

STATUS: Standard

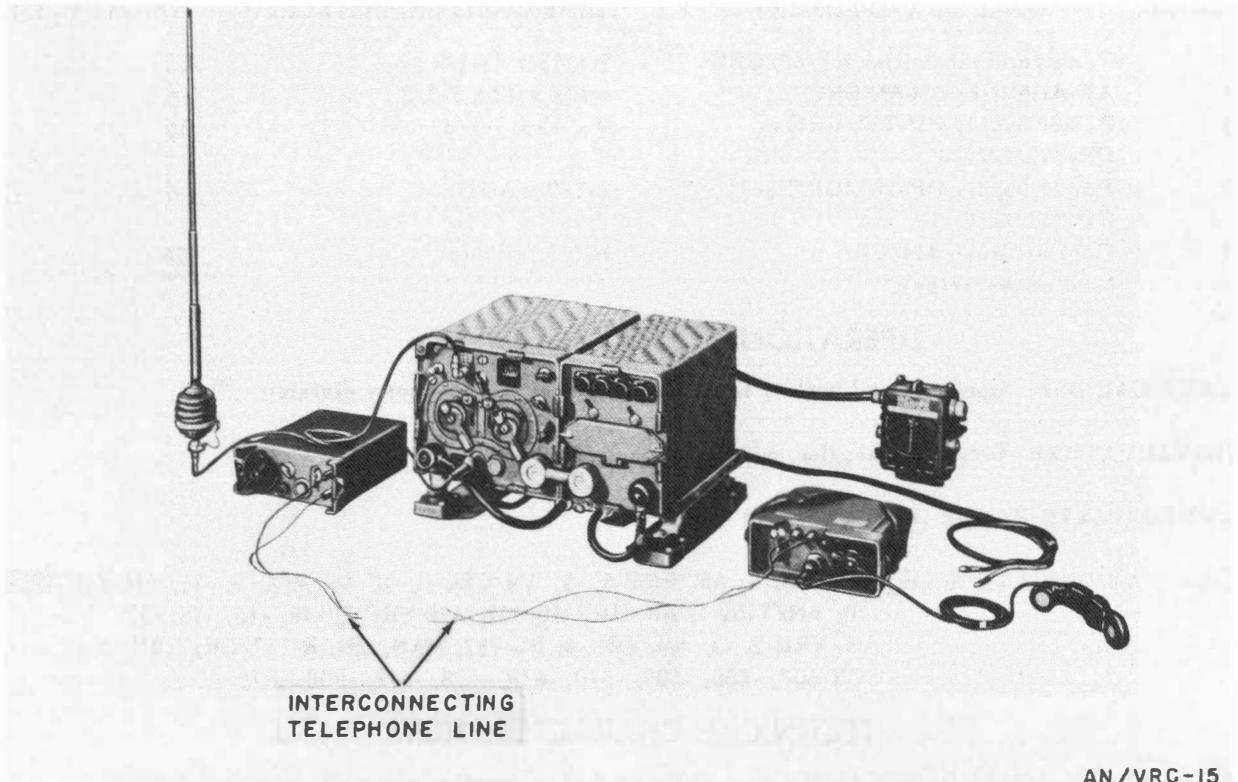
CLASSIFICATION OF EQUIPMENT:Unclassified

USING SERVICE: Army

DATE OF THIS SHEET:8 Jan 52

AN/VRC-15

RADIO SET



AN/VRC-15

Radio Set AN/VRC-15 is a short-range, vehicular, f-m (voice) equipment for communication within and between infantry units and for liaison between infantry 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-7 and AN/GRC-8, plus power supply and control and accessory items. Vehicular installation unit and interphone amplifier are included.

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

AN/VRC-15	INSTRUCTION LITERATURE: TM 11-291
	CLASSIFICATION OF EQUIPMENT: Unclassified USING SERVICE : Army DATE OF THIS SHEET : 8 Jan 52
RADIO SET	

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver-Transmitter RT-68/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/GRC or PP-112/GRC	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 and battery level units organic to an infantry division.

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

APPROXIMATE RANGE (IN MILES): 10 - 15.

CAN COMMUNICATE WITH: AN/CRC-3; AN/FRC-6, -9; AN/GRC-7, -8; AN/MRC-5, -16; AN/PRC-9, -10; AN/TRQ-1; AN/URR-10, -12; AN/VRC-2, -10, -15, -18, -22; AN/VRQ-2, -3; AN/VRR-4; BC-787; MAN; MN; R-137/GR; RBK; SCR-607, -608, -609, -610, -619, -628, -678, -808, -828.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 38.0 - 54.9 (170 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.

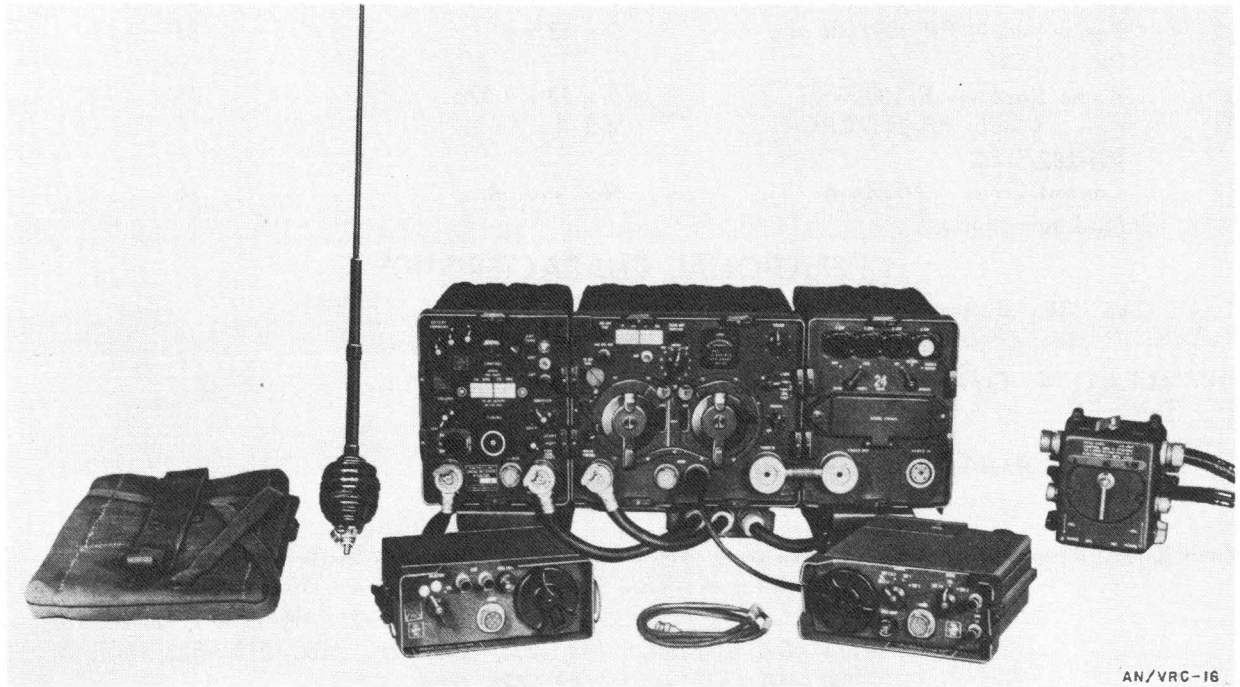
PHYSICAL CHARACTERISTICS

Radio Set AN/VRC-15 weighs 185 pounds net. Packed for export shipment: total weight 337 pounds, total volume 8.59 cu ft. Shipped in 3 packages.

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

AN/VRC-16

RADIO SET



Radio Set AN/VRC-16 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, plus the auxiliary receiver component of these sets. Vehicular installation unit, power supply equipment, antenna, and control 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.

<h1>AN/VRC-16</h1>	INSTRUCTION LITERATURE: TM 11-611
	CLASSIFICATION OF EQUIPMENT:Unclassified USING SERVICE : Army
RADIO SET	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	Power Supply PP-109/GR or PP-112/GR	9 x 13 x 8	33
1	Radio Receiver R-108/GRC	9 x 13 x 7-1/4	35
1	Power Supply PP-281/GRC or PP-282/GRC	4-1/4 x 6 x 3	6
1	Control Group AN/GRA-6 (and accessories)	Not Available	96

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Battery 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

Receiver-Transmitter RT-66/GRC: 80 detented channels, two preselected channels, or continuous manual tuning.

Radio Receiver R-108/GRC: three 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.

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
Auxiliary receiver:	2.5	1.5 amp.

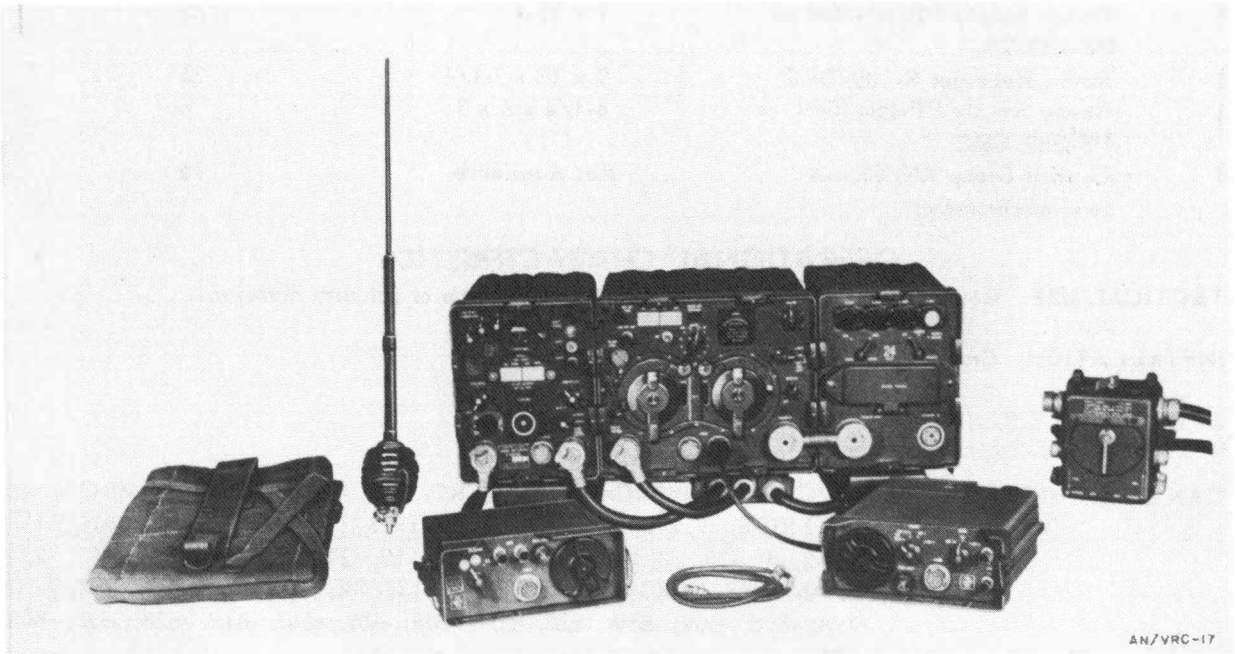
PHYSICAL CHARACTERISTICS

Radio Set AN/VRC-16 weighs 180 pounds net. Packed for export shipment: total weight 306 pounds, total volume 6.6 cu ft. Shipped in 3 packages.

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

AN/VRC-17

RADIO SET



Radio Set AN/VRC-17 is a short-range, vehicular, f-m (voice) equipment for communication within and between artillery units and for liaison between artillery, infantry, and armored 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-5 and AN/GRC-6, plus the auxiliary receiver component of these sets. Vehicular installation unit, power supply equipment, antenna, and control 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-17

INSTRUCTION LITERATURE: TM 11-611

CLASSIFICATION OF EQUIPMENT:Unclassified

USING SERVICE: Army

DATE OF THIS SHEET: 8 Jan 52

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	Power Supply PP-109/GR or PP-112/GR	9 x 13 x 8	33
1	Radio Receiver R-109/GRC	9 x 13 x 7-1/4	35
1	Power Supply PP-281/GRC or PP-282/GRC	4-1/4 x 6 x 3	6
1	Control Group AN/GRA-6 (and accessories)	Not Available	96

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Battery level artillery units organic to airborne or infantry divisions.

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

APPROXIMATE RANGE (IN MILES): 10-15.

CAN COMMUNICATE WITH: AN/CRC-3; AN/FRC-6, -9; AN/GRC-3, -4, -5, -6, -7, -8; AN/MRC-5, -16; AN/PRC-8, -9, -10; AN/SRR-13; AN/TRQ-1; AN/URR-10, -12; AN/VRC-2, -5, -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, -508, -509, -510, -528, -607, -608, -609, -610, -619, -628, -678, -808, -828.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 27.0 - 38.9.

Receiver-Transmitter RT-67/GRC: 120 detented channels, two preselected channels or continuous manual tuning.

Radio Receiver R-109/GRC: three 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.

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
Auxiliary receiver:	2.5	1.5 amp.

PHYSICAL CHARACTERISTICS

Radio Set AN/VRC-17 weighs 180 pounds net. Packed for export shipment: total weight 306 pounds, total volume 6.6 cu ft. Shipped in 3 packages.

STATUS: Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army
DATE OF THIS SHEET: 11 Jan 52

AN/VRC-18

RADIO SET



Radio Set AN/VRC-18 is a short-range, vehicular, f-m (voice) transmitting and receiving equipment used for communication within and between infantry units and for liaison between infantry and artillery units.

This equipment 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-7 and AN/GRC-8, plus the auxiliary receiver component of these sets. Vehicular installation unit, power supply equipment, antenna, and control 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.

<h1>AN/VRC-18</h1>	INSTRUCTION LITERATURE: TM 11-611
	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET	USING SERVICE : Army
	DATE OF THIS SHEET : 11 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver-Transmitter RT-68/GRC	9 x 13 x 11-1/4	35
1	Power Supply PP-109/GR or PP-112/GR	9 x 13 x 8	33
1	Radio Receiver R-110/GRC	9 x 13 x 7-1/4	35
1	Power Supply PP-281/GRC or PP-282/GRC	4-1/4 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 infantry division.

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

APPROXIMATE RANGE (IN MILES): 10 - 15.

CAN COMMUNICATE WITH: AN/CRC-3; AN/FRC-6, -9; AN/GRC-7, -8; AN/MRC-5 -16; AN/PRC-9, -10; AN/TRQ-1; AN/URR-10, -12; AN/VRC-2, -10, -15, -18, -22; AN/VRQ-2, -3; AN/VRR-4; BC-787; MAN; MN; R-137/GR; RBK; SCR-607, -608, -609, -610, -619, -628, -678. -808, -828.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 38.0 - 54.9.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

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

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
Auxiliary receiver:	2.5	1.5 amp.

