

ZxA5

ZxA5 Series Loudspeaker Owner's Manual



*ZxA5-60
ZxA5-90*



ZXA5

Important Safety Instructions



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
AVIS: RISQUÉ DE CHOC ELECTRIQUE. NE PAS OUVRIR.

WARNING: CONNECT ONLY TO MAINS SOCKET WITH PROTECTIVE EARTHING CONNECTION.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped
14. To completely disconnect AC power from this apparatus, the power supply cord must be unplugged.
15. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on this apparatus.
16. The AC plug of the power supply cord shall remain readily operable.

Caution: Do not exceed the marked rating of the AC Output.

Example: If each additional unit is rated 3A, a maximum of 3 units can be connected for a total of 9A.



Management of WEEE (waste electrical and electronic equipment) (applicable in Member States of the European Union and other European countries with individual national policies on the management of WEEE) The symbol on the product or on its packaging indicates that this product may not be treated as regular household waste, but has to be disposed through returning it at a Telex dealer.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



The asterisk within an equilateral triangle is intended to inform the user to necessary installation or removal instructions regarding equipment or hardware use relating to the system.

Important Service Instructions

CAUTION: These servicing instructions are for use by qualified personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the Operating Instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

1. Security regulations as stated in the EN 60065 (VDE 0860 / IEC 65) and the CSA E65 - 94 have to be obeyed when servicing the appliance.
2. Use of a AC separator transformer is mandatory during maintenance while the appliance is opened, needs to be operated and is connected to the AC.
3. Switch off the power before retrofitting any extensions, changing the AC voltage or the output voltage.
4. The minimum distance between parts carrying AC voltage and any accessible metal piece (metal enclosure), respectively between the AC poles has to be **3 mm** and needs to be minded at all times.
The minimum distance between parts carrying AC voltage and any switches or breakers that are not connected to the AC (secondary parts) has to be **6 mm** and needs to be minded at all times.
5. Replacing special components that are marked in the circuit diagram using the security symbol (Note) is only permissible when using original parts.
6. Altering the circuitry without prior consent or advice is not legitimate.
7. Any work security regulations that are applicable at the location where the appliance is being serviced have to be strictly obeyed. This applies also to any regulations about the work place itself.
8. All instructions concerning the handling of **MOS** - circuits have to be observed.

Note:  SAFETY COMPONENT (HAS TO BE REPLACED WITH ORIGINAL PART ONLY)



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ZxA5 Series Owner’s Manual

Thank you for choosing the Electro-Voice® ZxA5 series loudspeaker system. This system is the culmination of EV’s experience in transducer design. Please take time to consult this manual so that you can understand all the features built into your EV system and fully utilize all its performance capabilities.

ZXA5

Safety First

When setting up, installing and using the Electro-Voice® ZxA5 speaker system, there are a number of precautions that you should follow:

- When Electro-Voice® ZxA5 speakers are used for portable applications in which they will be positioned directly on the floor, make sure that the floor or stage is solid and secure.
- Electro-Voice® ZxA5 speakers include 1-3/8 inch stand mounts to allow mounting on tripod stands.

Make sure to:

- Check the specifications of the speaker stand to be certain it is capable of supporting the weight of the speaker.
- Check that the speaker stand is placed on a flat, stable surface and be sure to fully extend the legs of the stand. Do not try to make the stand “taller” and compromise its structural integrity.
- Route cables and position the stand so that performers, production crew and audience members will not trip over the stand or cables and pull the speaker system over. Secure cables with wire ties or tape whenever possible.
- Do not attempt to suspend more than one speaker on a stand designed for a single speaker
- Unless you are confident that you can safely handle lifting the weight of the speaker onto the stand, ask another person to help you place it.
- If you intend to hang or fly the ZxA5 system, only do so safely with the correct hardware and accessories.



WARNING: *Suspending any object is potentially dangerous and should only be attempted by individuals who have a thorough knowledge of the techniques and regulations of rigging objects overhead. Electro-Voice® strongly recommends that ZxA5 speakers be suspended taking into account all current national, federal, state and local regulations. It is the responsibility of the installer to ensure that ZxA5 speakers are safely installed in accordance with all such regulations. If ZxA5 speakers are suspended, Electro-Voice® strongly recommends that the system be inspected at least once a year. If any sign of weakness or damage is detected, remedial action should be taken immediately. There are data sheets for each EV Suspension and Array Kit that should also be consulted prior to suspending speakers.*



• Electro-Voice® does not recommend use of ZxA5 speakers outdoors without protection from rain or in high moisture environments.



• Electro-Voice® ZxA5 loudspeakers are easily capable of generating sound pressure levels sufficient to cause permanent hearing damage to anyone within normal coverage distance. Caution should be taken to avoid prolonged exposure to sound pressure levels exceeding 90 dB.

Note: This is a Class A product. In a domestic environment this product may cause radio interferences in which case the user may be required to take adequate measures.

Description

The Electro-Voice® ZxA5 high powered loudspeakers are fully integrated audio systems with carefully matched electronics and transducers. These products make it easy to setup a high quality sound system quickly with a minimum amount of cables and external electronics. You won't find a speaker system available on the market that offers the unbelievable sound, incredible flexibility and tremendous output capability of the ZxA5 anywhere near it's size and weight.

System Features - ZxA5

- Integrated Amplifier with 1000W LF, 250W HF
- Selectable 100 Hz High Pass
- XLR and 1/4" TRS Input Connector
- XLR Output Connector
- PowerCon Connector with Slave Through
- DVX3150 15" LF Transducer with Forced Air Cooling
- ND2 2" Voice Coil, 1" Exit Neodymium Compression Driver
- Two Models: 60° x 60° or 90° x 50° Coverage Patterns
- High Sensitivity, 133 dB Maximum SPL
- Adjustable Monitor Angle (45° or 55°)
- 3 Anchor Plates for Single Stud Fittings and 10 Integral Suspension Points
- Full Line of Accessories

System Coverage - ZxA5

Coverage Patterns and Applications

ZxA5-60 60° x 60° coverage for long-throw and cluster applications

ZxA5-90 90° x 50° for wider coverage or shorter distances

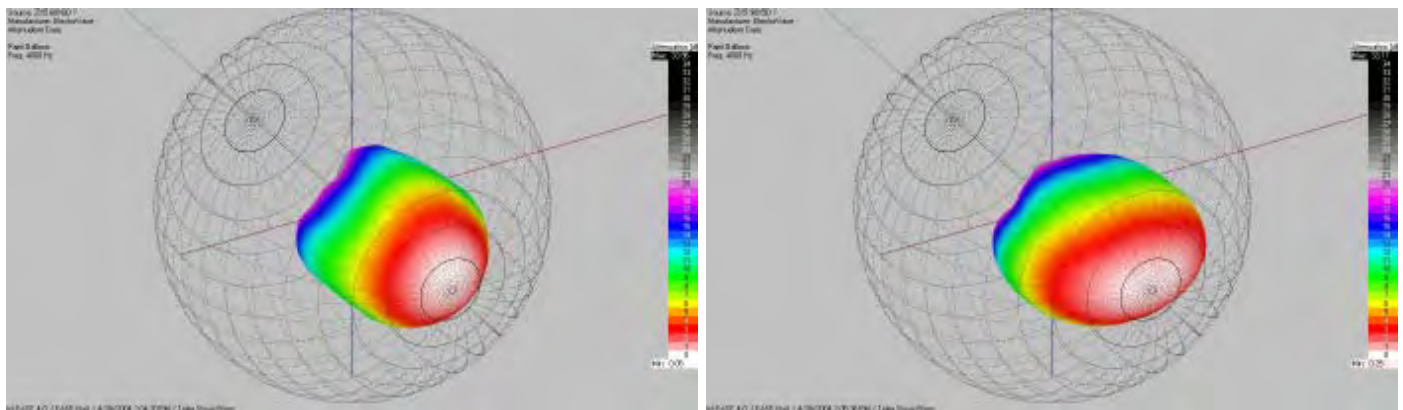


Figure 1a:

