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

<table>
<thead>
<tr>
<th>Type</th>
<th>Dynamic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Response</td>
<td>80 to 13,000 Hz (see Figure 1)</td>
</tr>
</tbody>
</table>

![Typical Frequency Response](image)

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

![Typical Polar Patterns](image)

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

<table>
<thead>
<tr>
<th>LO Z</th>
<th>HI Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Circuit Voltage*</td>
<td>-82.0 dB</td>
</tr>
<tr>
<td>Power Level**</td>
<td>-60.5 dB</td>
</tr>
</tbody>
</table>

*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
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

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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 switch button.
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 in-
terchanged (see Figure 6). This should be performed by
your dealer, the Shure Factory Service Department,
or other qualified service personnel.

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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.