

STATUS: Commercial

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Air Force

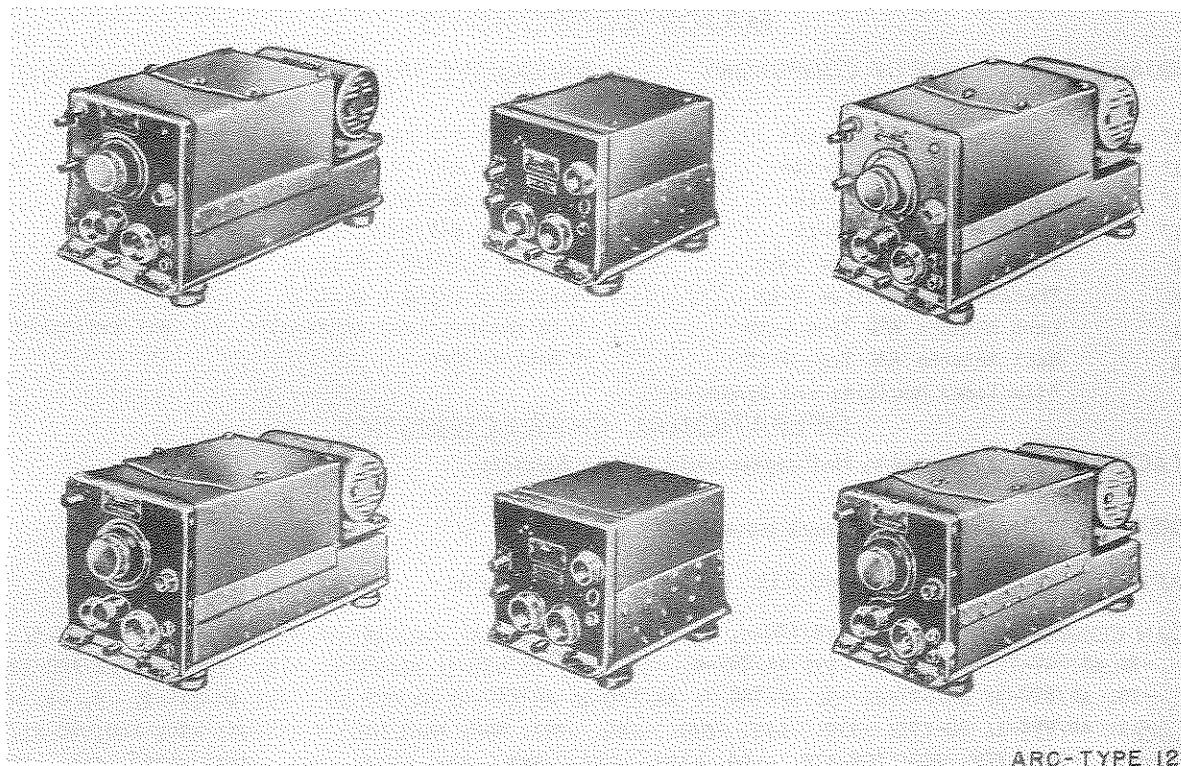
DATE OF THIS SHEET: 10 Jun 52

AN/ARC-TYPE

COMMERCIAL TYPE NUMBER:

ARC TYPE 12

RADIO SET



ARC-TYPE 12

Radio Set ARC Type 12 is a group of radio equipments used in various combinations to form a variety of communication and/or navigation systems for use in aircraft flying at speeds normally not exceeding 200 miles per hour. All transmitters are am, crystal-controlled on preset frequencies in the v-h-f band. Receivers are manually tuned, continuous coverage superheterodyne. This equipment is used for air-to-air and air-to-ground communication.

MODEL: H-13 B HELICOPTER INSTALLATION 28 v, dc.

Transmitters: 2 ARC Type T-11A; 122.1, 122.3, 122.5, 122.7 and 126.18 mc.

Receiver: ARC Type R-11A; 0.19 to 0.55 mc.

Antenna: ARC Type A-12.