3D EASE Directivity Balloon,
ZxA5-60, 60° x 60° Coverage

Figure 1b:

3D EASE Directivity Balloon,
ZxA5-90, 90° x 50° Coverage

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System Setup - ZxA5

To get the ZxA5 into operation as quickly as possible, please observe the following steps and precautions:

- Plug the 3-terminal PowerCon AC cable into a grounded line receptacle. Extension cords can be used to lengthen the AC cable as necessary but make sure that they are 3-conductor 14 gauge or greater, and that they are properly grounded to avoid electrical hazards and extraneous noise.
- Be sure that the ZxA5 is plugged into an AC power source that is capable of supplying the correct voltage. If the line voltage drops too much, the built-in amplifiers won't be able to develop their rated power and sound quality will suffer. Under high signal conditions, the 120V ZxA5 amplifier can draw 3 - 4 amps of current (2 amps at 240V). That means that no more than (3) ZxA5 systems should be plugged into a single 15 amp electrical service. Be cautious of what else is plugged into the same electrical service line to avoid electrical problems and poor performance.

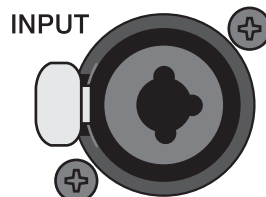


CAUTION: Before turning the power on, make sure that the level controls are down to avoid transients or unexpected loud sound.

ZxA5 Amplifier

Input Signal Connector

Electronically balanced inputs for the connection of high-level signal sources such as mixers, signal processors, etc. Establishing the connection is possible via a combination 1/4" TRS and XLR jack. Balanced connection is recommended to prevent noise or HF-interference.



CAUTION: Before connecting or disconnecting any plugs, make sure to set the level control to its counterclockwise stop, which prevents the system and audience from contact pops and noise.

Output Signal Connector

Output is full bandwidth pass through.

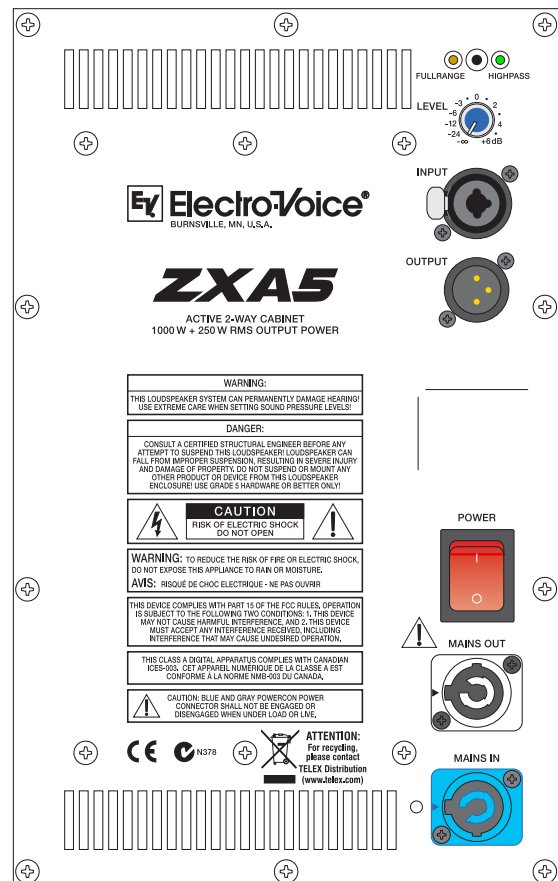
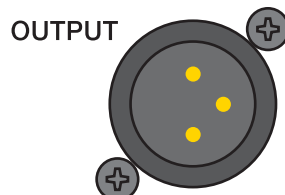


Figure 2:
Amplifier Panel, ZxA5

ZxA5 Amplifier (cont')



Crossover Mode Switch

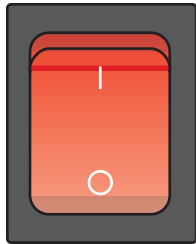
Selects between 40 Hz highpass filter for Fullrange use, and 100 Hz highpass filter for use with a subwoofer. It is not recommended that you use a ZxA5 in Fullrange mode with subwoofers.



Level

This control sets the output level of the ZxA5 in a range between $-\infty$ dB and +6dB. The internal power amplifier provides a nominal input sensitivity of +6dBu.

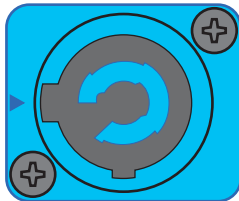
POWER



Power Switch

AC switch for switching the ZxA5's power ON or OFF. The switch lights after turning the power ON. If the switch is not lit upon turning the power on, make sure that the AC cord is correctly connected. If the AC cord is correctly connected and the AC switch does not light upon power-on, please contact your local dealer.

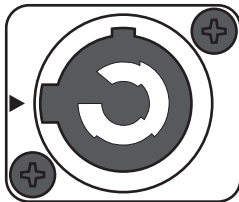
MAINS IN



Mains In

AC connection is established via a PowerCon connector. A 15' (5m) long AC cord with PowerCon plug is supplied.

MAINS OUT



Mains Out

The PowerCon AC out socket allows the connection of additional ZxA5 Systems. To prevent AC network overload, connecting more than (3) ZxA5 Systems to a single AC outlet (10A - 16A) is not recommended.



CAUTION: Blue and grey PowerCon power connector shall not be engaged or disengaged when under load or live.



CAUTION: This appliance has no user-serviceable parts inside. Leave any servicing and maintenance to qualified service technicians only.

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Suspending ZxA5 Speaker Systems

ZxA5 enclosures have 5 steel anchor points internally mounted on the top, bottom, and rear. Single stud fittings can be attached to these anchor plates and used as suspension points. Each of these anchor plates also has a M8 thread to accept rated forged M8 shoulder eyebolts. In addition to these points there are five additional M8 threaded points; two on the handle side, and three on the rear. These points can be used for suspending ZxA5s vertically, horizontally, individually, in clusters, or to attach to EV mounting brackets. Working load limits for the ZxA5 and fittings are shown in Figure 3.

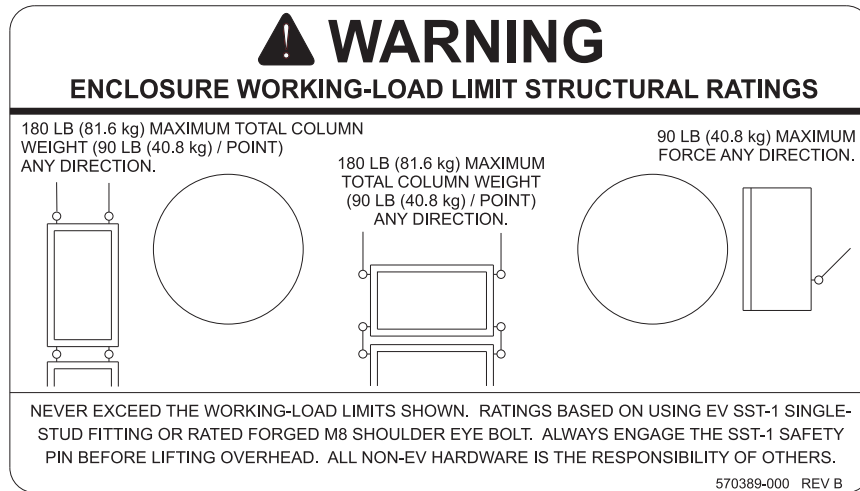


Figure 3:
Working Load-Limit Rating of ZxA5 Speaker System

Prior to each use, inspect the grid assembly or suspension point(s) and associated hardware for any cracks, deformations, broken welds, corrosion, missing or damaged components which could reduce the grid assembly or suspension point(s) strength. Replace any damaged hardware. Never exceed the limitations or maximum recommended load intended for grid assembly design or suspension point(s). As an added safety measure, it is suggested that the user install a second suspension point back to the grid (or building structural supports). This redundant safety point should have as little slack as possible (less than one inch is preferable).

