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DALI OPTICON MANUAL



IN ADMIRATION OF MUSIC

TABLE 1




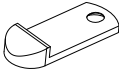



OPTICON	1	2	5	6	8	LCR	VOKAL
Speaker(s) pr. carton	2	1	1	1	1	1	1
 x8	✓	✓	✓	✓	✓	✓	✓
 x4			✓	✓	✓		
 x4			✓	✓	✓		
 x4			✓	✓	✓		
 x1			✓	✓	✓		
 x1			✓	✓	✓		
	✓	✓	✓	✓	✓	✓	✓

FIGURE 1A

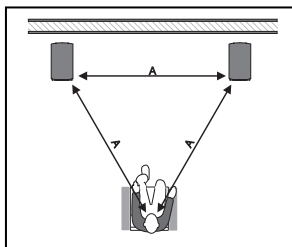


FIGURE 1B

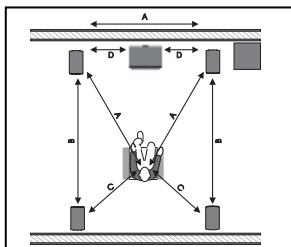


FIGURE 1C

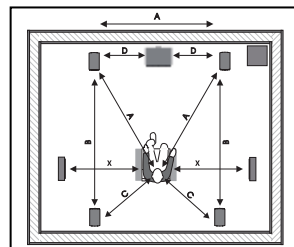


FIGURE 2

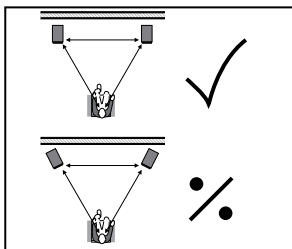


FIGURE 3

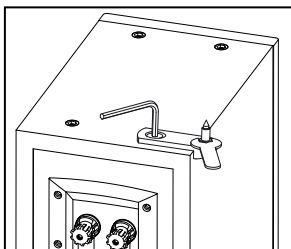


FIGURE 4

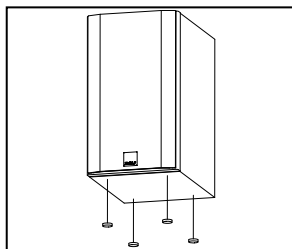


FIGURE 5

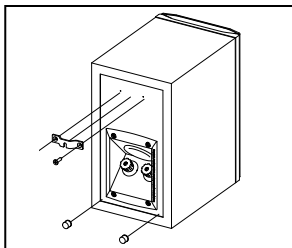


FIGURE 6

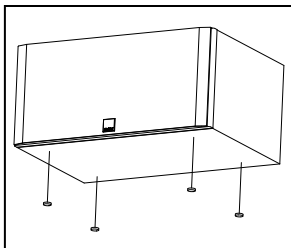


FIGURE 7

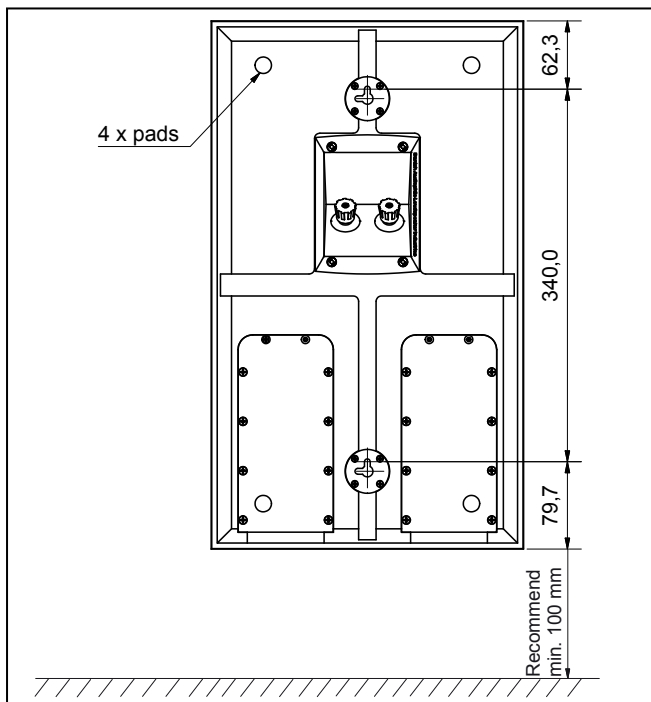


FIGURE 8

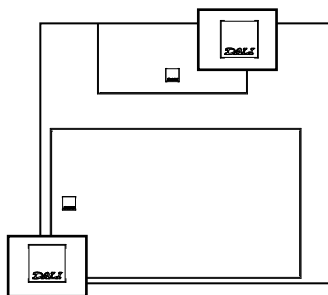


FIGURE 9

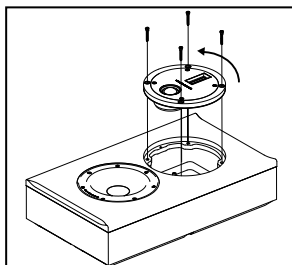


FIGURE 10

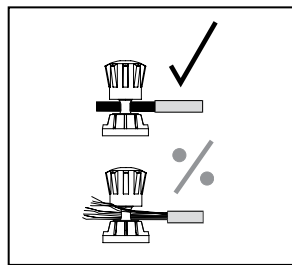


FIGURE 11A

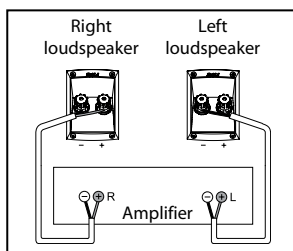


FIGURE 11B

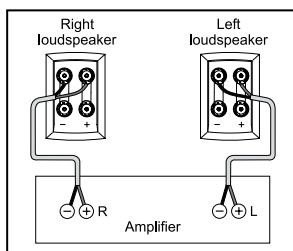


FIGURE 11C

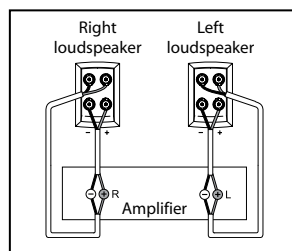
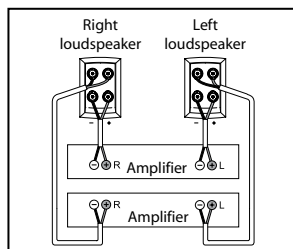


