



Installation Instructions

Five-inch Speaker and Mic Assembly

78-6911-1545-1

Introduction

The Speaker and Mic Assembly consists of a five-inch, water-resistant, eight-ohm cone speaker, a special weather-resistant dynamic microphone and a mounting bracket for easy mounting in menu signs, speaker posts and other applications. Use this product where a separate microphone may provide better voice quality than that of a combined speaker/mic.

Specifications

Dimensions See Figure 1 on reverse.

Cable Connections Stripped and tinned wires

Microphone

Sensitivity -71dB ± 3db at 1kHz (0dB = 1V/μBar)

Impedance 500 ohms ± 20% at 1kHz

Operating Temp. -20 to +60°C (-4 to +40°F)

Speaker

Size 5 inches square

Impedance 8 Ohms

Power Capacity 6 watts maximum

Frequency Range 110 Hz to 9 kHz (voice communication)

Sensitivity 91 dB SPL for 1 watt @ 1 meter on axis

Recommended Speaker and Mic Cable

Speaker Use 18-gauge twisted-pair plus shield or unshielded cable.

Microphone Use 18-gauge twisted-pair plus shield cable. Connect the shield to COMMON at the Intracom end only.

WARNING

Do not route speaker or microphone cables through the same conduit with 115 VAC electrical wiring. This violates the National Electrical Code, presents a safety hazard and may cause hum pickup.

Mounting Procedure

1. Mount the speaker and microphone assembly inside the menu sign, communication post, or other cavity so that the speaker and microphone are facing the customer position. When used for automobile communications, the ideal mounting height is 54 inches above the pavement.
2. Use bolts or sheet metal screws to securely fasten the speaker "L" bracket so that the assembly does not move and cause loss of communications.
3. Connect the speaker and microphone wires to the intracom. Solder and insulate all splices. Insulate the shield at the microphone end.
4. Refer to the individual Intracom installation instructions and *make the necessary connections and changes to internal jumpers/switches for the "separate outside microphone" option.*

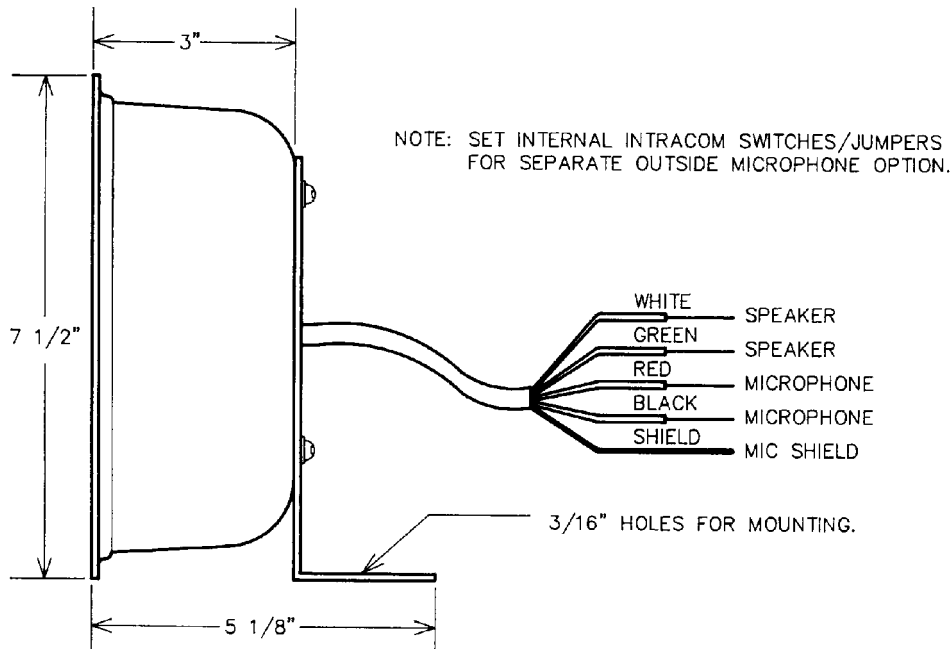


Figure 1. Speaker and Mic Connections and Mounting