

Section II. Amplitude Modulated Radio Sets

AN/GRC-106 and AN/GRC-106A Radio Sets

NSN: 5820-00-402-2263 (AN/GRC-106)
5820-00-223-7548 (AN/GRC-106A)

Reference: TM 11-5820-520-10

General Information

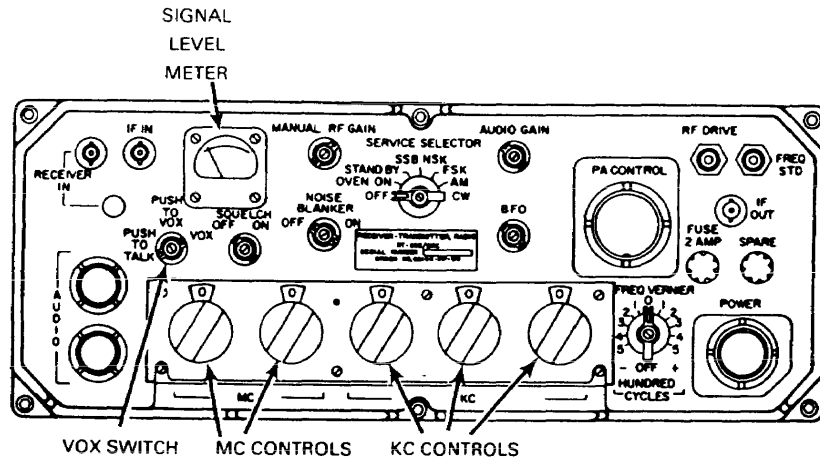
The AN/GRC-106 is an HF-single sideband (SSB) radio set used primarily as a mobile link in a communications network. It also may be used in fixed and semifixed applications, and it has an AM mode to make it compatible with standard AM radio sets. The AN/GRC-106 is now being used as the basic radio set with all of the newer SSB radio teletypewriter (RATT) configurations. The AN/GRC-106 and AN/GRC-106A are identical except that the AN/GRC-106 uses an RT-662/GRC, and the AN/GRC-106A uses an RT-834/GRC. The KY-99 is compatible with the AN/GRC-106 for secure operation.

Technical Characteristics

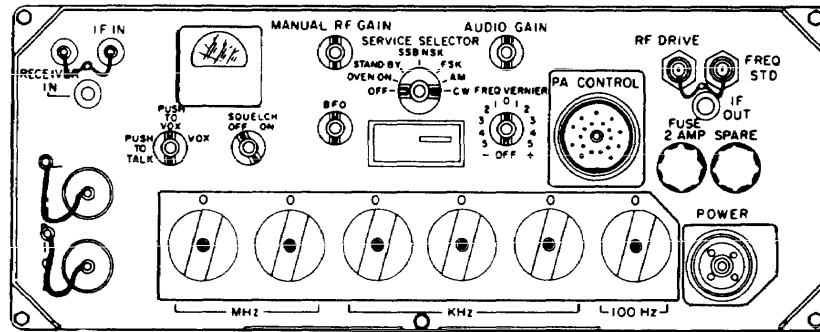
Frequency Range	2.0 to 29.999 MHz (AN/GRC-106); 2.0 to 29.9999 (AN/GRC-106A)
Planning Range	Ground wave, 80 km (50 mi) (frequency depends on antenna and terrain); sky wave, 160 to 2,400 km (100 to 1,491 mi)
Number of Channels	RT-662: 28,000, spaced every 1 kHz; RT-834: 280,000, spaced every 100 Hz
Power Input	27 V DC
Power Source	Vehicle power system; to operate from 115 V AC, Power Supply PP-4763A must be used to provide the required 27 V DC
Power Output	3K00R3E, 3K00J3E: 400 W PEP 1K10A1A, 100HA1A: 200 W
Antenna	4.57 m (15 ft) whip or doublet AN/GRA-50 Tuning, Digital receiver also has a \pm 600 Hz vernier
Squelch	Noise
Security Device	TSEC/KY-65
Type of Service	3K00J3E, 3K00R3E, 1K0013A1A, 1K10A1A
Weight	58.1 kg (128 lb)

AN/GRC-106 and AN/GRC-106A Radio Sets

RT-662/GRC



RT-834/GRC



ANTENNA TUNING AND
LOADING CHART

AM-3349/GRC-106