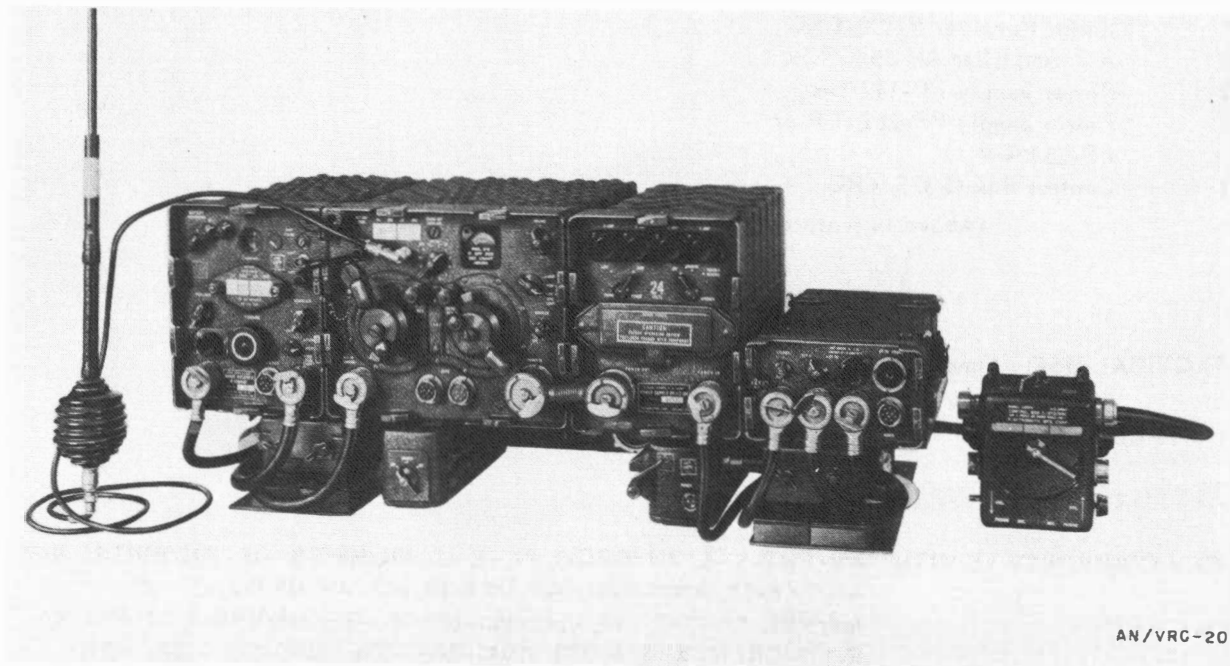
PHYSICAL CHARACTERISTICS

Radio Set AN/VRC-18 weighs 180 pounds net. Packed for export shipment: total weight 306 pounds, total volume 6.6 cu ft. Shipped in 3 packages.

STATUS: Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army
DATE OF THIS SHEET: 24 Mar 52

AN/VRC - 20

RADIO SET



AN/VRC-20

Radio Set AN/VRC-20 is a vehicular, short-range, f-m (voice), radiotelephone equipment for communication within and between armored units and for liaison between armored and artillery units.

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

AN/VRC-20	INSTRUCTION LITERATURE: TM 11-642
	CLASSIFICATION OF EQUIPMENT: Unclassified
	USING SERVICE: Army
RADIO SET	DATE OF THIS SHEET: 24 Mar 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver-Transmitter RT-66/GRC	Not Available	Not Available
1	Radio Receiver R-108/GRC	" "	" "
1	A-F Amplifier AM-65/GRC	" "	" "
1	Power Supply PP-112/GR	" "	" "
2	Power Supply PP-282/GR or PP-281/GR	" "	" "
1	Control Box C-375/VRC	" "	" "

(Above is tentative, nomenclature not yet definitely assigned).

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Armored and artillery units.

INSTALLATION: Vehicular.

APPROXIMATE RANGE (IN MILES): Short.

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.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 9 - 16 w.

POWER REQUIREMENTS: 12-v or 24-v storage battery.

PHYSICAL CHARACTERISTICS

Information on Radio Set AN/VRC-20 not available.

STATUS: Standard

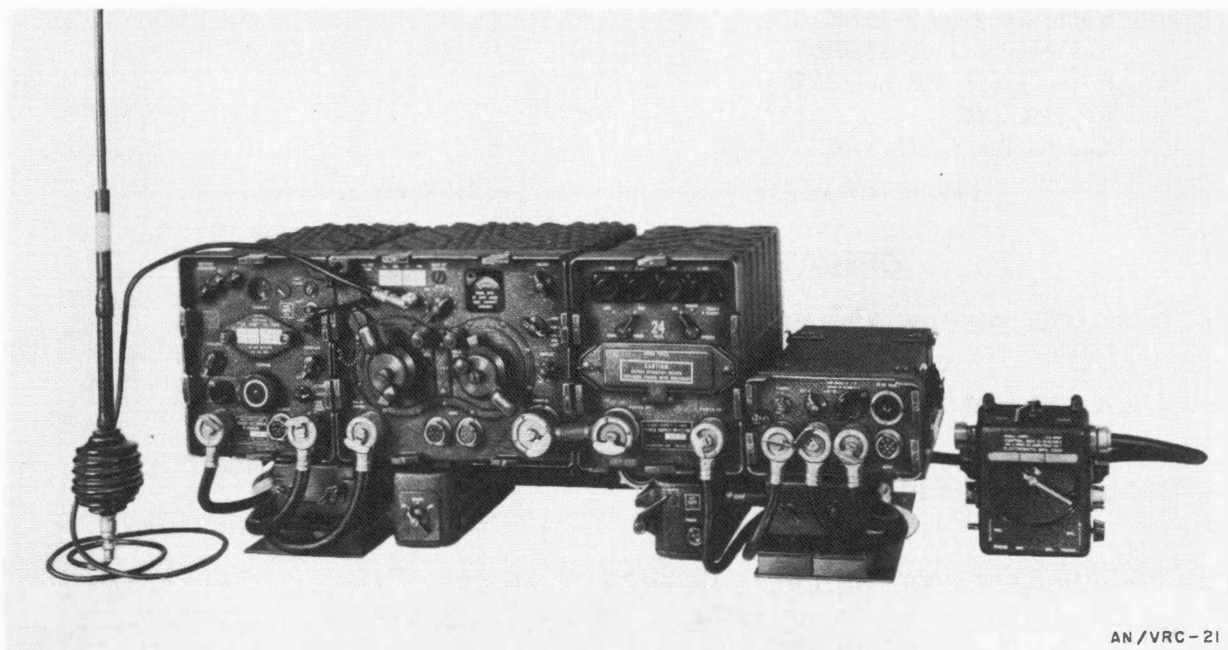
CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

DATE OF THIS SHEET: 24 Mar 52

AN/VRC-21

RADIO SET



Radio Set AN/VRC-21 is a vehicular, short-range, f-m (voice), radiotelephone equipment for communication within and between artillery units and for liaison between artillery, infantry, and armored units.

This equipment consists of the receiver-transmitter component designated as set 1 when used as part of such radio sets of the integrated series as Radio Sets AN/GRC-5 and AN/GRC-6, plus the auxiliary receiver component of these sets. Vehicular installation unit, power supply equipment, antenna, and control components are included.

AN/VRC - 21

INSTRUCTION LITERATURE: TM 11-642

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE : Army

DATE OF THIS SHEET : 24 Mar 52

RADIO SET

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver-Transmitter RT-67/GRC	Not Available	Not Available
1	Radio Receiver R-109/GRC	" "	" "
1	A-F Amplifier AM-65/GRC	" "	" "
2	Power Supply PP-281/GRC or PP-282/GRC	" "	" "
1	Control Box C-375/VRC	" "	" "

(Above is tentative, nomenclature not yet definitely assigned).

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Artillery, infantry, and armored units.

INSTALLATION: Vehicular

APPROXIMATE RANGE (IN MILES): Short.

CAN COMMUNICATE WITH: AN/CRC-3; AN/FRC-6, -9; AN/GRC-3, -4, -5, -6, -7, -8; AN/MRC-5, -16; AN/PRC-8, -9, -10; AN/SRR-13; AN/TRQ-1; AN/URR-10, -12; AN/YRC-2, -5, -8, -9, -10, -13, -14, -15, -16, -17, -18, -20, -21, -22; AN/YRQ-1, -2, -3; AN/YRR-4; BC-787; MAN; MN; 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: 27.0 - 38.9.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 9 - 16 w.

POWER REQUIREMENTS: 12-v or 24-v storage battery .

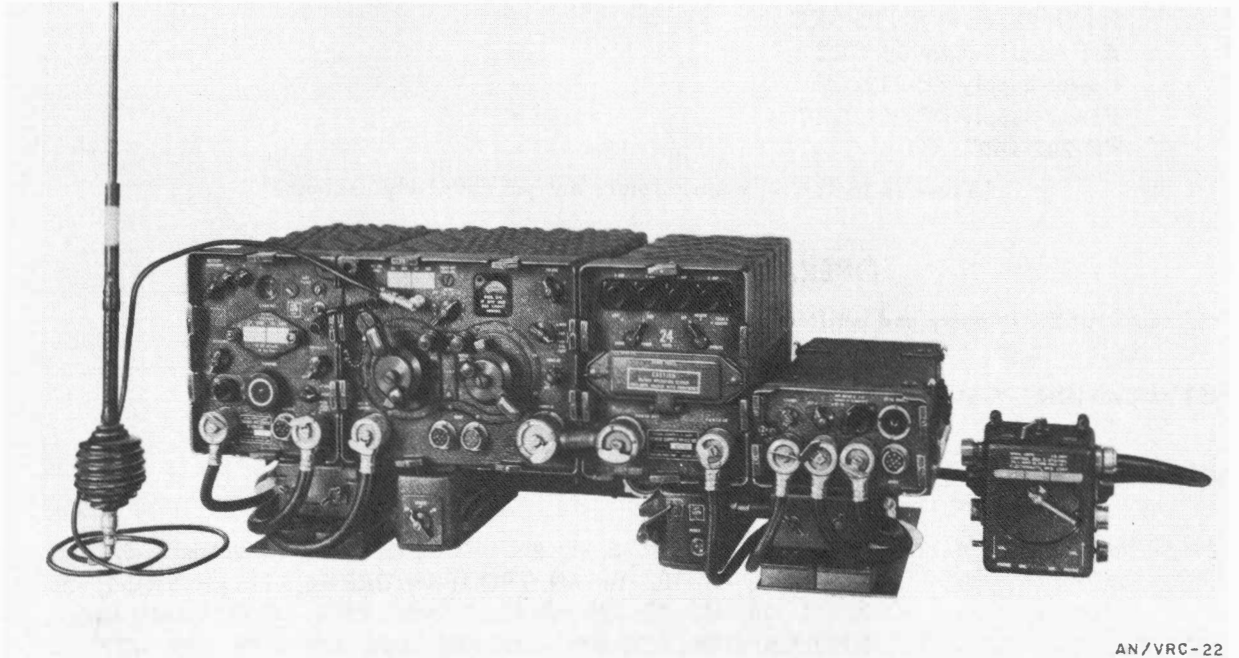
PHYSICAL CHARACTERISTICS

Information on Radio Set AN/VRC-21 not available.

STATUS: Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army
DATE OF THIS SHEET: 24 Mar 52

AN/VRC-22

RADIO SET



AN/VRC-22

Radio Set AN/VRC-22 is a vehicular, short-range, f-m (voice) radiotelephone equipment for communication within and between infantry units and for liaison between infantry and artillery units.

This equipment consists of the receiver-transmitter component designated as set 1 when used as part of such radio sets of the integrated series as Radio Sets AN/GRC-7 and AN/GRC-8, plus the auxiliary receiver component of these sets. Vehicular installation unit, interphone amplifier, power supply equipment, and antenna and accessory components are included.

AN/VRC-22	INSTRUCTION LITERATURE: TM 11-642
	CLASSIFICATION OF EQUIPMENT: Unclassified
	USING SERVICE: Army
RADIO SET	DATE OF THIS SHEET: 24 Mar 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver-Transmitter RT-68/GRC	Not Available	Not Available
1	Radio Receiver R-110/GRC	" "	" "
1	A-F Amplifier AM-65/GRC	" "	" "
1	Power Supply PP-112/GR	" "	" "
2	Power Supply PP-281/GRC or PP-282/GRC	" "	" "

(Above is tentative, nomenclature not yet definitely assigned).

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Infantry and artillery units.

INSTALLATION: Vehicular.

APPROXIMATE RANGE (IN MILES): Short.

CAN COMMUNICATE WITH: AN/CRC-3; AN/FRC-6, -9; AN/GRC-4, -5, -6, -7, -8; AN/MRC-5, -6; AN/PRC-6, -9, -10, -16; AN/TRQ-1; AN/URR-10, -12; AN/VRC-2, -3, -7, -10, -15, -18, -22; AN/VRQ-2, -3; AN/VRR-4; BC-787; MAN; MN; R-137/GR; RBK; SCR-300, -607, -608, -609, -610, -619, -628, -678, -808, -828.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 38.0 - 57.9

Receiver-Transmitter RT-68/GRC: 170 detented channels, two preselected channels, or continuous manual tuning.

Radio Receiver R-110/GRC: three preselected channels or continuous manual tuning.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 9 - 16 w.

POWER REQUIREMENTS: 12-v or 24-v storage battery.

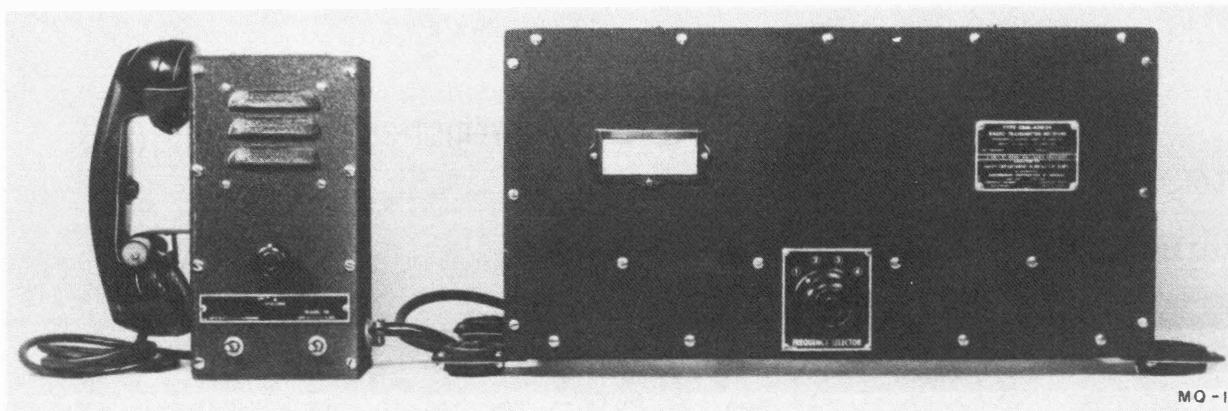
PHYSICAL CHARACTERISTICS

Information on Radio Set AN/VRC-22 not available.

STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 29 Apr 52

AN/VRC-TYPE

SERVICE TYPE NUMBER: MQ-1
RADIOTELEPHONE EQUIPMENT



Radiotelephone Equipment MQ-1 is a general purpose, compact, low-power, m-f transmitter-receiver designed for two-way mobile radiotelephone communication.

Four preset crystal-controlled channels are provided in this transmitter-receiver, which are selected by a single control on the front panel.

Any simple single-wire antenna may be used with the MQ-1.

It has two self-contained, self-rectifying power supplies.

Remote control is provided, but does not include channel selection.

AN/VRC-TYPE		INSTRUCTION LITERATURE: NavShips 95144
		CLASSIFICATION OF EQUIPMENT:Unclassified
MQ-1	:SERVICE TYPE NUMBER	USING SERVICE : Navy
RADIOTELEPHONE EQUIPMENT		DATE OF THIS SHEET : 29 Apr 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Transmitter-Receiver CRM-43023 (6 v dc) or CRM-43024 (12 v dc)	10-3/8 x 23-5/8 x 13-7/8	40
1	Remote Control Unit CRM-23327	10-5/8 x 9-1/2 x 4	7

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Vehicular mobile communications.

INSTALLATION: Ground, vehicular.

APPROXIMATE RANGE (IN MILES): Medium.

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, -18; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7; 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, -343, -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, -9/FR, -210/U, -211/U, -213/SR, -274/FRR, -320/FRC, -338/URR; RAL; RAO; RAS; RBB; RBG; RBH; RBM; RBO; RBP; RBS; RC-52; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -199, -193, -244, -274, -281, -399, -499, -506, -536, -543, -585, -593, -607, -694, -704; T-4/FRC, -93/SR, -153/FRT, -159/FRT, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBX; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCZ; TDE; IDF; TDH; TDN; TDO; TEB; TEC; TEF; AR-98 (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 - 3.5.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: Transmitter: 5 w.
Receiver: 50 mw.

POWER REQUIREMENTS: 113 w, 6.3 v, dc; 151 w, 12.6 v, dc.

PHYSICAL CHARACTERISTICS

Radiotelephone Equipment MQ-1 measures 10-3/8 x 23-5/8 x 13-7/8 inches, net weight 75 pounds.

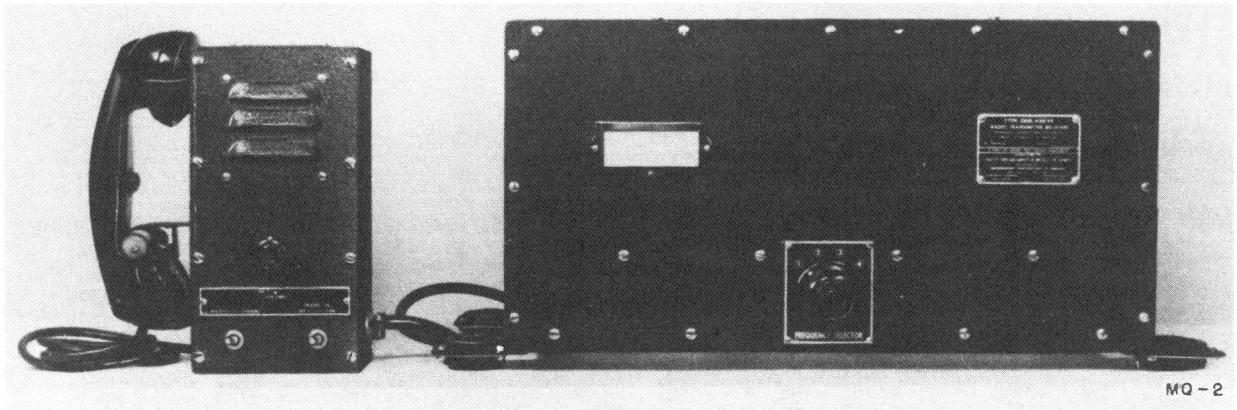
STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 29 Apr 52

AN/VRC-TYPE

SERVICE TYPE NUMBER:

MQ-2

RADIOTELEPHONE EQUIPMENT



Radiotelephone Equipment MQ-2 is a general purpose, compact, low-power, m-f transmitter-receiver designed for two-way mobile radiotelephone communication.

Four preset crystal-controlled channels are provided in this transmitter-receiver, which are selected by a single control on the front panel.

Any single-wire antenna may be used with the MQ-2.

AN/VRC-TYPE	INSTRUCTION LITERATURE: NavShips 95145
	CLASSIFICATION OF EQUIPMENT: Unclassified
MQ-2	USING SERVICE : Navy
:SERVICE TYPE NUMBER	DATE OF THIS SHEET : 29 Apr 52
RADIOTELEPHONE EQUIPMENT	

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter-Receiver Unit CRM-43046	12-1/8 x 23-5/8 x 19-1/8	71

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Vehicular mobile communications.

INSTALLATION: Ground, vehicular.

APPROXIMATE RANGE (IN MILES): Medium.

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, -18; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7; 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, -209/FR, -209/FR, -210/U, -211/U, -213/SR, -274/FRR, -320/FRC, -389/URR; RAL; RAD; RAS; RBB; RBG; RBH; RBM; RBO; RBP; RBS; RC-52; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -199, -193, -244, -274, -281, -399, -499, -506, -536, -543, -585, -593, -607, -694, -704; T-4/FRC, -93/SR, -159/FRT, -159/FRT, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -190/FR; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBX; TCB; TCC; TCE; TCH; TCX; TCP; TCS; TCZ; TDE; TDF; TDH; TDN; TDO; TEB; TEC; TEF; AR-89 (RCA); Collins 19S-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 - 3.5.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: Transmitter: 5 w.
Receiver: 50 mw.

POWER REQUIREMENTS: 189 w, 6 v dc; 161 w, 115 v, 50/60 cyc, 1 phase, ac.

PHYSICAL CHARACTERISTICS

Radiotelephone Equipment MQ-2 measures 12-1/8 x 23-5/8 x 18-1/8 inches, net weight 99 pounds.

STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army
DATE OF THIS SHEET: 22 Jan 52

AN/VRC-TYPE

SERVICE TYPE NUMBER:

SCR-193

RADIO SET



Radio Set SCR-193 is a medium-frequency a-m (voice and cw) field radio station used in command vehicles, by units at company, battalion, and division level.

This equipment consists essentially of general purpose Radio Transmitter BC-191 (with appropriate tuning units for frequency channels in which the set is operated), general purpose Radio Receiver BC-312, accessory items, and antenna components. The set is available in several models, each identified by model-letters indicating special application or design for the vehicle in which it is installed.

Radio Set SCR-193 is a vehicular application of primary operating components of Radio Sets SCR-177 and SCR-188.

Operates from vehicular storage battery and uses a whip-type antenna.

AN/VRC-TYPE		INSTRUCTION LITERATURE: TM 11-273
		CLASSIFICATION OF EQUIPMENT: Unclassified
SCR-193	:SERVICE TYPE NUMBER	USING SERVICE : Army
RADIO SET		DATE OF THIS SHEET : 22 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter BC-191	21 x 23-1/8 x 9-1/2	55.75
3	Tuning Units (each)	7-3/4 x 16-3/4 x 8-3/4	46.5
1	Radio Receiver BC-312	18-3/4 x 18 x 9	58.0
1	Dynamotor Unit BD-77	11 x 11 x 7-1/2	37.3

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Engineer company, field artillery battalion, infantry division.

INSTALLATION: Ground, vehicular.

APPROXIMATE RANGE (IN MILES): 100.

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, -18; 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, -314, -339, -342, -344, -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, -83/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; TCO; TCP; TCS; TCZ; TDE; TDF; TDH; TDN; 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: Transmitting: 1.5 - 6.2.
Receiving : 1.5 - 18.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice and cw.

POWER OUTPUT: 75 w.

POWER REQUIREMENTS: Vehicular storage battery through BD-77.

PHYSICAL CHARACTERISTICS

Radio Set SCR-193 weighs 648 pounds net, volume 20 cu ft, 0.5 ship ton.

STATUS: Limited Standard
 CLASSIFICATION OF EQUIPMENT:Unclassified
 USING SERVICE: Army
 DATE OF THIS SHEET: 30 Jan 52

AN/VRC-TYPE	
SERVICE TYPE NUMBER:	SCR-293
RADIO SET	



Radio Set SCR-293 is a vehicular short-range, medium-power, f-m (voice) equipment used in inclosed vehicles for two-way voice communication within and between armored units or between armored and infantry units.

This set consists of a receiver-transmitter plus an additional receiver (not shown in the illustration) mounted on a common shock mount and is powered by the storage battery of the vehicle in which it is installed. Radio Set SCR-293 is the 12-volt version, while the SCR-293-B is the 24- to 28-volt model of this equipment.

The additional receiver component Radio Receiver BC-499 mounted alone on the shock mount constitutes Radio Set SCR-294 (12 v) or SCR-294-B (24 v).

AN/VRC-TYPE		INSTRUCTION LITERATURE: None
SCR-293	:SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET		USING SERVICE : Army
		DATE OF THIS SHEET : 30 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver and Transmitter BC-500)		
1	Radio Receiver BC-499)	Mounted: 12 x 14-1/2 x 34	115
1	Mounting FT-239)		
1	Antenna AN-42-A)		

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Armored vehicles and command vehicles, infantry and armored divisions.

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

APPROXIMATE RANGE (IN MILES) : 7 mi stationary, 15 mi maximum.

CAN COMMUNICATE WITH: AN/FRT-5, -6; AN/GRC-3, -4, -5 -6; AN/MRC-5, -16; AN/PRC-8, -9; AN/SRR-13; 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 - 28; channels spaced 0.1mc apart; five preset channels.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice only.

POWER OUTPUT: High: 25 w.
Low: 0.5 w.

POWER REQUIREMENTS: 12- or 24-v vehicular storage battery (depending upon model).

PHYSICAL CHARACTERISTICS

Information on Radio Set SCR-293 not available.

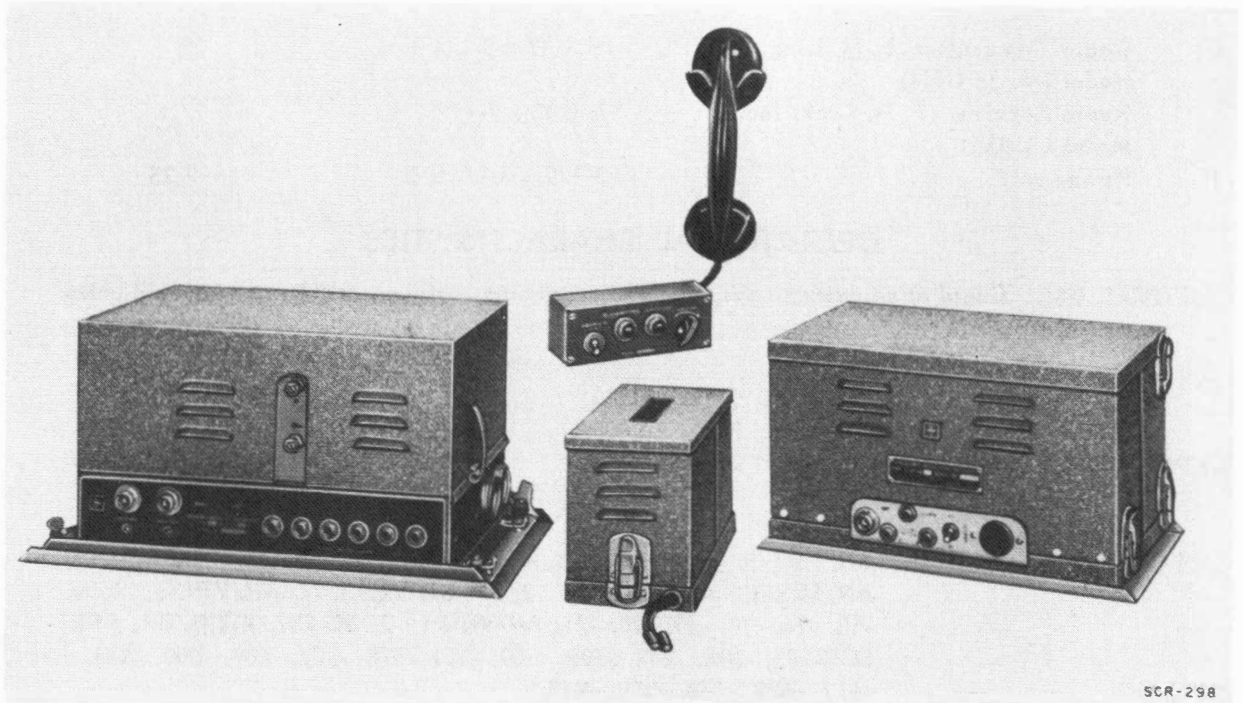
STATUS: Limited Standard
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Army, Navy
 DATE OF THIS SHEET: 22 Jan 52

AN/VRC-TYPE

SERVICE TYPE NUMBER:

SCR-298

RADIO SET



SCR-298

Radio Set SCR-298 is a vehicular, short-range, f-m (voice) transmitting and receiving equipment used by military police, security troops, and similar units.

This equipment is usually installed in the luggage carrier compartment of a vehicle and consists of a commercial police type radio receiver and transmitter with a power supply. The set is operated by means of a remote control unit installed in the driver's compartment.

Can be used to monitor or operate in radio communication nets serving field artillery or armored force. Operates on power derived from the battery of the vehicle in which it is installed.

AN/VRC-TYPE		INSTRUCTION LITERATURE: None
SCR-298	:SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT:Unclassified
RADIO SET		USING SERVICE : Army, Navy
		DATE OF THIS SHEET: 22 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter (F. M. Link, Inc. Model No. 35 UFM)	9 X 17 x 8-1/4	29
1	Radio Receiver (F. M. Link, Inc. Model LL-UF)	9 x 13 x 7-1/2	17.5
1	Power unit	8-1/2 x 4-1/4 x 5	7.25

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Guard or security troops, armored or infantry division, artillery or armored units.

INSTALLATION: Ground, vehicular.

APPROXIMATE RANGE (IN MILES): 7 - 10.

