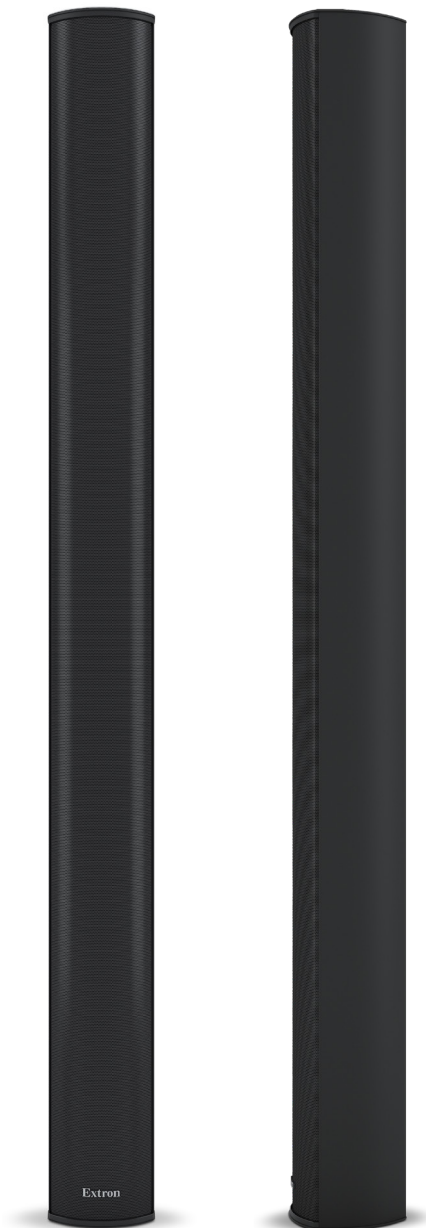




CA 163 Column Array Speaker

Column Array Speaker



User Guide

Safety Instructions

Safety Instructions • English

WARNING: This symbol, , when used on the product, is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

ATTENTION: This symbol, , when used on the product, is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.

For information on safety guidelines, regulatory compliances, EMI/EMF compatibility, accessibility, and related topics, see the Extron Safety and Regulatory Compliance Guide, part number 68-290-01, on the Extron website. www.extron.com.

تعليمات السلامة • العربية

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Weitere Informationen über die Sicherheitsrichtlinien, Produkthandhabung, EMI/EMF-Kompatibilität, Zugänglichkeit und verwandte Themen finden Sie in den Extron-Richtlinien für Sicherheit und Handhabung (Artikelnummer 68-290-01) auf der Extron-Website, www.extron.com.

Instrucciones de seguridad • Español

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ATENCIÓN: Este símbolo, , cuando se utiliza en el producto, avisa al usuario de la presencia de importantes instrucciones de uso y mantenimiento estas están incluidas en la documentación proporcionada con el equipo.

Para obtener información sobre directrices de seguridad, cumplimiento de normativas, compatibilidad electromagnética, accesibilidad y temas relacionados, consulte la Guía de cumplimiento de normativas y seguridad de Extron, referencia 68-290-01, en el sitio Web de Extron, www.extron.com.

Instructions de sécurité • Français

AVERTISSEMENT : Ce pictogramme, , lorsqu'il est utilisé sur le produit, signale à l'utilisateur la présence à l'intérieur du boîtier du produit d'une tension électrique dangereuse susceptible de provoquer un choc électrique.

ATTENTION : Ce pictogramme, , lorsqu'il est utilisé sur le produit, signale à l'utilisateur des instructions d'utilisation ou de maintenance importantes qui se trouvent dans la documentation fournie avec l'équipement.

Pour en savoir plus sur les règles de sécurité, la conformité à la réglementation, la compatibilité EMI/EMF, l'accessibilité, et autres sujets connexes, lisez les informations de sécurité et de conformité Extron, réf. 68-290-01, sur le site Extron, www.extron.com.

Istruzioni di sicurezza • Italiano

AVVERTENZA: Il simbolo, , se usato sul prodotto, serve ad avvertire l'utente della presenza di tensione non isolata pericolosa all'interno del contenitore del prodotto che può costituire un rischio di scosse elettriche.

ATTENZIONE: Il simbolo, , se usato sul prodotto, serve ad avvertire l'utente della presenza di importanti istruzioni di funzionamento e manutenzione nella documentazione fornita con l'apparecchio.

Per informazioni su parametri di sicurezza, conformità alle normative, compatibilità EMI/EMF, accessibilità e argomenti simili, fare riferimento alla Guida alla conformità normativa e di sicurezza di Extron, cod. articolo 68-290-01, sul sito web di Extron, www.extron.com.

Instrukcje bezpieczeństwa • Polska

OSTRZEŻENIE: Ten symbol, , gdy używany na produkt, ma na celu poinformować użytkownika o obecności izolowanego i niebezpiecznego napięcia wewnątrz obudowy produktu, który może stanowić zagrożenie porażenia prądem elektrycznym.

UWAGI: Ten symbol, , gdy używany na produkt, jest przeznaczony do ostrzeżenia użytkownika ważne operacyjne oraz instrukcje konserwacji (obsługi) w literaturze, wyposażone w sprzęt.

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ПРЕДУПРЕЖДЕНИЕ: Данный символ, , если указан на продукте, предупреждает пользователя о наличии неизолированного опасного напряжения внутри корпуса продукта, которое может привести к поражению электрическим током.

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Для получения информации о правилах техники безопасности, соблюдении нормативных требований, электромагнитной совместимости (ЭМП/ЭДС), возможности доступа и других вопросах см. руководство по безопасности и соблюдению нормативных требований Extron на сайте Extron: , www.extron.com, номер по каталогу - 68-290-01.

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注意: ⚠ 产品上的这个标志意在提示用户，设备随附的用户手册中有重要的操作和维护(维修)说明。

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安全上のご注意 • 日本語

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안전 지침 • 한국어

경고: 이 기호 ⚠ 가 제품에 사용될 경우, 제품의 인클로저 내에 있는 접지되지 않은 위험한 전류로 인해 사용자가 감전될 위험이 있음을 경고합니다.

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안전 가이드라인, 규제 준수, EMI/EMF 호환성, 접근성, 그리고 관련 항목에 대한 자세한 내용은 Extron 웹 사이트(www.extron.com)의 Extron 안전 및 규제 준수 안내서, 68-290-01 조항을 참조하십시오.

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Conventions Used in this Guide

Notifications

The following notifications are used in this guide:



WARNING: Same border as **DANGER**.

AVERTISSEMENT : This is French for Warning.

NOTE: A note draws attention to important information.

TIP: A tip provides a suggestion to make working with the application easier.

Specifications Availability

Product specifications are available on the Extron website, www.extron.com.

Extron Glossary of Terms

A glossary of terms is available at <https://www.extron.com/technology/glossary.aspx>.

NOTE: For more information on safety guidelines, regulatory compliances, EMI/EMF compatibility, accessibility, and related topics see the [Extron Safety and Regulatory Compliance Guide](#) on the Extron website.

Regulatory Notifications



WARNING: Potential risk of severe injury or death.

AVERTISSEMENT : Risque potentiel de blessure grave ou de mort.

- This product is intended for indoor use and dry environment only. The device must not be exposed to dripping or ingress of water and that other objects filled with liquids, such as glasses, should not be placed on the apparatus.
- Este producto está diseñado únicamente para lugares interiores y entornos secos. El dispositivo no se debe exponer a goteos ni a entradas de agua, y no se deben colocar objetos llenos de líquido, como vasos, sobre el aparato.

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Introduction

The CA 163 Column Array Speaker User Guide provides instructions for an experienced installer to mount the Extron CA 163 series column array speaker and wiring connections.

This section includes:

- [Product Overview](#)
- [Features](#)
- [Application Examples](#)

Product Overview

The CA 163 is a column array speaker designed to combine excellent speech intelligibility, a contemporary aesthetic, and integration-friendly mounting options. Engineered specifically for reverberant spaces, the CA 163 features sixteen 3" (76.2 mm) drivers with the ability to handle up to 480 watts of continuous program. Its focused vertical dispersion efficiently directs sound to listeners instead of reflective ceilings and floors. Two mounting systems are available to accommodate different room layouts and sizes. The CA 163 PT includes a pan and tilt wall mount with up to 15° of tilt and up to 130° of pan, while the CA 163 LP includes a low-profile wall mount with up to 5° of tilt. Available in black or white, the CA 163 is a precise solution for acoustically challenging environments.

Features

- **Focused vertical dispersion with wide horizontal dispersion for acoustically challenging spaces —**

Nominal horizontal coverage at 4 meters:

- 180° at 1 kHz

Nominal vertical coverage at 4 meters:

- 38° at 500 Hz
- 20° at 1 kHz
- 14° at 2 kHz
- 18° at 4 kHz

Extron recommends utilizing the [CA 163 GLL file](#) in your acoustic simulation program to determine suitability.

