

STATUS: Standard

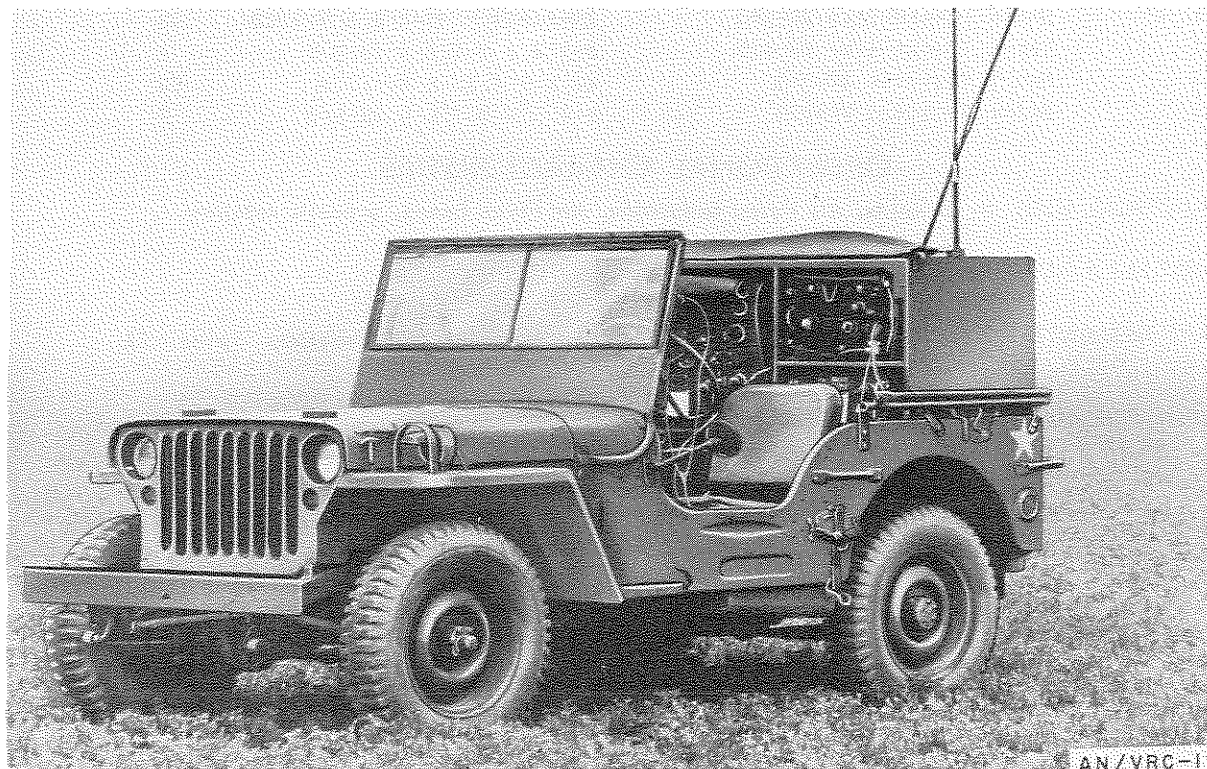
CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

DATE OF THIS SHEET: 11 Jan 52

AN/VRC-1

RADIO SET



Radio Set AN/VRC-1 is a short range, h-f and v-h-f, a-m (voice, tone, and cw) radio transmitting and receiving equipment which may be installed in vehicles for ground-to-air communication at Air Force bases and similar installations.

This equipment consists essentially of a ground communication transmitter and receiver, plus transmitting and receiving equipment designed for airborne use. It is usually used for communication in ground point-to-point nets but can be used as a beacon for compass-equipped aircraft and for h-f ground-air radio communication. Antenna and accessory equipment is included. It is powered by the 12-v storage battery of the vehicle in which it is installed.

AN/VRC-1	INSTRUCTION LITERATURE: TM 11-271
	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET	USING SERVICE: Army
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter BC-191	21-21/32 x 23-1/8 x 9-5/16	68
1	Radio Transmitter BC-625	8-3/4 x 5-7/8 x 15-3/8	7
1	Radio Receiver BC-312	10 x 9-1/16 x 18-1/16	58
1	Radio Receiver BC-624	8-3/4 x 5-7/8 x 15-3/8	7

OPERATIONAL CHARACTERISTICS

TACTICAL USE: At airfields, Air Force squadrons, Air Force bases, schools, infantry.

INSTALLATION: Ground, mobile.

APPROXIMATE RANGE (IN MILES): V-h-f section: Line of sight. H-f section: Voice - 20,
Tone - 40, Cw - 60 (approximate).

CAN COMMUNICATE WITH: AN/ARC-1, -2, -3, -5, -8, -18, -21, -25, -26, -36; AN/ARR-15;
AN/ART-13; AN/CRC-2; AN/CRT-3; AN/FRC-7, -10; AN/FRR-3, -4, -12, -28, -32; AN/FRT-5,
-6, -15, -17, -18; AN/GRC-9, -13, -26, -30; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20,
-22; AN/PRC-7, -17, -19, -20; AN/SRR-3, -8, -12, -13; AN/SRT-4; AN/TRC-7; AN/TRQ-1;
AN/URC-4; AN/URR-10, -12, -21, -22, -23; AN/URT-2, -3, -4, -7, -10; AN/VRC-1, -4;
BC-191, -312, -339, -342, -348, -401, -447, -610, -639, -640, -779, -794, -1004; MAW;
MBS; MQ; OA-58/FRC, -59/FRC, -60A/FRT, -60B/FRT; R-62/PR, -80/PR, -96/SR, -129/U,
-137/GR; -203/SR, -205/U, -206/PR, -208/FR, -209/FR, -210/U, -211/U, -213/SR, -274/FRR,
-320/FRC, -398/URR; RAL; RAO; RAS; RBB; RBC; RBG; RBH; RBK; RBM; RBO; RBP; RBQ; RBS;
RC-52, -103, -256, -257; RCF; RCG; RCH; RCK; RCO; RDE; RDM; REA; SCR-177, -188, -193,
-244, -274, -281, -399, -499, -506, -522, -536, -542, -543, -573, -574, -575, -585,
-593, -607, -616, -624, -641, -643, -644, -694, -704; T-4/FRC, -83/SR, -158/FRT,
-159/FRT, -171/FR, -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; TCO; TCP; TCS; TCZ; TDE; TDF;
TDG; TDH; TDN; TDO; TDQ; TDT; TEB; TEC; TEF; AR-88 (RCA); ARC Type 12; 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: Transmitters: BC-191 - 3 - 6.2, BC-625 - 100 - 156.
Receivers: BC-312 - 1.5 - 18, BC-624 - 100 - 156.

TYPE MODULATION: Am.

TYPE OF SIGNAL: H-f section: Cw, tone, and voice. V-h-f section: Voice.

POWER OUTPUT: H-f section: 40.75 w. V-h-f section: 8 - 9 w.

POWER REQUIREMENTS: (65.7 amps) from 12 v vehicular storage battery (through dynamotors).

PHYSICAL CHARACTERISTICS

Information on Radio Set AN/VRC-1 not available.