MODEL: L-15 AIRCRAFT INSTALLATION (28 v, dc), same as H-13B except the following have been added:

Receiver R-15; 108 to 135 mc.

Loop Antenna ARC Type L-10, (manually rotated).

MODEL: L-17-A-B-C AIRCRAFT INSTALLATION (14 v, dc), same as H-13B and L-15 except the following have been added:

Receiver: ARC Type R-10-A (520 to 1,500 kc).

MODEL: L-19A AIRCRAFT INSTALLATION (28 v, dc).

Transmitter: 1 ARC Type T-11A, 121.5, 121.7, 121.9, 122.1, 122.5 mc.

1 ARC Type T-13, 126.18 mc.

Receiver: ARC Type R-19, 118 to 148 mc.

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INSTRUCTION LITERATURE:

Inst. Book 8 TO 16-45-121

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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1*	Receiver ARC Type R-10A	4-15/16 x 6-7/16 x 11-3/8	8.8
1*	Receiver ARC Type R-11A	4-15/16 x 6-7/16 x 11-3/8	8.8
1*	Receiver ARC Type R-15	4-15/16 x 6-7/16 x 11-3/8	8.8
1*	Receiver ARC Type R-19	4-15/16 x 6-7/16 x 11-3/8	8.8
2	Transmitter ARC Type T-11	4-15/16 x 5-3/4 x 6-11/16	3.4
1	Transmitter ARC Type T-13	4-15/16 x 5-3/4 x 6-11/16	3.4
1	Loop Antenna ARC Type L-10	9 (diameter) Loop Antistatic	Not available
1	Mast Antenna ARC Type A-12	3 Section Rod	" "

* (Includes Mounting and Dynamotor)

OPERATIONAL CHARACTERISTICS**TACTICAL USE:** Issued to Helicopter and Liaison Aircraft.**INSTALLATION:** Airborne, shock mounted.**APPROXIMATE RANGE (IN MILES):** (Nominal) Line of sight.

CAN COMMUNICATE WITH: AN/ARC-1, -3, -5, -8, -18, -28, -36; AN/ART-13; AN/CRC-2; AN/CRT-3, -5; AN/FRC-7; AN/FRT-10, -19; AN/GRC-9, -26, -30; AN/GRT-2; AN/MRC-6, -16, -20, -22; AN/PRC-17, -20; AN/SRC-3; AN/SRT-1, -3; AN/TRC-7; AN/TRQ-1; AN/URC-4; AN/URR-12, -21; AN/URT-2, -3, -4, -7, -10; AN/VRC-1; BC-191, -329, -365, -639, -640, -787; MAR; MAW; MBS; R-137/GR; RBK; RBQ; RC-52, -256, -257; RCK; RCO; SCR-177, -188, -193, -522, -542, -573, -574, -575, -607, -624, -641, -643, -644; T-5/FRC, -159/FRT, -171/FR; TAB; TAJ; TAQ; TBL; TBN; TBU; TBW; TCB; TCE; TCG; TCS; TCY; TCZ; TDD; TDE; TDG; TDK; TDQ; TDT; ARC Type 12; Marconi TH-41-B; Wilcox 99A.

TECHNICAL CHARACTERISTICS**FREQUENCY RANGE IN MEGACYCLES:**

Transmission: Six crystal-controlled channels from 116 - 132.

Reception: Continuously tuneable: 0.19 - 0.55, 0.52 - 1.5, and 108 - 135.

TYPE MODULATION: Am.**TYPE OF SIGNAL:** Voice, tone.**POWER OUTPUT:** Transmitters: ARC Type T-11 - 1.2 w

ARC Type T-13 - 1.2 w

Receivers: ARC Type R-15 - 400 mw into 300 ohm line

ARC Type R-10 - 800 mw into 300 ohm line

ARC Type R-11A - 800 mw into 300 ohm line.

POWER REQUIREMENTS: 100 w, (3.6 amp) 28 v, dc, smallest installation

210 w, (7.5 amp) 28 v, dc, largest installation.

PHYSICAL CHARACTERISTICS

Information on Radio Set ARC Type 12 can be determined from components for specific aircraft.