

Amplifier Assembly

Model AM-1963F/AIC (Andrea P/N A81-6)



Model AM-1963F/AIC

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

- F-16
- F-2

FACILITIES AND OPERATING CONTROLS

There are no operating controls on the Amplifier Assembly. A screwdriver-operated switch is provided to permit adjustment of the output indicator level to the Headphones. This switch is a service adjustment only.

TALK OPERATION: An external talk switch must be operated to activate the command channel transmitter. An external interphone talk switches operated to activate a talk relay, which places the talk audio signals on the interphone line.

MONITORING: The Amplifier Assembly is capable of monitoring six radio receivers. No action by the operator is required to monitor the audio lines connected to the amplifier assembly. The operator cannot disable the incoming audio signals.

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

LOUD SPEAKER: The Amplifier Assembly can drive a number of Dynamic Loudspeakers such as the LS184A/AIC-10 in addition to the headphones normally used by the operator.

DESCRIPTION AND USE

The A81-6 is a bulkhead-mounted assembly designed to provide high intelligibility intercommunications and radio monitoring facilities for airborne and ground installations. The Amplifier Assembly also provides for control and modulation of one transmitter for communication with airborne, ground, or mobile stations.

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

C46-5384 Rev B

GENERAL CHARACTERISTICS

PERFORMANCE

ANDREA A81-61.....	ASNAC-70-1
Environmental.....	MIL-E-5400 Class 3
Mean Time Between Failures.....	2000 hrs.
Size.....	4 23/32" W x 5 11/16" L x 2 25/32" D
Weight.....	3.5 lbs. Max.

TEMPERATURE

Continuous Operation.....	-54° C to +95° C
Intermittent Operation.....	+95° C to +150° C
Storage.....	-65° C to +150° C

POWER REQUIREMENTS

Input Voltage.....	27.5 VDC (17-29 V)
Talk Condition.....	5.7 W
Listen Condition.....	4.0 W
EMI.....	MIL-STD-461 Class 1 C
Connector.....	Winchester Type MRE 34P-N
Mating Connector.....	Winchester Type MRE 34S-N

OPERATIONAL PERFORMANCE

Gain @ 1 KHz - Talk.....	68 +/-3 dB
Listen Output @1 KHz.....	Service switch selection of .25 W, 0.5 W or 1 W for 2 V RMS input.
Frequency.....	300 to 6000 Hz
Interphone Live Level.....	2 V RMS for -40 dBm input

NOISE WITH 3 V RIPPLE ON 27.5 VDC LINE

Talk Operation.....	3 mV @ 400 Hz 4 mV @ 1200 Hz 5 mV @ 6000 Hz
Listen Operation.....	3 mV @ 400 Hz 5 mV @ 1200 Hz 10 mV @ 6000 Hz
Crosstalk.....	-60 dB Maximum