

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

H E A D Q U A R T E R S , D E P A R T M E N T O F T H E A R M Y

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TECHNICAL MANUAL }
No. 11-6625-258-14 }HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 13 June 1975**Operator's, Organizational, Direct Support,
and General Support Maintenance Manual****SIGNAL GENERATORS SG-299/ U (NSN 6625-00-624-3516),
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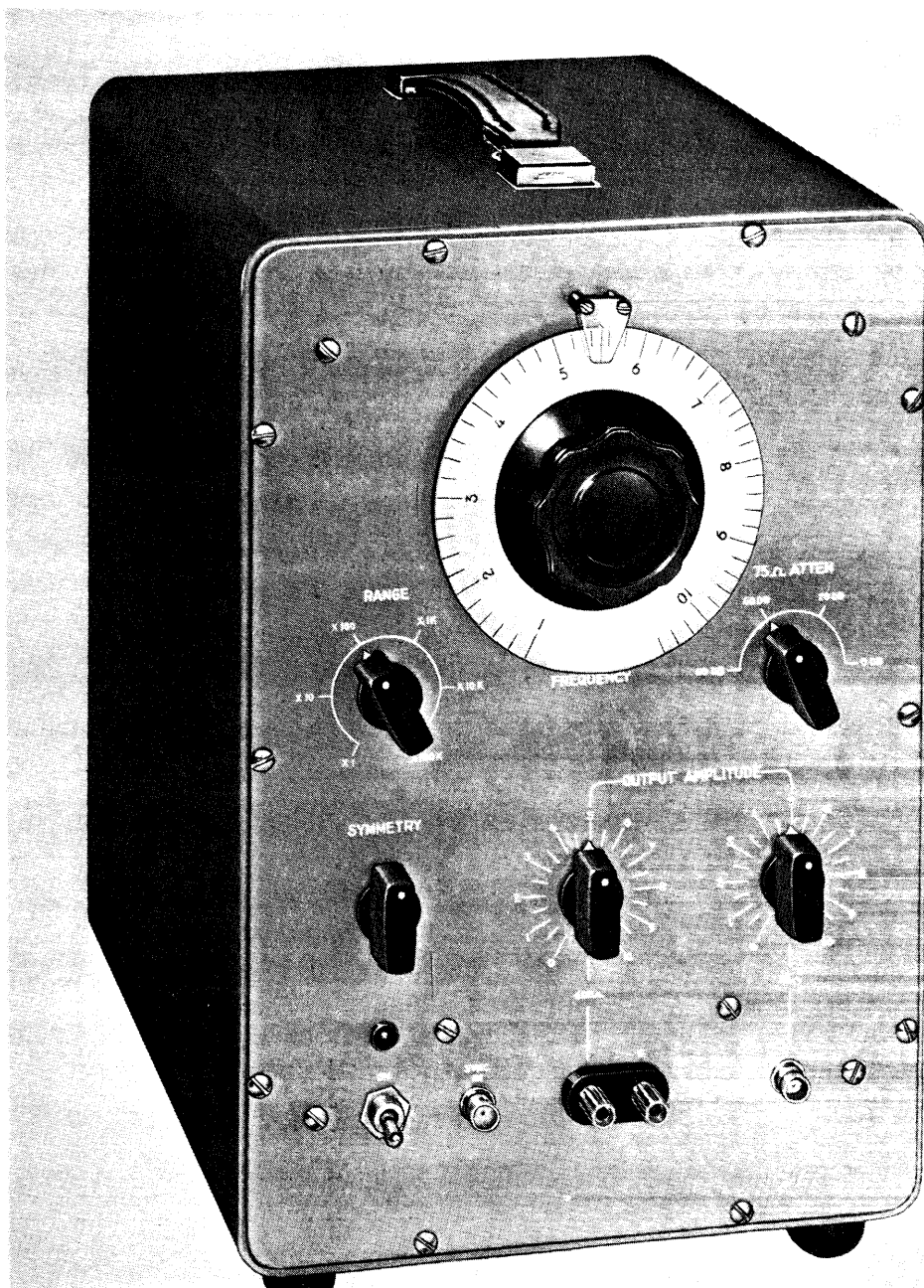
*This manual supersedes TM 11-5134-15, 14 May 1958, including all changes.

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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