

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 The AN/GRC-46 has been replaced by AN/GRC-142 and the AN/VRC-29 by AN/VSC-3.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:

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|-------------------------|--|
| 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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