

**AN/GRC-103(V)  
Radio Set**

NSN: 5820-00-935-4931 (AN/GRC-103(V)1)  
5820-00-116-6029 (AN/GRC-103(V)2)  
5820-00-116-6030 (AN/GRC-103(V)3)  
5820-01-081-8866 (AN/GRC-103(V)4)

Reference: TM 11-5820-540-12

**General Information**

The AN/GRC-103(V) is a compact, transportable UHF-FM radio set which provides facilities for multichannel transmission and reception of PCM signals. It will accommodate up to 24 telephone channels when used with appropriate PCM multiplex equipment. The multichannel radio system can be secured by using electronic key generator TSEC/KG-27. In various configurations, the AN/GRC-103(V) can be employed as radio terminals or repeater stations. The difference between the models is the frequency range of bands I, II, III, and IV.

**Technical Characteristics**

Frequency Range . . . . .	Band I, 220 to 404.5 MHz Band II, 394.5 to 705 MHz Band III, 695 to 1000 MHz Band IV, 1350 to 1850 MHz
Frequency Separation:	
Transmit to Receive . . . . .	16.5 MHz
Planning Range . . . . .	80 km (50mi)
Number of Channels . . . . .	Band I, 369 Band II, 621 Band III, 610 Band IV, 1,000
Power Input . . . . .	115 V AC, 47 to 420 Hz
Power Output . . . . .	15 to 25 W
Antenna . . . . .	Combination of Mast AB-952/GRC-103 and either the AS-1852/GRC-103, Band I; AS-1853/GRC-103, Band II; AS-1854/ GRC-103, Band III; or AS-3047()/ GRC-103, Band IV
Tuning . . . . .	Continuous
Type of service . . . . .	500KF9W (designed for use with multichannel PCM equipment only)
Weight . . . . .	212.5 kg (468 lb)

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