

STADIUM PRO 1000 & 2000 Series Professional Sound System



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Stadium Pro 1000 & 2000 Series Operating Instructions

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Stadium Pro™ 1000



The Stadium Pro™ 1000 is ideal for a wide variety of outdoor facilities, including football, lacrosse, soccer, softball and track. The permanent installation offers concert quality sound that can be heard above the noise of the crowd. The Stadium Pro 1000 is easy to operate and integrates with Nevco video scoreboards to offer a complete video display, scoring and audio solution to high schools, colleges, universities and other sports venues.

Stadium Pro™ 1000 Components



Speakers (2)



Subwoofer (1)



Control Rack (1)



Pod Mix (1)



Microphone (1)

Stadium Pro™ 2000



The Stadium Pro™ 2000 sound system offers a more powerful option for larger venues. Similar to the Stadium Pro 1000, the Stadium Pro 2000 is an ideal outdoor sound system for a wide variety of facilities, including football, lacrosse, soccer, softball and track. The permanent installation offers concert quality sound that can be heard above the noise of the crowd. The Stadium Pro 2000 is easy to operate and integrates with Nevco video scoreboards to offer a complete video display, scoring and audio solution to high schools, colleges, universities and other sports venues.

Stadium Pro™ 2000 Components



Speakers (4)



Subwoofer (2)



Control Rack (1)



Pod Mix (1)



Microphone (1)

Stadium Pro™ 1000 & 2000 Control Room Package



← Mixer

← Power Sequencer &
Surge Suppressor

← Amplifiers

The Stadium Pro 1000 & Stadium Pro 2000 are built around the same basic components. Both systems house identical components with the exception of one additional amplifier in the Stadium Pro 2000 series system.

The equipment rack houses all of the appropriate equipment required to control and power the scoreboard speaker box. Additional Space has been designed into this rack for accessories such as wireless microphones, CD Players, and iPod Docks.

Note: The control room package for your Stadium Pro sound system ships with electronics installed in the control rack and with locking casters. Casters may be removed to allow for the equipment rack to fit under counter tops.

Stadium Pro™ 1000 & 2000 Announcer Station



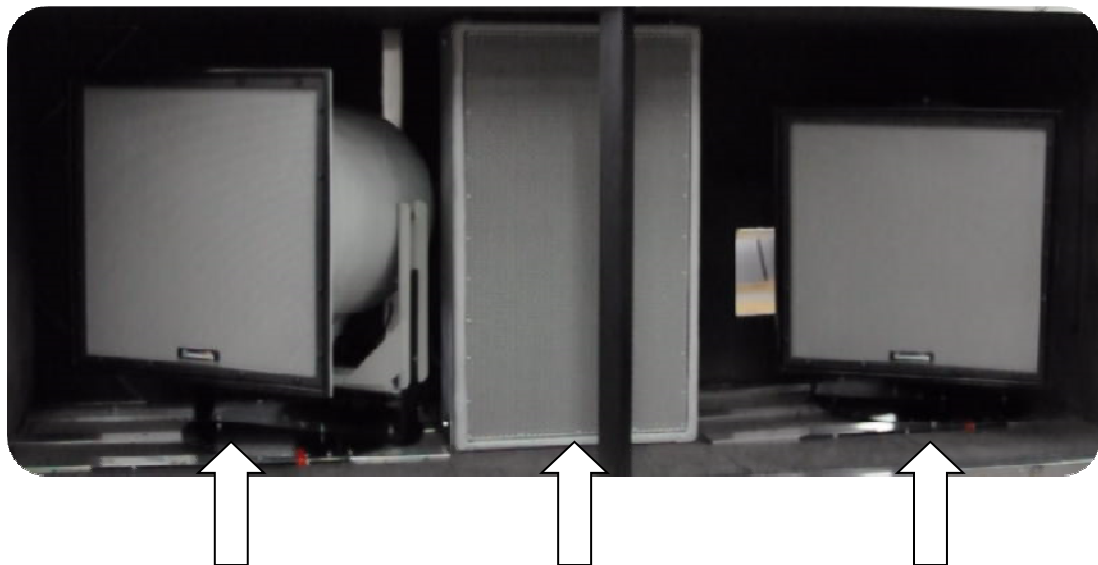
The Stadium Pro 1000 & Stadium Pro 2000 use the same announcer station setup. From the pod mix it is possible to switch the microphone operation on and off as well as mix an external music source, such as an iPod or phone into the system.