Prior to each use, inspect the loudspeaker enclosures for any cracks, deformations, missing or damaged components, which could reduce enclosure strength. Inspect the bracket assembly on the enclosures for any cracks, deformations, missing or loose screws which could reduce the flying hardware strength. Replace any loudspeaker systems that are damaged or missing hardware. Never exceed the limitations or maximum recommended load for the ZxA5 systems.

Suspending ZxA5 Speaker Systems (cont')

ZxA5 M8 Suspension Points

Metric (M8) inserts are equipped on the top and bottom of the enclosure, around the handle, and on the back of the enclosure for a total of 10 points. The inserts can be used to attach forged eyebolts or rigging brackets.

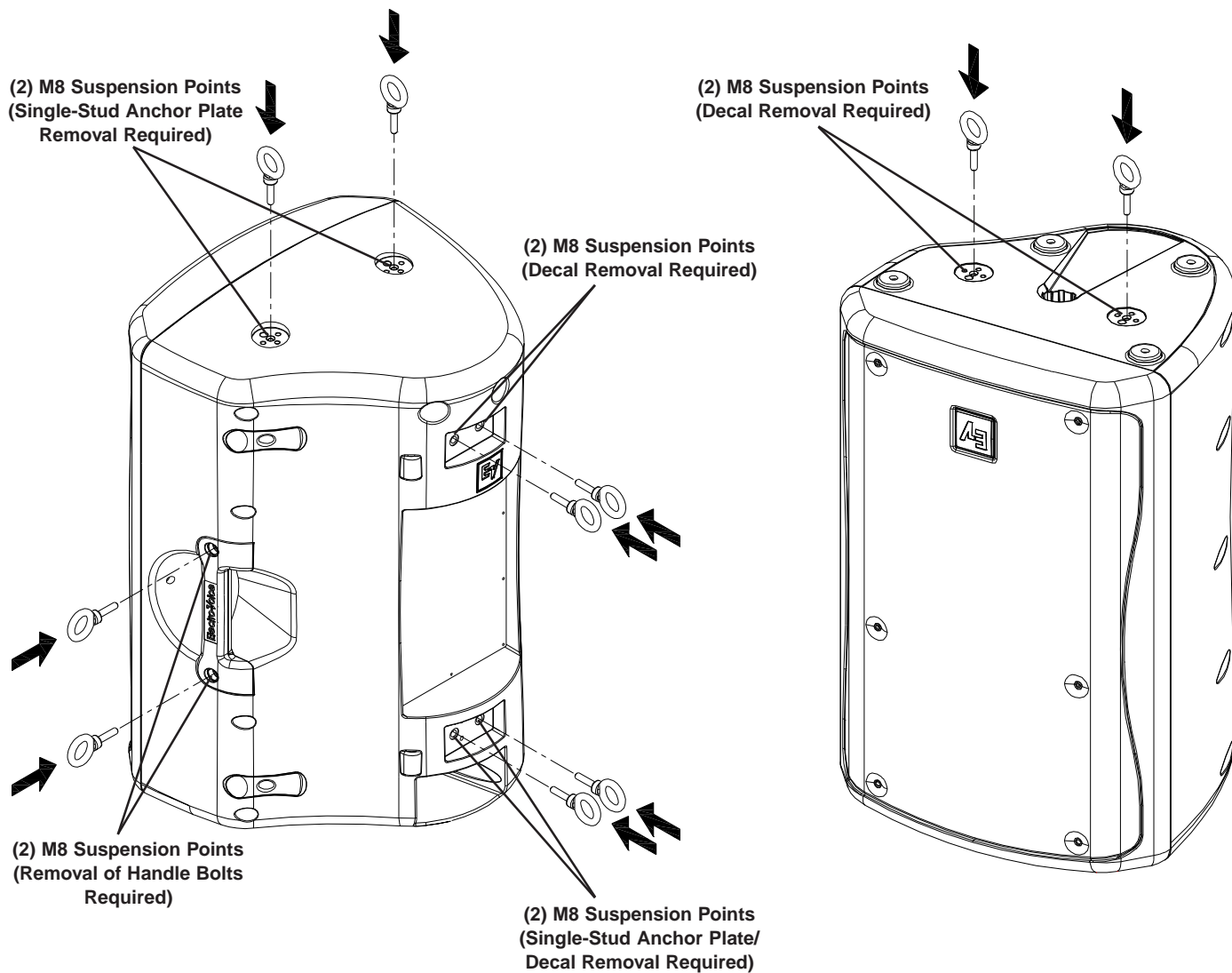


Figure 4a:
ZxA5 M8 Suspension Points (Top, Handle, Rear)

Figure 4b:
ZxA5 M8 Suspension Points (Bottom)

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Suspending ZxA5 Speaker Systems (cont')

Suspending the ZxA5 using optional Electro-Voice Single-Stud Rigging Kits

The ZxA5 is shipped with three single-stud anchor plates for rigging with single-stud rigging. There are two more locations on the bottom to mount single-stud anchor plates for flying the ZxA5 upside-down or horizontally. All of these locations can facilitate M8 Eyebolts if desired as well.

Figure 5:

Suspending the ZxA5 Using Included Single-Stud Anchor Plates

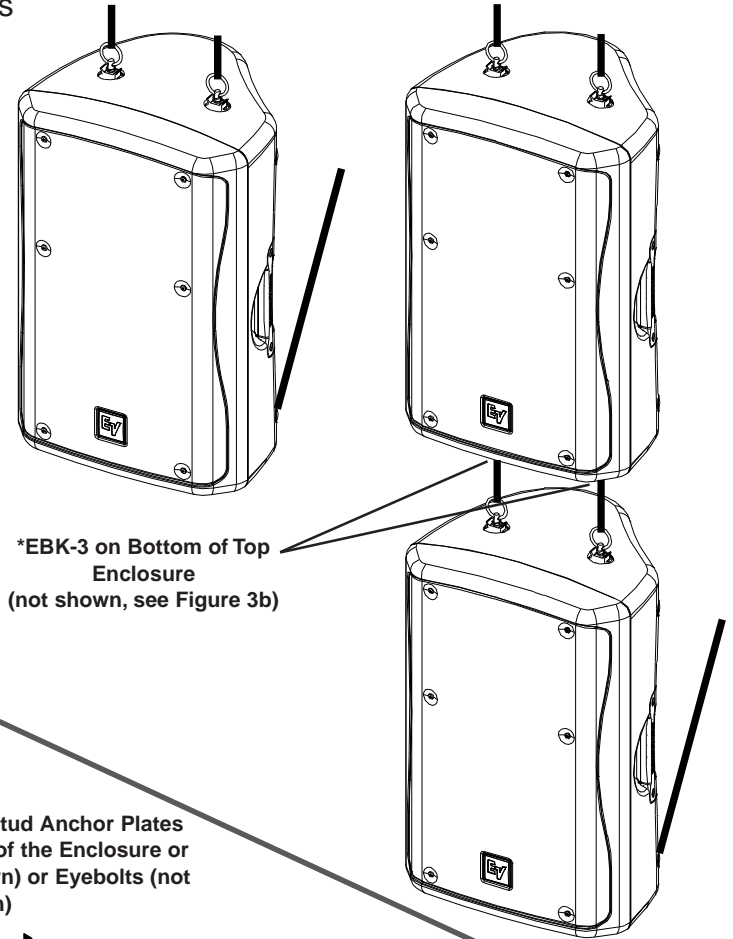
Kit Used (Left View) -

SSK-1 Single-Stud Rigging Kit (x1)