CAN COMMUNICATE WITH: AN/FRT-5, -6; AN/GRC-3, -4, -5, -6; AN/MRC-5, -16; AN/PRC-8, -9; AN/SRR-13; 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 -28.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice only.

POWER OURPUT: 25 w.

POWER REQUIREMENTS: 6-v vehicular storage battery:
Transmitting: (32 amp).
Stand-by: (2.25 amp).

PHYSICAL CHARACTERISTICS

Radio Set SCR-298 weighs 75 pounds net. Packed for export shipment: total weight 185 pounds, total volume 15 cu ft.

STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

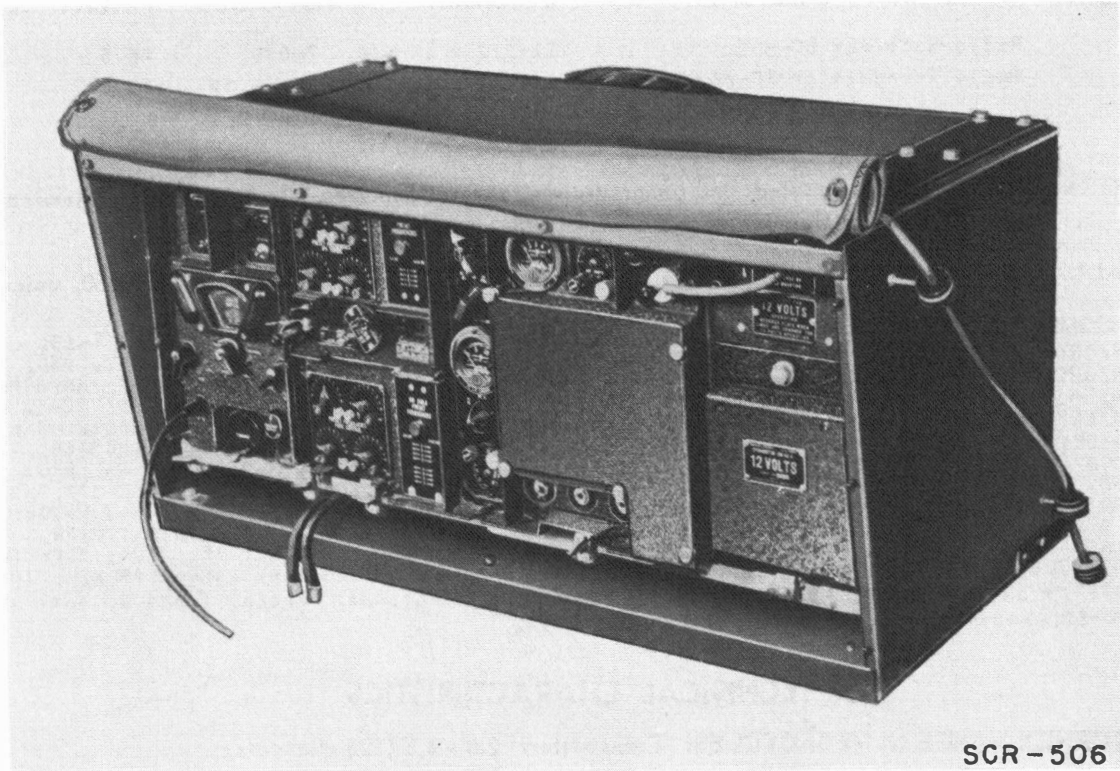
DATE OF THIS SHEET: 9 Jan 52

AN/VRC-TYPE

SERVICE TYPE NUMBER:

SCR-506

RADIO SET



Radio Set SCR-506 is a medium power, a-m (voice) and cw, vehicular radio transmitting and receiving equipment used by motorized tactical units for ground-to-ground and ground-to-air communication in the medium frequency range.

This equipment consists of a radio transmitter and a radio receiver mounted on a vehicular shock mounting common to both, and includes antenna, cording and accessory items. It is usually installed in tanks, armored and amphibious vehicles, personnel carriers and similar vehicles, and has provision for rapidly adjusting, and operating over, any of five preselected channels.

Operates from the storage battery of the vehicle in which it is installed.

AN/VRC-TYPE		INSTRUCTION LITERATURE: TM 11-630
SCR-506	: SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET		USING SERVICE: Army
		DATE OF THIS SHEET: 9 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver BC-652	12-1/2 x 14-5/8 x 7-5/8	46.5
1	Radio Transmitter BC-653	12-1/2 x 14-5/8 x 25-19/32	143.0

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Infantry, armored, and armored-cavalry motorized elements. Air Force, Chemical Corps, artillery, infantry, Signal Corps, Army Security Agency.

INSTALLATION: Ground, vehicular. **APPROXIMATE RANGE (IN MILES):** cw - 50, voice - 20.

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, -18; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7; 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, -213/SR, -274/FRR, -320/FRC, -388/URR; RAL; RAO; RAS; RBB; RBG; RBH; RBM; RBO; RBP; RBS; RC-52; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -198, -193, -244, -274, -281, -399, -499, -506, -536, -543, -585, -593, -607, -694, -704; T-4/FRC, -83/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; TBX; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCZ; TDE; TDF; TDH; TDN; TEO; TEB; TEC; TEF; AR-8B (RCA); Collins 18S-4 (AF Model); Collins 32V-2, 75A-2; Fisher TS 25-3; Hammarlund SP-60-JX; Marconi TH-41-B; National HR0-50; Westinghouse Type MW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: Transmitter: 2.0 - 4.5 (126 channels)
Receiver : 2.0 - 6.0 (201 channels, 2 bands)
Band 1: 2.0 - 3.5 (75 channels) Band 2: 3.5 - 6.0 (126 channels).

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice and cw.

POWER OUTPUT: Transmitter: Cw 50 - 90 w
Voice 10 - 25 w.

POWER REQUIREMENTS: 12- or 24- v vehicular storage battery.

PHYSICAL CHARACTERISTICS

Radio Set SCR-506 measures 14-1/2 x 14-5/8 x 33 inches, net weight 357 pounds, volume 4.05 cu ft. Packed for domestic shipment: total volume 25 cu ft, 0.6 ship ton. Packed for export shipment: total weight 535 pounds, total volume 25 cu ft, 0.6 ship ton. Shipped in 4 packages both domestic and export.

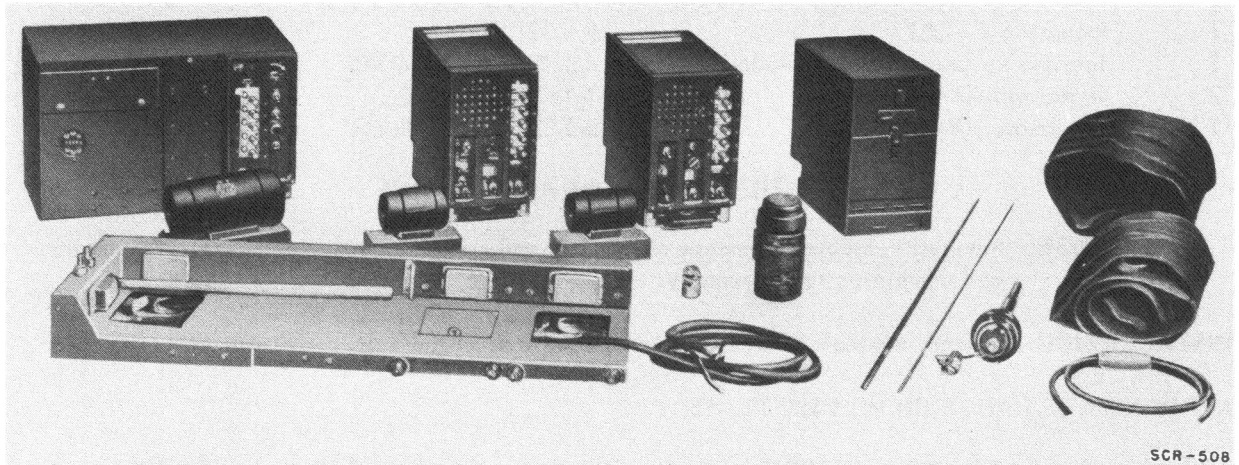
STATUS: Limited Standard
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Army, Navy
 DATE OF THIS SHEET: 22 Jan 52

AN/VRC-TYPE

SERVICE TYPE NUMBER:

SCR-508

RADIO SET



SCR-508

Radio Set SCR-508 is a vehicular, medium-range, crystal-controlled, f-m (voice) radiotelephone equipment used by armored units.

This equipment consists of two receivers and one transmitter mounted on a common shock mount and provides a total of 20 receiving and 10 transmitting channels. It also provides for operation of the vehicular interphone system. Each receiver and the transmitter provide 80 frequency channels, 10 of which are preset, and are selected by means of push buttons mounted on the front panel of each. A whip-type vehicular antenna, set of crystals, and related accessories are included.

This set operates from power derived from the storage battery of the vehicle in which it is installed. The transmitter and each receiver has an individual dynamotor.

AN/VRC-TYPE		INSTRUCTION LITERATURE: TM 11-600
SCR-508	:SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET		USING SERVICE : Army, Navy
		DATE OF THIS SHEET : 22 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter BC-604	11-1/2 x 10-1/4 x 18	67
2	Radio Receivers BC-603 (each)	11-1/2 x 6-3/4 x 12-1/2	35
1	Mounting FT-237	5 x 12 x 33	26
1	Interphone Control Box BC-606-H	4-1/2 x 2-1/4 x 4-1/4	1.8
2	Dynamotor DM -34 or 36 (each)	4-1/2 x 3 x 6-1/2	4.7
1	Dynamotor DM-35 or 37	5-1/2 x 4-1/2 x 8-1/4	9.2

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Armored vehicular elements of infantry and armored divisions. Cavalry squadron and amphibion tank company.

INSTALLATION: Ground, vehicular. Operates on the move 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 (transmitter, 80 channels).

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 25 w.

POWER REQUIREMENTS:

- Transmitter: 12-v vehicular battery through Dynamotor DM-35, 24-v vehicular battery through Dynamotor DM-37.
- Receiver: 12-v vehicular battery through Dynamotor DM-34, 24-v vehicular battery through Dynamotor DM-36.

PHYSICAL CHARACTERISTICS

Radio Set SCR-508 packed for domestic or export shipment: total weight 710 pounds, total volume 31.6 cu ft, 0.75 ship ton. Shipped in 7 packages both domestic and export.

STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army, Navy
DATE OF THIS SHEET: 22 Jan 52

AN/VRC-TYPE

SERVICE TYPE NUMBER:

SCR-510

RADIO SET



Radio Set SCR-510 is a pack and vehicular, short-range, low-power, f-m (voice), radiotelephone equipment used as a command set by field artillery, infantry, and armored units.

This equipment consists of a receiver-transmitter, power supply unit, and accessories. Provides 80 crystal-controlled channels spaced 100 kc apart, two of which can be preset.

Can be operated from a remote point over a telephone pair by means of standard remote control apparatus.

Operates on the ground from dry batteries in Case CS-79, and is then identical with Radio Set SCR-509.

AN/VRC-TYPE		INSTRUCTION LITERATURE: TM 11-605
SCR-510	:SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET		USING SERVICE : Army, Navy
		DATE OF THIS SHEET: 22 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver and Transmitter BC-620	6-3/4 x 13-3/16 x 14-15/16	27.20
1	Power Supply Unit PE-120, or Case CS-79	6 x 13-3/16 x 14-15/16	20.00

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Vehicular command set for field artillery, infantry and armored units. Cavalry squadron and ordnance battalion.

INSTALLATION: Ground, vehicular. Operates on the move or at the halt.

APPROXIMATE RANGE (IN MILES): 5.

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.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 1.8 w.

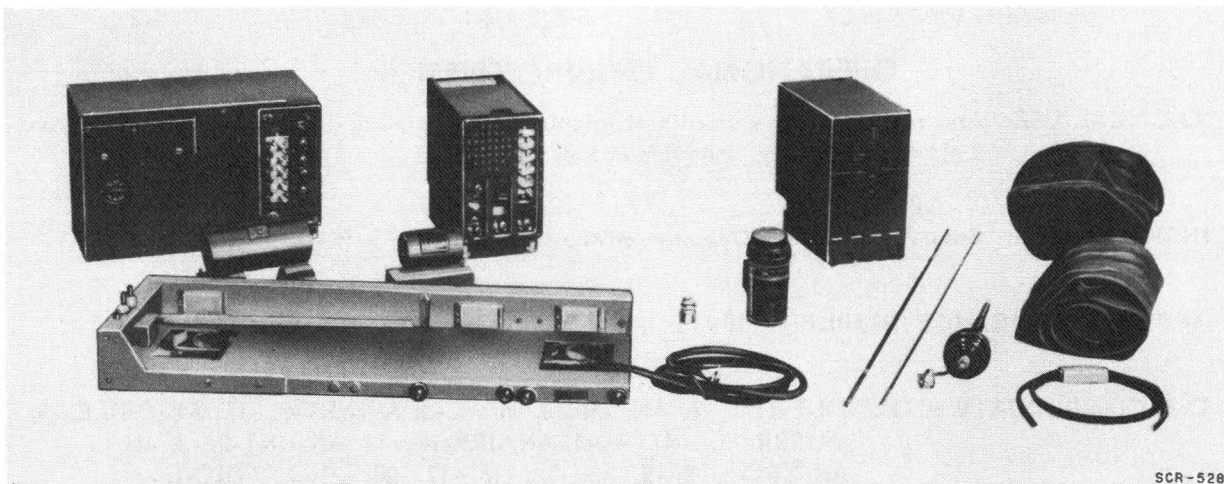
POWER REQUIREMENTS: For vehicular operation: 6- or 12-v vehicular storage battery, Battery BA-41, and Plate Supply Unit PE-97 or Power Supply Unit PE-120.

PHYSICAL CHARACTERISTICS

Radio Set SCR-510 packed for export shipment: total weight 235 pounds, total volume 12 cu ft.

STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army, Navy
DATE OF THIS SHEET: 22 Jan 52

AN/VRC-TYPE
SERVICE TYPE NUMBER: SCR-528
RADIO SET



SCR-528

Radio Set SCR-528 is a vehicular, short-range, crystal-controlled, f-m (voice), transmitting and receiving equipment used for radio communication by vehicles of armored units.

This equipment consists of a radio transmitter and radio receiver mounted on a shock mount common to both, dynamotors, antenna, and accessories. The transmitter and receiver operate on 10 preset channel frequencies which are selected by means of 10 push buttons on the front panels of these components. Set also provides for operation of the interphone system of inclosed armored vehicles.

