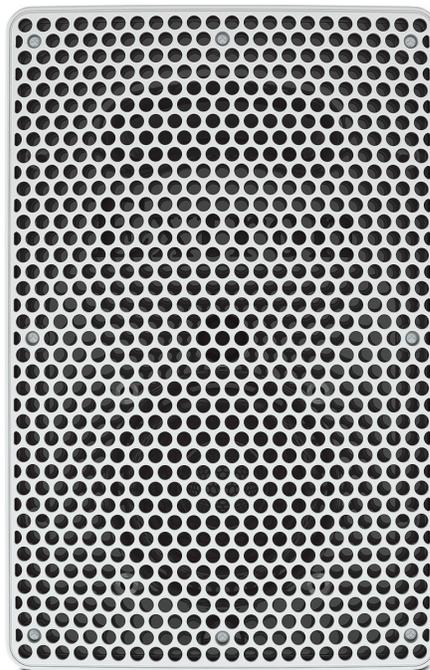# SM 3
SpeedMount® Surface Mount Speakers

Extron® Electronics
INTERFACING, SWITCHING AND CONTROL

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**.

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 le matériel.

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.fr**.

Sicherheitsanweisungen • Deutsch

WARNUNG: Dieses Symbol ⚠ auf dem Produkt soll den Benutzer darauf aufmerksam machen, dass im Inneren des Gehäuses dieses Produktes gefährliche Spannungen herrschen, die nicht isoliert sind und die einen elektrischen Schlag verursachen können.

VORSICHT: Dieses Symbol ⚠ auf dem Produkt soll dem Benutzer in der im Lieferumfang enthaltenen Dokumentation besonders wichtige Hinweise zur Bedienung und Wartung (Instandhaltung) geben.

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.de**.

Instrucciones de seguridad • Español

ADVERTENCIA: Este símbolo, ⚠, cuando se utiliza en el producto, avisa al usuario de la presencia de voltaje peligroso sin aislar dentro del producto, lo que puede representar un riesgo de descarga eléctrica.

ATENCIÓN: Este símbolo, ⚠, cuando se utiliza en el producto, avisa al usuario de la presencia de importantes instrucciones de uso y mantenimiento recogidas 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.es**.

Chinese Simplified（简体中文）

警告：⚠产品上的这个标志意在警告用户该产品机壳内有暴露的危险电压，有触电危险。

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。

关于我们产品的安全指南、遵循的规范、EMI/EMF 的兼容性、无障碍使用的特性等相关内容，敬请访问 Extron 网站 **www.extron.cn**，参见 Extron 安全规范指南，产品编号 68-290-01。

Chinese Traditional（繁體中文）

警告: ⚠若產品上使用此符號,是為了提醒使用者,產品機殼內存在著可能會導致觸電之風險的未絕緣危險電壓。

注意 ⚠ 若產品上使用此符號,是為了提醒使用者。

有關安全性指導方針、法規遵守、EMI/EMF 相容性、存取範圍和相關主題的詳細資訊，請瀏覽 Extron 網站：**www.extron.cn**，然後參閱《Extron 安全性與法規遵守手冊》，準則編號 68-290-01。

Japanese

警告: この記号 ⚠ が製品上に表示されている場合は、筐体内に絶縁されていない高電圧が流れ、感電の危険があることを示しています。

注意: この記号 ⚠ が製品上に表示されている場合は、本機の取扱説明書に記載されている重要な操作と保守(整備)の指示についてユーザーの**注意**を喚起するものです。

安全上のご注意、法規厳守、EMI/EMF適合性、その他の関連項目については、エクストロンのウェブサイト**www.extron.jp**より『Extron Safety and Regulatory Compliance Guide』(P/N 68-290-01) をご覧ください。

Korean

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

주의: 이 기호 ⚠,가 제품에 사용될 경우, 장비와 함께 제공된 책자에 나와 있는 주요 운영 및 유지보수(정비) 지침을 경고합니다.

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

Conventions Used in this Guide

Notifications

The following notifications are used in this guide:

> **CAUTION:** A caution indicates a situation that **may** result in minor injury.

> **ATTENTION:** Attention indicates a situation that may damage or destroy the product or associated equipment.

> **NOTE:** A note draws attention to important information.

