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DEPARTMENT OF THE ARMY TECHNICAL MANUAL

**OPERATOR AND ORGANIZATIONAL
MAINTENANCE MANUAL
GENERATOR, PULSE SG-366/U**

This copy is a reprint which includes current
pages from Changes 1 through 3.

**HEADQUARTERS, DEPARTMENT OF THE ARMY
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GENERATOR, PULSE SG-366/U

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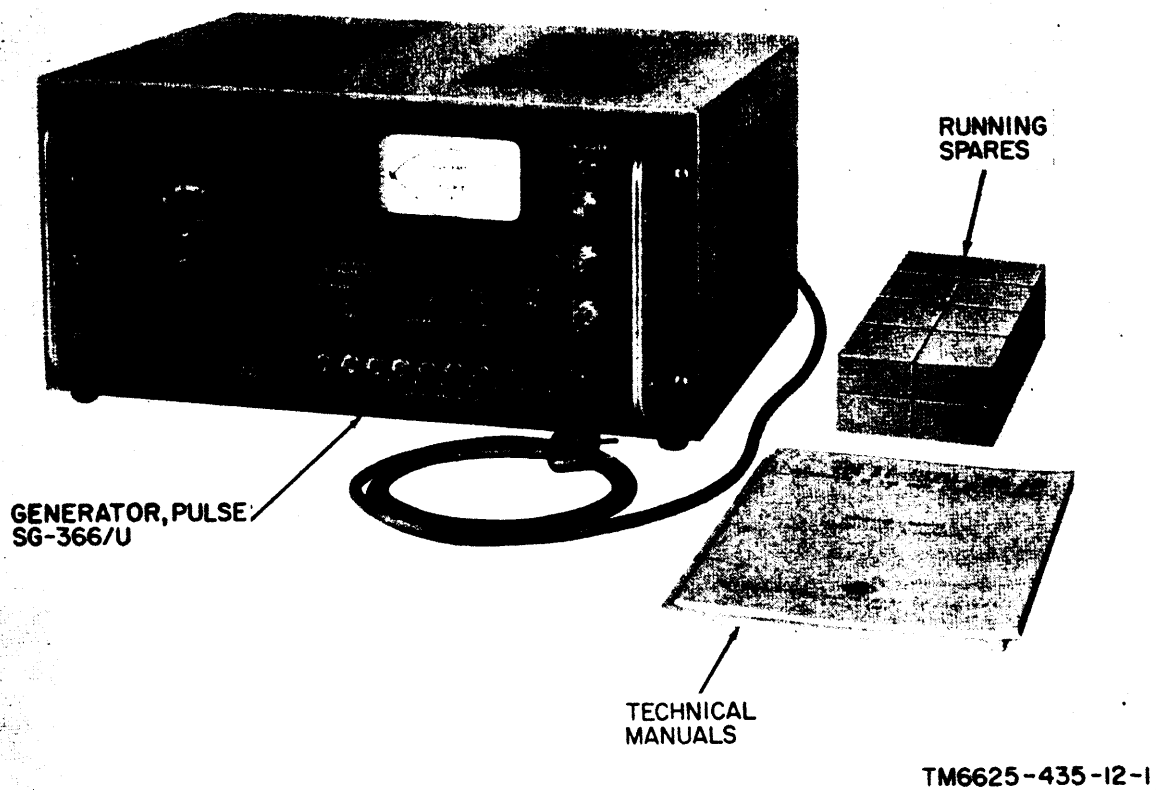


Figure 1. Generator, Pulse SG-366/U.

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1. Scope

This manual describes Generator, Pulse SG-366/U (fig. 1) and covers its installation, operation, operator's maintenance, and organizational maintenance. It includes operation under usual and unusual conditions, cleaning and inspection of the equipment, and replacement of parts available to first and second echelon maintenance.

2. Forms and Records

a. Reports of Unsatisfactory Equipment. Fill out and forward DA Form 468 (Unsatisfactory Equipment Report) as prescribed in AR 700-38.

b. Report of Damaged or Improper Ship-

ment. Fill out and forward DD Form 6 (Report of Damaged or Improper Shipment) as prescribed in AR 700-58.

c. Preventive Maintenance Forms. Prepare DA Form 11-266 (Maintenance Checklist for Signal Equipment (Test Equipment)) (figs. 8 and 9) in accordance with instructions on the form.

d. Comments on Manual. Forward all other comments on this publication direct to the Commanding Officer, U.S. Army Signal Materiel Support Agency, ATTN: SIGMS-PA2d, Fort Monmouth, N.J.

e. Index of Equipment Publications Refer to DA Pam 310-4 to determine what changes to or revisions of this publication are current.

Section II. DESCRIPTION AND DATA

3. Purpose and Use

a. Generator, Pulse SG-366/U is a portable signal source which provides continuous wave (cw), pulsed radiofrequency (rf), or video pulse output signals. It is used in conjunction with an oscilloscope to obtain a graphic representation of the steady state and transient response of rf, intermediate frequency (if.), and video amplifiers in radar, television, and other equipment.

b. The cw and pulsed rf outputs cover a frequency range of 10 to 80 megacycles in five bands. The pulse repetition rate (prf) is variable over the range of 400 to 4,000 pulses per second (pps), and the pulse width is variable from 0.20 to 20.0 microseconds (μ sec) in two ranges. Either an external trigger pulse or an internally generated trigger pulse can be selected to trigger Generator, Pulse SG-366/U. Provisions are included to supply a portion of the internally generated trigger pulse for syn-

chronizing the oscilloscope or other external circuits.

4. Technical Characteristics

Frequency range 10 to 15 mc.
15 to 22 mc.
22 to 34 mc.
34 to 53 mc.
53 to 80 mc.

Frequency calibration
accuracy $\pm 0.5\%$

Output impedance 50 ohms.

Types of output:

Cw 200 millivolts rms $\pm 5\%$,
across 50-ohm load.

Pulsed rf 200 millivolts rms $\pm 5\%$,
across 50-ohm load.

Video pulse 500 millivolts peak (nominal) maximum across 50-ohm load.

5.0 volts peak (nominal) maximum across 500-ohm load.