The Pod Mix station connects to the control room rack via a balanced 3 Pin XLR microphone cable.

See section 5 for details on connecting the microphone, pod mix, and external music sources.

Note: The pod mix can be extended down to field level for on field control of microphone and external music source, simply by extending the 3 Pin XLR Microphone cable.

Stadium Pro™ 1000 & 2000 Speaker Enclosure Components



Full Range - Loudspeaker

Unit # I

Subwoofer

Unit # II

Full Range - Loudspeaker

Unit # III

I-215LVSN

HIGH POWER, DUAL 15-INCH
WEATHER-RESISTANT TRAPEZOIDAL SUBWOOFER



The I-215LVSN is a weather-resistant high power, trapezoidal, installation subwoofer designed to complement R Series full range loudspeakers. The I-215LVSN is the ideal choice where space enables it to be used without being obtrusive. The I-215LVSN is comprised of dual 15" (380mm) high power Cool-Coil™ low frequency drivers in a front loaded, ported configuration. The rugged grey enclosure is constructed from weather-resistant fiberglass-laminated marine plywood. The enclosure also incorporates 23 load-rated M10 rigging points. Simple and flexible installation is achieved using optional hardware.

R2-52N

DEFINED COVERAGE, WEATHER-RESISTANT, THREE-WAY
LOUDSPEAKER SYSTEM WITH 50° x 20° COVERAGE



The R2-52N full-range loudspeaker system is engineered to provide quality, long throw full-range sound projection in a variety of outdoor and indoor applications. Its wide, smooth frequency response and high efficiency ensures high-fidelity music reproduction along with superb projection of clear, intelligible speech at very low distortion. The R2-52N is an all horn loaded tri-axial design using precision waveguides manufactured with hand-laminated fiberglass. The outer enclosure forms a double wall construction with the internal bass horn, providing a completely weather-sealed chamber for the LF drivers. The mid/high frequency horn assembly is mounted in the mouth of the bass horn. A high quality passive crossover with dynamic driver protection is included. The result is a loudspeaker system that is extremely strong, non-resonant, weather-resistant, and easy to install.

Crown XTi 6002 Power Amplifiers



The Crown XTi Series power amplifiers provide the power output required to drive all of the transducers within the Stadium Pro Speaker Enclosure. These amplifiers boost the incoming signal from the control room mixer and produce speaker level outputs which intern drive the various loudspeakers. Integrated on board digital signal processing allows Nevco the ability to custom tailor the amplifiers output characteristics to maximize the acoustical performance of your Stadium Pro Sound System.

Alesis Multi Mix 12R – Control Room Mixer



The Alesis Multi Mix 12R allows you to mix various microphone and line level inputs into your Stadium Pro sound system. Wireless microphones, compact disc players, iPods, smartphones, and other input devices can connect through this mixer to your stadium pro sound system. Front controls allow the operator to control which of the 12 input sources the audience hears and gives them control over each independent input source.

Furman ASD-120 – Stadium Pro Power Sequencer / Surge Suppressor



The Furman ASD-120 allows you to power up its' six circuits in a sequenced fashion. The sequence is reversed for power down. Power sequencing is needed whenever various kinds of equipment must be powered up or down in groups, rather than all simultaneously. In audio systems, sequenced powering is often necessary to allow turn-on transients from low level amplifiers and processors to settle before any power amps are turned on. Simultaneous powering would result in a loud, annoying, and potentially destructive 'pop' reaching the speakers.

Conduit Runs

The Stadium Pro 1000 and Stadium Pro 2000 series sound systems will require a minimum of (1) one 2" nonmetallic PVC Schedule 40 conduit. This conduit should run between the announcer booth/press box and score board speaker enclosure junction box. This conduit will house the speaker level signal cables required to power the stadium pro transducers.

