

AN/ARC-114 and AN/ARC-114A Radio Sets

Status: STD-A; NSN: 5821-00-935-5071 (AN/ARC-114)
 STD-A; NSN: 5821-00-165-2970 (AN/ARC-114A)

Reference: TB 43-0123
 TM 11-5821-259-24P

General Information

The AN/ARC-114() is an airborne, VHF-FM radio receiving-transmitting set that is compatible with the AN/VRC-12 series of ground tactical radio sets. The radio set contains a multichannel, electronically tunable main receiver and transmitter, a fixed-tuned guard receiver, and has a homing capability. The guard receiver is fixed tuned in the 40.00 to 41.00 MHz frequency range. The radio set, when operated with external equipments, can be used for receiving and transmitting clear-voice or X-mode communications between air-to-ground and air-to-air stations. With the additional capability for retransmission of clear-voice or X-mode communication, the radio can be used as a relay link. The AN/ARC-114A is a product-improved version of the AN/ARC-114 that provides squelch switching, front panel water sealing, audio limiting, and guard receiving capability while receiving secure voice.

Technical Characteristics

Frequency Range-----	30.00 to 75.95 MHz
Planning Range-----	LCS
Number of Channels-----	920
Power Input-----	27.5 V DC \pm 0.5
Power Source-----	Aircraft power system
Power Output-----	10 W minimum, 27.5 V DC input; 6 W minimum, 24 V DC input; 4 W minimum, 21 V DC input
Antenna-----	Aircraft VHF-FM blade or vertically polarized omnidirectional whip, 52-ohm input and output
Tuning-----	Digital, indirect synthesis
Type of Service-----	5K00F3E
Weight-----	3.1 kg (6.8 lb)

AN/ARC-114 Radio Set

