

**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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