FIGURE 11D



CONTENTS

1.0 INTRODUCTION	6
2.0 UNPACKING	6
3.0 POSITIONING	6
4.0 CONNECTION	8
5.0 RUNNING-IN	8
6.0 CLEANING & MAINTENANCE	9
7.0 DISPOSAL	9
8.0 POWER AND ACOUSTIC PRESSURE	9
9.0 THE LISTENING ROOM	10
10.0 TECHNICAL SPECIFICATIONS	10

1.0 INTRODUCTION

Congratulations with your new DALI OPTICON loudspeaker. It is important to us that you're new DALI loudspeakers are set up and connected optimally. For this reason, we recommend that you read this manual and follow its instructions.

The manual contains instructions for setup and connection, as well as tips and advice on how to get the most out of your new loudspeakers. DALI is acclaimed around the world for unique loudspeakers built to our uncompromising standards for design and performance. The goal for every single DALI loudspeaker is always our foremost commitment: To create a listening experience in your home that will make you forget time and place.

Remember to sign up for the DALI newsletter at www.dali-speakers.com.

Enjoy!

2.0 UNPACKING

Be careful not to damage the contents when you unpack the parts. Depending on which DALI OPTICON model you have bought, different accessories come with the loudspeaker. Check that all parts are contained in the cardboard box (see Table 1). Keep the packaging materials should your speaker need to be relocated or serviced.

2.1 GRILLES

The speakers are delivered with the grille fronts already mounted when you unpack them. If you wish to remove the grille front, loosen it by gradually tugging at the plungers that hold it in place. It is important that all plunges are equally loosened before removing the front. Otherwise the grille may be damaged.

3.0 POSITIONING

To achieve the best results, the loudspeaker setup should be symmetrical round your favourite listening position, (see Figure 1A – 1C). We recommend that you experiment with the position of your loudspeakers – the sound quality will change depending on the loudspeaker position. For DALI OPTICON 1, OPTICON 2 and DALI OPTICON LCR the speakers should ideally be positioned, so that the tweeter is approximately at ear height when seated in your favourite listening position. DALI OPTICON 5, 6 and 8 are designed as floor standing speakers. They should be positioned minimum 20 cm (8") from the rear wall. DALI OPTICON 2 should likewise be positioned minimum 20 cm (8") from the rear wall. DALI OPTICON LCR is optimized for wall-mounting, but will also work well on a shelf. If wall mounted there should be at least 10 cm (4") to any surface underneath the speaker and if placed on a shelf there should be at least 10 cm (4") distance to the wall.

Objects positioned between the speaker and listening position might negatively affect sound quality. All DALI OPTICON speakers are designed to meet our wide dispersion principle, so they should not be angled towards the listening position, but be positioned parallel with the rear wall (see Figure 2). By parallel positioning, the distortion in the main listening area will be lowered and the room integration will be better. The wide dispersion principle also ensures that sound is spread evenly within a large area in the listening room.

3.1 DALI OPTICON 5, 6 and 8

The speakers are designed to stand on the floor, using spikes or rubber bumpers under the speakers, (see Figure 3+4). Be careful not to over tighten the contra nuts. Spikes or rubber bumpers can improve the sound quality. You can try both to hear what gives the best sound quality in your setup. Please be aware that spikes may damage the floor if it is not protected.

NOTE: On some floor surfaces and in some rooms, the use of spikes is a crucial aspect in obtaining the best result. The spikes (included) should be fastened loosely in the four aluminium feet, leaving the spike's nut only slightly tightened. Using the screws, mount the feet in the threaded holes on the bottom of the speaker. Push the feet against the cabinet before tightening the screws. Place the loudspeaker upright on its spikes on the floor, so that it stands steadily without rocking. Tighten the nuts, so that the four spikes sit tightly in the aluminium feet. These assembly and setup steps ensure stable mechanical coupling to the surface beneath (see Figure 3).

3.2 DALI OPTICON 2

DALI OPTICON 2 is optimized for stand mounting, but will also work well on a shelf. If positioned on a stand or shelf, the enclosed bumpers can be placed under the speaker for stable and vibration-free positioning (see Figure 4).

3.3 DALI OPTICON 1

There are several placement options for DALI OPTICON 1; on a stand, on a shelf, on a table-top or wall-mounting. For wall-mounting DALI OPTICON, you must use the included wall bracket. Before mounting the speaker on the wall, position the special bumpers - enclosed in the wall bracket packaging - on the bottom rear edge of the speaker (See figure 5). These bumpers ensure the correct distance from the wall and ensure secure mounting. If positioned on a stand or shelf, the enclosed bumpers can be placed under the speaker for stable and vibration-free positioning (see figure 4).

3.4 DALI OPTICON VOKAL

DALI OPTICON VOKAL is the dedicated centre channel and has been specially designed to be positioned close to the large surface of the TV screen. You can place it above or below the screen, on a stand or on a shelf. We recommend fitting the enclosed bumpers to ensure a stable, vibration free setup (see figure 6).

3.5 DALI OPTICON LCR

DALI OPTICON LCR is optimized for wall-mounting (see Figure 7), but can be used on a shelf or TV furniture.

DALI OPTICON LCR can be used as a left, right or centre speaker. If used in the horizontal position the hybrid tweeter module should be rotated so it stays vertical, which is important to preserve the wide dispersion and fine detail of the high frequencies. If used in the horizontal position, you can rotate the DALI logo on the front grille by lifting it up slightly and rotating it into the desired position (see Figure 8).