Kits Used (Right View) -

SSK-1 Single-Stud Rigging Kit (x2)

EBK-3 Forged M8 Eyebolt Kit (x1)*



Step 1: Remove Decals

Step 2: Attach Single-Stud Anchor Plates Removed from the Top of the Enclosure or optional RK-Z Kit (shown) or Eyebolts (not shown)

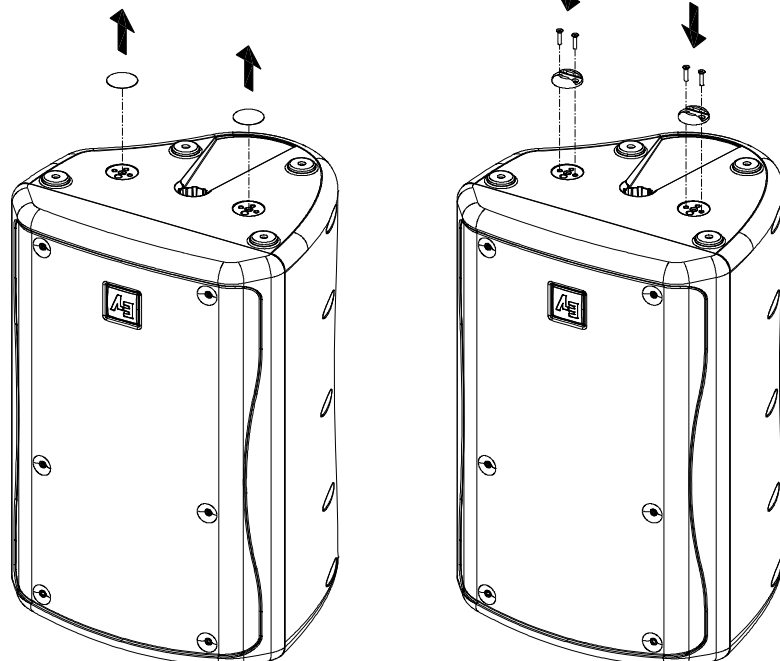


Figure 6:

Suspending the ZxA5 Upside-Down Using Included Single-Stud Anchor Plates and Single-Stud Rigging Kit

Kits Used -

RK-Z Single-Stud Anchor Plate Kit (x1)

SSK-1 Single-Stud Rigging Kit (x1)

Suspending ZxA5 Speaker Systems (cont')

Horizontal Suspension of the ZxA5

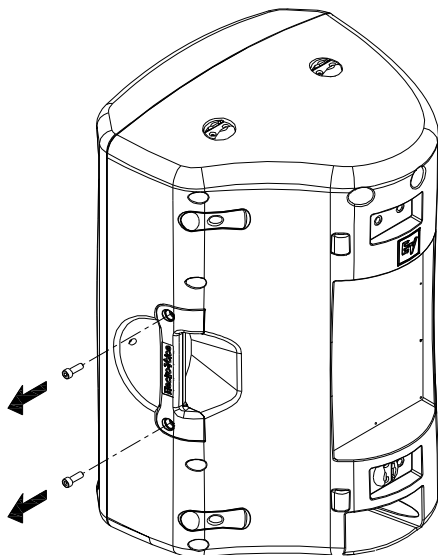
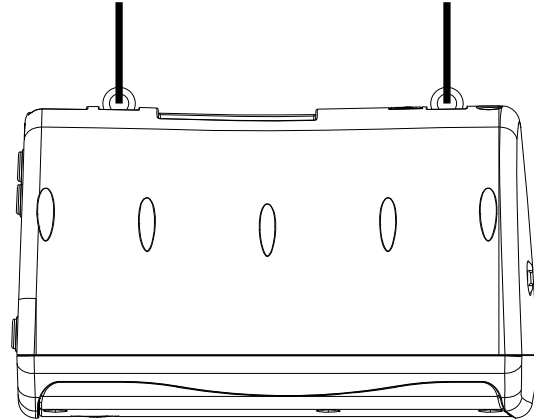
The ZxA5 is capable of being suspended horizontally from the side (handle) or downward from the rear with the use of M8 Eyebolts.

Figure 7:

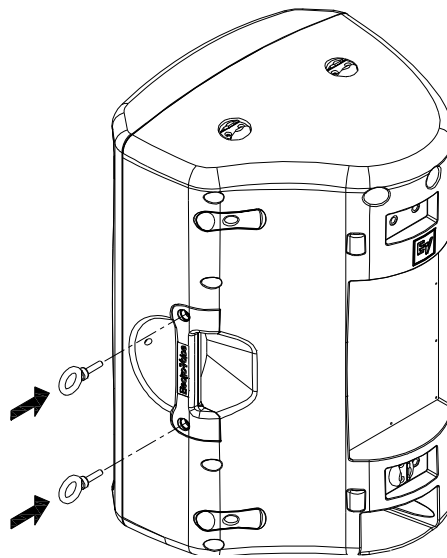
*Suspending the ZxA5 Downward from Rear Using Optional Forged Eyebolt Kit**

Kit Used - EBK-3 Forged M8 Eyebolt Kit (x1)

*Note - When suspending from the rear M8 suspension points, it is recommended that the (2) left M8 suspension points are used on the rear of the enclosure for best weight distribution in relation to enclosure's center of gravity.



Step 1: Remove Handle Bolts



Step 2: Attach Eyebolts

Figure 8:

Assembling Eyebolts to Handle for Horizontal Suspension

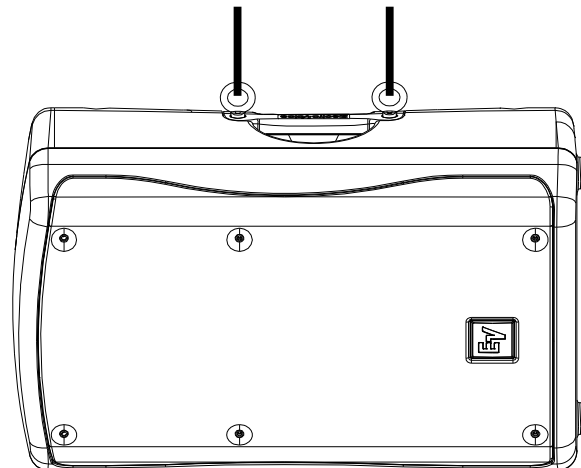


Figure 9:

Suspending the ZxA5 Horizontally from Handle Using Optional Forged Eyebolt Kit

Kit Used - EBK-3 Forged M8 Eyebolt Kit (x1)

ZxA5

Suspending ZxA5 Speaker Systems (cont')

