

GENERAL

The Model 588SD Unisphere Microphone is a ball-type dual-impedance, cardioid (unidirectional) dynamic unit that provides excellent reproduction of voice and music. Its spherical grille is a very effective wind and pop filter especially good when used for closeup vocal miking. This microphone is highly suited for speech or music pickup in schools, churches, and meeting rooms, and for sound reinforcement, broadcast, or recording of small musical groups. Its unidirectional polar pattern greatly reduces feedback problems, permitting operation closer than usual to loudspeakers without the annoying squeal or howl caused by feedback.

The microphone is equipped with a combination On/Off and Impedance-Selection switch with a lockplate preventing inadvertent switching to the undesired impedance. A slip-in swivel adapter is supplied for the convenience of either handheld or stand-mounted use. The microphone is supplied without a cable, packaged as Model 588SD-LC.

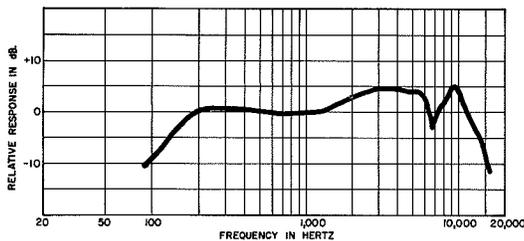
Microphone Features:

- Wide frequency response designed for faithful, intelligible, and natural pickup of voice or music
- Symmetrical cardioid pickup pattern minimizes feedback
- Spherical grille provides effective filtering out of breath popping, when used for closeup vocals, and of wind noise, when used outdoors
- Rolled-off low-frequency response reduces proximity effect (response rise from microphones used closeup)
- Shock-mounted cartridge for quiet operation, low stand or handling noise
- Combination On/Off and Impedance-Selection switch, with provision for locking out undesired impedance and locking switch On
- Slip-in swivel adapter for easy positioning and for simple handheld or stand-mounted use
- Three-pin professional audio connector, the industry standard, for maximum interchangeability of cables
- Field serviceable, and backed by the Shure guarantee

SPECIFICATIONS

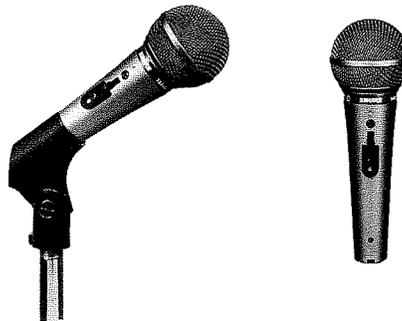
Type
Dynamic

Frequency Response
80 to 13,000 Hz (see Figure 1)



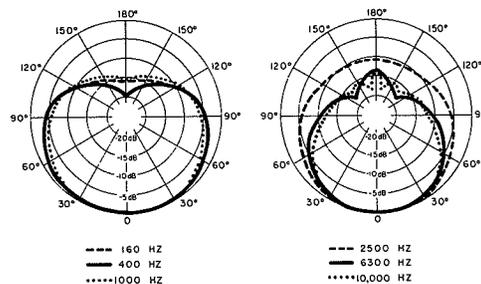
TYPICAL FREQUENCY RESPONSE
FIGURE 1

MODEL 588SD UNIDIRECTIONAL DYNAMIC MICROPHONE



Polar Pattern

Cardioid (unidirectional)—uniform with frequency, symmetrical about axis (see Figure 2)



TYPICAL POLAR PATTERNS
FIGURE 2

Impedance

LO Z: Microphone rating impedance is 150 ohms (180 ohms actual) for connection to microphone inputs rated at 75 to 300 ohms

HI Z: Microphone impedance is "High" for connection to high-impedance microphone inputs

Output Level (at 1,000 Hz)

	LO Z	HI Z
Open Circuit Voltage*	-82.0 dB (0.08 mV)	-59.5 dB (1.1 mV)
Power Level**	-60.5 dB	

*0 dB = 1V/μbar

**0 dB = 1 mW/10 μbar

Phasing

Positive pressure on the diaphragm produces positive voltage:

- on pin 2 with respect to pin 3—LO Z;
- on pin 1 with respect to pin 3—HI Z

Switch

Built-in On/Off, Impedance-Selection switch with lockplate to lock out undesired impedance, and option to lock switch On

