



Key Features:

- **Touch to Talk**
- **7-foot, 5-Conductor Cable with Bare-Wire Termination**
- **Cardioid, Noise-Cancelling**

General Description:

The Electro-Voice® US622L was designed for communications and paging applications. It is also useful in amateur radio, CB, aeronautical and commercial base station installations.

The US622L is a noise-cancelling dynamic microphone designed for paging, dispatching and call systems in which background noise is high or for reduction of feedback under difficult acoustical conditions. The US622L allows the user to speak closely into the microphone in a normal voice, while background noise is greatly attenuated. The frequency response was designed to ensure excellent intelligibility.

The rugged, diecast stand is carefully balanced for handheld use as a "grip to talk" microphone, yet will remain firmly positioned for "touch to talk" use. The switch assembly will survive many hundreds of thousands of use cycles assuring the ultimate in reliability. The switch assembly may be changed from "touch to talk" to "grip to talk." The switch may be locked in the "on" position for "hands free" operation. There is an adjustment screw that permits the locking feature to be defeated. This control is accessible only when the switch is located in the "touch to talk" position.

Locking Feature

In the "touch to talk" position, the switch is locked in the "on" position by depressing the switch bar and sliding it to the right. If the switch assembly is mounted in the "grip to talk" position, the switch bar should be depressed and slid upwards to lock. To unlock the switch bar, reverse the procedure.

Defeating the Locking Feature

With the switch in the "touch to talk" configuration, the locking feature may be defeated by an adjustment screw located through the access hole in the bottom plate (see Bottom View). Rotating the screw fully clockwise defeats the locking feature. To defeat the switch locking feature in the "grip to talk" configuration, the adjustment must be made prior to moving the switch assembly to the neck location. To restore the locking feature, turn the adjustment screw counterclockwise until locking is now possible.



Technical Specifications:

Generation Element:	Dynamic
Frequency Response:	125 to 5,000 Hz
Polar Pattern:	Cardioid, Noise-Cancelling
Impedance:	150 Ohms
Sensitivity, Open Circuit Voltage @ 1 kHz:	1mV/Pascal
Case Material:	Pressure-Cast Zinc and Cyclocac
Finish:	Black
Switch Type:	Leaf, DPDT, Switches External Circuit and Shorts or Opens Mic in "Off" Position
Cable:	2.13 m (7 ft.) Long, 5-Conductor, 2 Shielded, Vinyl Jacket, Black
Dimension, Height:	246.1 mm (9.69")
Dimension, Width:	114.3 mm (4.50")
Dimension, Depth:	122.2 mm (4.81")
Net Weight:	822 g (1 lb, 13 oz.)

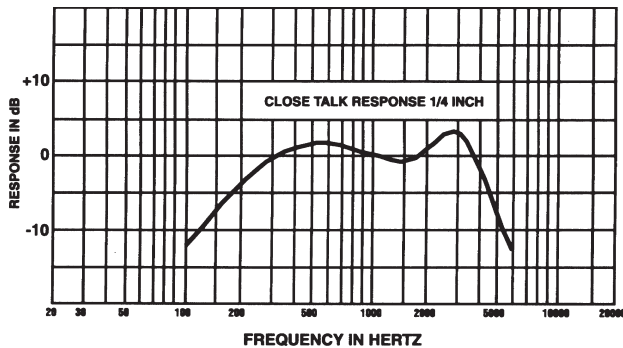
Changing Switch Connections

The US622L is shipped with switch connections as shown in the Wiring Diagram. The microphone has shorted outputs in the "off" position. See Wiring Diagram for complete instructions. The switch assembly is easily accessible for wiring revisions. First, remove the bottom cover plate, then remove the two switch assembly screws to release the assembly for easy access to switch terminals.

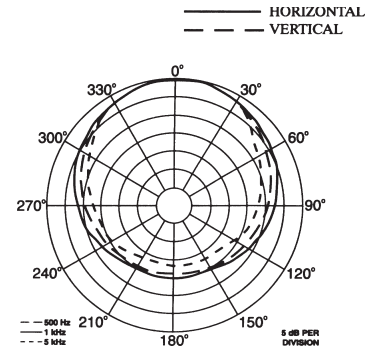
Parallel Operation

If the US622L is to be used in applications such as multiple microphone paging installations (where several units are connected in parallel to a single microphone input), changes must be made as shown in the Wiring Diagram. Cutting the short wire "opens" the microphone output when the switch is in the "off" position; this will allow multiple microphone applications.

