

95.44 (Front)

95.33 (Center)

95.24 (Sat)

95.22 (On-Wall)

Owners Manual



SOUND IN BALANCE

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Introduction

Introduction

We would like to thank you for buying XTZ 95 series

The XTZ 95.44/95.33/95.24/95.22 offers a large numbers of possibilities. In order to utilize your new speakers in the best possible way, please read this manual carefully before using your speakers for the first time. It often takes some effort and patience to make a HiFi system sound its best. If you don't have any previous experience from this kind of installations, please feel free to contact our free of charge support and we will help you. (See **Support** on the last page of this manual)



About XTZ

Philosophy

Our reference and ambition is to achieve a natural and true sound reproduction. At the same time, we always pay close attention to the fact that HiFi is always a matter of personal preference.

XTZ goals

To offer the best relation between price, performance and quality on the market.

Our concept:

- Developing the perfect compromise
- Cost efficient manufacturing in large volumes
- Product quality more important than marketing
- Reduce the number of middlemen

Contact

Website: www.xtz.se
E-post: info@xtz.se

Technical presentation

Cabinet design

The cabinet is constructed with a narrow baffle - not only an ecstatically neat shape but also an advantage in terms of sonic performance since the more stable structure effectively reduces resonances in the cabinet.

The cabinet is made from 18mm MDF board, which provides good sonic qualities.

The cabinet is further strengthened by internal bars, which in total ensures a very stable construction.

Tweeter Driver

A ribbon tweeter mounted in a horn provides superior transient response, a very flat frequency response and low distortion.

The ribbon cone is super light and only 18 microns thin. It is a sandwich construction of rosin-aluminium-rosin that has been hardened at 320 degrees Celsius.

The magnet system is a 2 row high-efficiency neodymium magnets in a moulded chassis of ceramic carbon steel. Fishbone shaped contactors in aluminium yields a low connection resistance and good heat derivation.

The driver has high power durability and handles frequencies up to 40000 Hz which makes it DVD-Audio and SACD-ready.

Woofers/ Midrange driver

We decided on a 5 1/2" driver, providing the best relation between power capacity, frequency response, transient response and price.

The High grade Polypropylene cone with electroplated titanium colour is extremely light but still very stiff and effectively reduces resonances. The rubber surrounding makes sure that no edge resonances are present.

The moulded metal basket is acoustically transparent and has high precision since the basket is shaped exactly due to the moulding process. This makes sure that the basket is very stable and efficiently reduces resonances. The basket is absolutely non-magnetic, which contributes to a higher efficiency of the driver.

A strong magnet combined with the light cone ensures high efficiency and a good transient response. High power handling and long excursion make sure you got enough power output.

95.33 have 2 pcs 6.5" midrange/woofers
95.24 have 1pc 6.5" midrange/woofer
95.22 have 1pc 5 1/4" midrange/woofer

Woofers	<p>We decided on a 6½” driver, providing the best relation between power capacity, frequency response, transient response and price.</p> <p>The High grade Polypropylene cone with electroplated titanium colour is extremely light but still very stiff and effectively reduces resonances. The rubber surrounding makes sure that no edge resonances are present.</p> <p>The moulded metal basket is acoustically transparent and has high precision since the basket is shaped exactly due to the moulding process. This makes sure that the basket is very stable and efficiently reduces resonances. The basket is absolutely non-magnetic, which contributes to a higher efficiency of the driver.</p>	95.44 have 2 pcs 6.5” woofers
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Crossover filter/ Terminal	<p>We have chosen a -12 dB crossover filter with good transient response and minimum phase shiftings. Only quality capacitors and low impedance coils are used.</p> <p>(Read more about filters on our website.)</p> <p>The terminal is gold plated and accepts both banana plugs and cable.</p> <p>The tweeter can be adjusted in 2 steps :0 and +3dB (95.22 do not have this adjustment.)</p>
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Preparations

Unpacking	<p>Carefully unpack the loudspeaker, and pay attention not to damage anything. If possible, please keep the cardboard box for future transports.</p> <p>If you find any damages, please contact your dealer immediately.</p>
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Accessories	<p>Bass reflex plugs</p> <p>Owners manual</p>	<p>95.44 – 2pcs bass reflex plugs 95.33 – 2pcs bass reflex plugs 95.24 – 1pc bass reflex plug 95.22 – No bass reflex plug</p>
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Tips for installation and placement

This chapter contains general information about installing and placing your speakers.

