



BC-339-(*)

Figure 37. Radio Transmitter BC-339-J.

Status: Standard. *Stock No.:* 2C6339 (BC-339, -A, -B, -E, -F, -G, -H, -J, -K); Stock No. 2C6339C.1 (BC-339-C); Stock No. 2C6339L (BC-339-L); Stock No. 2C6339M (BC-339-M). *Reference:* TM 11-836.

Radio Transmitter BC-339-(*) represents Radio Transmitters BC-339, BC-339-A, -B, -C, -E, -F, -G, -H, -J, -K, -L, and -M. Radio Transmitter BC-339-(*) is an h-f, fixed-ground, radiotelegraph transmitter usually used with doublet or rhombic antennas. The transmitter has been designed for c-w transmission. Self-contained rectifier power supplies furnish d-c voltage to all transmitter circuits. Three power supplies are operated from a commercial or auxiliary a-c power source. Provision is made for remotely starting, stopping and keying the transmitter through a 2-wire telephone cable and ground at distances as great as 6 miles, and at speeds as high as 300 words per minute. Models -K, -L, and -M, have provisions for radioteletypewriter excitation.

Radio Transmitter BC-339-(*) may be operated independently as a 1-kw transmitter or may be used as a driver for Power Amplifier BC-340-G, Rectifier RA-22, and Water Cooling Unit RU-2 to form a 10-kw transmitting station.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: 4.0 to 26.5 mc.
NUMBER OF CRYSTALS: 6 operating.
PRESET FREQUENCIES: 6.
ANTENNA: In any resonant or wave-type antenna having a balanced 600-ohm input impedance. Normally, doublet or rhombic antennas are used but are supplied only as separate items.
TYPE MODULATION: C-w or frequency shift (radioteletypewriter).
FREQUENCY CONTROL: Crystal and mo.
POWER INPUT: From 220-v, 3-phase, 60-cyc line.
POWER OUTPUT: 1 kw.
RANGE: Dependent upon antenna used and operating frequency.
NUMBER OF TUBES: 15.

GENERAL APPLICATION

USE: May be operated independently as a 1-kw transmitter, or may be used as a driver for Power Amplifier

Equipment AN/FRA-2 (Radio Power Amplifier BC-340-C), to form a 10-kw transmitting station.
TO COMMUNICATE WITH: Radio Sets AN/MRC-1, SCR-399-A, and SCR-499-A; and Radio Receivers BC-779-A and BC-1004-A.
INSTALLATION: Fixed station.
TYPE OF SIGNAL: C-w.

PRINCIPAL COMPONENTS

<i>Name</i>	<i>Dimensions (in.)</i>	<i>Weight (lb)</i>
Radio Transmitter BC-339-		
(*) (in steel cabinet).....	81 $\frac{1}{8}$ x 33 $\frac{3}{8}$ x 37 $\frac{1}{8}$	1,560

WEIGHT AND VOLUME

	<i>Unpacked</i>	<i>Domestic pack</i>
Total weight (lb) (approx).....	2,355	
Total volume (cu ft) (approx).....		156.6
Ship tons (approx).....		0.4