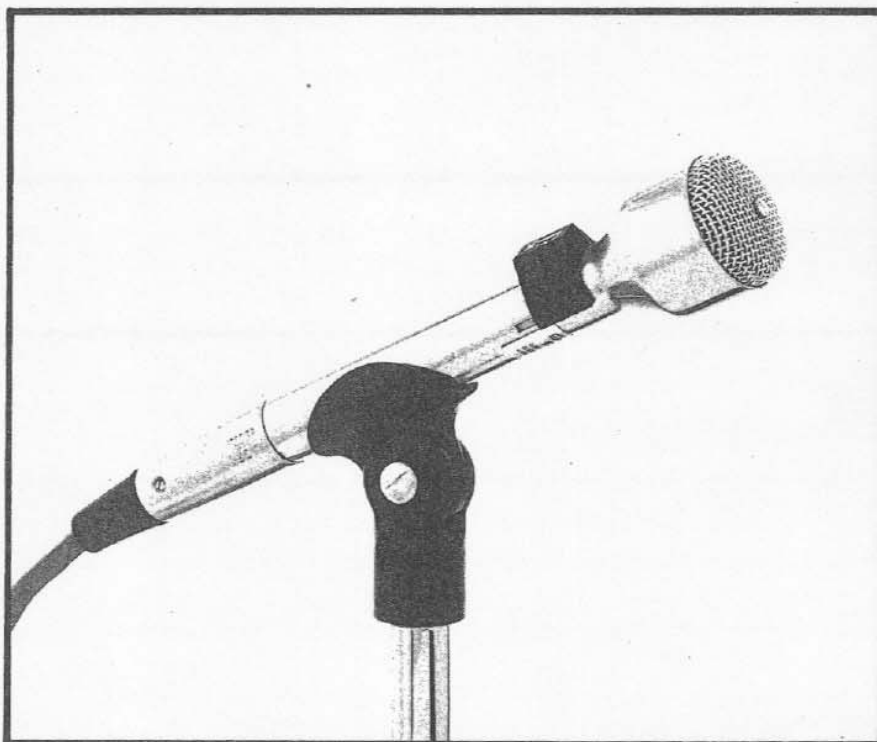




Electro-Voice®
a gulton company

Model 631B Omnidirectional Dynamic Microphone

SPECIFICATIONS

Generating Element:
Dynamic

Frequency Response:
80 to 13,000 Hz

Polar Pattern:
Omnidirectional

Impedance:
150 ohm/Hi-Z selectable

Impedance Change:
Rear of connector insert

Output Level,
Lo-Z:
-56 dB
(0 dB = 1 volt/dyne/cm²)

Hi-Z:
-56 dB
(0 dB = 1 volt/dyne/cm²)

EIA Sensitivity Rating,
Lo-Z:
-150 dB

Hi-Z:
-152 dB

Diaphragm:
Electro-Voice Acoustalloy®

Switch:
Magnetic On/Off

Case:
Zinc die cast

Finish:
Satin Chrome

Dimensions:
153.2 mm (6.03 in.) long
35.3 mm (1.39 in.) dia. (major),
19.1 mm (.75 in.) shank diameter

Net Weight:
170.1 g (6 ounces), less cable

Cable,
631B:
4.56 m (15 ft), two-conductor,
shielded, vinyl-jacketed, with
Switchcraft A3F connector at
microphone end

631BP:
4.56 m (15 ft), two-conductor,
shielded, vinyl-jacketed, with
Switchcraft A3F connector at
microphone end and the addition
of standard 1/4 in. phone plug at
equipment end

