

Intercommunication Set Control

Model C2104/AIC-18 (PN A81-3)



Model C2104/AIC-18

**THIS UNIT IS USED ON THE
FOLLOWING AIRCRAFT:**

• C-130

FACILITIES AND OPERATING CONTROLS

All operating controls are mounted on the front panel.

TALK OPERATION: A six-position rotary selector switch provides for selection, control and voice modulation of five transmitters. The extreme CW position of the selector provides Intercommunication on the INTERPHONE line.

CALL OPERATION: One Hot Mike talk switch for Hands Free Intercommunication on the Hot Mike Line.

HOT MIKE OPERATION: A momentary, push button switch provides emergency call operation on the CALL line. The CALL signal is exalted 6 dB above all other monitored signals.

MONITORING: Seven monitor switches provide for individual selection and monitoring of any combination of seven audio input lines.

LEVEL ADJUSTMENT: A master volume control permits adjustment of the headset level.

WARNING SIGNAL: The Set Control provides facilities for applying a warning signal directly to the headphone circuit.

HEADSETS: This product is compatible with common military headsets (like the H-157A/AIC, H-78C/AIC, H101A/U or David Clark H10-76) using a low level 5 Ohm dynamic microphone and a 8 - 9.5 Ohm headphone.

LOUDSPEAKERS: The Set Control can drive a number of Dynamic Loudspeakers such as the LS184A/AIC-10 in addition to the headphone normally used by the operators.

DESCRIPTION AND USE

The A81-3 Intercommunication Set Control is a panel-mounted assembly designed to provide high intelligibility intercommunication and radio monitoring facilities for airborne and ground installations. The Set Control also provides for selection, control, and modulation of radio transmitters for communications with airborne, ground, or mobile stations.

The Set Control contains individual Microphone and Headset amplifiers. The amplifiers are solid state, plug-in, completely encapsulated units.

C46-5389 Rev C

SPECIFICATIONS*

GENERAL CHARACTERISTICS

A81-3.....	MIL-I-27543
Environmental.....	MIL-E-5400 Class 2
Mean Time Between Failure.....	2000 hours
Longevity.....	3000 hours
Size.....	5 3/4" W x 3 3/4" H x 6 25/32" D
Weight.....	4.2 lbs. maximum

TEMPERATURE

Continuous operation.....	-54° C to +71° C
Storage.....	-65° C to +95° C
Input Voltage.....	27.5 VDC (17-29 V)

POWER REQUIREMENTS

Talk Condition.....	6.0 W
Listen condition.....	4.0 W
Panel lamps @ 27.5 VDC.....	2.2 W

EMI

EMI.....	MIL-I-6181
Connectors.....	Cannon KO2-21-30 PN & KO2-21-30 SN
Mating Connectors.....	KO3-21-30 SN & KO3-21-30 PN

OPERATIONAL PERFORMANCE

Gain @ 1 KHz - Listen.....	22 dB +/-5dB
Gain - Talk.....	68 dB +/-5dB
Headset Output.....	1.0 W
Volume Control Range.....	31 dB +/-3 dB
Frequency Range.....	300 to 6000 Hz
Noise.....	2 mV maximum
Call Exalt.....	6 dB

SIDETONE LEVEL

Interphone Operation.....	6 dB
Call Operation.....	12 dB

*Specifications subject to change without notice.