

**CSX  
CSX-S2  
AND  
CSV**

LOUDSPEAKER SYSTEMS

**O W N E R ' S  
M A N U A L**



PROFESSIONAL LOUDSPEAKERS

**CSX-S2, CSX & CSV SERIES**  
**LOUDSPEAKER SYSTEMS**

**OWNER'S MANUAL**

Note: All CSX products referred to in this manual apply to both CSX products and CSX-S2 products

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## **Welcome to the family of Community!**

You've joined the group of people that have chosen high-quality Community loudspeaker systems and components for over 30 years. We're really glad you did and we'll do our best to make sure you are satisfied!

In order for you to get the most effective use of this product, please take a few minutes to read this manual.

## **Do a quick inspection of the carton and enclosure**

Community uses excellent enclosure materials, components, assembly techniques and quality-control testing to help ensure you'll get the best quality product for the money. The packaging and shipping methods are chosen so the unit arrives in factory-fresh condition to you. It is possible, however, that something can happen to the unit on its journey from the factory to you. Take a little time to carefully inspect the unit. Look for damage to the carton (rips, tears, punctures, crushed corners, etc.) and to the unit itself. If you notice a problem, immediately contact your dealer for assistance.

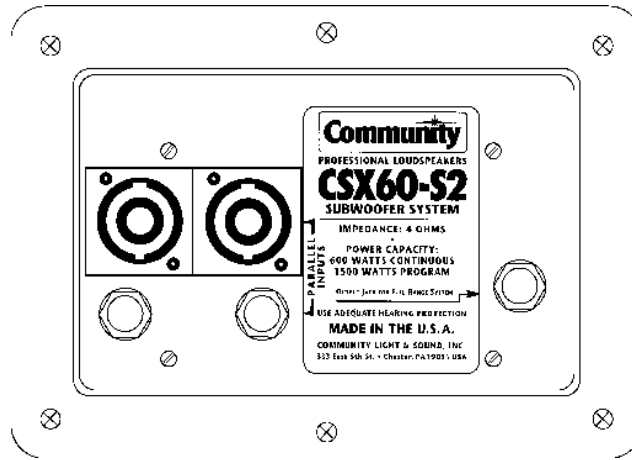
## **Wiring up the speaker to your amplifier**

You need to use proper cable and good quality connectors for speaker wiring. Using guitar cords or zip cord (used for table lamps) may degrade the performance of your loudspeakers. If your speaker cables will be less than 25' long, 16-gauge (1.5 mm<sup>2</sup>) stranded twisted-pair cable will be adequate. If you need longer cables, you should use 14- or 12-gauge (2.5 mm<sup>2</sup> or 4 mm<sup>2</sup>) stranded cable. Rubber-jacketed cable is an excellent choice if you wish to have reliable performance, as this type of cable will survive hard use and remains flexible even if exposed to cold. If you're it is unlikely that people will walk on or heavy objects will be rolled over the cables you may also use cable with a vinyl (PVC) jacket. If you decide to go with the rubber-jacketed cable, ask your supplier for type S, SO, or SJ cable, all of which will be suitable.

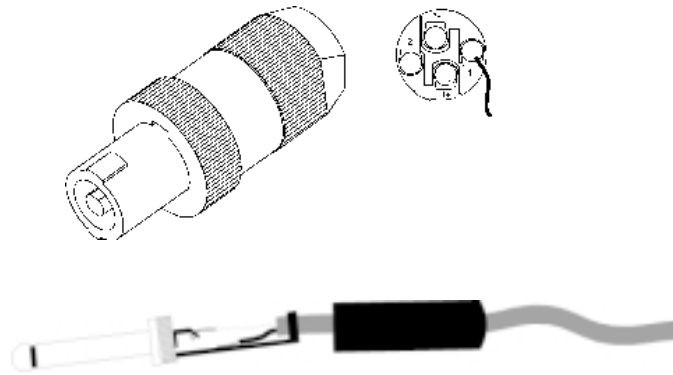
The loudspeaker connection panel is supplied with two 1/4" phone jacks and two Neutrik™ Speakon™ NL4MPR connectors. Neutrik Speakon NL4FC (the mating connector for the Speakon NL4MPR), phone plugs, cable and/or pre-assembled speaker cables are readily available at most Community dealers. Keep in mind that the contact surface of the tip of a phone plug is very small and if the jack or plug gets dirty or the plug is accidentally kicked or hit, the connection may become intermittent.

