

STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army, Navy

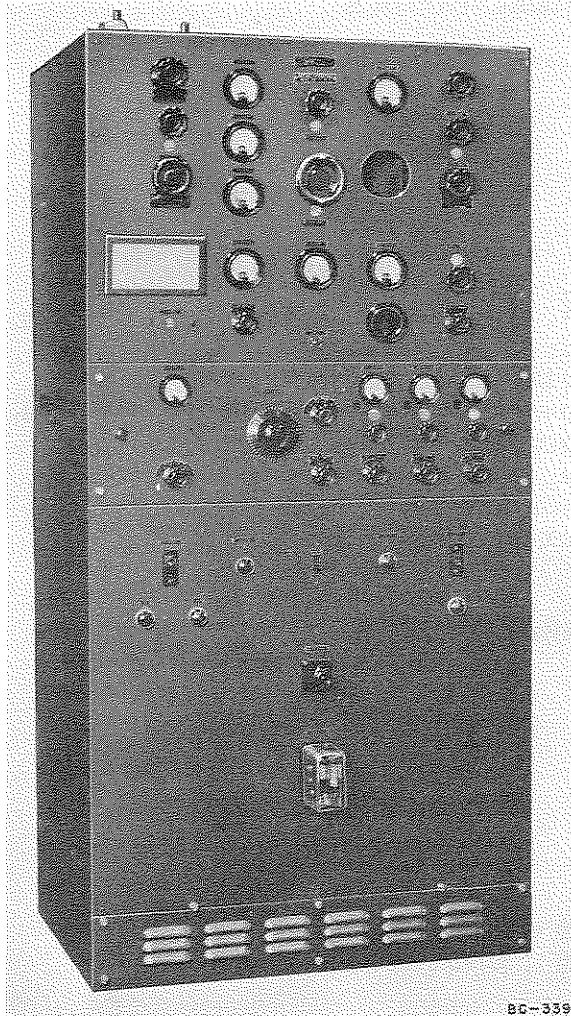
DATE OF THIS SHEET: 8 Jan 52

**AN/FRT-TYPE**

SERVICE TYPE NUMBER:

BC-339

RADIO TRANSMITTER



BC-339

Radio Transmitter BC-339 is a high-frequency, medium power, radiotelegraph transmitting equipment used for fixed plant long range, high-speed communication.

This equipment consists of a floor type steel cabinet containing the operating components and related apparatus.

It can be operated independently, or as a driver for Power Amplifier BC-340 with Rectifier RA-22 and Water Cooling Unit RU-2 to form a 10-kw radiotelegraph or radioteletype facility.

It has provision for remote starting, stopping and keying the transmitter over a telephone pair from distances up to six miles away, and can be operated under such conditions at speeds of 300 wpm.

It is usually operated with a rhombic doublet, or similar array, and operates on 220-v ac.

<b>AN/FRT-TYPE</b>		INSTRUCTION LITERATURE: TM 11-836
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**MAJOR COMPONENTS**

QUANT NAME OF COMPONENT DIMENSIONS (IN) INSTALLED WEIGHT (LBS)

(Equipment consists only of a single major operating component.)

**OPERATIONAL CHARACTERISTICS**

TACTICAL USE: Theater commands, army security agency.

INSTALLATION: Ground, 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-3, -4, -9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -22; AN/PRC-7, -9, -19, -20; AN/SRR-3, -8, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23; AN/VRC-1, -5, -9, -13, -16, -20; AN/VRQ-1; BC-312, -342, -348, -779, -794, -1004; MBS; OA-58/FRC, -59/FRC; R-62/PR, -90/PR, -96/SR, -129/U, -203/SR, -205/SR, -206/PR, -208/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, -293, -294, -298, -399, -499, -506, -508, -509, -510, -528, -536, -543, -585, -593, -694, -704; TBO; TBX; TCH; TCO; TCS; AR-98 (RCA); Collins 18S-4 (AF Model); Collins 75A-2; Hammarlund SP-600-JX; National HRO-50.

**TECHNICAL CHARACTERISTICS**

FREQUENCY RANGE IN MEGACYCLES: 4.0 - 26.5.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, frequency shift keying.

POWER OUTPUT: 1 kw.

POWER REQUIREMENTS: BC-339-A, -B, -C, -F: 220 v, 60 cyc, 3 phase, ac.  
 BC-339-E, -G, -H, -J, -K, -L, -M : 220 v, 50/60 cyc, 3 phase, ac.  
 Key up: 1,610 w, (7 amp) per line.  
 Key down: 4,300 w, (13 amp) per line.

**PHYSICAL CHARACTERISTICS**

Radio Transmitter BC-339 measures 81-5/8 x 33-3/8 x 37-1/8 inches, net weight 1,560 pounds, volume 58.5 cu ft, 1.47 ship tons. Packed for domestic shipment: total weight 2,350 pounds, total volume 115 cu ft. Shipped in 6 packages. Packed for export shipment: total weight 2,350 pounds, total volume 115 cu ft, 3.91 ship tons.