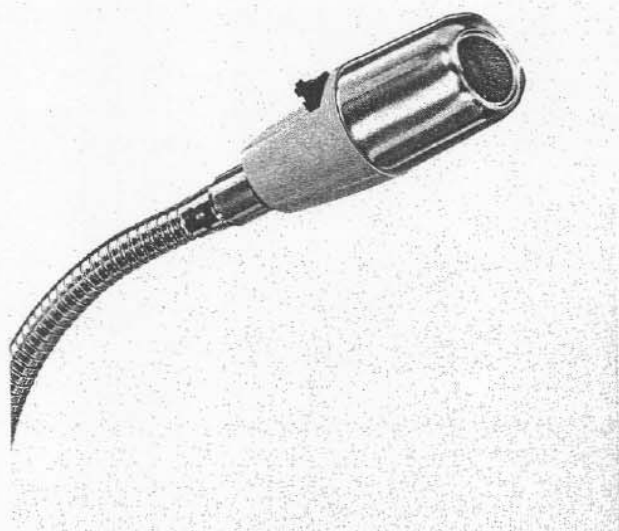


FIGURE 1 – Dimensions

DESCRIPTION AND APPLICATIONS

The Electro-Voice Model 634ASR is a dynamic omnidirectional microphone with an integral cable and a double pole, double throw push-to-talk on/off switch. The extra switch contacts may be used to activate a relay or for like purposes. Two conductors are provided in the integral cable to allow wiring the switch into a circuit. In addition, the 634ASR is provided with a simple to use switch lock which has been engineered to prevent accidental lock-on. The microphone case is threaded with standard female 5/8"-27 threads for convenient attachment to a standard boom or gooseneck with complete concealment of the cable. The 634ASR has a built-in mechanical isolator that reduces noise caused by the flexing of the gooseneck or other manipulation of the mounting system. The isolator acts as a low pass filter effectively reducing mid frequency vibration that would be most objectionable over a limited frequency range paging system. This microphone's features make it very useful in paging, communications, and language lab applications.

SPECIFICATIONS

Generating Element:	Moving coil dynamic
Frequency Response:	70–10,000 Hz
Polar Pattern:	Omnidirectional
Impedance:	150 ohms or Hi-Z (specify on order)
Output Level,	
Hi-Z:	–57 dB (0 dB = 1 volt/dyne/cm)
150 ohms:	–57 dB (0 dB = 1 volt/dyne/cm ²)

Diaphragm:	E-V Acoustalloy®
EIA Sensitivity,	
Hi-Z:	–153 dB
150 ohms:	–151 dB
Case Material:	Chrome plated die-cast zinc and gray, high impact Cyclocac
Dimensions:	1-3/4" dia. (44.6mm) x 4-3/8"l. (112mm)
Mounting:	5/8"-27 thread
Switch:	Shorts mike in off position and closes relay circuit
Cable,	
Hi-Z:	6' three conductor one shielded plastic jacketed
150 ohms:	6' four conductor, two shielded plastic jacketed

PARALLEL OPERATION OF 634ASR LO-Z

If the 634ASR Lo-Z is to be used in applications such as multiple microphone paging installation (where several units are connected in parallel to a single microphone input) connections should be revised as shown in Figure 3. This connection "opens" the microphone output when the switch is in the "off" position. Note: "open-when-off" operation is not advisable with the 634ASR Hi-Z due to the high susceptibility of high-impedance circuits to induced hum. There are two red wires on the center lug of the switch. Be certain that the cable red wire is moved to the lower (vacant) switch lug on the same side of the switch.

DISASSEMBLY

To disassemble the microphone for switch wiring changes, you must first get to the slotted screw that fastens the front case to the back case. To do this the stand mount, shock isolator assembly must be removed by first loosening, but not removing, the knurled nut. With a small screwdriver or similar tool, gently push the rubber isolator away from the case wall and pull the entire assembly out of the case. This will uncover the slotted common screw that holds the case parts together. Lock the switch and tape it in the on position. Remove the screw. Orient the microphone with the switch facing up and the front to your left. Slowly pull the case front away from the rear while pushing the front case away from you so that the bracket that the screw was attached to will clear the switch assembly (see Figure 2). If not done carefully, it is possible to pull the switch assembly loose from the case, causing it to automatically disassemble into several pieces.

Reassembly follows the reverse order of disassembly quite nicely. The only problem area might be getting the rubber isolator back into the case. Dilligence with a small blunt object will allow accomplishment of this task.