The set operates from the storage battery of the vehicle in which the equipment is installed and can be provided with dynamotors for the voltage of the vehicular battery. Dynamotors are installed within the transmitter and the receiver components

AN/VRC-TYPE		INSTRUCTION LITERATURE: TM 11-600
SCR-528	: SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET		USING SERVICE: Army, Navy
		DATE OF THIS SHEET: 22 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter BC-604	11-1/2 x 10-1/4 x 18	67
1	Radio Receiver BC-603	11-1/2 x 6-3/4 x 12-1/2	35
1	Mounting FT -237	5 x 12 x 33	26
1	Interphone Control Box BC-606	4-1/2 x 2-1/4 x 4-1/4	1.8
1	Dynamotor DM-34 or 36	4-1/2 x 3 x 6-1/2	4.7
1	Dynamotor DM-35 or 37	5-1/2 x 4-1/2 x 8-1/4	9.2

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Armored vehicular elements of infantry and armored divisions. Cavalry squadron, light tank company, amphibious tank company.

INSTALLATION: Ground, vehicular. Operates on the move 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.

FREQUENCY RANGE IN MEGACYCLES: 20.0 - 27.9 at 0.1mc intervals (transmitter, 80 channels).

TECHNICAL CHARACTERISTICS

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 30 w.

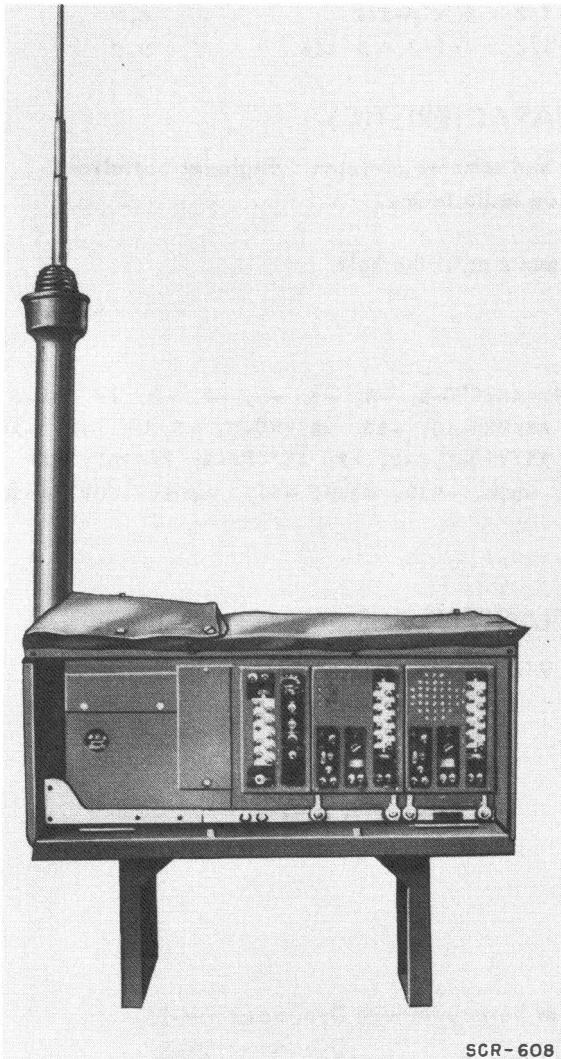
POWER REQUIREMENTS:
 Transmitter: 12-v vehicular battery through Dynamotor DM-35,
 24-v vehicular battery through Dynamotor DM-37.

Receiver: 12-v vehicular battery through Dynamotor DM-34,
 24-v vehicular battery through Dynamotor DM-36.

PHYSICAL CHARACTERISTICS

Radio Set SCR-528 packed for domestic or export shipment: total weight 645 pounds, total volume 29.6 cu ft, 0.75 ship ton. Shipped in 6 packages both domestic and export.

STATUS: Limited Standard CLASSIFICATION OF EQUIPMENT: Unclassified USING SERVICE: Army, Navy DATE OF THIS SHEET: 30 Jan 52	AN/VRC-TYPE	
	SERVICE TYPE NUMBER:	SCR-608
	RADIO SET	



Radio Set SCR-608 is a crystal-controlled, vehicular, short-range, low-power radiotelephone equipment used for f-m (voice) communication in the frequency range assigned field artillery units.

This equipment consists essentially of two receivers and one transmitter, appropriate dynamotors, antenna components, and accessories.

The transmitter and each of the receivers provide 120 channel frequencies, 10 of which may be preset, in each case. Each of these components have on their respective front panels 10 push buttons for selecting frequency channels. There are thus provided 10 transmitting and 20 receiving channels.

This set provides for operation of the interphone equipment of the vehicle in which it is installed.

Through selection of appropriate dynamotors it can operate from 12- or 24-v vehicular storage batteries.

AN/VRC-TYPE		INSTRUCTION LITERATURE: TM 11-620
SCR-608	:SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET		USING SERVICE : Army, Navy
		DATE OF THIS SHEET : 30 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter BC-684	11-1/2 x 10-1/4 x 18	67.0
1	Mounting FT-237	5-1/2 x 13 x 33-5/8	44.0
2	Radio Receiver BC-683	11-1/2 x 6-3/4 x 12-1/2	35.0
2	Dynamotor DM-34	4-1/2 x 3 x 6-1/2	4.7
1	Dynamotor DM-35	5-1/2 x 4-1/2 x 8-1/4	9.2

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Field artillery elements of infantry and armored division. Engineer battalion, field artillery battery, military police radio teams.

INSTALLATION: Ground, vehicular, operates on the move or at the halt.

APPROXIMATE RANGE (IN MILES): 10 - 15.

CAN COMMUNICATE WITH: AN/CR-3; AN/FRC-6, -9; AN/GRC-3, -4, -5, -6, -7, -8; AN/MRC-5, -16; AN/PRC-8, -9, -10; AN/SRR-13; AN/TRQ-1; AN/URR-10, -12; AN/VRC-2, -5, -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, -508, -509, -510, -528, -607, -608, -609, -610, -619, -628, -678, -808, -828.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 27.0 - 38.9 in 120 channels.

TYPE MODULATION: Frequency modulated.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 20 w.

POWER REQUIREMENTS: Transmitter: 12-v vehicular battery through Dynamotor DM-35,
 24-v " " " " Dynamotor DM-37.
 Receiver: 12-v " " " " Dynamotor DM-34,
 24-v " " " " Dynamotor DM-36.

PHYSICAL CHARACTERISTICS

Radio Set SCR-608 packed for domestic or export shipment: total weight 660 pounds, total volume 31.6 cu ft, 0.75 ship ton. Shipped in 7 packages both domestic and export.

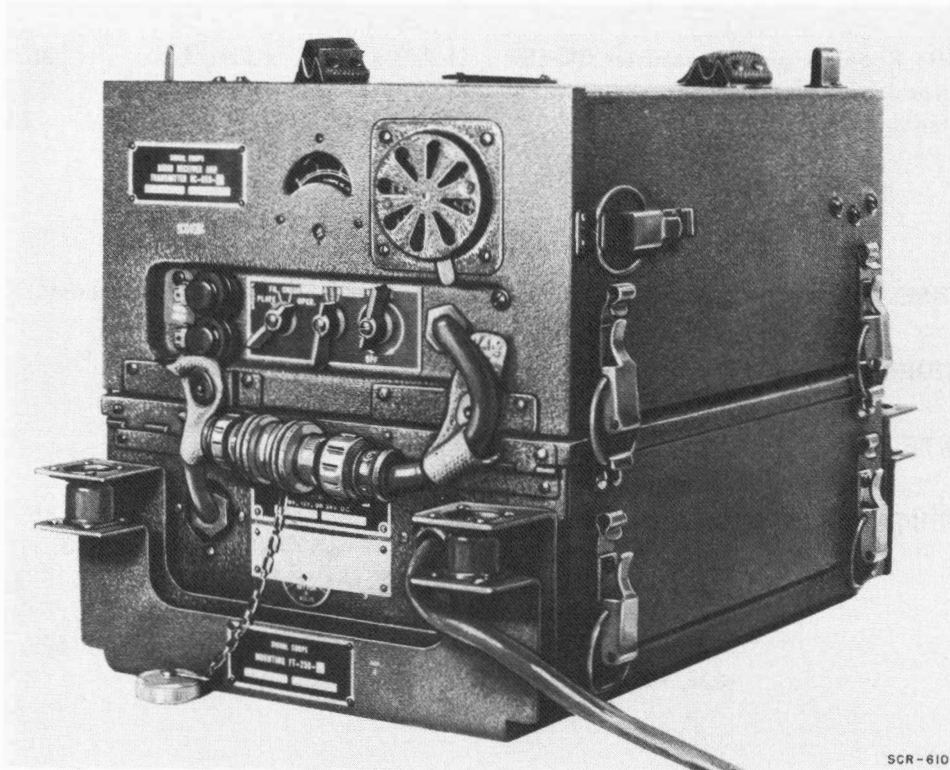
STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army, Navy
DATE OF THIS SHEET: 22 Jan 52

AN/VRC-TYPE

SERVICE TYPE NUMBER:

SCR-610

RADIO SET



SCR-610

Radio Set SCR-610 is a transportable and vehicular, short-range, low-power, f-m (voice) radiotelephone equipment used as a command set by field artillery units.

This equipment consists of a receiver-transmitter, power supply unit, and accessories. Provides 80 crystal-controlled channels spaced 100 kc apart, two of which can be preset. This equipment can be operated from a remote point over a telephone pair by means of standard remote control equipment. When operated on the ground from batteries (in Case CS-79) the equipment is identical with Radio Set SCR-609.

AN/VRC-TYPE		INSTRUCTION LITERATURE: TM 11-615
SCR-610	:SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO SET		USING SERVICE : Army, Navy
		DATE OF THIS SHEET : 22 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver and Transmitter BC-659	11-7/8 x 16-3/8 x 21-1/2	35.13
1	Power Supply Unit PE-120	8-7/8 x 16-1/2 x 18-7/8	33.8
1	Antenna AN-29	15-1/2 (collapsed)	2.0

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Engineer company, field artillery battery, and military police company.

INSTALLATION: Installed and operated in vehicles.

APPROXIMATE RANGE (IN MILES): 5.

CAN COMMUNICATE WITH: AN/CRC-3; AN/FRC-6, -9; AN/GRC-3, -4, -5, -6, -7, -8; AN/MRC-5, -16; AN/PRC-8, -9, -10; AN/SRR-13; AN/TRQ-1; AN/URR-10, -12; AN/VRC-2, -5, -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, -508, -509, -510, -528, -607, -608, -609, -610, -619, -628, -678, -808, -828.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 27.0 - 38.9 (receiver and transmitter).

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 1.3 w.

POWER REQUIREMENTS: Plate Supply Unit PE-117 from 6- or 12-v storage battery or Power Supply Unit PE-120 from 6-, 12-, or 24-v storage battery.

PHYSICAL CHARACTERISTICS

Radio Set SCR-610 packed for domestic shipment: total weight 248.5 pounds. Packed for export shipment: total weight 280 pounds, total volume 13.04 cu ft.

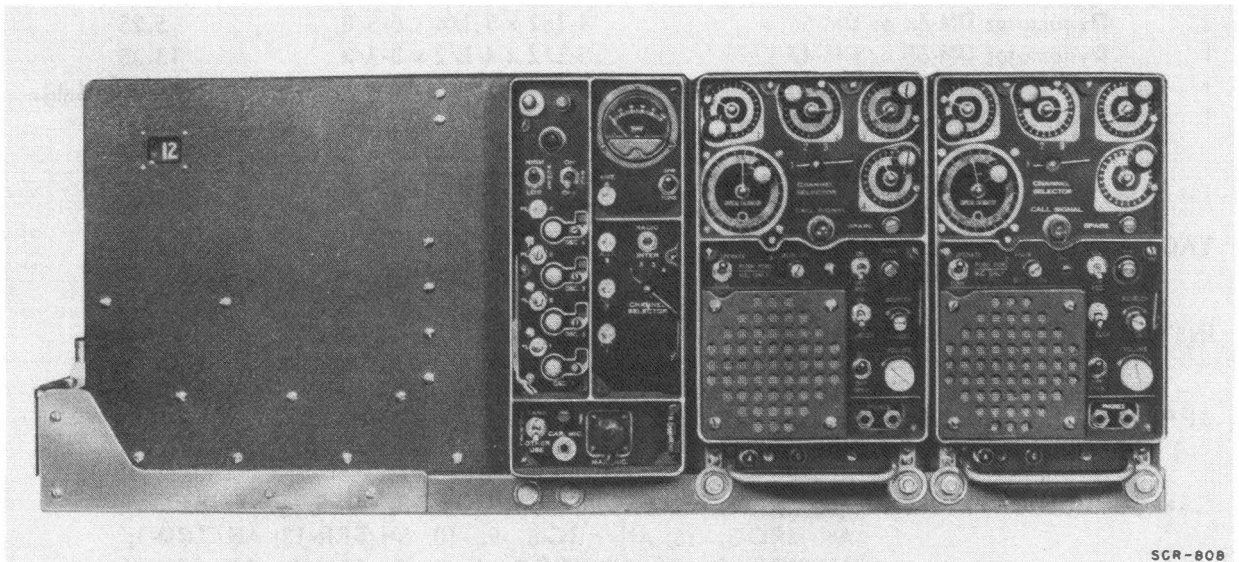
STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army, Navy
DATE OF THIS SHEET: 31 Jan 52

AN/VRC-TYPE

SERVICE TYPE NUMBER:

SCR-808

RADIO SET



Radio Set SCR-808 is a vehicular, crystal-controlled, short-range, f-m (voice only) radiotelephone equipment used for coast artillery, military police, security, and similar operations.

This equipment uses a whip-type antenna and consists of a transmitter and two receivers installed on a common mount. It is capable of covering 120 channels spaced 100 kc apart, four of which are preset and are selected through a four-position selector switch.

This set is powered through an appropriate dynamotor by the 12- or 24- v storage battery of the vehicle in which it is installed.

AN/VRC-TYPE		INSTRUCTION LITERATURE: TM 11-601
		CLASSIFICATION OF EQUIPMENT: Unclassified
SCR-808	: SERVICE TYPE NUMBER	USING SERVICE : Army, Navy
RADIO SET		DATE OF THIS SHEET: 31 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter BC-924-A	11-1/2 x 10-1/2 x 18	49
2	Radio Receiver BC-923-A	11-1/2 x 12-3/4 x 6-3/4	42
2	Dynamotor DM-64 or DM-66	4-1/2 x 3-1/4 x 6-5/8	5.25
1	Dynamotor DM-65 or DM-47	5-1/2 x 4-1/2 x 8-3/4	13.25
1	Interphone Amplifier BC-692	Not Available	Not Available
1	Interphone Control Box BC-606	" "	" "

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Antiaircraft battery.

INSTALLATION: Vehicle.

