

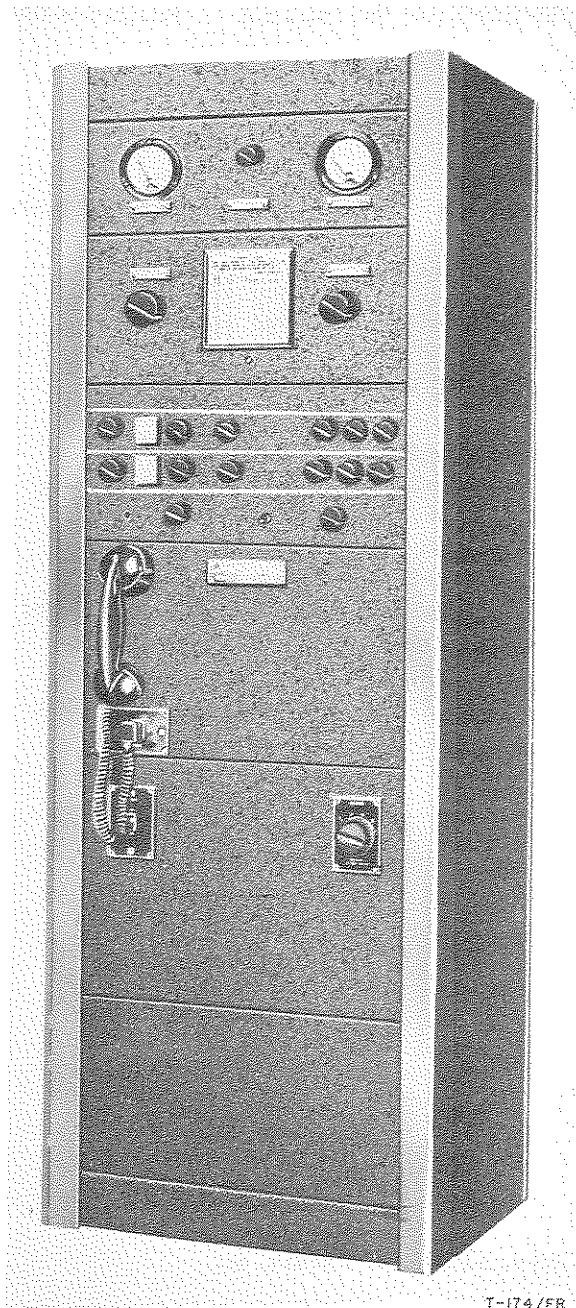
STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Army
DATE OF THIS SHEET: 31 Jan 52

AN/FRT-TYPE

AN/COMP TYPE NUMBER:

T-174/FR

RADIO TRANSMITTER



T-174/FR

Radio Transmitter T-174/FR is a crystal-controlled, medium-power, long range, a-m (voice, cw, and frequency shift keying) four-band, transmitting equipment for fixed plant ground-to-air communication applications in the high frequency range.

This equipment consists of r-f power amplifier, driver, audio amplifier, power and related apparatus rack-and-panel mounted in a floor type steel cabinet.

It has provision for two-tone telegraph, and telephone communication and operates on two-preset frequency channels. It can be operated at a distant location by means of appropriate remote control equipment.

A rhombic antenna, or a doublet type array which is fed by a 70 to 600-ohm balanced transmission line, is used.

Operates from a source of 200 to 250 -v ac.

AN/FRT-TYPE		INSTRUCTION LITERATURE: TM 11-818
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QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter T-174/FR	76 x 27 x 25	550
1	Fan and housing	27 x 21 x 14	64
	Transformers	18 x 12 x 19	192
	Relays	26 x 20 x 26	85
	Power amplifier plate coils	Not Available	Not Available

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, -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; 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, -198, -193, -244, -274, -399, -499, -506, -536, -543, -585, -593, -694, -704; TBO; TBX; TCH; TCO; TCP; TCS; AR-88 (RCA); Collins 18S-4 (AF Model); Collins 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; National HRO-50.

FREQUENCY RANGE IN MEGACYCLES: 3 - 13 in 4 bands:

Band 1: 3 - 4.5

Band 3: 6 - 9

Band 2: 4.5 - 6

Band 4: 9 - 13.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, cw, frequency shift keying.

POWER OUTPUT: 350 w.

POWER REQUIREMENTS: 1,800 w, 2,000 va, 200 - 250 v, 50/60 cyc, 1 phase, ac.

Radio Transmitter T-174/FR packed for domestic shipment: total weight 1,700 pounds, total volume 87 cu ft, 2.2 ship tons.