Specifications Availability

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

Contents

Introduction

This user guide contains information about the Extron SM 3 SpeedMount Surface Mount Speaker.
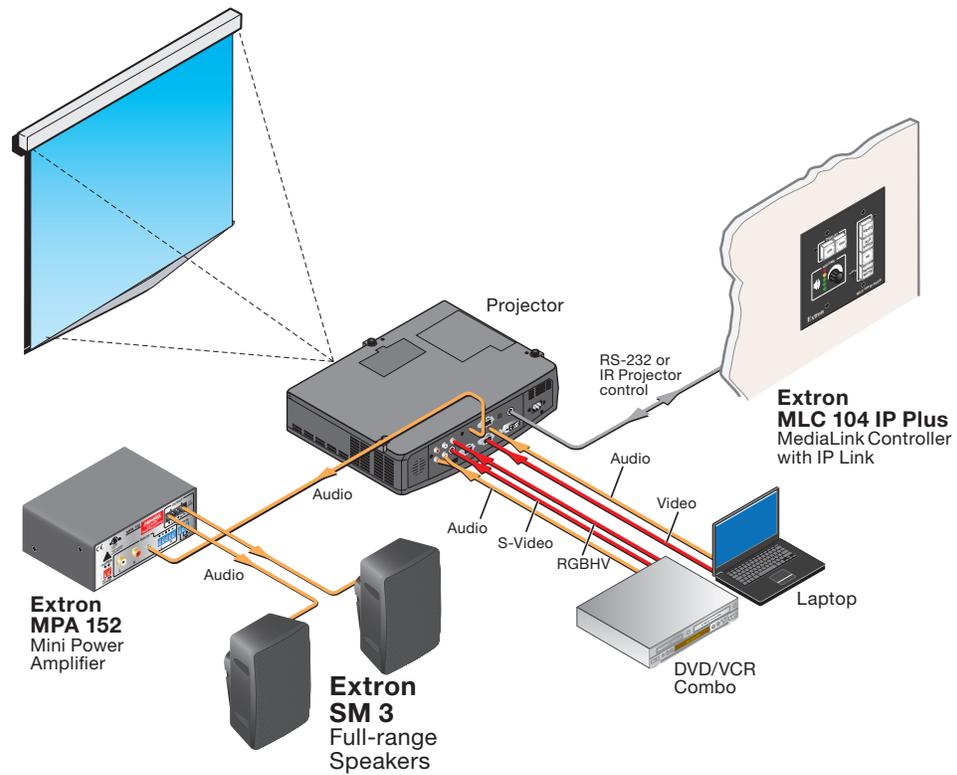
About the SM 3 Speaker

The SM 3 speaker is a low profile surface-mount speaker system that features a three-inch full-range driver with very wide audio dispersion. Speaker mounting incorporates a separate mounting plate that can be attached directly to a wall or to an electrical box behind the wall. The speaker wiring attaches to the mounting plate so that the speaker can easily slide into the mounting plate, making electrical contact between the plate and the contacts on the speaker. A built-in locking mechanism between the speaker and the mounting plate also prevents the speaker from being removed by unauthorized personnel. The speaker may be easily removed by depressing a hidden release mechanism that does not require tools.

Features

- **Concealed mounting system** — Exclusive concealed mounting system included with 0° and 10° mounting plates.
- **Mounting plate** — Each speaker comes with a mounting plate that accommodates both American (3.25 inches) and European (60 mm) electrical boxes. Two types of mounting plates are provided with each speaker for both a flat (ADA compliant – protruding less than four inches off of the wall) and an angled (10°) mounting profile.
- **3-inch driver with paper cone** — Full range with a wide audio dispersion.
- **Rated power** — 15 W continuous pink noise (per IEC 60268-5); 30 W continuous program.
- **Frequency response** — 75 Hz to 18 kHz, -10 dB (full space)
- **Bass-reflex, UV stabilized, flame retardant PC/ABS plastic enclosure**
- **Color options** — Available in black or white finishes.
- **Automatic speaker connection** — Recessed gold-plated contact pins integrated into each speaker automatically make an electrical connection when the speaker is mounted to the wall mounting plate.
- **Hidden release mechanism** — The speaker automatically locks on to the wall mounting adapter to prevent tampering, but a hidden release mechanism allows the speaker to be quickly unlocked without the use of tools.
- **Security key** — A special key allows the speaker to be locked or unlocked to the mounting plate.

Application Example

The illustraion below is one example of configuring a system using the SM 3 speakers.