APPROXIMATE RANGE (IN MILES): 15.

CAN COMMUNICATE WITH: AN/CRC-3; AN/FRC-6, -9; AN/GRC-3, -4, -5, -6, -7, -8;
 AN/MRC-5, -16; AN/PRC-8, -9, -10; AN/SRR-13; AN/TRQ-1;
 AN/URR-10, -12; AN/VRC-2, -5, -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, -508, -509,
 -510, -528, -607, -608, -609, -610, -619, -628, -678, -808, -828.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 27.0 - 38.9.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 2 to 35 w.

POWER REQUIREMENTS: 12 / 24 v, dc.

PHYSICAL CHARACTERISTICS

Radio Set SCR-808 weighs 373 pounds net. Packed for domestic shipment: total weight 533 pounds, total volume 28 cu ft. Shipped in 5 packages.

STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

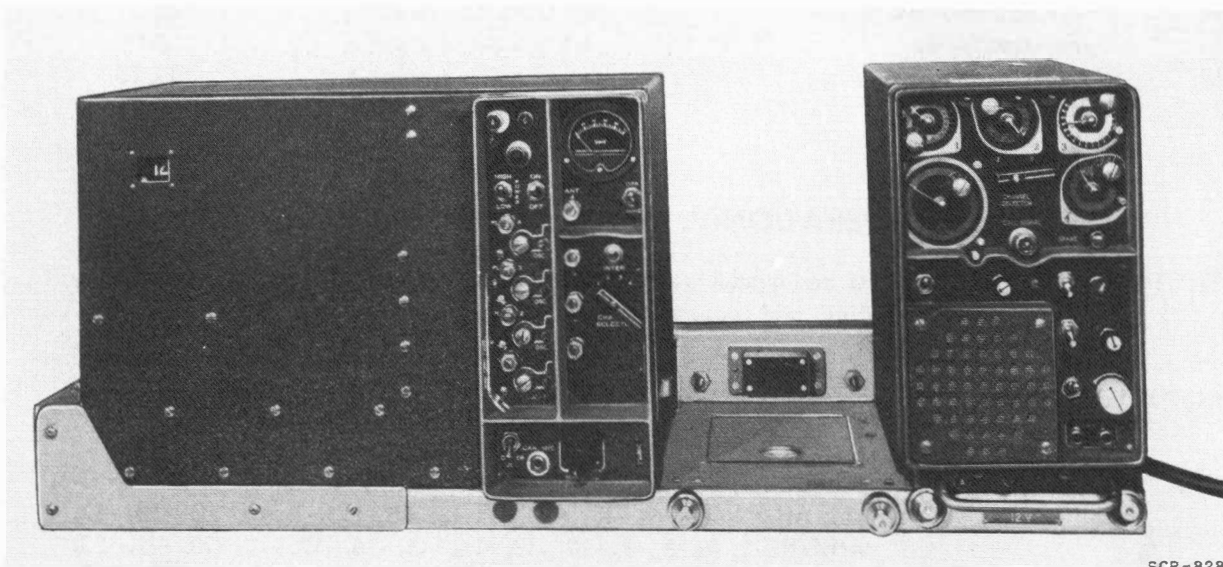
DATE OF THIS SHEET: 28 Jan 52

AN/VRC-TYPE

SERVICE TYPE NUMBER:

SCR-828

RADIO SET



Radio Set SCR-828 is a vehicular, v-h-f, short-range, f-m (voice), receiving and transmitting equipment used by coast artillery and military police units.

This equipment consists of a transmitter, a receiver installed on a common shock mount, and associated accessories. It operates on 120 channels, four of which are preset.

Set uses a whip-type vehicular antenna and has a crystal calibrator.

Power is obtained from the storage battery of the vehicle in which the equipment is installed, through appropriate dynamotors.

AN/VRC-TYPE		INSTRUCTION LITERATURE: TM 11-601
SCR-828	:SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT:Unclassified
Radio Set		USING SERVICE : Army
		DATE OF THIS SHEET : 28 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter BC-924-A	11-1/2 x 10-1/2 x 18	49
1	Radio Receiver BC-923-A	11-1/2 x 12-3/4 x 6-3/4	42
1	Dynamotor DM-64	4-1/2 x 3-1/4 x 6-5/8	5.25
1	Dynamotor DM-65	5-1/2 x 4-1/2 x 8-3/4	13.25
2	Mast Sections MS-117	39-1/2	0.66
2	Mast Sections MS-118	39-5/8	0.81

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Headquarters and headquarters battery, antiaircraft artillery, seacoast artillery; military police; and security troop units.

INSTALLATION: Ground, vehicular.

CAN COMMUNICATE WITH: AN/CRC-3; AN/FRC-6, -9; AN/GRC-3, -4, -5, -6, -7, -8; AN/MRC-5, -16; AN/PRC-8, -9, -10; AN/SRR-13; AN/TRQ-1; AN/URR-10, -12; AN/VRC-2, -5, -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, -508, -509, -510, -528, -607, -608, -609, -610, -619, -628, -678, -808, -828.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 27.0 - 38.9.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: High: 30 to 35 w.

Low: 2 w.

POWER REQUIREMENTS: 12-v storage battery.

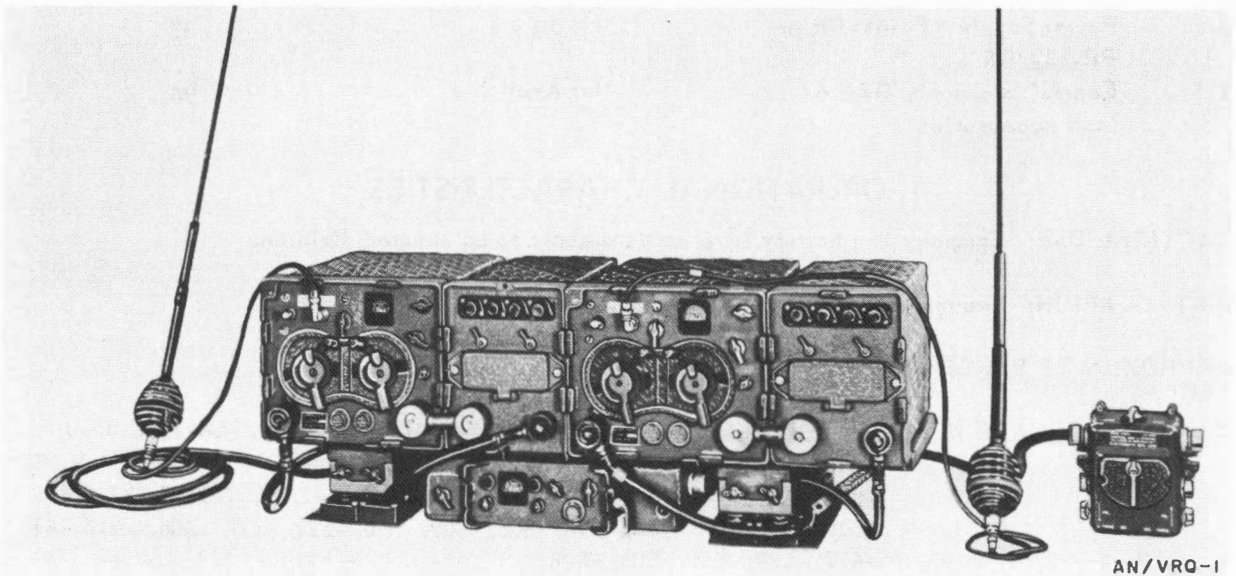
PHYSICAL CHARACTERISTICS

Radio Set SCR-828 packed for export shipment: total weight 373.5 pounds, total volume 18 cu ft.

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

AN/VRQ-1

RADIO SET



Radio Set AN/VRQ-1 is a short-range, vehicular, f-m (voice) equipment for point-to-point, retransmission, or radio relay communication within and between armored units or between armored and artillery units.

This set consists of two Receiver-Transmitters RT-66/GRC 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, and control and accessory units 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/VRQ-1

INSTRUCTION LITERATURE: TM 11-287
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE : Army
 DATE OF THIS SHEET: 8 Jan 52

RADIO SET

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
2	Receiver-Transmitter RT-66/GRC	9 x 13 x 11-1/4	35
2	Power Supply PP-109/GR or PP-112/GR	9 x 13 x 8	33
1	Control Group AN/GRA-6 (and accessories)	Not Available	96

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Company and battery 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 at each RT-66/GRC).

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: (Each receiver-transmitter) Transmitting: High power 16 w
 Low power 2 w
 Receiver: Loudspeaker 1 w
 Headphone 50 mw

POWER REQUIREMENTS: From vehicular storage battery: 12 v 24 v
 Transmitting (each set): 11.9 (7.3 amp)
 Stand-by (each set): 2.3 (1.5 amp)

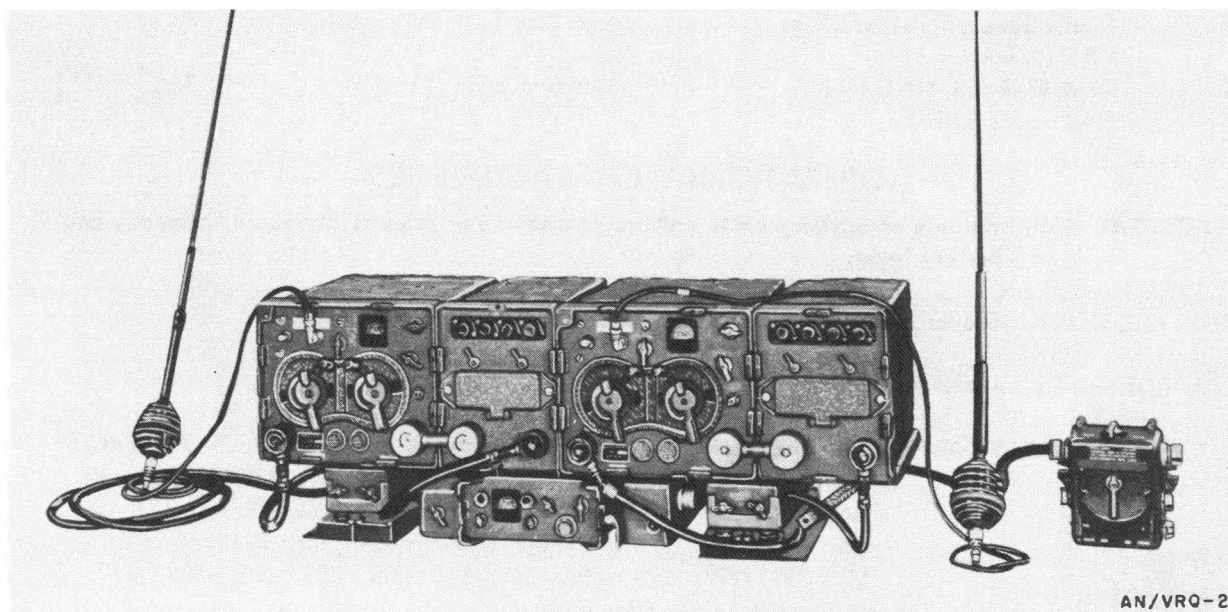
PHYSICAL CHARACTERISTICS

Radio Set AN/VRQ-1 packed for export shipment: total weight 427 pounds, total volume 8.4 cu ft.
 Shipped in 3 packages.

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

AN/VRQ-2

RADIO SET



Radio Set AN/VRQ-2 is a short-range, vehicular, f-m (voice) equipment for point-to-point, retransmission, or radio relay communication within and between artillery units or between artillery and armored or infantry units.

This set consists of two Receiver-Transmitters RT-67/GRC designated as set 1 when used as part of radio sets of the integrated series such as Radio Sets AN/GRC-5 and AN/GRC-6. Vehicular installation unit, power supply equipment, and control and accessory units 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/VRQ-2	INSTRUCTION LITERATURE: TM 11-287
	CLASSIFICATION OF EQUIPMENT: Unclassified
	USING SERVICE: Army
RADIO SET	DATE OF THIS SHEET: 8 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
2	Receiver-Transmitter RT-67/GRC	9 x 13 x 11-1/4	35
2	Power Supply PP-109/GR or PP-112/GR	9 x 13 x 8	33
1	Control Group AN/GRA-6 (and accessories)	Not Available	96

OPERATIONAL CHARACTERISTICS

TACTICAL USE: For use of artillery units organic to airborne or infantry divisions, company and battery level.

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

APPROXIMATE RANGE (IN MILES): 10 - 15.

CAN COMMUNICATE WITH: AN/CRC-3; AN/FRC-6, -9; AN/GRC-3, -4, -5, -6, -7, -8; AN/MRC-5, -16; AN/PRC-8, -9, -10; AN/SRR-13; AN/TRQ-1; AN/URR-10, -12; AN/VRC-2, -5, -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, -508, -509, -510, -528, -607, -608, -609, -610, -619, -628, -678, -808, -828.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 27.0 - 38.9 (120 detented channels, two preselected channels, or continuous manual tuning at each RT-67/GRC).

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: (Each receiver-transmitter)

Transmitting:	High power	16 w
	Low power	2 w
Receiver:	Loudspeaker	1 w
	Headphone	50 mw

POWER REQUIREMENTS:

From vehicular storage battery:	12 v	24 v
Transmitting (each set):	11.9	(7.3 amp)
Stand-by (each set):	2.3	(1.5 amp)

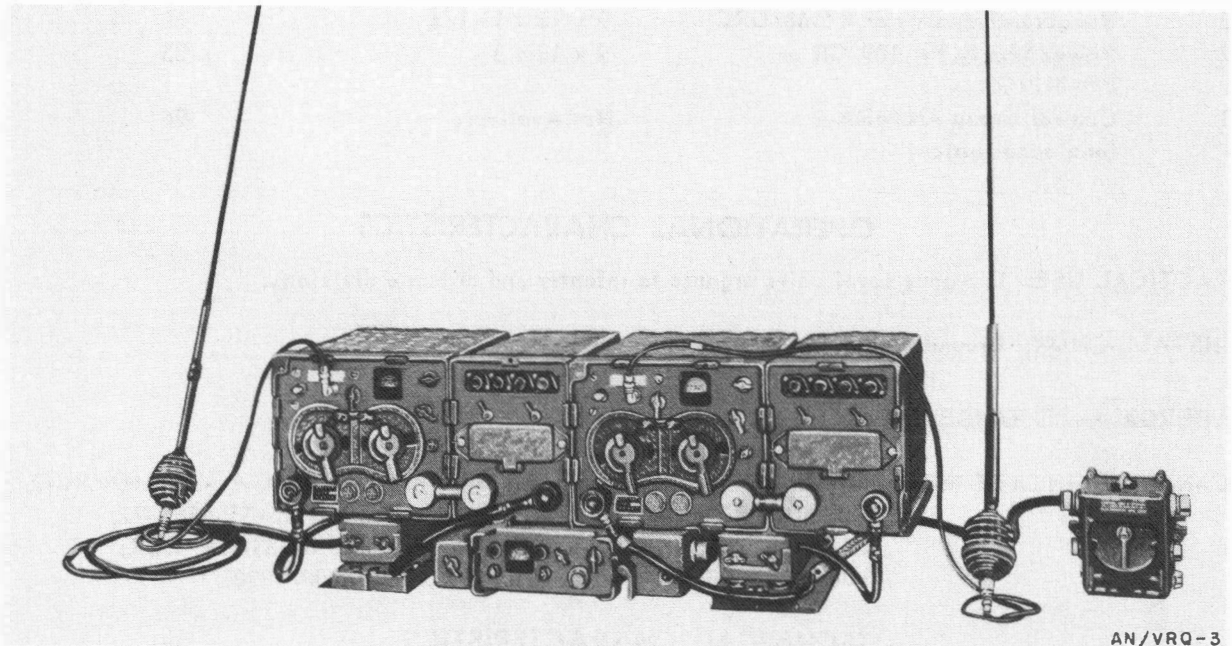
PHYSICAL CHARACTERISTICS

Radio Set AN/VRQ-2 packed for export shipment: total weight 427 pounds, total volume 8.4 cu ft. Shipped in 3 packages.

