

STATUS: Standard

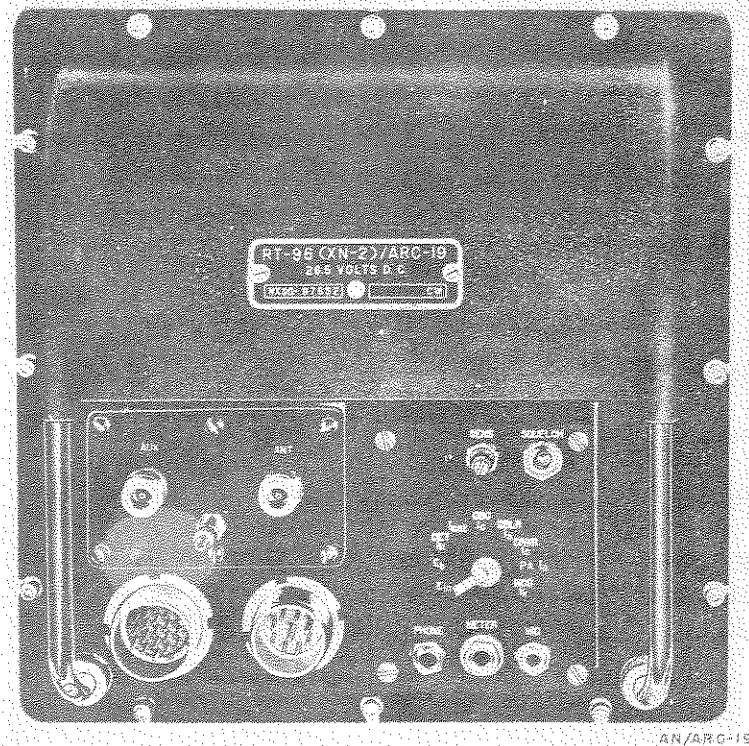
CLASSIFICATION OF EQUIPMENT: Restricted

USING SERVICE: Navy

DATE OF THIS SHEET: 29 May 52

AN/ARC-19

RADIO SET



AN/ARC-19

Radio Set AN/ARC-19 is an airborne am (voice, mcw) radio transmitter-receiver for v-h-f and u-h-f communications between aircraft, or between aircraft and ground stations. It is intended for radio-telephone use, tone operation being used only in emergencies.

This radio set is designed for remote control operation. The control unit facilitates automatic selection of any one of nine preset crystal-controlled main channels, and a guard channel; manual adjustment of the nine channels provides possible selection of 875 frequencies and a guard frequency.

The receiver circuit includes a separate r-f unit which permits monitoring on the guard channel while operating on a main channel.

An antenna of the broad-band non-directional type is used, and the change from receiving to transmitting is accomplished by push button control.

AN/ARC-19	INSTRUCTION LITERATURE: AN 16-30ARC19-7 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-96/ARC-19	13-5/8 x 11-5/8 x 26-1/8	92.5
1	Radio Set Control C-590/ARC-19	6-3/4 x 5-3/4 x 6-5/8	5.1
1	Dynamotor, DY-62/ARC-19	4-9/16 x 3-5/8 x 7-13/16	6.5
1	Mounting MT-716/ARC-19	Not Available	2.1

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 - 400.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, (mcw in emergency).

POWER OUTPUT: Transmitter: 9 w.
 Receiver: 100 mw into a 300 ohm load.

POWER REQUIREMENTS: 344 w, 26.5 v d-c aircraft supply.

PHYSICAL CHARACTERISTICS

Radio Set AN/ARC-19 measures 16-3/8 x 11-5/8 x 26-1/8 inches.