

**AN/GRC-50(V) Radio Set**

Status: STD-A; NSN: 5820-00-892-3851 (AN/GRC-50(V)1)  
 STD-A; NSN: 5820-00-892-3852 (AN/GRC-50(V)2)  
 STD-A; NSN: 5820-00-892-3853 (AN/GRC-50(V)3)  
 STD-A; NSN: 5820-00-892-3854 (AN/GRC-50(V)4)  
 STD-A; NSN: 5820-00-892-3855 (AN/GRC-50(V)5)  
 STD-A; NSN: 5820-00-933-6193 (AN/GRC-50A(V)1)  
 STD-A; NSN: 5820-00-933-6192 (AN/GRC-50A(V)2)  
 STD-A; NSN: 5820-00-933-6191 (AN/GRC-50A(V)3)  
 STD-A; NSN: 5820-00-933-6190 (AN/GRC-50A(V)4)  
 STD-A; NSN: 5820-00-933-6189 (AN/GRC-50A(V)5)  
 STD-A; NSN: 5820-00-936-5480 (AN/GRC-50A(V)6)  
 STD-A; NSN: 5820-00-936-5481 (AN/GRC-50A(V)7)  
 STD-A; NSN: 5820-00-935-0089 (AN/GRC-50A(V)8)  
 STD-A; NSN: 5820-00-878-8635 (AN/GRC-50A(V)9)  
 STD-A; NSN: 5820-00-878-8634 (AN/GRC-50A(V)10)  
 STD-A; NSN: 5820-00-136-4966 (AN/GRC-50A(V)11)

Reference: TM 11-5820-461-12

**General Information**

The AN/GRC-50 is a medium-capacity, transportable FM radio set that provides multichannel, two-way communication in the UHF range. It can be used in conjunction with 4-, 12-, or 24-channel FDM or 12- or 24-channel PCM equipment. The multichannel radio system (PCM only) can be secured using Electronic Key Generator TSEC/KG-27. A variety of configurations use the AN/GRC-50 as a radio terminal or repeater station in a communication network. The difference between the various configurations determines the number of stacks (components), whether it consists of high or low band, and in which assemblage it is used. For more information refer to the technical manual.

**Technical Characteristics**

Frequency Range-----Low band, 601.5 to 999.5 MHz; high band,  
 1350.5 to 1849.5 MHz

Frequency Separation

Transmit to Receive-----15 MHz

Planning Range-----50 km (31 mi)

Number of Channels-----Low band, 399; high band, 500

Power Input-----115 V AC, 47 to 63 Hz

Power Output-----Low band, 15 to 30 W; high band, 8 to 20 W

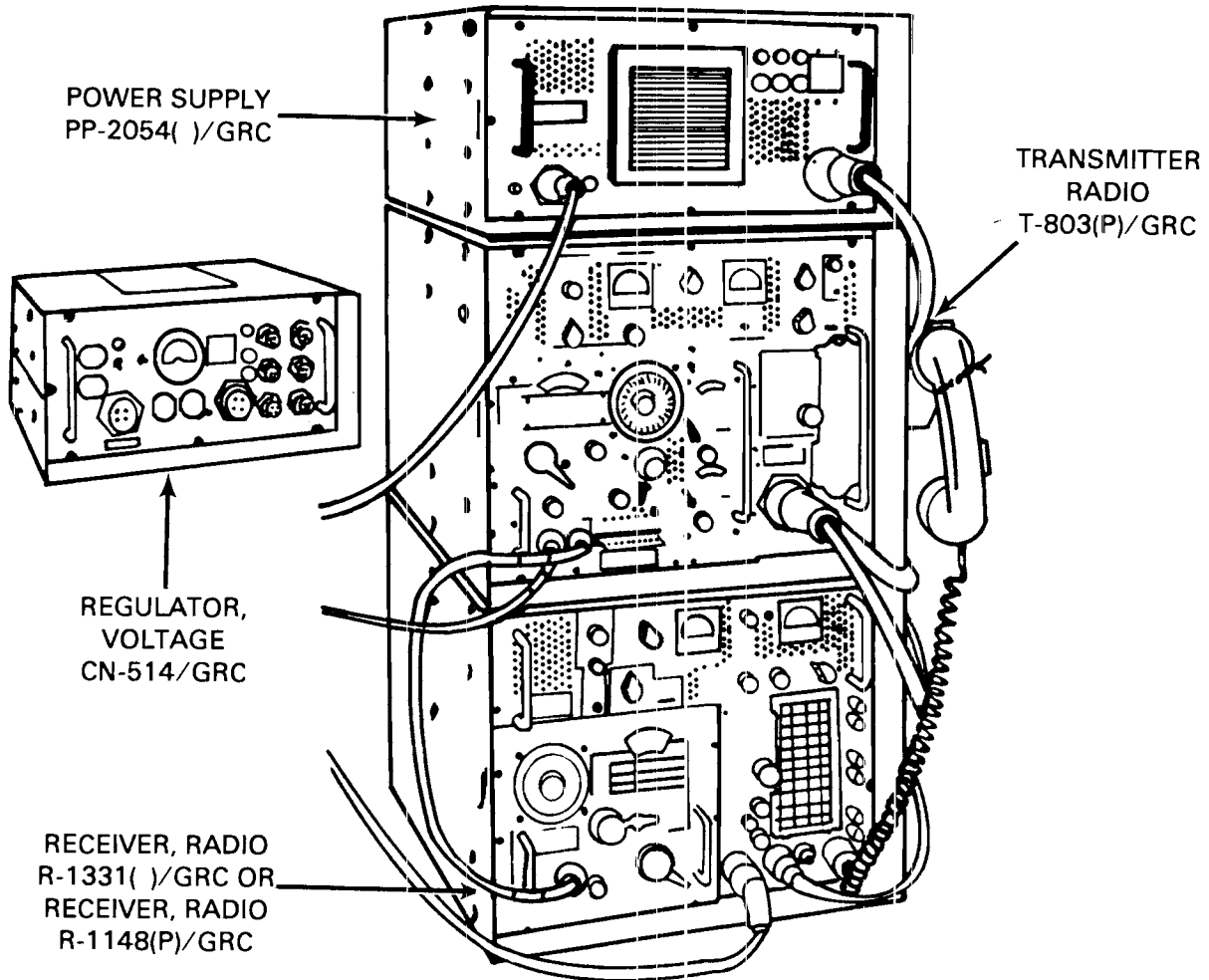
Antenna-----AT-903/G with Mast AB-577/GRC

Tuning-----Continuous

Type of Service-----1200KF9W (multichannel FDM/PCM equipment)

Weight-----212.5 kg (468 lb)

# AN/GRC-50(V) Radio Set



AN-1335 (601-904 R & 1000)  
1951 TX