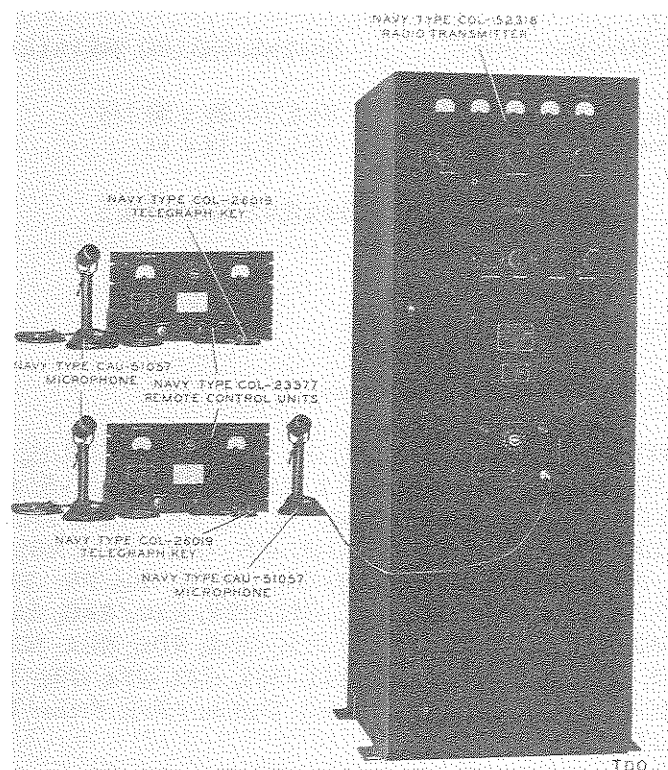


STATUS: Limited Standard	AN/FRT-TYPE
CLASSIFICATION OF EQUIPMENT: Unclassified	
USING SERVICE: Navy	
DATE OF THIS SHEET: 9 May 52	
	SERVICE TYPE NUMBER: TDO
	RADIO TRANSMITTING EQUIPMENT



Radio Transmitting Equipment TDO is used for medium-power, m-f and h-f point-to-point communication. It uses an autotune system for instantaneous selection of any one of 11 preset channels. Channel selection is made by means of a telephone dial on the transmitter panel, or at the remote control unit.

The remote control units may be used for complete control of the equipment at any distance where the total line loss does not exceed 25 db.

An electronic carrier control is provided which permits keying speeds up to several hundred wpm for c-w operation and 60 wpm for m-c-w operation.

A master oscillator is used for frequency control.

The equipment is designed to operate into an unbalanced 70 to 600 ohm antenna or line.

AN/FRT-TYPE		INSTRUCTION LITERATURE: NavShips 95336
TDO		CLASSIFICATION OF EQUIPMENT: Unclassified
:SERVICE TYPE NUMBER		USING SERVICE: Navy
RADIO TRANSMITTING EQUIPMENT		DATE OF THIS SHEET: 9 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter COL-52318	80-5/8 x 28 x 30-1/4	1,140
2	Remote Control Unit COL-23377	10-1/2 x 19 x 11	30

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations.

INSTALLATION: Ground.

APPROXIMATE RANGE (IN MILES): Medium to long.

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, -80PR, -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: Voice, mcw: 250 w.
Cw: 400 w.

POWER REQUIREMENTS: Transmitter: 1570 w, 115-230 v, 50/60 cyc, 1 phase, ac.
Remote control unit: 25w, 115 v, 50/60 cyc 1 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Transmitting Equipment TDO measures 80-5/8 x 28 x 30-1/4 inches, net weight 1,365 pounds.
Packed for domestic shipment: total weight 2,362 pounds, total volume 102.6 cu ft, 2.5 ship tons.
Shipped in 12 packages.