Connector

Three-pin professional (XLR) type

Cartridge Shock Mount

Internal rubber vibration-isolator

UNIDIRECTIONAL DYNAMIC MICROPHONE

SHURE®
MODEL 588SD

Swivel Adapter

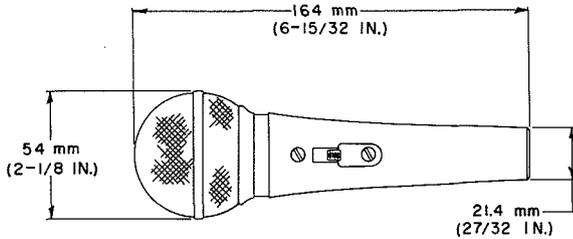
Positive action, adjustable through 90° from vertical to horizontal, slip-out removal for handheld use, suitable for mounting on stand with 5/8"-27 thread

Case

Platinum beige enamel die casting with platinum beige steel screen

Dimensions

See Figure 3



OVERALL DIMENSIONS
FIGURE 3

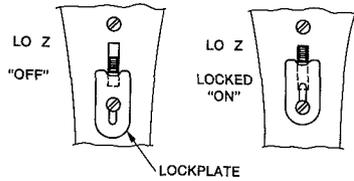
Net Weight

284 grams (10 oz)

IMPEDANCE SELECTION AND SWITCH LOCKING

The microphone is shipped with the switch locked in the low-impedance (LO Z) position.

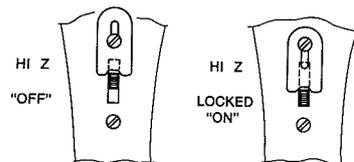
- A. To lock the switch "On" in low impedance,
1. Loosen the screw holding the lockplate.
 2. Move the switch button to "On."
 3. Slide the lockplate up until the notch butts against the button.
 4. Tighten the screw.



LOW-IMPEDANCE LOCKPLATE POSITIONS
FIGURE 4

- B. To change the switch to the high-impedance (HI Z) position,
1. Remove the screw holding the lockplate.
 2. Move the switch to the "Off" (Center) position.
 3. Remove the lockplate and replace the screw.
 4. Remove the screw at the top of the switch.
 5. Place the lockplate in position* with the notch toward the switchbutton.
 6. Replace and tighten the screw.

*The lockplate has two positions, just as in low-impedance above: either locked in high impedance, or locked "On" in high impedance.

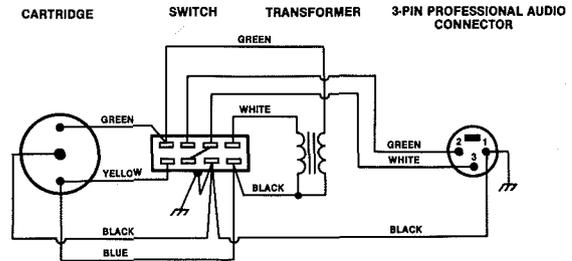


HIGH-IMPEDANCE LOCKPLATE POSITIONS
FIGURE 5

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 balanced low-impedance microphone, interchange the cable conductor leads at one end of the cable. To change the phase in the microphone, the microphone cartridge leads must be interchanged (see Figure 6). This should be performed by your dealer, the Shure Factory Service Department, or other qualified service personnel.



INTERNAL CONNECTIONS
FIGURE 6

FURNISHED ACCESSORY

Swivel Adapter A25B

OPTIONAL ACCESSORIES

Line Matching Transformer A95 Series
 Desk Stand S33B, S37A, S39A
 Isolation Mount A55M
 Dual Mount A26M
 Windscreen A58WS Series
 Cable: 4.6m (15 ft) or 6.1m (20 ft)
 1-conductor with phone plug
 (High Impedance) C15A, C20B
 7.6m (25 ft) 2-conductor
 with 3-pin professional audio connectors
 (Low Impedance) C25J, C25F

REPLACEMENT PARTS

Cartridge R15
 Screen and Grille Assembly RK253G
 On/Off Switch 55A153

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 60202-3696

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.