

## AN/ARC-115 and AN/ARC-115A(V)1 Radio Sets

Status:       STD-B; NSN: 5821-00-935-5072 (AN/ARC-115)  
               STD-A; NSN: 5821-01-057-4037 (AN/ARC-115A(V)1)

Reference:    TB 43-0123  
               TM 11-5821-260-12

### General Information

The AN/ARC-115 is an airborne, VHF-AM radio receiving-transmitting set which contains a multichannel, electronically tuned, main receiver and transmitter, and a fixed-tuned guard receiver. It has a direction finding capability when used with external equipment. The guard receiver is fixed tuned in the 119.0 to 124.0 MHz frequency range with the preset crystal control normally set at 121.5 MHz (guard emergency frequency). The radio set, when operated with external equipment, can be used for receiving and transmitting clear-voice communications between air-to-ground and air-to-air stations. The AN/ARC-115A(V)1 is a product-improved version of the AN/ARC-115 that provides secure operation and an emergency frequency transmit selector switch. An additional capability for retransmission of clear-voice communications allows usage of the radio as a relay link.

### Technical Characteristics

Frequency Range-----116.000 to 149.975 MHz  
 Planning Range-----LOS  
 Number of Channels-----1,360  
 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  
 Antenna-----Aircraft VHF-AM omnidirectional, 52-ohm  
                                 input and output  
 Tuning-----Digital, indirect synthesis  
 Type of Service-----6K00A3E  
 Weight-----3.0 kg (6.5 lb)

# AN/ARC-115 Radio Set

