

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

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

RADIO SET AN/GRC-109

(NSN 5820-00-892-0881:)

This copy is a reprint which includes current:
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TECHNICAL MANUAL

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON 25, DC, 18 May 1962**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT****MAINTENANCE MANUAL****RADIO SET AN/GRC-109****(NSN 5820-00-892-0881)**

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Figure 1. Radio Set AN/GRC-109 in operation.

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1. Scope

This manual contains instructions for the installation, operation, maintenance, and repair of Radio Set AN/GRC-109 (fig. 1). It also includes three appendixes which list references, the basic issue items list and items troop installed or authorized list, and maintenance allocation.

1.1. 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 (MWO's) pertaining to the equipment.

2. 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 (Army).

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 DLAR 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 4610.33B/ AFR 75-18/MCO P4610.19C, and DLAR 4500.15.

2.1. Destruction of Army

Materiel Demolition and destruction of electronic equipment will be under the direction of the commander and in accordance with TM 750-244-2.

2.2. Administrative Storage

Prior to or after an administrative storage period, perform the maintenance procedures contained in paragraphs 31 through 33.

2.3. Reporting of Errors

Report of errors, omissions, and recommendations for improving this publication is authorized and encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forwarded direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ 07703.

2.4. Reporting Equipment Improvement Recommendations (EIR)

EIR's will be prepared using DA Form 2407, Maintenance Request. Instructions for preparing EIR's are provided in TM 38-750, the Army Maintenance Management System. EIR's should be mailed direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

Section II. DESCRIPTION AND DATA

3. Purpose and Use

a. Radio Set AN/GRC-109 is a compact, portable radio station used for continuous wave (cw) communications, at distances up to 75 miles, under a wide range of climatic conditions. Two power supplies

and a voltage regulator permit operation from a variety of power sources.

b. Only cw signals can be transmitted, but amplitude-modulated (am) voice and tone signals as well as cw signals can be received. Transmissions