

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

AN/ARC-2

RADIO SET



Radio Set AN/ARC-2 is a general purpose medium power, m-f and h-f, am (voice, cw, and mcw) transceiver designed for installation in all types of Naval aircraft. Provides manual selection by pilot or radio operator of eight preset master-oscillator controlled channels or remote control of the autotune system of channel selection.

The equipment will operate satisfactorily up to an altitude of 40,000 feet above sea level.

AN/ARC-2	INSTRUCTION LITERATURE: AN 16-30ARC2-3
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Transmitter-Receiver RT-91/ARC-2	7-7/8 x 21-1/8 x 15 11/16	69.5
1	Mounting Base MT-421/AR	5-3/16 x 23-15/32 x 16-1/2	6.0
1	Dynamotor DY-31/ARC-2	4-1/16 x 9-3/32 x 4-1/16	9.5
2	Control Box C-243/ARC-2	5-15/16 x 3-1/2 x 3-1/4	2.0
	C-244A/ARC-2	8-1/8 x 3-5/8 x 3-1/4	1.3
1	Control Panel C-245A/ARC-2	7-23/32 x 6 x 2-1/4	1.3

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Naval aircraft.

INSTALLATION: Airborne.

APPROXIMATE RANGE (IN MILES): Medium.

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, -208/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; TCF; TCS; TCZ; TDE; TDF; TDH; TDH; 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: 2.0 - 9.05.

Band A: 2.1 - 2.9

Band C: 4.1 - 5.9

Band B: 3.1 - 4.4

Band D: 6.1 - 8.9.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, cw, mcw.

POWER OUTPUT: Transmitter: 17-30 w.

Receiver: 500 mw into 300 ohm output.

POWER REQUIREMENTS: 530 w, 26.5 v dc. (Must withstand surge of 60 amp for 0.5 sec).

PHYSICAL CHARACTERISTICS

Radio Set AN/ARC-2 measures 9-1/8 x 23-15/32 x 16-1/2 inches, net weight 90 pounds.