-12	1-1
CHAPTER	2. SERVICE UPON RECEIPT OF EQUIPMENT AND INSTALLATION.....	2-1-2-4	2-1
Section	3. OPERATING INSTRUCTIONS		
	I. Controls and instruments.....	3-1,3-2	3-1
	II. Operation under usual conditions.....	3-3-3-6	3-3
	III. Operation under unusual conditions.....	3-7-3-9	3-5
CHAPTER	4. OPERATOR AND ORGANIZATIONAL MAINTENANCE INSTRUCTIONS		
Section	I. Operator and organizational tools and equipment.....	4-1-4-3.	4-1
	II. Preventive maintenance checks and services.....	4-4-4-10	4-1
	III. Troubleshooting.....	4-11-4-13	4-4
CHAPTER	5. FUNCTIONING OF EQUIPMENT.....	5-1-5-8	5-1
Section	6. GENERAL SUPPORT MAINTENANCE		
	I. General.....	6-1,6-2	6-1
	II. General support tools and test equipment.....	6-3 6-4	6-1
	III. Troubleshooting.....	6-5-6-9	6-1
	IV. Maintenance of the signal generator.....	6-10-6-16	6-21
	V. General support testing procedures.....	6-17-6-29	6-27
APPENDIX	A. REFERENCES.....		A-1
	B. BASIC ISSUE ITEMS LIST (BILL) AND ITEMS TROOP INSTALLED OR AUTHORIZED LIST (ITIAL) (not applicable)		
Section	C. MAINTENANCE ALLOCATION		
	I. Introduction.....		C-1
	II. Maintenance allocation chart.....		C-3
INDEX		Index 1

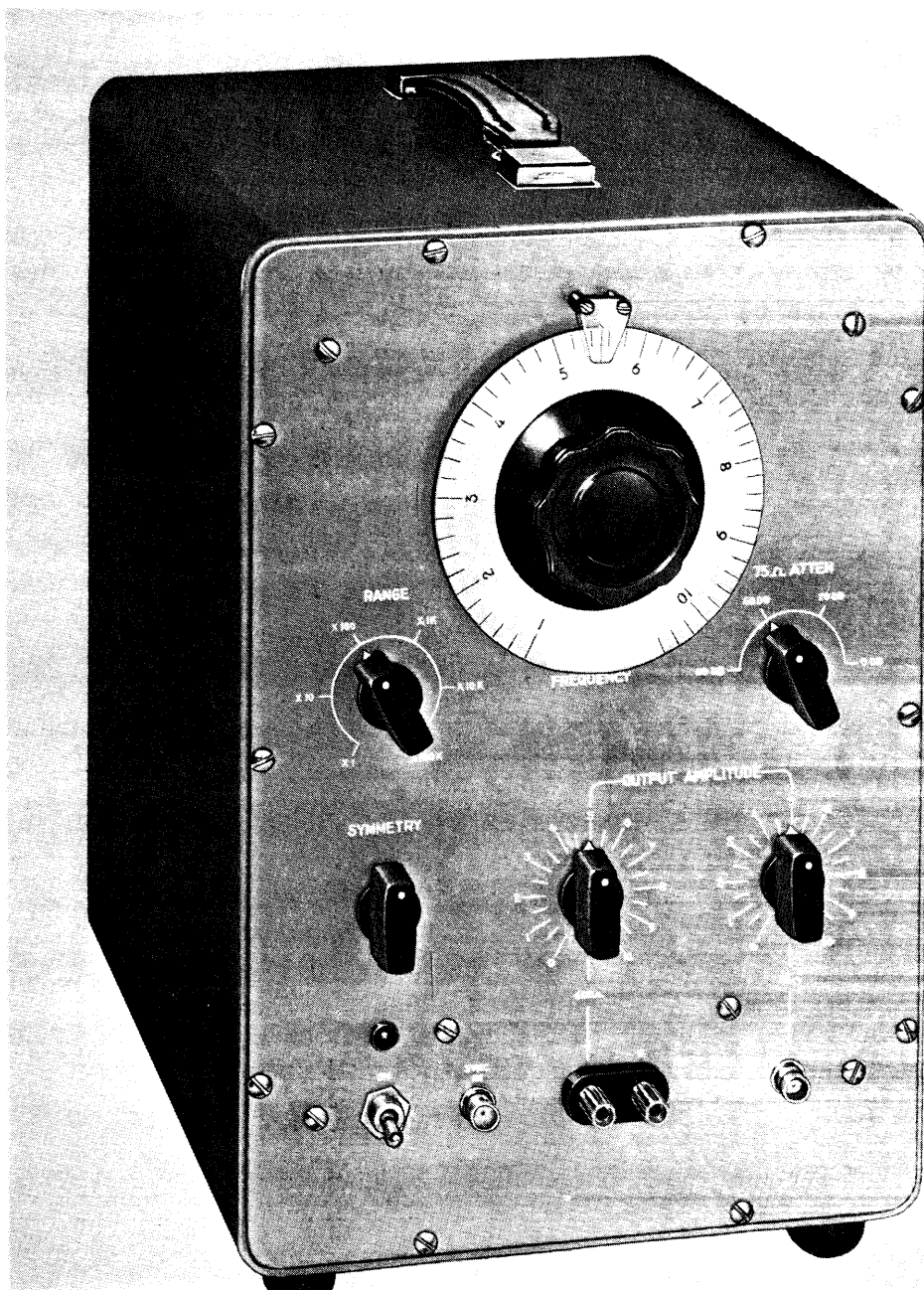
*This manual supersedes TM 11-5134-15, 14 May 1958, including all changes.

