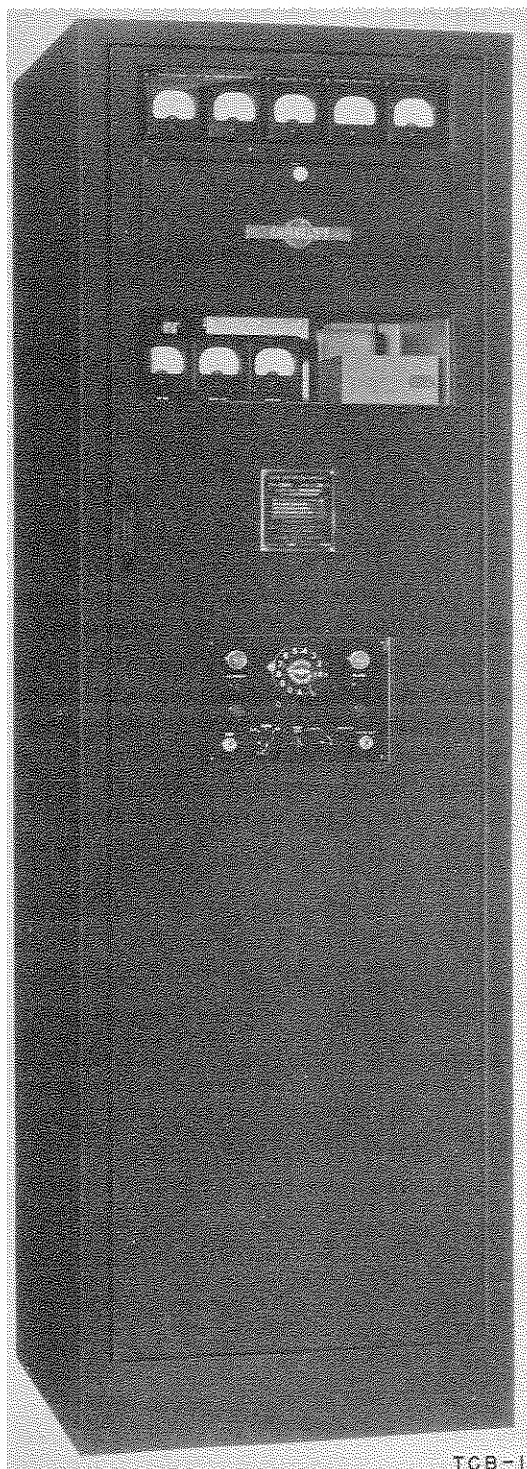


STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 9 May 52

AN/FRT-TYPE

SERVICE TYPE NUMBER: TCB-1, TCB-2
RADIO TELEPHONE & TELEGRAPH TRANS EQUIP



TCB-1

Radio Telephone and Telegraph Transmitting Equipments TCB-1 and TCB-2 are designed for general telegraph and voice transmission at low power within the high-frequency range. An autotune system provides rapid automatic selection of ten preset crystal-controlled frequencies from a remote location, or at a local station control unit.

TCB-1 and TCB-2 are similar, except that TCB-1 can operate on either 60 cyc or 25 cyc power (by use of alternate major components).

A handset is supplied for the local operating position.

The operator's desk set includes a telephone type dial control, and a telegraph key.

A companion receiver can be connected to the antenna transfer panel to provide complete communication facilities.

Circuits, relay switches, and terminals are incorporated in the operator's control unit which mute the receiver when transmitter carrier is switched on, or permit listening to the receiver when transmitter carrier is switched off.

AN/FRT-TYPE		INSTRUCTION LITERATURE: NavShips 95303, 95304
TCB-1, TCB-2		CLASSIFICATION OF EQUIPMENT: Unclassified
:SERVICE TYPE NUMBER		USING SERVICE: Navy
RADIO TELEPHONE & TELEGRAPH TRANS EQUIP		DATE OF THIS SHEET: 9 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Transmitter 16E-5, 16E-6	78 x 24 x 24	952.0
1	Operator's Control Unit 117G-4, 117G-5	10 x 19 x 11-1/4	53.0
1	Desk Set 223G-3, 223G-6	6 x 9 x 7-1/2	5.75
1	Handset 69H-5	Not Available	Not Available
1	Telegraph Key 67A-3	" "	" "

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations.

INSTALLATION: Ground.

APPROXIMATE RANGE (IN MILES): Short, 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/HRC-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; BC-312, -314, -342, -344, -348, -779, -794, -1004; HBS; HQ; 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; RDE; RDM; REA; SCR-177, -188, -193, -244, -274,
 -399, -499, -506, -536, -543, -585, -593, -694, -704; TBO; TBX; TCH; TC0; 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: 1.5 - 15.0 on 10 pretuned crystal-controlled carrier frequencies.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, mcw, voice.

POWER OUTPUT: 75 w, into 600 ohm resistive load.

POWER REQUIREMENTS: TCB-1: 900 w, 110 v, 25/60 cyc, 1 phase, ac.
 TCB-2: 900 w, 110 v, 60 cyc, 1 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Telephone and Telegraph Transmitting Equipments TCB-1 and TCB-2 measure 78 x 24 x 24 inches, net weight 1,011 pounds, volume 26 cu ft, 0.6 ship ton.