Projector

RS-232 or
IR Projector
control

**Extron
MLC 104 IP Plus**
MediaLink Controller
with IP Link

Audio

Audio

Video

Audio

Audio

S-Video

RGBHV

Laptop

**Extron
MPA 152**
Mini Power
Amplifier

Audio

**Extron
SM 3**
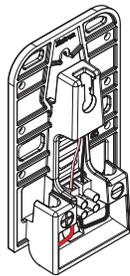Full-range
Speakers

DVD/VCR
Combo

Installation

The Installation section describes:

- **Installing the Speaker Mounting Plate**
- **Attaching the Speaker to the Mounting Plate**
- **Removing the Speaker from the Mounting Plate**
- **Attaching a Secondary Support Cable**
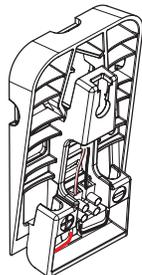
Installing the Speaker Mounting Plate

The SM 3 speaker comes with two types of speaker mounting plates:

- **0° plate** — The 0° plate allows the speaker to be mounted flat on a vertical wall with the speaker protruding less than four inches (ADA compliant) from the wall surface (see the illustration below).
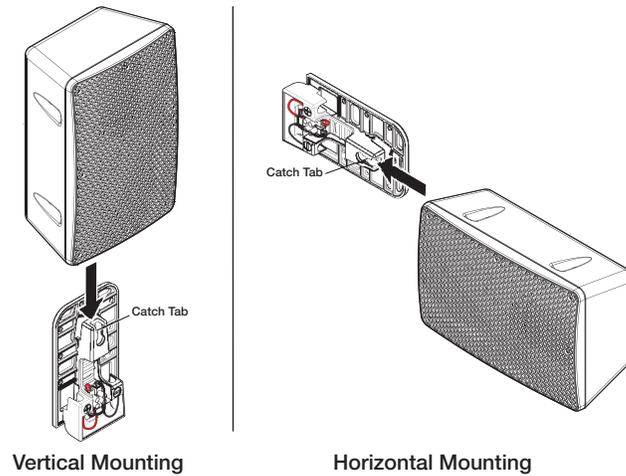
0° Mounting Plate

- **10° mounting plate** — The 10° mounting plate allows the speaker to be installed at a 10 degree angle so that the speaker can be pointed down from an elevated position (see the illustration below).
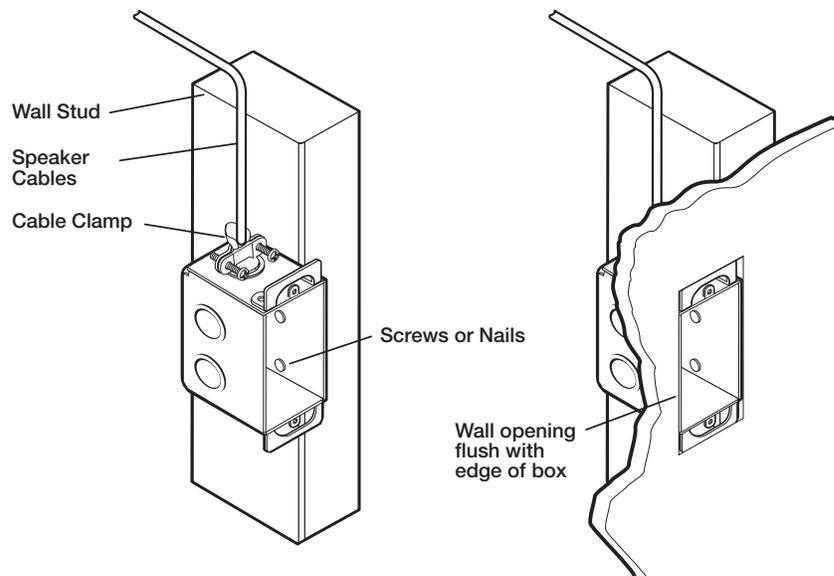
10° Mounting Plate

The mounting plate can be installed vertically or horizontally.

Catch Tab

Catch Tab

Vertical Mounting   **Horizontal Mounting**

The mounting plate can be installed to a wall box (see "Mounting to a Wall Box" below) or to a wall stud (see "Mounting to a Wall Stud" on the following page).

Mounting to a Wall Box

> **NOTE:** Mounting hardware is not provided.