The ribbon tweeters are pre-configured for vertical positioning in the factory and if the speaker is used in the horizontal position, your authorized dealer or service facility can rotate the ribbon tweeter for you. To remove the ribbon tweeter from the cabinet, use a 3 mm Allen key (not included) to remove the four screws. When disassembled, rotate the ribbon tweeter 90 degrees. Insert the rotated ribbon tweeter and install it, using the four screws (Figure 9). Be careful not to over tighten the screws when assembling the speaker again.

If positioned on a shelf or TV furniture, the enclosed bumpers can be placed under the speaker (in both the vertical or horizontal position) for stable and vibration-free positioning (see Figure 4).

4.0 CONNECTION

Correct, tight connections to your amplifier are extremely important for your listening experience. Always use cables of the same type and length for left and right channels. We recommend using DALI CONNECT speaker cable, available from your dealer.

Connection in correct phase is a detail that is often ignored. The red (+) terminal of the amplifier must be connected to the red (+) terminal of the loudspeaker. The black (-) terminal of the amplifier must be connected to the black (-) terminal of the loudspeaker (see Figure 11A). Even a single loudspeaker connected out-of-phase in a stereo or surround installation will make the bass weaker and the stereo image unfocused.

For the optimal listening experience, the right loudspeaker (as seen from the listening position) must be connected to the amplifier output terminals marked “R” or “Right”. The left loudspeaker must be connected to the amplifier output terminals marked “L” or “Left”.

NOTE: Before connecting cables or changing any connections, ALWAYS turn off your amplifier.

NOTE: Make sure that bare conductors are tightly gripped by the terminals with no loose wires which, could cause a short circuit and damage the amplifier (see Figure 10).

NOTE: If you are using DALI OPTICON in a surround system, follow the instructions included with your surround amplifier.

4.1 SINGLE-WIRING vs. BI-WIRING/BI-AMPING

All DALI OPTICON speakers can be connected by means of a single speaker cable (see Figure 11A + 11B). However, DALI OPTICON 5, 6 and 8 are fitted with two pairs of terminals, allowing you the option of running two sets of cables to each speaker. The top terminal pair is internally connected to the crossover network's high frequency section. The bottom terminal pair is internally connected to the crossover network's bass section.

NOTE: When bi-wiring or bi-amping, ALWAYS remove the metal jumpers between the terminals before connecting cables (see Figure 11C + 11D).

For bi-wiring, connect two sets of loudspeaker cables, one to the top terminals and one to the bottom terminals of the speakers. At the amplifier end, connect both sets of loudspeaker cables to the same pair of terminals on the amplifier (see Figure 11C).

For bi-amping, connect two sets of loudspeaker cables, one to the top terminals and one to the bottom terminals. At the amplifier end, connect one set of loudspeaker cables to one amplifier, and connect the other set of cables to the second amplifier (see Figure 11D).

5.0 RUNNING-IN

Like any mechanical system, a loudspeaker requires a “running-in” period to perform at its best. You will experience a gradual increase in sound quality during the first period of use. The break-in period will vary depending on use and playback volume. You should expect up to 100 hours of playback until maximum performance is reached. Unlike other mechanical systems, the life-span of a loudspeaker is increased by normal, regular playback of music.

6.0 CLEANING & MAINTENANCE

Clean the cabinets with a soft, dry cloth. If the cabinets are dirty, wipe with a soft cloth dipped in all-purpose cleaner and then well wrung out. Be very careful when wiping the speaker cones, as they are very fragile. Grille fronts can be cleaned with a clothes brush and wiped with a well wrung, lint-free cloth and mild all-purpose cleaner.

6.1 AVOID DIRECT SUNLIGHT:

The surfaces of the speakers may fade or become discoloured over time when exposed to direct sunlight. Therefore avoid positioning the speakers in direct sunlight.

7.0 DISPOSAL

If you want to dispose of this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling. Private households in the EU member states, Switzerland, Liechtenstein and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one). If you reside in countries not mentioned above, please contact your local authorities for the correct method of disposal. By following this process, you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.

8.0 POWER AND ACOUSTIC PRESSURE

How loud a speaker is able to play and still sound good is completely dependent on the signal it has to reproduce. So, in practice, it is not possible to define an unequivocal level for use in comparing different speakers.

Lots of pure, undistorted output from a large amplifier is better than a distorted signal from a small amplifier stretched beyond its capacity. The signal from a distorting (clipping) amplifier contains much more high-frequency information than an undistorted signal, and therefore puts a heavy strain on the tweeter. Consequently, speakers are often damaged by small amplifiers, having to work too hard - and very rarely by large amplifiers, which are practically running idle. It is worth noting that turning tone controls above the neutral setting significantly burdens both speakers and amplifier. On a good sound system tone controls should only be used to compensate for poor recordings and not to permanently compensate for weaknesses elsewhere in the system.

Therefore DALI recommends that the tone controls generally be set to the neutral position, and you achieve your desired sound image through correct positioning of the speakers. Ensuring that you keep the volume low enough for the sound to remain clear and undistorted will minimize the strain on both speakers and amplifier.

All DALI loudspeakers are designed with linear impedance for an optimal amplifier load. The result is a significantly more open and detailed sonic image.

9.0 THE LISTENING ROOM

Every room has its own distinctive acoustics, which influence the way we experience sound from a speaker. The sound you hear consists of direct sound from the speakers and reflected sound from the floor, ceiling and walls. The latter will affect how you experience the sound. As a basic rule, try to avoid large, hard and reflective areas in the immediate vicinity of your loudspeakers as it will typically cause strong reflections, which might disturb the precision and spatial effect of the sound reproduction. Reflection might be suppressed by positioning e.g. a plant between the speaker and the reflecting surface. Soft items such as carpets, curtains etc. might help if the sound is too bright. Both the amount and quality of the deep bass depend on the size and shape of the room, and the position of the speakers. Positioning the speakers near a side or back wall will accentuate the bass. A corner location will accentuate it even more, but will also increase the reflections.