LIST OF ILLUSTRATIONS

<i>Number</i>	<i>Title</i>	<i>Page</i>
1-1	Signal Generator SG-229(*)/U.	1-0
2-1	Typical packaging diagram.	2-1
3-1	Signal Generator SG-299/U, controls and indicators.	3-2
3-2	Test setup.	3-4
3-3	Impedance matching networks.	3-5
4-1	Fan motor oilhole locations.	4-3
4-2	Signal Generator SG-299/U, SG-299B/U, SG-299C/U, SG-299D/U, and SG-299E/U, tube location.	4-5
4-3	Signal Generator SG-299A/U, tube locations.	4-6
5-1	Signal Generator SG-299(*)/U, block diagram.	5-2
5-2	Multivibrator circuit, simplified schematic diagram.	5-4
5-3	RANGE switch schematic diagram.	5-5
5-4	Sync trigger circuit, simplified schematic diagram.	5-6
5-5	Clipper amplifier circuit, simplified schematic diagram.	5-8
5-6	Power amplifier circuit, simplified schematic diagram.	5-9
5-7	Attenuator switch schematic diagram.	5-10
5-8	Power supply circuit (SG-299/U model), simplified schematic diagram.	5-11
6-1	Tube socket voltage and resistance diagram (unlettered, B, D, and E models).	6-3
6-2	Tube socket voltage and resistance diagram (A and C models).	6-4
6-3	Signal Generator SG-299/U, parts location, top view.	6-8
6-4	Signal Generator SG-299A/U, adjustments.	6-9
6-5	Signal Generator SG-299/U, parts location, bottom view.	6-10
6-6	Signal Generator SG-299A/U, parts location, bottom view.	6-11
6-7	Signal Generator SG-299A/U (Order No. 4502-PP-60) and SG-299C/U, parts location, bottom view.	6-12
6-8	Signal Generator SG-299B/U, SG-299D/U, and SG-299E/U, parts location, bottom view, part 1.	6-13
6-9	Signal Generator SG-299B/U and SG-299D/U, and SG-299E/U, parts location, bottom view, part 2.	6-14
6-10	Signal Generator SG-299A/U, parts location, side view.	6-15
6-11	Signal Generator SG-299A/U, parts location, terminal board.	6-16
6-12	Signal Generator SG-299A/U sync trigger and multivibrator chassis, parts location, top view.	6-17
6-13	Signal Generator SG-299B/U, SG-299D/U, and SG-299E/U sync trigger and multivibrator chassis, parts location, left side view.	6-18
6-14	Signal Generator SG-299B/U, SG-299D/U, SG-299E/U sync trigger and multivibrator chassis, parts location, right side view.	6-19
6-15	Waveforms use with troubleshooting table.	6-20
6-16	Signal Generator SG-299/U, location of adjustment controls.	6-23
6-17	Signal Generator SG-299B/U, SG-299D/U, and SG-299E/U, location of adjustment controls.	6-24
6-18	Frequency adjustment test setup.	6-25
6-19	Symmetrical and nonsymmetrical waveforms.	6-25
6-20	External synchronization sensitivity test setup.	6-26
6-21	Symmetry test setup.	6-30
6-22	Low impedance output voltage test setup.	6-32
6-23	High impedance output voltage test setup.	6-34
6-24	Low impedance output attenuation test setup.	6-36
6-25	External synchronization test setup.	6-38
6-26	Frequency range tracking test setup.	6-40
6-27	Output amplitude, line voltage variation test setup.	6-44
6-28	Output frequency, line voltage variation test setup.	6-46
FO-1	Color code marking MIL-STD resistors, inductors, and capacitors.	
FO-2	Signal Generator, sync trigger and multivibrator, schematic diagram.	
FO-3	Signal Generator, amplifier stages, schematic diagram.	
FO-4	Signal Generator SG-299/U, power supply, schematic diagram.	
FO-5	Signal Generator SG-299A/U, power supply, schematic diagram.	
FO-6	Signal Generator SG-299B/U, SG-299C/U, SG-299D/U, and SG-299E/U, power supply, schematic diagram.	

