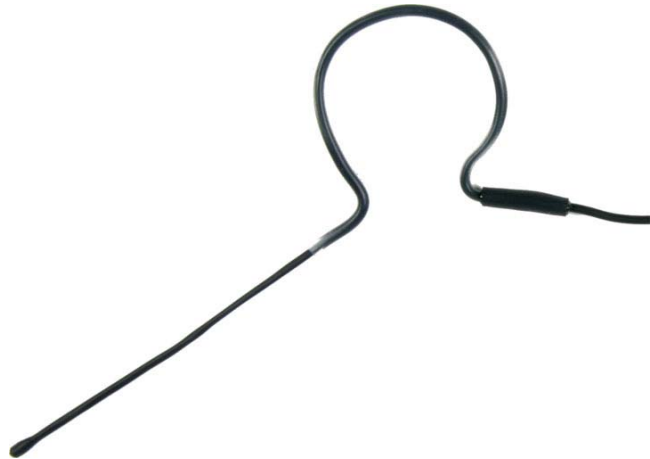


RE97S
Micro-Headworn
Condenser Microphone
with TA4F Connector



Key Features:

- **Ultra-Low Profile for Inconspicuous Use**
- **Lightweight, Durable**
- **Interchangeable for Left or Right Ear**
- **Omnidirectional Polar Pattern Provides Clean Sound and Uniform Response**



General Description:

The Electro-Voice® RE97S is an Ultra-low profile, omnidirectional, back-electret condenser headworn microphone designed for use with standard Shure TA4M belt packs. The RE97S is intended for spoken word use such as Houses of Worship, Corporate AV, Theatre, Fixed Install, and other venues where a full-range, natural, well-balanced sound is required. The omnidirectional polar pattern of the RE97S provides a clean and accurate sonic quality and uniform output regardless of the microphone's position relative to the sound source.

The RE97S is designed to be extremely flexible and easily formed to fit over the ear of any user. The malleable boom and earhook can be shaped to match virtually any contour. The TA4F terminated cable is discretely routed behind the user and attaches to the shirt collar with the elegant clothing clip included, keeping the cable out of the way and preventing the microphone from being pulled off the user's ear. The supplied windscreen can be used in windy environments and to reduce breath noise.

The RE97S comes with a shielded 4ft cable terminated in a high quality TA4F connector. It is wired for use with standard TA4M Shure belt packs, and operates from a 5VDC supply.

Technical Specifications:

Generating Element:	Condenser, back electret
Frequency Response:	50 – 15kHz
Polar Pattern:	Omnidirectional
Sensitivity, 1kHz (Open Circuit):	4.0mV / Pascal
Clipping Level:	>125 dB SPL
Equivalent Noise:	32 dBA
Dynamic Range:	93 dB
Output Impedance, 1kHz:	3000 ohms
Power Requirements:	5 VDC
Current Consumption:	310 uA
Polarity:	Positive pressure on diaphragm produces a positive voltage on pin 2.
Dimensions	Boom length (as shipped): 3.4 in. (86.4 mm) Boom diameter: 0.080 in. (2.00 mm) Capsule diameter: 0.120 in. (3.05mm) Earhook diameter: 0.090 in. (2.30 mm)
Cable:	4 ft (1.22m) long, 0.077 in. (1.95mm) diameter
Connector Wiring:	Pin #1 – Ground, Shield Pin #2 – Bias Voltage Pin #3 – Audio Pin #4 – N/C
Accessories Furnished:	Windscreen Clothing Clip Gig Bag
Color:	Beige, Brown, Black
Net Weight:	0.6 oz. (17g) Mic only: 0.2 oz. (5.7g)

Application Notes:

Figures 1 through 3 show the ideal position of the microphone in use. The end of the boom should be located approximately $\frac{1}{2}$ " (13mm) back from the corner of the mouth and as close to the face as possible. This position will optimize the signal to noise ratio and minimize the acoustic effects of breath noise.