These are general hints and tips, so there may be exceptions.

What room will provide the best sound reproduction?

Even the most competent HiFi equipment will sound mediocre in the wrong environment. There are a few basic rules concerning loudspeaker placement and installation:

Reflections /Absorbing

Carpets, curtains and some furniture absorb midrange and high frequency sounds, which is preferable. In contrast, big empty areas reflect these frequencies producing a hard, unpleasant and blurry sound. Apart from colouring the sound, the stereo perspective will deteriorate.

Amplification of bass frequencies

If a loudspeaker is placed near a wall, ceiling or floor the lower frequencies will be amplified by the room. Sometimes this is desirable, sometimes not (it may lead to indistinct bass reproduction). The bass amplification becomes more obvious if the speaker is placed near a corner. Thus, for a clear sound the speaker should be placed at least 30 cm (about 12 inches) away from the wall. However, there are exceptions room this rule. For some types of walls/rooms it may be an advantage placing the loudspeaker closer to the wall. The 95.22 is designed to work hanging on a wall.

Furniture

Be aware that some furniture may vibrate, causing rattling noises at high sound levels.

Room dimensions

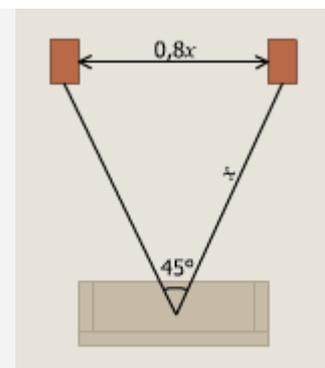
Quadratic rooms or rooms where the length is close to twice the width should be avoided. These rooms tend to cause unwanted resonance and room modes.

Placing your loudspeakers

The angle of the speakers according to the listener is of great importance.

Front speakers

In order to obtain the correct stereo perspective the loudspeakers should be placed symmetrically in front of the listener. The distance between the speakers should be roughly 80% of the distance between the listener and one of the speakers. Or put in another way, the angle seen by the by the listener should be about 45 degrees, as shown on the picture.



Angle of speakers

Either you can choose to place the speakers angled towards the listener, or place them angled straight

ahead. Depending on the room some speakers may sound better when angled, others may not.

Cables

Try to keep cables as short as possible. According to the electrical parameters, a long conductor will have a bigger influence on the sound than a short one. It may even work as an antenna, picking up noise and electromagnetic fields, causing disturbing hum etc.

Make sure all connectors are clean and not oxidized. All connections should be mechanically stable, both power, signal and speaker cables. Signal cables should be separated from cables carrying large currents.

Finally

Please remember that good sound reproduction is a matter of personal preference. You have to experiment and try different settings to achieve it.

We wish you the best of luck!

Mounting and connecting tips

Mounting options	<p>Normally 95.44/95.24/95.22 is placed near a wall. The wall behind affects the reproduction of the speaker and characteristics. Please take your time to try out the best placement.</p> <p>95.33 is normally placed below the movie screen or TV. This effect the sound in the same way as above.</p>	
Spikes	<p>The XTZ 95.44 is equipped with rubber feet, intended for vibration-muffling, making the use of spikes unnecessary.</p>	<p>95.33/95.24/95.22 have no rubber feet</p>
Correct phase when connecting	<p>Always make sure the speaker is connected in respect of the correct phase. The + terminal of the amplifier should be connected to the + terminal of the speaker.</p>	<p>If the speaker is incorrectly connected to the amplifier, there is no risk of damage or danger. However, the sound will not be reproduced correctly.</p>
Overloading	<p>After playing at a very high sound level for a prolonged period of time there is a risk of damaging the speakers and/or the amplifier.</p>	
Initial use of your speakers	<p>The drivers of a loadspeaker require about 50 to 100 hours of use before the full quality level is reached. During this time the speaker can be used normally.</p>	

Sound settings

Room Tuning – Mechanical adjustment of the boundary frequency

By putting the supplied bass reflex plugs into the port, you can alter the lower boundary frequency of the XTZ 95 series. Also, the treble level might be adjusted in order to adapt the speaker to your listening room/ preference.