10.0 TECHNICAL SPECIFICATIONS

In Table 2 you will find the most common specifications for our speakers. Please have in mind that there are countless methods for measuring speakers. However, none of them tell you anything useful about how a speaker really sounds. Only your ears can decide whether one speaker sounds better than another. Like all our speakers, DALI OPTICON series is designed to reproduce music as honestly as possible.

Enjoy your new DALI OPTICON!

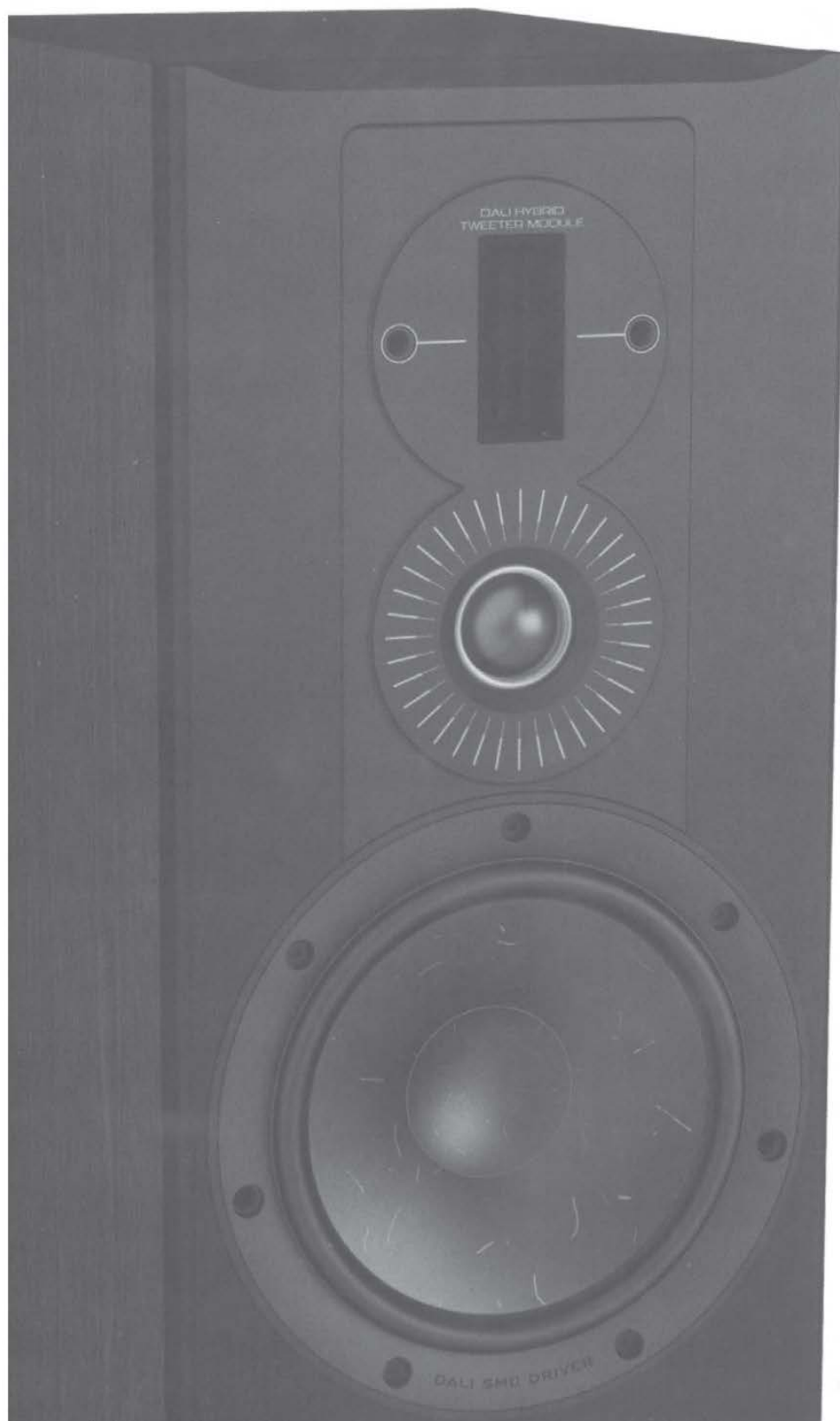


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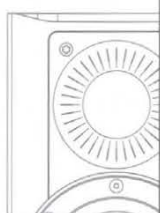



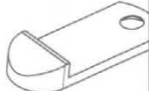



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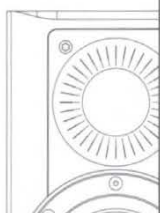


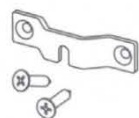
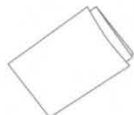

