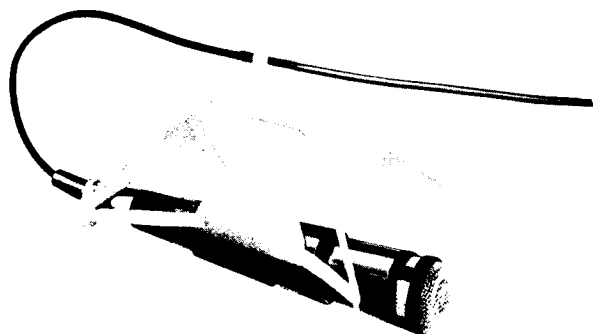




ALTEC
LANSING CORPORATION

689A

**"Cardioid"
Professional
Dynamic Microphone**



SPECIFICATIONS

- Type:** Cardioid Dynamic
Frequency Response: 40 to 16,000 cycles
Output Impedance: 30/50, 150/250 and 20,000 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: 1½" diameter at top, 7¼" long not including plug
Weight: 11 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 689A)

DESCRIPTION

A cardioid dynamic microphone of extremely uniform response, wide range, and high efficiency—these features are representative of the Altec 689A—designed for professional usage in the recording and broadcasting of complex musical waveforms. Owing to the high front-to-back discrimination, characteristic of a properly-designed cardioid transducer, the Altec 689A finds use wherever wide range with minimal output deviation is required. The exclusive Altec "Golden Diaphragm" with tangential compliance, provides maximum sensitivity, ruggedness, and uniformity of response.

The Altec 689A is furnished with a special slip-on adapter; when combined with the locking facility on the microphone case, prevention of accidental slippage is thus attained. The 689A is shipped complete with fifteen feet of heavy-duty two-conductor shielded cable; finish is an attractive "non-glare" green and black enamel, suitable for all TV applications.

IMPEDANCE SELECTION

Before placing the microphone in service determine the impedance requirements of the input system into which

OPERATING INSTRUCTIONS

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.

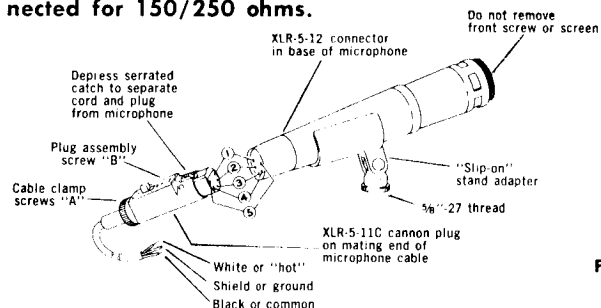


FIG. 1

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.

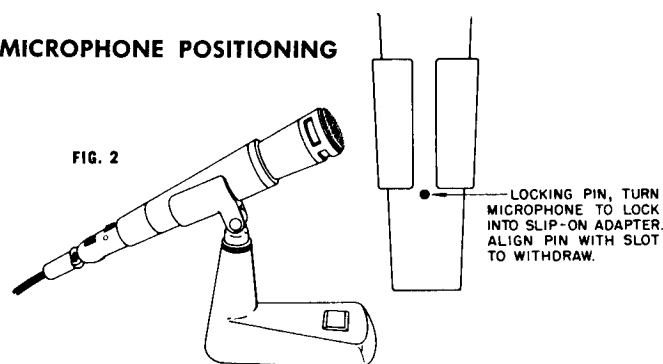
Note: No connection changes should be attempted in the XLR-5-12 connector.

Note: For unbalanced systems, connect black lead (common) and shield (ground) together at amplifier 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



Model 689A has a cardioid polar pickup pattern and therefore must be positioned on the microphone stand or boom as illustrated 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.



A Subsidiary of Ling-Temco Vought, Inc.

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

1515 S. Manchester Ave., Anaheim, Calif.

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