LC FOLLOWING MODEL
NUMBER INDICATES MICRO-
PHONE LESS CABLE

Connector in Mike:
Switchcraft A3M

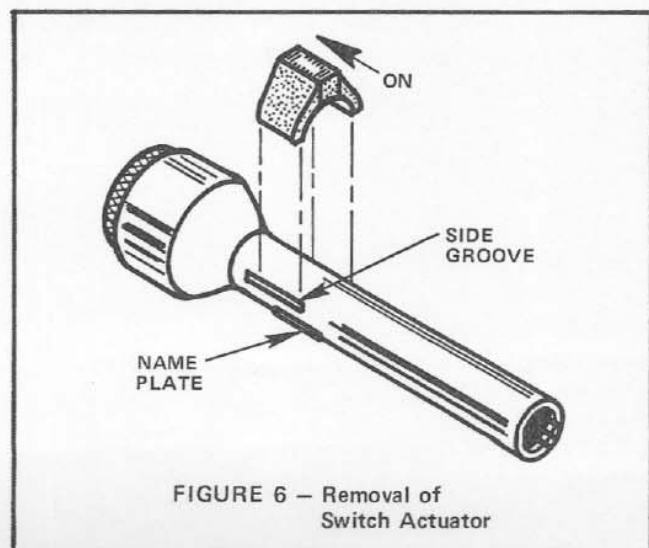
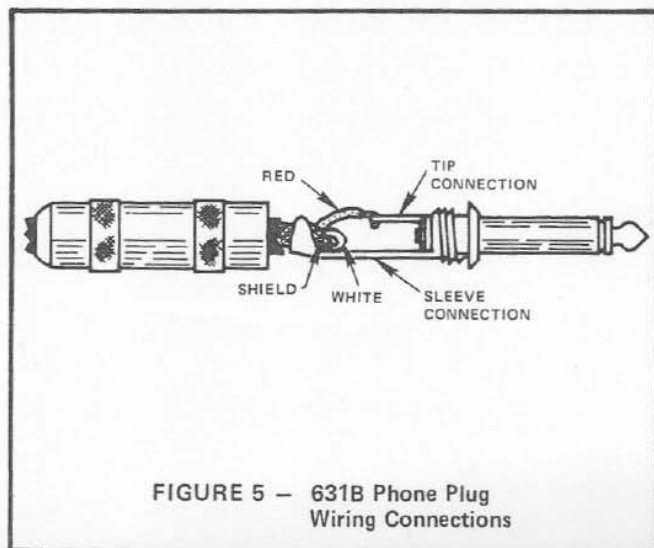
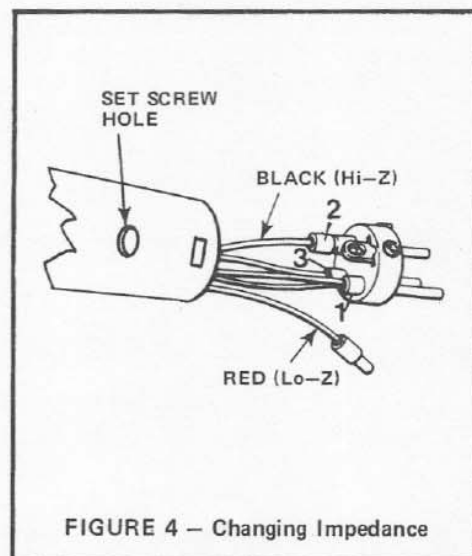
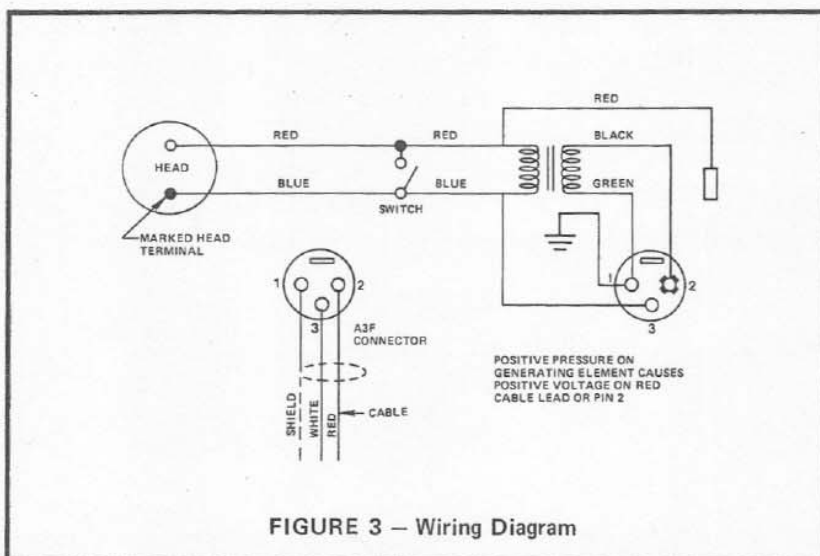
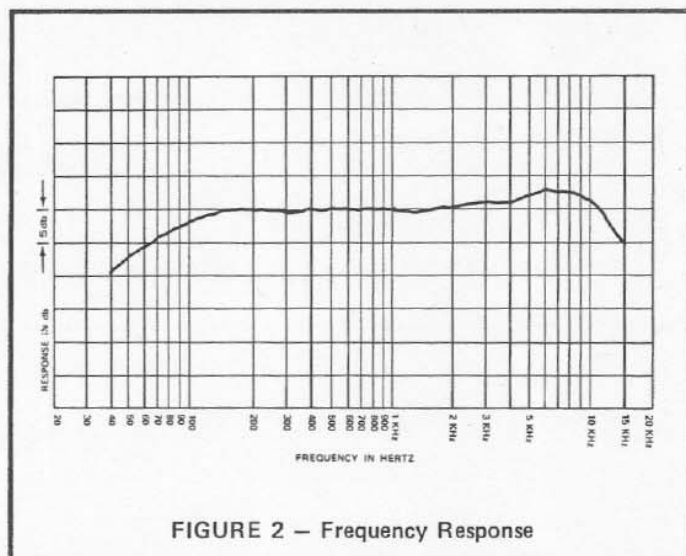
