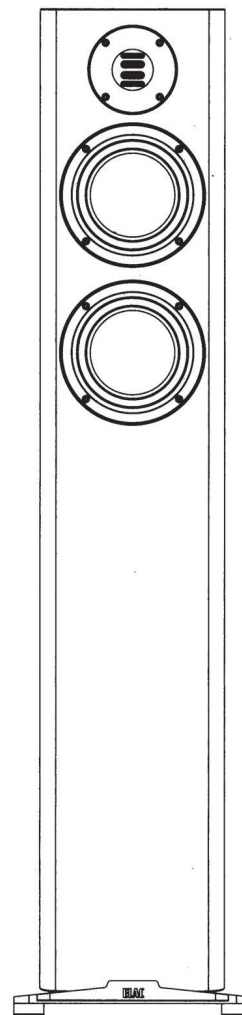
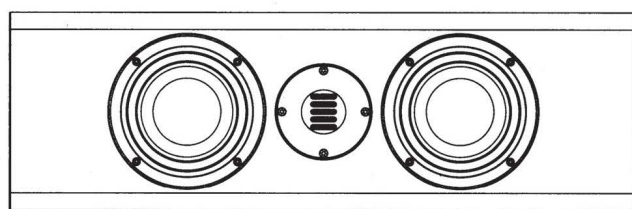
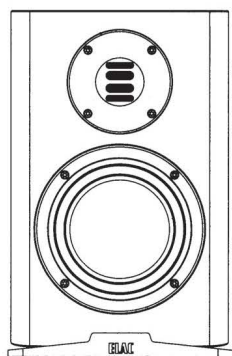


ELAC Carina™ Series



BS243.4 BOOKSHELF SPEAKER
FS247.4 FLOORSTANDING SPEAKER
CC241.4 CENTER CHANNEL SPEAKER

OPERATING INSTRUCTIONS

ELAC The life of sound.

SAFETY INSTRUCTIONS

1. General information

- Please read and follow these safety instructions.
- Keep them safe for future reference.
- Observe all warnings on the speaker and in the manual. Please check the speaker for damage before use. The speaker must be in perfect working condition. Damaged parts may lead to personal injury.

2. Use only as directed

- Connect the speaker(s) according to the instructions in the manual.
- Many ELAC speakers are equipped with spikes and/or anti-slip feet. They are explicitly provided for leveling the speaker. For leveling on an uneven floor, unscrew the spikes or anti-slip feet by 2-3 turns of thread. The speaker should always be in perfect vertical alignment: the stability of the speaker must not be compromised by using spikes or anti-slip feet as the speaker may tip-over.

3. Location

- Install the speakers on a level surface only
- When choosing the location of these speakers do not place them in locations that are:
 - In direct sunlight
 - Very humid
 - Prone to vibrations
 - Exceptionally hot or cold
 - Near CRT Televisions (the speakers are not magnetically shielded and may cause color issues with a CRT based TV)
 - Close to magnetic cards (Since the speakers are not magnetically shielded placing magnetic cards such as credit cards or commuter cards may cause them to fail).

WARNING! Please ensure the product is perfectly stable to avoid injury from tip-over. Please note, that stability can be increased by using spikes on carpeted surfaces. However, the mounting of spikes must be carried out carefully due to their very sharp ends which may cause injuries. The stability on slippery floors can be increased by using Velcro fastening tape or double-sided adhesive tape. Do not install the speaker near any heat sources such as radiators, heating valves, stoves, or other apparatus (including amplifiers) that produce heat, or in areas where there is a risk of explosion.

- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install the speaker in a closed rack or in a closed cupboard.
- Do not put burning candles on or near the speaker.
- Do not install the speaker near transformers because electromagnetic stray fields can cause hum noise on woofers.
- In combination with certain materials / lacquers / material surfaces, anti-slip feet or spike washers may cause colored imprints on the surfaces.

4. Overload

Extreme overload of the device due to very high volume may cause damage to individual components. Because of the possible danger, you should never leave loudspeakers under extreme overload conditions unattended.

5. Service

DANGER! Do not open the cabinet because the components and conductors may carry current! Servicing to be carried out by qualified service personnel only.