- **240 watts continuous pink noise**
- **480 watts continuous program**
- **Frequency range: 105 Hz to 20 kHz** — Within the dispersion pattern
- **Mounting system included** — Choice of:
 - Pan and Tilt model, with up to 130° pan and 15° tilt
 - Low-Profile model, with up to 5° tilt, and under 6" (152 mm) depth
- **EASE compatible GLL speaker data files available for download ([CA 163 GLL file](#))** — Accurately simulate the CA 163 using EASE or EASE Focus.
- **Designed for quick and easy one person installation**
- **Includes dual-sided mounting template for Pan and Tilt and Low-Profile mounting systems**
- **Two versions available:**
 - 8 ohm direct operation only
 - Transformerless 70/100 volt operation only

- **Sixteen matched 3" (76 mm) full range drivers**
- **Durable, powder-coated aluminum enclosure**
- **Paintable enclosure, available in black or white —**
 - Black: RAL 9011 (chassis), RAL 9017 (endcaps and grille)
 - White: RAL 9003 (chassis, endcaps and grille)
- **Included secondary tie-off point**
- **Enclosure Dimensions: 51.9" H x 5.0" D x 4.5" W (131.8 cm x 12.7 cm x 11.4 cm)**
- **5 year parts and labor warranty**

Product Diagram

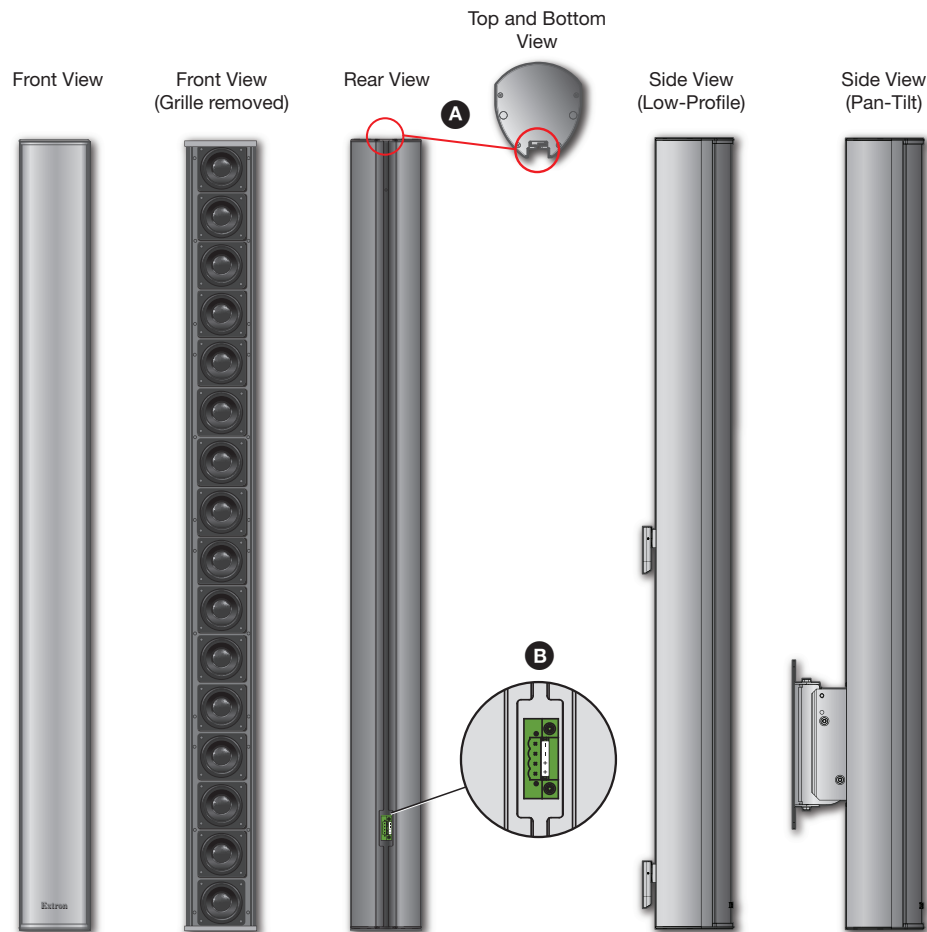


Figure 1. CA 163 Product Diagram

- A Mounting Bracket T-slot (see figure 1)** — Runs the entire length of the speaker enclosure. Carriage Bolts (for the SMK LP CA) or Anchor Plates (SMK PT CA) can slide in through either end to the desired locations. Secure and re-adjust if needed.
- B 4-pole 5mm captive screw input connector** — For installing speaker wires, see [Reference Information](#) on page 15.

Application Examples

See the three CA 163 application configuration examples below:

