

# *Sapphire*

Reference Monitor

## Owner's Manual

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***Audio Concepts, Inc.***

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Sound that Satisfies...

## *Audio Concepts, Inc.*

### Our Guarantee and Warranty

#### **Satisfaction Guaranteed:**

We're sure you're going to love your new Audio Concepts, Inc. (ACI) products! In the unlikely event that you are not satisfied, please contact us within **30 days** of receipt of your ACI products for a hassle-free return.

Simply follow these procedures:

1. **Return Authorization:** Call us at (608) 784-4570 or email [service@audioc.com](mailto:service@audioc.com), within 30 days of receipt of your ACI products for a return authorization number. Boldly mark the return authorization number on the outside of the box. Include a brief note stating your name, address and daytime telephone number, along with a short description why the products are being returned.
2. **Returning:** We request that you return the ACI products to us in their original packaging and include packaging materials, manuals, etc. Ship by the most economical means (preferably UPS) and insure the products for the invoice purchase price. The customer is responsible for return shipping. *Please note: ACI can not accept C.O.D. returns.*
3. **Credit:** Upon receipt and inspection, we will issue a refund for the invoice purchase price and invoiced UPS Ground service only. Please note this return policy is in effect only if the ACI products are in new condition, in their original packaging, without drilled holes, disassembled or any other modifications.

#### **Speaker Manufacture's Warranty:**

ACI's Five Year Standard Warranty and One Year Total Assurance Guarantee

For **five years** from receipt, Audio Concepts, Inc. will, at its option, repair or replace factory defective components. This warranty excludes products that have been abused, modified, or disassembled in any way. This warranty does not apply to products, which have been damaged in shipping. Audio Concepts, Inc. liability is limited only to the replacement of defective parts. No other liabilities or obligations are expressed or implied.

For the **first year** of ownership, ACI also provides a unique Total Assurance Guarantee, (TAG). TAG from ACI not only covers everything included in our standard five year warranty, but we will also pay for shipping to ACI and back to your front door. TAG is limited to shipping destinations in the Continental U.S.

The ACI Five Year Standard Warranty and One Year Total Assurance Guarantee are fully transferable from the original owner to a secondary owner provided that the original owner notifies ACI, by phone call or by filling out the on-line form: [www.audioc.com](http://www.audioc.com)  
No warranty will be transferred absent this notification.

Simply follow these procedures:

1. **Return Authorization:** Call us at (608) 784-4570 or email [service@audioc.com](mailto:service@audioc.com) for a return authorization number. If the warranty repair is during the first year of ownership, additional instructions will be given to you at that time. Boldly mark the return authorization number on the outside of the box. Include a brief note with your name, address and a daytime telephone number, along with a short description why the products are being returned.
2. **Returning:** Carefully repack defective ACI merchandise in their original packaging. Ship by the most economical means (preferably UPS) and insure the products for their full retail value. The customer is responsible for return shipping (unless the first year TAG applies). Please note: ACI can not accept COD or Freight Collect returns.
3. **Replacement:** Audio Concepts, Inc. will inspect and determine the cause of failure and will pay return shipping on the defective goods replaced or repaired.

Please ship any returns to the following address:  
**Audio Concepts, Inc., 901 So. 4<sup>th</sup> Street, La Crosse, WI 54601 (608) 784-4570**

## IMPORTANT NOTICE

All new speakers require a minimum of 60 hours break-in-time before they sound the way they are supposed to. A speaker's performance improves significantly once broken in. It is critical that you have at least 60 hours on your speakers before you evaluate them. Don't worry if your speakers do not sound perfect the first time you play them. This is normal until they are broken in. If you are having difficulty getting enough hours on your speakers and your 30 day return privilege is getting near, call us. We will work with you. Please give us the courtesy of breaking the speakers in before you determine they don't sound right.

Many of our customers break their speakers in by:

- A) Leaving them on at moderate listening levels when they are not home.
- B) Leaving them on at moderate listening levels while they sleep.
- C) Running pink noise through them.

These methods are not convenient for everyone and we understand this. But please know that you are not giving yourself, your speakers or us a fair chance if you do not break them in before critical evaluation.

