

FM 24-24

**AN/GRC-163
Radio Terminal Set**

NSN: 5820-00-832-5617

Reference: TM 11-5820-713-15

General Information

The AN/GRC-163 is a compact, transportable, multichannel VHF-FM radio terminal set used in point-to-point radio circuits. It can provide four voice and two teletypewriter channels plus an orderwire circuit. Four telephone ringers are built into the AN/TCC-70. Although the RT-524 can provide a secure single voice channel, current tactical bulk encryption devices are not compatible with the AN/TCC-70; therefore, this system cannot be operated in a secure mode.

Technical Characteristics

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|----------------------------|---|
| Frequency Range | .30,00 to 75.95 MHz |
| Frequency Separation | Transmit to receive vehicular whips, 10 MHz; fixed, with antennas 30.50 m (100 ft) apart, 3 MHz |
| Planning Range | 8 to 41 km (5 to 25.5mi) |
| Number of Channels | 920 |
| Power Input | .115 V AC, 50, 60, or 400 Hz or 230 V AC, 50 to 60Hz |
| Power Source | .15kW Generator Set, SF-15-MD |
| Power Output | Low, 3 W; High, 35W |
| Antenna | Log periodic AS-2169/G (two each) or 3.05 m (10 ft) Whip AS-1729 (two each) |
| Tuning | Detent |
| Squelch | 150 Hz tone and noise |
| Type of Service | 40 K0F9W (multichannel system) |
| Weight | 105.1 kg (231 lb) |

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