DALI OPTICON MK2

QUICK START GUIDE

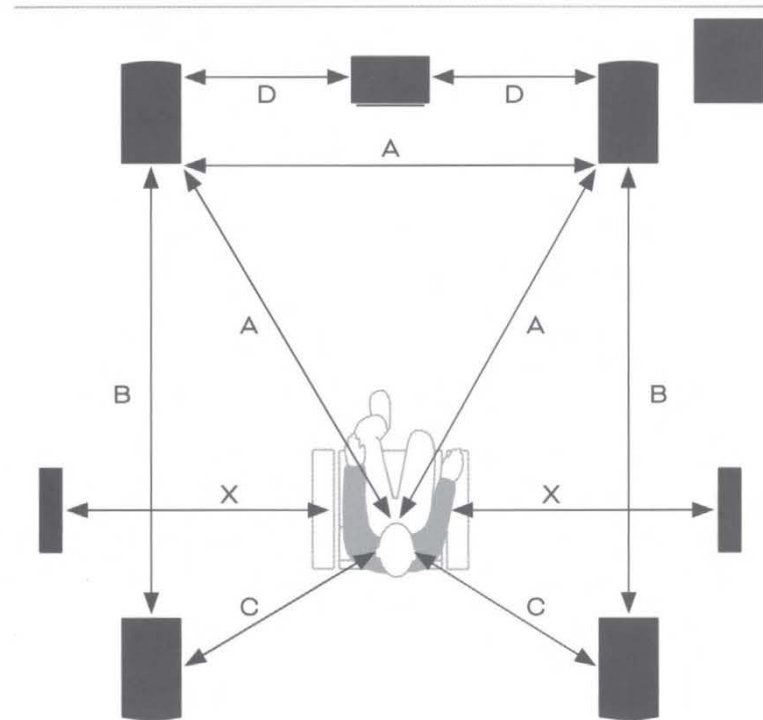
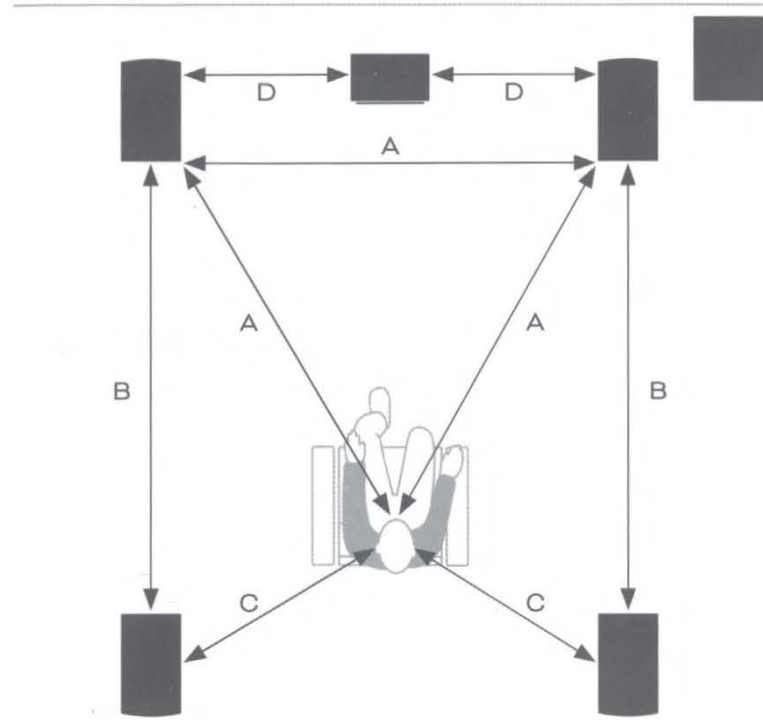
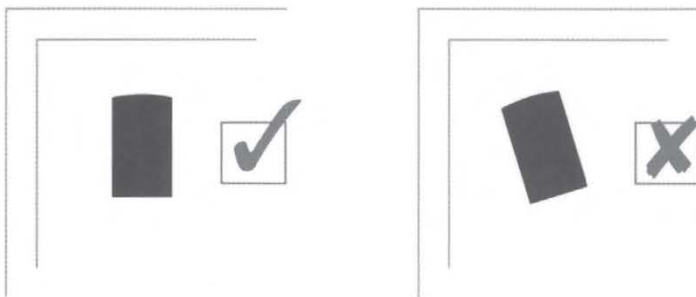
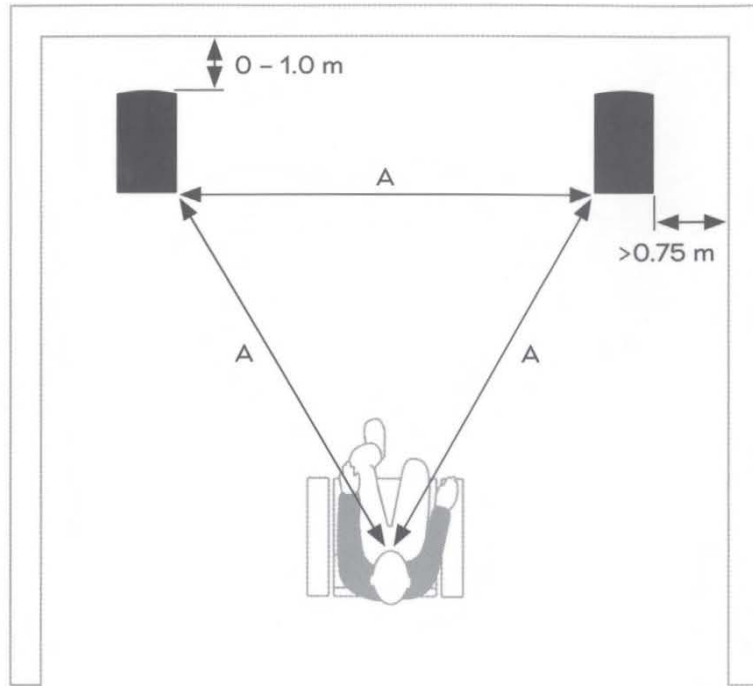