- It is imperative that these speaker cables are pulled in a dedicated conduit away from high voltage power runs.
- In new installations it is important to maintain efficient conduit runs. Minimizing the overall cable length used between score board and announcer booth will maximize system efficiency and will aid in the installation of the new speaker wire.
- In existing conduit installations special care should be taken to ensure conduit run is free of moisture and standing water before installing the new cabling.
- No additional grounding will be required between the control room equipment rack and the stadium pro speaker enclosure.
- The Stadium Pro 1000 series system will require 3 independent runs of 2 pair 10 gauge speaker wire, Belden Part # 5T00UP
- The Stadium Pro 2000 series system will require 6 independent runs of 2 pair 10 gauge speaker wire, Belden Part # 5T00UP
- **Clearly label each speaker wire pair with the provided wire labels before pulling it through the conduit. Failure to properly identify each speaker wire pair could result in improper terminations and will damage the loudspeakers.**

Power Requirements

- The Stadium Pro 1000 Series sound system will require 2 dedicated 120 Volt, 20 Amp circuits located in the announcer booth / press box or near the control room equipment rack location.
- The Stadium Pro 2000 Series sound system will require 3 dedicated 120 Volt, 20 Amp circuits located in the announcer booth / press box or near the control room equipment rack location. These circuits will require proper grounding per local and national electric codes.
- All Stadium Pro sound systems contain built-in power line surge protection.
- Using ground fault protected circuits to power the stadium pro sound system could cause unexpected fault interrupts.

Structural Requirements

Nevco recommends that you consult a professional engineer or architect familiar with the area before attempting installation. They can verify that the selected mounting laterals and columns, along with the brackets, screws, and other hardware items provided by you or Nevco are adequate for your local soil conditions, wind loads or other conditions. If procedures are used that are not covered in this manual or the provided technical drawings, careful analysis of the installation is urged.

Unpacking the Equipment

- Inspect the shipping container for damage. If any damage can be seen, contact the carrier immediately.
- Unpack speaker enclosure from the crating and inspect for damage.
- Unpack the control room equipment rack from the crating and inspect for damage.
- Carefully remove all equipment from it packing carton.

Focusing the Directional Loudspeakers

- Your Stadium Pro sound system will arrive with the horn style speakers in a shipping position. Simply relocate the 2 (Stadium Pro 1000) or 4 (Stadium Pro 2000) directional loudspeakers from their shipping position to point at the seating for your venue. This is done by removing the 2 mounting clips, and one center pivot bolt from each of the adjustable loudspeakers. Vertical adjustments are rarely needed, but may be made by aligning the holes marked on the rear aluminum loudspeaker support strap. Horizontal focusing is done by first shifting the speaker location to location A if angling sharply to the right or location C if angling sharply to the left. Then simply rotate the speaker into position and lock it down with the bolts. The sticker on the speaker plate also describes the process. Each horn style speaker covers about 50 yards of sideline so a field with 50 yards of seating on both sides should have one speaker pointed to each side. A field with 100 yards of seating should have both speakers pointed to the same side. So on and so forth.
- Minor adjustments may be required once installed to maximize the stadium pro's coverage consistency for your specific venue.
- Once the loudspeakers are properly focused replace and tighten all mounting hardware to lock the loudspeaker into position.

Speaker Enclosure Assembly

- Before mounting the Stadium Pro on your score board structure, it is recommended that you attach the provided scrim retention springs to the front side of the loudspeaker enclosure with the provided mounting screws.

Mounting the Enclosure

Refer to the installation drawings provided by your Nevco representative and available at www.nevco.com for detailed instructions on enclosure mounting

- Once the loudspeakers have been locked into their predefined positions, you can then begin preparations for hoisting and mounting the loudspeaker enclosure to the scoreboard structure.
- Nevco strongly encourages you to check local codes before beginning the installation. You may wish to contact a local architect, contractor, or sign installer for assistance. Your Nevco Sales Representative may be able to assist you in finding professional installers who are familiar with this type of equipment.
- Always use good mechanical practices when mounting the speaker enclosure.

Section 4: Loudspeaker Installation

- Use plated fastening devices to prevent rust or corrosion.
- Lift the speaker enclosure using the provided lifting strut mounted on the top of the stadium pro speaker enclosure.
- Nevco recommends consulting with a qualified rigger before hoisting the stadium pro speaker enclosure.