LIST OF TABLES

Number	<i>Title</i>	<i>Page</i>
3-1	Operator Controls, Indicators, and Connectors	3-3
4-1	Operator/Crew Preventive Maintenance Checks and Services	4-2
4-2	Organizational Preventive Maintenance Checks and Services (Monthly).	4-2
4-3	Organizational Preventive Maintenance Checks and Services (Quarterly).	4-3
4-4	Organizational Troubleshooting.	4-4
4-5	Adjustments Following Tube Replacements.	4-6
6-1	Short Circuit Tests.	6-5
6-2	Troubleshooting	6-5
6-3	Resistances of Transformer Windings and Coils.	6-21
6-4	Physical Tests and Inspections.	6-28
6-5	Symmetry Test.	6-31
6-6	Low Impedance Output Voltage Test.	6-33
6-7	High Impedance Output Voltage Test.	6-35
6-8	Low Impedance Output Attenuation Test.	6-37
6-9	External Synchronization Test.	6-39
6-10	Frequency Range Tracking Test.	6-41
6-11	Output Amplitude, Line Voltage Variation Test.	6-45
6-12	Output Frequency, Line Voltage Variation Test.	6-47



EL6625-258-14--TM-I

Figure 1-1. Signal Generator SB-299(*)/U.

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This manual describes Signal Generator SG - 299(*)/U and provides instructions for installation, operation, and operator, organizational, and general support maintenance. No direct support maintenance is authorized for this equipment. Figure 1-1 illustrates model SG - 299/U; all other models are similar.

b. Official nomenclature followed by (*) is used to indicate all models of the equipment covered in this manual. This Signal Generator SG-299(*)/U represents Signal Generator SG-299/U, SG - 299A/U, SG-299B/U, SG-299C/U, SG-299D/U, and SG-299E/U. Information in this manual applies to all models unless otherwise specified.

c. A list of references is contained in appendix A.

d. A maintenance allocation chart (MAC) is contained in appendix C.

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 (M WO'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 71.13/MCO P4030.29A, 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 4610.33 A/AFR75-18/MCO P4610.19B, and DSAR 4500.15.

1-4. 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-Q, Fort Monmouth, NJ 07703.

1-5. Administrative Storage

The procedures for administrative storage are outlined in TM 740-90-1; however, the exact procedure in repacking for limited storage depends on the materials available and the condition under which the equipment is to be stored.

1-6. Destruction of Army Materiel to Prevent Enemy Use

Refer to TM 750-244-2 for destruction procedures for electronic equipment. Demolition and destruction will be under the direction of the commander.

Section II. DESCRIPTION AND DATA

1-7. Purpose and Use

Signal Generator SG-299(*)/U is a wide-range (1 Hz to 1 MHz), squarewave generator. It is used with an oscilloscope to determine the frequency response and phase shift characteristics of video and audio amplifiers. Amplifier gain measurements may also be made with this

equipment. Signal Generator SG-299(*)/U will be referred to as signal generator throughout this manual.

1-8. Description

a. This equipment consists of the signal generator (fig. 1-1) and running spares. The