



KI-14529

MLS6

PROFESSIONAL TWO-WAY SPEAKER SYSTEM INSTALLATION

RAULAND-BORG CORPORATION • 3450 West Oakton Street, Skokie, Illinois 60076-2951 • (708) 6794900



PRELIMINARY

DESCRIPTION

The Rauland MIS6 Two-Way Speaker System combines professional components of superior quality in a properly balanced, integrated design, to deliver the fidelity of sound and the coverage demanded in sound-reinforcement and music applications.

The MLS6 system utilizes a compact, constant-directivity horn with a high-frequency compression driver, an 800-Hz crossover network, and a high-efficiency, 15-inch, low-frequency driver in a carefully matched tuned-port enclosure.

The Rauland CD198 constant-directivity horn is of durable cast-aluminum construction. It provides closely controlled, smooth 98° horizontal and 58° vertical dispersion. The Rauland SDF100-16 driver provides the highest

degree of reliability with remarkable dynamic-range and power-handling capabilities. The system is outstanding for its ability to handle in excess of 100 watts RMS with undistorted bass response.

The enclosure is ruggedly built. Its 3/4-inch plywood sides have screwed and glued joints, and are durably braced throughout. Its black-charcoal finish can be easily retouched or refinished to meet custom installation requirements. If suspension mounting is required, the optional MK9 Mounting Kit is recommended. The MK9 is a clamp-type mounting frame with anchor bolts to prevent the MIS6 from slipping or shifting within the Game. This kit places the entire MLS6 enclosure in compression without causing excessive shear stress upon the enclosure. The MK9 allows the suspension loads to be carried by steel angle irons, threaded rods, and nuts.

SPECIFICATIONS

Type of System:	Two-way.	Crossover Network:	Rauland 800-Hz fixed-cross-over network.
High-Frequency Horn:	Rauland CD198 constant-directivity horn: <i>Horizontal Dispersion: 98°, Vertical Dispersion: 58°.</i>	Axial Sensitivity:	At 1-watt input 758,000 Hz: 103 dB at 4 feet. 104.5 dB at 1 meter.
High-Frequency Driver:	Rauland SDF100-16 compression driver.	Power-handling Capacity:	100 watts RMS.
Low-Frequency Speaker:	Rauland high-efficiency 15" speaker	Impedance:	Nominal, 8Ω.
Frequency Response:	50-15,000 Hz.	Size:	18.5" W X 13" D X 28.5" H (47 cm X 33 cm X 72.4 cm).
		Net Weight:	60 lbs (27.2 kg).

INSTALLATION

EQUIPMENT DAMAGED IN TRANSIT

This equipment was carefully inspected and tested at the factory. If it has been damaged in transit, notify the transportation company immediately to place your claim.

MOUNTING

The speaker system may be placed in an alcove or similar inconspicuous location. It may also be suspended from a ceiling or structural supporting beam with the optional MK9 Speaker Mounting Kit.

Note: The mounting chain or cable must be supplied locally.

CAUTION

Direct-suspension mounting of the MLS6 is not recommended: this may place undue shear stress upon the enclosure and result in a hazardous installation or an installation that would not comply with local building codes. The optional Model MK9 mounting kit is the recommended method of suspension-mounting the MLS6.

WIRING AND CONNECTIONS

Use two-conductor, twisted-pair wires to connect the speaker system to the output of the audio amplifier. The maximum length for each commonly used wire size is listed in Table 1, above in the next column. Use spade lugs to terminate the wires for connection to the available screw terminals.

FREQUENCY-RESPONSE OPTIONS

A. Speech/Paging Applications: The MLS6 speaker system is shipped from the factory with this setting, which provides a gentle 6db-per-octave rolloff above 2 KHz and

Table 1. Wire Sizes and Maximum Lengths

AWG Size	* Maximum Length (feet)
12	206
14	130
16	80
18	50
20	30

* Length at which the power loss approaches 0.4 dB.

offers maximum sensitivity and articulation. The short white jumper wire is installed on the component side of the crossover PC board, between the double H+ terminal (beneath the larger coil) and the single terminal near the bottom of the board.

B. Music/High Fidelity Applications: To obtain a flatter response for music reproduction, simply remove the short white jumper wire from both terminals on the component side of the crossover PC board. This response option will decrease the apparent sensitivity in the midband frequencies and provide a smoother and wider overall response characteristic.

