READ THIS FIRST

Genesis loudspeakers in general are heavy and slippery. This is as a result of the fine veneer, and high gloss finishes that we put on the speaker to make them beautiful and an object of art. They have a luxurious feel as well as an elegant look.

The cabinet is solidly made of high-quality MDF and/or composite material. Transducers have large magnetic assemblies and the crossovers use large, high-grade components. All of this leads to a very heavy object for its size.

Due to the weight, and also to the waxy finish, the loudspeaker may be slippery and difficult to handle. We always recommend a minimum of two people to unpack, move them around, and set them up.

Your speakers will come wrapped in a 100% cotton “sock” inside a double-corrugated cardboard carton. Examine the carton for shipping damage. Dented corners are an indication of something having gone wrong during shipping.

Enlist a friend to help you unpack and set-up the loudspeaker. Not only is it safer, it is more fun than doing it yourself.

Lift the speaker in its sock out of the shipping carton. Don’t just grab the sock to lift the loudspeaker. The sock may break. Be careful that you do not inadvertently put a finger through a driver.

Unwrap the loudspeaker, and store the sock in the shipping carton. Store the shipping carton in a safe, dry place.

Read this owner’s manual, and then get started.
Owners Manual and Set-up Guide:
Genesis 7.2 Convertible Loudspeaker

Contents

1 A QUICK START SET-UP GUIDE 5
  1.1 UNPACKING 5
  1.2 PLACEMENT 5
  1.3 CONNECTIONS 6
  1.4 ADJUSTMENTS 6

2 SETTING UP: MULTI-CHANNEL 7
  2.1 POSITIONING FOR CENTER CHANNEL 7
  2.2 LOUDSPEAKER CONTROLS 7
     2.2.1 Tweeter Control 7
     2.2.2 Tweeter Defeat 7

3 SETTING UP AS STEREO PAIR 8
  3.1 POSITIONING 8
  3.2 LOUDSPEAKER CONTROLS 8
     3.2.1 Tweeter Control 8
     3.2.2 Tweeter Defeat 9
  3.3 TUNING THE SYSTEM 9
  3.4 ONE CHANGE AT A TIME 9
  3.5 IMAGING AND SOUNDSTAGE 9
  3.6 DEFINING THE SOUNDSTAGE 11
  3.7 ROOM TREATMENT 11
  3.8 MASTERING THE REFINEMENTS OF THE SYSTEM 12

4 THE TECHNOLOGY USED 14
  4.1 DIPOLAR CONFIGURATION 14
  4.2 THE TRANSDUCERS 14
     4.2.1 THE GENESIS RIBBON TWEETER 14
<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.2.2</td>
<td>Titanium Mid-Woofer</td>
<td>15</td>
</tr>
<tr>
<td>4.3</td>
<td>Crossover</td>
<td>15</td>
</tr>
<tr>
<td>4.4</td>
<td>Vibration-Free Cabinet</td>
<td>16</td>
</tr>
</tbody>
</table>

## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
</tr>
</tbody>
</table>
A Message from Genesis

Congratulations! You are now the owner of one of the finest loudspeakers in the world. The Genesis 7.2 Convertible (G7.2c) features the world’s first solid titanium cone mid-woofer, and shares technologies developed for our flagship Genesis 1.2.

The G7.2c is designed to be as flexible as possible. It can be used as a pair of audiophile stereo loudspeakers or, in a multi-channel system, can also be used as main left/right speakers, a center channel speaker, or as surround or rear channels.

So that it will fit into the décor of any home, the cabinet design is a combination of acoustic, furniture, interior design and architectural principles. Care was taken in the selection of fine furniture-quality natural wood veneer finishes, and high-gloss automotive finish.

Sound structural engineering principles have been applied to make the G7c cabinet rigid and well damped. All construction is of ¾ inch MDF and panels have been “tongue and grooved” to ensure that the cabinet is the best environment on which to mount the transducers. This results in extremely low cabinet coloration, and excellent soundstaging and imaging. The proportions are also designed to be visually pleasing and elegant.

