

STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Restricted

USING SERVICE: Navy

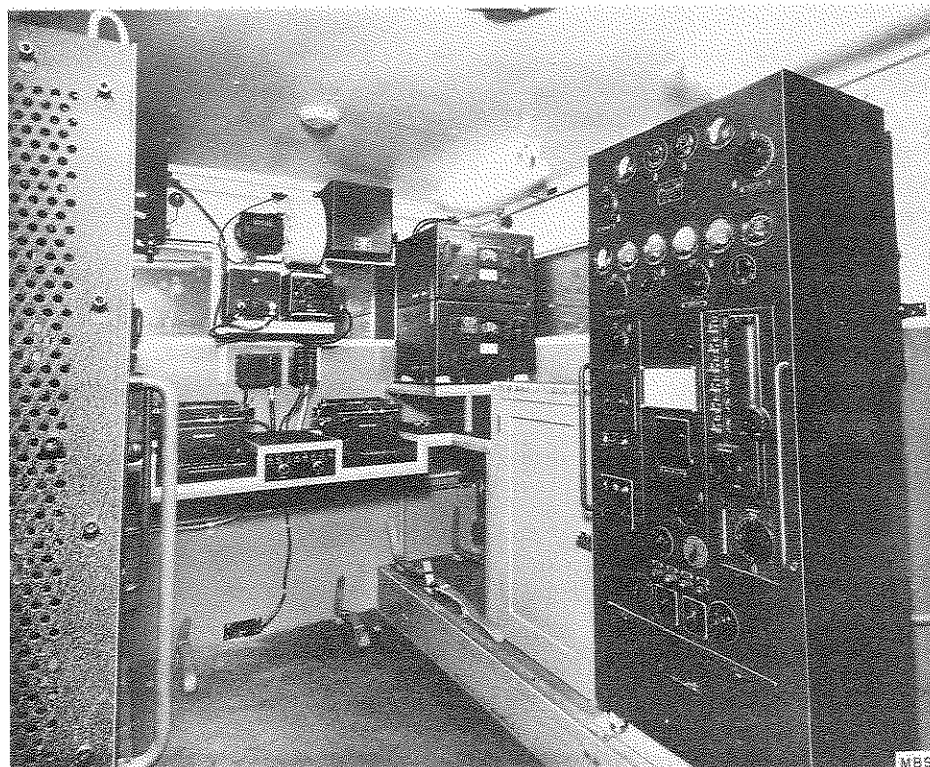
DATE OF THIS SHEET: 23 May 52

AN/MRC-TYPE

SERVICE TYPE NUMBER:

MBS

MOBILE RADIO TRANS & REC EQUIP



Mobile Radio Transmitting and Receiving Equipment MBS is a-m (cw, mcw, voice) equipment, operating as an air command center on shore for m-f, h-f, and v-h-f two-way communication with aircraft. It is used for fighter air defense, and general air-to-ground communications.

A 2-1/2 ton truck contains one Radio Transmitting and Receiving Equipment TCS (series), one Radio Transmitting Equipment TCK-4, three Radio Receiving Equipments RCH, Radio Receiver BC-639, and Radio Transmitter BC-640.

A trailer houses a gasoline-engine-driven generator set (PE-99, or equal).

Provision is made for remote control of the equipment.

AN/MRC-TYPE		INSTRUCTION LITERATURE: Not Available
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver BC-639-A	19 x 10-15/32 x 13-9/16	38.0
1	Radio Transmitter BC-640-B	72-3/8 x 21-1/4 x 20	601.5
1	Radio Transmitter COL-52245	11-11/16 x 13-3/4 x 11-13/16	41.75
1	Radio Transmitter CG-52299	52-5/16 x 25 x 18-1/4	290.0
3	Radio Receiver CZC-46209	13-7/8 x 21 x 20-13/16	106.0
1	Radio Receiver COL-46159	11-11/16 x 13-3/4 x 11-13/16	36.75

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore-based air command stations.

INSTALLATION: Ground, mobile.

APPROXIMATE RANGE (IN MILES): Medium.

CAN COMMUNICATE WITH: AN/ARC-1, -2, -3, -5, -8, -9, -18, -21, -25, -36; AN/ARR-15; AN/ART-13; AN/CRC-2; AN/CRT-3, -5; AN/FRC-7, -10; AN/FRR-3, -4, -7, -12, -28, -32; AN/FRT-4, -5, -6, -10, -15, -17, -19, -19; AN/GRC-9, -13, -26, -30; AN/GRR-2, -3, -5; AN/GRT-2; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -17, -19, -20; AN/SRC-3; AN/SRR-3, -8, -12, -13; AN/SRT-1, -3, -4; AN/TRC-7; AN/TRQ-1; AN/URC-4; AN/URR-10, -12, -21, -22, -23; AN/URT, -2, -3, -4, -7, -10; AN/VRC-1, -4; AN/VRR-2; BC-191, -312, -329, -339, -342, -348, -365, -401, -447, -610, -639, -640, -779, -794, -1004; OA-58/FRC, -59/FRC, -60A/FRT, -60B/FRT; MAR; MBS; MQ: R-62/PR, -80/PR, -96/SR, -129/U, -137/GR, -203/SR, -205/U, -206/PR, -209/FR, -209/FR, -210/U, -211/U, -213/SR, -274/FRR, -320/FRC, -388/URR; RAL; RAO; RAS; RBB; RBC; RBG; RBH; RBK; RBM; RBO; RBP; RBQ; RBS; RC-52, -103, -256, -257; RCF; RCG; RCH; RCK; RCO; RDE; RDM; REA; SCR-177, -188, -193, -244, -274, -281, -399, -499, -506, -522, -536, -542, -543, -573, -574, -575, -585, -593, -607, -616, -624, -641, -643, -644, -694, -704; T-4/FRC, -5/FRC, -83/SR, -159/FRT, -159/FRT, -171/FR, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TAB; TAJ; TAQ; TBA; TBC; TBL; TBM; TBN; TBO; TBU; TBW; TBX; TCB; TCC; TCE; TCG; TCH; TCK; TCO; TCP; TCS; TCY; TCZ; TDD; TDE; TDF; TDG; TDH; TDK; TDN; TDO; TDQ; TDT; TEB; TEC; TEF; AR-88 (RCA); ARC Type 12; 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 - 18.1 and 100 - 156.

Receiving: 0.08 - 0.56 and 1.9 - 24.0, and 100 - 156.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, cw, mcw.

POWER OUTPUT: Transmitters:

TCS: 40 w on cw,

20 w on voice.

TCK-4: 400 w, on cw,

100 w on voice.

BC-640: 50 w.

Receivers:

RCH: 100 mw for 600 ohm, or 20,000 ohm headset

2 w for 600 ohm loudspeaker

BC-639-A; 1 mw into 600 ohms

TCS: 2.5 w maximum.

POWER REQUIREMENTS: Self-contained, 100 - 120 v, 60 cyc, 1 phase and 3 phase, ac.

PHYSICAL CHARACTERISTICS

Information on Mobile Radio Transmitting and Receiving Equipment MBS not available.