

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR'S MANUAL

RADIO TRANSMITTING SET AN/GRT-3

This copy is a reprint which includes current
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TECHNICAL MANUAL

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Operator's Manual
RADIO TRANSMITTING SET AN/GRT-3

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***This manual supersedes TM 11-5820-27-10, 6 January 1959, including all changes.**

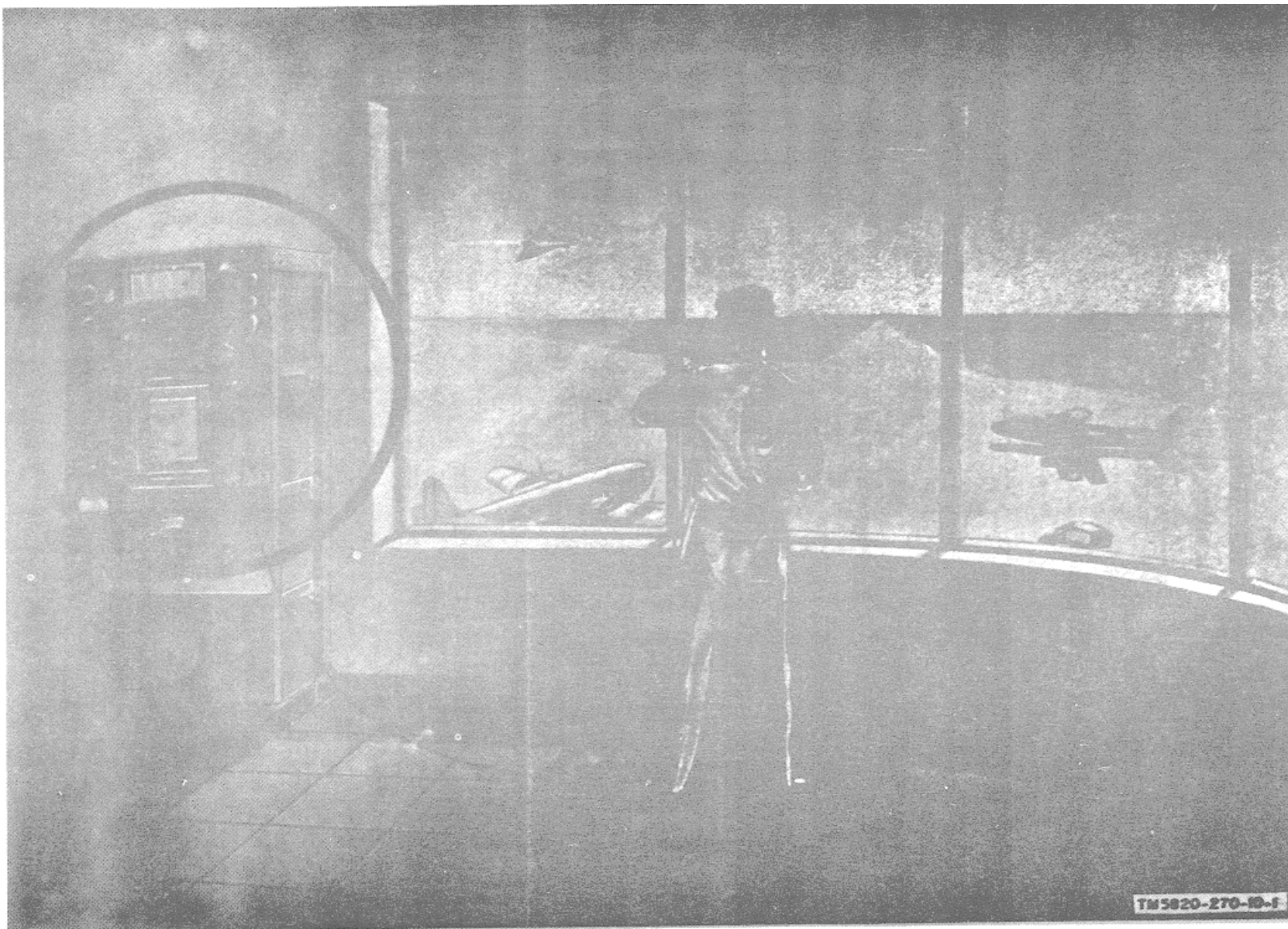


Figure 1-1. Radio Transmitting Set AN/GRT-3 in operation.

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This manual describes Radio Transmitting Set AN GRT-3 and covers its operation and operator's maintenance. It includes operation under usual and emergency conditions, local and remote operation, cleaning and inspection of the equipment, and replacement of parts available to the operator crew.

b. The maintenance allocation chart (MAC) appears in TM 11-5820-270-24.

c. Official nomenclature followed by (*) is used to indicate all models of the equipment item covered in this manual. Thus, Radio Transmitter T-282(*)/GR represents Radio Transmitters T-282/GR, T-282B/GR, T-282C/GR, and T-604A/GR. Modulator-Power Supply MO-141(*)/GR represents Modulator-Power Supplies ME-141/GR and MR-141A/GR.

NOTE

Installation of Radio Transmitting Set AN/GRT-3 involves procedures that call for techniques and operations beyond the capabilities of operator personnel; therefore, installation instructions are not included in this manual but are given in TM 11-5820-207-24.

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 (MWO'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 (Report of Packaging and Handling Deficiencies) as prescribed in AR 700-58 (Army) NAVSUP PUB 378 (Navy)/AFR 71-4 (Air Force)/and MCO P4030.29 (Marine Corps).

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 (Army)/NAVSUP PUB 459 (Navy)/AFM 75-34 (Air Force)/and MCO P4610.19 (Marine Corps).

1-3.1. Reporting of Equipment Publication Improvements

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 forwarded direct to Commander, US Army Electronics Command, ATTN: AMSEL-MA-A, Fort Monmouth, N.J. 07703.

Section II. DESCRIPTION AND DATA

1-4. Purpose and Use

a. *Purpose.* Radio Transmitting Set AN, GRT-3 provides facilities for transmitting amplitude-modulated (am), single-channel, continuous-wave (cw), or modulated-continuous-wave (mcw) signals in the

ultrahigh-frequency (UHF) range from ground to air, or from ground to ground.

b. *Use.* The AN/GRT-3 is normally used as the transmitting equipment of a UHF communications system used in control towers or airway stations. A typical application of the AN GRT-3 used in a UHF communications system is shown in figure 1-2.