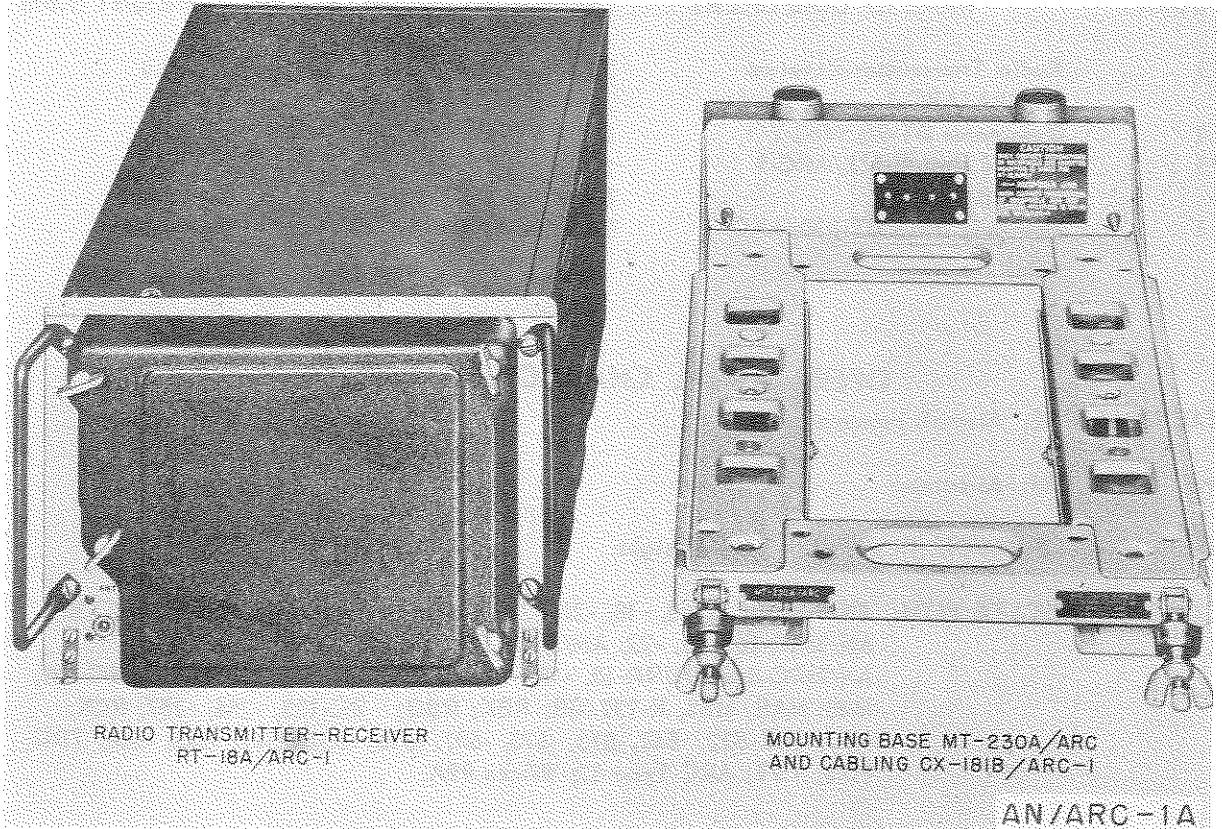


STATUS: Limited Standard
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Navy
 DATE OF THIS SHEET: 9 May 52

AN/ARC-1A

RADIO SET



RADIO TRANSMITTER-RECEIVER
 RT-18A/ARC-1

MOUNTING BASE MT-230A/ARC
 AND CABLING CX-181B/ARC-1

AN/ARC-1A

Radio Set AN/ARC-1A is a general purpose low power v-h-f, a-m (voice) transceiver for radiotelephone communication between aircraft, and from aircraft to ground stations. Remote selection of any one of ten preset crystal-controlled channels is possible. The receiver permits monitoring on the guard channel while operating on a main communication channel.

The equipment is designed to use a quarter-wave base-fed rod or mast-type antenna, which should be installed as nearly as possible along the centerline of the plane.

AN/ARC-1A	INSTRUCTION LITERATURE: AN 16-30ARC1-7
	CLASSIFICATION OF EQUIPMENT:Unclassified
RADIO SET	USING SERVICE : Navy DATE OF THIS SHEET : 9 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter-Receiver RT-18A/ARC-1	24-3/4 x 10-7/8 x 9-1/32	40.0
1	Dynamotor DY-9B/ARC-1	5-1/4 x 3-1/2 x 9-3/16	5.7
*1	Control Unit C-115/ARC-1 or C-45/ARC-1	2-1/4 x 6 x 6-1/2 8-3/8 x 3-3/8 x 2-5/8	1.0 0.2
1	Mounting Base MT-230/ARC	24 x 10-19/32 x 3-7/8	4.13
	* Not supplied.		

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Aircraft communications.

INSTALLATION: Airborne.

APPROXIMATE RANGE (IN MILES): Line of sight.

CAN COMMUNICATE WITH: AN/ARC-1, -3, -5, -18, -28, -36; AN/CRC-2; AN/FRC-7; AN/GRC-30; AN/MRC-16, -20, -22; AN/PRC-17, -20; AN/TRC-7; AN/TRQ-1; AN/URC-4; AN/URR-10, -12, -21; AN/URT-7, -10; AN/VRC-1; BC-639, -640; MAR; MBS; R-137/GR; RBK; RBQ; RC-103, -256, -257; RCK; RCO; SCR-522, -542, -573, -575, -607, -616, -624, -641, -643, -644; TDG; TDQ; TDT; ARC Type 12; Wilcox 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 100 - 156.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: Transmitter: 8 w.
Receiver: 400 mw into 300 or 4000 ohm output (dual output).

POWER REQUIREMENTS: 504 w, 24-29 v, d c.

PHYSICAL CHARACTERISTICS

Radio Set AN/ARC-1A measures 24-3/4 x 10-7/8 x 9-1/32 inches.