

STATUS: Standard

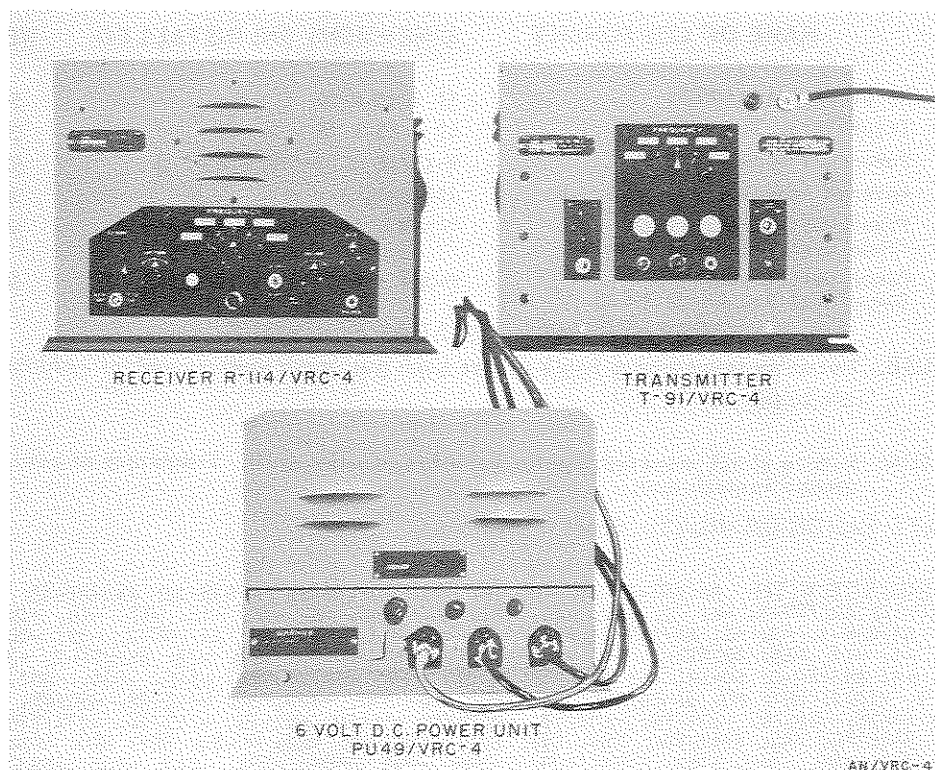
CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Air Force

DATE OF THIS SHEET: 10 Jun 52

AN/VRC-4

RADIO SET



Radio Set AN/VRC-4 (similar to Fisher Radio Set TS25-3) is normally used for either fixed or mobile two-way, ground-to-air or point-to-point communication in the h-f range. The radio receiver component operates on any four preset channels in the range 1.7 to 8.7 mc, with continuous tuning from 0.19 to 0.51 mc. The radio transmitter operates on either voice or cw on any four preset channels in the frequency range 4 to 8 mc, and one tunable range 4 to 7 mc.

This equipment uses 35-foot vertical-whip Antenna Assembly AS-170/VRC-4.

Set can operate from 110 to 220-v, ac, or 6-v, dc.

Frequency Meter Set SCR-211 is supplied with this set for receiver calibration.

This equipment will be replaced by AN/VRC-19.

AN/VRC-4

INSTRUCTION LITERATURE: TM 11-829

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RADIO SET

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver R-114/VRC-4	17 x 13 x 16	34.50
1	Transmitter T-91/VRC-4	17 x 13 x 16	39.00
1	Power Unit PU-49/VRC-4	9-13/16 x 10-5/8 x 13-7/8	32.00
1	Antenna Assembly AS-170/VRC-4	192 Height	10.75
1	Power Unit (Transmitter) Commercial No. PS-25 HIT-AC	9-3/4 x 10-11/16 x 15-7/8	47.50
1	Power Unit (Receiver) Commercial No. PS-25 HIRAC	9-3/4 x 6-13/16 x 11-11/16	15.00

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Normally issued on a basis of one each per crash vehicle and/or ambulance per air base.

INSTALLATION: Mobile shock mounted: motor vehicles, marine craft. Temporary or permanent ground installation.

APPROXIMATE RANGE (IN MILES): Short to medium.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/ART-13; AN/CRT-3, -5; AN/FRC-10; AN/FRR-3, -4, -7, -12, -28, -32; AN/FRT-5, -6, -10, -15, -17, -18, -19; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/GRT-2; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -19, -20; AN/SRC-3; AN/SRR-3, -8, -12, -13; AN/SRT-1, -3, -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, -329, -339, -342, -344, -348, -365, -401, -447, -610, -779, -794, -1004; MBS; MQ; OA-59/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, -214, -274, -281, -399, -499, -506, -536, -543, -585, -593, -704; T-4/FRC, -5/FRC, -83/SR, -158/FRT, -159/FRT, -171/FR, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TAB; TAJ; TAO; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBX; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCY; TDD; TDE; TDF; TDH; TDK; TDN; TEO; 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 HRC-50; Westinghouse Type MW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: Transmitter: Any four preset channels, and one tuneable channel (4 to 7) in frequency range 1.7 - 8.7.

Receiver: Any four preset channels in the frequency range 1.7 - 8.7 and continuously tuneable 0.19 - 0.51.

TYPE MODULATION: Am.

POWER REQUIREMENTS:

Dc Receiver: 6 v, (6-1/2 amp.)

TYPE OF SIGNAL: Transmitter: Cw, voice.

Dc Transmitter: 6 v, (42 amp.)

Receiver: Cw, voice.

Ac Receiver, Transmitter: 340 w, 110/220 v,
50/60 cyc, 1 phase, ac.

POWER OUTPUT: Transmitter: 25 w.

Receiver: 2 w.

PHYSICAL CHARACTERISTICS

Radio Set AN/VRC-4 measures 60 x 47 x 15 inches, net weight 186 pounds, volume 30 cu ft, 0.75 ship ton. Packed for domestic or export shipment: total weight 200 pounds, total volume 33 cu ft, 0.82 ship ton. Shipped in 5 packages both domestic and export.