

AN/GRC-103(V) Radio Set

Status: STD-A; NSN: 5820-00-935-4931 (AN/GRC-103(V)1)
 STD-A; NSN: 5820-00-116-6029 (AN/GRC-103(V)2)
 STD-A; NSN: 5820-00-116-6030 (AN/GRC-103(V)3)
 STD-A; NSN: 5820-01-081-8866 (AN/GRC-103(V)4)

Reference: TM 11-5820-540-12

General Information

The AN/GRC-103 is a compact, transportable UHF-FM radio set which provides facilities for multichannel transmission and reception of PCM signals. It will accommodate up to 24 telephone channels when used with appropriate PCM multiplex equipment. The multichannel radio system can be secured by using Electronic Key Generator TSEC/KG-27. In various configurations, the AN/GRC-103 can be employed as radio terminals or repeater stations. The difference between the models is the frequency range of bands I, II, III, and IV.

Technical Characteristics

Frequency Range-----Band I, 220 to 404.5 MHz
 Band II, 394.5 to 705 MHz
 Band III, 695 to 1000 MHz
 Band IV, 1350 to 1850 MHz

Frequency Separation
 Transmit to Receive-----16.5 MHz

Planning Range-----80 km (50 mi)

Number of Channels-----Band I, 369
 Band II, 621
 Band III, 610
 Band IV, 1,000

Power Input-----115 V AC, 47 to 420 Hz

Power Output-----15 to 25 W

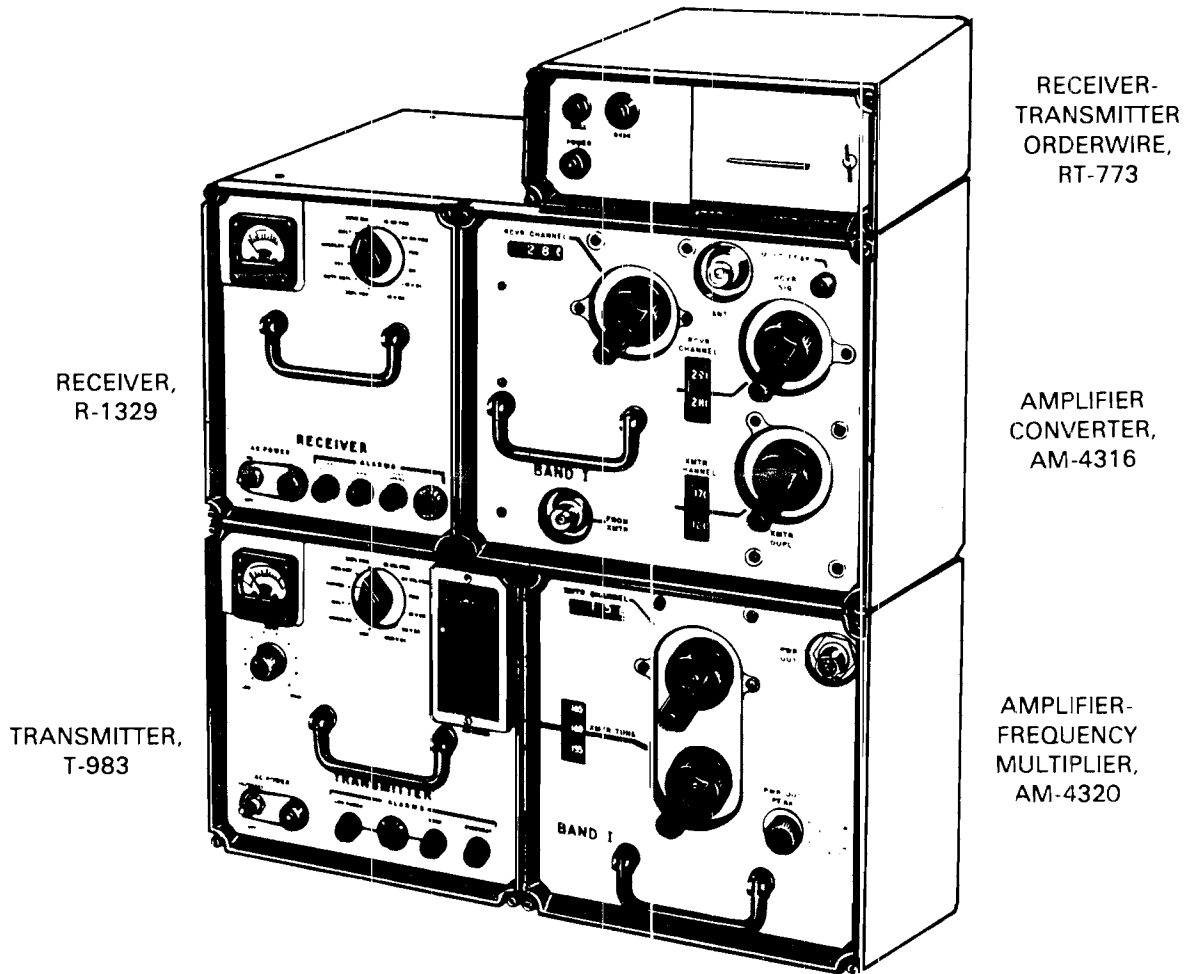
Antenna-----Combination of Mast AB-952/GRC-103 and
 either the AS-1852/GRC-103, Band I;
 AS-1853/GRC-103, Band II; AS-1854/
 GRC-103, Band III; or AS-3047()/
 GRC-103, Band IV

Tuning-----Continuous

Type of Service-----500KF9W (designed for use with
 multichannel PCM equipment only)

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

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RECEIVER,
R-1329

TRANSMITTER,
T-983

RECEIVER-
TRANSMITTER
ORDERWIRE,
RT-773

AMPLIFIER
CONVERTER,
AM-4316

AMPLIFIER-
FREQUENCY
MULTIPLIER,
AM-4320