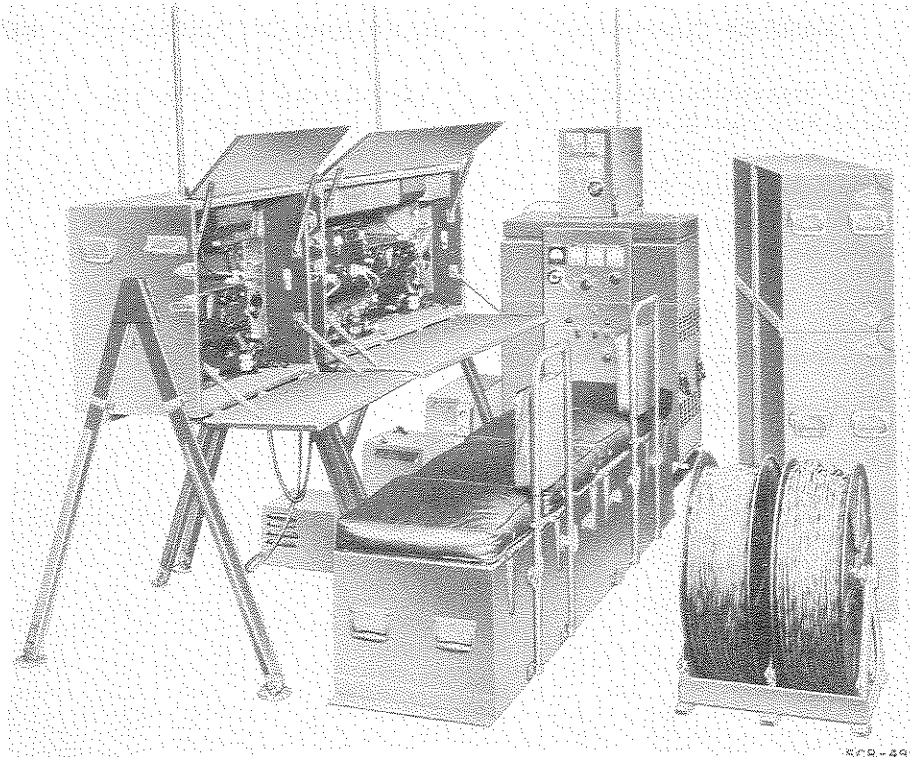


STATUS: Standard	AN/TRC-TYPE
CLASSIFICATION OF EQUIPMENT: Unclassified	
USING SERVICE: Army	SERVICE TYPE NUMBER: SCR-499
DATE OF THIS SHEET: 22 Jan 52	RADIO SET



Radio Set SCR-499 is the air transportable version of Radio Set SCR-399 and is a medium power, field radio station for a-m (voice, tone, and cw) communication to intermediate and long distances in semi-permanent or fixed station applications at division or higher headquarters.

This equipment consists of radio receiving and transmitting components plus associated power, and control accessories and is designed for installation in a sheltered or semipermanent location.

By means of standard remote control equipment this radio set can be operated from a distance of about two miles over a field telephone pair.

It can be arranged to operate in the 1-mc range by the addition of Frequency Conversion Kit MC-509.

It uses a long wire or doublet antenna and includes a 5 kw field power unit.

AN/TRC-TYPE	INSTRUCTION LITERATURE: TM 11-281
	CLASSIFICATION OF EQUIPMENT: Unclassified
SCR-499	USING SERVICE: Army
:SERVICE TYPE NUMBER	DATE OF THIS SHEET: 22 Jan 52
RADIO SET	

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter BC-610	32-5/8 x 21-3/8 x 39-7/8	452.0
1	Radio Receiver BC-312	10 x 9-1/16 x 19-1/16	58.0
1	Radio Receiver BC-342	10 x 9-1/16 x 19-1/16	61.5
1	Speech Amplifier BC-614	16 x 9-1/4 x 11	Not Available
1	Rectifier RA-63	13-1/2 x 9-1/2 x 7-1/2	29.25
1	Power Unit PE-95	75-1/2 x 28-1/2 x 39-1/2	1,545.0

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Airborne Signal Co; Army Security Agency.

INSTALLATION: Ground, transportable fixed station.

APPROXIMATE RANGE (IN MILES): 100 - 250.

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, -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; RDN; 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; TBQ; TBU; TBW; TBX; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCZ; TDE; TDF; TDH; TDN; TDQ; 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: 2 - 18 (in 3 bands)
Receiving: 1.5 - 18 (in 6 bands).

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, tone, or cw.

POWER OUTPUT: Cw: 400 w.
Voice: 300 w.

POWER REQUIREMENTS: Power Unit PE-95 and 12-v storage battery, or 2,500 w (minimum), 115-v, 60 cyc, ac commercial power.

PHYSICAL CHARACTERISTICS

Radio Set SCR-499 weighs 3,000 pounds net. Packed for domestic shipment: total weight 6,595 pounds. Packed for export shipment: total weight 10,025 pounds, total volume 895 cu ft, 22.4 ship tons.