Please read this Owners Manual and Set-up Guide to get the maximum enjoyment out of your purchase. Also, check out our website at www.genesisloudspeakers.com for the latest updates, tips & tricks, and support for our owners.

Please write the serial number and purchase details of your Genesis 7.2c here for future reference.

Purchased at: ______________________ Date: __________
1 A Quick Start Set-up Guide

Now that you have your new Genesis 7.2 Convertible (G7.2c), we realize that you can’t wait to hook it up and start playing! However, please read this quick set-up guide (even if your dealer is setting it up for you) before you proceed.

1.1 Unpacking

Your loudspeakers will come to you in two shipping cartons weighing over 35lbs (16kgs) each. Care must be taken when moving the carton around, and taking the speaker out of the box. While the speaker is small, it is also slippery and heavy. Use correct lifting techniques utilizing the muscles in your legs, and not just your back.

We will not be held liable for damage to either the speakers or your backs during unpacking and setting up. Be careful as you may inadvertently damage the drivers if the cabinet slips and you grab at it and put a finger into the woofers. Do not try to lift the cabinet by the shield (it is not a handle!) or by grabbing the woofers as handles.

1.2 Placement

As a stereo pair of speakers, a good starting position for your G7c is at least 18 inches (45cm) into the room as measured from the front wall (the wall you look at as you are seated listening to the speakers) to the back of the speakers. Place the speakers vertically on a stand that is at least 18 inches high, and about five feet (1.5 metres) apart with the tweeters closest together firing straight ahead with no toe-in.

Used as a center channel, the G7c can be placed below or above your screen. If you have a perforated, sonically transparent projector screen, you may place it behind the screen. In all cases, do not point the tweeter directly at the ears of the listeners. Angle the speaker so that the tweeter points 12 inches (30cm) below the ears or over the top of the head.

You will want to sit nine to twelve feet (three to four metres) away from the speakers. When sitting further away, you should place the speakers further apart. When sitting nearer the speakers, move the speakers closer together.

If you are using the G7c as surround or rear speakers, and you are hanging them on the wall, you will need a qualified installer to mount them on very strong brackets. The speakers weigh over 30 pounds.
(13.6 kgs) each, and can cause death or severe injury if it falls on someone’s head!

1.3 Connections
The speakers should be connected directly to the speaker-level output of your power amplifiers using high quality speaker cables and the 5-way binding posts. We recommend the Absolute Fidelity Loudspeaker Interface Cables.

The high-level thru-put binding posts are for connecting to a subwoofer. We recommend the Genesis ServoSub™ 4/8 as the perfect complement to this speaker. The correct cable for connecting a loudspeaker to a ServoSub is an interconnect cable, and not a loudspeaker cable.

The ServoSub has a high-impedance input, and the speaker and power amplifier has a low-impedance output. A computer-networking CAT5 cable can be used as this “jumper” if a good interconnect cable is not available. A better option is to use the Genesis ServoSub Interface Cables.

1.4 Adjustments
Don’t be too worried by the knob and switches on the back of the G7c. Set knob (tweeter level) to the 12 o’clock position, and the stand-alone/with-sub switch depending on whether you have a ServoSub™ connected.

If you have at least 12 inches (30cm) of space between the back of the speaker and the rear wall, the rear tweeter should be left ON. Otherwise, turn the rear tweeter off with the tweeter defeat switch on the back panel.

That is a good place to start. The G7c will sound great, straight out of the box. As you play your system for the next hundred hours or so, the speaker will settle down and break in.

Once you familiarize yourself with its performance, putting a little bit of additional effort into tuning the speaker properly for your system (which includes the room), will give you greater long-term enjoyment and benefits.
2 Setting up: Multi-channel

2.1 Positioning for Center Channel
A good starting position is for the G7c to be placed horizontally about 20 inches from the floor, and angled upwards by 3 to 5 degrees. This is assuming that the speaker doesn’t block the screen in this position.

Use a good quality stand that is solidly built and as rigid as possible. The Genesis ServoSub™ 4/8 is a unique subwoofer that complements the G7c to turn it into a full-range absolute fidelity™ system, and also makes a perfect stand for the G7c.

