

STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army, Navy

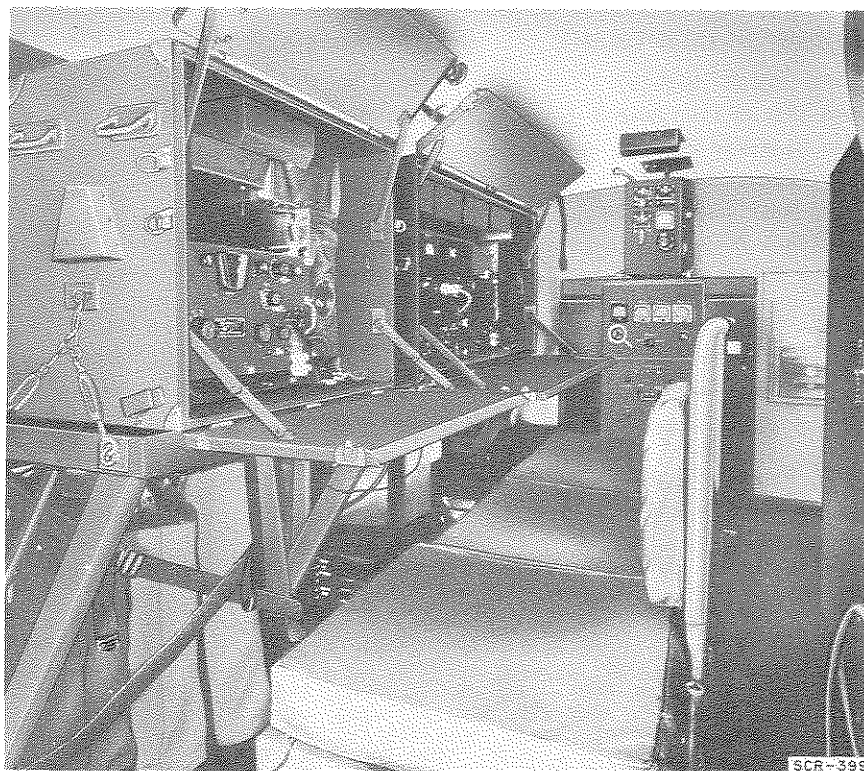
DATE OF THIS SHEET: 22 Jan 52

AN/MRC-TYPE

SERVICE TYPE NUMBER:

SCR-399

RADIO SET



Radio Set SCR-399 is a field, mobile, transmitting and receiving station used for a-m (voice, tone, or cw) communication, to medium or long distances, in the medium- and high-frequency ranges, at division and equivalent headquarters.

This equipment consists of transmitting, receiving, control, and related components installed within a field Shelter HO-17, which is carried on a 2-1/2-ton 6 x 6 cargo truck, and can operate on the move or at the halt.

It includes remote-control components by means of which the equipment can be operated from locations up to two miles away, over a telephone pair, in conjunction with Telephone EE-8.

It can be used in the 1-mc range by means of Frequency Conversion Kit MC-509, and uses a vehicular whip-type antenna system. At the halt, when the operating range must be extended, it can be used in conjunction with more elaborate arrays, such as doublet systems.

A trailer-drawn, 5 kw power unit is included to provide power for this set.

Radio Set SCR-499 is the air-transportable version of this equipment.

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INSTRUCTION LITERATURE: TM 11-281

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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Shelter HQ-17 (Mobile)	159 x 92 x 80	7,255.0
1	Radio Transmitter BC-610	32-5/8 x 21-3/8 x 39-7/8	452.0
1	Radio Receiver BC-342	10 x 9-1/16 x 18-1/16	61.5
1	Radio Receiver BC-312	10 x 9-1/16 x 18-1/16	58.0
1	Speech Amplifier BC-614	16 x 9-1/4 x 11	Not Available
1	Power Unit PE-95	75-1/2 x 28-1/2 x 38-1/2	1,545.0
1	Antenna Tuning Unit BC-939	Not Available	Not Available

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Engineer battalion, antiaircraft battalion, army security agency, signal operation company, signal operation battalion, signal-air, ground training company.

INSTALLATION: Ground, vehicular, operates on the move or at the halt. **APPROXIMATE RANGE (IN MILES):** 100 to 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, -90/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, -398/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, -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; TBW; TBX; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCZ; TDE; TDF; TDH; TDM; 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 960, 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: 2,500 w, 115 v, 60 cyc, ac (supplied by PE-95 or equivalent source) and 12-v storage battery.

PHYSICAL CHARACTERISTICS

Radio Set SCR-399 weighs 6,595 pounds net. Packed for export shipment: total weight 10,025 pounds, total volume 895 cu ft, 22.4 ship tons. Shipped in 2 packages both domestic and export.