## THANK YOU!

## *The Sapphire*

Thank you for your order and congratulations on becoming the owner of an ACI speaker system. These fine speakers will provide you with many years of listening pleasure!

ACI speakers are designed to be the most cost-effective systems available. Read the reviews. The Sapphire series has the reputation of being the best value, stand-mounted monitors that money can buy and has been frequently compared to the most expensive high-end monitors. By purchasing directly from the factory you eliminate costly markups. You will find that your Sapphires will compare favorably with systems costing *far* more!

We'll put the Sapphire against any speaker in the world for overall balance and musicality. The Sapphire has phenomenal detail and resolution yet it does not have the somewhat harsh quality that many detailed sounding speakers have. It is extremely coherent from top to bottom and the dynamic range of this newest Sapphire has been significantly improved from its predecessors.

The bass response of this newest Sapphire is truly amazing. The response is tight, deep and tuneful. Those who wish to have a truly full-range system may want to add either the Force, Titan or Maestro powered subwoofer(s). These subwoofers are adjustable for a perfect match with the Sapphires. The addition of one of these subwoofers allows for the accurate reproduction of the lowest musical tones and increases the output capability of the system.

The Sapphire is the result of ongoing research and development by the ACI design team.

## *Specifications*

**Frequency response:** 42-20kHz  $\pm$ 3db anechoic, 60-18Khz  $\pm$ 1.8db (usable in-room bass response extends cleanly to 36-40Hz)

**Nominal impedance:** 8 ohms, minimum impedance 5.8 ohms, low reactance

**Sensitivity:** 86db 1 watt/1 meter

**Bass-loading:** 4<sup>th</sup> order, low Q, front ported system

**Recommended RMS Power:** 20 to 200 watts per channel

**Tweeter:** 1" hand-damped silk dome with aperiodic rear chamber, cast faceplate and ferro-fluid

**Bass-mid:** 7" cast-frame with wood fiber cone, rubber surround; long throw, low distortion motor system with vented pole piece

**Cabinet:** MDF Construction: 1" Front Panel, 3/4" Top, Bottom and Rear. Multiple density sides include 3/4" MDF with added 3/4" solid hardwood sides. Internally damped with Dacron and acoustic foam.

**Finishes:** Hardwood sides available in clear lacquer on oak, black oak, cherry, maple, walnut and rose walnut finishes

**Inputs:** Gold plated binding posts

**Dimensions:** 17" tall, 9 1/2" wide, 14 1/2" deep

**Weight:** 35 lbs each

**Recommended accessories:** Atlantis or Sanus Systems stands, Force, Titan or Maestro Powered Subwoofers, DH Labs Cables.

## *Design Philosophy for the Sapphire*

Modern speaker design is a combination of science, art and sweat. A successful design such as the Sapphire requires thousands of hours utilizing computer modeling, several generations of prototypes, precision testing, critical listening and many "fine tunings".

Our design goals for the Sapphire were to produce a mid-size, attractive speaker with smooth, uncolored, wide-range response, holographic stereo imaging, good sensitivity, high power handling, and

long term enjoyability. This Sapphire is the most advanced model of a speaker family first produced in 1988. The Sapphire had to be a true “monitor” with nearly full-range response that could be optionally used with subwoofers. And, as an ACI product it had to sell for far less than the state-of-the-art monitors it would compete with. We are pleased to have achieved and in some areas exceeded our goals by systematically engineering and refining the Sapphire to optimize performance. Please note the following factors:

**Frequency Response:**

For a speaker to be considered “accurate” it must have a smooth frequency response that is free of major dips, peaks, troughs or plateaus. The Sapphires exhibit exceptionally flat response throughout the range from below 42Hz to 20kHz. In fact, from 60-18Khz the variance is less than 1.8db!The cast-frame woofer provides excellent bass performance at all but subwoofer frequencies.

Of nearly equal importance is the off-axis response of the speaker. This response from 15 to 45 degrees off the axis of the speaker determines the smoothness of the early reflections from the wall surfaces. In most domestic listening situations this energy is nearly equal to the on-axis response in determining the balance of the system. The off-axis response should show a gradual decrease in output with increased frequency but should not show major dips or peaks which will color the overall sound. Again, the Sapphire gives an exemplary off-axis dispersion pattern.

