

**SHURE**

222 HARTREY AVE., EVANSTON, ILL. 60204 U.S.A.

MICROPHONES AND ELECTRONIC COMPONENTS

® AREA CODE 312/328-9000 • CABLE: SHUREMICRO

**DATA  
SHEET****MODEL 533SAV  
SPHER-O-DYNE**

## OMNIDIRECTIONAL DYNAMIC MICROPHONE WITH BUILT-IN VOLUME CONTROL

### GENERAL

The Model 533SAV Microphone is a dynamic omnidirectional unit with a spherical pop-filter. The microphone provides wide range reproduction of music and voice suitable for general purpose use in public-address, theater-stage sound systems, and tape recording applications. Vocal and instrumental groups will find this microphone highly desirable because its "pop-proof" design makes it ideal for closeup operation and its Volume Control feature makes it possible to adjust the amplifier output from the microphone position. The 533SAV is also recommended for interview type use where "hand-ability of the microphone is important.

### Microphone Features:

- Uniform frequency response from 40 to 11,000 Hz
- Built-in wind, breath, and pop filter
- Small size and light weight
- Built-in Volume Control, can also be used as an On-Off switch
- Versatility—for use in the hand or on a floor or desk stand—indoors or outdoors
- Dependability under all operating conditions

The Model 533SAV is supplied with an adjustable slip-in swivel adapter which permits the microphone to be tilted through 90° from vertical to horizontal. The adapter also allows for "quick-disengage" to use the microphone as a hand-held unit.

The Model 533SAV is high impedance for connection to a high-impedance microphone input. Shure Model A95 Series Line Matching Transformers are available for use in cases where cable lengths over 7.6 meters (25 feet) are required or where the microphone is to be connected to a low-impedance input. These transformers provide a proper impedance match between a high-impedance microphone line and a low-impedance input and are supplied with various input and output connectors.

The built-in Volume Control on the microphone permits the user to change the loudness of the PA system at the microphone location.

With the Control on the microphone partially turned down (turn the knob counterclockwise so that the dot on the knob is at the 9 o'clock position), the basic overall loudness of the PA system can be adjusted by the main volume control at the amplifier location—then the user can adjust the volume up or down at the microphone position. Maximum volume occurs when the dot on the knob is adjacent to the dot on the microphone (12 o'clock position). In many instances, minimum setting of the Volume Control will reduce volume sufficiently so that the Volume Control can be used as an On-Off switch.



Volume Control on microphone controls output from the amplifier

### ARCHITECTS' SPECIFICATIONS

The microphone shall be the Shure Model 533SAV or equivalent. The microphone shall be a moving coil (dynamic) type with a frequency response of 40 to 11,000 Hz. The unit shall have an omnidirectional polar characteristic. The microphone shall be high impedance for connection to high-impedance microphone inputs.

The microphone output shall be -59 dB where 0 dB = 1 volt per microbar.

The microphone shall be equipped with a built-in Volume Control. The microphone shall be provided with a swivel adapter, adjustable through 90° from vertical to horizontal, and suitable for mounting on a stand having a 5/8"-27 thread. The microphone shall also be provided with a detachable 4.6m (15 ft) one-conductor shielded cable with an Amphenol MC1F type connector at the microphone end. The overall dimensions of the microphone shall be 168 mm (6-19/32 in.) in length and 52.4 mm (2-1/16 in.) in diameter.

### IMPORTANT

Shure Microphone Cables are selected after exhaustive tests to insure superior performance in microphones because of low capacitance, superior 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.

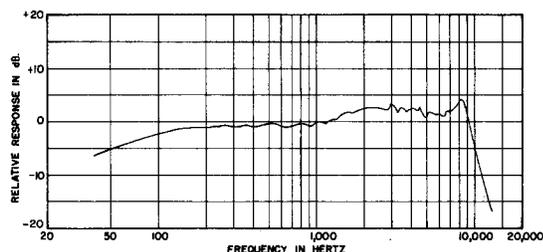
## SPECIFICATIONS

### Type

Dynamic

### Frequency Response

40 to 11,000 Hz (see Figure 1)



TYPICAL FREQUENCY RESPONSE

FIGURE 1

### Polar Pattern

Omnidirectional

### Impedance

Microphone impedance is "High" for connection to high-impedance microphone inputs.

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

Open Circuit Voltage ..... -59 dB (1.12 mV)  
0 dB = 1 volt per microbar

### Volume Control

Built-in Volume Control to control amplifier output at microphone position

### Cartridge Shock Mount

Internal rubber vibration-isolator

### Cable

4.6m (15 ft) one-conductor shielded, detachable, with Amphenol MC1F type connector at microphone end

### Swivel Adapter

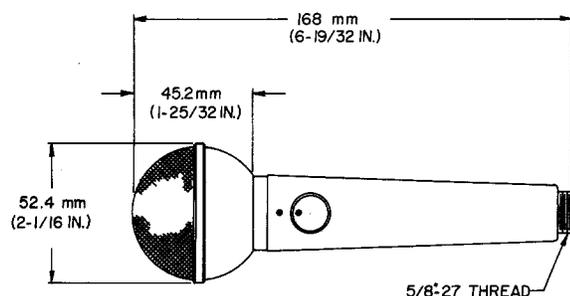
Positive action, adjustable through 90° from vertical to horizontal, permits easy removal for hand-held use, suitable for mounting on stand with 5/8"-27 thread

### Case

Chrome-plated die casting with stainless steel mesh grille

### Dimensions

See Figure 2



OVERALL DIMENSIONS

FIGURE 2

### Net Weight (less cable)

312 grams (11 oz)

### Packaged Weight

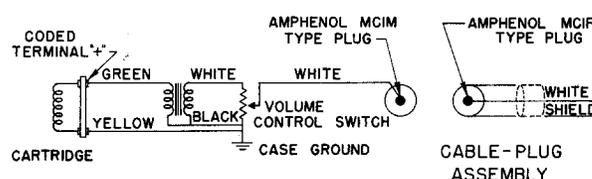
768 grams (1 lb 11 oz)

## PHASING

To test two microphones and/or their cables 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, they are out of phase. All cables and microphones should be tested in this manner to insure that they are in phase with each other.

To change the phase of a microphone, the microphone cartridge leads must be interchanged (see Figure 3). This should be performed by your dealer, the Shure Factory Service Department, or other qualified service personnel.

POSITIVE PRESSURE PRODUCES POSITIVE VOLTAGE ON WHITE CONDUCTOR



INTERNAL CONNECTIONS

FIGURE 3

## FURNISHED ACCESSORY

Swivel Adapter ..... A25B

## OPTIONAL ACCESSORIES

Line Matching Transformer ..... A95 Series  
Desk Stand ..... S33B, S37A, S38B, S39A or S40A  
Quick Disconnect Adapter ..... A45  
Windscreen ..... A61WS

## REPLACEMENT PARTS

Cable ..... C58  
Cartridge ..... R33  
Case Assembly ..... RK87C  
Screen and Grille Assembly ..... RS33  
Volume Control ..... RK93S  
Cable Connector ..... RK114P

## GUARANTEE

This product is guaranteed in normal use to be free from electrical and mechanical defects for a period of one year from the date of purchase. Please retain proof of purchase date. This guarantee includes all parts and labor.

## SHIPPING INSTRUCTIONS

Carefully repack the unit and return it prepaid to the factory. 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.