

AN/GRC-143 Radio Set

Status: STD-A; NSN: 5820-00-926-7355

Reference: TM 11-5820-595-12

General Information

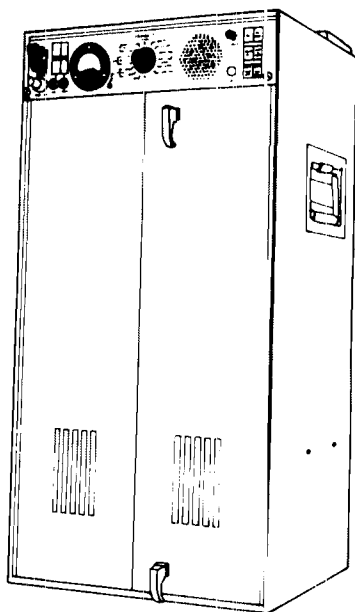
The AN/GRC-143 is a general purpose, FM tactical radio set which provides duplex operation. The radio set can be used for diffraction and tropospheric scatter modes of propagation at ranges to 161 km (100 mi), when used with a suitable antenna. The AN/GRC-143 is compatible with PCM multiplex equipment for 12- or 24-channel full-duplex operation. (Refer to the matrix below for major components and equipment configurations.)

Technical Characteristics

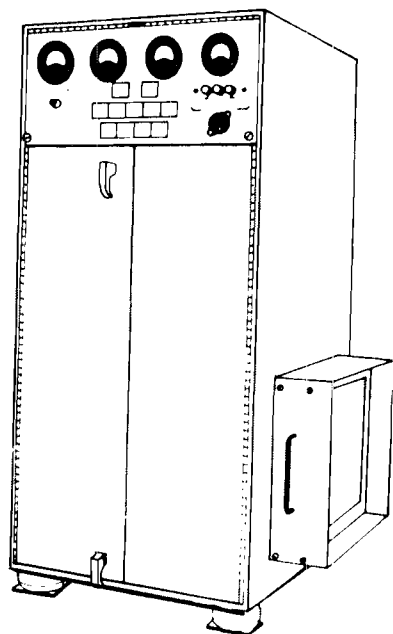
Frequency Range-----4400 to 5000 MHz
 Power Output-----1 kw
 Power Requirement-----115/230 V AC, 47 to 63 Hz, 5.37 kw
 Planning Range-----161 km (100 mi)
 Antenna-----AN/TRA-37 (not included)
 Type of Service-----3200K79W (PCM equipment only)
 Weight-----326.4 kg (719 lb)

EQUIPMENT CONFIGURATIONS						
NOMEN	AN/GRC-143	AN/GRC-106	AN/TRA-37	CV-425/11	Power Unit	Weight
AN/TRC-112	1	1	2	1	PU-332A/G	1,168 kg (2,572 lb)
AN/TRC-121	2	1	4	2	PU-405	2,347 kg (5,170 lb)

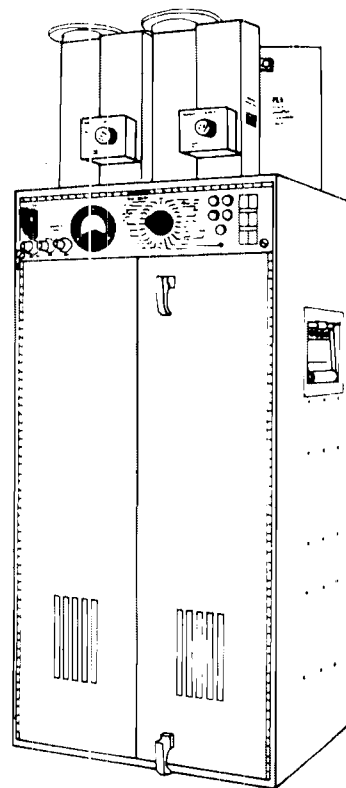
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TRANSMITTER, RADIO
T-961/GRC-143



AMPLIFIER, RADIO FREQUENCY
AM-6090/GRC-143



RECEIVER, RADIO
R-1287/GRC-143