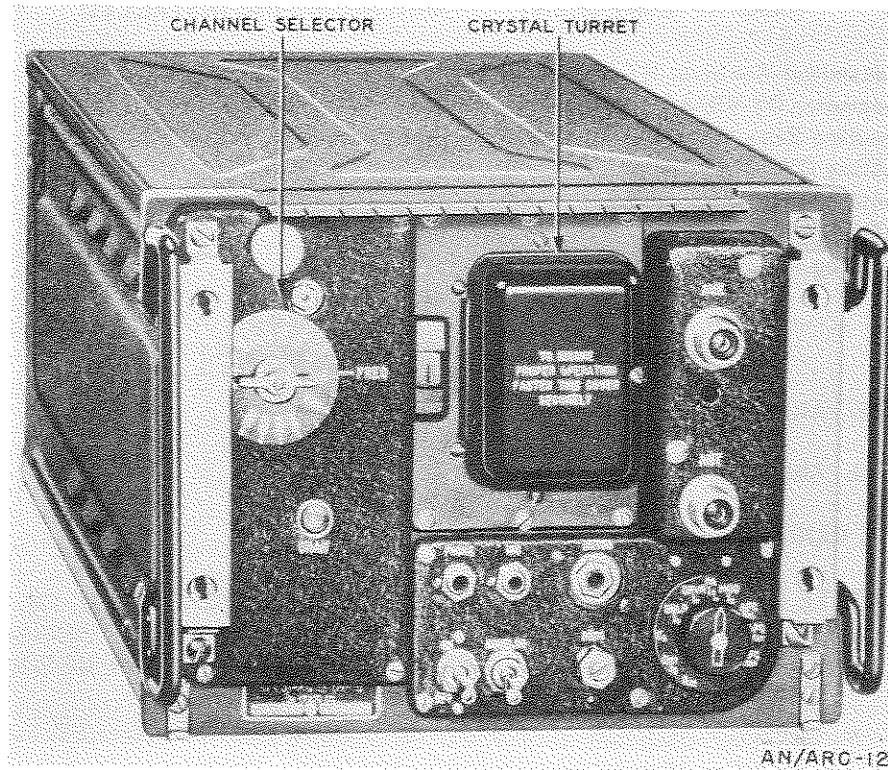


STATUS: Limited Standard
 CLASSIFICATION OF EQUIPMENT: Restricted
 USING SERVICE: Navy
 DATE OF THIS SHEET: 29 May 52

AN/ARC-12

RADIO SET



Radio Set AN/ARC-12 provides am (voice) facilities for communication between aircraft, or between aircraft, and ground installations.

This set has 10 preset crystal-controlled channels, one of which is a guard channel, with provision for monitoring the guard frequency while operating over one of the communication channels.

It is also a component of Radio Set AN/ARC-30, an airborne communications relay system, which consists essentially of two AN/ARC-12's receiving on one frequency and transmitting on a different frequency.

This equipment is functionally similar to the AN/ARC-1, except for the frequency range covered.

AN/ARC-12	INSTRUCTION LITERATURE: AN16-30ARC12-3
	CLASSIFICATION OF EQUIPMENT: Restricted
RADIO SET	USING SERVICE : Navy
	DATE OF THIS SHEET : 29 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Transmitter-Receiver RT-58/ARC-12	9-1/32 x 10-7/8 x 24-1/2	45.3
1	Dynamotor DY-9B/ARC-1	3-1/2 x 5-1/4 x 9-3/16	5.7
1	Mounting Base MT-230A/ARC-12	Not Available	4.1
1	Cabling CX-181B/ARC-1	" "	1.8
1	Control Unit C-115/ARC-1 or C-45/ARC-1	" "	1.0
1	Mounting Plate MT-4/ARR-2	" "	0.1

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Aircraft.

INSTALLATION: Airborne.

APPROXIMATE RANGE (IN MILES): 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: 225 - 350, 9 preset main frequencies and 1 guard frequency.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: Transmitter: 6 w.
Receiver: 500 mw.

POWER REQUIREMENTS: 24 v, dc(45 amp)intermittent*,(20.5 amp) continuous.

* The result of channel selection and non-continuous transmission.

PHYSICAL CHARACTERISTICS

Radio Set AN/ARC-12 measures 9-1/32 x 10-7/8 x 24-1/2 inches, net weight 58.8 pounds.