Wall Stud

Speaker
Cables

Cable Clamp

Screws or Nails

Wall opening
flush with
edge of box

1. Install the speaker cables into the wall or conduit before installing the wall box.
2. Place the wall box against the installation surface, and mark the guidelines for the opening on the wall.
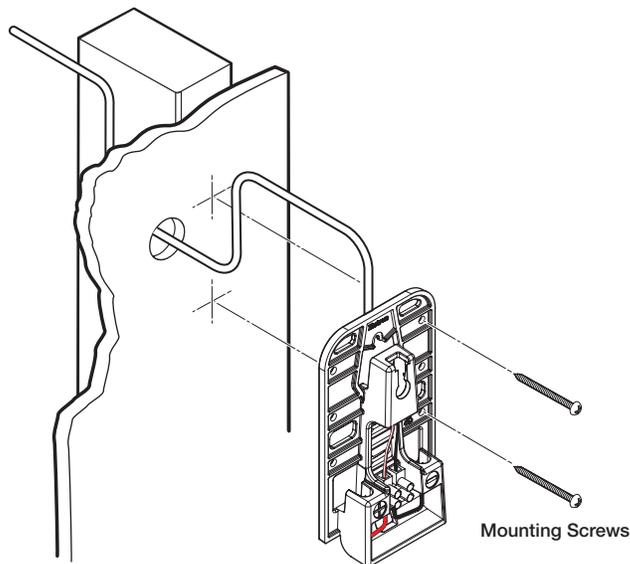
3. Cut the material from the marked area.

4. Insert the wall box to check the size of the opening and fit. Enlarge or smooth the edges of the opening if needed.

5. Feed cables through punch-out holes of the wall box leaving enough slack for the speaker connections and secure them with cable clamps to provide strain relief.

6. Insert the wall box into the opening and attach it to the wall or stud, leaving the front edge flush with the outer wall.

7. To attach a wall box to wood, use four #8 or #10 screws or 10-penny nails. A minimum of 1/2 inch (1.3 cm) of screw threads must penetrate the wood.

Mounting to a Wall Stud

> **NOTE:** Mounting hardware is not provided.

1. Install the speaker cables into the wall or conduit before installing the speaker mounting plate.

2. Locate the wall stud where the mounting plate will be installed and while positioning the mounting plate over the wall stud, mark the location of two pilot holes. Use the holes on either side of the mounting plate so that the stud does not interfere with the speaker wire routing, as shown below.

   > **NOTE:** A speaker wire access hole (see below) must also be cut in the wall, so mark that hole location now with the mounting plate positioned on the wall, while ensuring that the wall stud does not interfere with the wire routing and that the mounting plate hides the access hole.

Mounting Screws

3. Drill the mounting plate pilot holes and cut the speaker wire access hole, as previously marked.

4. Route the speaker cables through the wall without snagging, being sure to leave enough slack to connect the wires to the mounting plate.
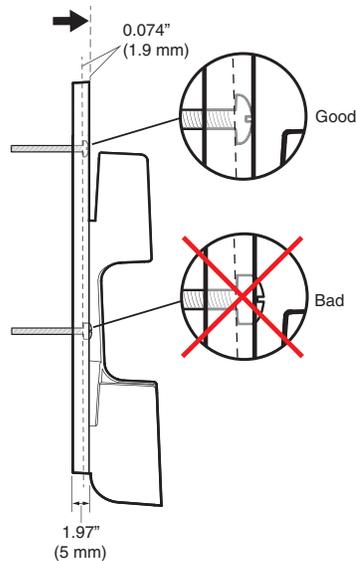
Wiring the Speaker Mounting Plate

> **NOTE:** Mounting hardware is not provided.

1. Route the two speaker wires through the rear of the mounting plate and attach the wire ends to the quick connect contacts using a small screwdriver (see the illustration below). Be sure to observe the correct polarity.

