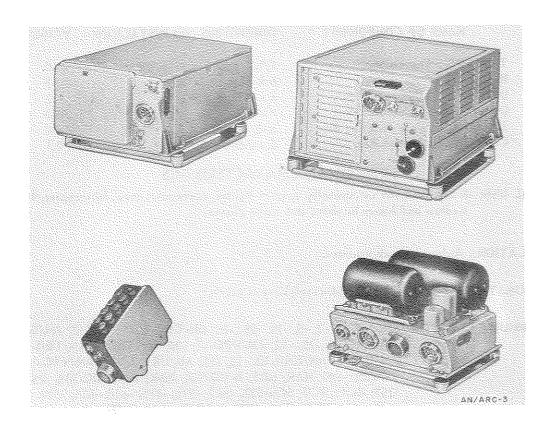
STATUS: Standard

CLASSIFICATION OF EQUIPMENT :Unclassified USING SERVICE : Air Force, Army, Navy

DATE OF THIS SHEET: 28 Apr 52

AN/ARC-3

RADIO SET



Radio Set AN/ARC-3 is an airborne command v-h-f communication system for air-to-air and air-to-ground communication. It operates on any eight preset crystal-controlled channels in the 100 to 156 mc range, by push buttons located on the transmitter and/or on the remote Control Box C-118/ARC-3.

The crystals are capable of operating under conditions of high humidity and temperature.

The transmitter has an output impedance of 52 ohms matching low impedance transmission lines such as RG-8/U.

It is normally operated with Antenna Mast AN-104-B.

Power is supplied by aircraft batteries at 28 volts.

AN/ARC-3

RADIO SET

INSTRUCTION LITERATURE:

TO 16-30ARC-3
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Air Force, Army, Navy

DATE OF THIS SHEET: 28 Apr 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
george #	T-67/ARC-3 Transmitter	7-1/2 × 12-1/8 × 15-1/4	21.0
yang .	R-77/ARC-3 Receiver	6 × 11 × 14-5/16	20.5
r r	DY-22/ARC-3 Dynamotor Unit	4 × 3-7/16 × 7-3/16	4.8
1	DY-21/ARC-3 Dynamotor Unit	4 × 3-7/16 × 7-1/2	8.4
Berna	J-68/ARC-3 Power Junction Box	$5-3/16 \times 8-3/8 \times 10-11/32$	6.7
q.	C-118/ARC-3 Control Box	6 × 2-5/8 × 6-7/8	2.1

OPERATIONAL CHARACTERISTICS

TACTICAL USE: A command vhf set normally used in fighter, reconnaissance, interceptor, light, medium and heavy bombers and cargo planes.

INSTALLATION: Airborne, shock mounted.

APPROXIMATE RANGE (IN MILES): (Nominal) Line of sight.

CAN COMMUNICATE WITH: AN/ARC-1, -3, -5, -18, -28, -36; AN/CRC-2; AN/FRC-7; AN/GRC-30;

AN/MRC-16, -20, -22; AN/PRC-17, -20; AN/TRC-7; AN/TRQ-1; AN/URC-4; AN/URR-10, -12, -21; AN/URT-7, -10; AN/VRC-1; BC-639, -640; MAR; MBS; R-137/GR; RBK; RBQ; RC-103, -256, -257; RCK; RCO; SCR-522, -542, -573, -575, -607, -616, -624, -641,

-643, -644; TDG; TDQ; TDT; ARC Type 12; Wilcox 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 100 - 156 on any 8 preset crystal-controlled channels.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, tone.

POWER OUTPUT: Transmitter: 8 w.

Receiver: 600 mw into 50 or 600 ohm load impedance.

POWER REQUIREMENTS: Starting; 3324 w, 28 - 32 v, (118 amp) dc.

Continuous operation; 385 w, (13.75 amp) dc.

PHYSICAL CHARACTERISTICS

Radio Set AN/ARC-3 measures $7 \cdot 1/2 \times 25 \cdot 1/2 \times 15 \cdot 1/4$ inches (approximate), net weight 68.1 pounds, volume 2 cu ft (approximate). Packed for domestic or export shipment: total weight 96 pounds, total volume 5 cu ft. Shipped in 1 package.

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