

STATUS: Standard

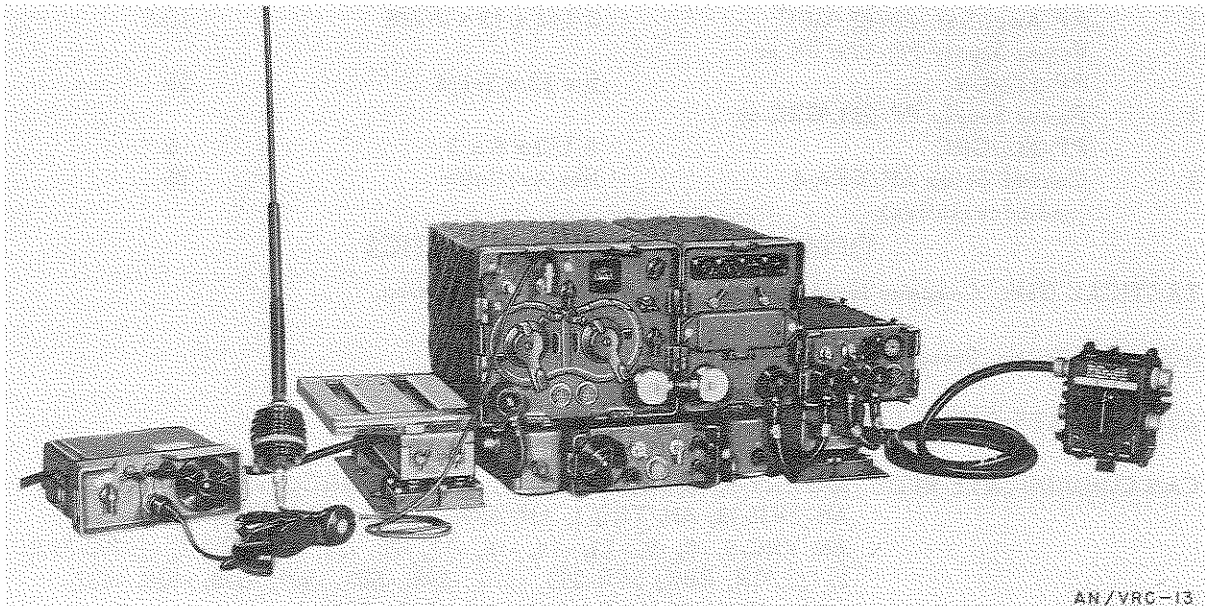
CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

DATE OF THIS SHEET: 8 Jan 52

AN/VRC-13

RADIO SET



Radio Set AN/VRC-13 is a short-range, vehicular, f-m (voice) equipment for communication within and between armored units and for liaison between armored force and artillery units.

This set consists of the receiver-transmitter component designated as set 1 when used as part of radio sets of the integrated series such as Radio Sets AN/GRC-3 and AN/GRC-4. Vehicular installation unit, power supply equipment, interphone amplifier, antenna, and accessory components are included.

This equipment can be operated by means of Control Group AN/GRA-6 from a remote point up to a distance of about 2 miles over a telephone pair.

AN/VRC-13	INSTRUCTION LITERATURE: TM 11-291
	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET	USING SERVICE: Army
	DATE OF THIS SHEET: 8 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver-Transmitter RT-66/GRC	9 x 13 x 11-1/4	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 PP-112/GR	9 x 13 x 7-1/4	35
1	Power Supply PP-281/GRC or PP-282/GRC	4-1/2 x 6 x 3	6
1	Control Group AN/GRA-6 (and accessories)	Not Available	96

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Company level units organic to an armored division.

INSTALLATION: Ground, vehicular, moving or at the halt.

APPROXIMATE RANGE (IN MILES): 10 - 15.

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

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 20.0-27.9 (80 detented channels, two preselected channels, or continuous manual tuning).

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: Transmitting, 16 w on high power, 2 w on low power.
Receiving, 1 w at loudspeaker, 50 mw at headphone terminals.
Interphone, 350 mw.

POWER REQUIREMENTS: From vehicular storage battery:		<u>12 v</u>	<u>24 v</u>
	Transmitting:	11.9	7.3 amp
	Stand-by:	2.3	1.5 amp
	Interphone: (transmitting)	3.2	1.8 amp
	(stand-by)	2.6	1.4 amp.

PHYSICAL CHARACTERISTICS

Radio Set AN/VRC-13 weighs 185 pounds net. Packed for export shipment: total weight 337 pounds, total volume 8.59 cu ft. Shipped in 3 packages.