Servicing is required when the loudspeaker has been damaged in any way, such as damage to the power supply cord or the plug, or when liquid has been spilled or objects have fallen onto the loudspeaker, the speaker has been exposed to rain or moisture, does not operate normally, or has been dropped. To reduce the risk of electric shock, do not open the loudspeaker. Servicing should be carried out by qualified service personnel only.

6. Cleaning

NOTE: Clean only with a soft, smooth cloth or with a dust brush. Do not use scouring agents, alcohol, benzene, furniture polish or other agents for cleaning! Modern furniture is often coated with multiple varnishes and plastics which can be treated with chemical agents. Some of these agents contain substances which degrade or soften the rubber feet. Therefore we advise that you place an anti-slip mat underneath the loudspeaker(s).

7. Volume

CAUTION! Continuous high volume may cause severe damage to your hearing. Please listen responsibly.

8. Disposal

The packaging is made from recyclable materials. Dispose of this in an environmentally friendly manner. At the end of life do not dispose of the speaker(s) with standard household waste. The speaker must be recycled in accordance with local legislation. Ask your local government for further information on recycling as the device contains valuable raw materials. Disable the speaker(s) before disposal.

Philosophy

Thank you for purchasing this ELAC product.

Since the time we started (1926), ELAC has always striven to achieve the very best.

Your new ELAC speakers are built to the highest standards using high-quality components that are carefully constructed to deliver the best-in-class sound quality. They are developed by a passionate group of individuals whose sole purpose is to bring a new dimension of sound quality into your home. Enjoy!

Before Use

Avoid damage to the speakers and other components:

- Carefully unbox the speakers carefully to avoid physically damaging your speakers.
- Use appropriate gauge wires (minimum of 12 gauge wire for runs up to 25 feet).
- Make sure wire polarity is connected correctly. Most speaker cables are coded for ease of use. Make sure positive (red) connection on the amplifier terminal is connected to the positive (red) on your speakers. Follow the same instructions for the negative side. Strip off approximately 1/2" of the insulation from the ends of the speaker cable, twist the bare strands and insert into the binding post.
- Ensure your equipment is turned off before connecting speakers.
- Check to ensure positive and negative wires are not touching each other once they're connected to the speaker terminals.

Speaker Connections

The Carina speakers are designed to use conventional wiring as well as Bi-Amping or Bi-Wiring. For conventional wiring leave the metal jumpers in place and connect the + (Red) and Black (-) connectors on your amplifier to the + (Red) and Black (-) connectors on the speakers as shown in Fig 1. For Bi-Amping remove the metal jumpers and follow the diagram on Fig 2. For Bi-Wiring remove the metal jumpers and follow the diagram in Fig 3.

