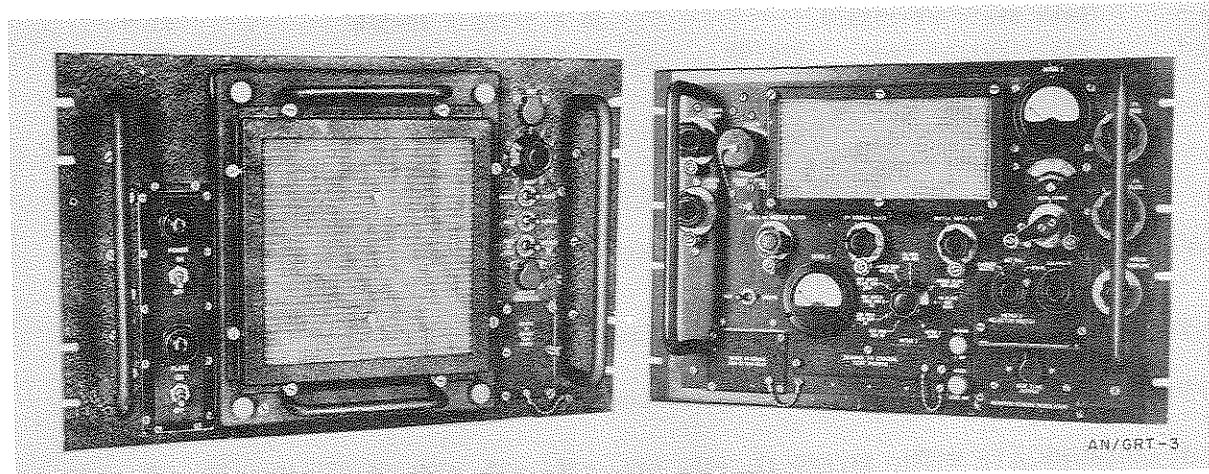


STATUS: Substitute Standard  
CLASSIFICATION OF EQUIPMENT: Restricted  
USING SERVICE: Air Force  
DATE OF THIS SHEET: 9 Jun 52

# AN/GRT-3

RADIO TRANSMITTING SET



Radio Transmitting Set AN/GRT-3 is a ground-fixed station u-h-f voice transmitter for single-channel, ground-to-air, and point-to-point radio communication. It is normally used with Radio Receiving Set AN/GRR-7 to form a two-way communications facility.

This set consists of a radio transmitter and modulator-power supply plus interconnecting cables. A relay rack, desk shelf and distribution panel are used with this equipment but are not supplied.

Operates on preset, crystal-controlled channels in the u-h-f band 225 to 400 mc.

The transmitter output circuit is designed to match a 52-ohm coaxial low-impedance transmission line RG-8/U or equivalent.

Recommended antennas are: Antenna AT-197/GR, Antenna AS-505/GR and Antenna AS-450/GR. On control tower frequencies Antenna AT-197/GR is used. On airway frequencies Antenna AS-505/GR is recommended. No remote control facilities are provided.

<b>AN/GRT-3</b>	INSTRUCTION LITERATURE: Not Available
	CLASSIFICATION OF EQUIPMENT: Restricted
	USING SERVICE : Air Force
RADIO TRANSMITTING SET	DATE OF THIS SHEET : 9 Jun 52

### MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter T-282/GR	19 x 12-1/4 x 21	175.0
1	Modulator-Power Supply MD-141/GR	10 x 12-1/4 x 21	200.0
1 *	Rack MT-686/GR	22-5/8 x 72-1/2 x 21-3/8	96.0
1 *	Desk Shelf MX-1058/U	19 x 3-1/2 x 20-3/8	11.3
1 *	Distribution Panel J-390/GR	19 x 5-1/2 x 3	15.0

\* Required but not supplied.

### OPERATIONAL CHARACTERISTICS

**TACTICAL USE:** Normally issued on any organizational level as project equipment in accordance with AFR 100-17.

**INSTALLATION:** Ground, fixed (Standard relay rack).

**APPROXIMATE RANGE (IN MILES):** (Nominal) Line of sight .

**CAN COMMUNICATE WITH:** AN/ARC-12, -19, -27, -30, -33, -34; AN/GRC-16, -27, -29, -30, -32; AN/GRR-7; AN/MRC-12, -20, -22; AN/PRC-14, -17, -20; AN/TRC-32; AN/URC-4; AN/URR-9, -12, -13; MAR; MAY; R-278/GR; RDR; RDZ; SCR-616.

### TECHNICAL CHARACTERISTICS

**FREQUENCY RANGE IN MEGACYCLES:** (Uhf) 225 - 400, single channel, preset, crystal-controlled.

**TYPE MODULATION:** Am.

**TYPE OF SIGNAL:** Voice.

**POWER OUTPUT:** 100 w (Nominal).

**POWER REQUIREMENTS:** 750 w of 105 - 125 or 210 - 250 v, 60 cyc, 1 phase, ac.

### PHYSICAL CHARACTERISTICS

Radio Transmitting Set AN/GRT-3 measures 22-5/8 x 72-1/2 x 21-3/8 inches, net weight 500 pounds, volume 20.40 cu ft. Packed for either domestic or export shipment: total weight 600 pounds, total volume 22.44 cu ft, 0.51 ship ton. Shipped in 4 packages.