Tight quality control procedures are necessary to assure that *your* Sapphires sound every bit as good as our lab samples. Incoming shipments of raw parts including cabinet materials, drivers and crossover components are subject to extensive testing to verify that they meet our exacting standards. Precise quality control is critical for the best stereo imaging. Drivers are selected to closely match the standard, and crossover components are hand selected to better than 1% tolerance.

**Dynamic range:**

Dynamic range in a speaker requires;

- Adequate sensitivity so that it may be driven to realistic levels with available amplification. The C-weighted sensitivity for the Sapphire is 86db. This is a very reasonable rating considering the size and bass response of this speaker.
- An easy load for the amplifier. A speaker can have a high sensitivity number but may present a difficult load for the driving amplifier. The Sapphire has a nominal impedance of 8 ohms. The minimum impedance is 5.8 ohms and the maximum impedance is 20 ohms. Some speakers have wildly varying impedance phase curves that can cause problems for amplifiers. The phase of the Sapphires impedance helps make the Sapphire an easy load for any amplifier.
- Low distortion drive units are necessary to keep the music from becoming edgy or gritty as the volume is turned up. The drive units used in the Sapphire have very linear suspensions, which reduce distortion components to inaudible levels and contribute to the excellent sense of “clarity”. The crossover used keeps low frequencies out of the tweeter and protects it from over-exursion at resonance, which would otherwise cause increased distortion.

Good power handling is a requirement if musical peaks are to be reproduced cleanly and without damage to the speaker. The drive units in the Sapphire are extremely rugged and will cleanly reproduce the dynamics of live music.

**Delayed Resonance Control:**

The ultimate control of delayed resonance required extensive use of Cumulative Spectral Decay analysis coupled with accelerometer testing of the cabinet wall surfaces. This extensive testing allowed us to develop the most cost-effective internal bracing to create the vault like solidity of the Sapphire. The entire cabinet is formed of an incredibly inert and well-damped medium density fiberboard (MDF) specified at 49.3 pounds per cubic foot density, with solid hardwood panels added over the MDF cabinet. Be careful when lifting your Sapphires, they're heavy! All drive units were designed with effective resonance control in mind.

*We've attempted to show you some of the important design considerations that go into the Sapphire system. To fully document the design process would require many hundreds of pages. We haven't even discussed the extremely high level of quality control that must be exercised in the drivers, crossovers and enclosure to maintain the design standards. But the most important point is that the Sapphires are designed and built by and for music lovers. You must hear the Sapphire system reproduce your favorite music over a period of time to appreciate how fine these speakers are.*

## *Using Your Speakers*

If the rest of your system does not work properly or is not correctly connected you will not get the best performance from your system. To eliminate problems we recommend the following:

- I. Use the finest associated components you can afford. Turntable, cartridges, pre-amps, amplifiers, (receivers) and cables all have profound impact on the sound of your system. Accurate speakers let more detail through. You will hear more of the beauty of the music, but flaws in your system and or source material may be more obvious.

Any good audio system is made up of matched components. You wouldn't use bargain recap tires on a new Porsche, and you shouldn't use inferior components with a high quality speaker. Your Sapphires perform like speakers costing two to four times their price. Keep this in mind when selecting the rest of your system.

Your Sapphires will work in systems with as little as 20 watts per channel. But for optimum sound we recommend high-quality amplification of 50 - 200 watts per channel.

- II. Know your source material. People often blame their audio gear for poor recordings. A great number of popular recordings are of inferior sound quality. Unfortunately this applies to records, tapes and CDs. Commonly poor recordings are rolled off in the low bass, and harsh and constricted in the mids and highs. Good stereo image is rare. Many recordings are still done on old studio monitor speakers that are grossly inaccurate. Consider that some producers still mix recordings to sound best on cheap table and car radios! This doesn't mean you can't enjoy these recordings, but you should try a few of the best audiophile recordings just to see how terrific your system can be when fed a good signal.
- III. Work at getting the best placement of your speakers in their environment. It is not unusual to be able to get a 25 to 50 percent improvement in sound by careful placement of speakers and furniture. It may not be practical to go all out, but the more you can "tune" your room, the better your system will sound. Refer to the section on placement and room treatment later in this section.

