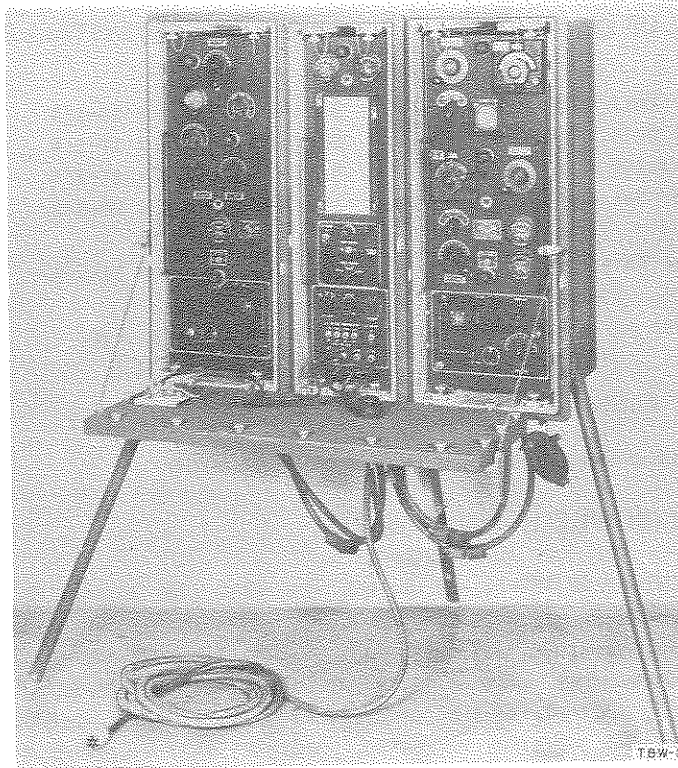


STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 2 May 52

AN/TRT-TYPE

SERVICE TYPE NUMBER: TBW-2 through -5
PORTABLE RADIO TRANSMITTING EQUIPMENT



Portable Radio Transmitting Equipments TBW-2 through -5 are transportable general purpose radio transmitting equipments used as complete advanced-base radio communication stations, when used in conjunction with suitable receiving equipment such as Portable Radio Receiving Equipment RBM (series).

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.

TBW-2 is available also with a 230-v d-c motor generator set.

AN/TRT-TYPE	INSTRUCTION LITERATURE: NavShips 900 247
	CLASSIFICATION OF EQUIPMENT: Unclassified
TBW-2 through -5 :SERVICE TYPE NUMBER	USING SERVICE : Navy
PORTABLE RADIO TRANSMITTING EQUIPMENT	DATE OF THIS SHEET : 2 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	IF Transmitter Unit CAY-52238	33-1/4 x 13-5/8 x 17-1/4	76.5
1	HF Transmitter Unit CAY-52239	33-1/4 x 13-5/8 x 17-1/4	84.0
1	Rectifier Modulator Unit CAY-20084	33-1/4 x 13-5/8 x 17-1/4	71.0
*	Motor Generator Set CDO-21652, -21648, -21737	14-1/2 x 32-1/2 x 20-7/8	296.0
*	Gasoline Engine Generator Set CDO-73004, -73004-A, -73004-B	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; RBQ; 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: TBW-2 through -5: 2.19 kw, 115/230 v, 25 cyc, ac.
TBW-2 through -5: 2.19 kw, 115/230 v, 60 cyc, ac.
TBW-2 only: 2.19 kw, 230 v dc.

PHYSICAL CHARACTERISTICS

Portable Radio Transmitting Equipments TBW-2 through -5 measure 33-1/4 x 37-7/8 x 17-1/4 inches, net weight 578 pounds. Packed for domestic shipment: total weight 1,392 pounds, total volume 87.26 cu ft, 2.18 ship tons. Shipped in 4 packages.