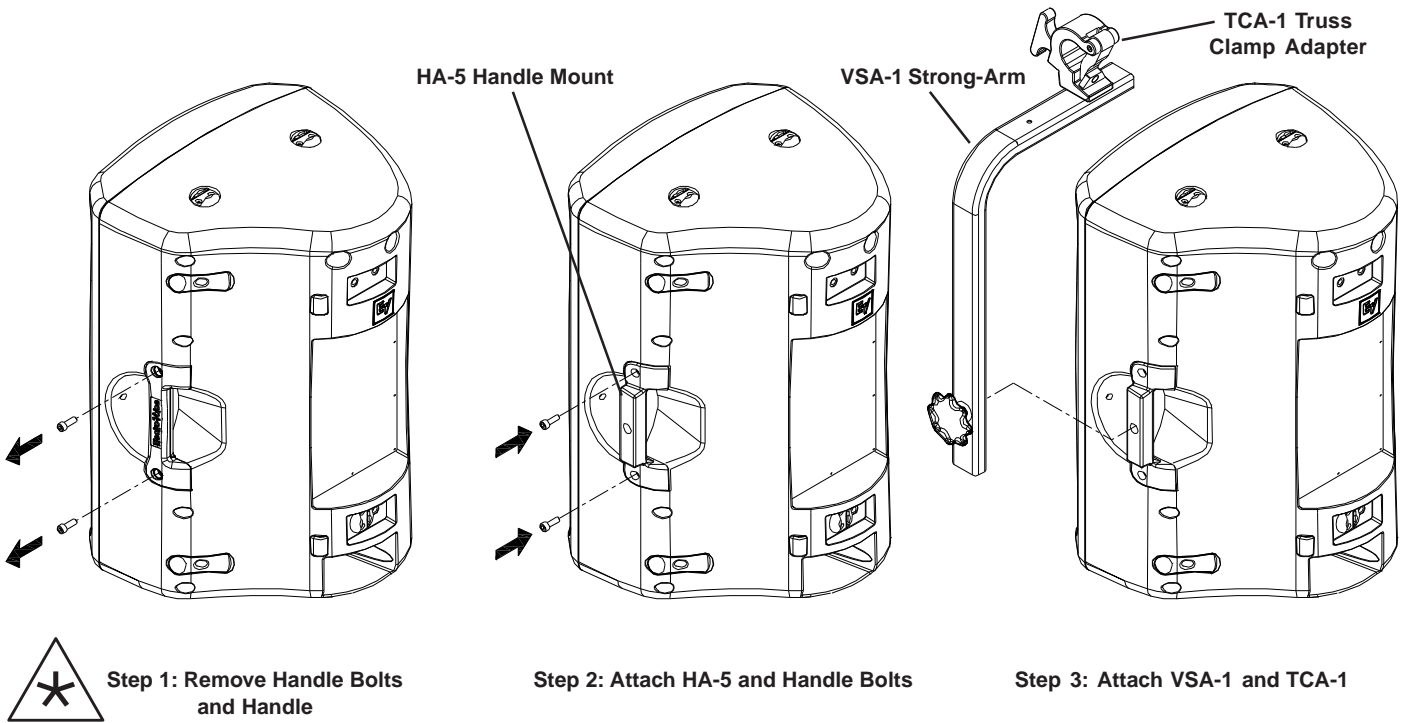


Figure 10:

Assembling HA-5 Adapter for use with VSA-1 Strong-Arm Mount and TCA-1 Truss Clamp Adapter

Kit Used -

TMK-ZX Truss Mount Kit (x1)

Arraying and Suspending the ZxA5 using optional Electro-Voice Mounting or Array Brackets

Figures 11 and 12 show several applications using EV mounting and array brackets. Carefully follow the instructions in this manual & the user manual packaged with EV brackets, and always use safe rigging practices when suspending ZxA5.

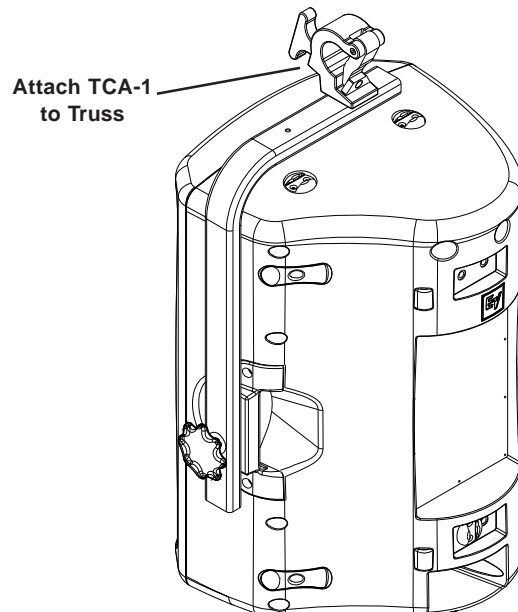


Figure 11:

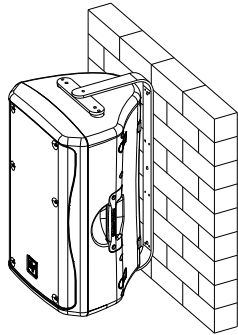
Suspending the ZxA5 Vertically from Handle Using Optional Handle Adapter and Strong-Arm Mount

Kit Used -

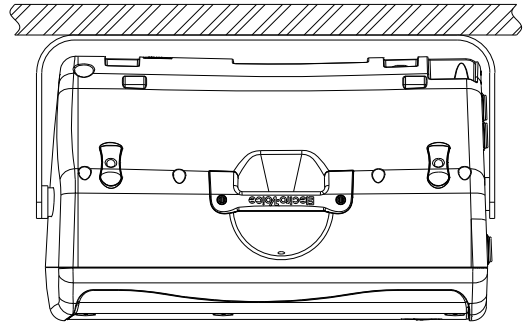
TMK-ZX Truss Mount Kit (x1)

***Note - Please consult TMK Series User Manual for additional information.**

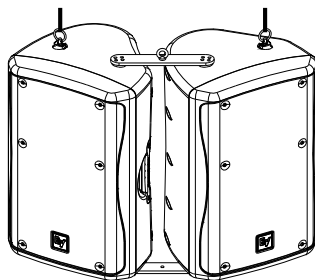
Suspending ZxA5 Speaker Systems (cont')



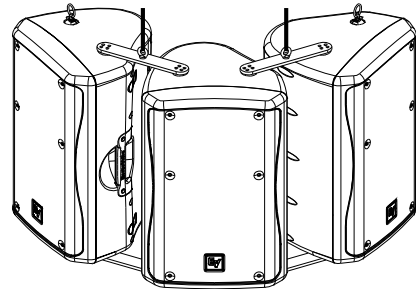
**Kit Used - MB5 Wall/Ceiling Mounting Bracket
(Wall Configuration)**



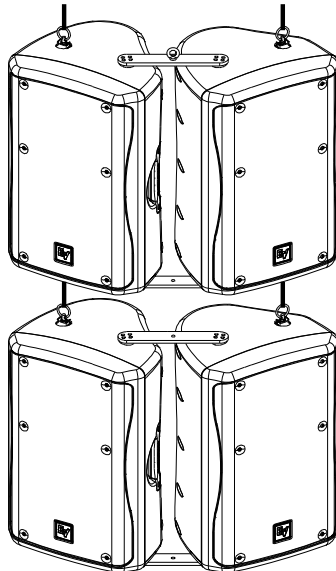
**Kit Used - MB5 Wall/Ceiling Mounting Bracket
(Ceiling Configuration)**




**Kits Used - CB5 Array Bracket Kit (x1)*
SSK-1 Single-Stud Rigging Kit (x1)**

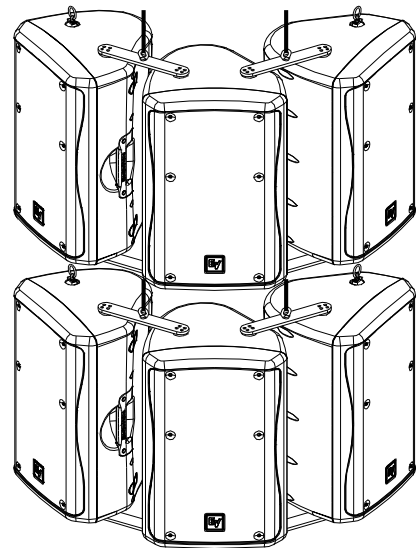


Kit Used - CB5 Array Bracket Kit (x2)*



**Kits Used - CB5 Array Bracket Kit (x2)*
SSK-1 Single-Stud Rigging Kit (x2)
EBK-3 Forged M8 Eyebolt Kit (x1)**


NOTE: Do not exceed working load limit for individual rigging points when arraying the ZxA5. (See Figure 3, Page 7)



**Kits Used - CB5 Array Bracket Kit (x4)*
EBK-3 Forged M8 Eyebolt Kit (x1)**

***Note - CB5 Array Kits can be used for 60° or 90° Splay Angles**

Figure 12:
Arraying and Suspending the ZxA5

ZxA5

ZxA5 Stage Monitor Positions

ZxA5 as a Monitor

By design the ZxA5 is a perfect solution for stage monitors. As different stage sizes require different monitor angles, the ZxA5 offers two angles without any additional accessories.

