UNIDIRECTIONAL DYNAMIC MICROPHONE

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

GENERAL
The Model LM1000 UNISHERE® B is a unidirectional dynamic microphone with a very effective filter for excellent protection from breath popping and wind noise. The microphone provides natural, lifelike reproduction of vocal and instrumental music; it is ideal for sound reinforcement and tape recording.

This microphone is particularly suitable when unidirectional sound pickup is required because of feedback problems. Because it is unidirectional and picks up sound from the front while suppressing sound from the rear, the LM1000 can be used closer than usual to loudspeakers without the annoying squeal caused by feedback. It also permits higher amplifier gain before feedback. It is very appropriate in locations such as theaters, nightclubs, auditoriums, schools and churches; indoors or outdoors.

Model LM1000-CN is supplied with a 7.6-meter (25-foot), two-conductor, shielded cable with XLR-type professional audio connectors. Model LM1000-LC is supplied without cable.

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

SPECIFICATIONS

Type
Dynamic

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
Microphone rating impedance is 150 ohms (180 ohms actual) for connection to microphone inputs rated at 19 to 300 ohms

Output Level (at 1,000 Hz)
Open Circuit Voltage*: −82.0 dB (0.08 mV)
Power Level**: −60.5 dB
* 0 dB = 1 volt per microbar
** 0 dB = 1 milliwatt with 10 microbars

Phasing
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
Connector
Three-pin professional audio connector*

Cable (LM1000-CN only)
7.6m (25 ft) two conductor shielded with professional
3-socket and 3-pin audio connectors*

Swivel Adapter
Positive action, adjustable through 90° from vertical
to horizontal, permits easy removal for handheld use,
suitable for mounting on stand with ⅜"-27 thread

Case
Black-enamedled die casting with black steel-mesh grille

Dimensions
See Figure 3

Net Weight (less cable)
340 grams (12 oz)

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

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.

INTERNAL CONNECTIONS

FURNISHED ACCESSORIES
Swivel Adapter .............................................. A25B
Cable (LM1000-CN only) ............................... C25J

OPTIONAL ACCESSORIES
Line Matching Transformer ............................. A95 Series
Desk Stand .................................................. S33S, S37A, S39A or S40A
Quick Disconnect Adapter .............................. A45
Isolation Mount .......................................... A55M
Dual Mount ................................................ A26M
Windscreen ............................................... A58WS Series
Floor Stand (Weighted base) ......................... MS-10C
Floor Stand (Tripod base) ........................... S15
Baby Boom .............................................. BB-44

REPLACEMENT PARTS
Cartridge ................................................ R15
Switch ................................................... RK81S
Screen and Grille ...................................... 90E1498
Plug Element .......................................... RK40P

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.