

**AN/VRC-24A and AN/TRC-68A
Radio Sets**

NSN: 5820-00-223-7413 (AN/VRC-24A)
5820-00-892-3723 (AN/TRC-68A)

Reference: TM 11-5820-222-10

General Information

The AN/VRC-24A and the AN/TRC-68A are VHF/UHF-AM radio sets used for communications with aircraft in close support of ground operations. The AN/VRC-24A is designed for vehicular installation, and the AN/TRC-68A is designed for fixed installation. These radio sets will provide secure voice (X-mode) service when used in conjunction with Speech Security Equipment TSEC/KY-99.

Technical Characteristics

Frequency Range	225.0 to 399.9 MHz
Planning Range	Approximately 50 km (31 mi) with aircraft at 305 m (1,000 ft)
Number of Channels	1,750 with a channel every 100 kHz
Power Input	24 V DC or 115/230 V AC, 50 to 60 Hz
Power Source	Vehicle power system, any appropriate AC power source
Power Output	16 W
Antenna	AN/VRC-24A, AT-803/VR (center-fed, broadband vertical dipole) AN/TRC-68A, AT-197/GR (discone with two radiator assemblages)
Tuning	Detent
Squelch	Noise or carrier
Type of Service	6K00A3E or 30K0A3E, X-mode operation
Weight	AN/VRC-24A, 28.1 kg (62 lb), AN/TRC-68A, 70.4 kg (155 lb)

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