Installing the Scrim and Trim

- Unroll the mesh scrim and fasten to the hooks at each of the four corners. Once the mesh is attached at each of the corners work your way around the perimeter and attach each individual hook. Once each of the hooks is attached check to confirm the hooks and mesh are tightly in place.
- The final step is to install the finishing trim work. **The top and bottom pieces of trim are different widths. The top trim piece is the narrower of the two long trim pieces.**
- Set the top piece of trim in place and make sure the pre-drilled hole patterns match the mounting holes on the speaker cabinet. Then using a #2 Phillips bit securely fasten using the supplied metal screws.
- Next we will install the bottom piece of trim. Again first line up to make sure all the holes patterns match up then securely fasten using the supplied metal screws.
- Mount the side trim pieces. The side trim pieces mount over the top and bottom trim pieces. **The left and right trim pieces need to be identified. There is a different mounting hole pattern for the left and right sides. Confirm you are installing the correct side piece by ensuring that the hole pattern with the greater number of mounting holes.**
- Once you have confirmed left and right securely fasten the left and right trim pieces using the supplied metal screws.
- Finally refer to the instructions to use the supplied self-tapping screws to secure the side trim to the speaker cabinet.

Speaker Wire Installation

- The Stadium Pro 1000 series system will require 3 independent runs of 2 pair unshielded 10 gauge speaker wire, Belden Part # 5T00UP
- The Stadium Pro 2000 series system will require 6 independent runs of 2 pair unshielded 10 gauge speaker wire, Belden Part # 5T00UP
- **Before pulling speaker wire, clearly label each speaker wire pair with the provided wire labels before pulling it through the conduit. Failure to properly identify each speaker wire pair could result in improper terminations and will damage the loudspeakers.**
- It is imperative that these speaker cables are pulled in a dedicated conduit away from high voltage power runs.
- During wire pull insure that speaker wire insulation is not damaged by sharp conduit or junction box edges.
- Continuous cable runs from control room equipment rack to speaker box is required to maintain the specified system performance. Avoid splicing speaker cables mid run, unless absolutely necessary. Splicing of speaker cables mid-run will result in degraded system performance.

Terminating the Loudspeakers

- Once conduit runs are connected to the speaker enclosure junction box and speaker wire is installed in conduit, you are ready to begin wire terminations at the speaker enclosure junction box. The Stadium Pro 1000 will have 6 total wires to connect to the 3 different transducer groups. Simply match each of the wire pairs to the corresponding labels on each speaker input lead, and terminate. The Stadium pro 2000 will have 12 total wires to connect to the 3 different transducer groups. Short jumpers will be required to connect the 2 independent junction boxes in the 2000 series system.
 1. Cut, strip and twist each wire pair to prepare speaker wire for basic wire nut type terminations. **Take care to maintain existing wire label scheme to prevent improper terminations.**
 2. After cutting, re-label and match each wire pair with the appropriate transducer group and then twist and terminate with the provided wire nuts.
 3. Once wire terminations are complete and wire labels have been applied to all terminated wires, carefully tuck terminations into junction box and close and secure junction box cover.

Terminating Speaker Connector Wall Plates

Stadium Pro 1000

The speaker connector wall plate should be installed in the same room as the control room equipment rack. A 4" Square junction box with single gang drywall trim ring will need to be installed within 10' of the desired control room rack location.

1. Once wires are pulled to the junction box location, cut and re label wire pairs. Strip each wire pair and prepare wires for basic wire nut termination.
2. Using the provided wire nuts match and terminate each wire pair on the wall plate to the wires going to the speaker enclosure.
3. Carefully tuck terminations into junction box and secure wall plate connector with the provided 6-32 screws.

Stadium Pro 2000

The speaker connector wall plates should be installed in the same room as the control room equipment rack. Two 4" Square junction boxes with single gang drywall trim rings will need to be installed within 10' of the desired control room rack location.

1. Once wires are pulled to the junction box locations, cut and re label wire pairs. Strip each wire pair and prepare wires for basic wire nut termination.
2. Using the provided wire nuts match and terminate each wire pair on the wall plates to the wires going to the speaker enclosure.
3. Carefully tuck terminations into junction boxes and secure wall plate connectors with the provided 6-32 screws.