Accessing the Crossover Board

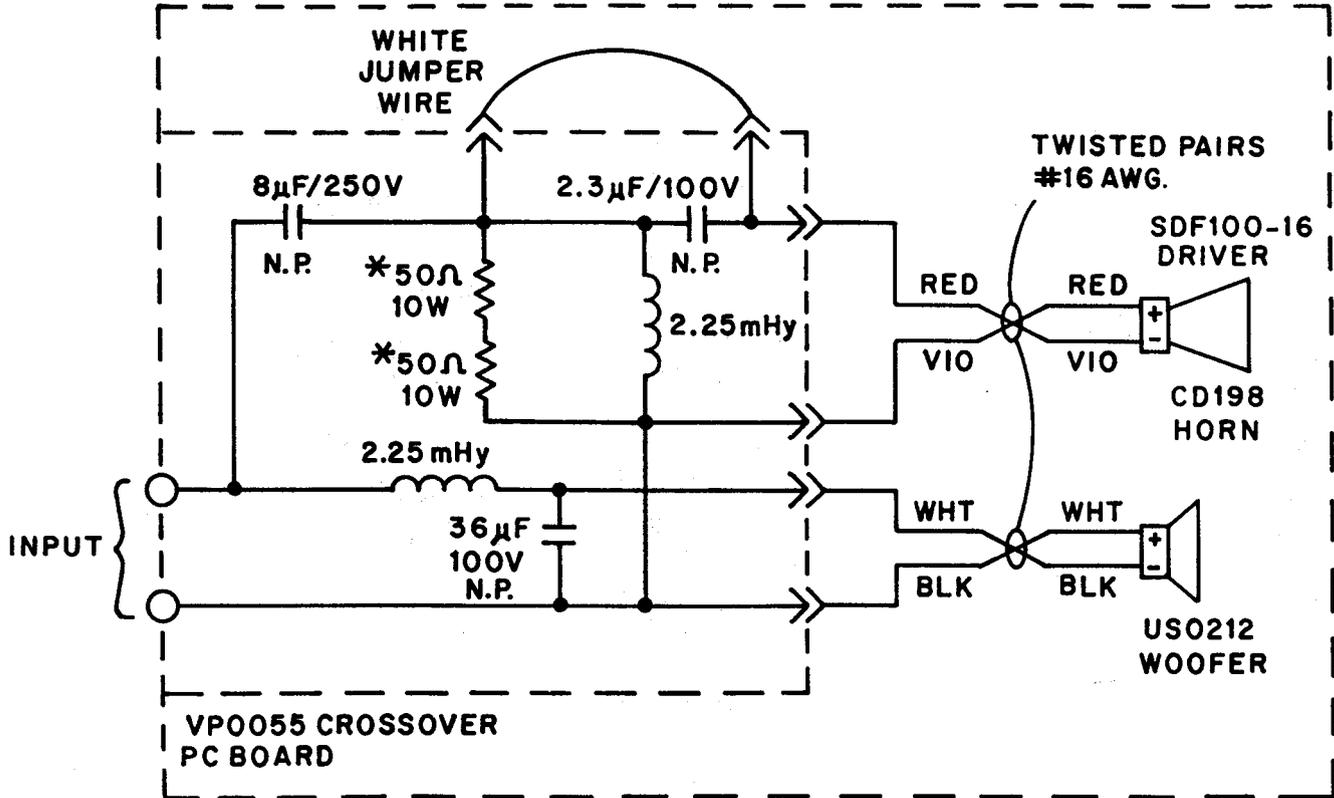
The easiest way to perform this change is to reach into the cabinet through one of the front port openings while looking and shining a light through the other one. For future reference, mark the appropriate box on the label (just below the input screw terminals) to indicate the selected frequency response.

RAULAND SERVICE

The entire Rauland organization is interested in the proper maintenance of your equipment for as long as you own it. Our national network of authorized Rauland distributors is at the service of all purchasers of our products. Should you have a problem with your equipment, or re-

quire any advice or assistance, get in touch with your local Rauland distributor.

Should you be unable to locate a local Rauland distributor, the information or action you want can be obtained by writing to our Sales Engineering Department.



* NOTE: THESE TWO RESISTORS MAY BE REPLACED WITH A SINGLE 100 Ω 10W RESISTOR.

MLS6
KC1483 **B**