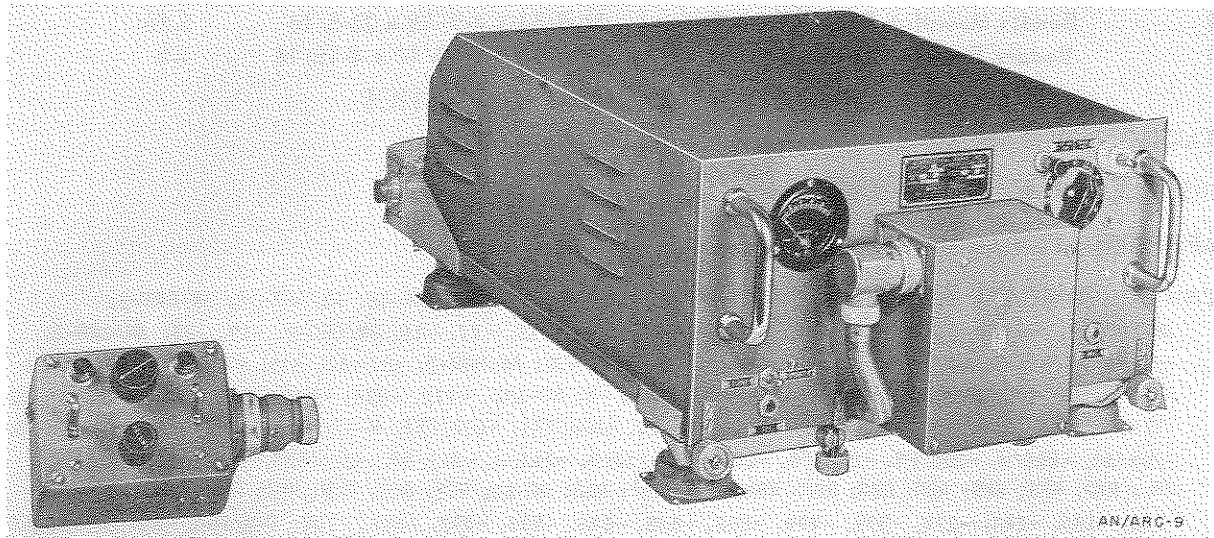


STATUS: Limited Standard
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Air Force
 DATE OF THIS SHEET: 26 May 52

AN/ARC-9

RADIO SET



Radio Set AN/ARC-9 is an airborne liaison two-way radio set for long range air-to-air and air-to-ground communication. Equipment operates on amplitude modulated signals only. Ten crystal controlled channels are available as follows: 3105.0, 4220.0, 4495.0, 4575.0, 4917.5 (or 4465.0), 5588.0, 5662.0, 6210.0, 6440.0 and 6500.0 kc.

The radio frequency power output from the transmitter is 50 w at 100% modulation. Two independent audio channels are available from the receiver, each supplying 300 milliwatts to a 500 ohm resistive load. Interphone facilities are provided between pilots when transmitter switch is in "stand-by" position. An antenna matching system is included which will couple the equipment to any type of commonly used aircraft antenna, which will operate on the frequencies covered by this set.

Radio Set AN/ARC-9X is identical to AN/ARC-9 except that the AN/ARC-9X Model is supplied with a dynamotor which will operate on either 12.5 or 25 v, dc; the AN/ARC-9 operates from 25 v, dc, 20 amp, 500 w; AN/ARC-9X, 25 v, dc, 20 amp, 500 w; 12.5 v, dc, 40 amp, 500 w.

AN/ARC-9

INSTRUCTION LITERATURE:
TO-16-30ARC-9-3
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE : Air Force
DATE OF THIS SHEET : 26 May 52

RADIO SET

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	(12 or 24 volt) Bendix Communication Unit RTA-1B	15-11/16 x 7-11/16 x 22-13/16	68.5
1	Bendix Mounting Base MT-68-E	16-5/64 x 4-9/16 x 23-5/16	5.55
1	Bendix Remote Control Unit MS-44	3-15/16 x 2-13/16 x 4-15/16	1.5

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Normally used in cargo and transport aircraft.

INSTALLATION: Aircraft, shock-mounted.

APPROXIMATE RANGE (IN MILES): 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, -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; 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, -399, -499, -506, -536, -543, -585, -593, -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; TBW; TBX; TCB; TCC; TCE; TCH; TCK; TCO; TCS; TCZ; TDE; TDF; TDH; TDM; TDO; TEB; TEC; TEF; AR-89 (RCA); Collins 18S-4 (AF Model); Collins 32V-2, 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; Marconi TH-41-B; National HR0-50; Westinghouse Type MW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 10 channels, crystal-controlled as follows: 3.105, 4.22, 4.495, 4.575, 4.9175 (or 4.465), 5.588, 5.662, 6.21, 6.44 and 6.5.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: Transmitter: 50 w at 100% modulation.
Receiver: 300 mw into 500 ohm load (two channels available).

POWER REQUIREMENTS: 500 w, 24-28 v, (20 amp) dc (maximum).
AN/ARC-9; 500 w, 25 v, (20 amp) dc.
AN/ARC-9X; 500 w, 12.5 v, (40 amp) dc.

PHYSICAL CHARACTERISTICS

Radio Set AN/ARC-9, -9X measures 19-5/8 x 7-11/16 x 23-5/16 inches, net weight 83.608 pounds, volume 2.1 cu ft. Packed for either domestic or export shipment: total weight 105 pounds, total volume 2.55 cu ft. Shipped in 1 package.