

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

BEING REPLACED BY AN/GRC-19

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

Reference: TM 11-5820-520-10

General Information

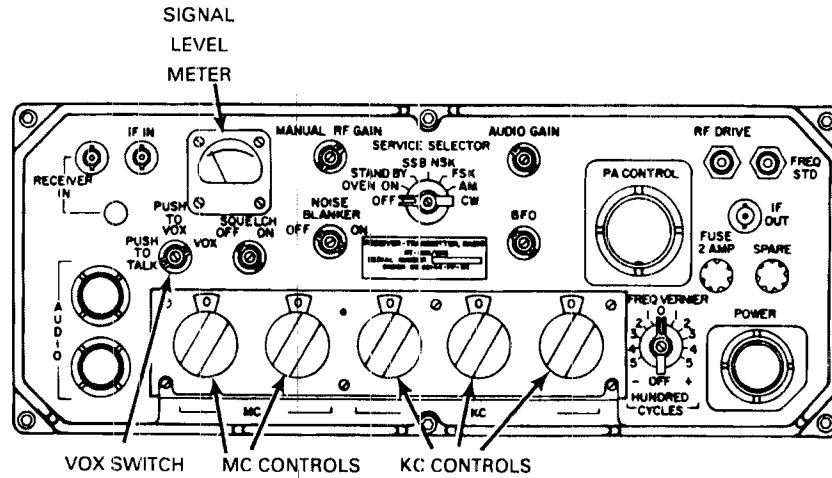
The AN/GRC-106 is an HF-SSB radio set used primarily as a mobile link in a communications network. It may also be used in fixed and semifixed applications, and it has an AM mode to make it compatible with standard AM radio sets. The AN/GRC-106 is now being used as the basic radio set with all of the newer SSB RATT configurations. The AN/GRC-106 and -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-65 is compatible with the AN/GRC-106 for secure operation.

Technical Characteristics

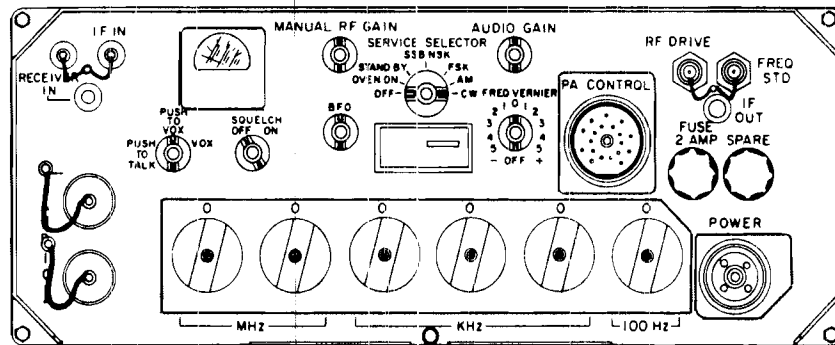
Frequency Range-----2.0 to 29.999 MHz (AN/GRC-106); 2.0 to 29.9999 (AN/GRC-106A)
 Planning Range-----Ground wave, 80 km (50 mi) (frequency is antenna and terrain dependent); sky wave, 160 to 2,400 km (100 to 1,491 mi)
 Number of Channels-----RT-662: 28,000, spaced every 1 kHz;
 RT-834: 280,000, spaced 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 ± 600 Hz vernier
 Squelch-----Noise
 Security Device-----TSEC/KY-65
 Type of Service-----3K00J3E, 3K00R3E, 1K00HA1A, 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

1						5						9					
2						6						10					
3						7						11					
4						8						12					
CHAN FREQ TUNE LOAD ANT TYPE						CHAN FREQ TUNE LOAD ANT TYPE						CHAN FREQ TUNE LOAD ANT TYPE					

LOGGING CHART

TEST METER

ANT TUNE DRIVER CUR GRID DRIVE ANT LOAD

▶ HIGH VOLT CUR PA CUR PA CUR

▶ LOW VOLT VOLT POWER POWER

▶ PRIM VOLT VOLT OUT

TUNE OPERATE

← HV RESET →

ON OFF PRIM PWR

CONTROL

RF DRIVE PRIM POWER

15 FOOT WHIP ANTENNA 1 x 1 IN VEHICLE

CHAN	FREQ	TUNE	LOAD	ANT	TYPE	CHAN	FREQ	TUNE	LOAD	ANT	TYPE	CHAN	FREQ	TUNE	LOAD	ANT	TYPE
1	1100	1100	1100	1100	1100	5	1100	1100	1100	1100	1100	9	1100	1100	1100	1100	1100
2	1100	1100	1100	1100	1100	6	1100	1100	1100	1100	1100	10	1100	1100	1100	1100	1100
3	1100	1100	1100	1100	1100	7	1100	1100	1100	1100	1100	11	1100	1100	1100	1100	1100
4	1100	1100	1100	1100	1100	8	1100	1100	1100	1100	1100	12	1100	1100	1100	1100	1100

AM-3349/GRC-106