Speakon connectors were designed specifically for high-power speaker application and therefore have a large contact surface area which is self-cleaning every time they are plugged or unplugged. Speakon connectors also lock together making it virtually impossible for them to accidentally come loose. For added protection, properly-assembled Speakon connectors have a built-in strain relief for the cable. You won't need a soldering iron to connect the cable to the connector - just strip the cable and twist the strands together, then insert into the copper sleeve. Insert the copper sleeve/wire combination into the hole and tighten the screw which clamps down on the copper sleeve. For an even better electrical connection you may choose to solder each connection, but be careful as it is easy to melt the plastic connector.

It's very important to wire your Speakon or phone jack connectors exactly the same at each end of the cable. This is necessary to maintain proper polarity. All quality cables have either color-coded insulation or a very clear way of marking the wires which make up the cable. If the insulation is not color-coded, there may be a rib molded into the side of the jacket material. In the pro sound industry, the black or darker colored insulation material is typically used as the "low" side, which connects to the side of the Speakon connector with the lug marked "1-". For a phone jack, this conductor connects to the "sleeve" or body of the jack. If the cables are wired incorrectly, there will be significantly less low-frequency output from your system.



*Typical CSX/CSV Series Input Panel*



*Neutrik Speakon Connector and  
2-Conductor 1/4" Phone Plug  
(Note position of light colored conductor)*

## What amplifier should you use?

There are several things you should keep in mind when selecting an amplifier.

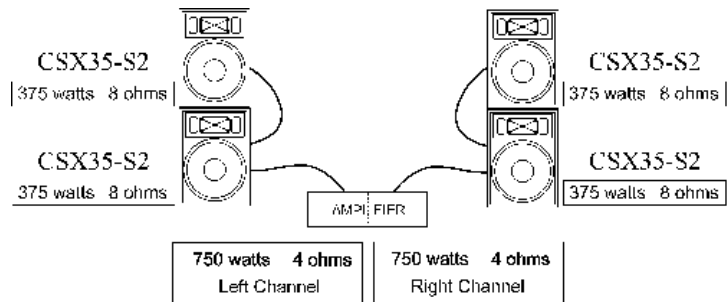
First, you need an amplifier with enough output power. Even if you are not planning to run your system very loud, an amplifier needs to have enough power so that the dynamics of speech and music will not cause “clipping.” A solid-state amplifier that is pushed beyond its output power capability will distort badly (clip signals). Not only does this sound bad, but the effect on a low frequency speaker or mid- or high-frequency driver is similar to hitting the cone or diaphragm with a hammer. Because of this, too small an amplifier can be more damaging to speakers than one that seemingly has too much power. Peaks in speech or music signals can easily exceed the average power levels by a factor of ten. If your amplifier is not big enough, these peaks become clipped and distorted.

The impedance or speaker load the amplifier “sees” is very important. If the amplifier is not rated for the impedance load, the internal protection circuitry of the amplifier may prevent full-power output. Additionally, if the amplifier is not of high-quality or does not have good internal protection against overload, the amplifier may be damaged - or the speakers connected to the amplifier may be damaged.

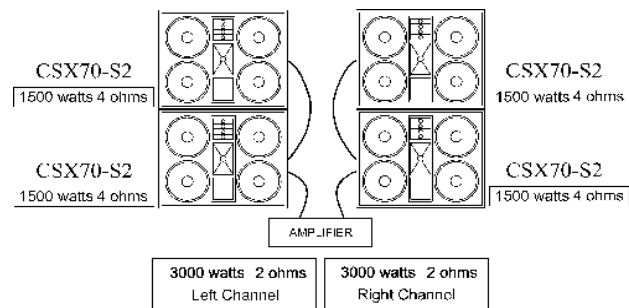
When you connect two speakers together so that both speakers work off one amplifier channel, you are connecting them in parallel. Two speakers connected in parallel do not have the same impedance as one speaker. Knowing the combined impedance is very important when selecting an amplifier. You need to select an amplifier that will operate at the combined impedance and produce enough power for both speakers. Check to make sure the amplifier you wish to use will match this requirement. To figure out how much power you need, just add the program power of the two speakers. The drawing below shows the combined impedance for two 4 ohm and two 8 ohm speakers connected in parallel and their combined power requirements.