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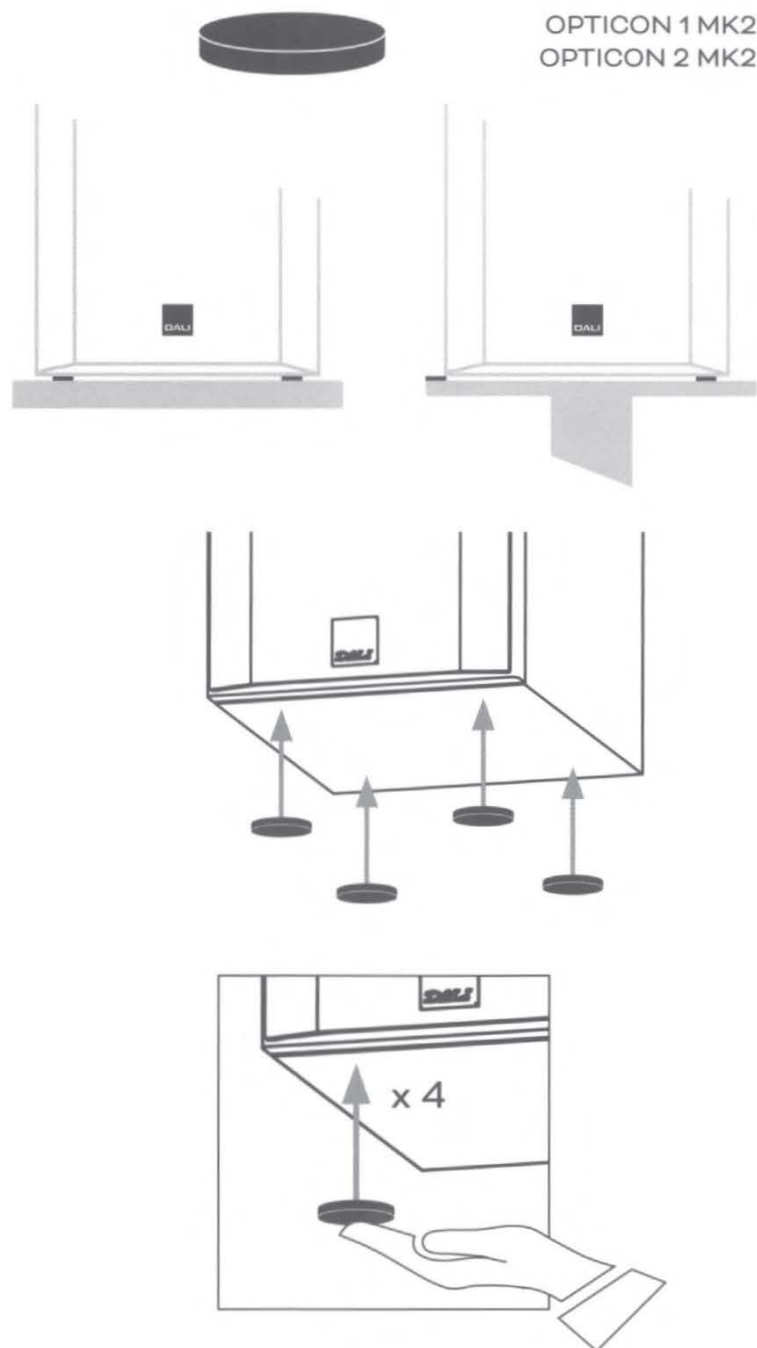
								
OPTICON 6 MK2	x1	x4	x4	x4	x4	x1	x1	x1
OPTICON 8 MK2	x1	x4	x4	x4	x4	x1	x1	x1

						
OPTICON 1 MK2	x2	x8	x8	x2	x1	
OPTICON 2 MK2	x1	x4			x1	
OPTICON LCR MK2	x1	x4			x1	x1
OPTICON VOKAL MK2	x1	x4			x1	