## *Avoiding Damage*

ACI speakers are designed for the purpose of accurate reproduction of music in the home. We do our best to make our speakers rugged and reliable. However, ANY speaker or system may be damaged under certain conditions:

- Excessive power, particularly at certain frequencies or for prolonged periods of time
- Excessive distortion often caused by under-powered amplifiers or receivers
- Defective amplification
- Excessive subsonic energy

Our systems are tested at high volume levels with a variety of amplifiers and receivers before a design is approved. With many years of testing, we know it is virtually impossible to damage a component without the system first giving audible warning in the form of distortion. We also know that true factory defects are extremely rare, less than one in 10,000 drivers. Here are some considerations to keep in mind to avoid damaging your drivers:

- Even though a system may be rated for 100 watts or more it is very easy to damage it with a low power receiver. When an amplifier runs out of power, it "clips". This clipping produces large amounts of distortion which sends excessive energy particularly to the midrange and tweeter. This clipping distortion accounts for more than 75% of all tweeter failures. How do you know if the amplifier is clipping? Volume knob placement does NOT indicate much. Some receivers reach full output well before 12:00 on the dial. Use of the

loudness button, bass boost and treble boost can all drive the receiver and then the speaker into distortion at fairly low levels.

-Many of today's recordings including CDs contain extremely powerful low bass. This low bass can easily drive woofers into over-excursion or cause the amplifier to run out of power and clip, causing tweeter or midrange damage.

-Our systems are designed for accurate sound. Our rate of damage or failure is extremely low. We could make the systems even more rugged if we were to compromise sound quality. Moving the crossover points upward would protect midrange and tweeters better while causing a loss of detail, clarity and imaging. The cabinets and woofers could be designed to roll-off the low bass which would protect the woofers but this would lessen the low bass response and clarity. Protection devices could be added in the crossovers which would shut the system down when damaging power or distortion was present but every one of these devices audibly degrades the sound!

**You can protect your speakers by following a couple of very simple guidelines:**

- If it sounds at all distorted, turn it down. Distortion is a warning sign that should not be ignored.
- Don't use tone controls or equalizers if possible. IF you must use them, monitor the system carefully.
- Beware the party damage epidemic. Speakers are more often damaged during parties. All those bodies soak up sound, requiring more output to sound as loud, bass and treble controls are sometimes cranked up and nobody is listening for distortion.
- Watch out for energy put out by the amplifier in the range below 20Hz which is not music. Examples include record warps, DC current and subsonic noise in the recording. These signals can take up a lot of amplifier power which means the amplifier runs out of steam very early. These signals can also overload a speaker even though you can't hear them. If you have ever watched a cone "flap" you know just what we mean.
- Vented speakers are particularly sensitive to signals below their  $F_3$  point. The average vented box that can handle 100 watts at 50Hz may handle less than 5-10 watts below 25Hz! Sealed box speakers with low Qts. numbers have a similar characteristic although not as severe. Low organ or synthesizer notes may cause an otherwise excellent woofer to bottom out at relatively low input levels.
- Keep an eye out for excessive cone movement that is not producing music. Find the source of the problem and eliminate it, play at low levels, or use a subsonic filter (usually in your pre-amp) which will filter out energy below 20Hz. However, use of a subsonic filter may take away from the naturalness of bass sounds. We don't recommend it for extremely critical listening.

In over twenty-seven years of daily evaluation of all types of speakers on everything from 10 to 1000 watts with all kinds of music, we have never damaged a driver without first hearing audible distortion. If it sounds bad, turn it down and you will never damage a speaker. Refer to the break-in recommendations at the end of this manual.

## ***Hookup***

Your Sapphires are furnished with five-way type binding posts. You may choose to utilize spade lugs, banana jacks, pins, or bare wire. It is important that the positive and negative leads do not touch. If you use bare leads, be sure to twist them tightly and insert through holes in such a manner that they do not fray or short out against each other. Good connections are important, so make sure any ends are tightly crimped and preferably soldered to the wire ends. Speaker wires should be kept as short as possible, (long wires add excessive resistance and color the sound.) The use of quality wire is recommended. ACI stocks and recommends DH-Labs Silver Sonic T-14 or Q-10 cable.