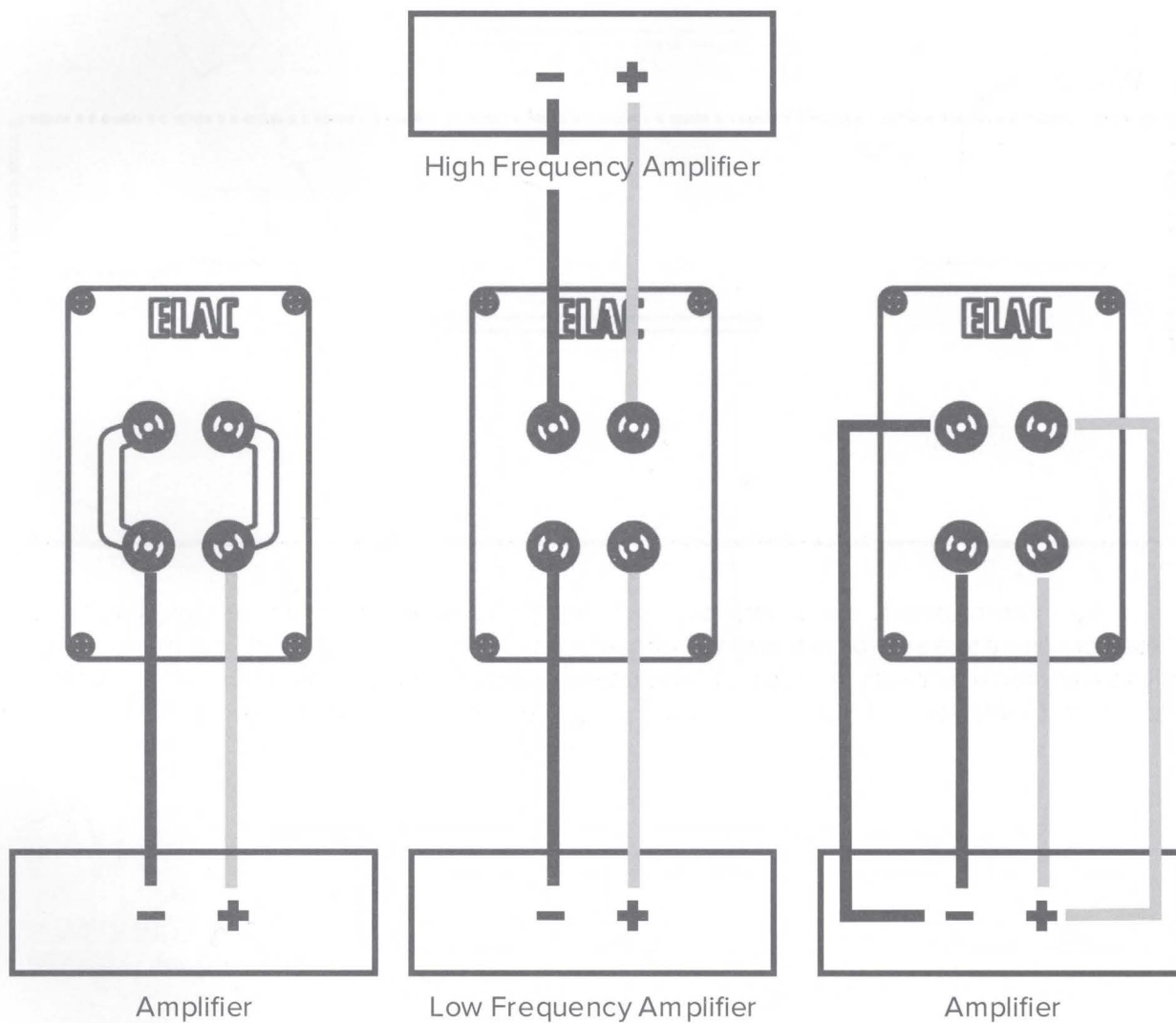


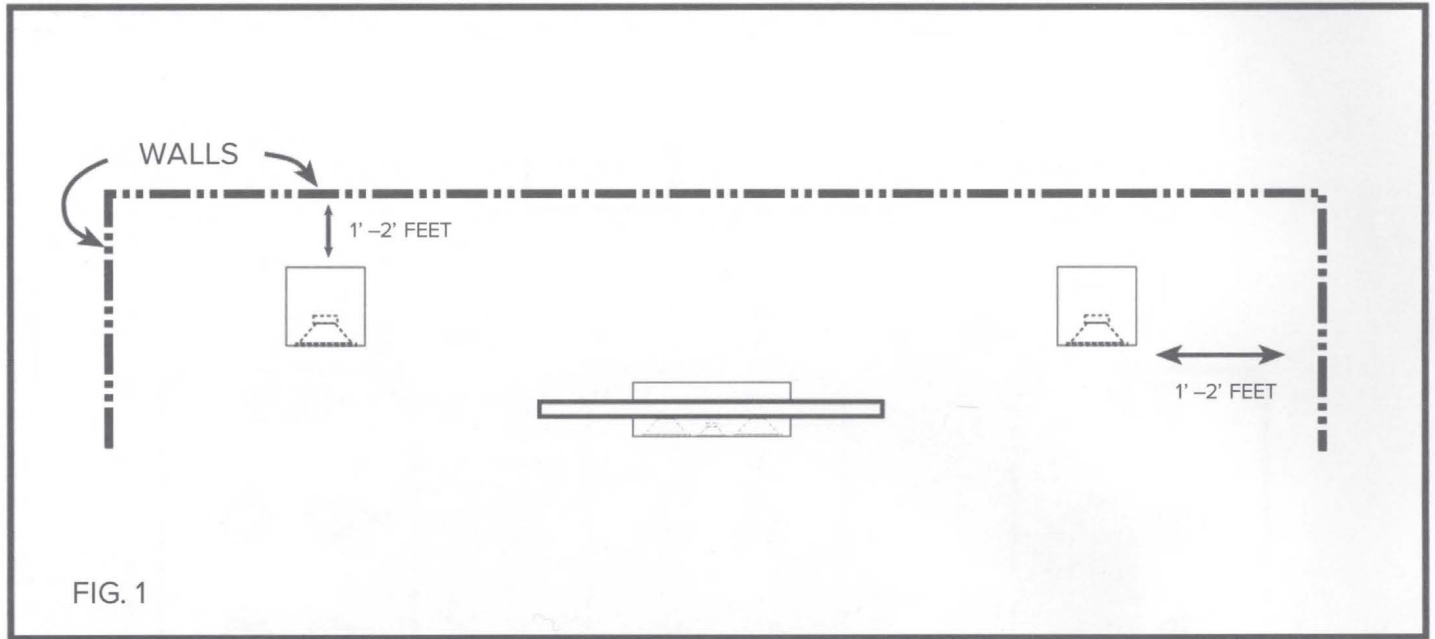
Fig. 1—Single Wiring

Fig. 2—Bi-Amping

Fig. 3—Bi-Wiring

Speaker Placement

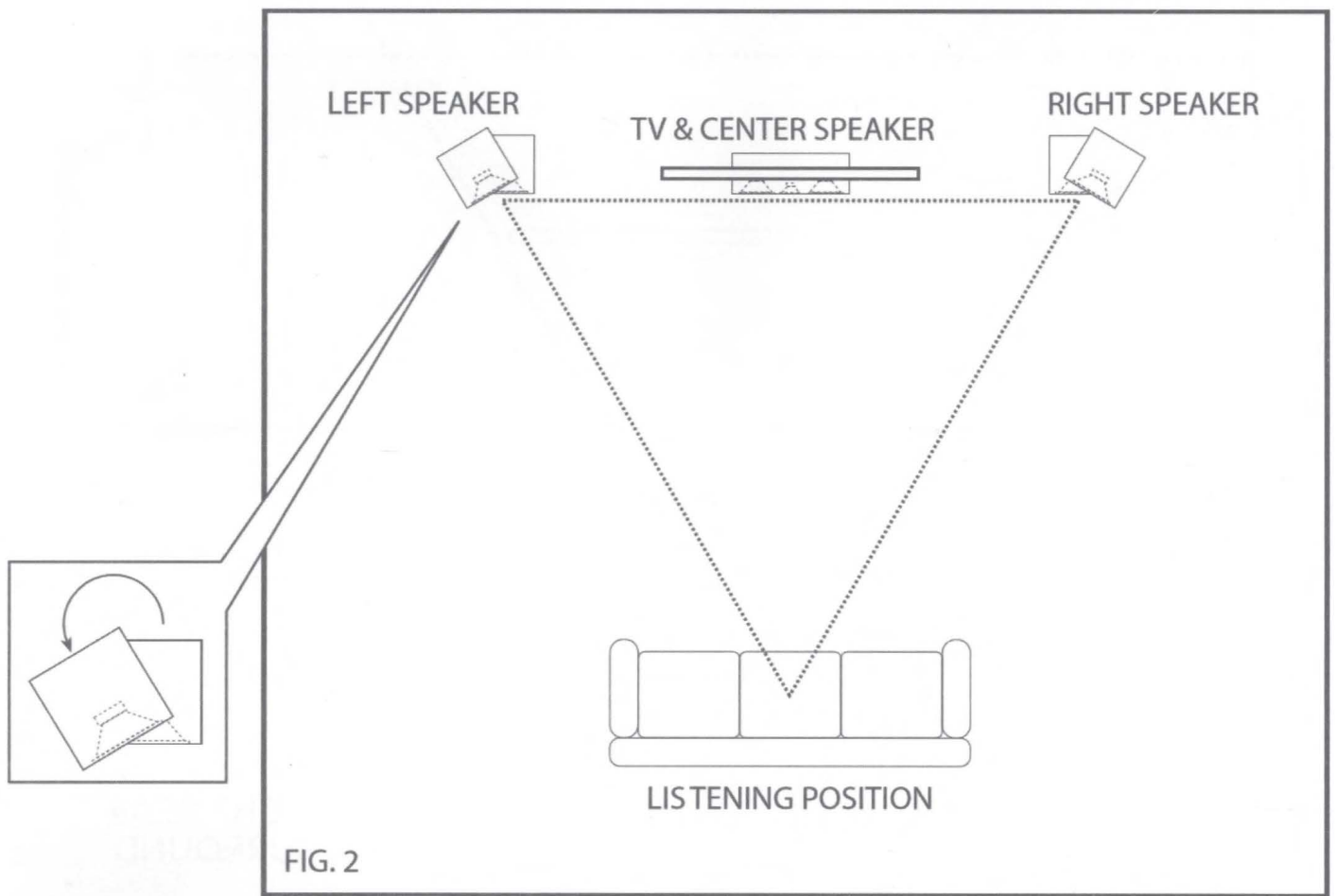
Achieve maximum performance and optimal sound quality from your ELAC Carina speakers with proper speaker placement and set-up. While not all rooms are the same, use the following guidelines to configure the speakers for your particular room. There are no “exact” rules or boundaries in setting up your speakers but the following suggestions will help optimize your desired results. Remember the best sound set-up is what sounds best for you so don’t be afraid to experiment and make adjustments to the placement and directivity of the speakers.