Control Room Equipment Setup

Once the wire terminations are complete, and wall plates are installed, you are now ready to begin connecting the control room equipment to the speaker enclosure, and the microphone and pod mix to the control room rack.

1. Connect the 2 (Stadium Pro 1000) or 3 (Stadium Pro 2000) power input pigtails to the appropriate dedicated 120V, 20A power outlets.
2. Connect the 1 (Stadium Pro 1000) or 2 (Stadium Pro 2000) keyed speaker output connectors to the speaker input wall plates.
3. Unpack Microphone and assemble the provided desktop microphone stand.
4. Connect the microphone to the pod mix announcer station with the provided 25' 3 Pin XLR microphone cable.
5. The supplied RCA to 1/8" IPod / Accessory cable can also be connected to the back side of the pod mix.
6. Then, connect the pod mix to one of the microphone input jacks on the back side of the rack mounted control room mixer with the provided 25' 3 pin XLR microphone cable.

Note 1: The control room equipment rack should be at least 6" away from walls to maintain proper ventilation. In hot environments the rear door of the equipment rack may be removed to help further vent heat from the back of the equipment enclosure.

Note 2: Do not block the air intakes on the front of the amplifiers mounted in the bottom of the control room equipment rack. Reduced airflow will cause the amplifiers to overheat and can eventually cause system failure.

Note 3: It is recommended that you leave the front door of the control room equipment rack open or removed during normal operation to facilitate proper air-flow and equipment cooling

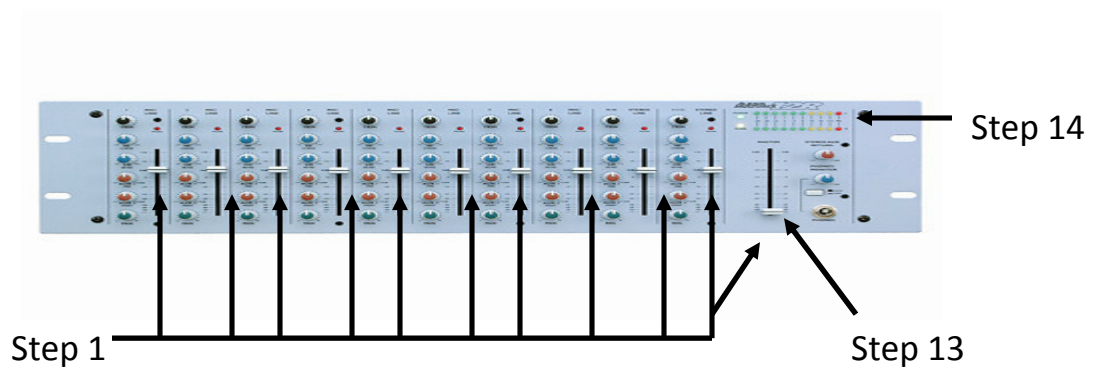
Testing Loudspeaker Connections

Before starting up your new Stadium Pro sound system, it is imperative to confirm that each speaker transducer is receiving the proper signal from each amplifier. If speaker wire terminations are done improperly, transducers could receive the wrong signals and damage to the loudspeaker system could result. Follow the steps below to confirm proper connections before sending loud program material through the system.

Control Room Equipment Startup

(See below for location on equipment for each step)

1. Make sure all 11 faders on the rack mount control room mixer are set to their lowest level.
2. Confirm that all volume knobs on the amplifier are fully turned counter clockwise to their lowest position
3. Confirm that all 3 power input indicator lights are illuminated on the power sequencer.
4. On the power sequencer, turn the key switch counter clockwise to the "ON" position
5. Wait while sequencer starts energizing 6 separate circuits (Note that the sequence indicator lights will start illuminating)
6. Confirm LED Power indicator lights are illuminated on mixer, amplifier, and other auxiliary equipment.
7. Connect phone or media player to the pod mix line input.
8. Set the pod mix line input volume control to 3:00 and turn "ON" the line input
9. Ensure the Microphone switch on the pod mix is in the "OFF" Position.
10. Select and play a music track from your phone or external media device that you are familiar with. (It is important to pick music track that will represent the full range of the audio spectrum. Pop songs, or something with a drum kit work well and usually represent the full audio spectrum)
11. Make sure your phone or media players volume is set to at least 3/4 to full volume output.
12. Turn up the pod mix input fader on the control room mixer.
13. Set the Master fader to the 0db position (top most position)
14. You should now see the left / right signal indicator LED's indicating signal.
15. Adjust the pod mix input trim knob until the main LED signal indicators are hovering in the 0db range.



