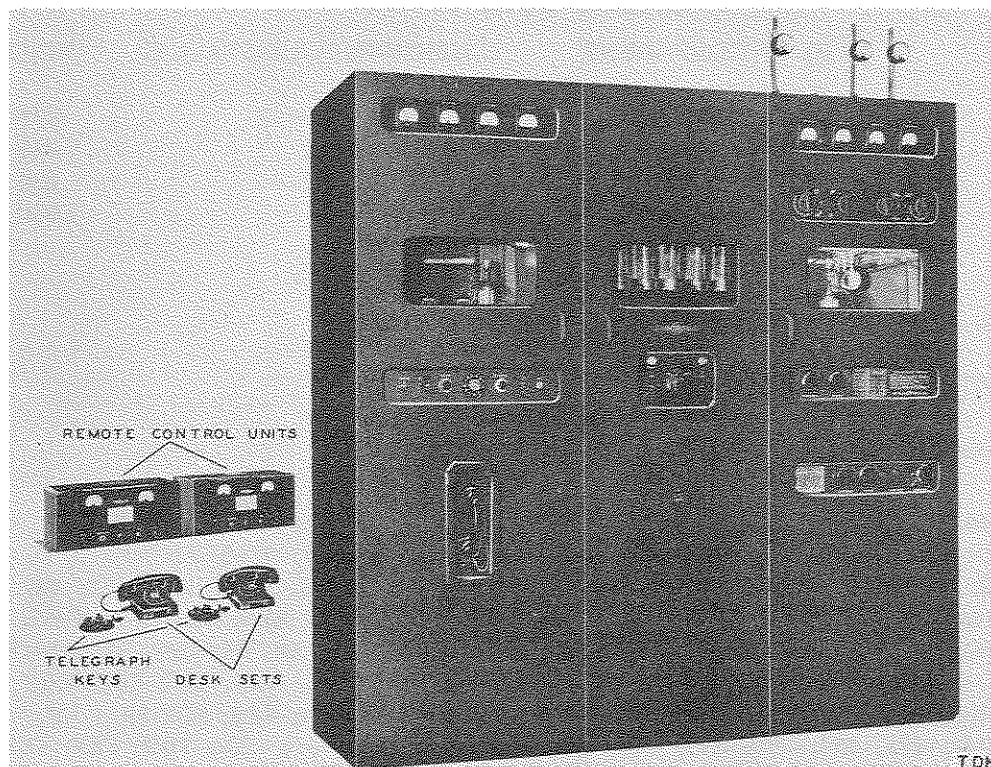


STATUS: Limited Standard	<b>AN/FRT-TYPE</b>
CLASSIFICATION OF EQUIPMENT: Unclassified	
USING SERVICE: Navy	
DATE OF THIS SHEET: 9 May 52	
SERVICE TYPE NUMBER: TDH, TDH-2, -3, -4	
RADIO TRANSMITTING EQUIPMENT	



Radio Transmitting Equipments TDH and TDH-2 through -4 are designed for general purpose, high-power, h-f point-to-point communication, aeronautical ground station use, and other services requiring operation on a number of readily selected frequencies. An autotune system is used for automatic selection of any one of 11 preset master oscillator controlled channels. Selection is made locally or at one of the remote control stations, either of which provides for complete control of the transmitter. Manual tuning over the entire frequency range is possible.

The remote control units are located at any distance where the total line loss does not exceed 25 db and may be mounted in standard relay racks.

Vacuum tube keying speeds up to 200 wpm on cw and 60 wpm on mcw are obtainable.

The equipment is designed for use with an unbalanced antenna or transmission line of 70-600-ohm impedance.

<b>AN/FRT-TYPE</b>		INSTRUCTION LITERATURE: NavShips 95331, 95332, 900,904, 900,798
TDH, TDH-2,3, -4	:SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO TRANSMITTING EQUIPMENT		USING SERVICE : Navy DATE OF THIS SHEET : 9 May 52

**MAJOR COMPONENTS**

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter COL-52291,	95-5/8 x 31 x 28-1/2	775
	-52343	84 x 31 x 28-1/2	749
1	Modulator COL-50129	84 x 31 x 28-1/2	830
1	Rectifier Power Unit COL-20196	84 x 31 x 25	1,350

**OPERATIONAL CHARACTERISTICS**

**TACTICAL USE:** Shore stations and aeronautical 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:** 2.0 - 18.1.

**TYPE MODULATION:** Am.

**TYPE OF SIGNAL:** Voice, cw, mcw.

**POWER OUTPUT:** 2 to 12 mc, 3,000 w.  
12 to 18.1 mc, 2,500 w.

**POWER REQUIREMENTS:** Transmitter: 9.92 kw, 230 v, 50/60 cyc, 3 phase.  
Remote control unit: 52 w, 115 v, 50/60 cyc, 1 phase.

**PHYSICAL CHARACTERISTICS**

Radio Transmitting Equipment TDH or TDH-2 through -4 measures 95-5/8 x 82-1/16 x 31 inches, net weight 3,325 pounds. Packed for domestic shipment: total weight 5,716 pounds.