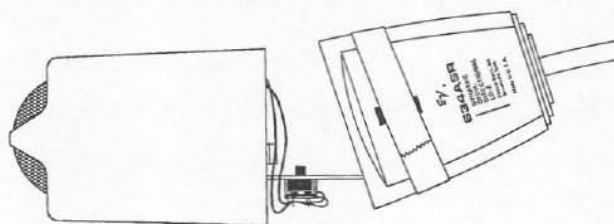


FIGURE 2 — Disassembling microphone

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The microphone shall be a pressure, dynamic type with uniform frequency response from 70 to 10,000 Hz. The diaphragm shall be of non-metallic Acoustalloy. The microphone output shall be specified as 150 ohms or Hi impedance. Output level shall be -57 dB with 0 dB equaling 1 volt/dyne/cm² at high impedance or 1 mw/10 dynes/cm² at 150 ohms. EIA sensitivity rating shall be specified as either -153 dB at high impedance or -151 dB at 150 ohms.

The microphone shall have a push-to-talk switch which shorts microphone output in "off" position and provides an extra set of contacts for use in field derived circuits. The case shall be of high pressure die-cast zinc with satin chrome finish and gray, high impact Cylolac. A 6-foot three conductor, one shielded, plastic jacketed cable shall be provided for the Hi-Z version while the Lo-Z shall have a 6-foot four conductor, two shielded, plastic jacketed cable. The microphone shall include 5/8"-27 mounting threads and shall permit complete concealment of cable when mounted.

A mechanical isolator shall be part of the microphone in order to reduce noise caused by flexing of the gooseneck or other manipulation of the mounting system. The Electro-Voice Model 634ASR (Hi-Z or Lo-Z) is specified.

WARRANTY (Limited)

Electro-Voice microphones are guaranteed for the life of the microphone against malfunction due to defects in workmanship and materials. If such malfunction occurs, microphone will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish, appearance items, cables, cable connectors, or switches and does not cover malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

For correct shipping address and instructions on return of Electro-Voice products for repair and locations of authorized service agencies, please write: Service Department, Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107 (Phone 616/695-6831).

Electro-Voice also maintains complete facilities for non-warranty service.

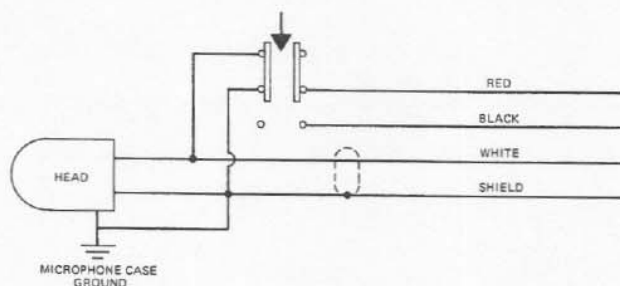
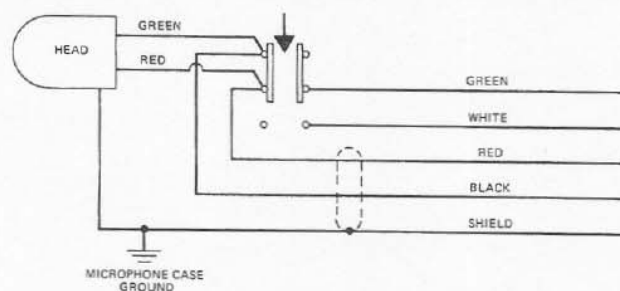
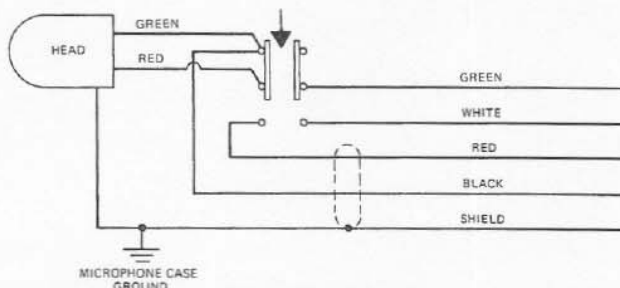


FIG. 3 — Wiring Diagram of 634ASRH (Hi-Z unbalanced)



Balanced Lo-Z with mike shorted in switch "off" position (as shipped)



Balanced Lo-Z with mike line open in "off" position

FIGURE 4 — Wiring Diagrams of 634ASRL