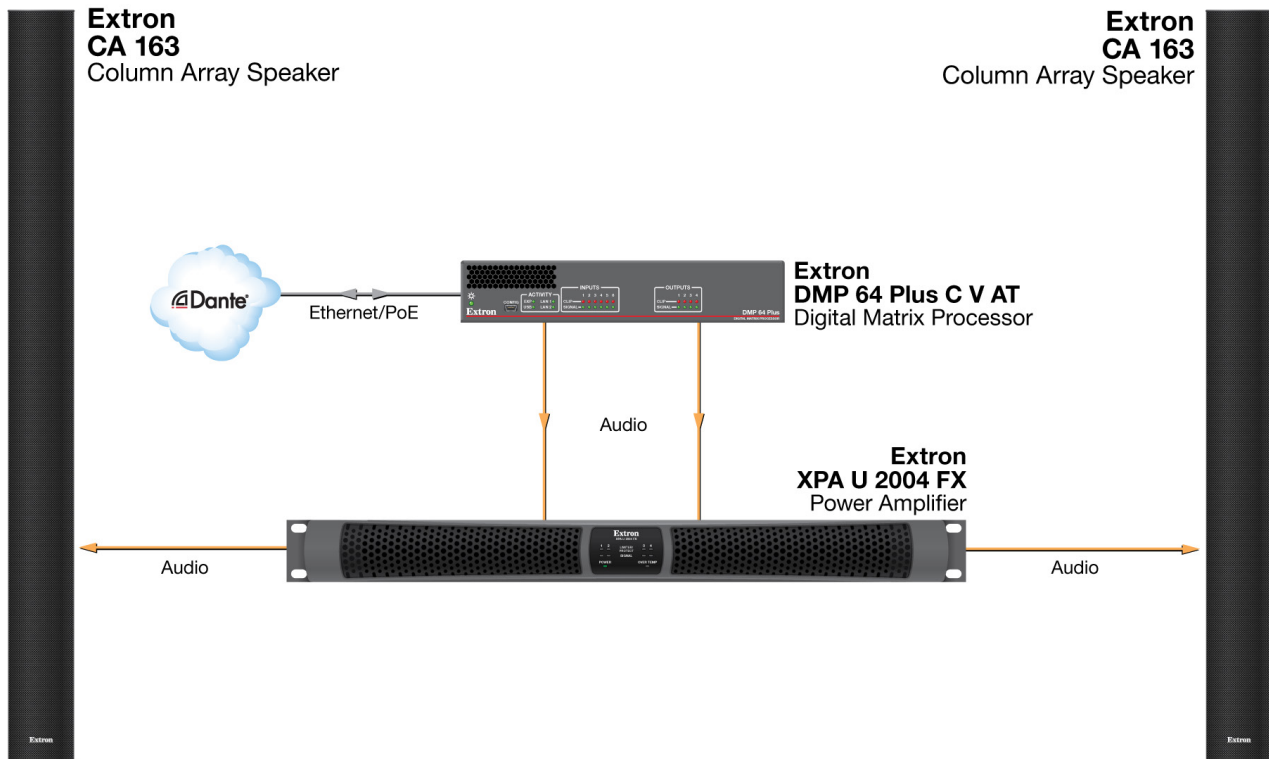


Figure 2. Speaker Application Example - Large Room

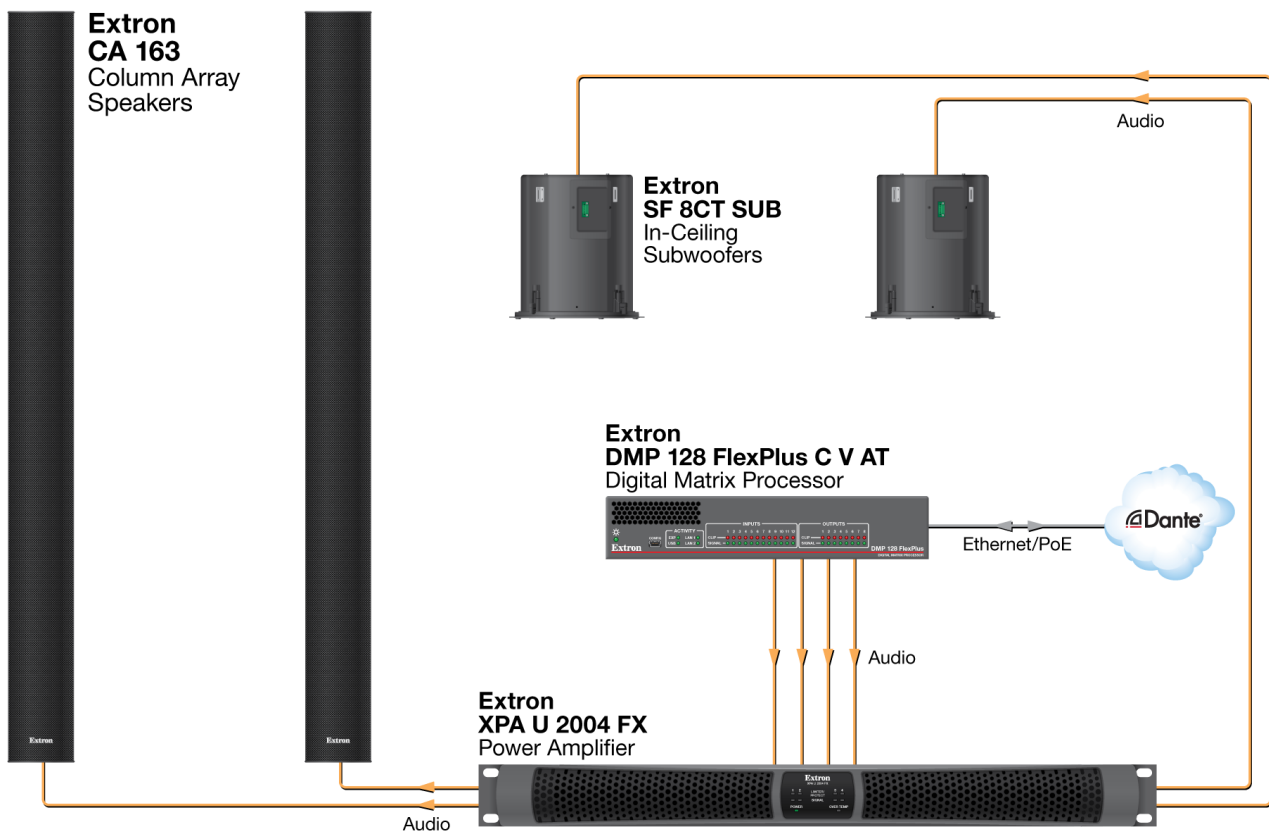


Figure 3. Speaker Application Example - Lecture Hall

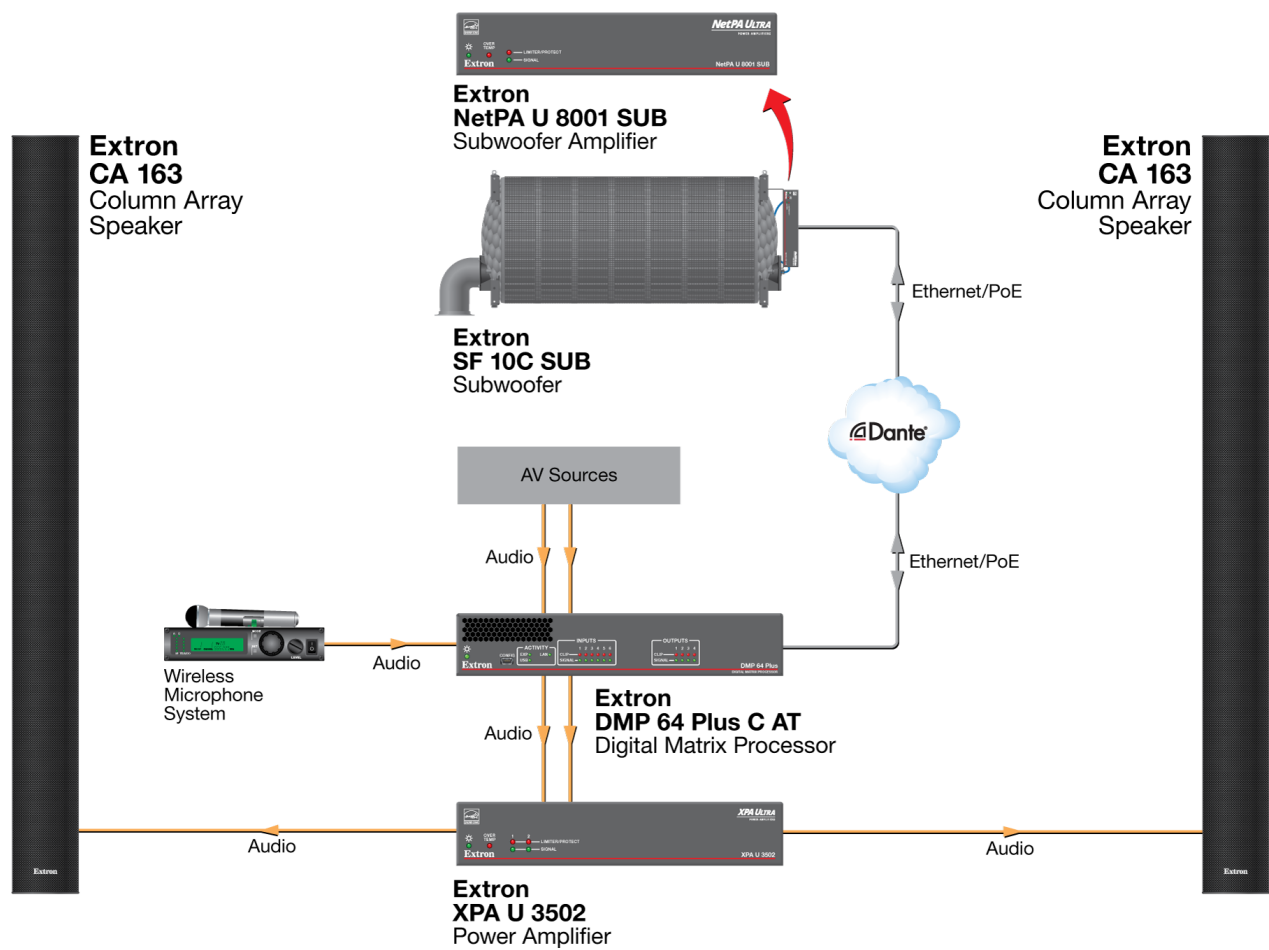


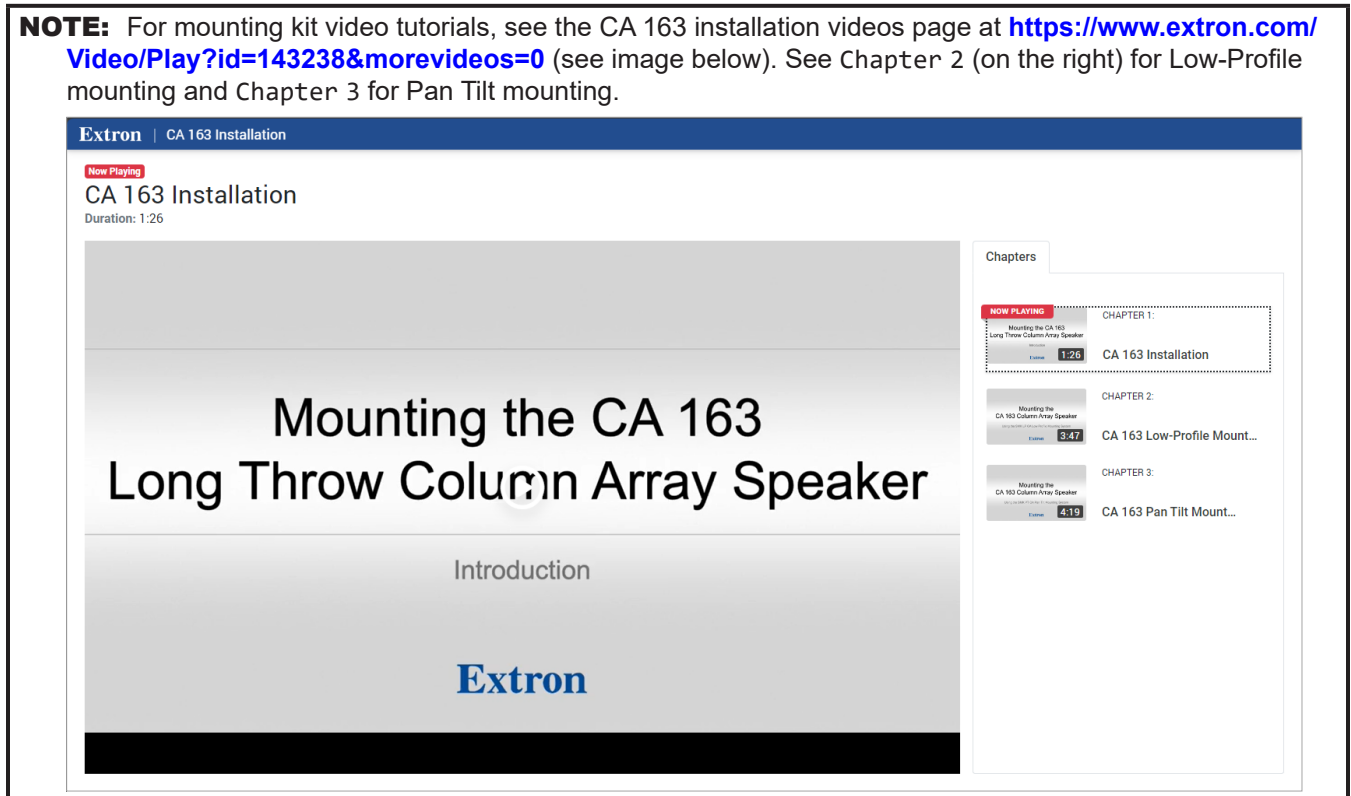
Figure 4. Speaker Application Example - Common Area

Mounting Options

The CA 163 Loudspeaker can be wall mounted with either of the following mounting options:

- **SMK LP CA Low-Profile Mounting Bracket Kit** — mounts flat; can be adjusted for $\pm 2.5^\circ$ and $\pm 5^\circ$ tilt.
- **SMK PT CA Pan-Tilt Mounting Bracket Kit** — allows up to 15° tilt and $\pm 65^\circ$ panning.

