

STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

DATE OF THIS SHEET: 31 Jan 52

AN/FRT-TYPE

AN/COMP TYPE NUMBER:

T-158/FRT

RADIO TRANSMITTER



T-158/FRT

Radio Transmitter T-158/FRT is crystal-controlled, a-m (voice, cw, mcw, and frequency shift keying) medium-power, transmitting equipment. It is used for fixed plant, ground-to-air, and point-to-point long range communication in the medium- and high-frequency range.

This equipment consists of a radio transmitter, exciter unit, and coil set inclosed in a floor-type cabinet and includes a radioteletype modification kit. The rectifier and modulator are not supplied as part of this equipment.

It is usually operated at a distant site by means of remote control equipment, and can use any 600-ohm antenna.

Requires 15 kva of 220-v ac.

AN/FRT-TYPE		INSTRUCTION LITERATURE: TM 11-2671
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter T-158/FRT	73-3/4 x 26-1/4 x 12-1/4	365
1	Exciter Unit	8-3/4 x 9-1/2 x 17-1/4	27
1	Coil Set	Not Available	6.7
1	Teletype Modification Kit	" "	6.0

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Fixed plant.

INSTALLATION: Fixed station.

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, -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, -90/PR, -96/SR,
 -129/U, -203/SR, -205/U, -206/PR, -209/FR, -209/FR, -210/U, -211/U, -213/SR, -274/FRR, -320/FRC,
 -389/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 19S-4 (AF Model); Collins 75A-2; Fisher TS 25-3;
 Hammarlund SP-600-JX; National HRO-50.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 2 - 18.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, mcw, frequency shift keying, and voice.

POWER OUTPUT: 2,500 w.

POWER REQUIREMENTS: 15 kva, 220 v, 50/60 cye, 3 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Transmitter T-158/FRT packed for domestic shipment: total weight 732 pounds, total volume
 51.6 cu ft, 1.25 ship tons.