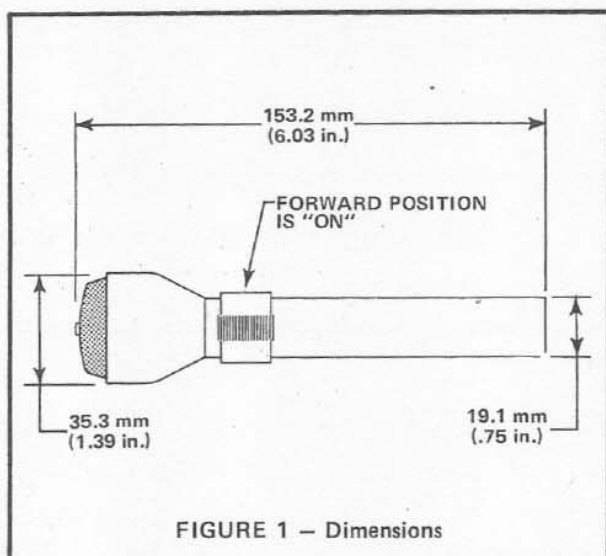
Optional Accessories:
314E grey windscreen
458 simulated leather zippered
pouch
PLC-25X 25 ft cable with A3F and
A3M connectors
PLC-25P 25 ft cable with A3F &
1/4 in. phone plug connectors
PLC-25T 25 ft cable terminated with
A3F connector at one end and
underminated at the other end