Place the speakers approximately one to two feet away (fig. 1) from boundaries such as wall(s) and especially corners. Close proximity to a side or rear wall will enhance bass performance (output), but being too close (particularly to a corner) may result in bass that is unnatural. If a corner location is unavoidable, try to position the loudspeaker so that the distance to the rear wall is not equal to the distance to the side wall.

Stereo Setup

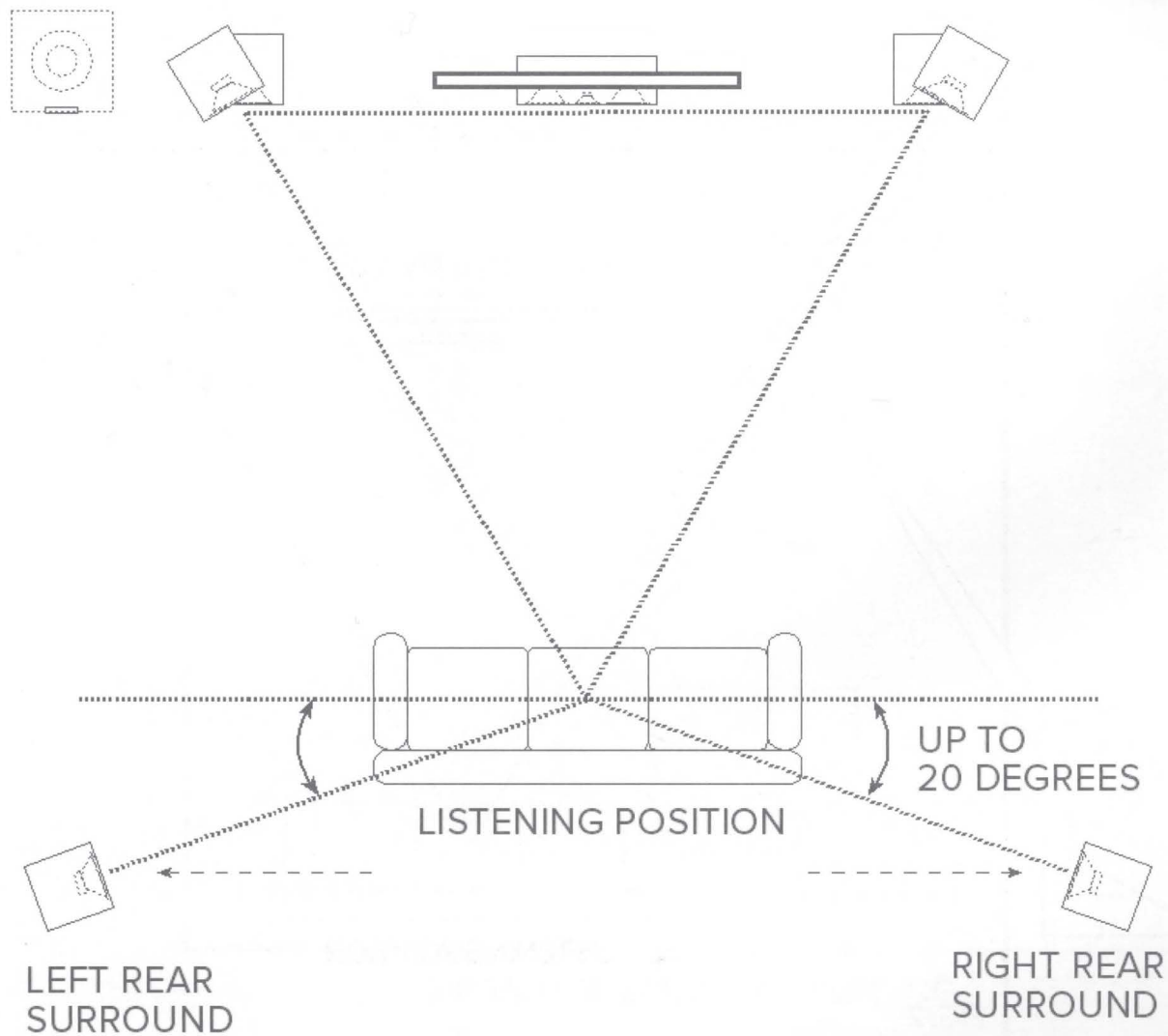
- For the best results and the most realistic stereo image and lifelike sound, place the speakers so that an equilateral triangle (fig. 2) is created between the speakers and your favorite listening position. This set up creates the optimum imaging performance.
- If you find that your front left and right speakers are too far apart, angle (toe-in) them towards the listening position to gain a more focused central image.



