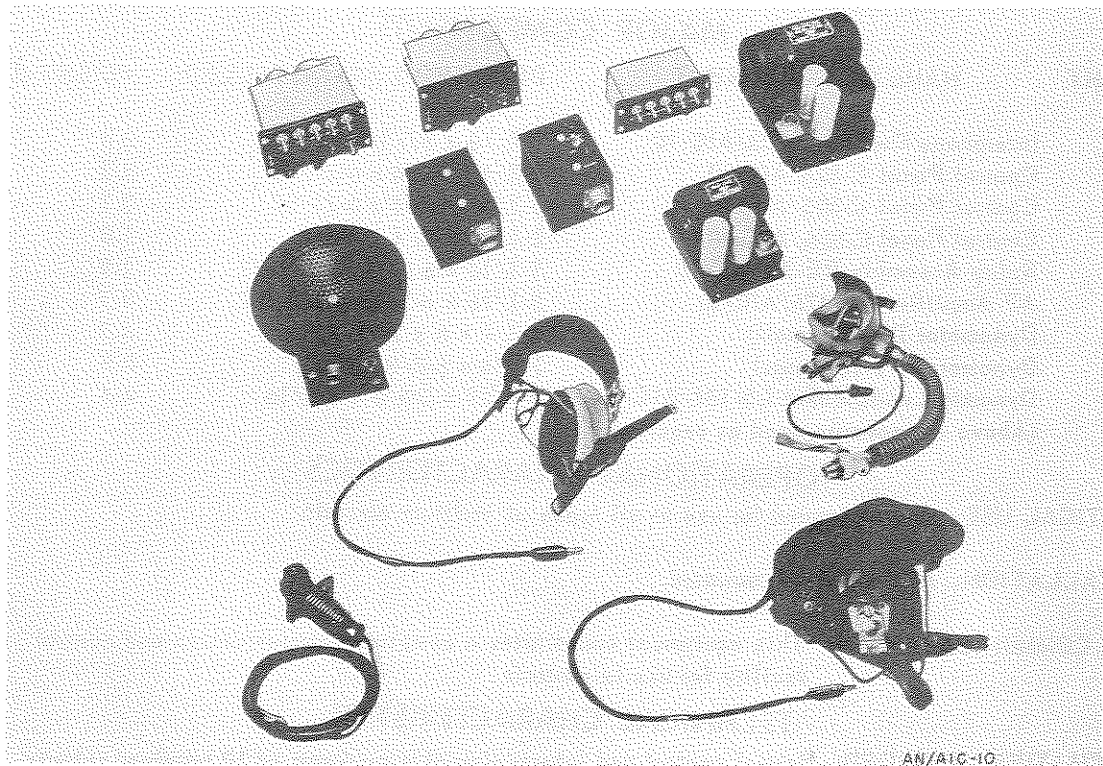


STATUS: Substitute Standard
 CLASSIFICATION OF EQUIPMENT: Restricted
 USING SERVICE: Air Force
 DATE OF THIS SHEET: 7 Jun 52

AN/AIC-10

INTERCOMMUNICATION SET



AN/AIC-10

Intercommunication Set AN/AIC-10 is an intercommunication equipment to give increased performance at high altitudes with lower noise pick-up, higher intelligibility and reduced discomfort and inconvenience to the operator.

This set consists of an indeterminate number of items which can be used to meet the tactical requirements of any type aircraft. It consists essentially of five groups of basic components; microphones, the control panels and associated equipment, power supplies, headsets and dynamic loudspeakers with component audio frequency amplifiers.

The functions that may be performed with the AN/AIC-10 will depend on the control panels used. Three types are available; C-823/AIC-10 provides for talking and call, listening with manual volume control and a two position switch for one receiver output, or monitoring as many as 10 receivers; C-825/AIC-10 provides talking, listening, and manual volume control through a six position switch as follows: private interphone, command, liaison, compass, intercommunication, call; (C-824/AIC-10 is the same as C-825/AIC-10 except 5 toggle switches have been added to monitor the output of any one or all of 5 receivers).

All panels have a "Normal/Auxiliary Listen" two-position toggle switch that permits reception from a single receiver; or permits monitoring up to 10 receivers simultaneously when auxiliary Control Panel C-826/AIC-10 is used.

In quiet aircraft, and for stand-by operation, loudspeakers are available. The microphones are noise-cancelling, moving coil type; headphones are also moving coil type designed for minimum discomfort to the wearer.

AN/AIC-10	INSTRUCTION LITERATURE: Not Available
	CLASSIFICATION OF EQUIPMENT: Restricted
INTERCOMMUNICATION SET	USING SERVICE: Air Force
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Interphone Control C-823/AIC-10	3-9/16 x 5-7/16 x 4-5/16	2.0
1	Control Panel C-824/AIC-10	3-3/4 x 5-3/4 x 6-21/32	3.3
1	Control Panel C-825/AIC-10	3-3/4 x 5-3/4 x 6-21/32	3.1
1	Control Panel C-826/AIC-10	2-5/8 x 5-3/4 x 4-5/8	1.0
1	Relay Assembly RE-95/AIC-10	3-1/16 x 4-7/16 x 3-19/32	1.9
1	AF Amplifier AM-476/AIC-10	3-1/16 x 4-7/16 x 3-19/32	0.7
1	Dynamotor DY-77 (small)	4-3/4 x 6 x 3-17/32	4.3
1	Dynamotor DY-76 (large)	7-3/4 x 6-7/8 x 5-1/2	8.9
1	Dynamic Loudspeaker LS-184/AIC-10	8-7/32 x 7-5/8 x 4-5/16	4.6

(Above components used as required)

OPERATIONAL CHARACTERISTICS

TACTICAL USE: May be issued for use in all types of military aircraft.

INSTALLATION: Aircraft shock mounted.

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

TECHNICAL CHARACTERISTICS

FACILITIES AFFORDED: Partial control and intermixing of a maximum of 10 receiver outputs, talking on 6 positions, loudspeaker monitoring and automatic volume compression, automatic gain control and speech clipping.

TYPE CONTROLS: 5-10 toggle switches for audio output of 5-10 receivers.
6-position rotary switch permits talking over the following circuits: private interphone, command, liaison, intercommunication, interphone, and call.
Mixing, or single-receiver, monitoring.
Loudspeaker operation when desired.

POWER OUTPUT: 200 mw (nominal) per interphone station.

POWER REQUIREMENTS: Per interphone station (nominal): 750 mw, 26.5 v, dc.
Control Panel C-824/AIC-10: 150 mw, 27.6 v, dc.
AF Amplifier AM-476/AIC-10: 150 mw, 27.6 v, dc.
Relay Assembly RE-95/AIC-10: 110 mw, 27.6 v, dc.
Dynamotor DY-77: (1.3 amp) at 27.6 v, dc.
Dynamotor DY-76: (7 amp) at 27.6 v, dc.

PHYSICAL CHARACTERISTICS

The number of principal operating units used are determined by the installation requirements of the Aircraft. Approximate space and weight requirements of each item is listed above under "Major Components."