Make sure you hookup the speakers in the correct polarity. The red (positive) terminal on your amp should hook up to the red binding post, and the black terminal should be connected to the black binding post. Keep this the same for both speakers in a stereo pair. A way to check the correct polarity is to play music with a lot of bass. The correct hookup will yield the greatest amount of bass.

## ***Speaker Grills***

Your Sapphires are supplied with cloth covered grills which enhance the appearance of your speakers and provide some protection for the drive units. The inside and outside edges of the grills are shaped to reduce unwanted high-frequency reflections. To protect the drivers we recommend leaving the grills in place most of the time. However, for the most critical listening we suggest you remove the grills.

## ***Positioning the Sapphires***

As mentioned, the proper placement of speakers in your room will easily improve the sound. Because all of our rooms and tastes are different, it is impossible to specify a “correct” placement. Instead, let us present you with some acoustical facts, then you can optimize placement in your room.

It helps to visualize sound waves as behaving very much like water waves. The sound we hear is made up of two types of waves. Direct sound waves come right from the speaker and are not changed in any way. Reflected waves come to us after bouncing (diffracting) off the speaker enclosure itself, or walls, ceiling, floor or furniture. If you want to see how much these reflected waves affect the sound, move your speakers outside and hear the difference.

Sound waves come in different lengths; the lower the note, the longer the wave. Extreme low frequencies such as the lowest organ pedal notes are over 60 feet long! If your room is not big enough, the wave can't develop fully. But the biggest problem with bass notes is the phenomenon we call standing waves. In effect the waves more or less “pile up”. This creates big peaks and dips in the bass response. If you put a certain frequency through the speakers, you can usually walk around the room and find places where it is very loud, and places where you perceive virtually nothing.

Just as the room affects the bass response, so it affects the mid-treble sound of the system. In the mid-treble range, the sound waves are shorter and have peaks and dips, most of the affects (peaks and dips) occur from enclosure edges, furniture, walls, or the floor. Sapphires exhibit the deepest image when placed away from walls and furniture. The shorter wavelengths of the mids and highs are more easily absorbed than the longer wavelengths of low frequencies. This is why a bare room sounds so harsh compared to a room with a lot of stuffed furniture, carpets, drapes, etc.

### ***An ideal setup for sound would be achieved if you could:***

- Choose a room with width, height and length dimensions that are not multiples of each other. (A cube would be the worst!) Good numbers might be something like, height = 8 feet, width = 15 feet, and length = 26 feet.
- Choose a room that has an irregular shape, non-parallel walls cut down on standing waves.
- Place the speakers so that the woofer cones are at irregular distances to the floor, walls and ceiling. This can be difficult. Use a tape to measure the distance from the center of the woofer to the room boundaries. Move the woofers around till you have cut down on the number of related distances. (You don't want distances like 12 and 24”, but more like 12 and 22”). Use the distance from the woofer to the boundaries to increase or decrease bass output. Sticking the speaker in the corner or close to walls will give more bass output than putting the speaker out into the room. You can use this to get the best balance between bass output and upper range output.
- Use absorbent materials to help smooth upper-range response and improve transient response and clarity. Why? Let's take the sound of a bell for example. First you will hear the direct sound from the speaker. But some of that sound bounces from wall-to-wall, ceiling-to-floor, off furniture, etc. before it reaches your ears milliseconds later. Because the time difference is short, you don't hear an echo, but the sound of the bell is stretched out from something like a “ding” to a “ddiiinnngg”. Some speaker engineers have begun to realize this and are addressing the problem in their latest designs. This is why we are now seeing very directional designs. This controlled directionality increases the amount of direct sound in proportion to reflected sound.

- Place speakers as far as possible from other furniture and room boundaries. Keeping the mids and tweeters away from the floor is particularly important. For stereo use the Sapphires are designed to sound best when the optional Atlantis or Sanus Systems 24-26" stands are used. These stands can be sand filled and are highly recommended.
- Use padded furniture and drapery when possible to cut down on reflections. Furniture has the added bonus of helping to break up standing wave patterns in the bass.
- Use a symmetrical placement of the speakers in the room. Of course the distance between the speakers is also important. In general, the further back your listening position, the farther apart should be your speakers. In most rooms you will want the Sapphires placed between five and eight feet apart. Experiment! Too much distance will smear the image and it will seem like there is a hole in the middle. Too small a distance will compress the image.
- Experiment with facing the speakers straight into the room or toed in slightly toward the listener. For video applications the left and right speakers should be close to the edges of the screen.