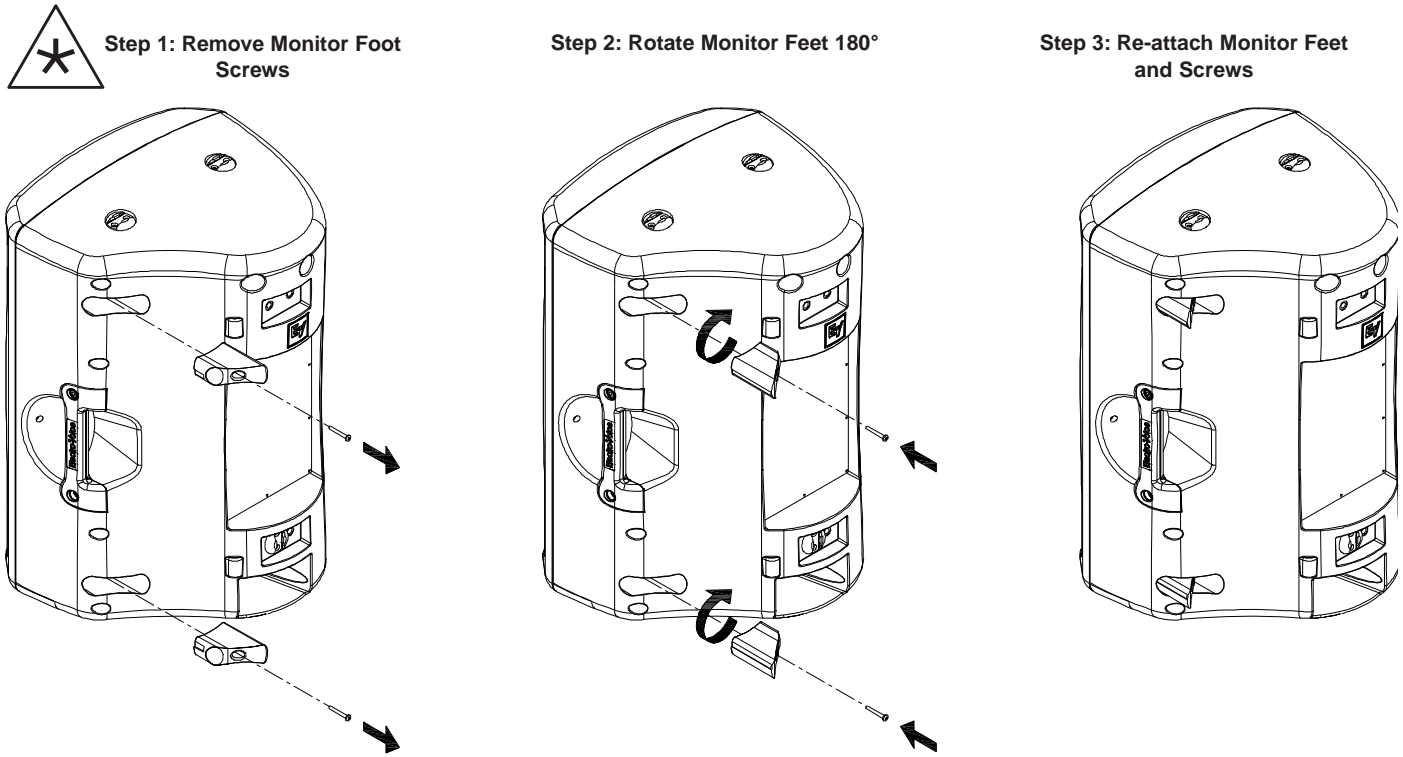


Figure 13:
Switching the Monitor Feet from the 45° to 55° Positions

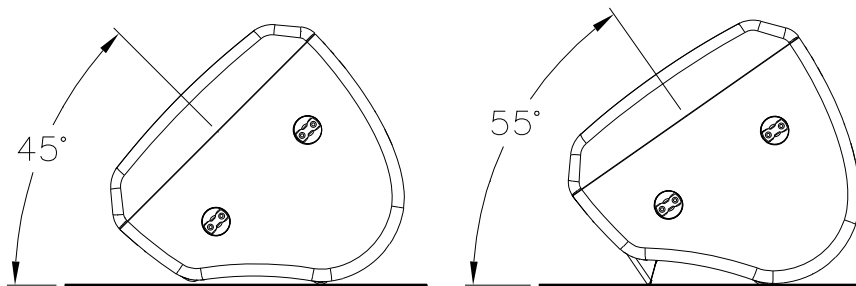


Figure 14a:
ZxA5 as Monitor in 45° Position

Figure 14b:
ZxA5 as Monitor in 55° Position



CAUTION: When flipped to 55° the feet protrude from the enclosure. Care should be taken when moving the enclosure, since damage to the feet or enclosure might occur if the system is dropped or slid across a rough surface. It is recommended that the feet be returned to the 45° position for transport.



