



AN/VRC-5

Figure 34. Radio Receiver BC-603, and Radio Transmitter BC-604;  
Components of Radio Set AN/VRC-5.

*Status:* Substitute standard. *Stock No.:* 2S4502-5/V97. *Reference:* TM 11-600.

Radio Set AN/VRC-5 is designed for installation and operation in combat vehicles, such as tanks, scout cars, command cars, or any other authorized vehicles. The set provides f-m radiotelephone facilities, and consists, basically, of Radio Transmitter BC-604 and Radio Receiver BC-603.

Interphone Control Box BC-606 provides separate control and connection facilities for a microphone and a headset. Several control boxes may be connected in multiple, if desired.

Radio Set AN/VRC-5 and Radio Sets SCR-528-A, -C, -D, -AM, -CM, and -DM are identical except that Radio Set AN/VRC-5 has separate mountings for the transmitter and for the receiver.

### TECHNICAL CHARACTERISTICS

**FREQUENCY RANGE:** 20.0 to 27.9 mc (transmitter, 80 channels).

**NUMBER OF CRYSTALS:** 10 (operating).

**PRESET FREQUENCIES:** 10.

**ANTENNA:** Whip, 10 ft long. Consists of Mast Sections MS-116, MS-117, and MS-118 mounted on Mast Base AB-15/GR.

**TYPE MODULATION:** Frequency.

**FREQUENCY CONTROL:** Crystal.

**POWER SOURCE:**

Radio Transmitter BC-604: 12-v vehicular battery through Dynamotor DM-35, or 24-v vehicular battery through Dynamotor DM-37.

Radio Receiver BC-603: 12-v vehicular battery through Dynamotor DM-34, or 24-v vehicular battery through Dynamotor DM-36.

**POWER OUTPUT:** 30 w.

**RANGE:** 10 to 15 mi (approx), depending upon terrain and atmospheric conditions.

**NUMBER OF TUBES:** Radio Transmitter BC-604: 8. Radio Receiver BC-603: 10.

### GENERAL APPLICATION

**USE:** Used in vehicles and armored vehicles to provide tactical control.

**TO COMMUNICATE WITH:** Radio Sets AN/VRC-5, SCR-508, SCR-509, SCR-510, SCR-528, SCR-608-A, SCR-609, SCR-610, SCR-619, SCR-628-A, SCR-808-A, and SCR-828-A.

**INSTALLATION:** Installed and operated in vehicles.

**TYPE OF SIGNAL:** Voice.

### PRINCIPAL COMPONENTS

<i>Name</i>	<i>Dimensions (in.)</i>	<i>Weight (lb)</i>
1 Radio Transmitter BC-604	11½ x 10¼ x 18	67
1 Radio Receiver BC-603	11½ x 6¾ x 12½	35
1 Dynamotor DM-34	4½ x 6¾ x 12½	4.7
1 Dynamotor DM-35	5½ x 4½ x 8¼	9.2
1 Mounting FT-346 (for receiver)	3⅞ x 7 x 11¼	6
1 Mounting FT-508 (for transmitter)	4½ x 9½ x 19½	14.7
2 Mast Sections MS-117	39½	0.7 (ea)
2 Mast Sections MS-118	39⅝	0.8 (ea)
1 Mast Base AB-15/GR	15	2
1 Interphone Control Box BC-606-H	4½ x 2½ x 4¼	1.8