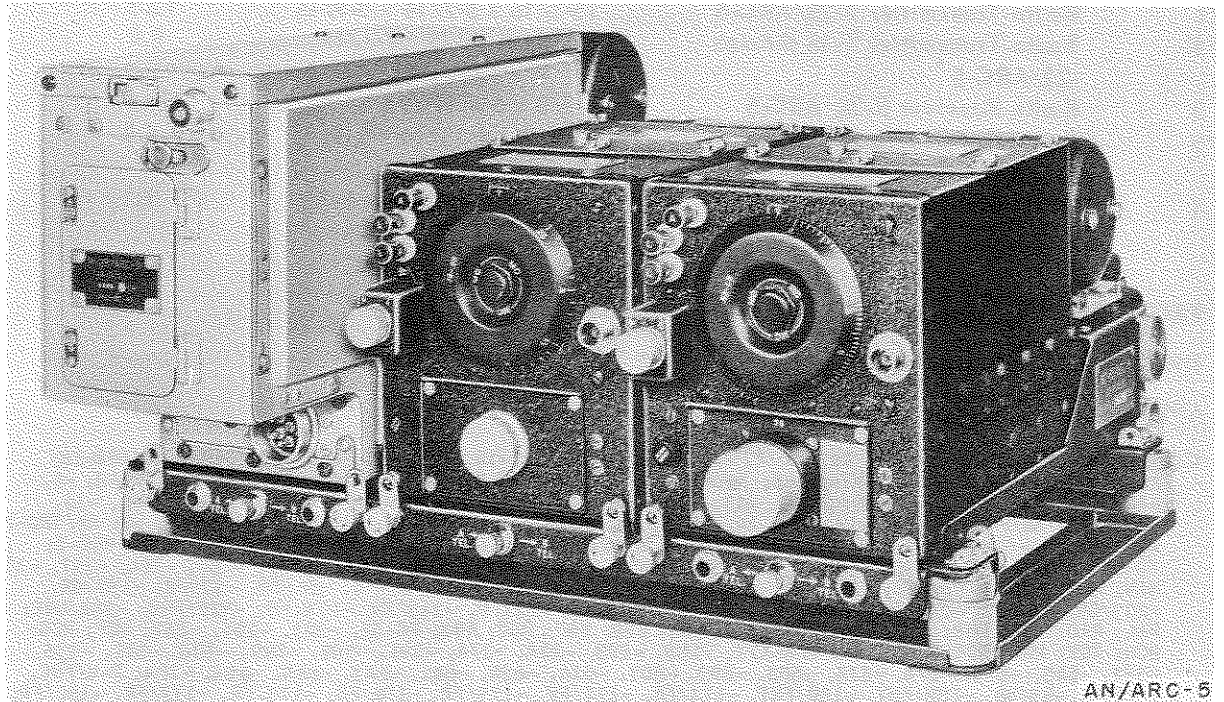


STATUS: Limited Standard  
 CLASSIFICATION OF EQUIPMENT: Unclassified  
 USING SERVICE: Navy  
 DATE OF THIS SHEET: 23 May 52

# AN/ARC-5

RADIO EQUIPMENT



Radio Equipment AN/ARC-5 is a multichannel l-f, m-f, h-f and v-h-f, am (cw, mcw, voice) transmitting and receiving equipment assemblage for installation in aircraft for general air-to-ground communication, and for reception of instrument landing and navigational signals. It is a multiple-unit equipment, the number of transmitters and receivers employed (limit of five receivers and eight transmitters) depend upon the type of installation.

The l-f, m-f, and h-f transmitters and receivers cover their respective frequency ranges by means of five independent units, any one of which may be operated individually or all simultaneously. Five additional transmitters with lower frequency coverage may be used for special purposes. For v-h-f coverage one transmitter and receiver is used in radiotelephone applications.

Frequency control is by crystal-oscillator; the l-f, m-f, and h-f units are of the single frequency type, while the v-h-f transmitter and receiver employs four preset channels. The l-f, m-f, and h-f equipment may be remotely controlled if desired, however, the v-h-f equipment is designed specifically for operation by remote control.