95.44

The upper bass reflex port is longer than the one

Deep bass character

With 1 bass plug in the lower port, the deepest bass is achieved. This can be suitable for smaller rooms

”Quick bass character”

With only 1 bass plug in the upper port, the quicker bass is achieved. This can be suitable for bigger rooms, where the lower frequencies normally are amplified by the room

Sealed box (Neutral character)

With all bass plugs in the port, the speaker is a closed box and gives a neutral character

95.33

Left bass port is longer than the Right port .

Deep bass character

With 1 bass plug in the right port, the deepest bass is achieved. This can be suitable for smaller rooms

”Quick bass character”

With only 1 bass plug in the left port, the quicker bass is achieved. This can be suitable for bigger rooms, where the lower frequencies normally are amplified by the room

Sealed box (Neutral character)

With all bass plugs in the port, the speaker is a closed box and gives a neutral character

95.24

”Quick bass character”

Without any bass, the quicker bass is achieved. This can be suitable for bigger rooms, where the lower frequencies normally are amplified by the room

Sealed box (Neutral character)

With all bass plugs in the port, the speaker is a closed box and gives a neutral character

95.44 ,95.33 and 95.24

Tweeter level

The level on the tweeter can be adjusted in two levels. This is done by a jumper on the speaker terminal.



These adjustments and settings depend on the size and shape of the room, and of course your own preferences. We strongly suggest you take your time to try out the optimum settings.

95.22 have no bass port and do not have this tuning option.

Technical specifications

Type of construction	<p>95.44 3-way bass reflex box which is mechanically adjustable in four different modes (Room-Tuning). Tweeter is adjustable in 2 levels</p> <p>95.33 2-way center speaker adjustable to closed box (Room-Tuning). Tweeter is adjustable in 2 levels</p> <p>95.24 2-way speaker adjustable to closed box (Room-Tuning). Tweeter is adjustable in 2 levels</p> <p>95.22 2-way speaker in a closed box</p>	
Dimensions	<p>95.44 - 1080 x 218 x 350 mm (HxWxD)</p> <p>95.33 - 218 x 600 x 288 mm (HxWxD)</p> <p>95.24 - 384 x 218 x 288 mm (HxWxD)</p> <p>95.22 - 375 x 220 x 130 mm (HxWxD)</p>	95.44 without feet
Weight	<p>95.44 - 24,5 kg/ pc</p> <p>95.33 - 12,5 kg /pc</p> <p>95.24 - 9kg/ pc</p> <p>95.22 - 5.2kg/ pc</p>	
Magnetically shielded	No	
Connectors	<p>Gold plated/Banana plug/Pole screw</p> <p>95.44 Tri-Wiring</p> <p>95.33 Bi-Wiring</p> <p>95.24 Bi-Wiring</p> <p>95.22 Single</p>	
Power handling capacity	<p>95.44 - 300 W Short term(150 W Long term) IEC 268-5</p> <p>95.33 - 250 W Short term(125 W Long term) IEC 268-5</p> <p>95.24 - 200 W Short term(100 W Long term) IEC 268-5</p> <p>95.22 - 150 W Short term(80 W Long term) IEC 268-5</p>	
Impedance	4-8 Ohms	

Service & support

Where to send the item?

Always contact your dealer in case you need to service your loudspeaker.

If you have any questions about service/support please contact us at

support@xtz.se

Website: **www.xtz.se**

Always pack the product carefully. Unfortunately, damages during transportation are very common. In case the packing is insufficient, the transportation company will not compensate any damages. Please be sure to enclose a copy of your receipt, and a short description of the problems/defects.

Support

Contact our free of charge support regarding service or if you need advice during installation.

If you have any questions about service/support please contact us at support@xtz.se

Please include your phone number, and we will call you back.

Website: **www.xtz.se**

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