DESCRIPTION AND APPLICATIONS

The Electro-Voice Model 631B is a dynamic omnidirectional microphone designed to yield outstanding performance in demanding public address and semi-professional recording applications. Created particularly for close working, hand-held situations, it is equally effective for musical pickup on a table or floor stand. A unique new concept utilizes a sealed magnetic "on/off" switch inside the microphone case. A magnetic actuator outside the case is easily removable without tools — leaving the microphone connected for the "on" mode of operation.

The Model 631B features the exclusive non-metallic Electro-Voice Acoustalloy® diaphragm which permits very smooth response over a wide frequency range and withstands extremes of humidity, temperature, and corrosive effects of salt air making it nearly environmentally indestructible with normal use. The microphone utilizes the mechanical nesting principle whereby internal parts are nested one within another, resulting in an assembly that is nearly mechanically indestructible.

A specially designed internal shock absorber dramatically reduces pickup of cable and other mechanical noise generated by external contact. The integral four-stage pop and dust filter



ensures unusual freedom from noise generated by the movement of air over the microphone surfaces. A professional-type 3-pin A3M connector is built into the microphone allowing easy connect and disconnect.

Impedance Change Instructions:

Impedance may be changed from Hi- to Lo-Z, or vice-versa, by changing one pin-connector at the rear of the microphone. Turn the setscrew in the connector-insert counter clockwise (it is a reverse-threaded screw and will not come out, but rather disappear into the insert). Pull the insert straight out from the end of the microphone exposing the wires connected to it. (See Fig. 4) For high impedance, the black wire should be connected to Pin 2 of the insert. For low impedance, the red wire should be connected to Pin 2. (A sleeve on the connector slides over the pin to insulate and assure a tight connection.)

Unbalanced Lo-Z and Hi-Z operation requires that the black wire at the equipment end of the cable be connected together with the ground shield to the sleeve (or ground connection) of the plug. The white wire is connected to the tip (or positive). (See Fig. 5) This is the way the plug is connected on the 631BP model. Impedance may be changed to unbalanced Lo-Z as described above.

REMOVAL OF SWITCH ACTUATOR

The switch actuator can be removed where a "no switch" operation is desired. (See Figure 6) Simply slip fingernail under edge at side of actuator and pry off. This leaves the microphone locked in an "on" condition. To replace the switch actuator press into position with the arrow pointing to the front of the microphone.

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The microphone shall be an omnidirectional dynamic type with wide range frequency response from 80 to 13,000 Hz. It shall have a non-metallic Acoustalloy diaphragm and magnetic shield to prevent dust and magnetic particles from reaching the diaphragm. A four-stage pop filter shall be provided for maximum reduction of effects of wind and breath blasts.

The microphone shall be a selectable impedance type (high impedance or 150 ohm balanced or unbalanced low impedance). Output level for high impedance shall be -56 dB and EIA sensitivity rating shall be -152 dB (0 dB = 1 volt/dyne/cm²). Output level for low impedance shall be -56 dB, and EIA sensitivity rating shall be -150 dB (0 dB = 1 mW/10 dynes/cm²). A magnetic type on/off switch shall be provided, so designed that the external actuator may be removed without tools leaving the microphone in the "on" mode. The entire switch assembly shall be contained within the microphone case. A 4.6 m (15 ft) two-conductor shielded, vinyl jacketed cable with Switchcraft A3F connector installed at the microphone end shall be provided.

The case shall be diecast zinc. Dimensions shall be 153.2 mm (6.03 inches) long and diameter (major) shall be 35.3 mm (1.39 inches) with 19.1 mm (.75 inch) shank diameter. Net weight, less cable, shall be 170.1 g (6 ounces). Finish shall be satin chrome. Also available as "LC" model (without cable). An Electro-Voice Model 312 stand clamp adapter shall be furnished.

The Electro-Voice Model 631B is specified.

WARRANTY (Limited)

Electro-Voice Commercial/Concert Series Microphones are guaranteed for two years from date of original purchase against 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 or 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 repair information and service locations, please write: Service Dept., Electro-Voice, Inc., 600 Cecil St., Buchanan, Michigan 49107 (Phone: 616/695-6831) or Electro-Voice West, 8234 Doe Ave., P. O. Box 3297, Visalia, CA 93277 (Phone: 209/651-7777).

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

Specifications subject to change without notice.