

TECHNICAL MANUAL

GS AND DEPOT MAINTENANCE MANUAL

PULSE GENERATOR SG-3366A/U

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

TECHNICAL MANUAL

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HEADQUARTERS
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GS AND DEPOT MAINTENANCE MANUAL

GENERATOR, PULSE SG-366A/U

(NSN 6625-00-168-0471)

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-MP, Fort Monmouth, New Jersey 07703. In either case, a reply will be furnished direct to you.

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CHAPTER 1

FUNCTIONING

Section I. GENERAL

1-1. Scope

a. This manual covers general support and depot maintenance for Pulse Generator SG-366 A/U (pulse generator). It includes instructions appropriate to general support and depot maintenance categories for troubleshooting, testing, and repairing specified maintenance parts. It also lists tools, materials, and test equipment for general support and depot maintenance. Detailed functioning of the equipment is covered in paragraphs 1-3 through 1-17.

NOTE

There are no maintenance functions assigned to direct support maintenance.

b. The complete technical manual for this equipment includes TM 11-6625-435-12-1.

c. The SG-366A/U's procured on Contract No. DAAB07-82-C-H201 (Serial No. 46-1 through 46-20 and 47-1 through 47-15) differ from the SG-366A/U's previously procured. Unless otherwise indicated, information contained herein is applicable to all SG-366A/U's. Differences are described when the information is not applicable to all SG-366A/U's.

(1) Information applicable only to early models (procured on other contracts) is identified as applicable to Version A (illustrations and equipment).

(2) Information applicable only to model procured on Contract No. DAAB07-82-C-H201 is identified as applicable to Version B (illustrations and 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.

1-2.1. 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.

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 A/AFR 400.54/MCO 4430.3F.

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 4610.33C/AFR 75-18/MCO P4610.19D/DLAR 4500.15.

1-2.2. Reporting Equipment Improvement Recommendations (EIR)

If your Generator, Pulse SG-366A/U 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, For Monmouth, New Jersey 07703. We'll send you a reply.

1-2.3. Administrative Storage

Administrative storage of equipment issued to and used by Army activities will have preventive maintenance performed in accordance with TM 740-90-1.

1-2.4. Destruction of Army Electronics Materiel

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-224-2.

1-3. Block Diagram

(fig. 1-1 or 1-1.1)

Pulse Generator SG-366A/U is a fully transistorized pulsed carrier generator which provides continuous wave (cw), pulsed carrier, or video pulse output signals. It is used in conjunction with an oscilloscope to test the steady state and transient response of radiofrequency (rf), intermediate frequency (if.), and video amplifiers in radar, television, and other equipment. Signal paths are shown in the block diagram and are described in *a* through *n* below. Figure 1-1 is the block diagram of version A and figure 1-1.1 is the block diagram of version B. For complete circuit details, refer to section II of this chapter and the applicable overall schematic diagram. Figure 5-2 is the overall schematic diagram for version A and figure 5-3 is the overall schematic diagram of version B.

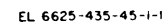


Figure 1-1. Pulse Generator SG-366A/U, Version A, Block Diagram.