

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

GS AND DEPOT MAINTENANCE MANUAL
SIMULATOR, RADIO FREQUENCY
SM-442A/GRC

This copy is a reprint which includes
current pages from Changes 1 and 2.

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GS AND DEPOT MAINTENANCE MANUAL

SIMULATOR, RADIO FREQUENCY SM-442A/GRC

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*This manual supersedes TM 11-6625-847-45, 11 October 1967.

**CHAPTER 1
FUNCTIONING OF SIMULATOR, RADIO
FREQUENCY SM-422A/GRC**

Section I. GENERAL FUNCTIONING

1-1. Scope

a. This manual covers general support (GS) and depot maintenance for Simulator, Radio Frequency SM-442A/GRC (fig. 1-1). It includes instructions appropriate to GS and depot maintenance categories for troubleshooting, testing, aligning, and repairing the equipment, and replacing specified maintenance parts. It also lists test equipment, tools, and materials for GS and depot maintenance. Detailed functions of the equipment are covered in this chapter. The complete technical manual for this equipment includes TM 11-662-847-12.

b. Report 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.

NOTE

For applicable forms and records, see paragraph 1-3, TM 11-6625-847-12.

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 the latest issue of DA Pam 310-7 to determine whether there are modification work orders (MWOs) pertaining to the equipment.

1-3. Common Names and Abbreviated Reference Designators

a. *Common Names.*

<i>Equipment</i>	<i>Common name</i>
Radio Set AN/GRC-106 Simulator, Radio Frequency SM-442A/GRC	
Test set A2	Test set
Receiver-Transmitter, Radio RT-662/GRC Amplifier, Radio Frequency AM-3349/ GRC-106	
Common module tray A1A1	Tray A1A1
Common module tray A1A2	
Synthesizer test tray A1A3	Tray A1A3
Converter and control tray A1A4	Tray A1A4
Driver, discriminator, and antenna coupler tray A1A5	Tray A1A5

b. *Abbreviated Reference Designation.* The designator A2A1A1 refers to pulse generator assembly A1A1 which is part of test set A2. An abbreviation such as A1A1 will be used within a paragraph where the component is referenced. On common module tray A1A2, AUDIOGAIN control R1 may be referred to as A1A2R1 or it may be referred to as R1 within a paragraph where the identity will not be confused with other controls.