<h1>AN/ARC-5</h1>	INSTRUCTION LITERATURE: NavAer 08-50-95, AN 08-10-195
	CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy	
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RADIO EQUIPMENT

### MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter T-23/ARC-5	15-3/16 x 5-7/16 x 8-9/16	12.3
*5	Radio Transmitter T-18 through -22/ARC-5	12-3/4 x 5-1/4 x 7-1/16	9.0
1	Radio Receiver R-28/ARC-5	8-5/8 x 6 x 17-7/8	13.6
*5	Radio Receiver R-23 through -27/ARC-5	11-1/2 x 4-13/16 x 5-5/8	6.0
1	Modulator MD-7/ARC-5	7-11/16 x 10-3/16 x 8-7/8	9.1

\* Quantity dependent upon type installation.

### OPERATIONAL CHARACTERISTICS

TACTICAL USE: Aircraft.

INSTALLATION: Airborne.

APPROXIMATE RANGE (IN MILES): Short.

CAN COMMUNICATE WITH: AN/ARC-1, -2, -3, -5, -8, -9, -18, -21, -25, -26, -28, -36; AN/ARR-15; AN/ART-13; AN/CRC-2; AN/CRT-3, -5; AN/FRC-7, -10; AN/FRR-3, -4, -7, -12, -28, -32; AN/FRT-5, -6, -10, -15, -17, -18, -19; AN/GRC-9, -13, -26, -30; AN/GRR-2, -3, -5; AN/GRT-2; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -17, -19, -20; AN/SRC-3; AN/SRR-3, -9, -11, -12, -13; AN/SRT-1, -3, -4; AN/TRC-7; AN/TRQ-1; AN/URC-4; AN/URR-10, -21, -22, -23; AN/URT-2, -3, -4, -7, -10; AN/VRC-1, -4; AN/VRR-2; BC-191, 312, -329, -339, -342, -348, -365, -401, -447, -610, -639, -640, -779, -787, -794, -797, -1004; MAW; MBS; MQ; OA-58/FRC, -59/FRC, -60A/FRT, -60B/FRT; R-62/PR, -80/PR, -96/SR, -129/U, -137/GR, -203/SR, -205/U, -206/PR, -208/FR, -209/FR, -210/U, -211/U, -213/SR, -274/FR, -320/FRC, -388/URR; RAL; RAO; RAS; RBB; RBC; RBG; RBH; RBK; RBM; RBO; RBP; RBQ; RBS; RC-52, -103, -256, -257; RCF; RCG; RCH; RCK; RCO; RDE; RDM; REA; SCR-177, -188, -193, -244, -274, -281, -399, -499, -506, -522, -536, -542, -543, -573, -574, -575, -585, -593, -607, -616, -624, -641, -643, -644, -694, -704; T-4/FRC, -5/FRC, -83/SR, -158/FRT, -159/FRT, -171/FR, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TAB; TAJ; TAQ; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBW; TBX; TCB; TCC; TCE; TCH; TCK; TCO; TCP; TCS; TCY; TCZ; TDD; TDE; TDF; TDG; TDH; TDK; TDM; TDO; TDQ; TDT; TEB; TEC; TEF; AR-88 (RCA); ARC Type 12; Collins 18S-4 (AF Model); Collins 32V-2, 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; Marconi TH-41-8; National HRO-50; Westinghouse Type MW; Wilcox 96D, 99A.

### TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: Transmitting: 2.1 - 9.1 and 100 - 156 in the ranges below:

2.1 - 3.0	4.0 - 5.3	7.0 - 9.1
3.0 - 4.0	5.3 - 7.0	100 - 156

Receiving: 0.19 - 9.1 and 100 - 156 in the ranges below:

0.19 - 0.55	1.5 - 3.0	6.0 - 9.1
0.52 - 1.5	3.0 - 6.0	100 - 156.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, mcw, cw.

POWER OUTPUT: 100 to 156 mc: 6 w on voice.  
 2.1 to 3.0 mc: 16 w on cw; 7 w on mcw; 5 w on voice.  
 3 to 4 mc: 24 w on cw; 11 w on mcw; 6 w on voice.  
 4 to 5.3 mc: 31 w on cw; 16 w on mcw; 10 w on voice.  
 5.3 to 7 mc: 36 w on cw; 18 w on mcw; 11 w on voice.  
 7 to 9.1 mc: 39 w on cw; 20 w on mcw; 13 w on voice.

POWER REQUIREMENTS: 24-28 v,d-c aircraft supply.

### PHYSICAL CHARACTERISTICS

Information on Radio Equipment AN/ARC-5 not available.