An alternative is to place the speaker horizontally above the television set, and angle it downwards by 3 to 5 degrees. In either case, do not point the speaker directly at the head of the listener, but either over her head, or at her chest.

As these speakers are dipolar with a rear-firing tweeter, there should be at least 12 inches (30cm) of space between the back of the speaker and the wall. If this space is not available, turn the rear tweeter off with the tweeter defeat switch.

On the home theatre processor, set the speaker to “LARGE” as the G7c plays below 60Hz.

2.2 Loudspeaker Controls

2.2.1 Tweeter Control
The knob marked TWEETER on the plate on the back of the speaker is used to tailor the high-frequency response of the G7c. It is a subtle control, but can make a great difference in gaining that last bit of additional performance from your speakers.

Turning this control clockwise will increase the level of the tweeters. Use this control if you need a bit more treble, or to increase the apparent space of the soundstage. Too high a tweeter level, and you can feel that voices are too sibilant. With music, crashing cymbals are leaping out at you, and nylon stringed guitars sound steely. Start with this control at the 12 o’clock position. There is about a ± 1dB range for this control.

2.2.2 Tweeter Defeat
The G7c should be placed at least 12 inches (30cm) away from the wall behind the speaker. If this is not possible, turn the rear-firing tweeter off to configure your loudspeaker as a monopole. This is perfectly acceptable and will not compromise the performance for multi-channel surround movies.
3 Setting up as Stereo Pair

3.1 Positioning
Used as a stereo pair, the G7c should be placed vertically at least 18 inches (0.45m) into the room as measured from the front wall (the wall you look at as you are seated listening to the speakers), to the back of the speaker. They should be placed on good, solid speaker stands about 18 to 24 inches (60cm) high.

Start with the speakers five feet (1.5m) apart with the tweeters placed closest together, and firing straight ahead with no toe-in. You will want to sit 9 to 12 feet (3 to 4 metres) away from the speakers (if you have the space). We will experiment with moving the speakers around later.

As these speakers are dipolar in the high frequencies, they are pretty room-friendly and you are free to move the speakers closer to, or further away from the front and side walls. We do recommend, however, that you give the speakers a little bit of breathing space behind them, so don’t push them up tight against the wall.

If you have the speakers too close to the front wall, you will find that the image depth is not as good - the soundstage becomes a little two-dimensional. If you have the space to move the speakers away from the wall, do so. You will be rewarded with the deep, broad soundstage that this loudspeaker is capable of. You should be able to “see” the soundstage behind, as well as in front of, the loudspeakers. The sound stage will also extend outside the left and right sides of the speakers.

3.2 Loudspeaker Controls
3.2.1 Tweeter Control
The knob marked TWEETER on the plate on the back of the speaker tailors the high-frequency response of the G7c. It is a subtle control, but can make a great difference in gaining that last bit of additional performance in tuning your speakers for the room in which you are using them. It can turn your system from very good to exceptional, so take the time to work through this process.

Turning this control clockwise will increase the level of the front tweeter. Use this control if you need a bit more treble, or to increase the apparent space of the soundstage. Too high a tweeter level, and you can feel that crashing cymbals are leaping out at you, and nylon stringed guitars sound steely. Start with this control at the 12 o’clock position. There is about a ± one dB range for this control.
3.2.2 Tweeter Defeat
The optimal way to use these speakers as a stereo pair is to leave the rear tweeters on, and run them as dipole and at least 18-inches from the front wall. However, in some cases, this may not be possible.

Should the speakers have to be placed with their backs less than 12 inches from the wall, the rear tweeters should be turned off.

3.3 Tuning the system
Music is the best way to begin your set-up procedure. We suggest that video sources be used only after you have set-up the system to properly reproduce music. There is no “perfect” setting for the G7c loudspeaker. Every listening room is different, and we recommend that you take the time to carefully tune the system for the environment in which it is placed.

Your Genesis loudspeakers should sound great straight out of the box. If you don’t like the sound, several hundred hours of breaking-in will not change the sound of your speakers, although it may break-in your ears!