   > **NOTE:** The positive (+) connector and the negative (-) connector are marked on the mounting plate.
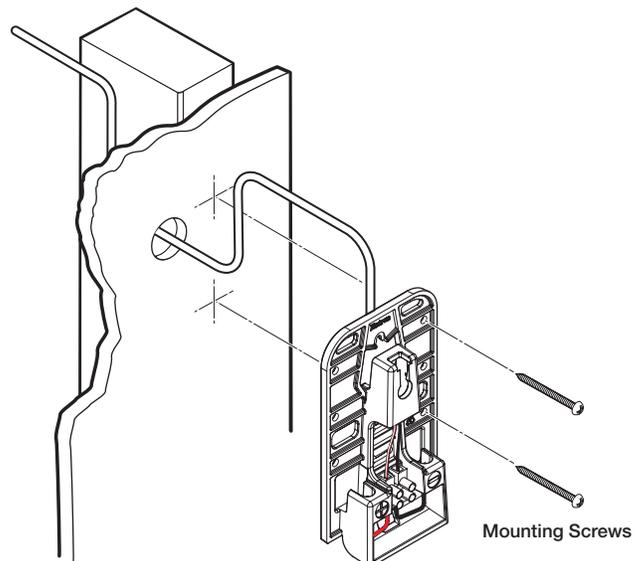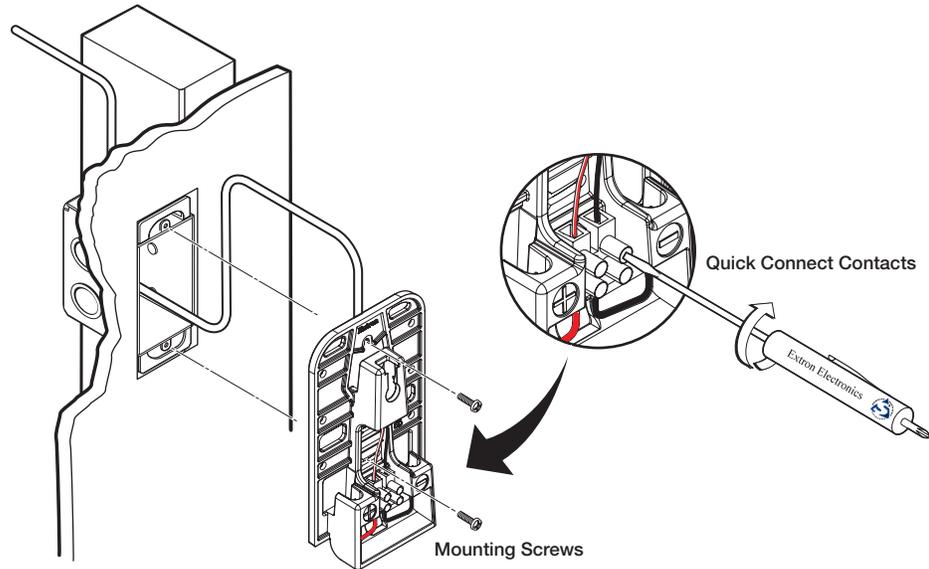
   > **ATTENTION:** Use the appropriate mounting screws. The screw heads must not protrude more than .074" (1.9 mm) above the screw holes in the mounting plate. If the screw head protrudes too far above the mounting plate surface, damage to the speaker may occur when the speaker is attached (see the figure below).
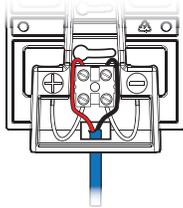
2. Attach the mounting plate to the wall, using two mounting screws (see the illustrations below).

> **NOTE:** The mounting screw holes in the mounting plate allow for some degree of play and lateral movement so that the mounting screws may be aligned properly with the screw holes of the wall box.

> **ATTENTION:** Make sure that the wall box is secured to the wall structure and can handle the weight of the speaker. If there is doubt, secure the mounting plate with additional mounting screws. The wall stud mounting holes can be used for this purpose.
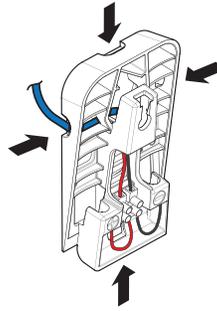
Quick Connect Contacts

Mounting Screws

Mounting Screws

NOTE: When mounting to surfaces that do not allow wires to be routed from behind (such as on masonry or concrete walls) and the wires are routed to the speakers via a raceway, use the alternate access points to run the wires to the quick connect speaker contacts (see the figures below).

OR

0° Mounting Plate
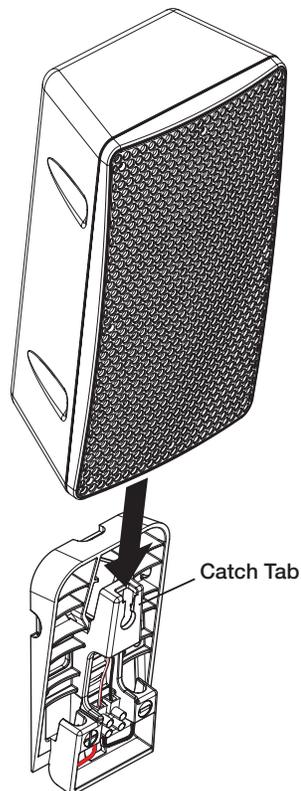Alternate Access Point

10° Mounting Plate
Alternate Access Points

Attaching the Speaker to the Mounting Plate

Step 1: Attaching the Speaker

> **NOTE:** If a secondary attachment point is being used, see the "**Attaching a Secondary Support Cable**" section on page **12** for installation details before proceeding further.

