686A "Lavalier" Microphone

686A

Features

- Lavalier Type
- Light Weight — Small Size
- Extended Frequency Response
- Special Altec Mylar® Diaphragm
- Unaffected by Blast and Shock
- Filter of Sintered Bronze
- Dust and Moisture Proof
- Rugged Construction Throughout
- Neck Cord and Lapel Clip Furnished
- "Non-Glare" Enamel Finish
- Moderately Priced

PUBLIC SPEAKERS • ANNOUNCERS • BROADCASTING
TELECASTING • HOME DEMONSTRATIONS

The new Altec model 686A Lavalier-type microphone is a miniature, dynamic unit with full frequency range, designed for those difficult applications necessitating microphone concealment, individual mobility, or freedom of hands and body. It has an integral snap-on neck cord and a steel spring clip for attachment to the speaker's clothing or may be hand-held, if desired.

Moderately priced, this microphone incorporates significant developments in styling and engineering. Attractive, small in size — the ultimate in reliability and performance. Equipped with Altec's *Golden Diaphragm* of rugged Mylar® polyester, the 686A exhibits exceptionally smooth response over a wide range of 70 to 20,000 cycles. This diaphragm is highly resistant to the effects of blast or shock and not affected to chemically corrosive atmospheres.

Another Altec Exclusive, a sintered bronze filter, provides even more extensive protection of the acoustical element by prohibiting the entrance of any foreign particles or moisture into the microphone proper.

The model 686A Lavalier-type microphone has been designed for consistent and dependable performance on a professional level. It is ideally suited for use in broadcasting, and telecasting, participation shows, public speaking, man-in-the-street interviews or home demonstrations. Finish is a dark green, non-glaring enamel allowing unrestricted use in the television studio.

ALTEC LANSING

A Division of LTV Ling Altec, Inc.

1515 S. Manchester Ave., Anaheim, Calif.
New York

ALTEC 686A

OPERATING INSTRUCTIONS

SPECIFICATIONS

Type:	Moving Coil Dynamic "Lavalier" Microphone
Frequency Response:	70 to 20,000 cycles used as a "Lavalier"
Output Impedance:	30/50 and 150/250 ohms. (selection by connections in plug at end of microphone cable
Output Level:	−55 dbm/10 dynes/cm²
Pickup Pattern:	Omnidirectional Pickup Pattern
Hum:	−120 db (Ref.: 10^{3} Gauss)
Dimensions:	1 1/16" diameter at top tapered to 3/8" at cable entrance, 3 1/2" long
Weight:	3 ozs. (not including cable and plug)
Finish:	Baked enamel, non-glare dark green
Mounting:	"Snap-on" Lavalier neck cord No. 13356 including spring type tie or lapel clip No. 13322. Microphone complete with 20 foot, 3 conductor shielded cable (100% shield) and plug

MICROPHONE POSITIONING IMPORTANT:

Model 686A is a "lavalier" type unit and is designed for use with the "neck cord" No. 13356 and "tie clip" No. 13322 as furnished.

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:

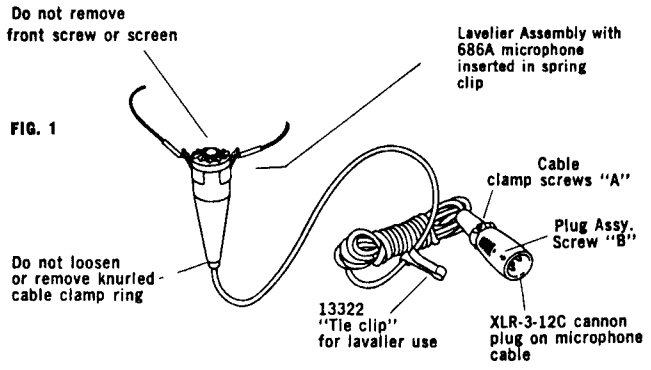
Service Manager
ALTEC LANSING
1515 South Manchester Avenue
Anaheim, California

IMPEDANCE SELECTIONS

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



Pin No. 1 — Ground (shield)
Pin No. 2 — Common (black)
Pin No. 3 — 30/50 ohms (white)
150/250 ohms (red)

Microphone is shipped with all connections made for 150/250 ohms operation. To select other available impedance perform the following in the XLR-3-12C plug.

(1) Loosen two cable clamp screws "A".
(2) Remove Plug Assembly Screw "B" and side plug housing along cable.
(3) For 150/250 ohms red lead is connected to Pin No. 3 and protective sleeving is on white lead.
(a) To select 30/50 ohms, remove red lead from Pin No. 3 and connect white lead to Pin No. 3. Place protective sleeving on red lead to guard against shorts and grounds.

Note: No connection changes should be attempted inside the microphone.

Note: For unbalanced systems strap Pin No. 1 to Pin No. 2 at amplifier end of microphone cable.

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The microphone shall be of the dynamic moving coil type having the following specifications. The microphone shall have a diaphragm of Mylar® with tangential compliance to provide full protection against extreme shock and blasts. The diaphragm shall withstand exposure to temperature variations from — 20 degrees F to 160 degrees F and shall not be susceptible to the effects of corrosive fumes. The microphone sound entrance shall be protected by a sintered bronze filter to prevent water, moisture, dust or ferrous particles from contaminating the acoustical element. The frequency response shall be uniform from 70 to 20,000 cps when used as a "Lavalier." The case shall be conical in shape and shall not measure more than 1 1/16" in diameter at the top, tapered to 3/8" at the cable entrance and shall be no longer than 3 1/2". The microphone shall be furnished complete with a snap-on lavalier neck cord and spring-type tie or lapel clip, and shall be complete with a 20 foot, 3 conductor rubber-covered shielded cable (100% shield) and plug. Microphones utilizing fabric-covered cable shall be deemed unacceptable. The output level shall be at least −55 dbm/10 dynes/cm² and the output impedance shall be selectable at 30/50 and 150/250 ohms. Provisions shall be available in the microphone cable plug for selecting the required impedance.

Any microphone not meeting all of these requirements shall be deemed unacceptable under these specifications.

This microphone shall be Altec Lansing Model 686A.

NOTICE

We recommend that you obtain your Altec products from factory trained authorized Altec Sound Contractors and Distributors. This will assure you of proper installation, a continuing source of knowledgeable advice, service, and quick warranty protection.

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