3.4 One Change at a Time
One rule of thumb you should always keep in mind: Make one change at a time! Do not, for instance, change position of the speakers and make an adjustment to the tweeter all at once. Make each of these changes separately and note the difference - by listening with each adjustment - then make the next change.

3.5 Imaging and Soundstage
We suggest that you start with a single vocal with simple instrumental accompaniment because the sound of the human voice is more easily recognizable than many instruments and is a less complex sound to deal with. Use a good recording that you know has atmosphere and low bass content.

The performer should appear to be positioned behind the loudspeakers and be at the appropriate height for a standing person. If it is not, there are several remedies that will address this shortfall:

If the vocal appears to be larger than life, you should first check the system volume. Is it a volume that would be appropriate for someone actually singing in your room? If there is too much volume the artist will appear too big and the opposite is true for too little volume. If the volume is set correctly and the image is still too big, place the speakers closer together and re-listen. Place the speakers
no less than 5 feet apart. If the image is still too big, toe the speakers in a slight amount.

Conversely, if the image is too small, move the speakers apart. The speakers should be no more than eight feet apart. Repeat this process until you have it right.

The wider apart you have the speakers, relative to your seating position, the more you will have to toe the speakers in. However, this may result in “audiophile-itis”. You get a huge soundstage, but only a tiny sweet spot and you have to sit exactly in the center. Also, when the speakers are very far apart, you may have to play them louder before you can enjoy a realistic soundstage. The images are more diffuse, and can seem larger than life.

If you have the speakers 18 inches into the room, and you are not getting enough front to back depth (the singer not appearing behind the speaker enough), pull the speakers away from the front wall a little bit at a time. However, slightly more than 1/3 of the way into the room is about as far as you want to go. Pulling them half-way into the middle of the room is unlikely to help.

Find the best compromise for your room, your tastes and your space requirements. If you are not getting proper focus on the voice, you may angle the left and right speaker up to about 3 to 5 degrees (toe-in) towards your listening position until you have a properly defined center image. If the speakers are too far apart, the mid-bass will de-couple and you will lose the side image. If they are too close together you will have too small and congested a center stage.

When properly set up, very little sound should appear to come directly from the speaker. Instead, the sound stage should extend far beyond the left and right edge of the loudspeakers and they should have tremendous front to back depth. When the recording is close-miked (when the instrument or performer is very close to the recording microphone), the music may appear to come directly from the loudspeaker. This is normal. Typically, however, the sound should appear to be detached from the loudspeakers.

A simple rule of thumb to follow is that focus will be achieved by placing the speakers closer together or farther apart, and front to back depth can be adjusted by the distance from the rear wall. Further, as the system “breaks in”, the depth and width of the soundspace will increase and so will the “smoothness” of the sound.
3.6 Defining the Soundstage

A common problem is a tendency to separate the speakers too far from each other. This gives an unnaturally wide soundstage between the two speakers, and creates problems beyond the unnatural width of the center stage. It focuses the soundstage in between the two speakers, and you lose the “space” and “ambience” of the musical performance.

If you find that the sound is not spacious enough, or you are not getting enough front to back depth, pull the speakers away from the front wall. This is typically preferable to separating the speakers too far, and will almost always give you better depth and soundstage information. A word of caution though: If you move the speakers too far from the front wall you may lose the focus of the image.

In order to achieve what the speaker is capable of, we suggest you focus your efforts on a proper balance of soundstage elements that includes information beyond the left and right sides of the speakers, front to back depth well behind the speaker, excellent focus of instruments and voices, with proper vertical information and mid bass fill.

A Genesis loudspeaker system correctly set up, can and should provide a soundstage that is wall-to-wall, with pinpoint focus; the speakers disappearing completely on a recording containing such information.

With the G7c, adding a ServoSub or two will result in the walls of the room melting away. Ambience of large acoustic spaces is defined by low-bass, and the ServoSub adds that critical element when listening to performances recorded in large venues.