2-CHANNEL STEREO SETUP

Surround Sound Setup

Whether you use the Carina bookshelf or the Carina floor-standing speakers for a 5.1-channel surround set-up, avoid placing the surround speakers forward of your listening position. The surround speakers should be spread apart wider than the front speakers. In addition, elevate the speakers to the same height or slightly higher as the front speakers for the most enveloping sound field. Like the front speakers, you may need to experiment with the positioning by pointing the rear surround speakers towards the listening area.

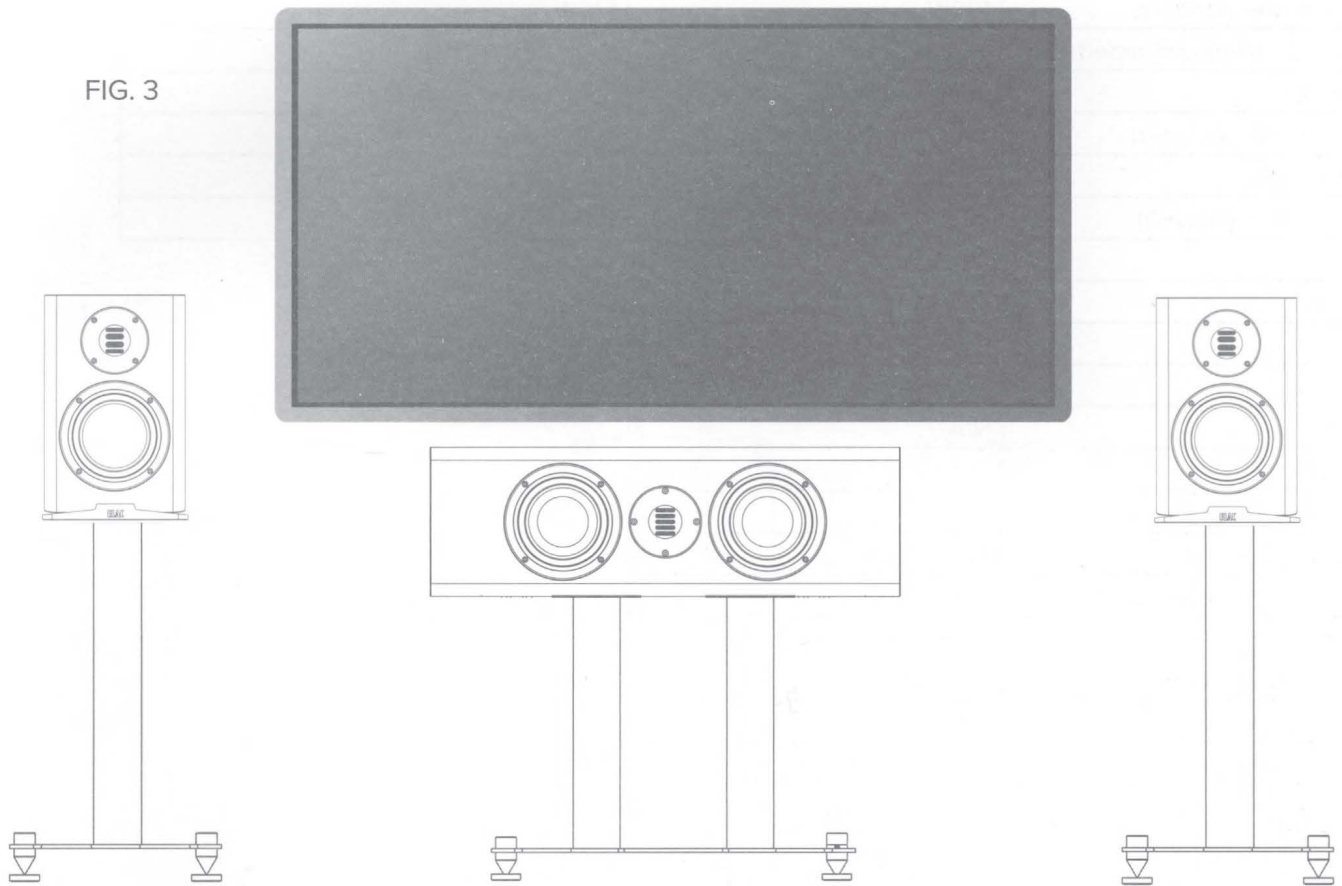


5.1-CHANNEL SURROUND SET-UP

Center Speaker Setup

The ELAC CC241.4 center channel is designed to produce dialog sounds and should be positioned above or below (fig. 3) your television. Align it with the center of the television. As much as possible, try to keep the CC241.1 close to the same level (height) as your front speakers for a more even sound stage. Keeping the same height for the center channel can be very challenging so it might be necessary to tilt the center speaker up (if too low) or down (if too high), to aim it towards the listening area.

FIG. 3



SPECIFICATIONS

Model	BS243.4	CC241.4
Type	2-way Vented box	3-way Vented box
Woofers	1 x Aluminum cone 5-1/4"	2 x Aluminum cone 5-1/4"
Midrange	N/A	N/A
Tweeter	JET folded ribbon	JET folded ribbon
Magnetic shielding	No	No
Crossover frequency	2.7kHz	100Hz / 3kHz
Frequency range (IEC 268-5)	46Hz - 30kHz	50Hz - 30kHz
Sensitivity	85dB/2.83V/1m	87dB/2.83V/1m
Recommended amplifier power	30 to 150 wpc	30 to 200 wpc
Peak power handling	100W	120W
Nominal Minimum impedance	6 Ohm / 4.8 Ohm	6 Ohm / 4.8 Ohm
Finishes	Satin Black, Satin White	Satin Black, Satin White
Accessories included	n/a	n/a
Net Weight	14.73 lbs	22.44 lbs
Dimensions (HxWxD)	08.52 x 08.06 x 12.54	08.34 x 07.79 x 24.41

Model	FS247.4
Type	2-1/2 way Vented box
Woofers	2 x Aluminum cone 5-1/4"
Midrange	N/A
Tweeter	JET folded ribbon
Magnetic shielding	No
Crossover frequency	1kHz, 2.7kHz
Frequency range (IEC 268-5)	34Hz - 30kHz
Sensitivity	87dB/2.83V/1m
Recommended amplifier power	30 to 250 wpc
Peak power handling	120W
Nominal Minimum impedance	6 Ohm / 4.8 Ohm
Finishes	Satin Black, Satin White
Accessories included	Binding post straps, outrigger feet, spikes and discs
Net Weight	36.20 lbs
Dimensions (HxWxD)	08.52 x 08.06 x 42.07

ELAC Americas Inc.
North America Limited Liability Warranty
Passive Speakers (No Built-in Amplifier)

ELAC Americas Inc. warrants to the original purchaser that this product be free from defects and or workmanship for a period of 3 (Three) years from the original date of purchase. During this time period, repair or replacement of parts will be free of charge to the original owner (See below limitations). Shipping to and return from the repair center will be the responsibility of the original purchaser.