#### **Left – Right Speaker Placement:**

Your Sapphires are constructed in mirror-imaged pairs. Best stereo imaging and smoothest response is usually attained with the speakers placed so the tweeters are mounted to the outside. However, depending on your room setup and system, your Sapphires may sound better with the tweeters mounted to the inside. Try the Sapphires both ways to determine which placement provides the best response in your application.

### ***Adding Subwoofers***

Using subwoofers gives you some flexibility that you don't have with an all in one system. But it also requires some decisions.

- Choosing between the Force, Titan, or Maestro subs: All were designed to mate perfectly with the Sapphires. These are self-powered subwoofers, which makes them an ideal add-on. Because the crossover frequency and output levels are adjustable they can be easily integrated with the Sapphires in any system. A single Titan mated with a pair of Sapphires has been one of our biggest selling combos for years. Substituting a Maestro for the Titan will yield a system with superb dynamic range even in very large rooms. For those who want stereo subs, all three subwoofer models are suitable and your choice will depend on budget, room size, and how loud you like to play it. Check the website for more information, email us at [sales@audioc.com](mailto:sales@audioc.com) or call us at (608) 784-4570 for help in deciding the best subwoofer(s) for your needs.
- For the most coherent image the subwoofers should be relatively close to the main speakers. Because of the electronic crossovers in the ACI subwoofers, the exact placement is not as critical as with most subwoofers.
- Placing the subwoofers close to a wall will increase bass output. Moving the subwoofers into a corner will increase bass output even further. Use the placement to fine-tune the amount of bass your system produces.
- If you take time you can usually find a way to get the main speakers away from walls while optimizing the placement of the subwoofers for the best bass.
- Stereo subwoofers will usually yield the smoothest bass response when they are placed asymmetrically in the room. A good way to start is with one in or very near a room corner and the other subwoofer about 1/3 of the way along a wall.

- Experiment with the phase of your subwoofers relative to your Sapphires. Correct phase is dependent on the relative distances of the Sapphires and sub(s) to the listening position. Leave the Sapphires in their normal phase, but use the phase adjustment of the Force, Titan or Maestro to fine tune. Easy, detailed instructions for subwoofer adjustment and setup can be found in the subwoofer owner's manual or on the ACI website.

Remember, it's what fits your room and sounds the best to *you* that counts. Position the speakers to give you the sound *you* want.

#### **Port Plugs:**

Normally, the Sapphire's front ports are an important part of the Sapphire's sound quality and bass response. In some situations, it may be beneficial to plug these ports with the supplied foam plugs. Plugging the ports will reduce the bass output. Plugging the ports will change the Sapphires into an aperiodic system with a more gradual low-frequency roll off that begins at a higher frequency. We suggest experimentation in the following situations:

1. If using the Sapphire with a quality subwoofer such as the Force, Titan or Maestro. Installing the foam plugs may result in a smoother transition between the subwoofer and the Sapphire.
2. If you have a room-setup situation in which the bass seems to be too prominent. This might occur if the Sapphires are pushed right up to the walls. It will depend on room dimensions and other equipment used.

Install the foam plugs by inserting so they are fully in the port. They may easily be removed using tweezers, pliers or something similar.

### ***Speaker Break-In \*\*\*\*\*Important!!!***

Allow at least 60 to 70 hours of playing time before your new ACI speakers will sound their best. The adhesives and materials used in manufacturing must stretch and flex properly before a speaker will sound its best. After break-in the bass will be tighter and go lower, imaging and transparency will improve and the midrange and highs will sound smoother and more natural.

A couple suggestions for quicker break-in:

- Play the Sapphires at medium volume while away from home. A CD player on repeat or FM radio works fine.
- Place the Sapphires grill-to-grill and reverse the polarity on ONE of the speakers. Wiring them out-of-phase like this will cancel much of the sound and allow you to break them in when the sound would otherwise be obtrusive.

