CARVIN

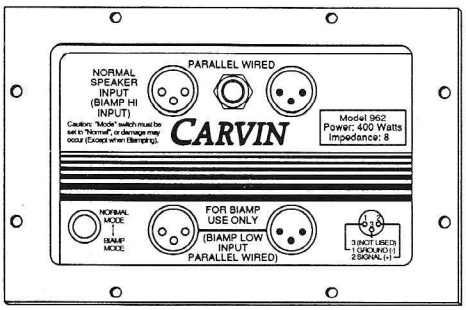
962 Loudspeaker System

High output, excellent full range response and efficient portability make the 962 Loudspeaker our top two-way system. This powerful 400 watt 15" horn loaded speaker system can handle applications ranging from sound reinforcement in larger clubs to open air concerts.

• COMPONENTS

The 962 loudspeaker system features the powerful 400 watt PS15C woofer, providing superb projection and bass response. The C230A crossover links the PS15C with the 100 watt titanium HF1860 horn driver, which handles midrange and high frequencies with equal clarity and projection. Response is smooth out to 18kHz, and the cabinet is solid core wood covered in premium charcoal gray carpet with steel corners, steel mesh grill and a strong recessed handles. If you are looking for top power, response and versatility in a two-way loudspeaker system, you'll have it with the 962.

CARVIN C230A CROSSOVER



• CROSSOVER & CONNECTIONS

Carvin's C230A crossover is designed to provide a highly accurate frequency response when the sound output from the woofer combines with the outputs of the midrange and the tweeter. This advanced crossover makes a difference you can hear, especially at the high sound levels typically used on stage. The C230A is also extremely flexible, allowing you to run the speakers in bi-amp configurations for even greater output.

• NORMAL INPUT CONNECTORS

For NORMAL use, use the XLR or Phone connectors labeled NORMAL SPEAKER INPUT (PARALLEL WIRED). If you are using a 1/4" PHONE connector, you may use any of the XLR connectors (pin 1 ground and pin 2 hot) to parallel to other speaker systems.

• BI-AMP SWITCH

For NORMAL use, the BI-AMP switch located under the "Rubber Cap" should be selected to the UP position—Normal Mode. NOTE: DO NOT switch the BI-AMP switch to the "DOWN" BI-AMP position when a full range signal is connected as this can cause immediate and sever damage. Set the BI-AMP switch to the BI-AMP position only when BI-AMPING! The FACTORY setting is set for the NORMAL mode.

For BI-AMPING, set the BI-AMP switch to the DOWN position and use the appropriate "Electronic Crossover" and "Power Amps". 2500 Hz is a good frequency to set the crossover at.

• BI-AMP INPUT CONNECTORS

For BI-AMPING to the HIGH range speakers (midrange and tweeters), plug the HI frequency amp into the NORMAL INPUT CONNECTORS (BI-AMP HI INPUT)—any of the top three connectors marked PARALLEL WIRED.

To complete the BI-AMP hook-up, connect the LO frequency (bass) amp to any of the bottom XLR connectors labeled FOR BI-AMP USE ONLY (BI-AMP LOW INPUT). Be sure the BI-AMP switch has been switched down to the BI-AMP position.

• PARALLEL WIRING

Both the upper and lower sets of input connectors are PARALLEL wired within their own group. This means you can add more speakers to the cable that runs to your amplifier. Be carefully not to load the amplifier below its rated minimum speaker impedance. (EXAMPLE) If the speaker system is 8 ohms and you plug another 8 ohm speaker system into one of the other connectors, the total impedance to the amp would be 4 ohms—not 8 ohms (4 ohms is the minimum impedance of most amplifiers). **CAUTION: DO NOT drive more than two speakers systems per power amp cable.**

A RUBBER CAP is used over the BI-AMP mode switch (and the 1/4" connector) to prevent noise caused by "air" rushing in and out of the hole when bass notes are played. Be sure to press into the "middle" of the rubber cap to secure it into place.

• SUGGESTIONS FOR OPTIMAL PERFORMANCE

1) Raise the enclosure to the ear level of your audience. 2) Control feedback with a graphic or parametric equalizer. Keep microphones in back of or pointed away from speakers. 3) Placement of any speaker can greatly affect bass output. Place the enclosure close to walls and the floor to increase the bass response. Raise the speaker off the floor and move it away from the walls to reduce the bass. 4) For higher sound levels consider biamping the system. 5) For even higher sound levels add additional enclosures (Parallel speakers will also draw additional power from the power amp but be careful not to load the amp below its rated minimum load impedance).

• PRECAUTIONS

This system will give exceptional performance with years of service, providing the operator does not abuse the system. Please be advised of the following caution areas: 1) **DO NOT EXCEED THE POWER HANDLING CAPACITY**—this could result in damage to the speakers. 2) Do not allow excessive power amp clipping. 3) **KEEP THE SPEAKER AWAY FROM:** water, moisture, dust and intense heat, as such damage to the speakers is not covered under warranty.

• SPEAKER PROTECTION

All Carvin speakers come with a special protection circuit designed to keep the tweeter system virtually free from harm. This circuit attenuates the drive level to the tweeter automatically to maintain safe driving levels. Also, it does so in an essentially inaudible fashion, so you never notice it working. NOTE: This circuit is designed to provide protection to the tweeter, but not the woofer. As a result, care must be taken to stay within the power rating of the system.

• WARRANTY

Carvin loudspeakers are covered by a ONE year limited warranty. Warranty coverage is limited to original manufacturing defects only. **IT DOES NOT COVER:** 1) Opened or burned voice coils. 2) Torn cones caused by improper packing or abuse. 3) Damage from rain, moisture, etc.

• RETURN FOR REPAIR

Any defective speakers/drivers should be removed from the enclosure and returned directly to Carvin. If your speaker(s) have been damaged, there will be a reconing fee. We advise placing the speakers on a 1/4" piece of plywood when returning. DO NOT stuff paper into the speaker as it will damage the cone. Ship PREPAID by UPS. Include your address and a detailed description of the problem. Your speaker will be returned COD for the cost of shipping and reconing.

MODEL 962 LOUDSPEAKER SYSTEM
TECHNICAL SPECIFICATIONS:

Frequency Response:	65 Hz to 18 kHz ±3 dB
Useable Low Frequency Bandwidth:	52 Hz (-10 dB)
Power Handling:	400 watts Continuous Program Power
Recommended Amp:	75 to 600 watts
Sensitivity:	101 dB SPL, 1 Watt @ 1 meter
Coverage Angles:	90° Horizontal, 45° Vertical
Nominal Impedance:	8Ω
Transducer Components:	PS15C, HF1860 titanium driver
Crossover Type:	C230A Constant Voltage Quasi Second Order
Crossover Frequency:	2.5 kHz
Normal Input Connectors:	Two XLR & One 1/4" Phone Connectors
Bi-Amp Input Connections:	Two XLR Connectors
Bi-Amp Support:	YES, Rear Panel Switch and Connectors
Woofer Enclosure Type:	Vented , Computer Optimized, F(b)=50Hz
Enclosure Covering:	Charcoal Gray Carpet
Dimensions:	24"W x 15"D x 31"H
Recommended Cable:	High Current **XP-50** 50' with XLR Connectors

CARVIN
1155 Industrial Ave., Escondido, CA 92029
toll free: (800)854-2235