3.7 Room Treatment

No room is perfect. To optimize your sonic presentation it may be helpful to treat your room. Here are some guidelines:

Front walls. This loudspeaker is a dipole and therefore, there is sound coming from both the front and back of the speaker. How the front wall (the wall you face while listening), is treated or not treated is important. Generally speaking, the Genesis loudspeakers prefer a live (hard reflective) front wall to a dead (soft absorbent) front wall.

By these terms, we mean the amount of reflection of sound. A typical wall of glass, brick, cement or drywall material is a reflective surface. A heavily curtained or sound-proofed wall would be considered a "dead wall" or a non-reflective wall. A normal thin curtain across a window causes only a small amount of absorption.
Sidewalls. Because the speaker is a dipole, it is less sensitive to the sidewalls. However, as a rule of thumb it is a good idea to keep the speaker as far away from the sidewalls as is practical. In some rooms, it may be helpful to add some damping material or diffuser panels to the point of first reflection. This is a point on the sidewalls between the listener and the loudspeaker. It is where the sound from the loudspeaker first hits the sidewall, then bounces to the listener. This reflection is undesirable because it is slightly delayed from the original sound. This point on the sidewall can be easily determined with the help of a second person and a mirror.

Sitting in your listening position, have an assistant hold a mirror up on the sidewall. Move the mirror until you can see the tweeter. This is the point of first reflection. A diffuser (see your audio dealer), an absorptive material, a bookcase, or even a piece of furniture can help break up this point of first reflection.

Rear wall. In many cases it will be unnecessary to do anything with the wall behind your listening position. However, you may want to experiment with diffusers or absorbers behind you for best sound. Absorption behind the listener is usually beneficial.

3.8 Mastering the Refinements of the system
Fine tuning an audio system is an art that will take time and patience. It can be one of the more rewarding learning experiences you will have in the pursuit of music and its enjoyment.

In some problematic rooms a resonance may develop, at one or more frequencies, that is unnatural to the music. By moving the speakers closer to the front wall or farther from the front wall, the resonance may be reduced at the listener’s position. There are no absolute rules concerning problematic rooms, so do not be afraid to experiment with speaker placement to determine the best position of the speakers in your room.

One of the best pieces of advice we can offer is that you take advantage of your ear’s ability to identify similarities in sound. This ability is useful in
fine-tuning your system because, if every recording you listen to has a similarity of sound (too much or too little of a certain frequency for instance), then you can be fairly certain that you have yet to perfect your set-up. Keep at it, and remember to enjoy your music as you work on perfecting your set-up!

If you have any questions, feel free to contact us at Genesis. Our website is the first place you can look to for more information, but you are welcome to either send us an email, or just give us a call!
4 The Technology used

4.1 Dipolar Configuration
What a lot of people don’t realize is that the room is as big (if not bigger), a part of their music system as are the loudspeakers. At Genesis, we strive to get the loudspeakers and the room to work well together and hence, design loudspeakers that interact with the room and have enough of adjustment to make them work with most rooms in the world.

All rooms have floors, ceilings and sidewalls that distort sound because of lateral, early-arriving reflections. We aim to suppress undesirable contribution by reflected sound from these four surfaces (which is why a lot of people put sound absorbers or diffusers at the first reflection point of the room). In order to do that with a majority of rooms, we make our loudspeakers dipolar.

Dipoles radiate the same, but out-of-phase, waveform from the front and rear in “push/pull” fashion. Thus, the sound waves from the front and back of the speakers cancel out as they radiate from the sides and tops of the speakers which means that there is minimum radiation of sound to the sidewalls of the room.

The G7c uses the wall behind the speaker to give more depth to the soundstage and “air” to the speaker without detail robbing room reflections from the sidewalls. Hence, it has the advantages of omnidirectional speakers, without the disadvantages.

With fewer spurious reflections to confuse your hearing, the program source emerges more clearly. Imaging is stable, sharply focused, deeper and spacious. Transients are clearer and sharper.

4.2 The Transducers
The transducers in the 2-way G7c are all proprietary Genesis-designed drivers manufactured to our exacting standards:

4.2.1 The Genesis Ribbon Tweeter
Reviewers in the audiophile press have often remarked that the Genesis tweeter is the world’s best. It is a one inch circular planar-magnetic design crafted from an extremely thin membrane of Kapton® with a photo-etched aluminium “voice coil” that is a mere 0.0005 inch thick.

