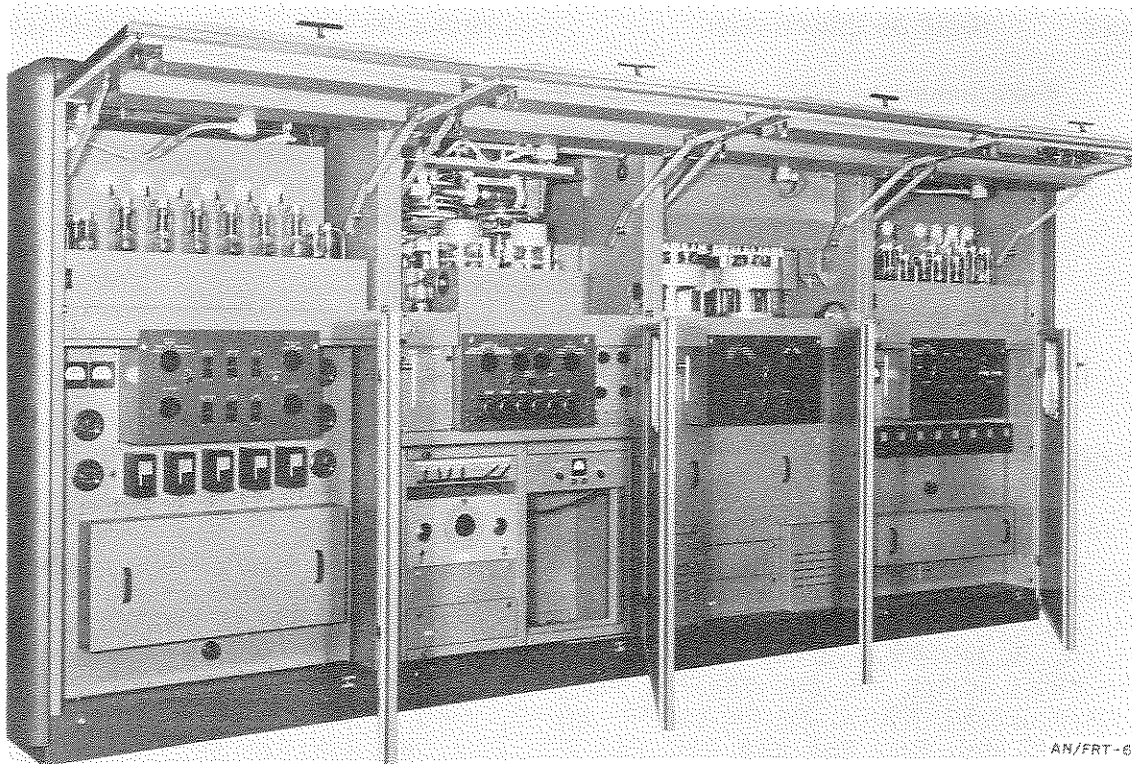


STATUS: Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 8 Apr 52

AN/FRT-6

RADIO TRANSMITTING SET



Radio Transmitting Sets AN/FRT-6 and AN/FRT-6A are long-range, h-f transmitters having an output power of 40 kw for on-off radiotelegraph, frequency-shift telegraph or teletypewriter, and facsimile transmission. They are capable of keying speeds up to 400 wpm on either c-w or frequency-shift emission.

These sets provide 10 preset, crystal-controlled channels and have a stabilized variable frequency oscillator. They are designed for optimum operation into an antenna with an impedance of 600 ohms.

The transmitters may be operated without using the main r-f amplifier section of the equipment to provide a 15-kw output (instead of the normal 40-kw) for operation to medium distances or for emergency use.

The power tubes are forced-air cooled. Power for the blowers is obtained from a 230-v transmitter supply.

AN/FRT-6	INSTRUCTION LITERATURE: NavShips 91263
	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO TRANSMITTING SET	USING SERVICE: Navy
	DATE OF THIS SHEET: 8 Apr 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter T-225/FRT-5, T-225A/FRT-5	91-1/2 x 46-5/8 x 37-1/2	2,108
1	Power Supply PP-490/FRT-5, PP-490A/FRT-5	91-1/2 x 46-5/8 x 37-1/2	1,742
1	RF Amplifier AM-350/FRT-6, AM-350A/FRT-6	91-1/2 x 46-5/8 x 54-1/2	2,550
1	Power Supply PP-515/FRT-6, PP-515A/FRT-6	91-1/2 x 46-5/8 x 37-1/2	2,030

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations.

INSTALLATION: Ground, fixed.

APPROXIMATE RANGE (IN MILES): Long.

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-3, -4, -9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -22; AN/PRC-7, -8, -19, -20; AN/SRR-3, -8, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23; AN/VRC-1, -5, -8, -13, -16, -20, AN/VRQ-1; BC-312, -342, -348, -779, -794, -1004; MBS; OA-58/FRC, -59/FRC; R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/SR, -206/PR, -208/FR, -209/FR, -210/U, -211/U, -213/U, -274/FRR, -320/FRR, -288/URR; RAL; RAO; RAS; RBB; RBC; RBG; RBH; RBM; RBO; RBP; RBS; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -188, -193, -244, -274-N, -293, -294, -298, -399, -499, -506, -508, -509, -510, -528, -536, -543, -585, -593, -694, -704; TBK; TBO; TCH; TCS; AR-88 (RCA); Collins 18S-4 (AF Model), Collins 75A-2; Hammarlund SP-600-JX; National HRO-50.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 4 - 26. 10 preset channels or continuously variable tuning.

TYPE MODULATION: Am, fm.

TYPE OF SIGNAL: Cw, frequency shift.

POWER OUTPUT: 40 kw for normal operation, 15 kw when operating without final r-f amplifier unit.

POWER REQUIREMENTS: 86 kw, 207-253 v, 60 cyc, 3 phase ac, for normal operation.
27.5 kw, 207-253 v, 60 cyc, 3 phase ac for low power operation.
115 v, 60 cyc, 1 phase ac for the crystal oven.

PHYSICAL CHARACTERISTICS

Each Radio Transmitting Set AN/FRT-6 and AN/FRT-6A measures 91-1/2 x 186-1/2 x 54-1/2 inches, net weight 12,641 pounds, volume 513.2 cu ft, 12.8 ship tons. Packed for domestic shipment: total weight 17,892 pounds, total volume 959.8 cu ft, 24 ship tons. Shipped in 29 packages.