



## DYNAMIC LAVALIER MICROPHONE

### GENERAL

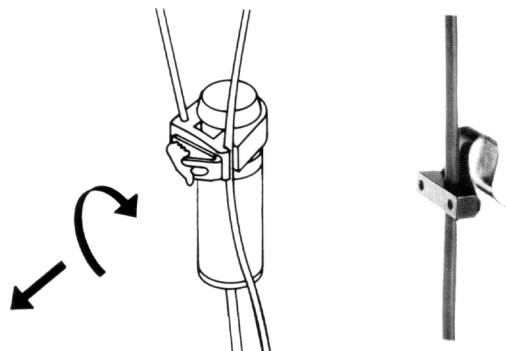
The Model 570 Dynamic Lavalier Microphone is a studio-quality unit designed specifically in size and performance for use in TV and similar critical applications where a small wearable microphone is required.

The 570 is ideal for moderators, panelists, announcers, singers, instrumentalists, public speakers, lecturers, instructors, and all applications requiring an inconspicuous, wearable unit. The microphone is supplied with a lavalier assembly to permit the microphone to be worn around the neck and a belt clip assembly (see Figure 1) for the microphone cable for applications where freedom of both hands is necessary.

The exclusive Shure "Flex-Grip" lavalier assembly provided with the 570 is designed to keep the microphone firmly in place during use. Quick and easy engagement, adjustment, and removal of the microphone, clip, and cord is also afforded.

### Features:

- Frequency response optimized for lavalier use. Acoustically matches most desk- or stand-mounted microphones.
- Small size, light weight, distinctive appearance
- Low handling and clothing noise
- Rapid attachment and secure adjustment of lavalier assembly
- Ruggedness and dependability under all operating conditions
- Low impedance allows unlimited cable lengths



LAVALIER ASSEMBLY AND BELT CLIP  
FIGURE 1

## SPECIFICATIONS

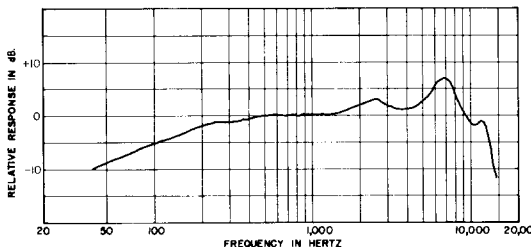
### Type

Dynamic

### Frequency Response

50 to 12,000 Hz. Rising characteristic to 6,000 Hz, specially tailored for lavalier use (see Figure 2)

### MODEL 570 DYNAMIC LAVALIER MICROPHONE



TYPICAL FREQUENCY RESPONSE  
FIGURE 2

### Polar Pattern

Omnidirectional

### Impedance

Microphone rating impedance is 150 ohms (180 ohms actual) for connection to microphone inputs rated at 19 to 300 ohms.

### Output Level (at 1,000 Hz)

Open Circuit Voltage\* ..... -81.5 dB (.08 mV)

Power Level\*\* ..... -60.0 dB

\*0 dB = 1 volt per microbar

\*\*0 dB = 1 milliwatt per 10 microbars

### Cable

9.1m (30 ft) two-conductor shielded, nondetachable, small diameter

### Lavalier Assembly

Positive lock, holds microphone securely, allows easy, noiseless adjustment and instant removal

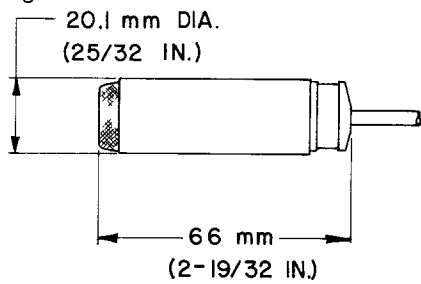
### Case

Dark gray nonreflecting enameled steel with stainless steel grille

SHURE  
MODEL 570  
DYNAMIC LAVALIER MICROPHONE

## Dimensions

See Figure 3



OVERALL DIMENSIONS  
FIGURE 3

## Net Weight (less cable)

58 grams (2 oz)