NOTE: For mounting kit video tutorials, see the CA 163 installation videos page at <https://www.extron.com/Video/Play?id=143238&morevideos=0> (see image below). See Chapter 2 (on the right) for Low-Profile mounting and Chapter 3 for Pan Tilt mounting.



For regions that require it, the **Secondary Tie-off** provides additional mounting stability; securing the speaker with a suitable anchor point on the wall or ceiling.

NOTE: Do NOT discard the Mounting Template or foam end caps until entire installation process is complete.

SMK LP CA Low-Profile Mounting Bracket Kit

The SMK LP CA Low-Profile Bracket allows for the CA 163 column loudspeaker to be positioned flat against the wall (less than 1" off the surface), where little to no tilt is required (up to $\pm 5^\circ$ tilt max).

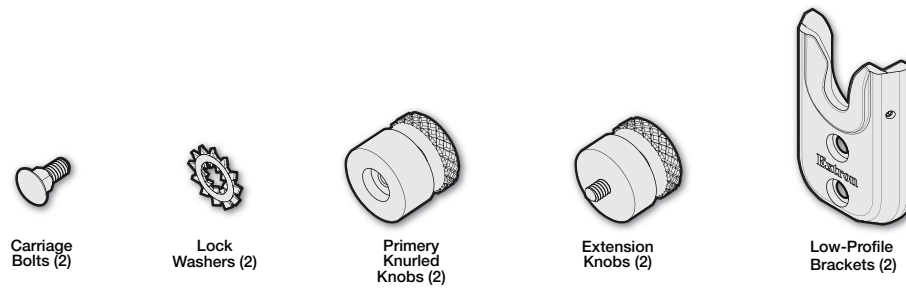
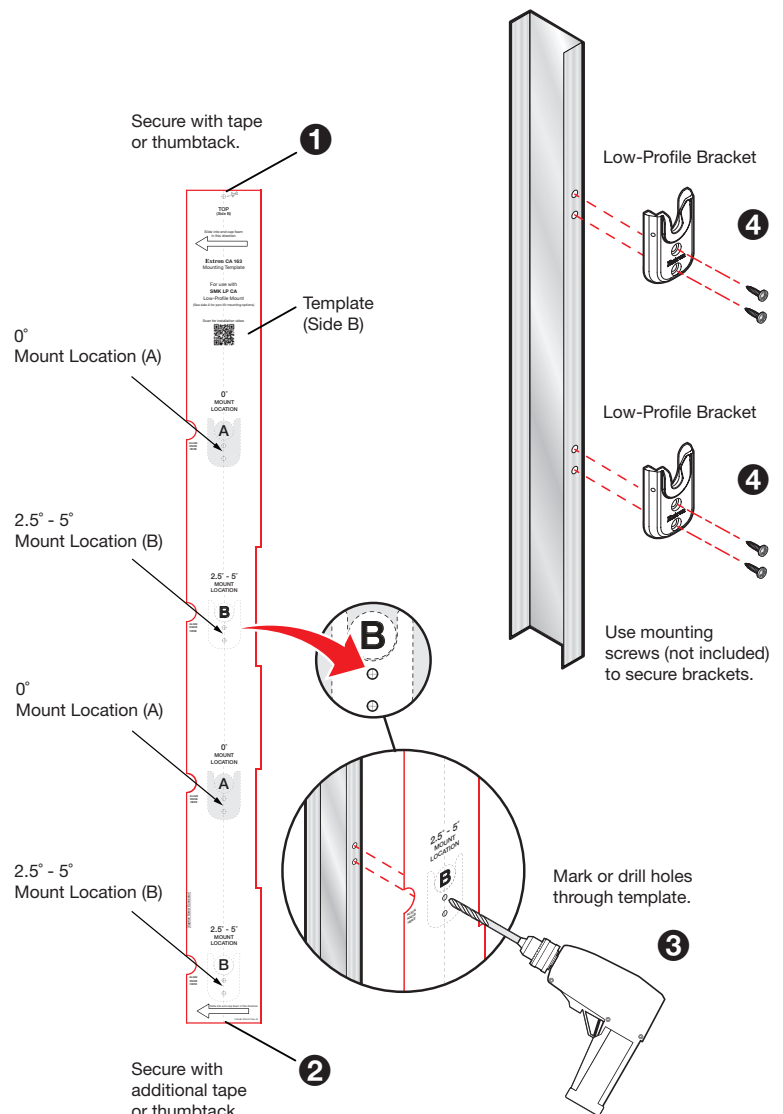


Figure 5. SMK LP CA Low-Profile Bracket Kit

Mounting the Low Profile Wall Brackets

1. Position SMK LP CA mounting template, with side B up (see figure on the right) to the wall where you want to mount the speaker. Use a pushpin or piece of tape to secure the top end of the template to the wall (1). Ensure the template is level, then secure the bottom end with an additional pushpin or piece of tape (2).
2. Determine which mounting location is being used:
 - a. For flat 0° mounting, use "A" mounting positions, labeled 0° .
 - b. For speaker requiring some tilt, use "B" mounting positions, labeled 2.5° - 5° .
3. Mark (or drill) the bracket screw locations through the template (3).
4. When marking or drilling is complete, remove the template from the wall. DO NOT discard the template.
5. If necessary, cut a hole in the wall to route cables to the CA 163 speaker.
6. If not done already, drill four pilot holes through the marked locations on the wall.
7. Use appropriate hardware (not included) to securely attach the low-profile brackets to the wall (4) (example – using #14 x 1 3/4" self-tapping wood or metal screws and 1/4" SAE washers).

NOTE: DO NOT mount the Low-Profile Brackets over the mounting template.



Mounting Carriage Bolts and Knurled Knobs onto the Speaker

1. Remove the CA 163 speaker from the box and set face-down on a flat surface with the two foam caps still attached. Note the input connector is on the bottom end of the speaker.



Figure 6. CA 163 with Foam End Caps

2. Brace the top end of the speaker with your hand as you remove the top foam cap (see figure 7, ①).
3. Slide two included carriage bolts and washers into the T-slot (②), and place the foam cap back on the speaker.
4. Screw the two Primary Knurled Knobs onto the two carriage bolts (③). Do not tighten. The knobs need to be loose enough to slide up and down the T-slot.

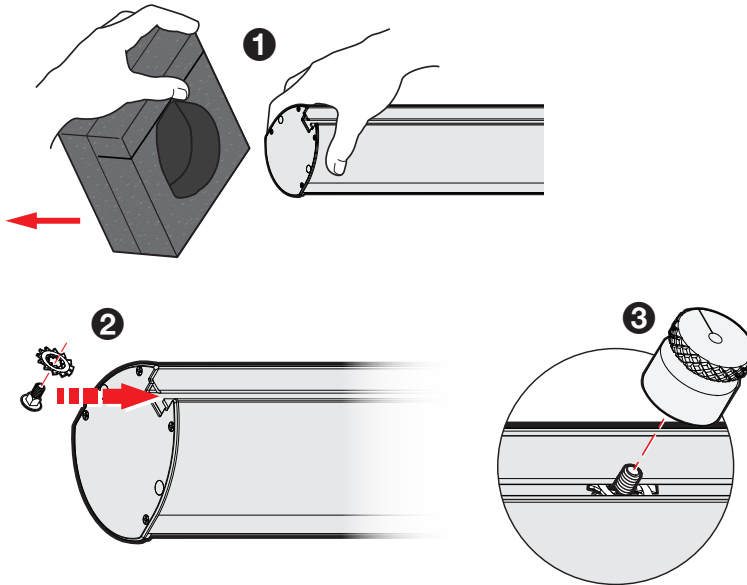


Figure 7. Slide Carriage Bolts into T-slot and Secure Knurled Knobs

NOTE: For mounting with with an upward tilt, skip to [Upward Tilt Mounting for SMK LP CA](#) on page 17 for alternate steps.

5. Find the slotted grooves on the foam end pieces and slide in the template (see figure 8, ④), with side “B” facing up. Note the input connector is on the bottom end of the speaker.

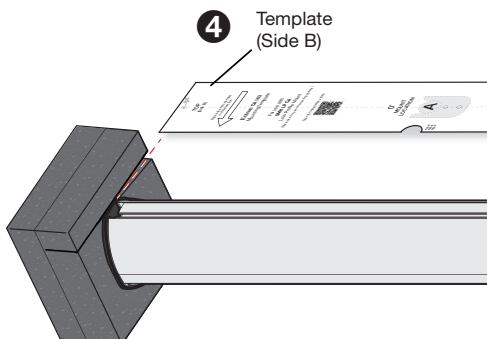


Figure 8. Insert Mounting Template side “B” into Foam Slots

- Align the Knurled Knobs into the “A” (flat) or “B” (for $\pm 2.5^\circ$ or $\pm 5^\circ$ tilt) mount positions, and tighten to secure. Tighten the knobs an additional quarter turn for safety.

