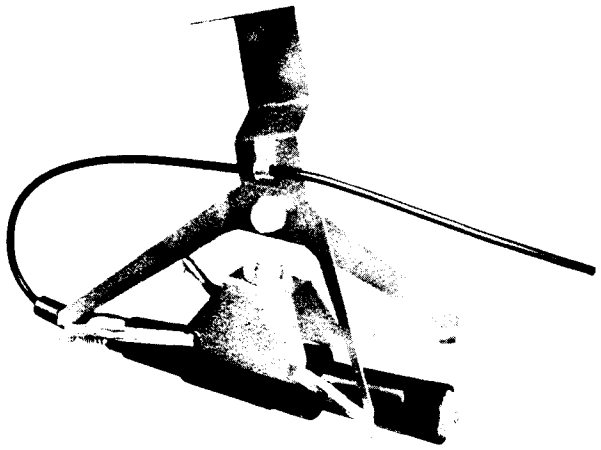

ALTEC LANSING CORPORATION

688A "Omnidirectional" Professional Dynamic Microphone

SPECIFICATIONS

Type: Moving Coil Dynamic

Pickup Pattern: Omnidirectional

Frequency Response: 35 to 20,000 cycles

Output Impedance: 30/50, 150/250 and 20,000 ohms (selection by connections in microphone cable plug)

Output Level: −55 dbm/10 dynes/cm^2

Hum: −120 db (Ref.: 10^{-3} Gauss)

Dimensions: 1⅛" diameter at top (1½" largest diameter) 7½" long not including plug

Weight: 8 ozs. (not including cable and plug)

Finish: Two-tone baked enamel, black and dark green

Mounting: Separate "Slip-On" adapter No. 13798 furnished. Adapter has standard ⅝"-27 thread.

(Calibration Chart included with each 688A)

DESCRIPTION

For the finest reproduction of complex musical waveforms, the Altec 688A has been specifically designed for use by professional recording and broadcasting studios where no variance between actual and transmitted sound may be tolerated. The extreme uniformity of response, from 35 to over 20,000 cycles, together with the omnidirectional polar pattern of the 688A combine to produce a unit of unusually high quality, suitable for all professional and industrial applications.

The exclusive Altec 'Golden Diaphragm' of Mylar polyester with tangential compliance assures long life, uninterrupted service, and great resistance to shock or other damage.

Although most professional applications require the use of a boom mount, such as the Altec 181A (illustrated), the 688A microphone may also be used on a standard microphone mount with the 'slip on' adapter, supplied. The locking feature of the microphone permits immediate installation or removal—yet prevents the unit from slippage or other conditions which might cause inadvertent damage. The 688A is supplied with 15 feet of heavy-duty, 2-conductor shielded cable.

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.

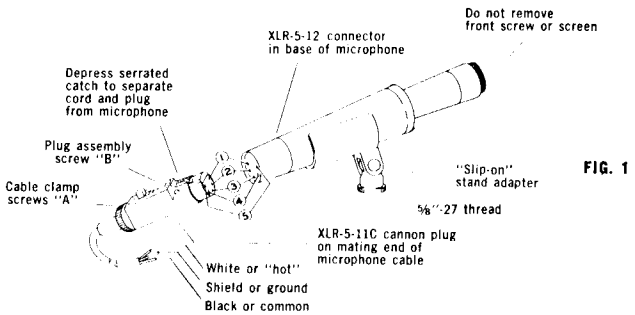

FIG. 1

TERMINAL LEGEND
Pin No. 1—Ground (shield)
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 operation. To select other available impedances perform the following in the XLR-5-11C

(1) Loosen two cable clamp screws "A".

(2) Remove plug assembly screw "B" and slide plug housing 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, or strap Pin No. 1 to Pin No. 2 of Microphone Cannon Plug XLR-5-11C

CALIBRATION CHART

A calibration curve on this microphone will be found on the inside cover of the storage case. It provides an accurate performance record of the microphone. This calibration is made in the ALTEC Anechoic Chamber equipped with an accurately controlled transducer as a sound source. The performance is recorded on ALTEC measuring equipment by an automatic servo-driven charting pen. The ALTEC calibration standards are cross-checked at regular intervals by independent acoustical laboratories.

MICROPHONE POSITIONING

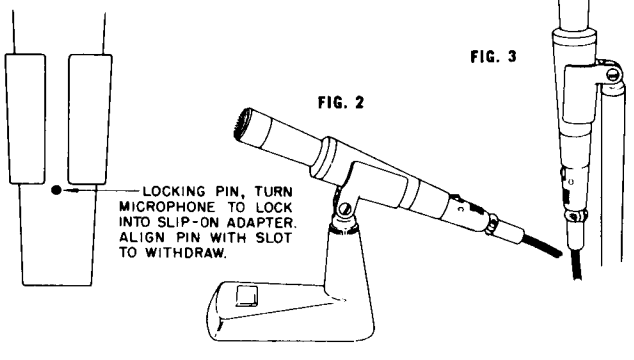

FIG. 2

FIG. 3

The ALTEC Model 688A having an omnidirectional polar pickup pattern should be positioned on the microphone stand as shown in Fig. 2. If it is desired to group the performers around the periphery of the microphone it may be positioned as illustrated in Fig. 3.

Should your microphone, through accidental damage, become inoperative it may be replaced by your ALTEC Distributor under an exchange plan or may be returned, transportation charges prepaid, for exchange: Service Manager: ALTEC LANSING CORPORATION, 1515 South Manchester Avenue, Anaheim, California

ALTEC LANSING CORPORATION

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