

*INCLUDES SINTERED BRONZE FILTER

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 685A)

DESCRIPTION

PROFESSIONAL QUALITY — Telecasting — Broadcasting — Recording — Sound Reinforcement — for the discriminant purchaser is embodied in the 685A ALTEC Cardioid Microphone. Frequency response, of this model, extends beyond the range of most cardioid microphones, being uniform from 40 to 16,000 cycles. Featuring excellent front-to-back discrimination, Model 685A exceeds the most exacting design factors. It embodied the "new" ALTEC "Golden" diaphragm and the diaphragm and acoustical element are protected against contamination of dust, dirt, moisture and foreign materials by the famous ALTEC Sintered Bronze Filter. Model 685A is finished in "non-glare" dark green and black enamel to eliminate undesirable reflections from studio and stage lights. Quick and easy removal of the microphone from the stand is made possible by the No. 13798 "slip-on" stand adapter. The microphone is complete with fifteen feet, two conductor shielded microphone cable.

IMPEDANCE SELECTION

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



ALTEC
LANSING CORPORATION

685A

"Cardioid"
Professional
Dynamic Microphone

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.

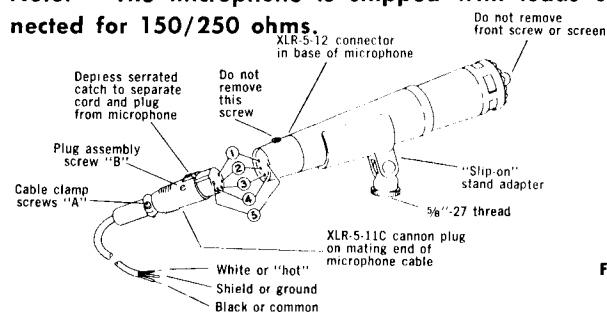


FIG. 1

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 input end of microphone cable, or strap pin No. 1 to pin No. 2 of microphone cannot 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

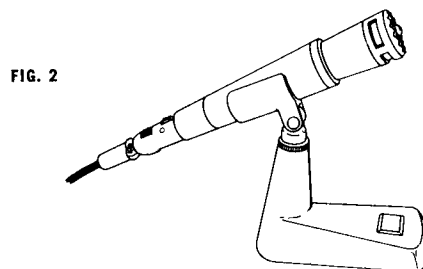


FIG. 2

Model 685A has a cardioid polar pickup pattern and therefore must be positioned on the microphone stand 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.

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



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