



Figure 8. Radio Set AN/GRC-9, principal components.

Status: Standard. *Stock No.:* 2S2501-9. *Reference:* TM 11-263.

Radio Set AN/GRC-9 is a light-weight, man-transportable field radio set providing two-way radio-telephone and radiotelegraph service in the h-f range. It is provided with mountings and power supply for vehicular service.

This set is the same as Radio Set SCR-694 except that it provides greater frequency coverage. It replaces Radio Sets SCR-284, SCR-288, and SCR-694.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: 2.0 to 12 mc, in three bands:

- Band 1: 6.6 to 12 mc.
- Band 2: 3.6 to 6.6 mc.
- Band 3: 2.0 to 3.6 mc.

NUMBER OF CRYSTALS:

- Transmitter: 2 in each band, or total of 6.
- Receiver: 1 for calibration.

PRESET FREQUENCIES: None.

ANTENNA: Long-wire for permanent or semipermanent installations. Vertical mast antenna for mobile vehicular installations, or when equipment must be moved rapidly and frequently from one location to another.

TYPE MODULATION: Amplitude, c-w, or m-c-w.

FREQUENCY CONTROL: TRANSMITTER: Mo operation and crystal.

POWER SOURCE:

- Vibrator Power Unit PE-237; 6-, 12-, or 24-v storage battery.
- Generator GN-58, hand-powered; Battery BA-48 (receiver operation only).

POWER OUTPUT:

Power switch position	Vibrator Power Unit PE-237		Generator GN-58	
	Voice	C-w	Voice	C-w
High	7w	15w	3.6w	10w
Low	1w	5w	1.2w	5w

RANGE:

Cw		Voice	
Stationary	75 mi	Stationary	25 mi
Moving	30 mi	Moving	15 mi

NUMBER OF TUBES: 14 (plus one tube of each type as running spare).

GENERAL APPLICATION

USE: To provide two-way radiotelephone and radiotelegraph communication between moving or stationary vehicles. May also be used as a portable field set.

TO COMMUNICATE WITH: Radio Sets AN/GRC-9, SCR-188-A, SCR-193, SCR-499, SCR-506-A, SCR-536, and SCR-694.

INSTALLATION: Installed and operated in vehicle or used as portable field set.

TYPE OF SIGNAL: C-w, m-c-w, and voice.

PRINCIPAL COMPONENTS

Name	Dimensions (in.)	Weight (lb)
Receiver-Transmitter RT-77/-		
GRC-9 (complete)	16 x 11½ x 8½	33
Vibrator Power Unit PE-237	18 x 10 x 10	88
Generator GN-58	10 x 7½ x 7½	29
Antenna AT-101/GRC-9	12 x 8½ x 2	2¼
Antenna AT-102/GRC-9	12 x 8 x 2	2½
Mounting MT-350/GRC-9.		

WEIGHT AND VOLUME

Total weight (lb)	359
Total volume (cu ft)	15.9