> **ATTENTION:** By default, the SM 3 speaker is shipped unlocked. When mounting the speaker to the mounting plate, be sure that the speaker is unlocked. Failure to place the speaker in the unlocked position will result in damage to the speaker lock mechanism should an attempt be made to mount a locked speaker (see **"Step 2: Using the Security Key to Lock and Unlock the Speaker**" on page **10**).

Position the rear mounting slot of the speaker above the catch tab of the mounting plate, then slide the speaker down into the mounting plate until a click is heard indicating that the speaker is secured in place (see figure below). When properly seated, the speaker connections are automatically made. Horizontal mounting is similar with only the orientation of the speaker being different.
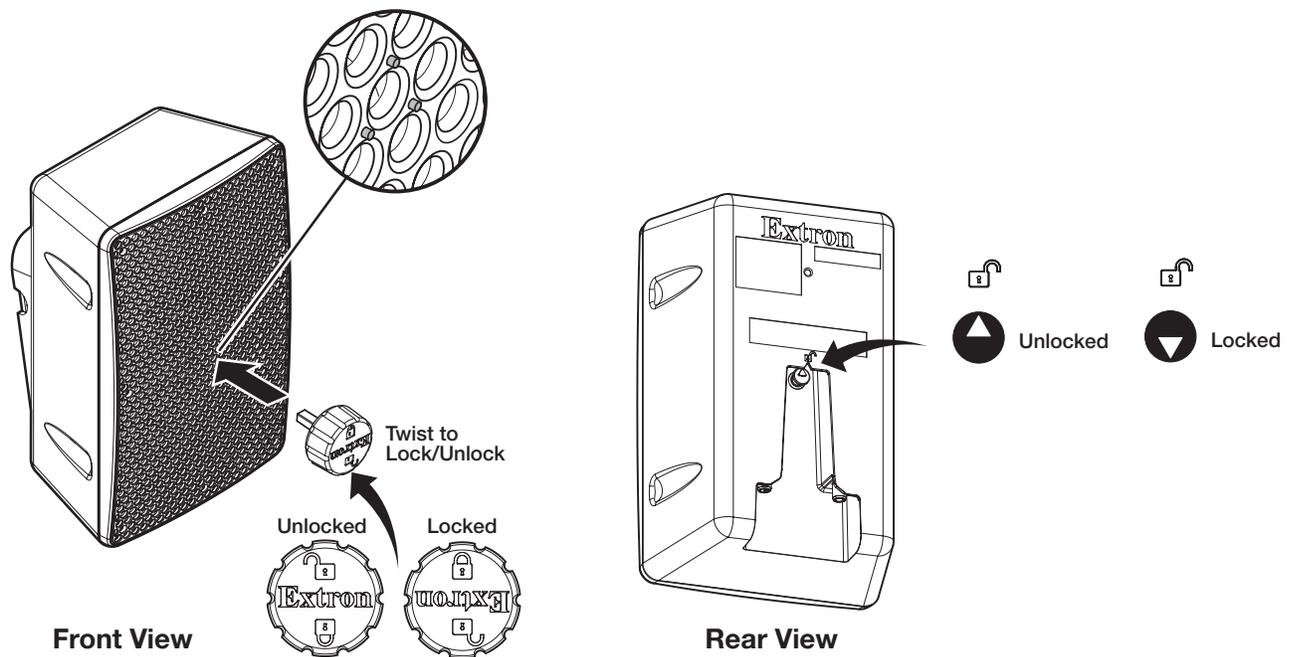
Catch Tab

Step 2: Using the Security Key to Lock and Unlock the Speaker

The SM 3 speaker uses an included security key to lock and unlock the speaker to its mounting plate (see the illustration below). The key has two positions: lock and unlock. The active position of the key is nearest the top of the speaker.

Insert the key into the center of the speaker grill and turn the key, as needed, so that the speaker is in the unlocked position (see the figure below). There are three small raised "dimples" on the grill surface that surround the keyhole. Repeat this procedure, but set the key to the locked position to lock the speaker.