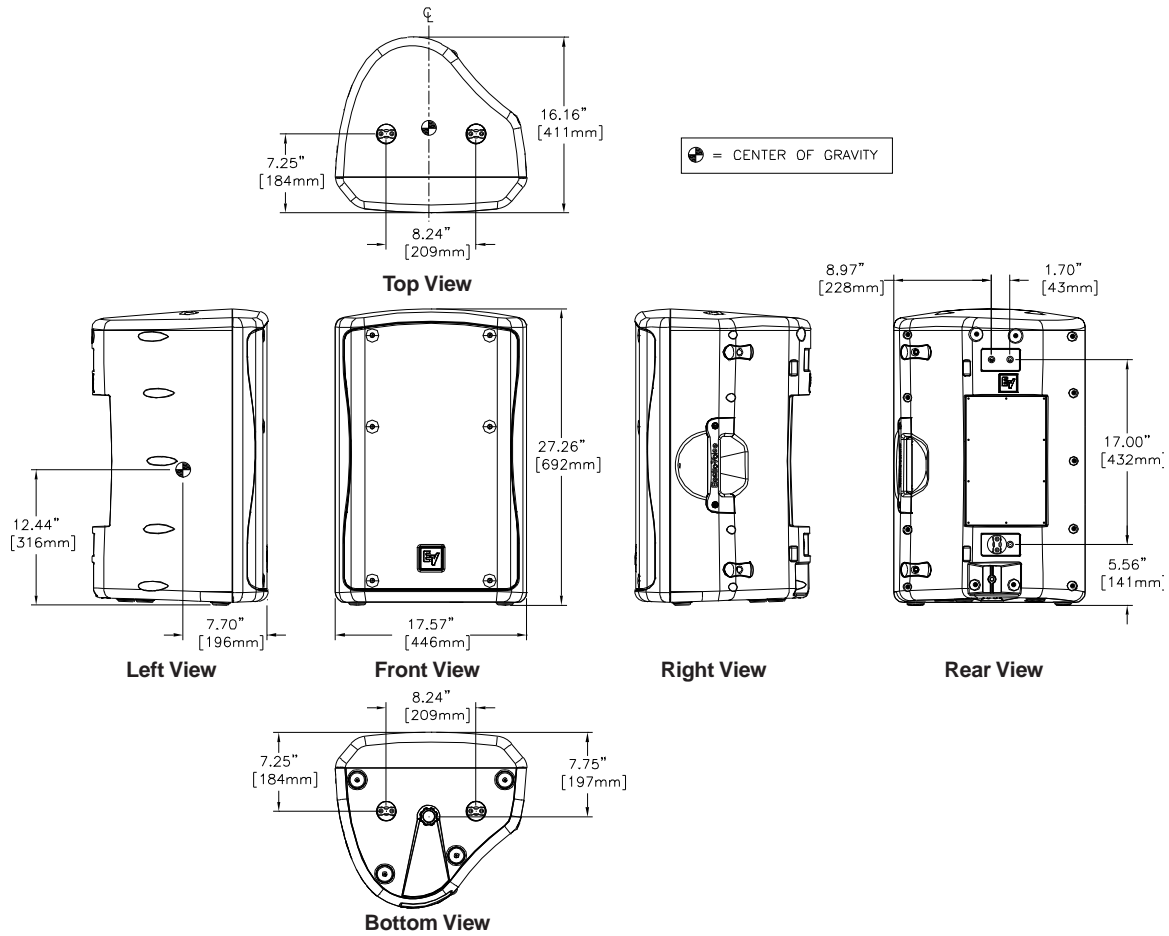
Technical Specifications

Freq. Response ¹ (-3 dB):	58 Hz - 18 kHz
Freq. Range ¹ (-10 dB):	50 Hz - 20 kHz
Max Calculated SPL:	133 dB
Horizontal Coverage:	90° or 60°
Vertical Coverage:	50° or 60°
LF Amplifier Power:	1000W RMS
HF Amplifier Power:	250W RMS
LF Transducer:	DVX3150, 15in (300mm) Driver
HF Transducer:	ND2-16, 1in. (25.4mm) exit Neodymium Compression Driver
Crossover Frequency:	1.5 kHz
Input Connector:	XLR and 1/4" TRS Combination
Output Connector:	XLR
Power Requirement:	120 VAC, 50-60 Hz, or 230VAC, 50-60 Hz
Enclosure Material:	Polypropylene Structural Foam
Suspension:	Enclosure has locations for 5 Single- Stud Attachment Plates and 10 Forged Steel Eyebolts - 2 on Top, 2 on Bottom, 2 on Side, and 4 on Rear of Enclosure
Grille:	Polyester Powder Coated, 16GA Galvanized Steel
Dim (H x W x D):	27.26" x 17.57" x 16.16" (692mm x 446mm x 411mm)
Net Weight:	50.5 lbs (22.9 kg)
Shipping Weight:	58.9 lbs (26.7 kg)

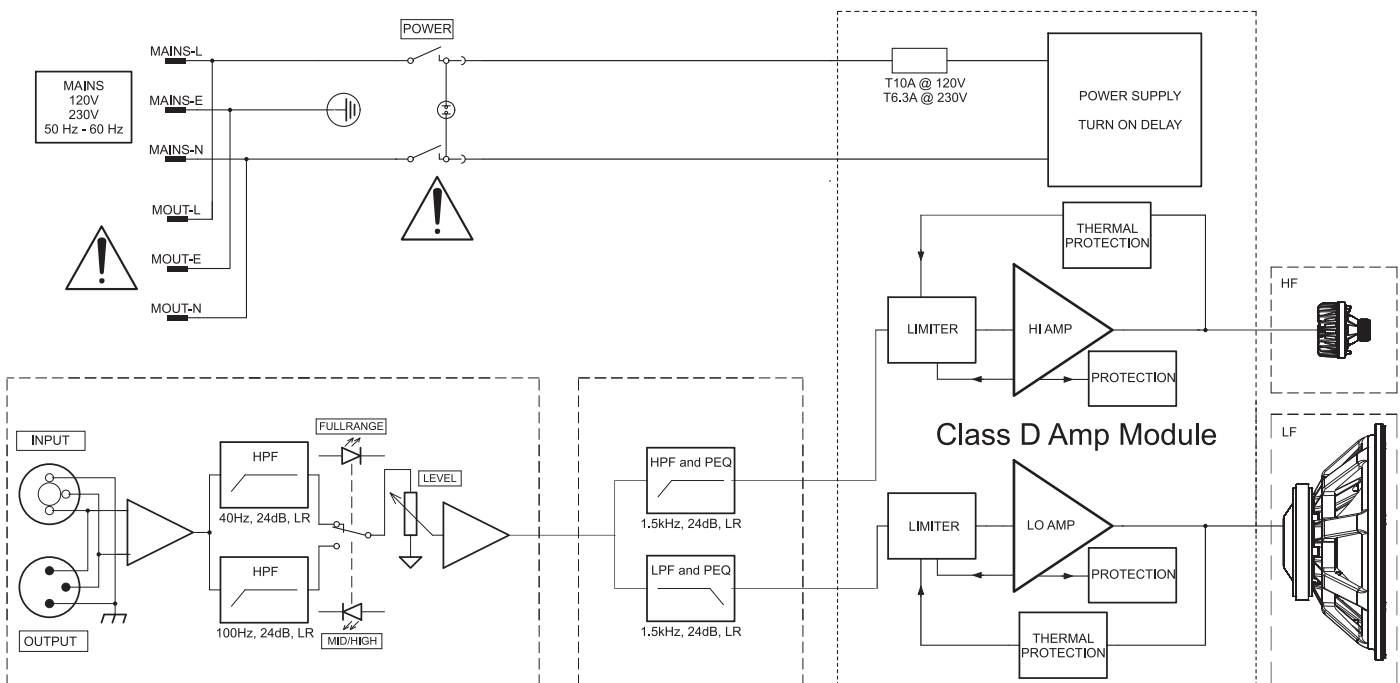
¹ Half Space measurement.

ZXA5

Dimensions



Block Diagram

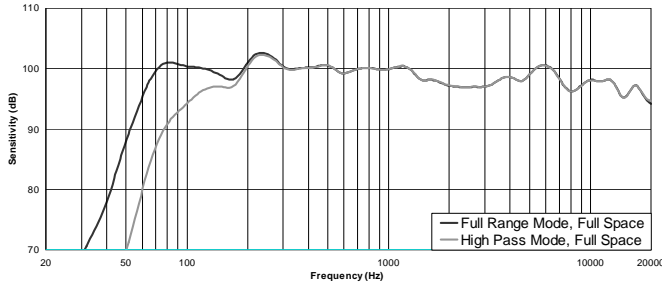




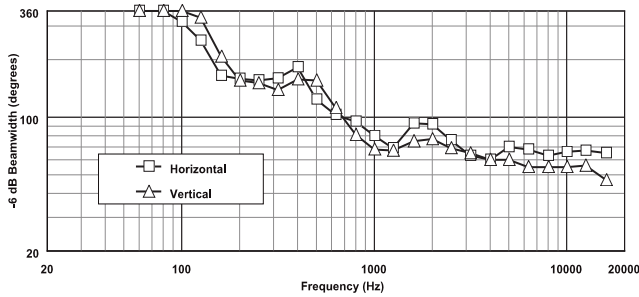
Frequency Response, Beamwidth, and Directivity

ZxA5-60, 60° x 60° Coverage

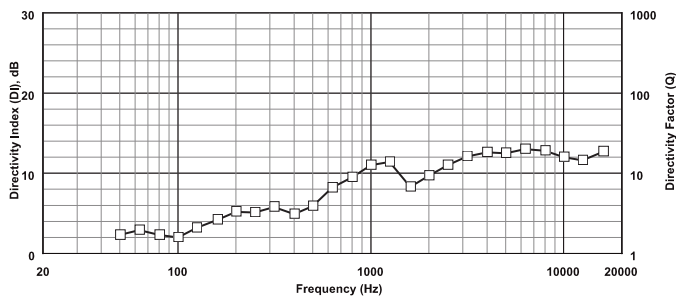
Frequency Response:



Beamwidth:

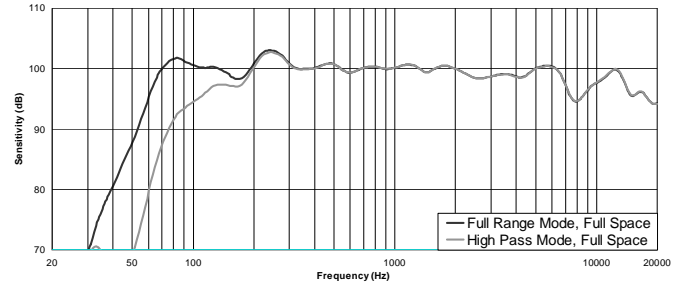


Directivity:

