

STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT:Unclassified

USING SERVICE: Navy

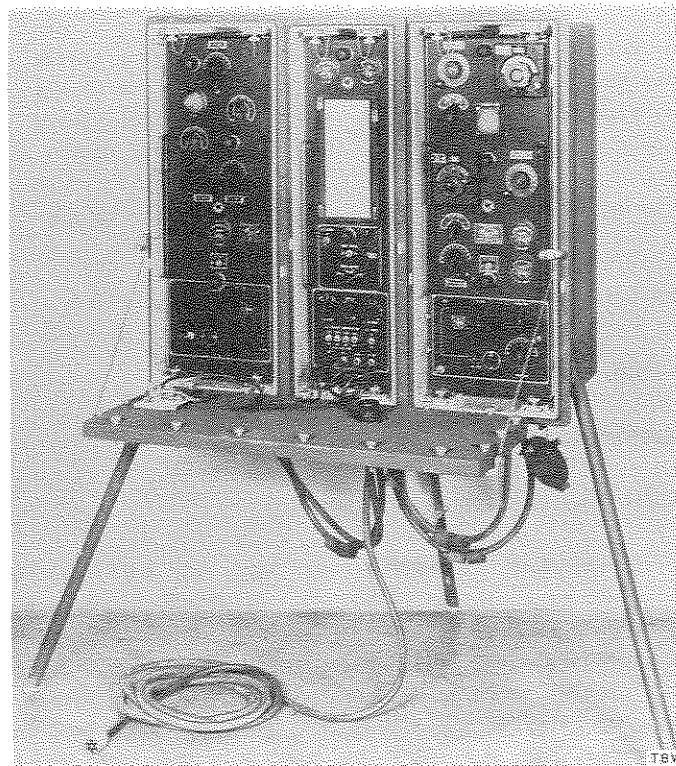
DATE OF THIS SHEET: 2 May 52

AN/TRT-TYPE

SERVICE TYPE NUMBER:

TBW, TBW-1

PORTABLE RADIO TRANSMITTING EQUIPMENT



Portable Radio Transmitting Equipments TBW and TBW-1 are general purpose equipments used primarily (in conjunction with suitable radio receiving units such as Portable Radio Receiving Equipment RBM (series), in establishing complete radio communication facilities at an advanced base.

These units are so designed that an entire system, including antennas, may be erected in less than one hour by a crew of six.

The antenna system consists of a two-wire l-f antenna; a single-wire h-f antenna, a two-wire counterpoise, and related masts, and guys.

The equipment is available with either a 115/230-v, 25-cyc motor generator set; a 115/230-v, 60-cyc motor generator set; or a gasoline engine generator set.

AN/TRT-TYPE		INSTRUCTION LITERATURE:
TBW, TBW-1		NavShips 900,246
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	IF Transmitter Unit CAY-52119	33-1/4 x 13-7/16 x 17-1/4	56.5
1	HF Transmitting Unit CAY-52120	33-1/4 x 13-7/16 x 17-1/4	86.5
1	Rectifier Modulator Unit CAY-20084	33-1/4 x 10-7/16 x 17-1/4	69.5
*	Motor Generator Set CDO-21648, -21652	14-1/2 x 32-1/2 x 20-7/8	296.0
*	Gasoline Engine and Generator Set CDO-73004	17-3/8 x 21-1/4 x 26-1/4	168.0

*Motor Generator set or gasoline engine generator set supplied.

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations or advanced bases.

INSTALLATION: Transportable, ground.

APPROXIMATE RANGE (IN MILES): Short to medium.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/FRC-10; AN/FRR-3, -4, -12, -28, -32; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -19, -20; AN/SRC-3; AN/SRR-3, -8, -11, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23; AN/VRC-1, -4; BC-312, -314, -342, -344, -348, -453, -779, -794, -1004; MBS; MQ; OA-58/FRC, -59/FRC; R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/U, -206/PR, -208/FR, -209/FR, -210/U, -211/U, -212/SR, -213/SR, -215/SR, -247/URR, -274/FRR, -320/FRC, -388/URR; RAK; RAL; RAO; RAS; RBA; RBB; RBC; RBG; RBH; RBL; RBM; RBO; RBP; RBS; RCF; RCG; RCH; RDE; RDF; RDM; REA; SCR-177, -188, -193, -244, -274, -399, -499, -506, -536, -543, -585, -593, -694, -704; TBO; TBX; TCH; TCO; TCP; TCS; ARC Type 12; Collins 18S-4 (AF Model); Collins 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; National HRO-50.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 0.35 - 1.0 and 3.0 - 18.1.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, mcw, voice.

POWER OUTPUT: Cw and mcw: 100 w.
Voice: 25 w.

POWER REQUIREMENTS: 2.19 kw, 115/230 v ($\pm 10\%$) 25 cyc, 1 phase, ac; or
2.19 kw, 115/230 v ($\pm 10\%$) 60 cyc, 1 phase, ac.

PHYSICAL CHARACTERISTICS

Portable Radio Transmitting Equipments TBW, TBW-1 measure 33-1/4 x 37-5/16 x 17-1/4 inches, net weight 595.5 pounds. Packed for domestic shipment: total weight 1,545 pounds, total volume 86.11 cu ft, 21.5 ship tons. Shipped in 8 packages.