At this point you are ready to begin sending a small amount of signal to the loudspeakers. In order to prevent damage to the loudspeakers it is best to use two people to perform this test. One person should remain in the control room and the other in front of the loudspeaker enclosure. Two way radios or cell phones will help with communication during this initial startup test.

16. Identify the subwoofer amplifier and slowly turn up the CH 1 volume dial 2 or 3 clicks only.

The person listening to the speaker enclosure should hear the lower octaves of kick drums, bass guitars, and or low rumbling coming from the center speaker in the speaker enclosure. If you are not hearing any bass sounds from the center mounted subwoofer, turn down the amplifier volume control and contact Nevco technical support for further instruction.

Note: If the source music track does not have any bass frequencies, this test will be ineffective.

17. Turn the subwoofer volume control back down and then move on to the full range amp identified as R2 - SP1000 or SP2000.

Note: The Stadium Pro 2000 Series will have an additional amp and 2 additional full range loudspeakers. Repeat this test for the additional amplifiers and loudspeakers to ensure proper operation of all loudspeakers in your system.

18. Turn the CH 1 volume knob up two or three clicks, and confirm that both full range loudspeakers are functioning.

The person listening to the loudspeakers should hear a full range sound coming from both of the full range speakers. If the sound in any way sounds muffled, turn down the amplifier volume control and contact Nevco technical support for further instruction.

Sending Signal to the Loudspeakers

Once you have confirmed proper operation of the subwoofer and the full range loudspeakers, you are now ready to perform a system test at normal operating levels.

1. Turn down the line input volume knob on the pod mix announcer station.
2. Now slowly start to turn up all 4 of the volume knobs on the amplifiers. The volume knobs should be turned all the way clockwise to their fully open position.
3. With your music track still playing, slowly start to turn up the line input volume knob on the pod mix announcer interface station.
4. Listen to your Stadium Pro sound system at a moderate level to insure all components are operating properly and sound appropriate.

Powering up the System – Normal Operation

- Ensure **ALL** faders on the control room mixer are turned down.
- Turn the power sequencer power key counterclockwise to the "ON" position.
- Wait 30 - 40 seconds for system to power up.

System Operation

- Slowly adjust master fader to the 0db mark (Top most position)
- On the Announcer station pod mix set the microphone switch to the “ON” Position.
- While talking into the microphone slowly begin to turn up the pod mix input fader to the 0db mark. (Typically Channel 8)
- On the Control Room Mixer adjust the trim knob of the pod mix input to the desired microphone level.
- Connect an external media player or smartphone to the announcer stations line input.
- Ensure that the line input volume knob on the pod mix is turned counter clockwise to its lowest position.
- Switch the line input switch on the pod mix to the “ON” position.
- Slowly turn line input volume knob up until your music is at the desired level.

Powering Down the System

- Insure **ALL** faders on the control room mixer are turned down.
- Turn the power sequencer power key clockwise to the "OFF" position.
- Wait 30 - 40 seconds for system to power down.

Storing the System (Off Season)

- In the off season, or at any time between system usage, the control room equipment rack power pigtailed, and speaker output cables can be disconnected from the wall to provide additional lightning protection for your Stadium Pro System. Simply reconnect them before your next use.

Cleaning the Control Room Rack

- It is important to minimize dust build up in and around the control room equipment rack.
- Care should be taken to dust the inside and outside of the control room rack.
- Semiannually it is recommended that you vacuum the inside of the equipment rack and any venting on equipment within the control room rack.
- Avoid using pressurized air to blow dust from components.

