

STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army, Navy

DATE OF THIS SHEET: 8 Jan 52

**AN/GRT-TYPE**

SERVICE TYPE NUMBER:

BC-191

RADIO TRANSMITTER



Radio Transmitter BC-191 is a general utility, medium-range, low-frequency, a-m (voice and cw) radio transmitting equipment which is widely used as part of Radio Sets SCR-177, SCR-188, SCR-193, and AN/VRC-1 and similar equipment. It can be used on the ground, in vehicles, and in aircraft and is used for ground-to-ground or ground-to-air communication.

This equipment consists of a radio transmitter, and appropriate tuning units for the frequency channels in which it is desired to operate it, a dynamotor and related accessories. Normally, when issued as part of a complete radio set, this equipment is provided with tuning units for the frequencies in which the radio set is to be operated.

May be operated from a storage battery, through the dynamotor component, or from a portable field power unit such as Power Units PE-75 and PE-49 and similar equipment.

<b>AN/GRT-TYPE</b>		INSTRUCTION LITERATURE: TM 11-4017
BC-191	SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO TRANSMITTER		USING SERVICE: Army, Navy
		DATE OF THIS SHEET: 8 Jan 52

### MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Antenna Tuning Unit BC-306	17-3/4 x 9-1/2 x 9-1/8	9.75
1	Dynamotor Unit BD-77	10-29/32 x 11-1/16 x 7-1/2	38.7
1	Radio Control Box BC-309	3-9/16 x 3 1/2 x 2-7/32	0.418
8	Transmitter Tuning Units .	7-5/8 x 16-3/4 x 8-3/4 (each)	11.437

### OPERATIONAL CHARACTERISTICS

**TACTICAL USE:** Used in training artillery units.

**INSTALLATION:** Aircraft, ground, vehicle.

**APPROXIMATE RANGE (IN MILES):** 100.

**CAN COMMUNICATE WITH:** AN/ARC-2, -5, -8, -9, -21, -25; AN/ARR-15; AN/FRC-10; AN/FRR-3, -4, -7, -12, -28; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -19, -20; AN/SRC-3; AN/SRR-3, -8, -11, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23; AN/VRC-1, -4; AN/VRR-2; BC-312, -314, -342, -344, -348, -453, -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/UR, -209/UR, -210/U, -211/U, -212/SR, -213/SR, -215/SR, -247/URR, -274/FRR, -288/URR, -320/FRC; RAK; RAL; RAO; RAS; RBA; RBB; RBC; RBG; RBH; RBL; RBM; RBO; RBP; RBS; RCF; RCG; RCH; RDE; RDF; RDM; REA; SCR-177, -188, -193, -244, -274, -281, -399, -499, -506, -536, -543, -585, -593, -614, -694, -704; TBO; TBX; TCH; TCP; TCS; AR-88 (RCA); ARC Type 12; 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:** 0.2 - 0.8 and 1.5- 12.5.

**TYPE MODULATION:** Am.

**TYPE OF SIGNAL:** Voice, tone, and cw.

**POWER OUTPUT:** 40 - 75 w.

**POWER REQUIREMENTS:** 12-v storage battery, gasoline engine generator for supplying 12 v and high voltage, or 110/220 v ac.

### PHYSICAL CHARACTERISTICS

Radio Transmitter BC-191 measures 22 x 21-21/32 x 9-5/16 inches, net weight 52 pounds.