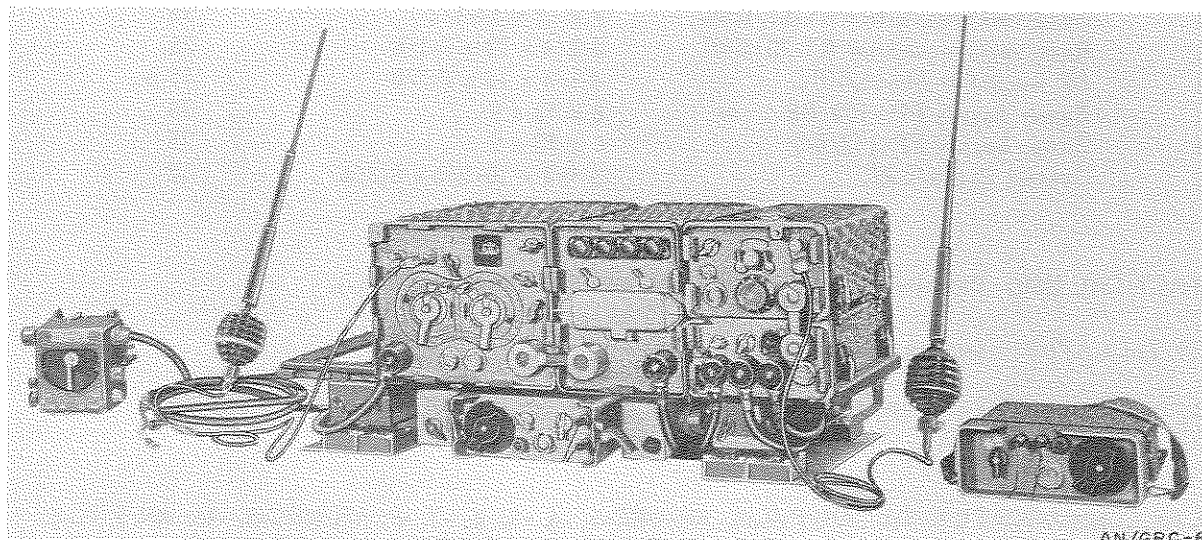


STATUS: Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army, Navy
DATE OF THIS SHEET: 8 Jan 52

AN/GRC-6

RADIO SET



Radio Set AN/GRC-6 is a vehicular, short-range, f-m (voice), two-way radio communication equipment having provision for retransmission, duplex, and remote control operation. It is one of the integrated series of radio equipment and is used by battalion and higher level artillery units.

This equipment consists of a medium-power receiver-transmitter, designated as set 1, and an auxiliary receiver, both of which operate in the frequency range assigned to an artillery unit. In addition, it includes a separate low-power, short-range, receiver-transmitter, designated as set 2, which operates in the frequency band common to armored, artillery, and infantry units. Vehicular interphone amplifier and control units for selecting desired modes of operation and service are included.

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 operation in semipermanent locations.

AN/GRC-6	INSTRUCTION LITERATURE: TM 11-284
	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET	USING SERVICE: Army, Navy
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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	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/YRC-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 CHARACTERISTICS

FREQUENCY 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.

TYPE MODULATION: Fm.

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

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

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

PHYSICAL CHARACTERISTICS

Radio Set AN/GRC-6 packed for export shipment: total weight 441 pounds, total volume 10.48 cu ft. Shipped in 4 packages.