Cleaning the Speaker Box

- The stadium pro series speaker enclosure should be inspected and cleaned annually.
- Remove the surrounding trim and scrim material from the speaker enclosure.
- Using a hose wash any standing debris from within the scrim material.
- Inspect the interior of the speaker enclosure for any signs of dirt or foreign debris.

Cleaning the Speaker Scrim

- Simply rinse the scrim material from the inside out with a garden hose.
- Visually inspect the scrim material and grommets for any signs of wear.
- See Section 4 for scrim and trim installation and removal instructions

Annual System Testing & Inspection

Nevco recommends performing a simple annual test of your stadium pro sound system at the start of each season to ensure all components are operating properly. Testing should be performed annually along with system maintenance. Simply play an audio track that you are familiar with through the sound system and listen to each individual loudspeaker up close. Ensure that you hear a well-rounded full range sound with crystal clear high frequency and well defined bass.

Note: Hearing damage can occur while listening to your stadium pro system at high SPL levels close-range.

Note: Speaker enclosure rattles may be present while listening to high SPL content at close-range.

Section 9: System Troubleshooting

Troubleshooting

Problem	Solution
No sound.	Check all cabling and connections. Check power source. Power system off and on after one minute. Check that all components have powered on correctly and are responding. Check speaker cabling is properly connected in control room and at speaker cabinet.
Sound from speakers “does not sound right”.	Check all cabling and connections. Power system off and on after one minute. Perform testing described in Section 6 – “Control Room Equipment Startup”

**If the problem persists please contact the Nevco Service Department at
800-851-4040.**

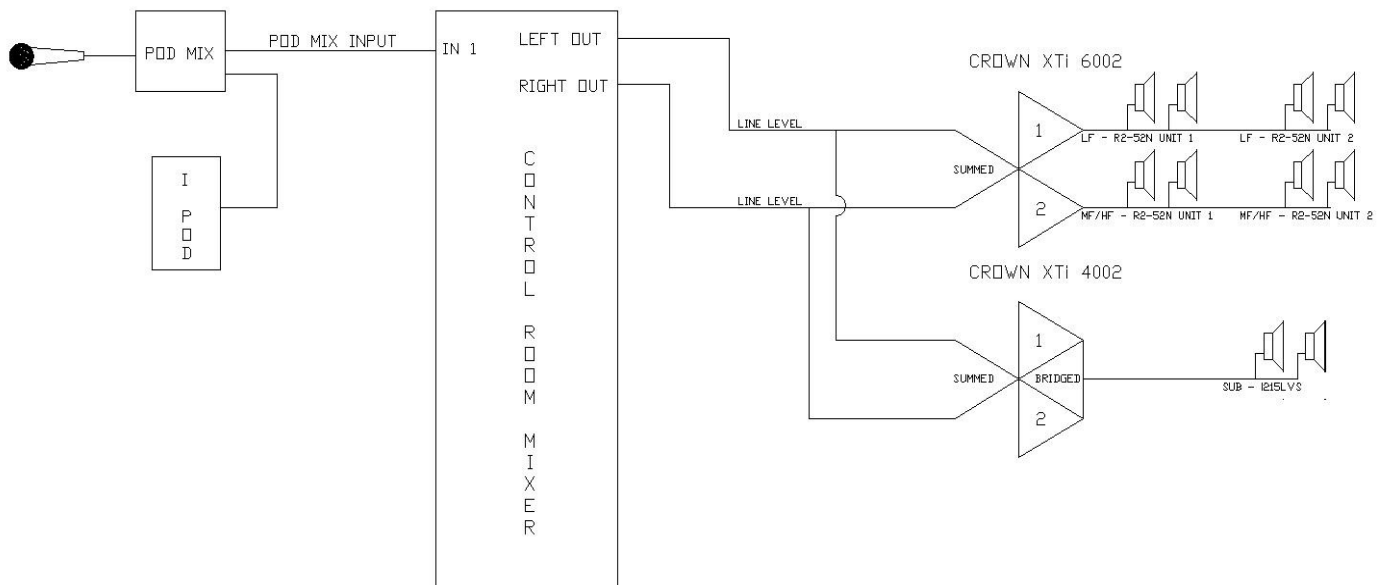
Stadium Pro Sound 1000 and 2000 Series Replacement Parts