Community loudspeaker systems have two specified input power ratings given - one is called “continuous” or “RMS;” the other “program.” These two ratings are given to help you understand the operating capabilities of the system. If you are going to play music which has very little dynamic range (such as synthesizers or heavy-metal guitar) through the system, the “RMS” rating is the one you need to consider. On the other hand, if your material is composed of lots of dynamics (such as vocals, drums, short guitar riffs, etc.) you should use the “program” rating.

All Community CSX/CSV loudspeakers have built-in special protection circuitry: PowerSense™ DDP (Dynamic Driver Protection). This circuitry continuously monitors the operating power levels of all speaker system components and provides



*Two 8 ohm Speakers in Parallel per Channel*



4 ohm Speakers In Parallel

*Two 4 ohm Speakers in Parallel per Channel*

both over-current and thermal protection. A combination of electronic components are used, first to absorb excess power and then ultimately to switch the speaker components to a lower power level. If you put too much power into the speaker system, you'll notice what appears to be lamps flashing on and off inside the speaker (you'll be able to see this through the bass ports). If you continue to apply too much power, you'll hear the sound level reduced by a noticeable amount. You should then reduce the signal level to the speaker system. Within a short time, the circuitry will automatically reset and will return to normal operating capability. Unlike many other protection circuits, there are no fuses or other user-serviceable devices in the crossover circuitry, which makes your Community loudspeaker system one of the least-likely items to let you down.

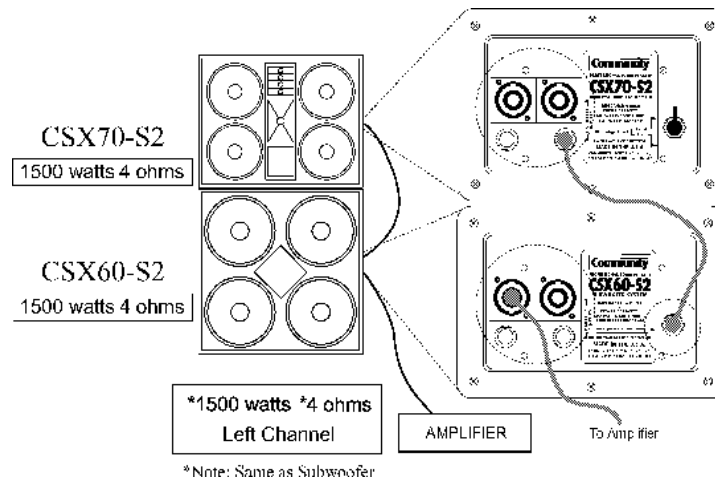
### **Using CSX40, CSX50 and CSX60 subwoofer systems**

While all Community full-range speaker systems have remarkable bass output, there are situations where you may need more as provided by the CSX40, CSX50 and CSX60 subwoofers.

A very special feature of these products is that they have built-in crossovers with high-pass outputs. This means that you may use one channel of your power amplifier to power both a subwoofer and a full-range speaker, while maintaining a reasonable load on your amplifier. The amplifier only sees the subwoofer/crossover load which is 4 ohms for CSX series subwoofers. Without the built-in crossover, the combined impedance of full-range and subwoofer speakers in parallel would be much lower. Many amplifiers are capable of powering very low-impedance loads, but some cannot. This feature neatly addresses that problem. Also, the high-pass crossover output removes the very low bass frequencies from the signal going to the full-range speaker. This prevents distortion (and possible damage) from excessive low-frequency energy getting into the full-range speaker.