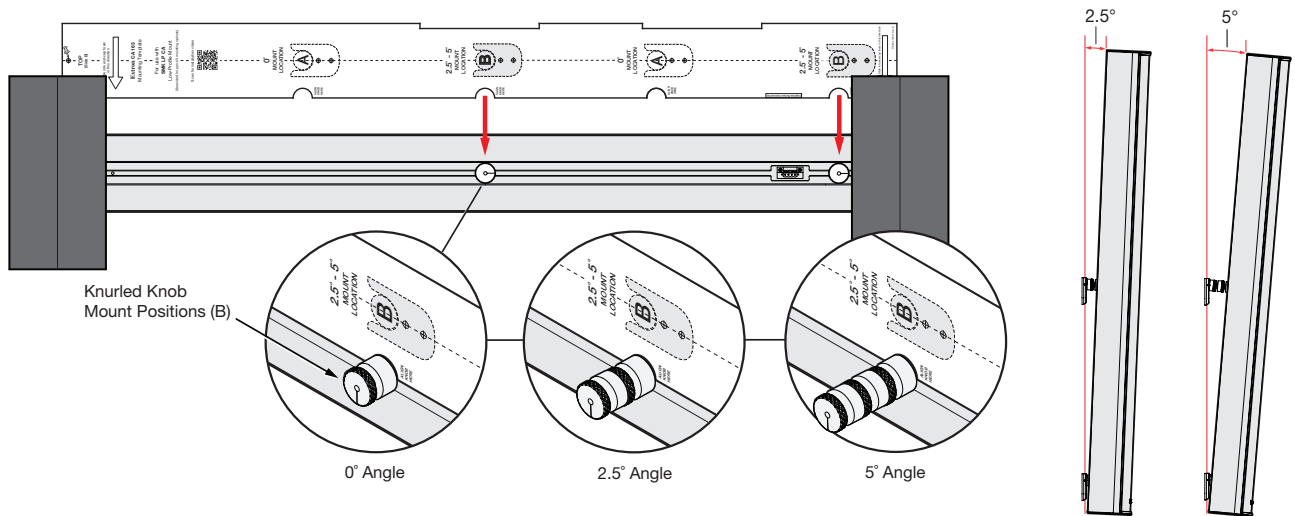


Figure 9. Align and Secure Primary Knobs (“B” Mount Positions shown)

- To add downward tilt (in the “B” mount positions ONLY), screw one or both 2.5” Extension Knobs onto the top Primary Knob (see figure on the right).

NOTE: For mounting with an upward tilt, see [Upward Tilt Mounting for SMK LP CA](#) on page 17 for alternate steps.

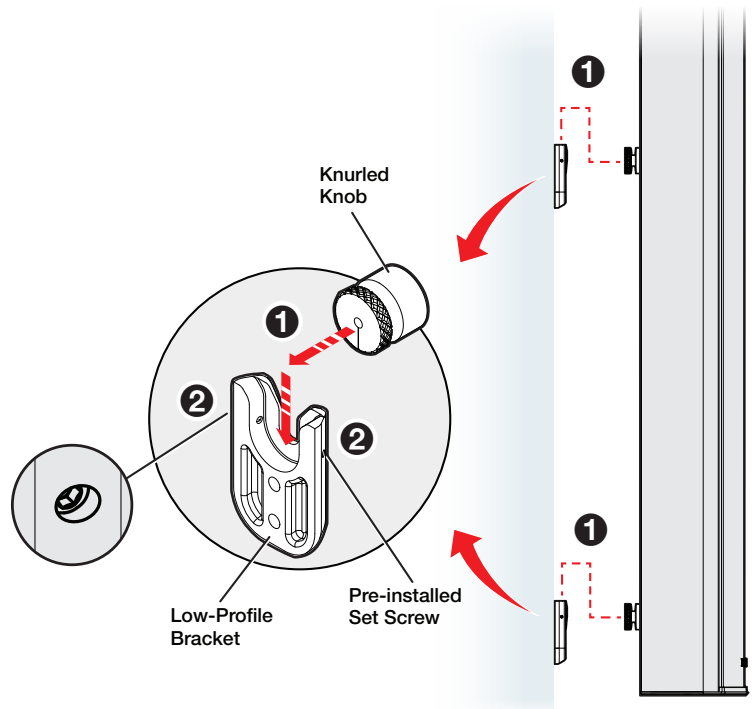
Mounting the Speaker onto the Wall Brackets

NOTE: If cable ties are required, mount the [Secondary Tie-off](#) (see page 14) onto the T-slot before mounting the speaker assembly.

- Slide the two Knurled Knobs into the two Low-Profile Brackets (see figure on the right, ①).
- Using a 5/64” or 2 mm hex wrench, secure the speaker in place by tightening one or both set screws (②) for each Low-Profile Bracket.

For specific angles other than 0°, 2.5°, and 5°, loosen the upper Primary Knob and slide it up the column. For example, by doubling the 22” distance to 44”, the 2 Extension Knobs provide 1.25° or 2.5° tilt.

If more than 5° tilt is required, see [SMK PT CA Pan-Tilt Mounting Bracket Kit](#) on page 9.



SMK PT CA Pan-Tilt Mounting Bracket Kit

The SMK PT CA Pan-Tilt mounting bracket kit allows the speaker to be placed in a wide array of positions. When the bracket is secured to the wall, the installer can fasten the column to the bracket and make fine adjustments without holding the weight of the speaker.

Discrete precision tilt angles are available for 0°, 5°, 10°, and 15° stops. There are also continuously adjustable angles from 0° to 15° provided in the slot.

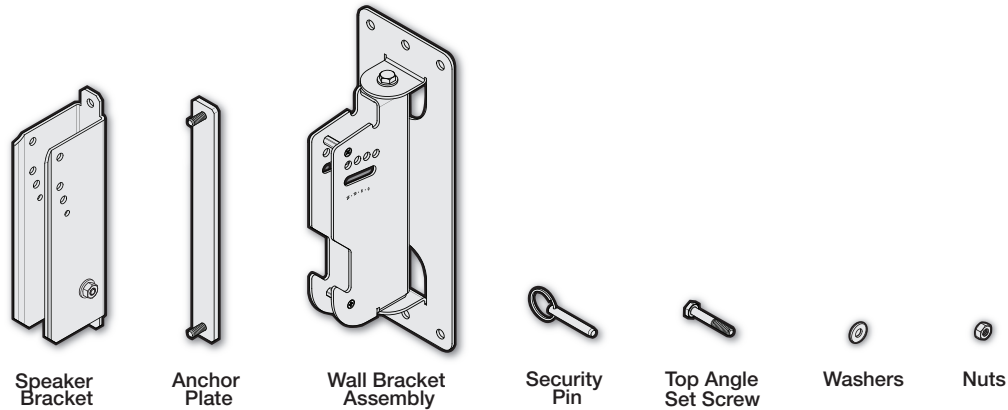


Figure 10. SMK PT CA Pan-Tilt Bracket Kit

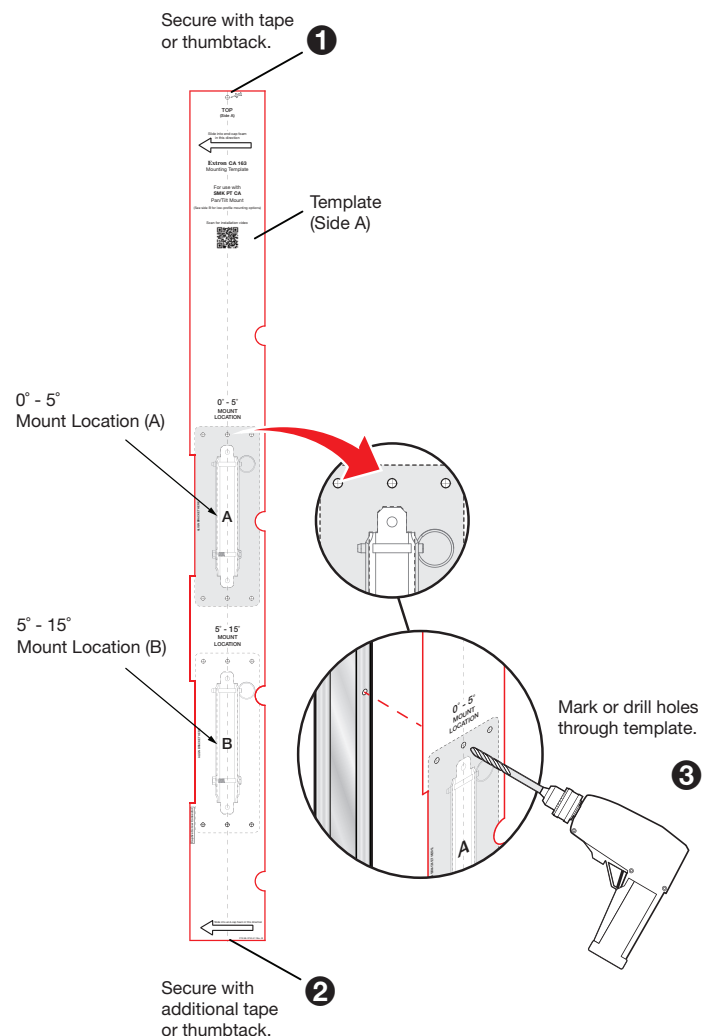
Mounting the Pan-Tilt Wall Bracket Assembly

1. Position SMK PT CA mounting template, side A up (see figure on the right) to the wall where you want to mount the speaker. Use pushpin or tape to secure template to the wall (1). Ensure the template is level and secure the bottom with an additional pushpin or piece of tape (2).
2. Determine which mounting location is being used for the tilt required to cover the space.
 - a. Use mounting position "B", labeled 5°-15° for Flat mounting.
 - b. Use mounting position "A", labeled 0°-5° (see [Mounting Options](#) on page 5) for an option requiring more tilt.

