

MODELS 588SA AND 588SB

UNIDIRECTIONAL DYNAMIC MICROPHONES



GENERAL

The UNISPHERE® B Models 588SA and 588SB are unidirectional dynamic microphones with a very effective filter for excellent protection from breath popping and wind noise. The microphones are available either as high impedance (588SA) or low impedance (588SB); they provide natural, lifelike reproduction of vocal and instrumental music; they are ideal for sound reinforcement and tape recording.

These microphones are particularly suitable when unidirectional sound pickup is required because of feedback problems. Because they are unidirectional and pick up sound from the front while suppressing sound from the rear, the 588 Series can be used closer than usual to loudspeakers without the annoying squeal caused by feedback. They also permit higher amplifier gain before feedback. They are very appropriate in locations such as theaters, night clubs, auditoriums, schools and churches; indoors or outdoors.

Microphone Features:

- Ball-type grille filter provides protection from pop and wind; permits closeup microphone use without breath popping; permits outdoor use without wind noise
- True cardioid pickup pattern, symmetrical about axis and uniform at all frequencies, suppresses feedback, retains same tonal quality of voice or music even if performer or speaker moves about
- Shock-mounted cartridge minimizes handling and mechanical noise
- Built-in On-Off switch with provision for locking switch on
- Adjustable swivel adapter supplied allows aiming microphone and permits quick removal for handheld use

VARIATIONS

- 588SA: High impedance, supplied with cable* having a 3-socket professional audio connector on microphone end.
- 588SAC: Same as Model 588SA, but with phone plug on equipment end of cable*.
- 588SA-LC: Same as Model 588SA, but without cable.
- 588SB: Low impedance, supplied with cable* having 3-socket professional audio connector on microphone end.
- 588SB-CN: Same as Model 588SB, but with 3-pin professional audio connector on equipment end of cable*.
- 588SB-LC: Same as Model 588SB, but without cable.

*See Specifications for detail on cable.

SPECIFICATIONS

Туре

Dynamic

Frequency Response 80 to 13,000 Hz (See Figure I)









TYPICAL POLAR PATTERNS FIGURE 2

Impedance

Model 588SA – Microphone impedance is "High" for connection to high-impedance microphone inputs. Model 588SB – Microphone rating impedance is 150 ohms (180 ohms actual) for connection to microphone inputs rated at 19 to 300 ohms



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Output Level (at 1,000 Hz)

	588SA	588SB
Open Circuit Voltage*	—59.5 dB	—82.0 dB
, .	(1.1 mV)	(.08 mV)
Power Level**	. ,	— 60.5 dB

*0 dB = 1 volt per microbar

**0 dB = 1 milliwatt with 10 microbars

Phasing

588SA: Positive pressure on diaphragm produces positive voltage on pin 1 with respect to pin 3. 588SB: Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3.

Switch

Built-in On-Off switch with lockplate. To lock switch in On position, remove screw on lockplate and turn lockplate 180°. Reassemble and tighten screw.

Cartridge Shock Mount

Internal rubber vibration-isolator

Cable

588SA: 4.6m (15 ft) one-conductor shielded with professional 3-socket audio connector* on microphone end

588SAC: 4.6m (15 ft) one-conductor shielded with professional 3-socket audio connector* and standard 1/4-inch phone plug

588SB: 4.6m (15 ft) two-conductor shielded with professional 3-socket audio connector* on microphone end

588SB-CN: 6.1m (20 ft) two-conductor shielded with professional 3-socket and 3-pin audio connectors*

588SA-LC, 588SB-LC: supplied without cable

*Designed to mate with Cannon XL series, Switchcraft A3 (Q.G.) series or equivalent connector.

Swivel Adapter

Positive action, adjustable through 90° from vertical to horizontal, permits easy removal for handheld use, suitable for mounting on stand with %"-27 thread

Case

Silver-finish die casting with chrome-plated steel screen

Dimensions

See Figure 3



OVERALL DIMENSIONS FIGURE 3

Net Weight (less cable) 340 grams (12 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, either the microphones or their cables (low impedance only) 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 low-impedance microphone cable, either use a Shure A15PRS Phase Reverser or interchange the wires connected to pins 2 and 3 of the connector. To change the phase of a 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.



MODEL 588SA



INTERNAL CONNECTIONS **FIGURE 4**

FURNISHED ACCESSORY

Swivel AdapterA25B

OPTIONAL ACCESSORIES

Line Ma	tching Transformer	A95 Series
	and	
Isolatio	n Mount	A55M
Dual Mo	ount	A26M
Windsc	reen	A58WS Series
Cable:	6.1m (20 ft) 1-conductor with	phone
	plug	C20A
	7.6m (25 ft) 2-conductor with	
	professional audio connec	tors .C25B,C25F
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REPLACEMENT PARTS

R8
RK82G
RK81S
RK40P
C83
C59
.C20H

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.