For replacement parts please contact the Nevco service department at:

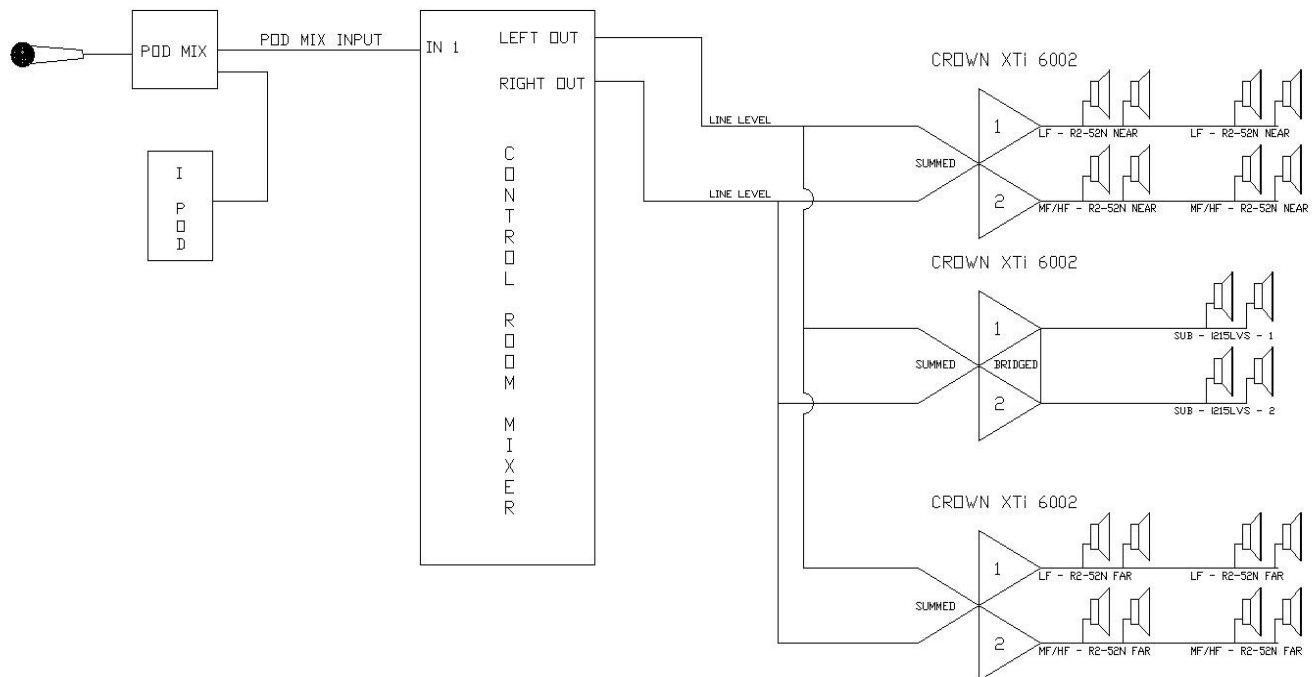
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Stadium Pro Sound 1000 Series Schematics



Stadium Pro Sound 2000 Series Schematics



Nevco Guarantee

Nevco, Inc. scoreboards, marquees, message centers, Stadium Pro loudspeaker enclosures and video boards are guaranteed for a period of five (5) years* from the date of invoice against defects in workmanship or material and will be replaced or repaired without cost to the owner provided the equipment or parts (which includes LED segments) are returned postage-paid to the Nevco, Inc. factory. Shipping back to the owner will be surface postage prepaid except if air or special method of return is specified, then shipping will be freight collect. Nevco, Inc. will pay no charges for time or materials used by others in making repairs or corrections. Guarantee shall be void if: any alteration or service, other than unplugging modules or controls, is performed without Nevco, Inc. factory authorization; or if the equipment has been connected to incorrect power, or is improperly grounded or improperly installed. Equipment which is subjected to accident, neglect, abuse, misuse or other natural disasters, including but not limited to: fire, wind, lightning, flood is not covered by this guarantee.

Note: Please refer to Warranty and Limitation page on the Nevco website at www.nevco.com for Warranty information and claims.