

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

AN/FRT-TYPE

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



Radio Telephone and Telegraph Transmitting Equipments TCC and TCC-2 are designed to transmit radiotelegraph or radiotelephone signals at medium power in the 2- to 20-mc frequency range point-to-point, ground-to-air, and transoceanic communication. Ten preset, crystal-controlled channels are available and can be selected from a remote position.

TCC and TCC-2 are complete h-f transmitters and include all units necessary for either local or remote control.

By use of the operator's control unit and a four-wire control line, the transmitter can be dial-tuned, started, or stopped and the r-f carrier can be turned on, keyed, or modulated; all operations being controlled from the remote position.

The control units includes an audio input circuit and a muting relay switch which permit operation of a receiver in conjunction with this transmitting equipment.

Telephone intercommunication between the local and remote positions is provided.

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

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Autotune RF Bay 1007-6	78 x 24 x 24	990.0
1	Power and Modulator Bay 1006-6	78 x 24 x 24	580.0
1	Station Control Unit 1764-2	11-1/2 x 12-1/4 x 6-3/8	12.0
1	Operator's Control Unit 177E-2	8-3/4 x 19 x 10	38.0
1	Operator's Desk Set 223F-4	6 x 9 x 7-1/2	5.75
1	Telegraph Key, Cord and Plug 274N-7	Not Available	Not Available

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations.

INSTALLATION: Ground.

APPROXIMATE RANGE (IN MILES): Extended.

CAN COMMUNICATE WITH: AN/ARC-2, -5 -8, -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 - 20.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, mcw, voice.

POWER OUTPUT: Cw: 1 kw.

Mcw: 600 w.

POWER REQUIREMENTS: Transmitter: 4.50 w, 220 v, 50/60 cyc, 3 phase, ac.

Operator's and station control units: 110 v, 60 cyc, 1 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Telephone and Telegraph Transmitting Equipment TCC or TCC-2 measures 78 x 48 x 24 inches, net weight 1,626 pounds, volume 52 cu ft, 1.3 ship tons.