

General Description

The Model SM7B dynamic microphone has a smooth, flat, wide-range frequency response appropriate for music and speech in all professional audio applications. It features excellent shielding against electromagnetic hum generated by computer monitors, neon lights, and other electrical devices. In addition to its standard windscreen, it also includes the A7WS windscreen for close-talk applications.

The SM7B is an outstanding choice for the following applications:

- Recording Studio—Instrumental and Vocal
- Location Recording
- Motion Picture and Television Scoring
- · Television, Talk Shows, and News Desks
- Radio Announcing and Production
- Narration

Features

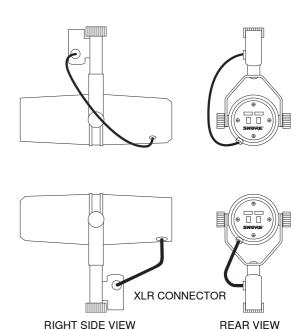
- Flat, wide-range frequency response for clean and natural reproduction of both music and speech
- Switchable bass rolloff and mid-range emphasis (presence boost) settings
- Shielded against broadband interference from computer monitors and other electrical devices—excellent rejection of electromagnetic hum
- Internal "air suspension" shock isolation virtually eliminates mechanical noise transmission
- A7WS windscreen included for close-up vocals or narration
- Swiveling bracket with integrated stand adapter for easy mounting and precise microphone positioning
- Cardioid polar pattern, uniform with frequency and symmetrical about axis, to provide maximum rejection and minimum coloration of off-axis sound
- Rugged construction and excellent cartridge protection for outstanding reliability

Mounting Instructions

The SM7B can be mounted on a microphone stand or hung from a boom. It is shipped in the boom mounting configuration. To set up the SM7B in the microphone stand mounting configuration, proceed as follows:

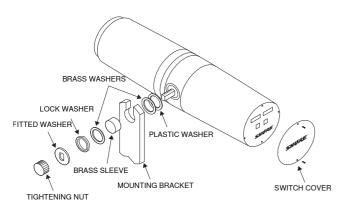
- 1. Remove tightening nuts on the sides.
- Remove the fitted washers, the lock washers, the outer brass washers, and the brass sleeves.
- 3. Slide the bracket off the microphone. Be careful not to lose the washers still on the microphone.
- 4. Invert and rotate the bracket. Slide it back onto the bolts over the brass and plastic washers still on the microphone. The bracket should fit so the XLR connector faces the rear of the microphone, and the Shure logo on the back of the microphone is right-side up.
- Replace the brass sleeves. Be sure they are seated properly within the inner washers.
- 6. Replace the outer brass washers, the lock washers and the fitted washers.
- Replace the tightening nuts and tighten the microphone at the desired angle.

NOTE: If the tightening nuts do not hold the microphone in position, one or both of the brass sleeves may not be properly seated within all the washers.



Boom and Microphone Stand Mounting Configuration

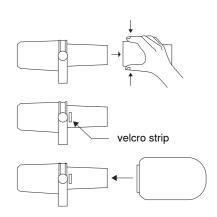
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MOUNTING ASSEMBLY - EXPLODED VIEW

Windscreen

Use the standard windscreen for general voice and instrumental applications. Use the supplied A7WS windscreen for close-talk applications, such as voice overs or radio announcements, as it offers maximum protection from plosive breath noise and creates a warmer, more intimate sound.



To install the A7WS, follow these instructions:

- To avoid tearing the windscreen during removal, grip it from the plastic ring and the base and remove by gently pulling and twisting.
- If desired, adhere the supplied velcro strips around the microphoen grille, approximately one inch from the base of the grille (as shown) to hold new windscreen in place.
- Install the A7WS windscreen by stretching over the velcro strips, then
 squeezing at the base of the windscreen to adhere to the velcro. No
 velcro strip inside the windscreen is needed, as the windscreen itself
 adheres to the velcro. To remove, grip at the base of the windscreen and
 pull while twisting.

Specifications

Type

Dynamic (moving coil)

Frequency Response

50 to 20,000 Hz

Polar Pattern

Cardioid

Output Impedance

150 Ω

Sensitivity

(@ 1 kHz, open circuit voltage)

-59 dBV/Pa[1] (1.12 mV)

Hum Pickup

(typical, at 60 Hz, equivalent SPL/mOe)

11 dB

Polarity

Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3 $\,$

Net Weight

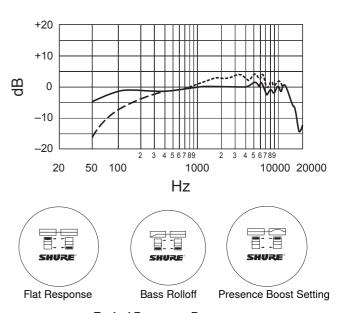
0.764 kg (1.69 lbs)

⁰ [1] 1 Pa=94 dB SPL

Housing

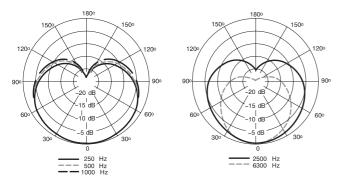
Dark gray enamel aluminum and steel case with dark gray foam windscreen.

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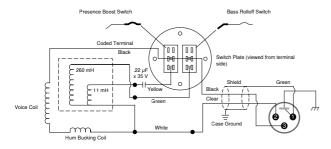


Typical Frequency Response

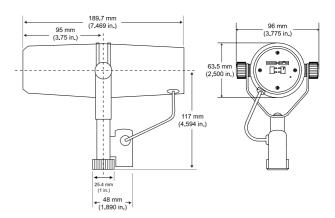
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Typical Polar Pattern



Internal Connections



Overall Dimensions

Accessories

Furnished Accessories

Switch Cover Plate for SM7, SM7A and SM7B	RPM602
Large Black Foam Windscreen for SM7, also see RK345	A7WS
5/8" to 3/8" Thread Adapter	31A1856

Optional Accessories

25 foot (7.5m) Triple-Flex [®] Microphone XLR Cable	C25F
with chrome connectors	

Replacement Parts

Cartridge for SM7, SM7A and SM7B	RPM106
Black Windscreen for SM7, SM7A, SM7B, also see A7WS	RK345
Nut and Washer for SM7, SM7A and SM7B Yoke Mount	RPM604