NOTES:

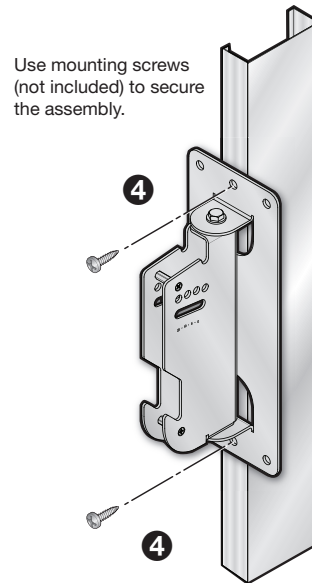
- If the Wall Bracket Assembly cannot be attached to at least two wall studs, then attach one end of the assembly to the wall using one stud and attach the other end using two (not included) 1/4" Kap Toggles.
- If the studs must align with the middle of the Wall Bracket Assembly, secure the assembly to the studs using two screws, and to the wall using two (not included) 1/4" Kap Toggles (one on the leftmost top slot and one on the rightmost top slot).

3. Mark (or drill holes) for the wall stud locations through the template (3).



4. When marking is complete, remove the template from the wall. Set aside, but DO NOT discard.
5. If necessary, cut a hole in the wall to route cables to the CA 163 speaker.
6. If not already done, drill four pilot holes through the marked locations on the wall.
7. Use appropriate hardware to securely attach the Wall Bracket Assembly to the wall studs (see figure on the right, ④) (example - using #14 x 1 3/4" self-tapping wood or metal screws and 1/4" SAE washers).

NOTE: DO NOT mount Wall Bracket Assembly over the mounting template.



Mounting the Speaker Bracket and Anchor Plate onto the Speaker

1. Remove the CA 163 speaker from the box and set face-down on a flat surface with the foam end caps still attached. Note the input connector is on the bottom end of the speaker.

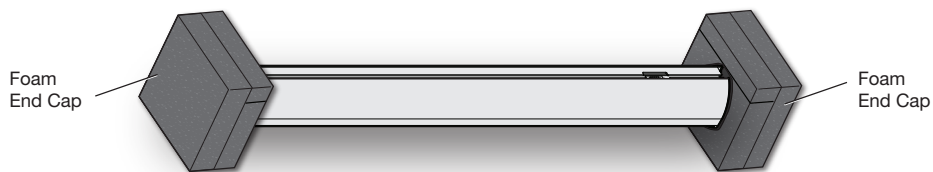


Figure 11. CA 163 with Foam End Caps

2. Brace the top of the speaker with your hand as you remove the top-end foam piece (see figure 12, ①). Slide the Anchor Plate into the T-slot (②), and place the foam piece back on the speaker.

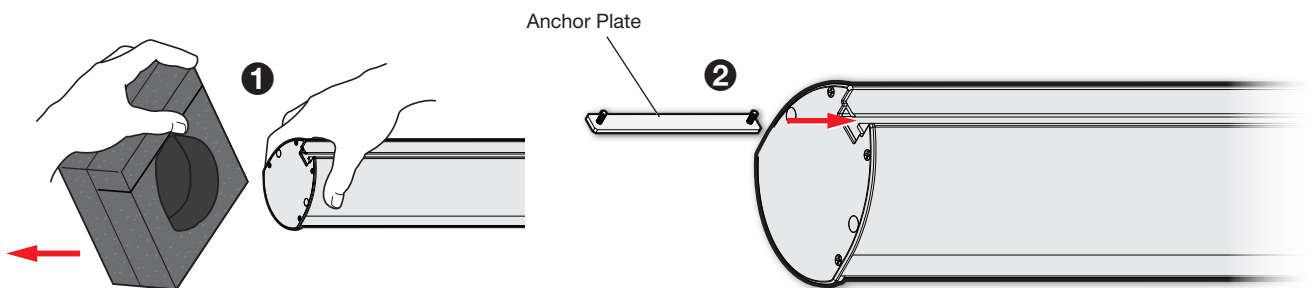


Figure 12. Slide Anchor Plate into T-slot

- Secure the Speaker Bracket to the anchor plate with two supplied washers and nuts. Do not tighten. The Speaker Bracket assembly needs to be loose enough to slide up or down the T-slot.

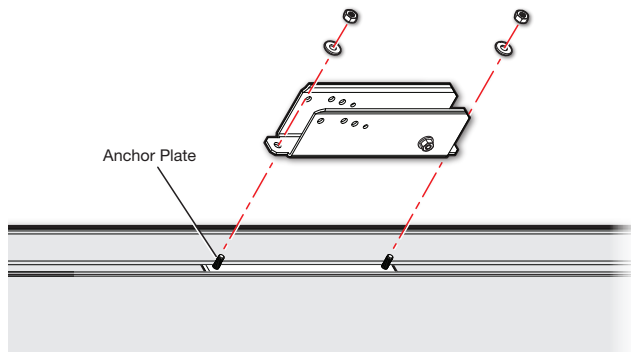


Figure 13. Secure Speaker Bracket to Anchor Plate

- Find the slotted grooves on the foam end pieces and slide in the template, with side “A” facing up.

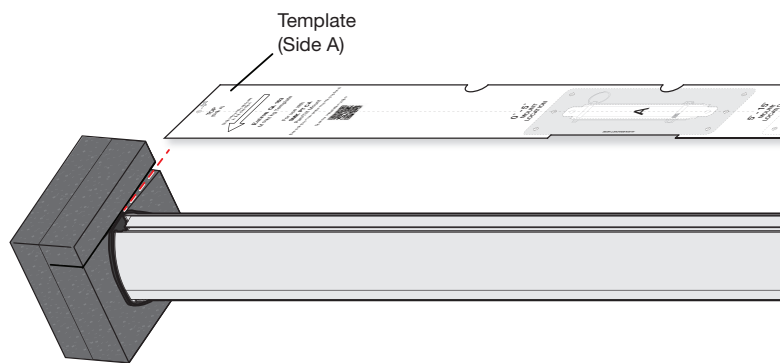


Figure 14. Insert Mounting Template side “A” into Foam Slots

- Align the Speaker Bracket assembly with required “A” or “B” cutout and tighten the two nuts to 85-90 in-lb (7.0- 7.5 ft-lb) (9.6 - 10.1 N-m) to secure the Speaker Bracket in place.

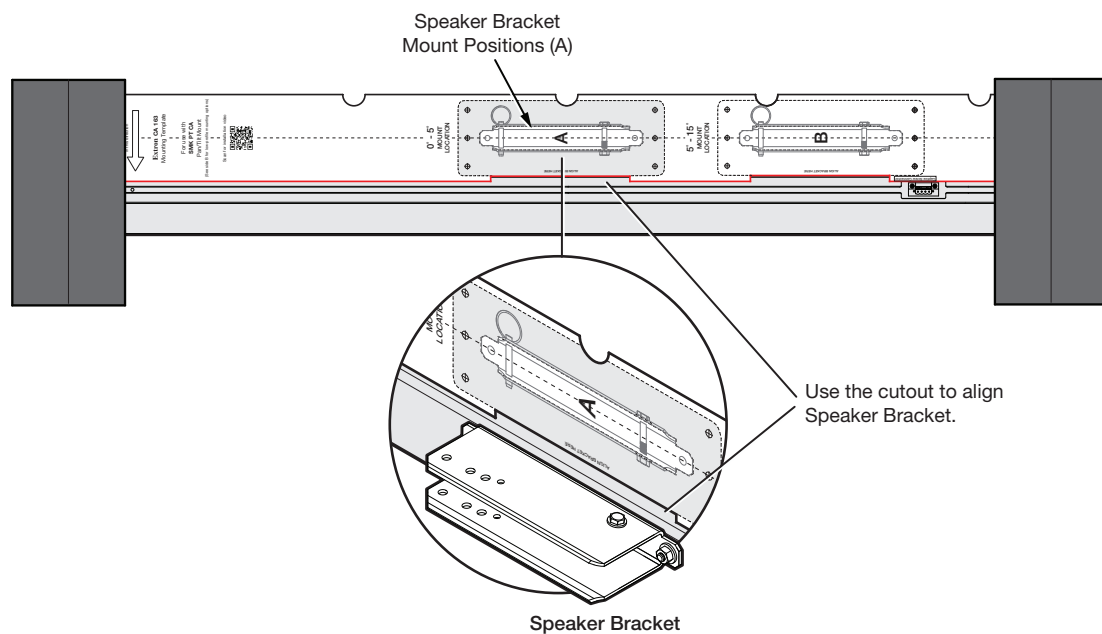


Figure 15. Align and Secure Speaker Bracket Assembly

Mounting the Speaker onto the Pan-Tilt Wall Bracket Assembly

NOTE: If cable ties are required, mount the [Secondary Tie-off](#) (see page 14) onto the T-slot before mounting the speaker assembly.

