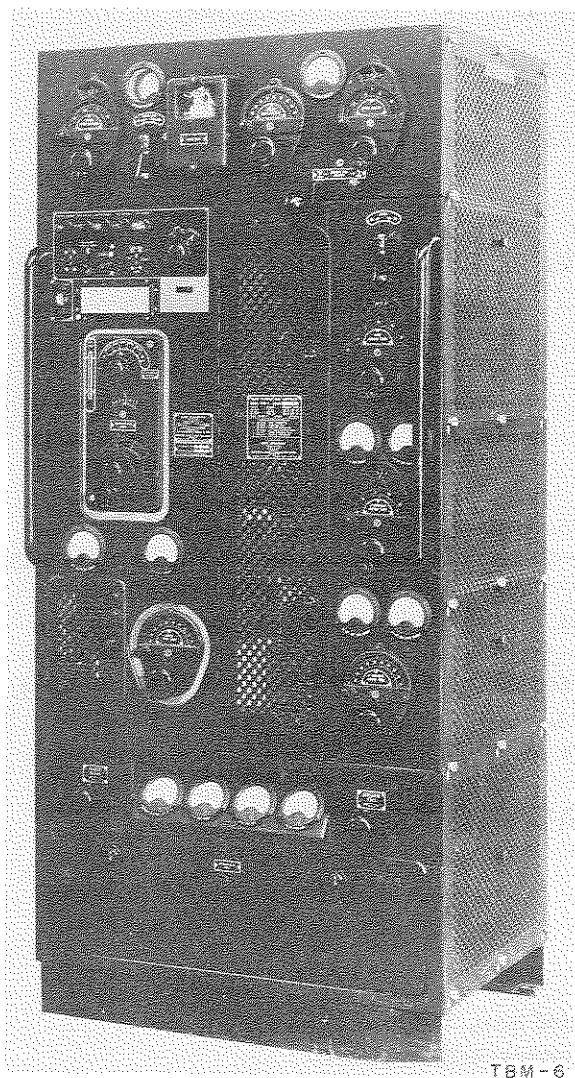


STATUS: Limited Standard
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Navy
 DATE OF THIS SHEET: 8 May 52

AN/FRT-TYPE

SERVICE TYPE NUMBER: TBM-6, -10
 RADIO TRANSMITTING EQUIPMENT



TBM-6

Radio Transmitting Equipments TBM-6 and TBM-10 are a-m (cw, mcw, and voice) radio transmitters for use at shore stations in h-f communication. Vacuum tube keying speeds up to 500 wpm on cw and relay keying speeds up to 100 wpm on cw and 50 wpm on mcw are possible. Provisions are made for reduction from full- to low-power operation at 75 w for radiotelegraph operation.

These transmitters use master oscillator frequency control and are continuously variable over their frequency range.

They may be controlled from local or remote locations. For c-w and m-c-w operation, remote control is by landline; while "voice" transmission may be remotely controlled by the use of radio-phone units or by means of a voice-operated relay located in the modulator.

A power transfer panel is used in TBM-6 for manually switching the transmitter input from one motor generator set to the other. (The two motor starters used obtain operating power from the transmitter control circuits.)

TBM-10 uses a rectifier power unit instead of a motor generator.

The type of components used by either TBM equipment depends upon the power source available.

AN/FRT-TYPE		INSTRUCTION LITERATURE: NavShips 900 386, 900 387
TBM-6, -10	SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO TRANSMITTING EQUIPMENT		USING SERVICE: Navy DATE OF THIS SHEET: 8 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter CAY-52170, -52169	72 x 32 x 24	825
1	Modulator Unit CAY-50065, -50065A	72 x 18 x 24	380
1	Rectifier Power Unit CAY-20228 (TBM-10 only)	72 x 32 x 24	1,000
1	Land Line Control Unit CAY-23216, -23217	20-11/16 x 20-7/16 x 10-3/8	81
2	Motor Generator Unit CAY-21521, -21522 (TBM-6 only).	21-3/4 x 78-1/2 x 20-1/2	1,250 each

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations.

INSTALLATION: Ground.

APPROXIMATE RANGE (IN MILES): Long.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -9, -9, -21, -25, -26; AN/ARR-15; AN/FRC-10;
 AN/FRR-3, -4, -7, -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/SRR-3, -8, -12, -13; AN/TRQ-1; AN/URR-10, 22, -23;
 AN/VRC-1, -4; AN/VRR-2; BC-312, -342, -348, -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, -213/SR, -274/FRR, -320/FRC, -388/URR; RAL; RAO; RAS; RBB; RBC; RBG;
 RBH; RBM; RBO; RBP; RBS; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -188, -193, -244, -274,
 -281, -399, -499, -506, -536, -543, -585, -593, -694, -704; TBO; TBX; TCH; TCP; TCS;
 AR-88 (RCA); 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: 2.0 - 18.1.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, mcw, voice.

POWER OUTPUT: 2.0 to 18.1 mc: cw, 500 w; voice and mcw, 350 w.
 2.0 to 9.05 mc (power amplifier disconnected); cw, 75 w.

POWER REQUIREMENTS: TBM-6: 5.1 kw, 220 v, 25/60 cyc, 3 phase, ac.
 TBM-10: 5.2 kw (5.8 kva), 220/440 v, 50/60 cyc, 3 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Transmitting Equipment TBM-6 or TBM-10 weighs 4,219 pounds net. Packed for domestic
 shipment: total weight 5,899 pounds, total volume 224 cu ft, 5.6 ship tons.