

STATUS: Standard
CLASSIFICATION OF EQUIPMENT: Restricted
USING SERVICE: Navy
DATE OF THIS SHEET: 12 Jun 52

<b>AN/FRT-10</b>
RADIO TRANSMITTING SET

NO PHOTOGRAPH AVAILABLE

Radio Transmitting Set AN/FRT-10 is l-f, high-power, a-m (cw, frequency-shift keying facsimile) transmitting equipment used for long-range shore-to-ship, point-to-point, or broadcast radiotelegraph or radioteletype transmission.

This equipment consists of transmitter and power supply installations.

The transmitter installation has a dual 250-kw transmitter, antenna system (less towers), operator's console, and monitoring equipment.

Seven Diesel engine generators, power control and distribution panels, oil storage tanks, and fuel transfer pumps comprise the power supply installation.

The equipment is so proportioned that it can be transported by air.

<b>AN/FRT-10</b>	INSTRUCTION LITERATURE: Not available
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### MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
2	Radio Transmitter T-281/FRT-10	84 x 48-1/4 x 54	2,300
2	Radio Frequency Amplifier AM-513/FRT-10	84 x 48-1/4 x 54-1/4	Not Available
2	Power Supply PP-657/FRT-10	84 x 48-1/4 x 54	1,800
2	Power Supply PP-658/FRT-10	84 x 48-1/4 x 54	Not Available
1	Console C-856/FRT-10	44-1/16 x 36-9/32 x 65-13/16	" "
2	Radio Frequency Tuner TN-189/FRT-10	84 x 48 x 72-1/4	" "

### OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations.

INSTALLATION: Ground, fixed.

APPROXIMATE RANGE (IN MILES): Long.

CAN COMMUNICATE WITH: AN/ARC-5,-8; AN/GRR-3; AN/MRC-20; AN/SRR-3, -11, -12; AN/TRQ-1; AN/VRC-4; BC-344, -348, -779; MBS; R-96/SR, -203/SR, -206/PR, -210/U, -211/U, -212/SR, -215/SR, -247/URR; RAK; RAS; RBA; RBL; RBM; RCH; RDF; SCR-274; -614; ARC-Type 12; Fisher TS 25-3; National HRO-50.

### TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 0.1 - 0.2.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, frequency-shift keying facsimile.

POWER OUTPUT: 500 kw.

POWER REQUIREMENTS: 825 kw (total power) obtained from three Diesel engine driven generators as follows: 1 - 480 v, 60 cyc, 3 phase.  
2 - 4,160 v, 60 cyc, 3 phase.

### PHYSICAL CHARACTERISTICS

Information on Radio Transmitting Set AN/FRT-10 not available.