

STATUS: Standard

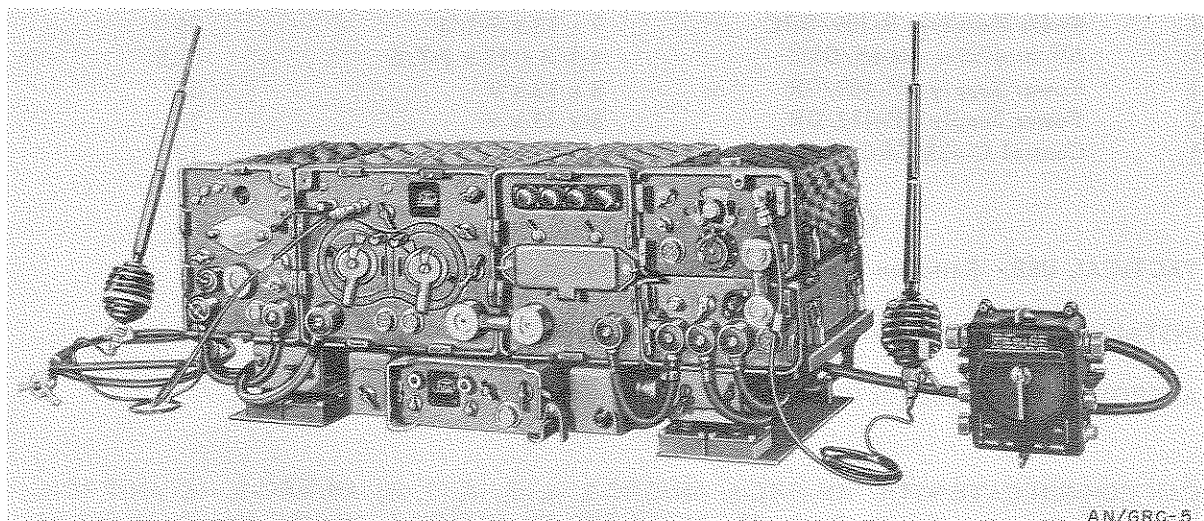
CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army, Navy

DATE OF THIS SHEET: 9 Jan 52

AN/GRC-5

RADIO SET



Radio Set AN/GRC-5 is a short-range, f-m (voice), two-way communication equipment having provision for retransmission, duplex, and remote control operation. It is one of the integrated series of radio equipment used by field artillery units.

This equipment consists of a medium-power radio receiver-transmitter (set 1) operating on frequencies assigned to field artillery and a low-power receiver-transmitter (set 2) operating on frequencies common to artillery, armored, and infantry units for communication and liaison among all three types of organizations. It includes an auxiliary receiver, a vehicular interphone amplifying equipment, and control units for selecting desired modes of operation and service.

Operates in a vehicle from the 12- or 24-v vehicular storage battery. A hand generator and associated components (Modification Kit MX-898/GR) provide for semipermanent field operation of set 1 or set 2 removed from the vehicle.

AN/GRC-5

INSTRUCTION LITERATURE: TM 11-284

CLASSIFICATION OF EQUIPMENT: Unclassified

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RADIO SET

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver-Transmitter RT-67/GRC	9 x 13 x 11-1/4	35
1	Receiver-Transmitter RT-70/GRC	4-3/4 x 13 x 7-1/8	25
1	Radio Receiver R-109/GRC	9 x 13 x 7-1/4	35
1	AF Amplifier AM-65/GRC	4-1/4 x 13 x 7-7/8	15.5
1	Power Supply PP-109/GR or	8 x 13 x 9	35
1	Power Supply PP-112/GR	8 x 13 x 9	35
1	Control C-435/GRC	3-1/2 x 10-1/2 x 8-3/4	12

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Battalion level and higher (armored division and corps).

INSTALLATION: Ground, vehicular.

APPROXIMATE RANGE (IN MILES): Set 1--stationary 15, moving 10.
Set 2-- 2,000 yards.

CAN COMMUNICATE WITH: AN/FRC-6; AN/GRC-3, -4, -5, -6, -7, -8; AN/MRC-5, -16; AN/PRC-6, -8, -9, -10, -16; AN/SRR-13; AN/TRQ-1; AN/URR-10, -12; AN/VRC-2, -3, -5, -7, -8, -9, -10, -13, -14, -15, -16, -17, -18, -20, -21, -22; AN/VRQ-1, -2, -3; AN/VRR-4; BC-787; MAN; MN; R-137/GR; RBK; SCR-293, -294, -298, -300, -508, -509, -510, -528, -607, -608, -609, -610, -619, -628, -678, -808, -828.

TECHNICAL CHARACTERISTICSFREQUENCY RANGE IN MEGACYCLES: Receiver-Transmitter RT-67/GRC (set 1)-- 27.0 — 38.9.
Receiver-Transmitter RT-70/GRC (set 2)-- 47.0 — 58.4
Radio Receiver R-109/GRC (auxiliary)--27.0 — 38.9.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice and 1,600-cyc f-m signals.

POWER OUTPUT:

	Transmitting		Phone	Receiving	Retransmission
	Low	High		Speaker	
Set 1:	1 to 2 w	9 to 16 w	50 mw	1 w	30 mw
Set 2:	.5 w			75 mw	
Aux Rec:			50 mw	1 w	30 mw

POWER REQUIREMENTS: 110 to 280 w (depending upon mode of operation) from 12- or 24-v vehicular storage battery.

PHYSICAL CHARACTERISTICSRadio Set AN/GRC-5 packed for export shipment: total weight 441 pounds, total volume 10.48 cu ft.
Shipped in 4 packages.