## Packaged Weight

482 grams (1 lb, 1 oz)

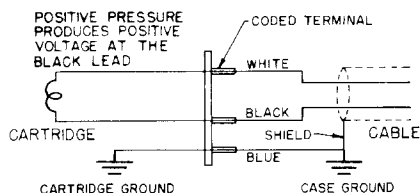
## OPERATION

Model 570 is a low-impedance microphone for connection to microphone inputs rated at 19 to 300 ohms. The low-impedance connection is recommended where long cable lengths are required or under conditions of severe hum disturbance. The permissible cable length is practically unlimited since neither response nor level is appreciably affected by long cables. Shure Model A95 Series Line Matching Transformers are available for use when a low-impedance microphone line is desirable but the associated amplifier has a high-impedance input. These transformers provide a proper impedance match between a 19 to 300 ohm microphone line and a high-impedance input and are available with various input and output connectors.

## PHASING

To test two microphones for proper phasing, connect them to an amplifier and talk or sing into them while holding them three or four inches apart. The sound from the speakers should be the same when talking into either microphone or directly between them if they are in phase with each other. If the sound drops drastically, or if a dead spot is found when talking between the two microphones, the microphones are out of phase. All microphones should be tested in this manner to insure that they are in phase with each other.

To change the phase of a low-impedance microphone at the equipment end of the cable, interchange the BLACK and WHITE cable leads where they are connected to the sound system. To change the phase in the microphone, the microphone cartridge leads must be interchanged (see Figure 4). This should be performed by your dealer, the Shure Factory Service Department, or other qualified service personnel.



INTERNAL CONNECTIONS  
FIGURE 4

**Important:** Shure Microphone Cables have been selected after exhaustive tests to insure superior microphone performance in microphones because of low capacitance, effective shielding properties, and unusually long life under severe use.

Cables with plastic insulation should not be subjected to excessive soldering iron heat. Carefully clean and tin the conductors and the connections to which the conductors are to be soldered. The soldering operation can then be done with a minimum of heat, thereby avoiding any possibility of damage to the cable.

## FURNISHED ACCESSORIES

Lavalier Assembly ..... A57L  
Belt Clip ..... 94A240

## OPTIONAL ACCESSORIES

Swivel Adapter ..... A57D  
Line Matching Transformer ..... A95 Series

## REPLACEMENT PARTS

Cartridge ..... R70  
Cable Assembly ..... C76  
Screen and Grille Assembly ..... RK91G

## ARCHITECTS' SPECIFICATIONS

The microphone shall be a moving-coil (dynamic) type with a frequency response of 50 to 12,000 Hz. The unit shall have an omnidirectional polar characteristic. The microphone shall have a rated impedance of 150 ohms for connection to microphone inputs rated at 19 to 300 ohms. The microphone output shall be  $-60.0$  dB where  $0$  dB = 1 milliwatt per 10 microbars.

The microphone shall be provided with a lavalier cord and clip assembly for use as a wearable microphone. The microphone shall be equipped with a non-detachable 9.1m (30 ft) two-conductor shielded cable. The overall dimensions of the microphone shall be 66 mm (2-19/32 in.) in length and 20 mm (25/32 in.) in diameter.

The microphone shall be the Shure Model 570 or equivalent.

## GUARANTEE

This Shure product is guaranteed in normal use to be free from electrical and mechanical defects for a period of one year from date of purchase. Please retain proof of purchase date. This guarantee includes all parts and labor. This guarantee is in lieu of any and all other guarantees or warranties, express or implied, and there shall be no recovery for any consequential or incidental damages.

## SHIPPING INSTRUCTIONS

Carefully repack the unit, have it insured, and return it prepaid to:

Shure Brothers Incorporated  
Attention: Service Department  
222 Hartrey Avenue  
Evanston, Illinois 60204

If outside the United States, return the unit to your dealer or Authorized Shure Service Center for repair. The unit will be returned to you prepaid.