Frequency Response:



Polar Response:



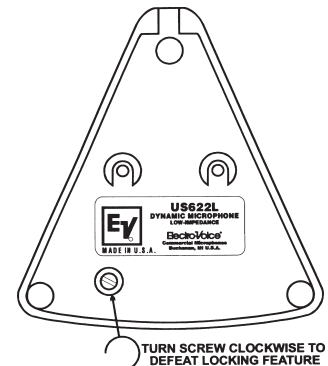
Relocating Switch

The microphone is designed for "touch to talk" or "grip to talk" operation. When received from the factory, the switch is mounted on the base for "touch to talk" use. If desired, the switch may be relocated without wiring changes to the neck of the microphone for "grip to talk" operation.

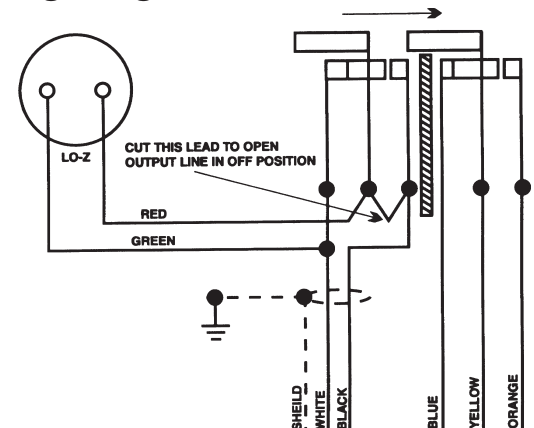
To relocate the switch, proceed as follows:

1. Remove the black plastic cover from the neck of the microphone by gently lifting one end with a flat blade. This will expose the "grip to talk" switch opening. Save the cover, as it will be needed for the opening on the base of the microphone.
2. Remove two screws and the cover plate from the bottom of the microphone.
3. Slip the strain relief spring from slot.
4. Remove the two screws located in the neck of the microphone.
5. Gently lift switch assembly away from microphone housing.
6. Turn the entire switch assembly so the top surface of the switch bar faces the front of the microphone with wires protruding from the bottom of the switch.
7. Secure switch assembly in the neck with the two screws.
8. Check the action of the switch to ensure that all wires are properly seated and have not become entangled in the switch assembly.
9. Loop the cable around the bass located in the housing base and seat the strain relief spring at the rear of the microphone base. Secure the bottom plate with two screws.
10. Place the black plastic cover into the opening on the base (from which the red switch bar was previously removed) by inserting the two tabs into the opening and snapping cover into position.

Bottom View:



Wiring Diagram:



Architects' and Engineers' Specifications

The microphone shall be a noise-cancelling dynamic type with uniform frequency response from 125 - 5,000 Hz. The microphone output impedance shall be specified 150 ohms. The open-circuit output voltage @1kHz shall be 1mV/Pascal. The microphone case shall be of Cyclac and diecast zinc, and shall include a diecast zinc table stand integral with the microphone case. The assembly shall be 246.1 mm (9.69 in.) high x 114.3 mm (4.5 in.) wide x 122.2 mm (4.81 in.) deep. A DPDT switch shall be provided, one section of which shall normally short circuit the transducer when switch is in "off" position. (Provisions shall be made for connecting the normally open mode in "off" position and closing the microphone circuit for "on" position for multiple microphone paging installations.) A second switch section shall be provided with the capability to function either in an electronic switching mode or for operation of external relay. A locking feature shall be provided by means of which switch may be locked in "on" position. A 2.13 m (7 ft) black plastic-jacketed, five conductor, two shielded cable shall be furnished. The finish of the integral stand and microphone shall be nonreflecting black. Net weight shall be 822 g (1 lb, 13 oz). The Electro-Voice commercial microphone US622L is specified.



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Specifications subject to change without notice.