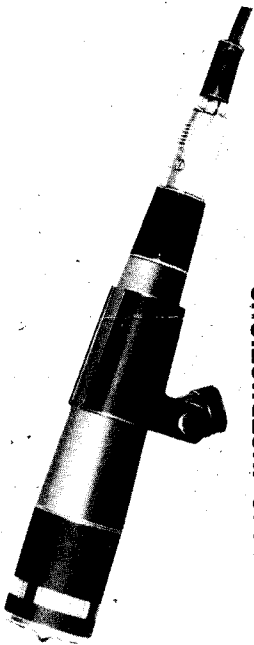


803 "Cardioid" Dynamic Microphone



OPERATING INSTRUCTIONS

SPECIFICATIONS

Type: Cardioid Dynamic

Frequency Response: 45 to 15,000 cycles, ± 5 db 60 to 8,500 cycles with output level rising smoothly approximately 3 db between 45 and 15,000 cycles. Average front-to-back discrimination 20 db from 45 to 15,000 cycles.

Output Impedance: 30/50, 150/250 and 200,000 ohms (selection by connections in microphone cable plug)

Output Level: -54 dbm/10 dynes/cm²

Pickup Pattern: Cardioid

Hum: -120 db (Ref.: 10⁻³ Gauss)

Dimensions: 1 1/2" diameter at top, 7 1/4" long not including plug

Weight: 11 ozs. (not including cable and plug)

Finish: Two-tone baked enamel, dark brown and desert tan

Mounting: Separate "Slip-On" (brown) adapter. Adapter has standard 3/8" - 27 thread.

DESCRIPTION

The AMPEX 803 Microphone is a cardioid, general purpose microphone of superb recording and broadcast quality—having a frequency range from 45 to 15,000 cycles. The sound pickup being a perfect cardioid makes it expressly useful in locations where random noise, severe vibrations or echo exists.

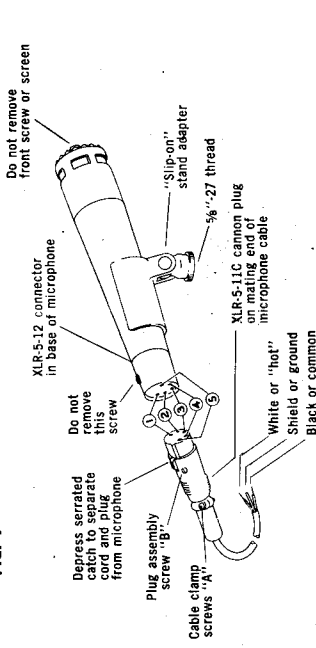
The 803 may be used with the "slip-on" adapter for attachment to any microphone stand having standard 3/8" x 27

IMPEDANCE SELECTION

Before placing the microphone in service determine the impedance requirements of the input system into which the microphone will connect, then following the procedure outlined in the following illustration, Fig. 1, select the proper connections.

Note: — The microphone is shipped with leads connected for 150/250 ohms.

FIG. 1



TERMINAL LEGEND (shield)
 Pin No. 1—Ground (black)
 Pin No. 2—Common (black)
 Pin No. 3—30/50 ohms (white)
 Pin No. 4—150/250 ohms (white)
 Pin No. 5—20,000 ohms (white)
 Microphone is shipped with all connections made for 150/250 ohms impedance. To select other suitable impedances perform the following in the XLR-5-11C:
 (1) Loosen two cable clamp screws
 (2) Remove plug assembly screw along cable.
 (3) For 150/250 ohms, white lead is connected to Pin No. 4.
 (a) To select 30/50 ohms, remove white lead from Pin No. 4 and connect to Pin No. 3.
 (b) To select 20,000 ohms impedance connect white lead to Pin No. 5.

Note: No connection changes should be attempted in the XLR-5-12 connector.

Note: For unbalanced systems, connect black lead (common) and shield (ground) together at amplifier input end of microphone cable. No. 2 of microphone cable, No. 2 of microphone can, no plug XLR-5-11C.

MICROPHONE POSITIONING

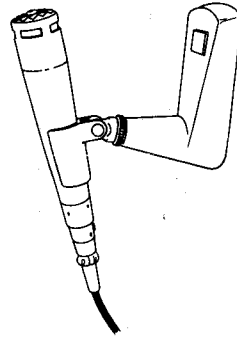


FIG. 2

The AMPEX Model 803 having a cardioid polar pickup pattern must be positioned on the microphone stand as shown in Fig. 2. A cardioid microphone is sensitive to sound only on its frontal area and must be used in the position shown. This feature eliminates many unwanted audience sounds as well as minimizing the problems of "feedback" in public address, paging and sound systems.

Model 803 Microphone

Altec
683A