1. Insert the Security Pin in top hole of Speaker Bracket.

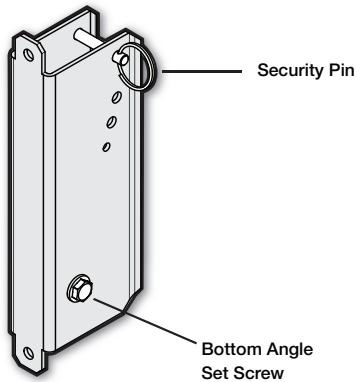


Figure 16. Security Pin and Bottom Angle Set Screw

2. Attach speaker to Wall Bracket Assembly by lowering the Speaker Bracket and bottom Angle Set Screw onto the Wall Bracket Assembly mounting hooks (see figure 17, **1**) and push speaker towards the wall until the Security Pin locks into the Security Pin Hook (**2**).

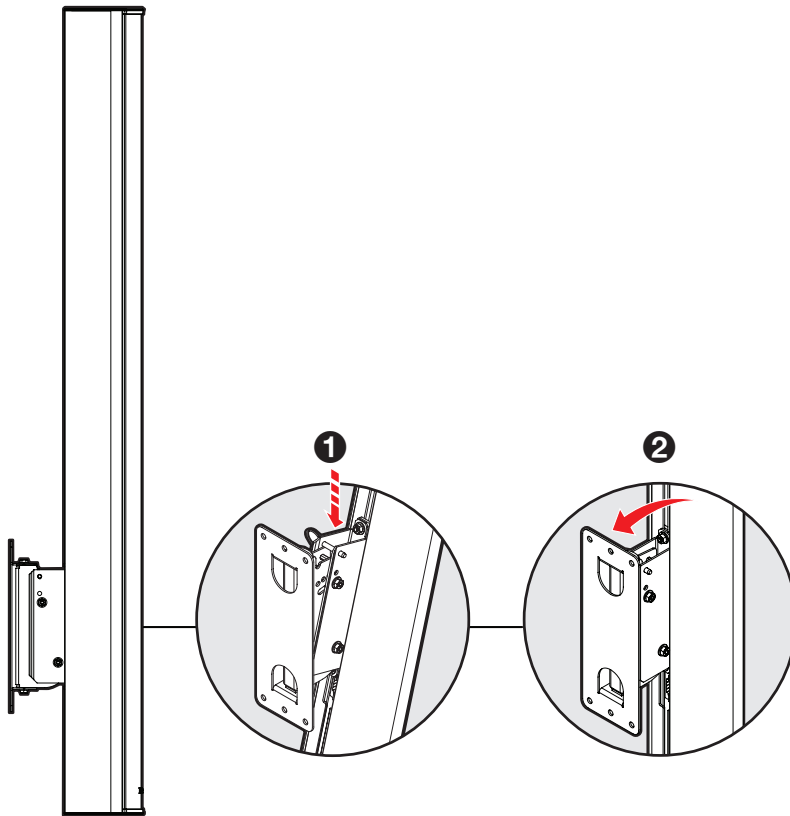


Figure 17. Attach Speaker to Wall Mount

3. The speaker is now fully supported by the wall mount, though not fully secured. Refer to [Adjusting the Pan-Tilt Bracket Angles](#) on page 13 for the next steps.

Adjusting the Pan-Tilt Bracket Angles

Adjusting Tilt Angle

If the speaker is to be set at 0°, then insert an Angle Set Screw in the 0° hole of the Wall Bracket Assembly through the Speaker Bracket.

If the speaker is to be set at an angle of 5, 10, or 15°, gently pull speaker from the top to free the Security Pin from the Security Pin Hook. Align Speaker Bracket with the Wall Bracket Assembly to the required angle. Set in place with the top Angle Set Screw and secure with a washer and nut. Do not allow the speaker to tilt forward more than 15° during this operation.

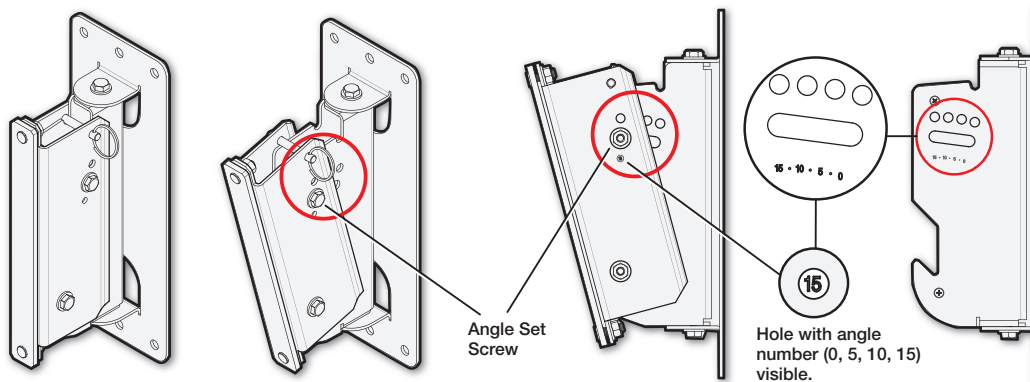


Figure 18. Set Tilt Angle with Angle Set Screw

If the speaker is to be set at an angle other than one of the presets, insert the Angle Set Screw through the angle adjustment slot (see figure 19). Position speaker at required angle and tighten Angle Set Screw to 85-90 in-lb (7.0- 7.5 ft-lb) (9.6 - 10.1 N-m) to secure.

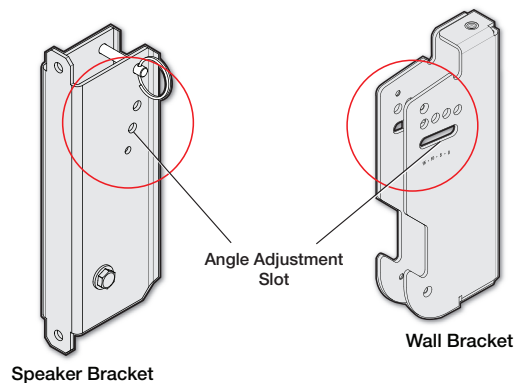


Figure 19. Angle Adjustment Slot

Adjusting Pan Angle

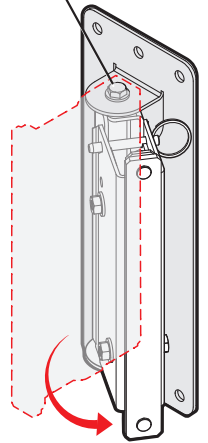
Set the speaker pan angle and tighten Pan Angle Set Screws (top and bottom, see diagram on the right).

The speaker can be adjusted up to 74° to the left or right when the tilt angle is set to 0°. Tighten Pan Angle Set Screws to 35-40 in-lb (2.9- 3.3 ft-lb) (3.9 – 4.5 N-m).

NOTE: There may be limitations to the maximum pan angle that can be set, based on available space and amount of tilt. See the table below for more details.

SMK PT CA Maximum Pan Angle				
	0° Down-Tilt	5° Down-Tilt	10° Down-Tilt	15° Down-Tilt
Position A	± 74°	± 71°	± 66°	± 56.5°
Position B	± 74°	± 63.5°	N/A	N/A

Pan Angle Set Screws
(top and bottom)



Secondary Tie-off

The Secondary Tie-off option secures the speaker to a suitable anchor point on the wall or ceiling. It is included for regions that require it.

1. Slide the Secondary Tie-off assembly into the top end of the T-slot.
2. Tighten nut to secure the assembly in place.
3. Attach tie cable to building structure.