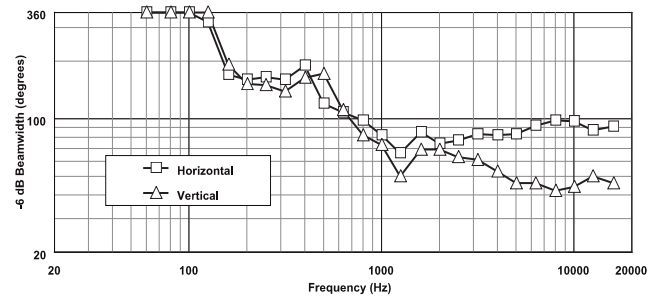


ZxA5-90, 90° x 50° Coverage

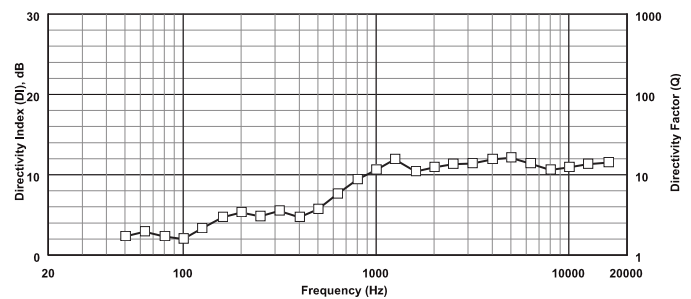
Frequency Response:



Beamwidth:



Directivity:



ZXA5

ZxA5 Rigging Accessory Reference Table

Model	Description	Part No.
CB5-B	Array Bracket Kit, Black Finish	301625-001
CB5-W	Array Bracket Kit, White Finish	301625-002
MB5-B	Wall/Ceiling Mounting Bracket Kit, Black Finish	301626-001
MB5-W	Wall/Ceiling Mounting Bracket Kit, White Finish	301626-002
SSK-1	Single-Stud Rigging Kit (Set of 3)	301633-000
EBK-3	Forged M8 Eyebolt Kit (Set of 3)	301634-000
RK-Z	Single-Stud Anchor Plate Kit (Set of 3)	301812-000
TMK-ZX	Truss Mount Kit, Includes VSA-1, TCA-1, and HA-5 (Black)	KIT000007-001
HDC-5	Heavy-Duty Stackable Cover, Black	301813-001

FCC Information

FCC Information (USA)

1. IMPORTANT: Do not modify this unit! Changes or modifications not expressly approved by the manufacturer could void the user's authority, granted by the FCC, to operate the equipment.

2. NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Painting ZxA5 Speaker Systems

Painting a ZxA5 Enclosure

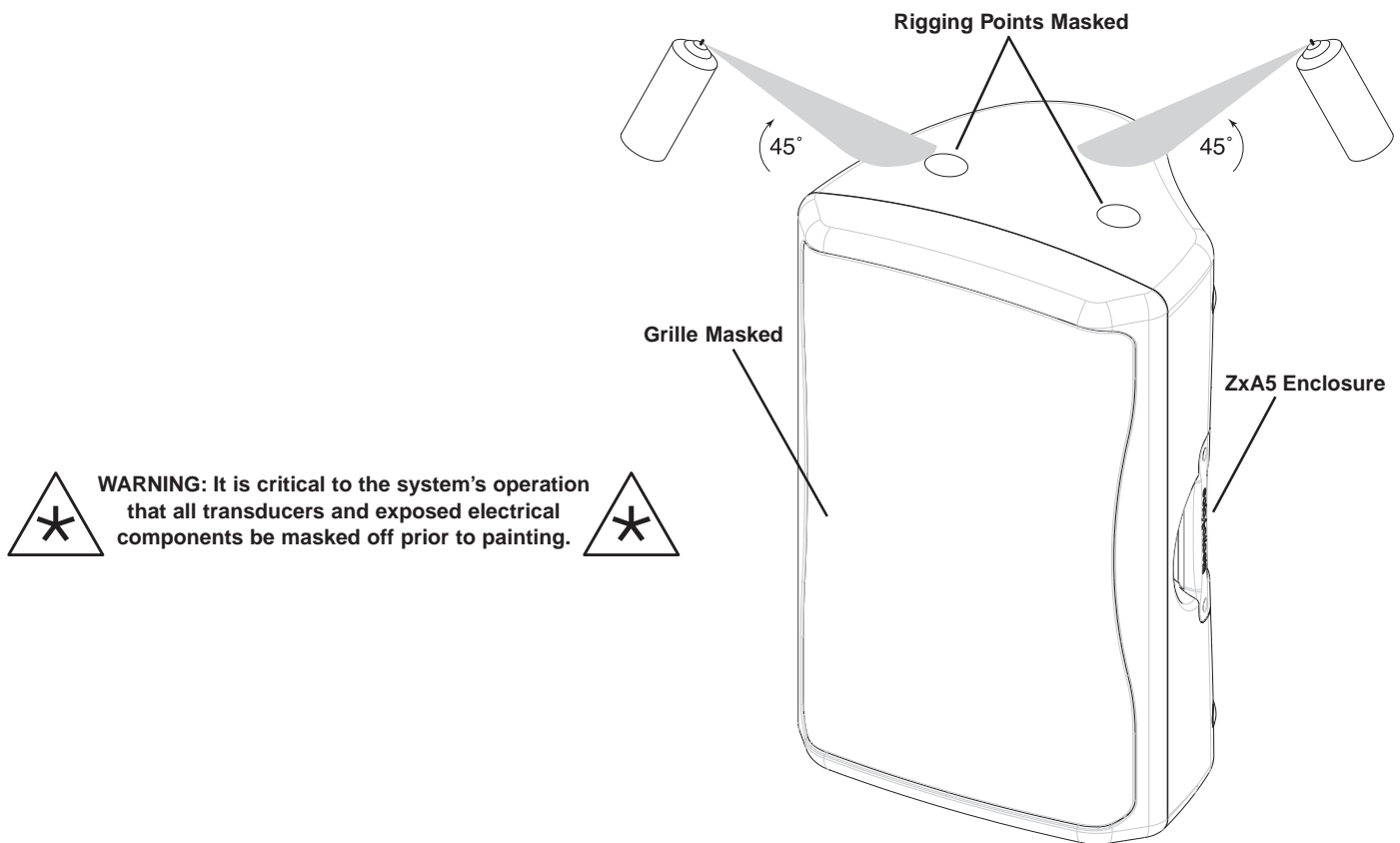
The ZxA5 Loudspeaker Enclosures are made of a high performance Polypropylene material. For best paint adhesion, we recommend a “Plastic Adhesion Promoter” be applied before any paint. Sherwin Williams Plastic Adhesion Promoter UP07226 is a good example (See Telex document number LIT000066-000 for further details.) Once Plastic Adhesion Promoter is applied follow the manufacturer’s painting directions as you would normally.

Painting a ZxA5 Grille

Remove grille from loudspeaker and remove the backing material & logo from grille prior to painting. Once the paint is dry, reapply the backing material and logo to the grille. Spray adhesive such as 3M Super 77 may help adhere the backing material to the grille.

Additional Precautions to be Taken

Prior to painting, be sure to take precautions not to get paint into the transducers. This can be done by masking the grille, temporarily removing the grille and masking the transducers, or by temporarily removing the grille and temporarily removing the transducers. Precautions must also be taken not to get paint into any exposed electrical components by masking them off prior to painting. It is also recommended that any exposed rigging points, warning labels, or instruction labels be masked off for ease of future operation.



Painting View:
Painting the ZxA5 Enclosure

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Specifications subject to change without notice.

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