Figure 1



Figure 2

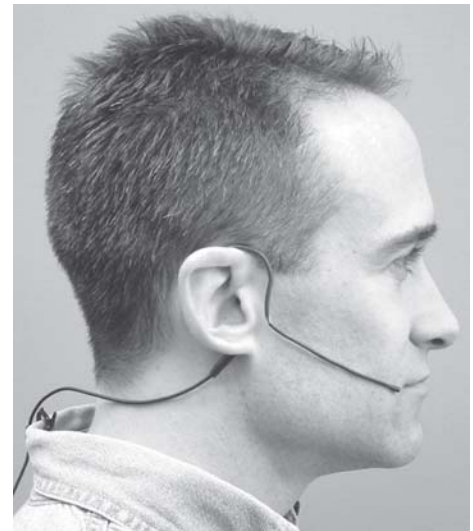


Figure 3

The microphone cable is routed behind the neck of the user and secured in place with the supplied clothing clip as shown in Figure 4 and 5. Allow some slack in the cable to enable the user's head complete range of motion in both directions without pulling the cable from the clothing clip.



Figure 4

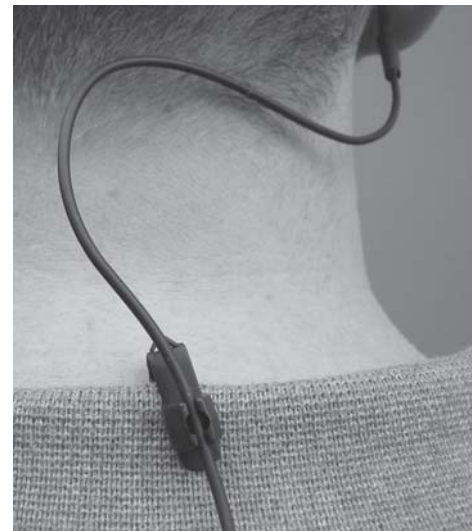


Figure 5

Fitting:

1. **Shape the boom:** Figure 6 shows the microphone boom as received. Before placing the microphone over the user's ear, apply a slight bend to the boom, starting at the middle of the earhook, to aid the microphone boom in forming to the user's face.

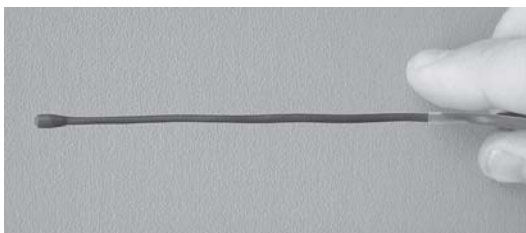


Figure 6

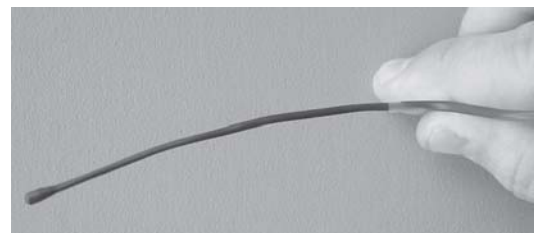


Figure 7

The boom can be easily straighten by pinching between the thumb and forefinger, and applying pressure as your fingers slide away from the earhook. The boom can be reshaped countless times without ill effect on the performance of the microphone or degradation of the mechanical structure.

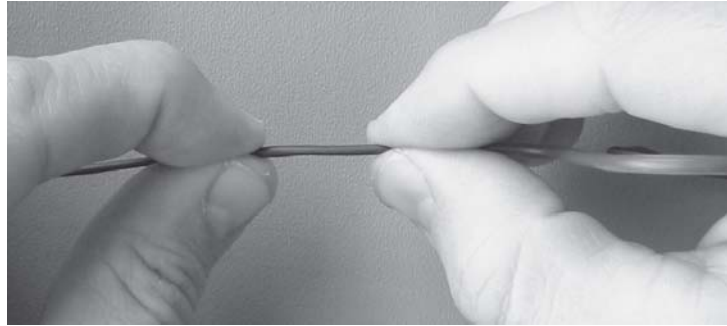


Figure 8

2. Fit to ear: Place the microphone over the ear. Press on the earhook from all sides to form it to the contour of the ear. The shape of the earhook, as shipped, is designed to comfortably fit many users without adjustment. To make the fit to the ear more secure, press on the top and bottom of the earhook using thumb and forefinger.