The entire radiating structure is a 3mm-wide ring that has less mass than the air in front of it! The latest version of the Genesis ring-ribbon tweeter will accurately reproduce frequencies beyond
40 kHz with a true point-source dispersion pattern. (A 1-inch dome tweeter has a true point-source dispersion pattern only up to about 13kHz.)

The result of this design is a driver that has a rapid and uniform response to high frequencies and has the speed of the best ribbon/electrostatic designs.

The G7c uses two of these tweeters per channel. One is front-firing and the other rear-firing; each controlled by a separate crossover with the rear tweeter out of phase to the front tweeter, creating a dipole.

4.2.2 Titanium Mid-Woofer
We sometimes say that the midrange is a window into the mind of a composer or a singer. And indeed, the midrange is where the “magic” is in a well-recorded musical event.

The G7c uses a Genesis-designed proprietary 5.5 inch solid titanium-coned transducer to cover this critical frequency spectrum. Manufactured out of one of the lightest and stiffest materials known, this low mass cone driver is one of the best midrange transducers ever made, with nearly instantaneous transient response, enabling the G7c to sound lifelike and effortless.

The stiffness of the titanium cone also allows Genesis to use this as a woofer – hence, mid-woofer. It retains its low distortion, even on long throw application needed in delivering the lower frequencies. Hence, the solid titanium cone allows Genesis to develop a driver that is exemplary in the midrange, as well as deliver the heft and impact of a woofer.

4.3 Crossover
We believe that the crossover is the brain of the loudspeaker. In order to manage and maximize the performance of the extensive complement of transducers used in Genesis loudspeakers, we spend more money on the crossover than many other manufacturers put in their entire speaker.

Each crossover is designed by computer modelling plus years of knowledge and experience. The inductors are custom designed and made for Genesis with OFC copper windings. The capacitors used are also custom made for Genesis, using high-quality polypropylene-film and tin-foil. The crossover of each G7c weighs over five pounds (2.2kg)! L/C tuning is employed to extract the most bass out of the small cabinet.

More importantly, the crossovers are designed with many, many hours of music listening and constant refining, tuning and tweaking of the
circuit. Out of this comes the “magic” that is a Genesis-designed loudspeaker system.

4.4 Vibration-free Cabinet
The cabinet was designed for aesthetics, but with an obsession to sonic quality, vibration control, structural strength and rigidity.

In some parts of the cabinet where vibration would have been the greatest, 1 ½ inches (36mm) of multi-layer bonded MDF was used to provide damping, structural integrity and a rigid platform for the drivers to be located.

Incidentally, MDF was chosen as the material of choice for its damping properties and its consistency in hardness, density and rigidity. It would actually have been cheaper and easier to make the cabinet of solid wood, but that would have been a compromise.

Crystalline glue the dissolves into the mdf was chosen to ensure that the interfaces between two panel pieces becomes as one. This results in the entire enclosure behaving as a single unit, with seemingly no discontinuity in material.

This results in a joint so strong that when you try to rip the joint apart, it isn’t the joint that would break. The mdf would break apart first.
5 Specifications

- Frequency Response: 50Hz to 36kHz, ± 3dB
- Sensitivity: 87 dB, 1 watt 1 meter
- Min/Max Power (Tube): 45/250 watts per side
- Min/Max Power (Solid State): 60/500 watts per side
- Input Impedance: 4 ohms (Nominal)
- HF Transducers: Two Genesis 1" Circular Ribbon Tweeters (front & rear)
- Mid/LF Transducers: Two Genesis 5.5" Titanium Cone
- Controls: Front Tweeter level, Rear Tweeter Defeat, Standalone/With Sub
- Inputs: High-level with 5-way binding posts
- Throughputs: High-level with 5-way binding posts
- Dimensions: H 7 ¾” x W 23 ¾” x D 11”
- Weight: 30 lbs (13.5kg)
- Finishes: High Gloss Black/Titanium