When connecting a Community subwoofer to a full range system using the subwoofer's "Output for Fullrange System", the

subwoofer/fullrange system's combined impedance and power handling is equal to the subwoofer's. This is illustrated in the drawing below.



*Subwoofer/Fullrange System Connection and Powering*

### **CSX70 input panel switch**

When using the CSX70 in a quiet room, this switch reduces the mid-frequency output of the system. If the room fills up and gets noisy - and you need to give the mids an extra “kick” - just flip the switch and you’ll have more vocal impact!

### **Stacking or installing the loudspeaker enclosures**

Common sense is a good guide. If you stack speakers, be sure they are on a stable surface. If there is any danger of the speakers being knocked over when stacked, don’t stack them! You need to get the speakers up high enough so that all of the sound doesn’t “blow away” the people nearest to the speakers, but piling speakers on top of a small pedestal table is asking for trouble.

Several models of the CSX speakers have a socket for use with tripod stands. While stands offer convenience, you must be careful they are positioned so that no one can trip over the stand or knock over the loudspeaker.

All Community CSX/CSV loudspeaker enclosures are provided with 5/16"-18 thread "T-Nuts" (captive threaded inserts) in the sides of the enclosures for hanging or mounting. The accessory CSSUPKIT provides two steel straps that attach to these inserts for connecting rigging to the enclosure. The smaller models may be mounted from walls or ceilings by using the accessory WB-1 or WB-8 brackets.

**WARNING:** For your protection, under no circumstances should any loudspeaker be mounted or suspended in a public place unless the mounting method has been approved and certified by a registered Professional Engineer.

### **Loud Sound - Please be careful!**

Community loudspeakers are capable of generating high sound pressure levels. Long exposure to sustained loud sound may cause hearing impairment. In the U.S. there are specific Federal noise exposure guidelines set down by OSHA (Occupational Health and Safety Administration). Certain local sound level restrictions may also apply. If you will be exposed to excessive sound levels when operating your speakers, you should use proper hearing protection devices. Use special care when you or others are very close to the speaker systems, such as during setup or if someone has their ears right up to the speaker.

### **If There's A Problem**

Both Community and your dealer want to be sure you are happy with your new loudspeaker systems.

If there seems to be a problem of any type with the loudspeakers, please contact the dealer where you purchased these products. If you feel the situation cannot be handled by the dealer, please call Community at (610)876-3400 or your country's Community Distributor.

## **Return Shipping Instructions**

The most common reason for returning a product to the factory is that repair is required. The very first step should be to contact the dealer where the unit was purchased. With the support of the dealer you should be able to determine the cause of the problem and obtain the proper replacement or repair part so that a return shipment is not necessary. If this is not possible, contacting your nearest Field Service Station or Distributor for your country should be your next choice. Field repair usually is a much more hassle-free way of taking care of problems. If you are unable to discover the cause of a problem or need the name of your nearest Field Service Station or Distributor, please call Community and discuss the situation with the Service Department.

If you live in the United States and it becomes necessary to ship a product back to Community, do not just pack it up and send it off!

**ALL RETURN SHIPMENTS MUST HAVE A RETURN AUTHORIZATION NUMBER WHICH MUST BE OBTAINED FROM THE COMMUNITY SERVICE DEPARTMENT!**

## **Transferable Warranty (Limited)**

Community products are guaranteed to be free from defects in materials and workmanship for a specified period as noted, by product group, below:

CSX Loudspeaker Systems are covered by this warranty for a period of ten years in the USA, five years worldwide. CSV Loudspeaker Systems, fiberglass components and all mounting kits are covered by this warranty for a period of five years.

Component loudspeakers, compression drivers (not used in Community loudspeaker systems) and electronics are covered by this warranty for a period of two years.

The warranty period is determined by one of the following two methods, whichever is longer:

1. Starting from the date of retail purchase, as noted on the sales receipt from an authorized Community Dealer,

or

2. Starting from the date of manufacture, which is coded in the serial number, if the sales receipt is not available.

This warranty applies to the product; therefore, the remainder of the warranty period will be automatically transferred to any subsequent owner.

