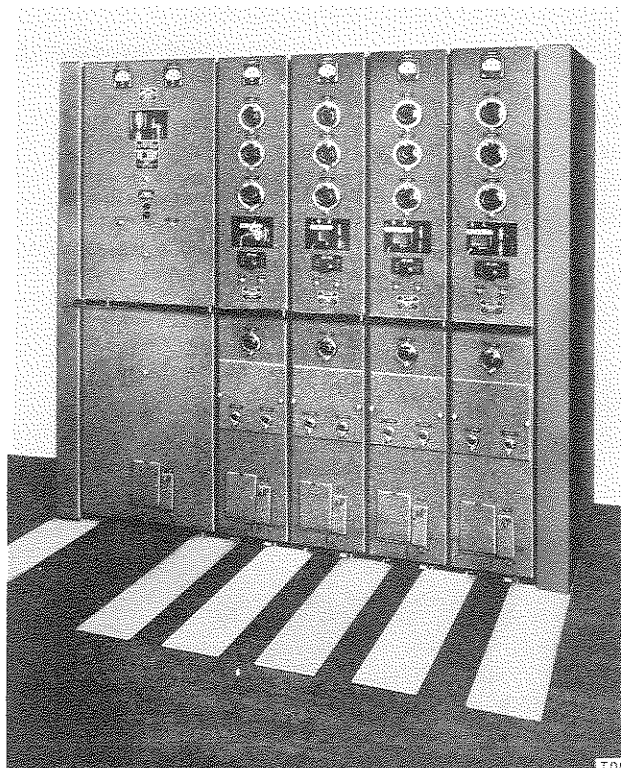


STATUS: Limited Standard CLASSIFICATION OF EQUIPMENT: Unclassified USING SERVICE: Navy DATE OF THIS SHEET: 23 May 52	AN/FRT-TYPE	
	SERVICE TYPE NUMBER:	TDN, TDN-4
	RADIO TRANSMITTING EQUIPMENT	



Radio Transmitting Equipments TDN and TDN-4 are single-frequency, a-m (cw and voice) radio transmitters for use at aircraft ground stations or for general shore station communication.

These transmitters use separate r-f units for different channels, making possible not only simultaneous operation on several frequencies but also rapid frequency change without using complicated r-f switching.

Each r-f unit is a complete telegraph transmitter, lacking only the power supply to operate independently. Each r-f unit operates with a separate antenna.

The audio amplifier unit is a complete a-f equipment which provides voice transmission throughout the frequency range of the transmitting equipment.

TDN has crystal oscillator control on six preset channels; TDN-4 has master oscillator control and has been modified to facilitate connection of external frequency-shift keying apparatus.

Remote control of both equipments is usually satisfactory at distances up to 1/2 mile, and provision is made for the connection of telegraph keys.

AN/FRT-TYPE		INSTRUCTION LITERATURE: Not Available
:SERVICE TYPE NUMBER		CLASSIFICATION OF EQUIPMENT: Unclassified
TDN, TDN-4		USING SERVICE : Navy
RADIO TRANSMITTING EQUIPMENT		DATE OF THIS SHEET : 23 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
2	Radio Transmitter CFT-52349	72 x 11-1/4 x 34	Not Available
2	Radio Transmitter CFT-52350	72 x 11-1/4 x 34	" "
1	Radio Transmitter CFT-52351	72 x 11-1/4 x 34	" "
1	Local Control Unit CFT-23357	7 x 18-3/4 x 3-1/4	" "
1	Rectifier Power Unit CFT-20208	71-3/4 x 22-1/8 x 34-1/4	" "
1	Audio Amplifier Unit, Fed. Tel. Type 123-A	Not Available	" "

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Aircraft ground stations.

INSTALLATION: Ground, fixed.

APPROXIMATE RANGE (IN MILES): Medium.

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, in 3 bands.

Band 1: 2.0 — 5.16

Band 2: 5.16 — 13.3

Band 3: 13.3 — 20.0.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, voice.

POWER OUTPUT: 3 kw.

POWER REQUIREMENTS: 20 kw, 220 v, 50/60 cyc, 3 phase (4 r-f units operating).

PHYSICAL CHARACTERISTICS

Radio Transmitting Equipment TDN or TDN-4 measures 72 x 66-7/8 x 34-1/4 inches.