

AN/ARC-116 Radio Set

Status: STD-B; NSN: 5821-00-935-5073

Reference: TB 43-0123
TM 11-5821-261-20

General Information

The AN/ARC-116 is an airborne, VHF/UHF-AM radio receiving-transmitting set which contains a multichannel, electrically tunable, main receiver and transmitter, a fixed-tuned guard receiver and, when used with external equipment, provides a direction finding capability. The guard receiver is fixed tuned in the 238 to 248 MHz frequency range. When operated with other equipment, a capability for receiving and transmitting clear-voice or X-mode communications between air-to-ground and air-to-air stations exists. The radio set can be used as a relay link as it retransmits clear-voice communications.

Technical Characteristics

Frequency Range-----	225.00 to 399.95 MHz
Planning Range-----	LCS
Number of Channels-----	3,500
Power Input-----	Normal, 27.5 V DC +1.5, -3.5; degraded, 21.0 V DC and up to but not including 24.0 V DC
Power Source-----	Aircraft power system
Power Output-----	Normal, 10 W nominal, 8 W minimum, 15 W maximum; degraded, 4 W at 24.0 V DC and operable at 21.0 V DC
Antenna-----	Aircraft UHF vertically polarized, omnidirectional blade
Tuning-----	Digital, indirect synthesis
Type of Service-----	16K00A3E
Weight-----	3.5 kg (7.75 lb)

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