

STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army, Navy

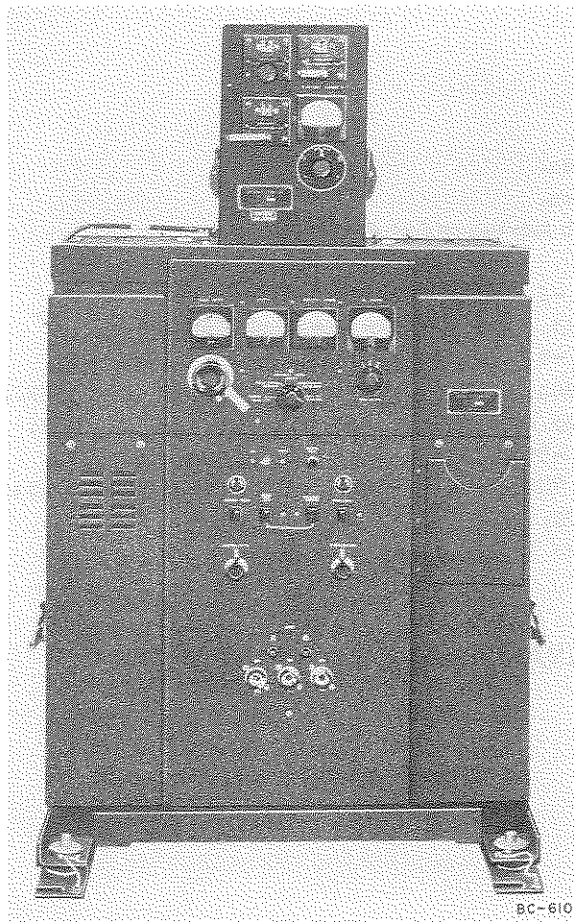
DATE OF THIS SHEET: 8 Jan 52

AN/GRT-TYPE

SERVICE TYPE NUMBER:

BC-610

RADIO TRANSMITTER



Radio Transmitter BC-610 is the widely used radio transmitting component of such equipments as Radio Sets SCR-399, SCR-499, and similar radio sets. It is a crystal-controlled or master oscillator a-m (voice or cw), medium- and high-frequency, radiotelephone and radiotelegraph equipment used in intermediate and long distance communication at division and higher headquarters.

This equipment consists essentially of a single, cabinet-inclosed, compact unit which is fitted with shock mountings. It is designed for use in mobile applications, which can operate on the move, using whip-type antenna systems. It can also be used as a fixed station transmitter, used with rhombic, doublet, tower-supported or other more elaborate arrays.

As mobile equipment it is powered by a trailer-drawn power unit; as fixed station equipment it is operated on conventional power sources.

It requires 1,700 to 2,000 w of 115 v 50/60 cyc, ac.

AN/GRT-TYPE	INSTRUCTION LITERATURE: TM 11-281, TM 11-4057
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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: Overseas theaters.

INSTALLATION: Ground: mobile or fixed station.

APPROXIMATE RANGE (IN MILES): Voice: 100 miles.
C-w : 250 miles.
(Ranges for both moving and stationary.)

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, -9, -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, -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, -188, -193, -244, -274,
-281, -399, -499, -506, -536, -543, -585, -593, -694, -704; TBO; TBX; TCH; 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: 2 - 18.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw and voice.

POWER OUTPUT: Cw: 400 w.
Voice: 300 w.
Above 8 mc output is somewhat less.

POWER REQUIREMENTS: 1,700 to 2,000 w, 115 v, 50/60 cyc, ac.

PHYSICAL CHARACTERISTICS

Radio Transmitter BC-610 measures 32-5/8 x 21-3/8 x 39-7/8 inches, net weight 497 pounds, volume 16.8 cu ft. Packed for domestic shipment: total weight 755 pounds, total volume 35.1 cu ft, 0.88 ship ton.