

## AN/GRC-46 and AN/VRC-29 Radio Teletypewriter Sets

Status:     STD-F; NSN: 5815-00-543-1760 (AN/GRC-46)  
               STD-F; NSN: 5815-00-082-4205 (AN/GRC-46C)  
               STD-F; NSN: 5815-00-401-9721 (AN/VRC-29)

Reference: TM 11-5815-204-10

### General Information

The AN/GRC-46 and the AN/VRC-29 are medium-power, general use HF-AM radio sets normally used in RATT operation. Secure FSK operation is possible by using Electronic Teletypewriter Security Equipment TSEC/KW-7. However, current tactical speech security equipment is not compatible with the AN/GRC-19; therefore, secure voice is not a mode of operation. The AN/GRC-46 and the AN/VRC-29 are similar, except that the AN/GRC-46 is shelter mounted and the AN/VRC-29 is mounted in armored personnel carriers. The AN/GRC-46 has been replaced by AN/GRC-142 and the AN/VRC-29 by AN/VSC-3. All models of the AN/GRC-46 are basically identical. Refer to TM 11-5815-204-10 for minor differences.

### Technical Characteristics

Frequency Range:  
   Transmit-----1.5 to 20 MHz  
   Receive-----.5 to 32 MHz  
 Planning Range-----Ground wave, 80 km (50 mi); sky wave,  
                                   160 to 2,400 km (100 to 1,490 mi)  
 Number of Channels-----NA (continuous tuning)  
 Power Input-----27.5 V DC  
 Power Source-----Vehicle power system  
 Power Output-----100 W maximum  
 Antenna-----4.57 m (15 ft) whip or doublet AN/GRA-4  
                                   or AN/GRA-50  
 Tuning-----Continuous  
 Squelch-----Carrier  
 Type of Service-----6K00A3E, 100HA1A, 1K10A1A  
 Weight-----317.8 kg (700 lb)

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