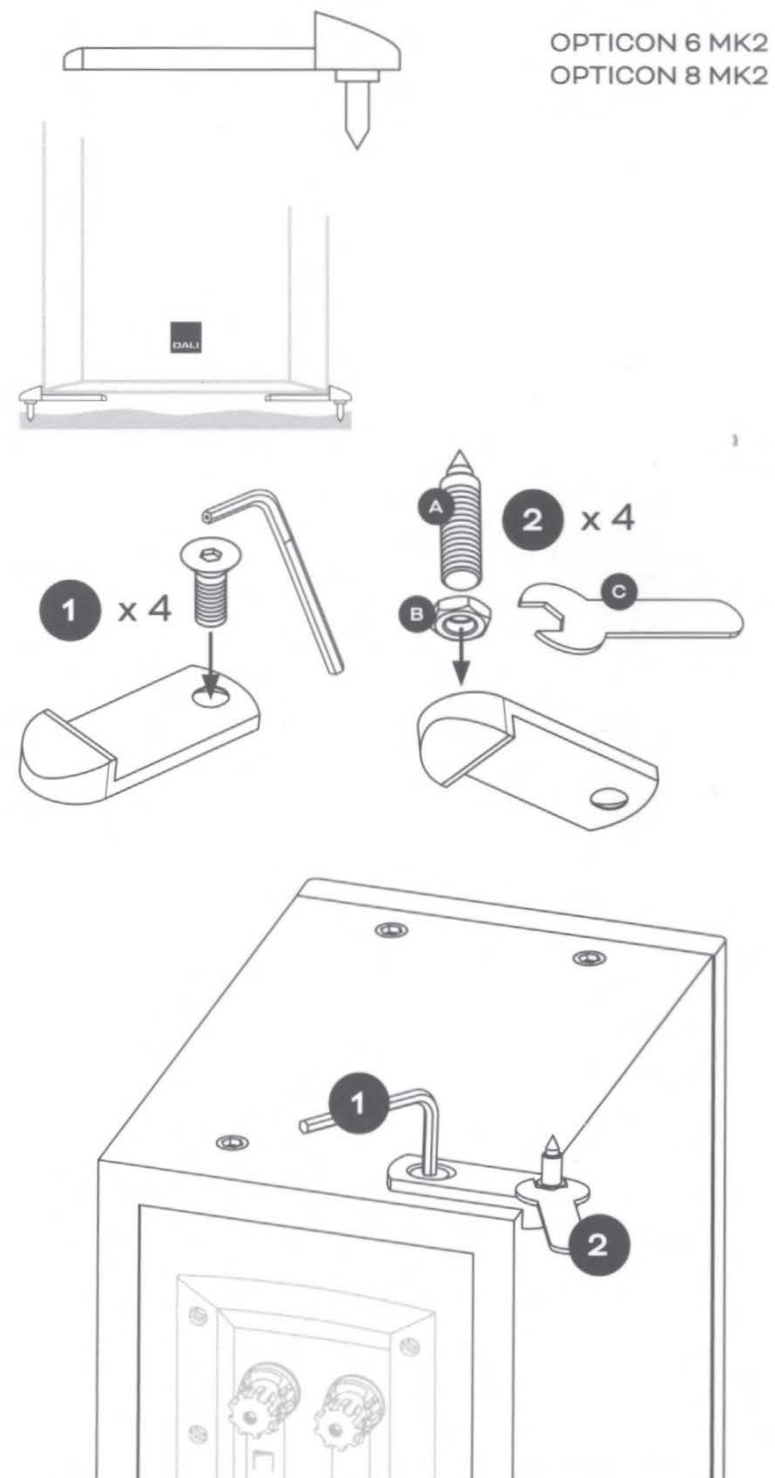
2. Position



3. Mounting (stand/shelf)

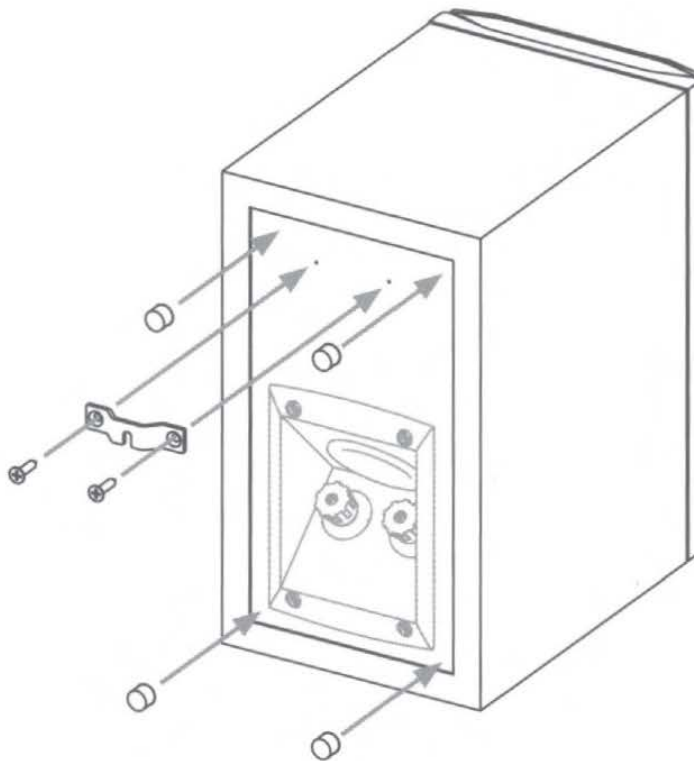


3. Mounting (floor)

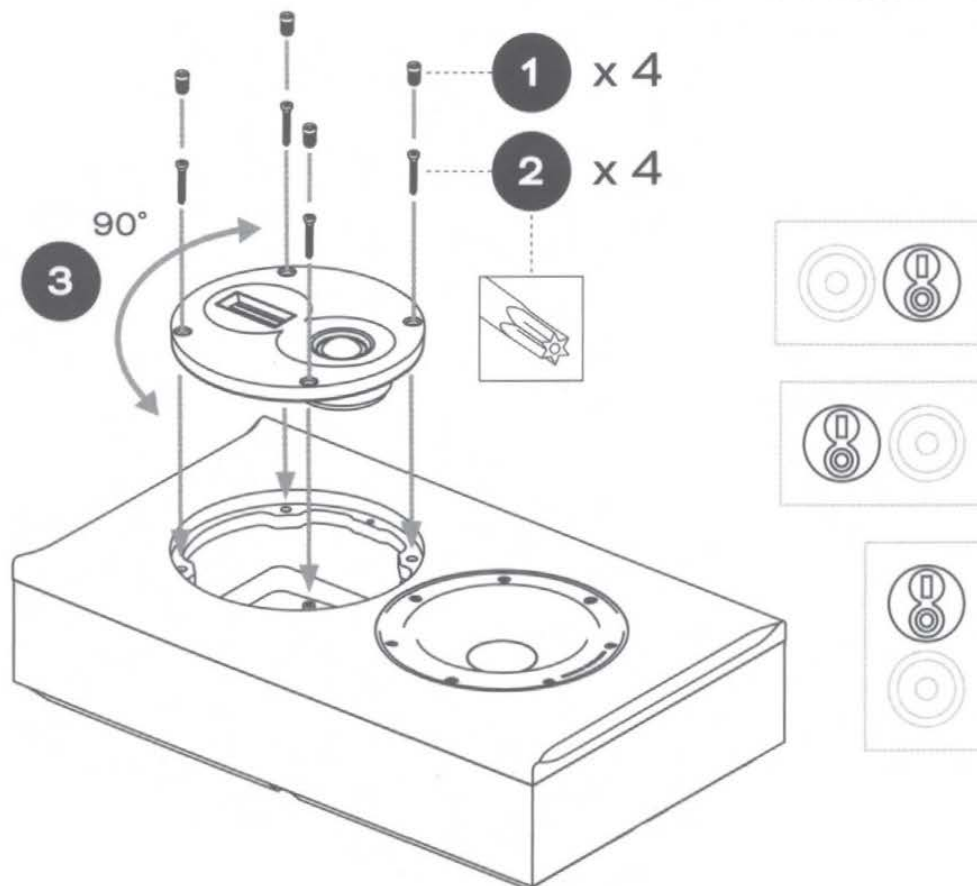


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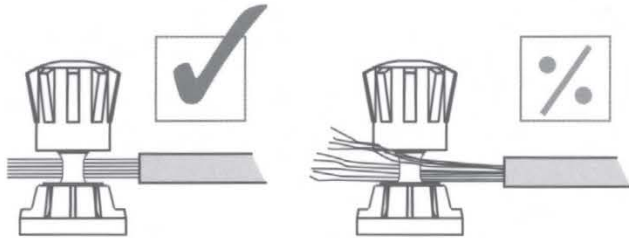
OPTICON 1 MK2