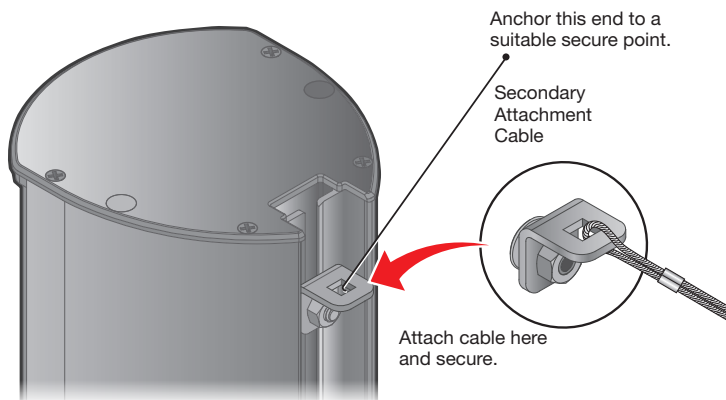


Figure 20. Secure Secondary Tie-off

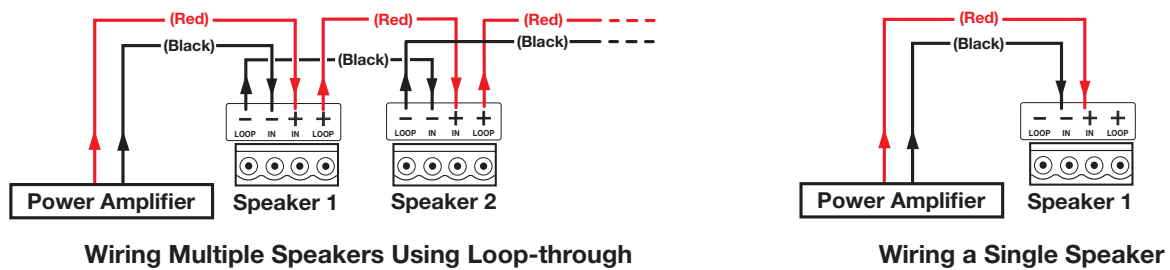
Reference Information

This section includes:

- [Speaker Wiring Options](#)
- [Mounting Template Diagram](#)
- [Upward Tilt Mounting for SMK LP CA](#)

Speaker Wiring Options

Use one of the following two methods to attach the speaker wires to the captive screw connector (see figure 21).



When a chain of speakers is wired this way, disconnecting one speaker removes power from all downstream speakers.

Figure 21. Speaker Wiring Options

NOTES:

- Be sure to observe the rated minimum load impedance of the amplifier when daisy-chaining multiple speakers.
- The connector can support wire gauges up to 12 AWG.

Mounting Template Diagram

NOTE: This image is NOT to scale.

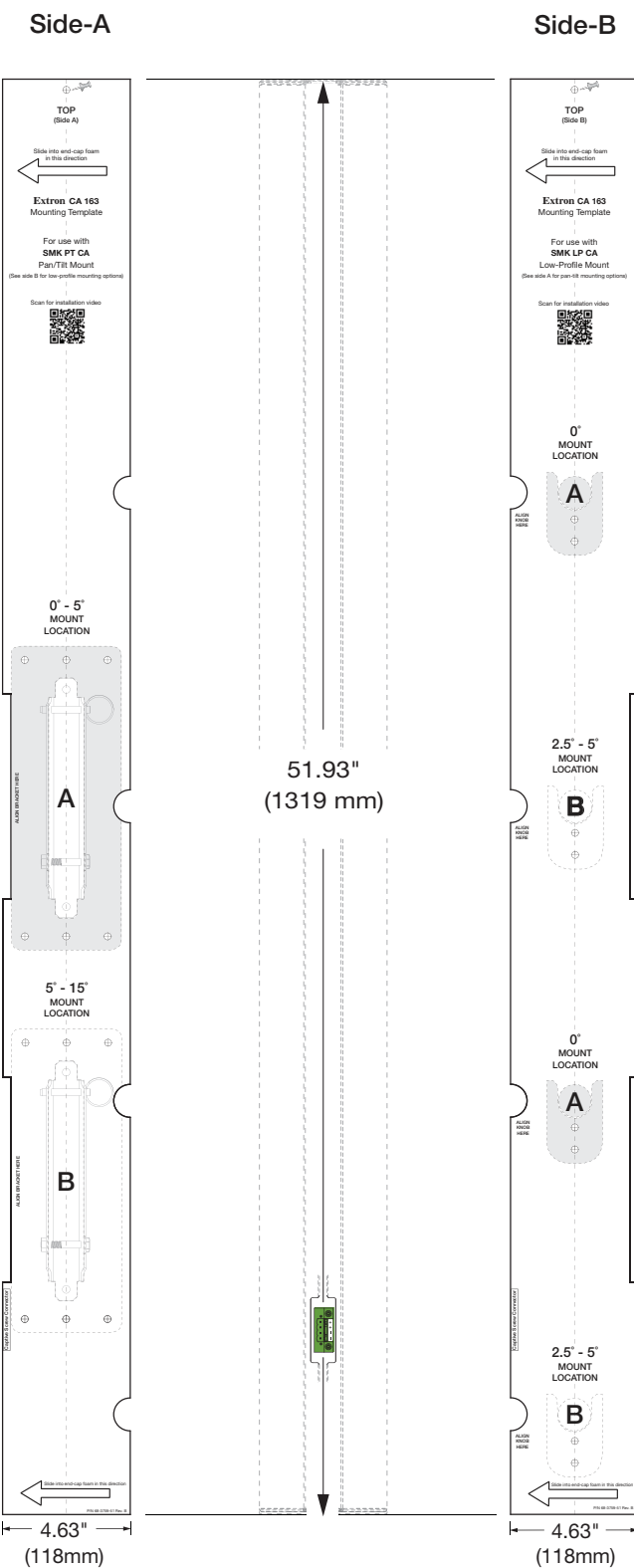


Figure 22. Mounting Template Diagram - NOT TO SCALE

Upward Tilt Mounting for SMK LP CA

For an upward-tilt low-profile mount, continue from [step 4](#) on page 7:

1. Align the top end of the mounting template, side “B”, with the the bottom end of the speaker (the end closest to the input connector).
2. Find the slotted grooves on the foam end pieces and slide in the template.
3. Move the Primary Knobs to the “B” positions on the template and secure. Tighten the knobs an additional quarter turn for safety.
4. Add one or both Extension Knobs to the bottom Primary Knob (about the middle of the speaker).

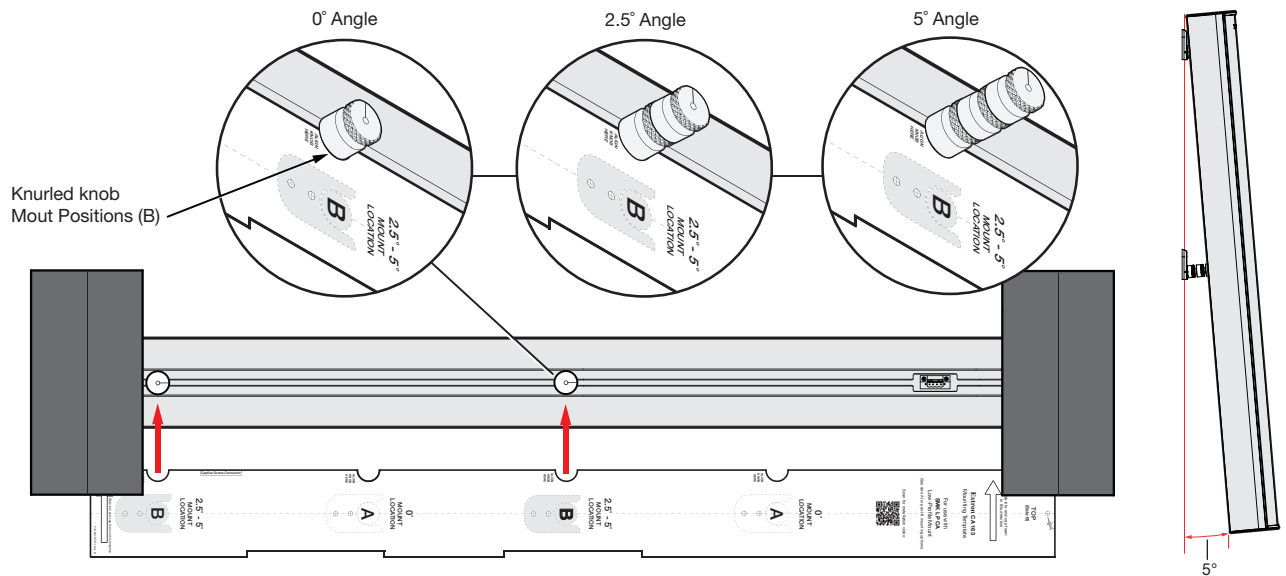


Figure 23. Align and Secure Knurled Knobs for Upward Tilt

5. Continue to [Mounting the Speaker onto the Wall Brackets](#) on page 8.

Extron Warranty

Extron warrants this product against defects in materials and workmanship for a period of five years from the date of purchase. In the event of malfunction during the warranty period attributable directly to faulty workmanship and/or materials, Extron will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is returned within the warranty period, with proof of purchase and description of malfunction to:

**USA, Canada, South America,
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1230 South Lewis Street
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Singapore

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Chiyoda-ku, Tokyo 102-0082
Japan

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3825 PH Amersfoort
The Netherlands

China:

Extron China
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Songjiang District
Shanghai 201611
China

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NOTE: If a product is defective, please call Extron and ask for an Application Engineer to receive an RA (Return Authorization) number. This will begin the repair process.

USA: 714.491.1500 or 800.633.9876

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Japan: 81.3.3511.7655

Africa and Middle East:

971.4.299.1800

Units must be returned insured, with shipping charges prepaid. If not insured, you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the name of the person to contact in case there are any questions.

Extron Electronics makes no further warranties either expressed or implied with respect to the product and its quality, performance, merchantability, or fitness for any particular use. In no event will Extron Electronics be liable for direct, indirect, or consequential damages resulting from any defect in this product even if Extron Electronics has been advised of such damage.

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