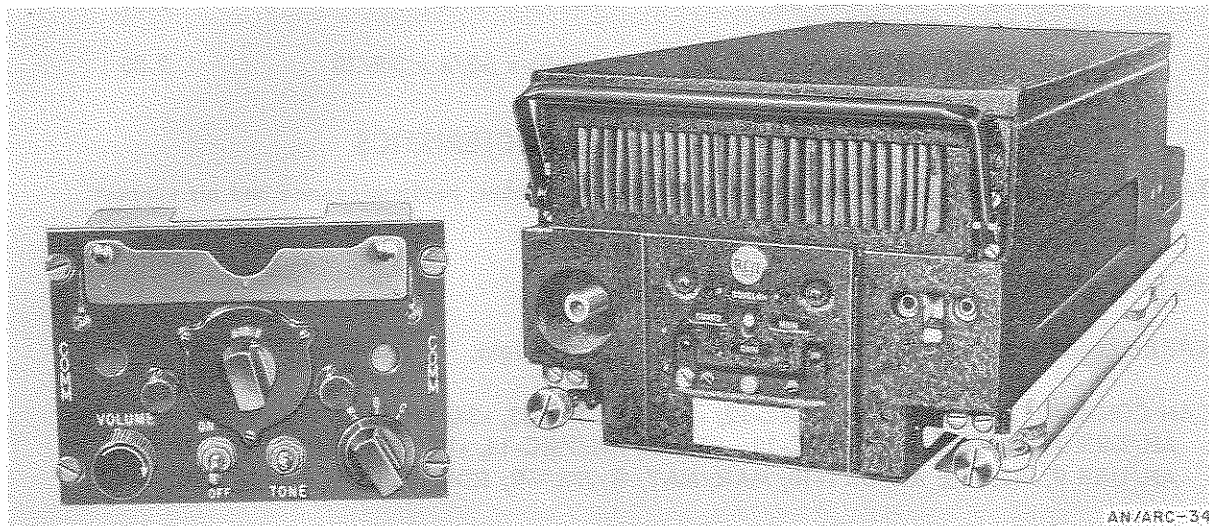


STATUS: Substitute Standard
CLASSIFICATION OF EQUIPMENT: Restricted
USING SERVICE: Air Force
DATE OF THIS SHEET: 26 May 52

AN/ARC-34

RADIO SET



Radio Set AN/ARC-34 is a miniaturized version of Radio Set AN/ARC-33. It is an airborne, combination transmitter-receiver unit for two-way, air-to-air, and air-to-ground communication in the u-h-f range 225.0 to 399.9 mc.

The transmitter and receiver both operate on any one of 20 preset, crystal-controlled channels (of a total of 1,750) which are spaced 100 kc in the u-h-f band. One guard channel can also be monitored simultaneously with normal operation of the equipment.

The equipment is designed to operate with antennas already installed in aircraft which operate with 52-ohm coaxial cable, such as RG-8/U.

AN/ARC-34	INSTRUCTION LITERATURE: Not Available
RADIO SET	CLASSIFICATION OF EQUIPMENT: Restricted USING SERVICE : Air Force DATE OF THIS SHEET : 26 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Receiver-Transmitter RT-263/ARC-34	7-9/10 x 10-3/5 x 21-1/2	45.87
1	Mounting MT-1099/ARC-34 (Included in Rec-Trans.)	Not Available	2.69
1	Radio Set Control C-1057/ARC-34	4-3/10 x 5-3/4 x 3-9/10	2.00

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Normally used in fighter interceptor, bomber, reconnaissance and air support aircraft.

INSTALLATION: Airborne, shock mounted.

APPROXIMATE RANGE (IN MILES): (Nominal) Line of sight.

CAN COMMUNICATE WITH: AN/ARC-12, -19, -27, -30, -33, -34; AN/GRC-16, -27, -29, -30, -32; AN/GRR-7; AN/GRT-3; AN/MRC-12, -20, -22; AN/PRC-14, -17, -20; AN/TRC-32; AN/URC-4; AN/URR-9, -12, -13; AN/URT-10; MAR; MAY; R-278/GR; RDR; RDZ; SCR-616; TED.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: A total of 1,750 channels, spaced 100 kc apart, in the frequency range 225.0 to 399.9 mc are available. It is designed to operate on any 20 preset crystal-controlled channels.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice or tone.

POWER OUTPUT: Transmitter: 10 w.
Receiver: 750 mw into 200 ohm impedance.

POWER REQUIREMENTS: 400 w, 27.5 v, (15 amp) dc.

PHYSICAL CHARACTERISTICS

Radio Set AN/ARC-34 measures 8 x 10-1/2 x 21-1/2 inches, net weight 50.56 pounds, volume 1.05 cu ft. Packed for either domestic or export shipment: total weight 55 pounds, total volume 1.1 cu ft. Shipped in 1 package.