

STATUS: Standard

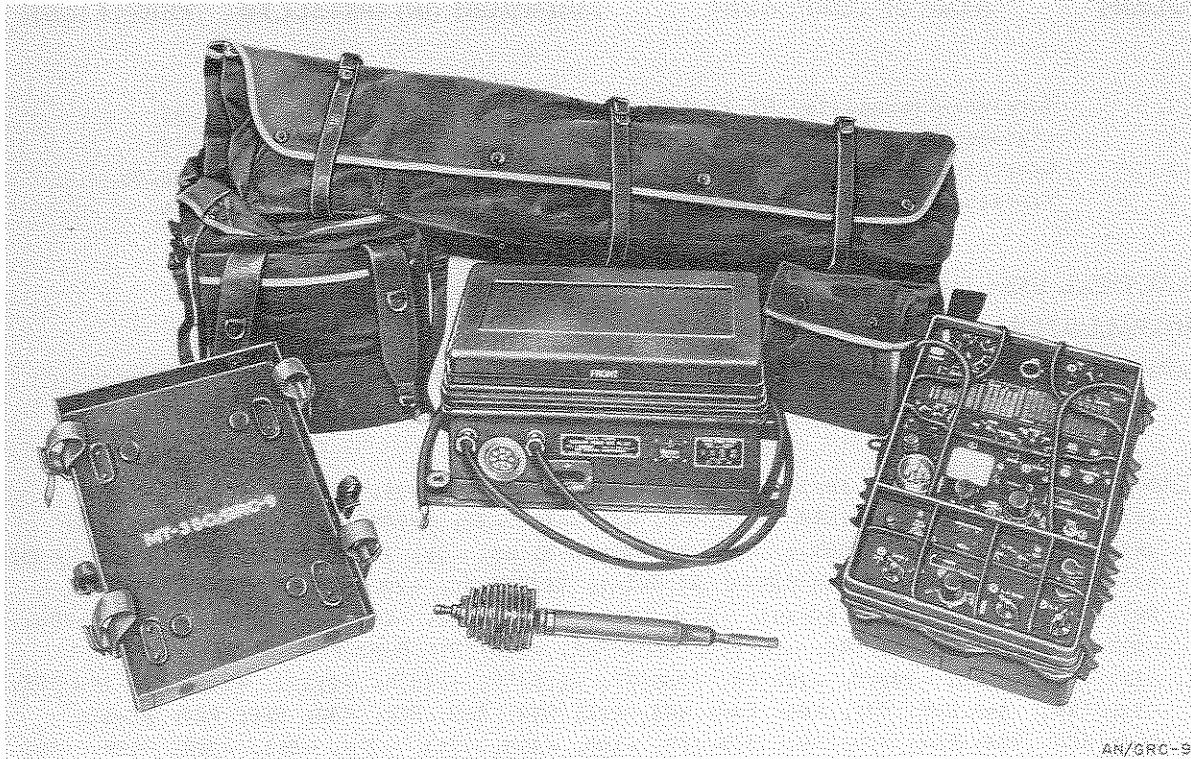
CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army, Navy

DATE OF THIS SHEET: 8 Jan 52

AN/GRC-9

RADIO SET



Radio Set AN/GRC-9 is a light-weight portable or vehicular, 3-band, a.m (voice, tone, cw, and mcw) equipment used by infantry and armored units for communication in the v-h-f band.

This equipment consists of a receiver-transmitter (which can be either crystal- or master-oscillator controlled), a power supply, and related accessories. Uses a vehicular whip-type or long-wire antenna, one or two sets of headphones, or a loudspeaker connected at either of the headphone jacks.

Power is derived from a storage battery through the vibrator power unit or from a hand Generator GN-58.

During stand-by, the receiver uses Battery BA-48, which can be used in conjunction with the hand generator when the transmitter is being operated.

AN/GRC-9	INSTRUCTION LITERATURE: TM 11-263
	CLASSIFICATION OF EQUIPMENT: Unclassified
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver-Transmitter RT-77/GRC-9	16 x 13 x 8	32
1	Loudspeaker LS-7	7 x 4-3/4 x 3	3
1	Generator GN-59	10-1/2 x 7-1/2 x 8	22.75
1	Vibrator Power Supply PE-237	20 x 10-1/2 x 10-3/4	74

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Infantry, armored, and armored-cavalry motorized elements.

INSTALLATION: Ground, field and vehicular.

APPROXIMATE RANGE (IN MILES):

Stationary	Moving
Voice - 15	10
Cw - 30	20
Mcw - 20	10

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/ART-13; AN/CRT-3; AN/FRC-10; AN/FRR-3, -4, -7, -12, -28, -32; AN/FRT-5, -6, -15, -17, -19; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -19, -20; AN/SRR-3, -8, -12, -13; AN/SRT-4; AN/TRQ-1; AN/URR-10, -22, -23; AN/URT-2, -3, -4; AN/VRC-1, -4; AN/VRR-2; BC-191, -312, -339, -342, -348, -401, -447, -610, -779, -794, -1004; MBS; MQ; OA-58/FRC, -59/FRC, -60A/FRT, -60B/FRT; R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/U, -206/PR, -208/FR, -209/FR, -210/U, -211/U, -213/SR, -274/FRR, -320/FRC, -388/URR; RAL; RAO; RAS; RBB; RBC; RBG; RBH; RBM; RBO; RBP; RBS; RC-52; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -188, -193, -244, -274, -281, -399, -499, -506, -536, -543, -585, -593, -607, -694, -704; T-4/FRC, -93/SR, -158/FRT, -159/FRT, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBW; TBX; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCZ; TDE; TDF; TDH; TDM; TDO; TEB; TEC; TEF; AR-88 (RCA); Collins 18S-4 (AF Model); Collins 32V-2, 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; Marconi TH-41-B; National HRO-50; Westinghouse Type MW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 2.0 - 12 in three bands.

Band 1: 6.6 - 12 Band 2: 3.6 - 6.6 Band 3: 2.0 - 3.6.

TYPE MODULATION: Am. **TYPE OF SIGNAL:** Voice, cw, or mcw.

POWER OUTPUT: Transmitter: w/PE-237 - High, phones 7.0 w, cw 15 w. Low, phones 1.0 w, cw 5 w.
w/CN-58 - High, phones 3.6 w, cw 10 w. Low, phones 1.2 w, cw 5 w.

POWER REQUIREMENTS: Vibrator Power Supply PE-237 and 6-, 12-, or 24-v vehicular storage battery or Generator GN-58 or Power Unit PE-162. Battery BA-48 (stand-by operation receiver only).

PHYSICAL CHARACTERISTICS

Radio Set AN/GRC-9 packed for export shipment: total weight 359 pounds, total volume 15.9 cu ft. Shipped in 3 packages.