> **CAUTION:** The key must be rotated to the unlocked postion before the speaker is attached to the mounting plate. Failure to place the speaker in the unlocked position will result in damage to the speaker lock mechanism should an attempt be made to mount the speaker.
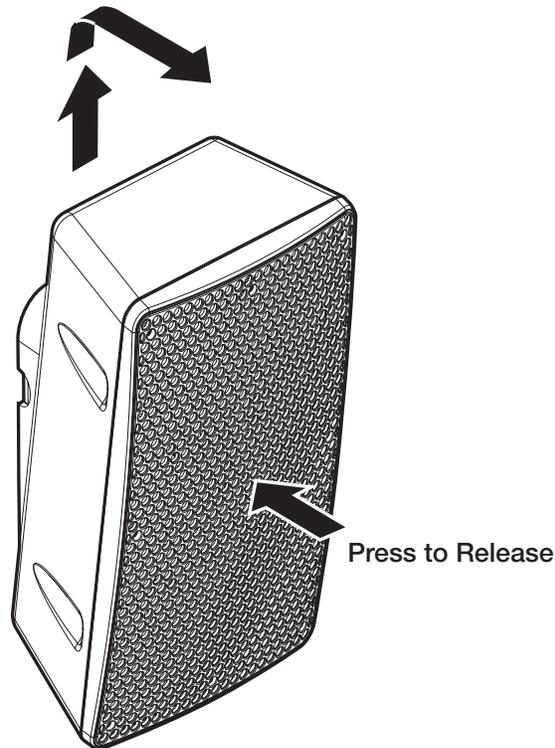
> **NOTE:** To avoid misplacing the key, store the key in a secure location for future use.

Front View

Twist to Lock/Unlock

Unlocked   Locked

Rear View

Unlocked   Locked

Removing the Speaker from the Mounting Plate

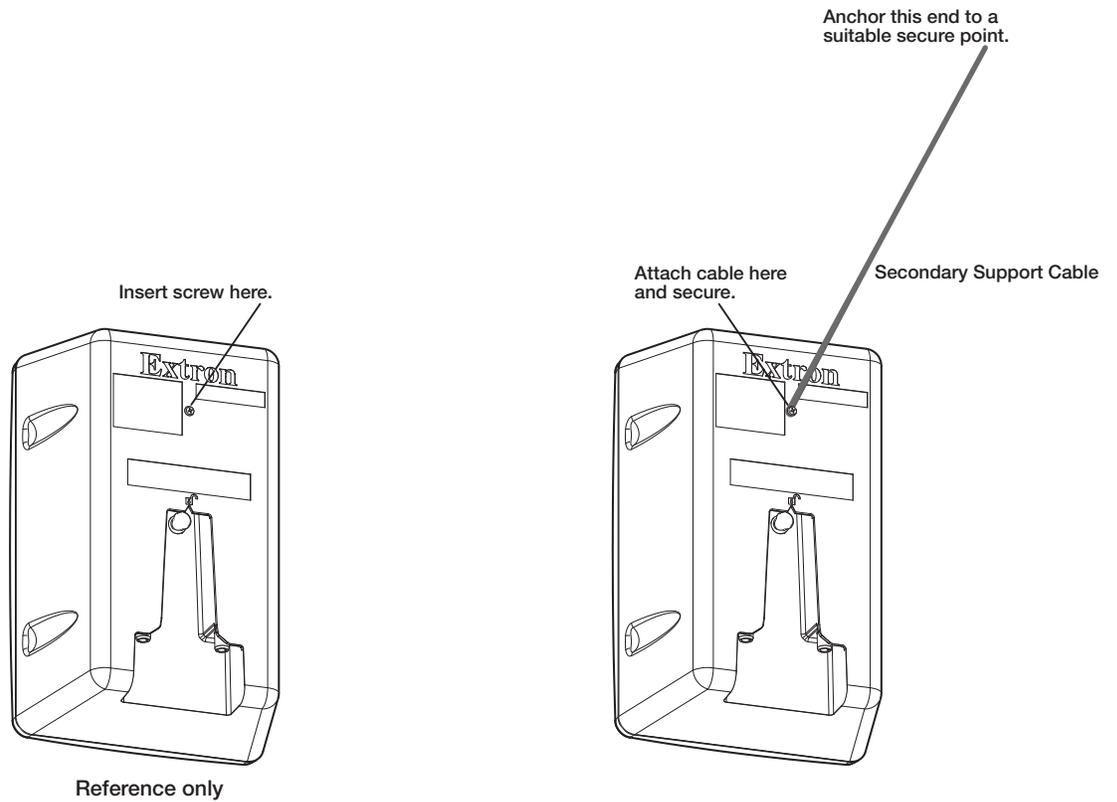To remove the speaker from the mounting plate, you must unlatch the locking mechanism:

1. Insert the security key into the keyhole of the speaker grill (see "**Step 2: Using the Security Key to Lock and Unlock the Speaker**" on page **10**) and turn the key to the unlock position.