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

AN/VRQ-3

RADIO SET



Radio Set AN/VRQ-3 is a short-range, vehicular, f-m (voice) equipment for point-to-point, retransmission, or radio relay communication within and between infantry units and between artillery and infantry units.

This set consists of two Receiver-Transmitters RT-68/GRC designated as set 1 when used as part of radio sets of the integrated series such as Radio Sets AN/GRC-7 and AN/GRC-8. Vehicular installation unit, power supply equipment, and control and accessory units 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.

<h1>AN/VRQ-3</h1>	INSTRUCTION LITERATURE: TM 11-287
	CLASSIFICATION OF EQUIPMENT: Unclassified USING SERVICE : Army
RADIO SET	DATE OF THIS SHEET : 8 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
2	Receiver-Transmitter RT-68/GRC	9 x 13 x 11-1/4	35
2	Power Supply PP-109/GR or PP-112/GR	9 x 13 x 8	33
1	Control Group AN/GRA-6 (and accessories)	Not Available	96

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Company level units organic to infantry and airborne divisions.

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

APPROXIMATE RANGE (IN MILES): 10 - 15.

CAN COMMUNICATE WITH: AN/CRC-3; AN/FRC-6, -9; AN/GRC-7, -8; AN/MRC-5, -16; AN/PRC-9, -10; AN/TRQ-1; AN/URR-10, -12; AN/VRG-2, -10, -15, -18, -22; AN/VRQ-2, -3; AN/VRR-4; BC-787; MAN; MN; R-137/GR; RBK; SCR-607, -608, -609, -610, -619, -628, -678, -808, -828.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 38.0- 54.9 (170 detented channels, two preselected channels, or continuous manual tuning at each RT-68/GRC).

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: (Each receiver-transmitter)

Transmitting:	High power	16 w
	Low power	2 w
Receiver:	Loudspeaker	1 w
	Headphones	50 mw.

POWER REQUIREMENTS:

From vehicular storage battery:	<u>12 v</u>	<u>24 v</u>
Transmitting (each set):	11.9	(7.3 amp)
Stand-by (each set):	2.3	(1.5 amp).

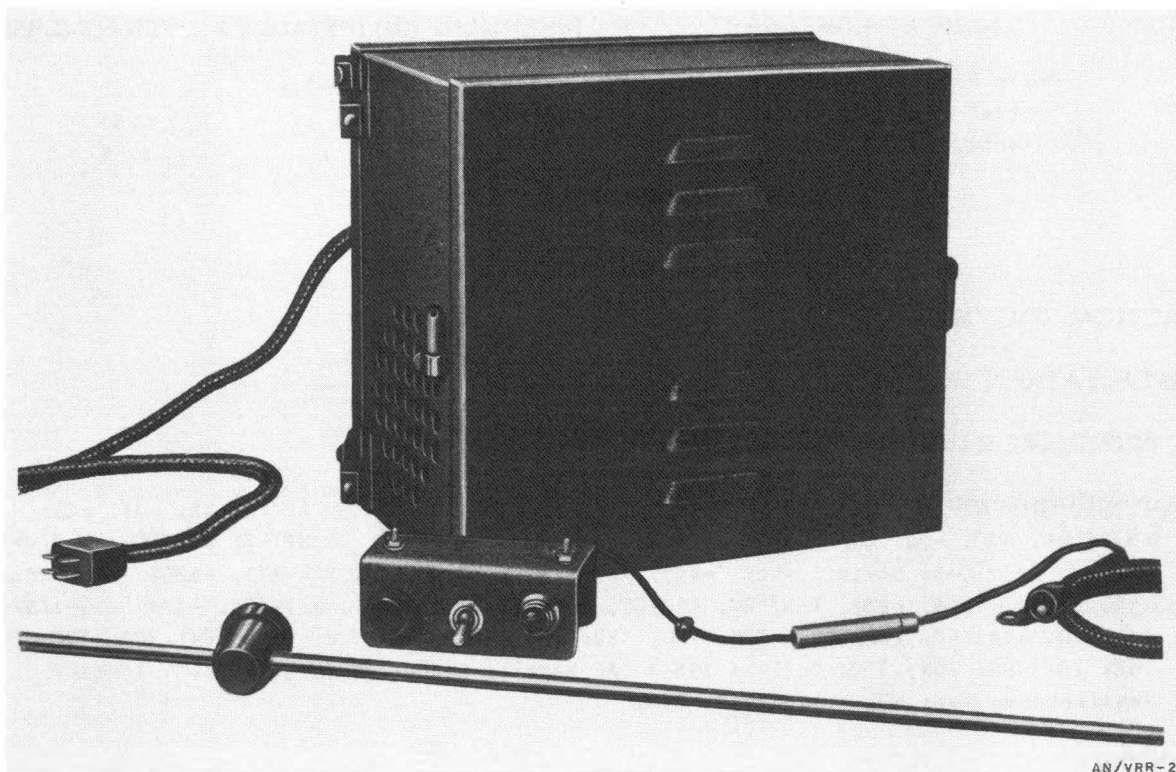
PHYSICAL CHARACTERISTICS

Radio Set AN/VRQ-3 packed for export shipment: total weight 427 pounds, total volume 8.4 cu ft. Shipped in 3 packages.

STATUS: Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army
DATE OF THIS SHEET: 11 Jan 52

AN/VRR-2

RADIO RECEIVING SET



AN/VRR-2

Radio Receiving Set AN/VRR-2 is a vehicular, single fixed-frequency, a-m (voice), medium range, receiving equipment used in traffic control, monitoring, and similar applications by military police, guard, and security troops.

This equipment consists essentially of a commercial (KAAR Type 11X) police-type radio receiver and associated components. The radio receiver, which has an integral loudspeaker, is designed to be installed under the dashboard or instrument panel of the vehicle, with the control unit at the driver's position.

Control of volume, power, and squelch circuit is provided. A vehicular-type antenna is included.

Operates from a 6-v vehicular storage battery.

<h1>AN/VRR-2</h1>	INSTRUCTION LITERATURE: TM 11-888
	CLASSIFICATION OF EQUIPMENT:Unclassified
	USING SERVICE : Army
RADIO RECEIVING SET	DATE OF THIS SHEET: 11 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver KAAR Type 11X	9-1/4 x 9-3/8 x 11-7/8	17.00
1	Control Unit KAAR Type K-SR1	2 x 2-5/8 x 4	0.50
1	Antenna, Cable, Spare Parts, etc.	Not Available	6.75

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Military police and security troops.

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

APPROXIMATE RANGE (IN MILES): Short.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -21, -25; AN/ART-13; AN/FRT-15, -17, -18; AN/GRC-9, -13, -26; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7; AN/SRT-4; AN/TRQ-1; AN/URT-2, -3, -4; AN/VRC-4; BC-191, -401, -447, -610; MBS; MQ; RC-52; SCR-177, -188, -193, 281, -399, -499, -506, -543; T-4/FRC, -83/SR, -158/FRT, -159/FRT, -173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TBK; TBL; TBM; TBO; TBU; TBX; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCZ; TDE; TDF;TDH; TDM; TDO; Collins 18S-4 (AF Model); Fisher TS 25-3; Marconi TH-41-B; Westinghouse Type MW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 1.6 - 2.9.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, tone.

POWER OUTPUT: Nominal; integral loudspeaker.

POWER REQUIREMENTS: (4.5 amp) at 6 v from vehicular storage battery.

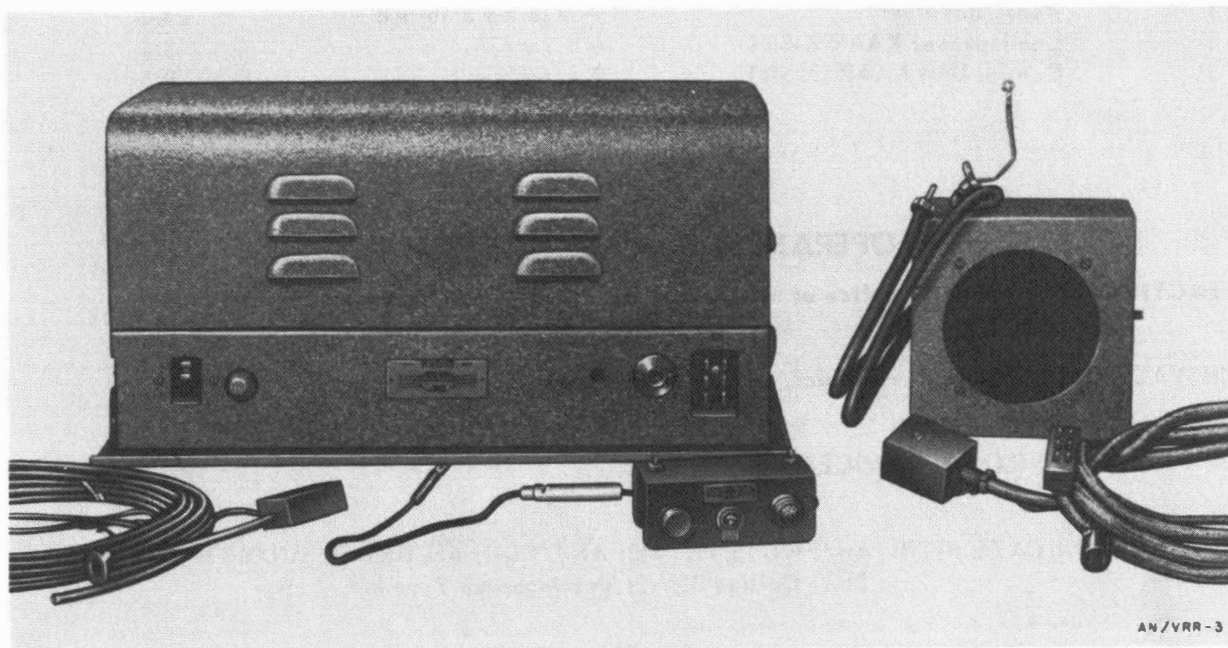
PHYSICAL CHARACTERISTICS

Radio Receiving Set AN/VRR-2 weighs 42 pounds net, volume 3 cu ft.

STATUS: Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army
DATE OF THIS SHEET: 31 Jan 52

AN/VRR-3

RADIO RECEIVING SET



Radio Receiver AN/VRR-3 is a vehicular, a-m (voice and tone) receiving equipment which operates on a single fixed frequency channel for traffic control, monitoring, and communication, by military police, security troops, and similar units at division and higher headquarters.

This equipment consists, essentially, of a commercial (KAAR) police-type, 10-tube superheterodyne radio receiver designed for installation in the luggage compartment of a patrol car with the loud-speaker and control head installed adjacent to the driver. Provides control of power, volume and squelch circuit from the driver's position. Cables, cords, and antenna are included.

It operates from the storage battery of the vehicle in which it is installed.

AN/VRR-3	INSTRUCTION LITERATURE: TM 11-887
	CLASSIFICATION OF EQUIPMENT: Unclassified USING SERVICE : Army
RADIO RECEIVING SET	DATE OF THIS SHEET : 31 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver	9-3/16 x 9 x 18-5/8	23.0
1	Loudspeaker KAAR K-SR1	6 x 3 x 6	3.0
1	Control Unit KAAR K-SR1	2 x 2-5/8 x 4	0.5

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Military police or security troops, division and higher headquarters.

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

APPROXIMATE RANGE (IN MILES): 5 - 10.

CAN COMMUNICATE WITH: AN/FRT-15, -17, -18; AN/TRQ-1; AN/URT-10; AN/VRT-1; T-173/FR; TBY; Collins 32V-2; Westinghouse Type MW.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 30 - 40 fixed, crystal-controlled.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, tone.

POWER OUTPUT: Nominal, 6-inch loudspeaker.

POWER REQUIREMENTS: (6 amp) from 6-v storage battery.

PHYSICAL CHARACTERISTICS

Radio Receiver Set AN/VRR-3 weighs 63 pounds net, volume 3.1 cu ft.

STATUS: Standard

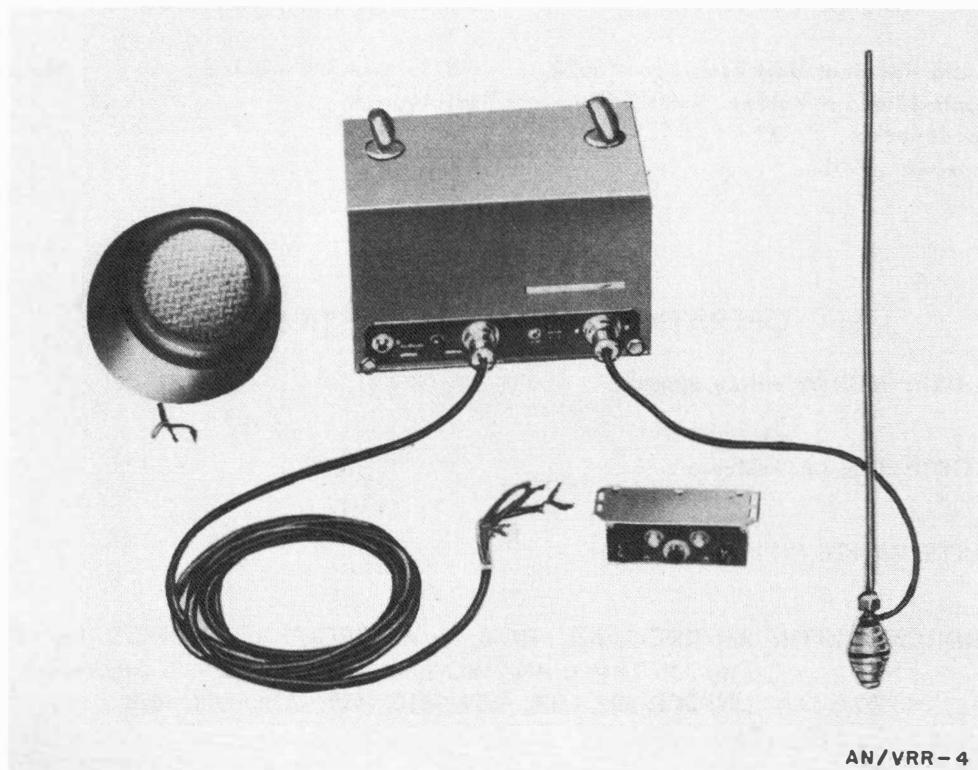
CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

DATE OF THIS SHEET: 15 Feb 52

AN/VRR-4

RADIO RECEIVING SET



Radio Receiving Set AN/VRR-4 is a vehicular, short-range, f-m, fixed frequency, crystal-controlled radio receiver used by military police, guard, and security troops for traffic control and similar communication in the v-h-f band.