This warranty applies only to failure of Community products caused by defects in materials and workmanship during the stated warranty period. It does not apply to products that have been subjected to abuse, accident, modification, improper handling/installation, or repairs made without factory authorization or by anyone other than authorized Community Field Service Stations and Export Distributors. This warranty is void if the serial number has been defaced, altered or removed.

Products covered by this warranty will be repaired or replaced at the option of Community, without charge for materials or labor, provided all the terms of this warranty have been met.

Obtaining Warranty Service: Warranty service may be handled by the factory, factory-authorized Field Service Stations or Export Distributors.

To obtain factory or field warranty service for products purchased in the United States, return the product for inspection to the address below, freight prepaid, in the original packaging. If the original packaging is not available, call or write Community factory service to obtain proper packaging materials or hand carry the product to your nearest Field Service Station.

Factory Service Center:	Field Service Station:
Community Warranty Service 333 East 5th Street Chester, PA. 19013-4511	Call (610) 876-3400 for the nearest Authorized Field Service center.

For factory service, please call (610) 876-3400 for a Return Authorization (R/A) number before shipping.

If you ship your product, be sure to include the following information:

1. Your complete name, daytime phone number, return street address and **return authorization number**.
2. The serial number of the product you are returning and retail sales receipt, if possible.
3. A complete description of the problem(s) you have been experiencing including a brief description of how the equipment is being used and with what type/size of amplifier.

Upon receipt, the service center will determine if the problem is covered under warranty. If covered under this warranty, the product will be repaired or replaced, at Community's option, and returned to you freight prepaid. If the problem is not covered under this warranty, you will be notified of the problem with an estimate of the repair costs.

For warranty service outside the United States, contact your authorized Community Export Distributor.

Consequential and Incidental Damages: Community shall not be liable for any consequential or incidental damages including, without limitation, injury to persons, property or loss of use. Some states do not allow the exclusion or limitations of consequential or incidental damages, so the above limitations and exclusions may not apply to you.

This Community warranty is not extended by the length of time which you are deprived of the use of the new product. Repairs and replacement parts provided under the terms of this warranty shall carry only the remaining portion of the warranty.

Community reserves the right to change the design of any product from time to time without notice and with no obligation to make corresponding changes in products previously manufactured.

This warranty gives you specific legal rights, you may also have other rights that vary from state to state. No action to enforce this warranty shall be started later than ninety days after expiration of the warranty period.

**THIS STATEMENT OF WARRANTY SUPERSEDES ANY OTHERS FOR COMMUNITY PRODUCTS.**

### **\*\*\* CAUTIONS AND WARNINGS \*\*\***

1. Don't let the frenzy of setting up the system get in the way of common sense. If it takes just a bit longer to set up your system because you double-checked your connections, or the way you stacked, mounted, or suspended the speaker systems - so be it. Make it a habit - you won't regret it.
2. Don't stick your head up to the speaker to see if you can hear any background noise or hiss. That is just when someone else will decide to see if the system really can attain an output of 150 dB SPL at 6 inches (your ears)!
3. While sustained feedback can be irritating to a listener, it can spell death to high-frequency diaphragms.
4. If you mount the speaker enclosure on a stand or support, be sure it is sufficiently rigid to support the enclosure. If necessary, use guywires, ropes, braces, or whatever seems appropriate to steady it. Make sure no one can trip over the legs of a stand (or guy wires, etc.) as they walk by. Yes, it has happened.
5. Know how to pick up heavy items (such as speaker enclosures). If you must lift something very heavy by yourself, use your legs and arms to do the lifting - not your back. Better still, get someone to help you.
6. Check the AC power before you hook up the system. It is common to find problems not only in nightclubs, but in churches and schools, too. Use an AC circuit tester which shows that the ground, neutral, and hot wires are connected properly. Then use a voltmeter to ensure that the voltage is correct. You never know who might have installed the receptacles or AC distribution panels, or whether they really knew what they were doing. Check it out! If something is not right, have an electrician fix it.



**333 EAST 5TH ST., CHESTER, PA 19013-4511**  
**TEL (610) 876-3400 • FAX (610) 874-0190**