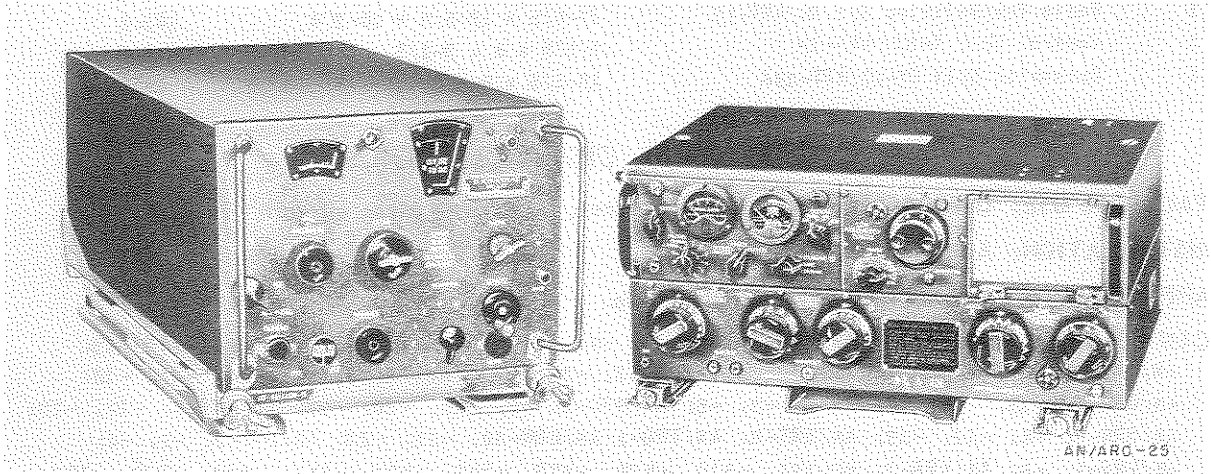


STATUS: Limited Standard  
 CLASSIFICATION OF EQUIPMENT: Unclassified  
 USING SERVICE: Air Force  
 DATE OF THIS SHEET: 7 Jun 52

# AN/ARC-25

RADIO SET



Radio Set AN/ARC-25 is a liaison, airborne, two-way high power, long range, a-m, h-f radio transmitting and receiving equipment for air-to-ground and air-to-air communication. The transmitter and receiver will operate on voice, tone or cw signals.

This set consists of one radio transmitting set (AN/ART-13), a control unit, one radio receiving set (AN/ARR-15), a mounting base, and interconnecting cables.

Radio Transmitting Set AN/ART-13 normally covers the frequency range 2 to 18 mc, however, a l-f unit is available (on special order) to cover the 200 to 500 kc ranges.

It operates on 10 preset channels which can be crystal calibrated but not crystal-controlled.

Radio Set AN/ARR-15 is essentially a superheterodyne receiving equipment having a crystal-calibrated oscillator operating on any one of 10 preset channels in the 1.5 mc range. It can be operated locally, or from a remote position using Radio Set Control C-733/ARR-15 (not supplied).

Radio Set AN/ARC-25 has an antenna matching network which permits operation with a wide variety of antennas. Normally fore and aft, inverted L-or T-type antennas are used, however, a trailing wire is excellent if available.

<b>AN/ARC-25</b>	INSTRUCTION LITERATURE: Not Available
	CLASSIFICATION OF EQUIPMENT: Unclassified USING SERVICE : Air Force
RADIO SET	DATE OF THIS SHEET : 7 Jun 52

**MAJOR COMPONENTS**

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1 *	Radio Receiver R-105-A/ARR-15	Not Available	Not Available
1 *	Dynamotor DY-34/ARR-15	" "	" "
1 *	Mounting Base MT-461/ARR-15	10-7/8 x 9-3/8 x 21-9/16	43.0
1	Radio Transmitting Set AN/ART-13	23-5/8 x 13-5/8 x 10-3/4	103.6
1	Control Unit C-87/ART-13	3-3/5 x 8 x 3-1/5	1.5
1	Dynamotor Unit DY-17/ART-13A	13-1/5 x 8-4/5 x 7-1/5	28.0

\* One Unit

**OPERATIONAL CHARACTERISTICS****TACTICAL USE:** Used in all bombers, air sea rescue, trainer and cargo aircraft.**INSTALLATION:** Aircraft, shock mounted.**APPROXIMATE RANGE (IN MILES):** Medium-long.

**CAN COMMUNICATE WITH:** AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/ART-13; AN/CRT-3; AN/FRC-10; AN/FRR-3, -4, -7, -12, -28, -32; AN/FRT-5, -6, -15, -17, -18; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -19, -20; AN/SRR-3, -8, -12, -13; AN/SRT-4; AN/TRQ-1 AN/URR-10, -22, -23; AN/URT-2, -3, -4; AN/VRC-1, -4; AN/VRR-2; BC-191, -312, -339, -342, -348, -401, -447, -610, -779, -794, -1004; MBS; MQ; OA-58/FRC, -59/FRC, -60A/FRT, -60B/FRT; R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/U, -206/PR, -209/FR, -209/FR, -210/U, -211/U, -213/SR, -274/FRR, -320/FRC, -388/URR; RAL; RAO; RAS; RBB; RBC; RBG; RBH; RBM; RBO; RBP; RBS; RC-52; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -188, -193, -244, -274, -281, -399, -499, -506, -536, -543, -585, -593, -607, -694, -704; T-4/FRC, -83/SR, -158/FRT, -159/FRT, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBW; TBX; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCZ; TDE; TDF; TDH; TDN; TDO; TEB; TEC; TEF; AR-88 (RCA); Collins 18S-4 (AF Model); Collins 32V-2, 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; Marconi TH-41-B; National HRO-50; Westinghouse Type MW; Wilcox 96D, 99A.

**TECHNICAL CHARACTERISTICS**

**FREQUENCY RANGE IN MEGACYCLES:** Transmitter: 10 preset channels 2 - 18 (crystal calibrated).  
Receiver: 10 preset channels 1.5 - 18.5.

**TYPE MODULATION:** Am.**TYPE OF SIGNAL:** Voice, tone, cw.

**POWER OUTPUT:** Transmitter: 30 w at 2 mc to 65 w at 18 mc.  
Receiver: 500 mw (maximum).

**POWER REQUIREMENTS:** 1,150 w, 28.5 v, (40.3 amp) dc .**PHYSICAL CHARACTERISTICS**

Radio Set AN/ARC-25 measures 51-1/3 x 13-5/8 x 21-9/16 inches, net weight 176.1 pounds, volume 3.26 cu ft. Packed for either domestic or export shipment: total weight 229 pounds, total volume 3.56 cu ft. Shipped in 3 packages.