2. Remove the security key.

3. Apply pressure with your finger over the keyhole to unlatch the speaker from the mounting plate while lifting up on the speaker (see the illustration below).

Press to Release

CAUTION: To avoid damaging or scratching the grill finish, do not use tools or sharp instruments to depress the unlocking mechanism hidden behind the center of the grill.

Attaching a Secondary Support Cable

If a secondary support cable is being attached, use the included screw to attach a suitable cable to the screw hole, as shown below.
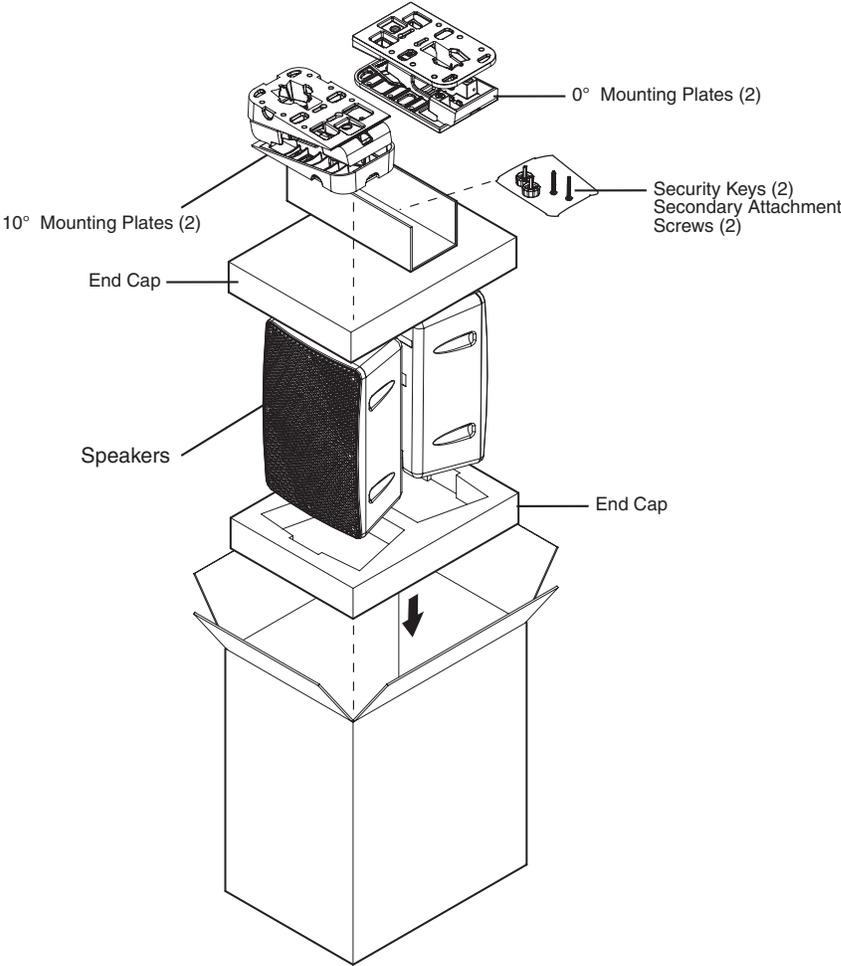
Anchor this end to a
suitable secure point.

Insert screw here.

Attach cable here
and secure.

Secondary Support Cable

Reference only

Reference
Information

The Reference Information section describes:

- **Packaging**

Packaging

Extron Warranty

Extron Electronics 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 Electronics 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,
and Central America:
Extron Electronics
1230 South Lewis Street
Anaheim, CA 92805
U.S.A.

Europe and Africa:
Extron Europe
Hanzeboulevard 10
3825 PH Amersfoort
The Netherlands

Asia:
Extron Asia Pte Ltd
135 Joo Seng Road, #04-01
PM Industrial Bldg.
Singapore 368363
Singapore

Japan:
Extron Electronics, Japan
Kyodo Building, 16 Ichibancho
Chiyoda-ku, Tokyo 102-0082
Japan

China:
Extron China
686 Ronghua Road
Songjiang District
Shanghai 201611
China

Middle East:
Extron Middle East
Dubai Airport Free Zone
F12, PO Box 293666
United Arab Emirates, Dubai

This Limited Warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, abnormal operating conditions, or if modifications were made to the product that were not authorized by Extron.

> **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 | **Europe:** | 31.33.453.4040 |
> | **Asia:** | 65.6383.4400 | **Japan:** | 81.3.3511.7655 |

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.

Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.