This equipment consists essentially of a commercial (Galvin FMR-13v) police car radio receiver and loudspeaker, plus accessories.

This set is composed of the receiver components of Radio Set AN/VRC-2 and uses a whip-type vehicular antenna. It is powered by the storage battery of the vehicle in which it is installed.

AN/VRR-4

INSTRUCTION LITERATURE: None

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE : Army

DATE OF THIS SHEET: 15 Feb 52

RADIO RECEIVING SET

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver Unit FMR-13v (P8028)	9-5/16 x 14-3/4 x 9-1/2	Not Available
1	Control Head w/cables P-8022 (Galvin)	Not Available	" "
1	Loudspeaker P-327	" "	" "
1	Antenna P-253	" "	" "

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Military police, guards.

INSTALLATION: Ground, vehicular.

APPROXIMATE RANGE (IN MILES): Short.

CAN COMMUNICATE WITH: AN/CRC-3; AN/FRC-6, -9; AN/GRC-7, -8; AN/MRC-5, -16; AN/PRC-9, -10; AN/TRQ-1; AN/VRC-2, -3, -10, -15, -18, -22; AN/VRQ-2, -3; MAN: MN; SCR-300, -608, -609, -610, -619, -628, -808, -828.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 30 -40.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER REQUIREMENTS: (8 amp) at 6 v (storage battery).

PHYSICAL CHARACTERISTICS

Information on Radio Receiving Set AN/VRR-4 not available.

STATUS: Limited Standard
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Army
 DATE OF THIS SHEET: 15 Feb 52

AN/VRR-TYPE

SERVICE TYPE NUMBER:

SCR-294

RADIO SET



Radio Set SCR-294 is a vehicular, short-range, f-m (voice) radio receiving equipment used in armored vehicles. It is also part of Radio Set SCR-293 and is used as the "additional" receiver component of that equipment.

This equipment consists essentially of a single radio receiver and a shock mount. The receiver is capable of operating on five channels spaced 100 kc apart.

Radio Set SCR-294 is the 12-v model of this equipment; Radio Set SCR-294-B is the 24-v model.

Power is supplied by the battery of the vehicle in which the equipment is installed.

AN/VRR-TYPE

INSTRUCTION LITERATURE: None
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE : Army
 DATE OF THIS SHEET : 15 Feb 52

SCR-294 :SERVICE TYPE NUMBER
 RADIO SET

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver BC-499	9 x 9-1/2 x 12-1/4	19
1	Mounting FT-239	12-1/2 x 34-1/2 x 2-1/2	Not Available

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Armored vehicles of infantry and armored divisions.

INSTALLATION: Ground, vehicular. Operates on the move or at the halt.

APPROXIMATE RANGE (IN MILES): Line of sight.

CAN COMMUNICATE WITH: AN/FRT-5, -6; AN/GRC-3, -4, -5, -6; AN/MRC-5, -16; AN/PRC-8, -9; AN/TRQ-1; AN/URT-2, -3, -4; AN/VRC-5, -8, -9, -13, -14, -16, -17, -20, -21; AN/VRQ-1, -2; SCR-293, -298, -508, -509, -510, -528, -608, -609, -610, -619, -628, -808, -828.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 20.0 - 27.9: channels spaced 0.1mc apart.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice only.

POWER OUTPUT: 0.5 (nominal) w.

POWER REQUIREMENTS: 12 v or 24 v dc (depending upon model).

PHYSICAL CHARACTERISTICS

Radio Set SCR-294 weighs 50 pounds net, volume 2.6 cu ft. Packed for domestic shipment: total weight 200 pounds.

STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

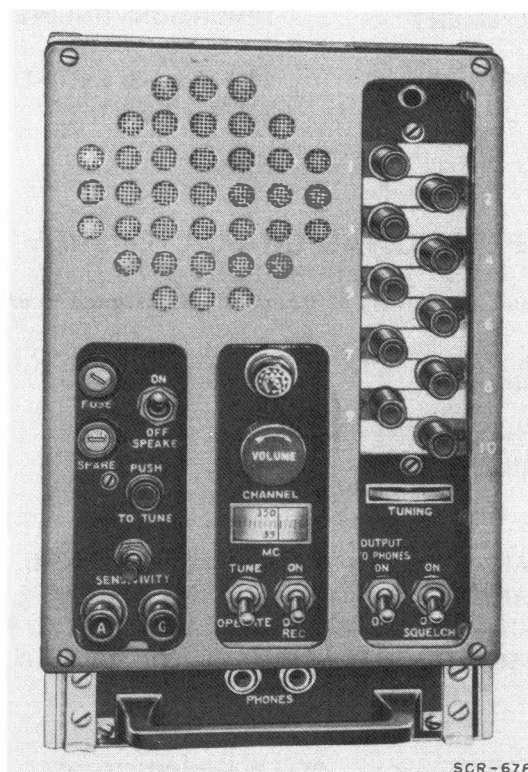
DATE OF THIS SHEET: 31 Jan 52

AN/VRR-TYPE

SERVICE TYPE NUMBER:

SCR-678

RADIO SET



Radio Set SCR-678 is a short-range, low-power, vehicular, f-m (voice) receiving equipment used for monitoring, intercept, and communication in the h-f band.

This equipment consists essentially of the radio receiver component of Radio Set SCR-608, plus a vehicular-type shock mount and related accessories. It operates on 10 crystal-controlled preset frequencies selected by means of push buttons arranged on the front panel. Uses a whip-type vehicular antenna.

Set is powered through an appropriate dynamotor mounted within the receiver and uses the storage battery (12 or 24 v) of the vehicle in which it is installed.

AN/VRR-TYPEINSTRUCTION LITERATURE: TM 11-4036
(Receiver BC-683 Repair Instructions)
CLASSIFICATION OF EQUIPMENT: Unclassified

SCR-678

:SERVICE TYPE NUMBER

USING SERVICE : Army

RADIO SET

DATE OF THIS SHEET : 31 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver BC-683	11-1/2 x 6-3/4 x 12-1/2	35
1	Dynamotor DM-34 or DM-36	4-1/2 x 3 x 6-1/2	4.7

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Reception and monitoring of frequencies assigned to artillery units.

INSTALLATION: Ground, vehicular.

APPROXIMATE RANGE (IN MILES): 15.

CAN COMMUNICATE WITH: AN/CRC-3; AN/FRC-6, -9; AN/GRC-3, -4, -5, -6, -7, -8; AN/MRC-5 -16;
AN/PRC-8, -9, -10; AN/TRQ-1; AN/VRC-2, -5, -8, -9, -10, -13, -14, -15,
-16, -17, -18, -20, -21, -22; AN/VRQ-1, -2, -3; MAN; MN; SCR-293, -298,
-508, -509, -510, -528, -608, -609, -610, -619, -628, -808, -828.**TECHNICAL CHARACTERISTICS**

FREQUENCY RANGE IN MEGACYCLES: 27.0 - 38.9.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 2 w.

POWER REQUIREMENTS: 12 v dc or 24 v dc (depending on power supply).

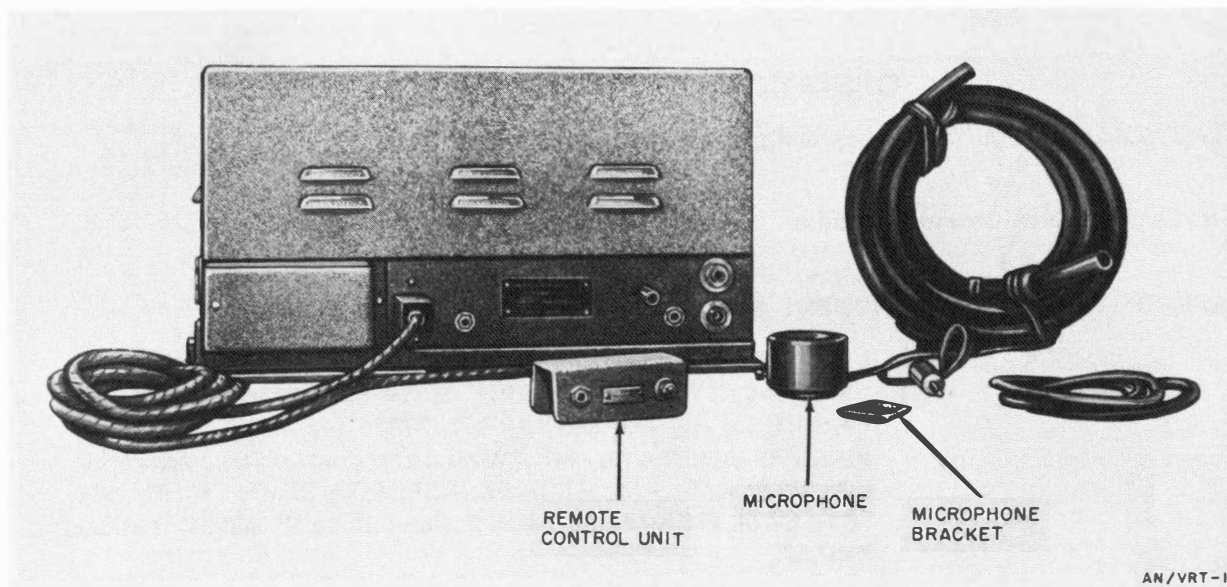
PHYSICAL CHARACTERISTICS

Radio Set SCR-678 measures 11-1/2 x 6-3/4 x 12-1/2 inches, net weight 40 pounds, volume 0.5 cu ft.

STATUS: Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army
DATE OF THIS SHEET: 11 Jan 52

AN/VRT-1

RADIO TRANSMITTING SET



Radio Transmitting Set AN/VRT-1 is a vehicular, short-range, high frequency, a-m (voice) equipment for use of military police, security troops, and similar units.

This equipment consists of a "police-type" radio transmitter and includes microphone, operator's remote control unit, and accessories permitting installation of the transmitter in the trunk of the vehicle or other convenient location. It uses a whip-type vehicular antenna.

It operates from the 6-volt battery of the vehicle in which it is installed. When operated from vehicular storage batteries of higher voltage appropriate current-modifying equipment must be added.

AN/VRT-1	INSTRUCTION LITERATURE: TM 11-842
	CLASSIFICATION OF EQUIPMENT: Unclassified USING SERVICE : Army DATE OF THIS SHEET : 11 Jan 52
RADIO TRANSMITTING SET	

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
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(Equipment consists only of a single major operating component.)

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Military police and security troops.

INSTALLATION: Ground, vehicular.

APPROXIMATE RANGE (IN MILES): 5.

CAN COMMUNICATE WITH: AN/FRR-12, -28, -32; AN/GRR-2, -3; AN/SRR-13; AN/TRQ-1; AN/URR-10, -12, -23; AN/VRR-3; BC-787, -794; OA-58/FRC; R-62/PR, -80/PR, -137/GR, -205/U, -211/U, -274/FRR, -320/FRC, -388/URR; RAO; RAS; RBG;RBK; RCF; RCG; RDM; SCR-607, -704; TBY; AR-88 (RCA); Collins 75A-2; Hammarlund SP-600-JX; National HRO-50.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 30.0 - 40.0.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: 22 w.

POWER REQUIREMENTS: 6-v vehicular battery.

PHYSICAL CHARACTERISTICS

Radio Transmitting Set AN/VRT-1 weighs 45 pounds net, volume 2.2 cu ft. Packed for domestic shipment: total weight 73 pounds, total volume 3.9 cu ft. Shipped in 2 packages.

ANNEX

ABBREVIATIONS USED IN JANAP 161

ac	alternating current
ac/dc	alternating current or direct current
af	audio frequency
AFR	Air Force Regulation
am	amplitude modulation
amp	amperes
approx	approximate (ly)
ARC	Aircraft Radio Corporation
ASA	Army Security Agency
avc	automatic volume control
bfo	beat-frequency oscillator
CAA	Civilian Aeronautics Administration
CAR—RET	carriage return (on teletypewriter keyboard)
CB	common battery
Co	company
comp	component
Corp	Corporation
cps	cycles per second
crt	cathode-ray tube
cw	continuous wave
cyc	cycles
db	decibels
dbm	decibels per milliwatt
dc	direct current
dia	diameter
ea	each
equip	equipment
Fed Tel	Federal Telephone and Radio Corporation
FIGS	figures (on teletypewriter keyboard)
fm	frequency modulation
fsk	frequency-shift keying
hf	high frequency
hr	hours
icw	interrupted continuous wave
if	intermediate frequency
in	inches
kc	kilocycles
kva	kilovolt-amperes
LB	local battery
lbs	pounds
lf	low frequency
LTRS	letters (on teletypewriter keyboard)
ma	milliamperes
MATS	Military Air Transport Service
max	maximum
mc	megacycles

mcw	modulated continuous wave
mf	medium frequency
mf/hf	medium frequency or high frequency
mi	miles
min	minimum (also minutes)
mm	millimeter
mmf	micromicrofarads
mw	milliwatts
No.	number
opm	operations per minute
Qm	Quartermaster
quant	quantity
RCA	Radio Corporation of America
rf	radio frequency
rpm	revolutions per minute
sec	second
SOS	international distress signal
trf	tuned radio frequency
uhf	ultrahigh frequency
uv	microvolt
uw	micromicrowatts
v	volts
va	volt-amperes
vf	voice frequency
vhf	very-high frequency
vlf	very-low frequency
vps	vibrations per second
w	watts
w/	with
WECO	Western Electric Company
w/mtg	with mounting
wpm	words per minute

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