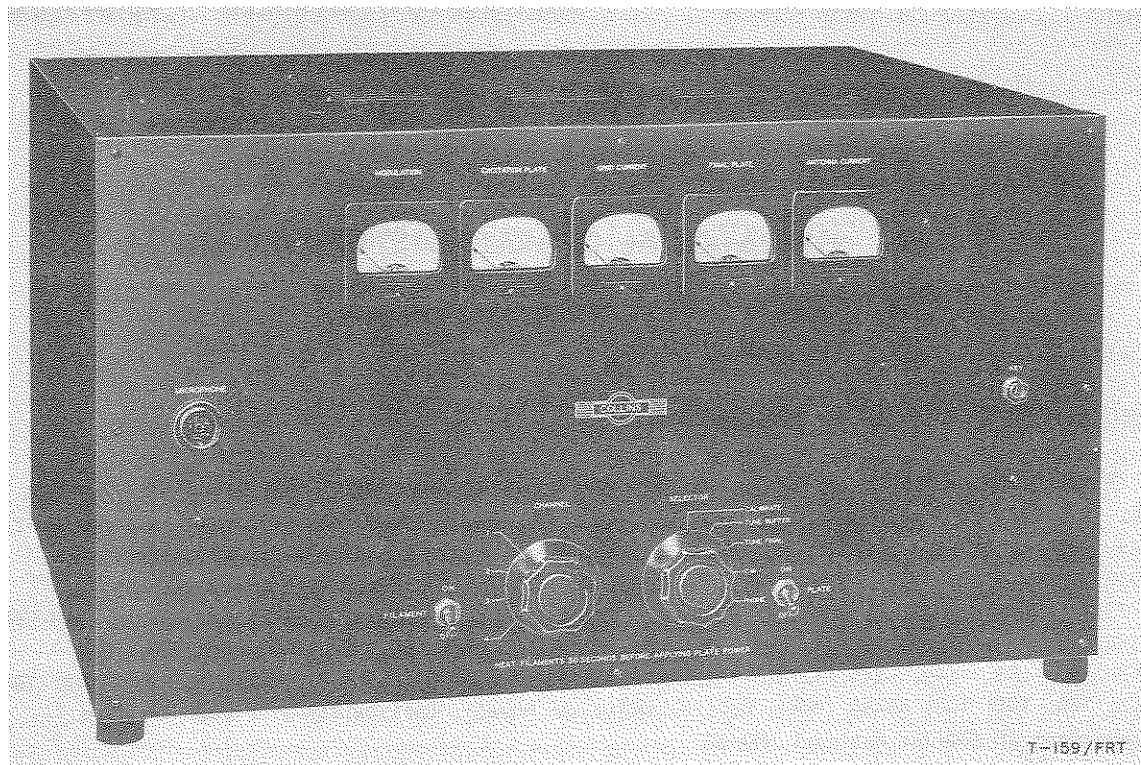


STATUS: Standard	AN/FRT-TYPE
CLASSIFICATION OF EQUIPMENT: Unclassified	
USING SERVICE: Army	AN/COMP TYPE NUMBER: T-159/FRT
DATE OF THIS SHEET: 1 Jan 52	RADIO TRANSMITTER



Radio Transmitter T-159/FRT is a low-power, a-m (voice and cw) radio transmitting equipment used for point-to-point, homing, and fixed or mobile station use in the medium- and high-frequency bands at corps and equivalent headquarters.

This equipment consists essentially of a commercial (Collins Model 32 RA-7, -8, or -9) table-model transmitter which is completely contained in a steel cabinet. The complete installation includes a microphone and a telegraph key. It operates in four preset channels and may be keyed up to speeds of 60 wpm.

It is designed to work into unbalanced antennas, or transmission lines, having a resistive impedance of 30 to 1,200 ohms and a reactive impedance of up to 300 ohms. It requires about 400 w of 115-v ac.

AN/FRT-TYPE		INSTRUCTION LITERATURE: TO 16-10-116
		CLASSIFICATION OF EQUIPMENT: Unclassified
T-159/FRT	: AN/COMP TYPE NUMBER	USING SERVICE : Army
RADIO TRANSMITTER		DATE OF THIS SHEET : 1 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
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(Equipment consists only of a single major operating component.)

OPERATIONAL CHARACTERISTICS

TACTICAL USE: General purpose use at corps and equivalent headquarters.

INSTALLATION: Ground, mobile or fixed station.

APPROXIMATE RANGE (IN MILES): Medium.

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/TRO-1; AN/URR-10, -22, -23; AN/VRC-1, -4; BC-312, -314, -342, -344, -348, -779, -794, -1004; MBS; HQ; 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; RDE; RDM; REA; SCR-177, -188, -193, -244, -274, -399, -499, -506, -536, -543, -585, -593, -694, -704; T80; 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.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 1.5- 15.0.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice and cw.

POWER OUTPUT: Voice: 50 w.
Cw: 75 w.

POWER REQUIREMENTS: 390 w (at 0.9 power factor) 115v, 50/60 cyc, 1 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Transmitter T-159/FRT measures 12 x 22 x 18, net weight 120 pounds, volume 3 cu ft.