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
Type
Dynamic
Frequency Response
80 to 13,000 Hz (See Figure 1)

Polar Pattern
Cardioid (unidirectional) pattern—Effective rejection of sound at rear of the microphone is uniform at all frequencies, while front pickup characteristics are uniform about the axis. See 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
Switch
Swivel Adapter
Cable
Output Level (at 1,000 Hz)  
588SA  588SB  
Open Circuit Voltage* ....... -59.5 dB -82.0 dB  
(1.1 mV) (0.8 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 ¼-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 ⅛"-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.

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.