

STATUS: Substitute Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Air Force

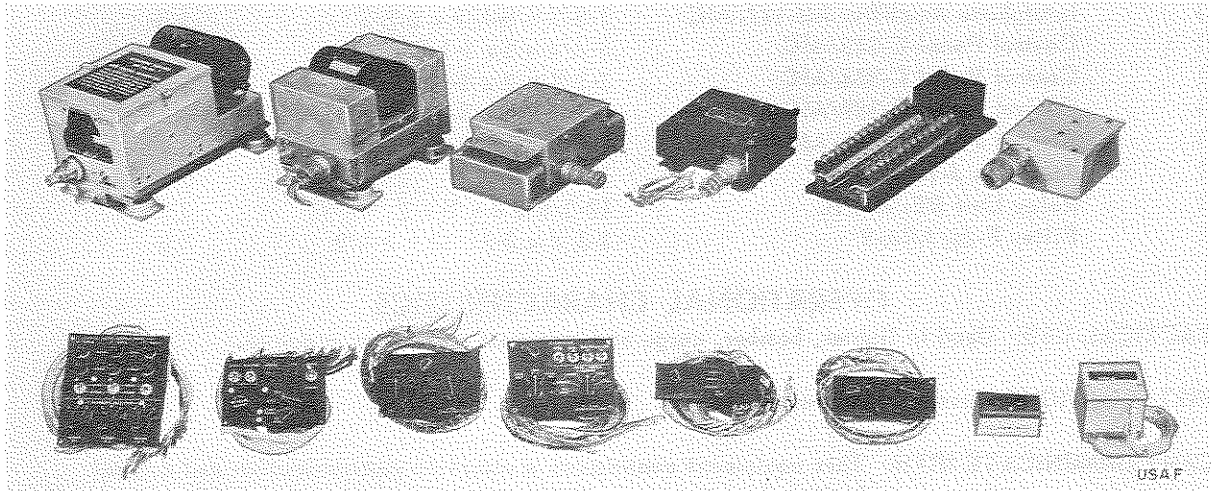
DATE OF THIS SHEET: 7 Jun 52

**AN/AIC-TYPE**

SERVICE TYPE NUMBER:

USAF

COMBAT INTERPHONE



USAF Combat Interphone components consist of an assortment of control panels, audio amplifiers, relay units, and related items used to provide interphone communication between the various crew members and/or crew members and radio equipment in multi-place aircraft. The availability of a variety of control panels and amplifiers permit the selection of appropriate components to provide an interphone system which best meets the tactical needs of each individual aircraft and crew station.

The most elaborate combination provides selection of either constant or automatic volume control; control of one to 15 stations (singly or simultaneously); compass; vhf liaison; command; interphone; private interphone; three recorders (maximum); range or voice filter; mixed signals; and call facilities.

Interphone Amplifier AM-26A/AIC is ordinarily used in high altitude aircraft having six or more interphone stations; Interphone Amplifier AM-147/AIC is installed in two- or three-place low-altitude aircraft.

Power requirements are: 24-28 v, dc, the total load will vary with each different installation.

<b>AN/AIC-TYPE</b>		INSTRUCTION LITERATURE: TO 16-55-391
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**MAJOR COMPONENTS**

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Interphone Amplifier AM-26A/AIC	10-1/2 x 57/8 x 5-1/4	8.0
1	Mixer Amplifier AM-142/AIC	5-1/4 x 6 x 1-3/4	1.9
1	Interphone Amplifier AM-147/AIC	7-5/8 x 5-1/2 x 2-7/8	3.0
1	Control Panel C-383/AIC	3-3/4 x 5 x 3-1/8	1.5
1	Control Panel C-384/AIC	3-3/8 x 5 x 3-1/8	1.25
1	Control Panel C-389/AIC	2-1/4 x 5 x 3-1/8	0.8
1	Control Panel C-385/AIC	2-1/4 x 5 x 2-1/4	0.7
1	Jack Box J-139A/AIC	3-3/8 x 2 x 2	0.3
1	Relay Unit RE-50/AIC	12-3/8 x 4 x 2-1/2	1.9
1	Filter F-21/ARA-9	3-3/4 x 2-27/32 x 2-1/2	1.5

**OPERATIONAL CHARACTERISTICS**

**TACTICAL USE:** Used in fighter, bomber, cargo and transport aircraft as required.

**INSTALLATION:** Aircraft, shock-mounted.

**CAN COMMUNICATE WITH:** This equipment constitutes a complete communication and control facility for use in aircraft.

**TECHNICAL CHARACTERISTICS**

**FACILITIES AFFORDED:** 2 to 15 interphone stations, compass, vhf liaison, command, interphone, private interphone, 3 recorders, range with or without voice filter, mixed signals and call facilities.

**TYPE CONTROLS:** Rotary selector switches, toggle switches and volume controls to select various stations and/or radio equipment with which interphone is connected.

**POWER OUTPUT:** Amplifiers: 4 w (maximum) to 250-ohm resistive load.

**POWER REQUIREMENTS:** Total power requirements must be determined from type of installation.  
Power drawn by basic components:

Instantaneous starting current 106 w, 24 to 28 v, (1.8 amp) dc.  
Interphone Amplifier AM-26A/AIC 27.7 w, 24 to 28 v, (1.8 amp) dc.  
Interphone Amplifier AM-147/AIC 19.88 w, 24 to 28 v, (0.75 amp) dc.  
Mixer Amplifier AM-142/AIC 17.66 w, 24 to 28 v, (0.13 amp) dc  
(holding current).

**PHYSICAL CHARACTERISTICS**

Two to fifteen of each of the station units are used to form the intercommunication system, depending upon the type of installation required. The approximate space requirements and weight of each station unit is indicated above under "Major Components."