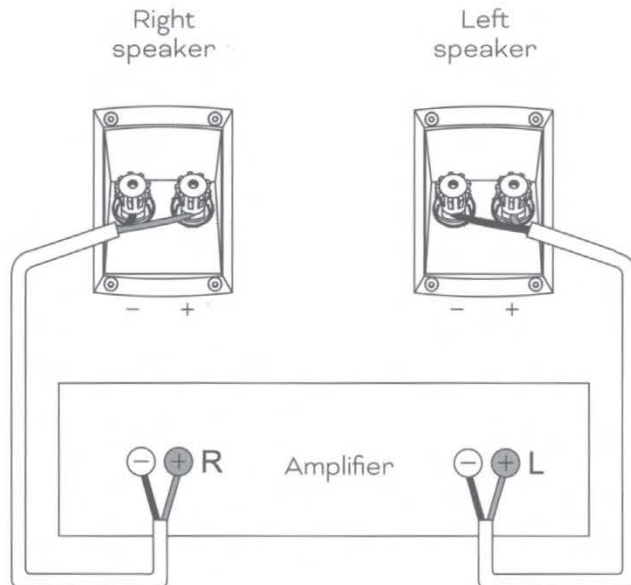
OPTICON LCR MK2



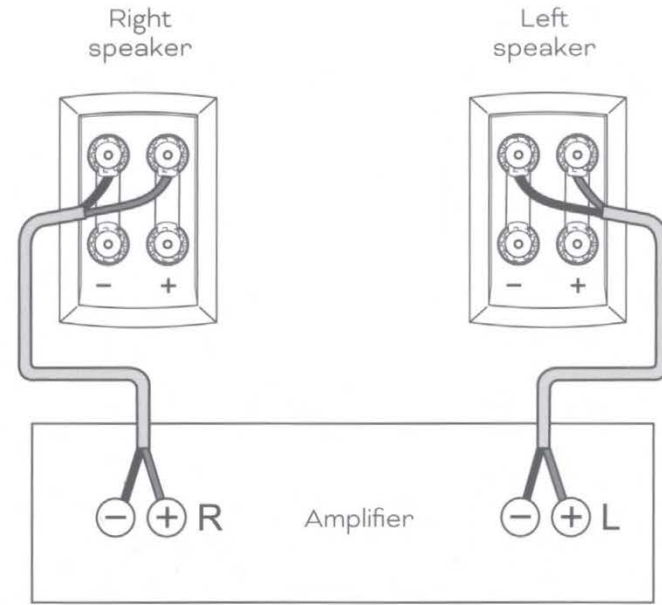
4. Wiring



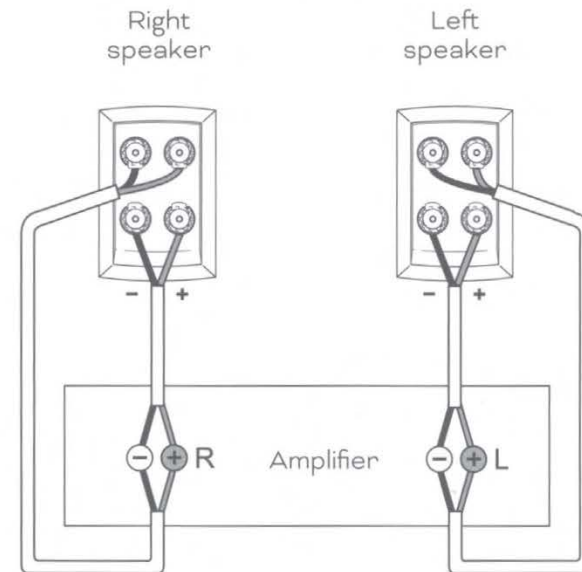
OPTICON 1 MK2
OPTICON 2 MK2
OPTICON LCR MK2
OPTICON VOKAL MK2



OPTICON 6 MK2
OPTICON 8 MK2



Bi-Wiring



OPTICON MK2

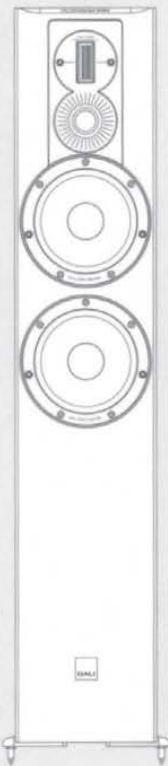
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OPTICON 2 MK2



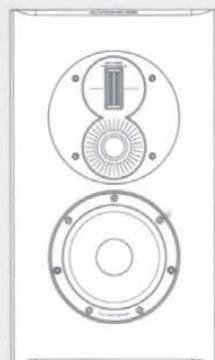
OPTICON 6 MK2



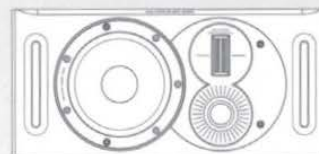
OPTICON 8 MK2



OPTICON LCR MK2

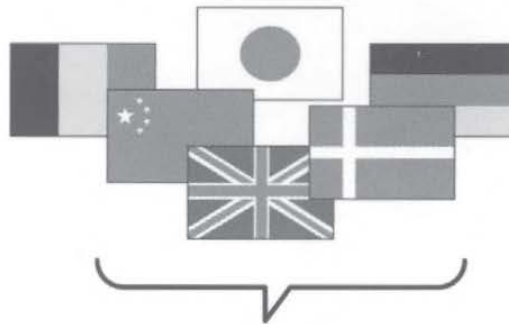


OPTICON VOKAL MK2



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