### ***Troubleshooting***

Occasionally we get a call or Email from someone who feels there is a problem with his or her ACI speaker. At least a couple of times a year we will get a call or letter that goes something like this: "Speaker not working properly, can't get enough sound even with the volume turned way up." The problem may be different, but with this little information to go on it is almost impossible to trouble shoot the problem "long distance".

**The following checklist may help:**

- 1) Are all system hookups properly connected, not partial shorted wires, or reversed connections, etc?
- 2) Did you try the rest of your system with other speakers to determine if the problem exists with the speakers?

- 3) Please be realistic in your expectations. Our speakers offer excellent value but we can't beat the laws of physics. For instance, a medium sized speaker such as the Sapphires sounds excellent but will not play as loudly as a very large speaker.

IF for any reason you aren't satisfied with the sound you're getting from your speakers we want to know about it. Make sure the speakers have had adequate break-in time. Before you call, write or email please try to narrow down the problem and eliminate other factors. If you contact us we will need to know:

- The size of your room
- Where you have the speakers placed
- What other equipment is in your system
- Have you tried other speakers (which ones, and did they eliminate the problem)
- Any other specific symptoms or information you can provide

*Our Customers are #1 with us, and we want you to be completely happy with your ACI speakers!*

## ***The Company***

Audio Concepts, Inc. (ACI), has been satisfying discerning music lovers since 1977. Our goal has and always will be to provide exceptional product and service to music enthusiasts around the world. Audio Concepts speakers are an expression of dedication to our customers and their desire for accurate musical reproduction. We believe you must audition speakers in your own home and in your own system. Please see the warranty statement for details.

After listening, please fill out and return the warranty registration. This warranty registration is important. It allows us to reach you in the event of future upgrades. The comments you make on the warranty help us to continually improve our products and customer service. Thank you!

Specifications and design are subject to change without notice due to our continuous research and development program.

Handcrafted with pride in the U.S.A.

**Audio Concepts, Inc.**  
901 South 4<sup>th</sup> Street  
La Crosse, WI 54601  
Phone: (608) 784-4570 Fax: (608) 784-6367  
E-Mail: [service@audioc.com](mailto:service@audioc.com) URL: <http://www.audioc.com>

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## Warranty Registration, Please Return

**ACI div. Audio Concepts, Inc.**

901 S. 4th Street, La Crosse, WI 54601

[service@audioc.com](mailto:service@audioc.com) (608) 784-4570

Congratulations on becoming an ACI speaker owner. Completing this registration enables us to contact you regarding future upgrades. Your information helps us provide the best possible products and service. If you need additional room please continue on the back. You may also register your product electronically at our web site. <http://www.audioc.com>

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Main reasons you purchased from ACI: \_\_\_\_\_

Where did you first hear about ACI: \_\_\_\_\_

System(s) purchased: \_\_\_\_\_

Date received: \_\_\_\_\_ Invoice Number: \_\_\_\_\_

Condition received in: \_\_\_\_\_

Comments or suggestions regarding our staff or service: \_\_\_\_\_

Other audio equipment used: \_\_\_\_\_

Do you have a home-theater system? \_\_\_\_\_

Do you plan to purchase other speakers within the next two years? \_\_\_\_\_ If so, what types of speakers are you interested in purchasing, (Tower speakers, satellite speakers, subwoofers, wall speakers, outdoor speakers, home-theater speakers, etc.) \_\_\_\_\_

***All speakers require at least 60-80 hours of playing time to sound their best. After your speakers have had time to break-in and you've done some serious listening please tell us:***

Features you like most about your ACI speakers: \_\_\_\_\_

\_\_\_\_\_

Areas of performance or appearance you'd like to change: \_\_\_\_\_

\_\_\_\_\_

Other comments or suggestions: \_\_\_\_\_

Will you recommend us to others? \_\_\_\_\_ (Over 1/2 of our customers were recommended to us by testimonials on computer data bases or referrals from someone they know. We put the money we save on advertising into the highest quality products at the lowest possible cost to you.) We would appreciate being able to use your comments in future advertising. Please sign here to allow us that privilege.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

***Thank you for taking the time to complete and return this registration!***