3. Adjust boom length:

If the microphone is positioned too close or too far away from the corner of the mouth (See Figures 1-3 for ideal position), the boom length can be easily changed by reshaping the bend at the earhook. Figure 9 shows the microphone as received. To bring the microphone closer to the mouth (i.e. lengthen the boom), simply straighten out the bend at the earhook (Figure 10), and reapply the bend further up the earhook (Figure 11). To move the microphone further away from the mouth (i.e. shorten the boom), follow the same procedure, but reapply the bend further down the length of the boom. Changing the length of the boom will likely require re-shaping of the microphone to the ear for optimum comfort.

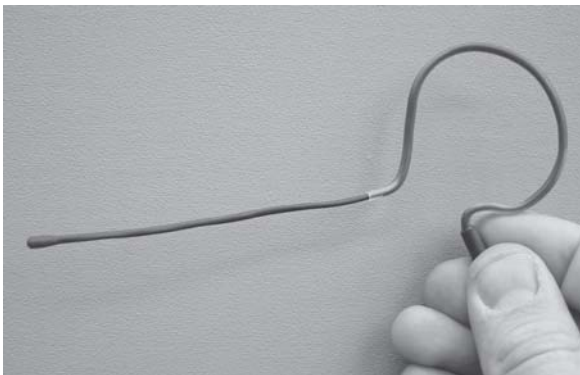


Figure 9

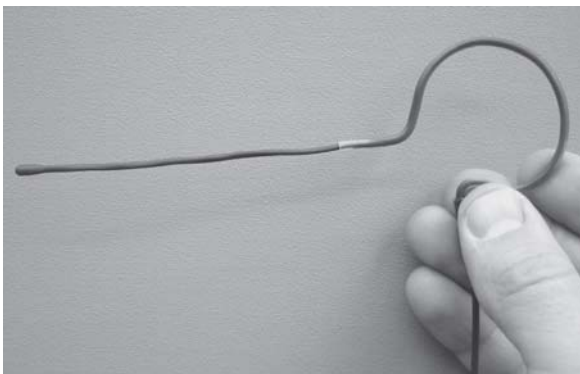


Figure 11

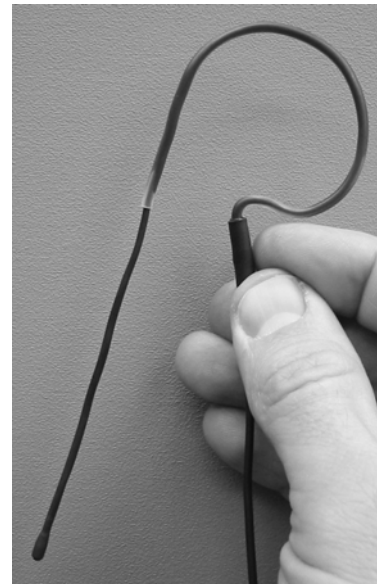
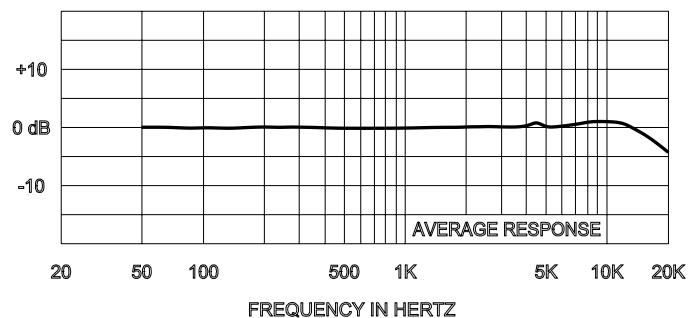
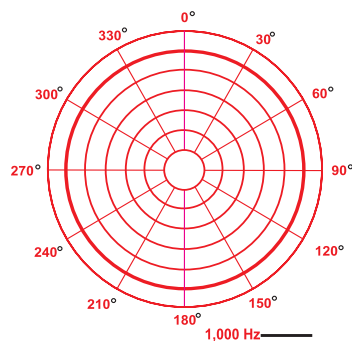