Limitations

- Warranty begins on the date of original purchase from an authorized ELAC Americas Inc. dealer.
- Product is warranted only if used in home applications within the max power rating specified in this manual. Commercial use of this product is not warranted.
- Product that has been modified or altered in anyway will not be warranted.
- Product that has been abused or subjected to faulty equipment will not be warranted.
- Products with defaced or removed serial numbers will not be warranted.

If service is required

In the event that service is required, please contact ELAC America at 714-252-8843 or at customerservice@elac.us to arrange for service or replacement. You will be responsible to provide proof of purchase (Copy or original sales receipt). Shipping to and from our repair center will be the responsibility of the original purchaser.

Warranty Outside of North America

This warranty applies to products purchased in the United States and Canada. For warranty claims outside of North America please contact the local dealer/distributor in the country of purchase.

ELAC The life of sound.

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ELAC

The life of sound.

Carina™ Series

A New Classic

Simple yet striking looks. Breathtaking sound. The new Carina series matches fresh visual elegance with remarkable sound to bring you what promises to be a new classic in ELACs lineup.



Carina Series Speakers

Developed from the renowned award winning 240 series.

Building upon its performance, Carina continues ELAC's tradition of utilizing the JET tweeter, chosen for its amazing clarity, dynamics and attack.

To match this capability, a new in-house developed proprietary compound curvature aluminum coned woofer is seamlessly blended via a sophisticated multi-element xover to produce an organic life like sound experience.

Fresh looks, fresh sound; the new Carina is destined to further enhance ELACs class leading reputation.

CARINA SERIES FEATURES

Jet Folded Ribbon Tweeter

Delivering true high-definition sound, ELAC's JET tweeters enthrall with its lightning-fast response and wide dynamic range, offering minimal distortion, lots of headroom and a wider frequency range. The ELAC JET tweeter is one of the most legendary tweeters in the industry and has won international praise with its transparent and effortless sound image.



Sophisticated Compound Curvature Aluminum Woofer

To match the capabilities of the JET tweeter and guarantee a seamless transition from the woofer to the JET tweeter, the compound curvature cone has been developed to control the cone breakup and move it well beyond the operating range of the woofer. A large diameter voice coil and oversized vented pole piece magnet combine to give remarkable bass dynamics and a rich powerful performance.



Downward Firing Ports

For a more flexible speaker placement and to minimize ventilation noise, the bass reflex port on the Carina series is directed to the floor, exiting the bottom of the speaker cabinet in a down-firing configuration.



Carina Series Speakers

SPECIFICATIONS	BS243.4 Bookshelf Speaker	CC241.4 Center Channel	FS247.4 Floorstanding Speaker
Type.....	2-way Vented box	3-way Vented box	2-1/2 way Vented box
Woofer.....	1 x Aluminum cone 5-1/4"	2 x Aluminum cone 5-1/4"	2 x Aluminum cone 5-1/4"
Midrange.....	N/A	N/A	N/A
Tweeter.....	JET folded ribbon	JET folded ribbon	JET folded ribbon
Crossover frequency.....	2.7kHz	100Hz / 3kHz	1kHz / 2.7kHz
Frequency range (IEC 268-5).....	46Hz - 30kHz	50Hz - 30kHz	34Hz - 30kHz
Sensitivity.....	85dB/2.83V/1m	87dB/2.83V/1m	87dB/2.83V/1m
Recommended amplifier power.....	30 to 150 wpc	30 to 200 wpc	30 to 250 wpc
Peak power handling.....	100W	120W	120W
Nominal Minimum impedance.....	6 Ohm / 4.8 Ohm	6 Ohm / 4.8 Ohm	6 Ohm / 4.8 Ohm
Finishes.....	Satin Black, Satin White	Satin Black, Satin White	Satin Black, Satin White
Accessories included	n/a	n/a	Binding post straps, outrigger feet, spikes and discs
Net Weight (each).....	14.73 lbs	22.44 lbs	36.20 lbs
Dimensions (HxWxD).....	08.52 x 08.06 x 12.54	08.34 x 07.79 x 24.41	08.52 x 08.06 x 42.07

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