Figure 10

Frequency Response:

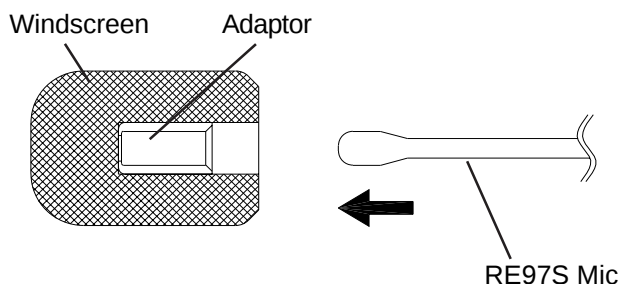


Polar Response:

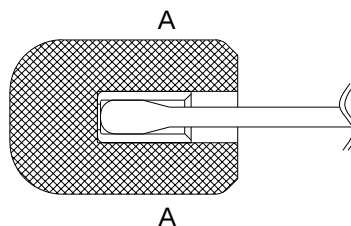


Windscreen Assembly:

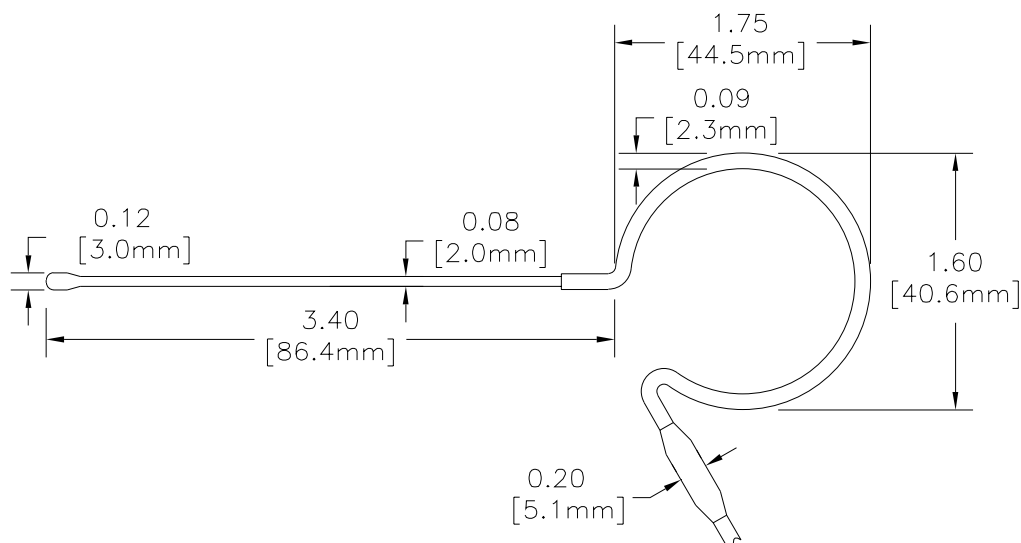
Windscreen is supplied with the molded plastic adaptor already installed.



Hold windscreen on the sides at the "A" locations. Firmly press microphone into adaptor until it stops.



Dimensions:



12000 Portland Avenue South, Burnsville, MN 55337
Phone: 952/884-4051, Fax: 952/884-0043

www.electrovoice.com

© Telex Communications, Inc. 10/2007

Part Number 38110-499 Rev B



U.S.A. and Canada only. For customer orders, contact Customer Service at:

800/392-3497 Fax: 800/955-6831

Europe, Africa, and Middle East only. For customer orders, contact Customer Service at:

+ 49 9421-706 0 Fax: + 49 9421-706 265

Other International locations. For customer orders, contact Customer Service at:

+ 1 952 884-4051 Fax: + 1 952 736-4212

For warranty repair or service information, contact the Service Repair department at:

800/553-5992 or 402/467-5321

For technical assistance, contact Technical Support at: 800/392-3497 or 952/736-4656

Specifications subject to change without notice.