

ATB 100 Amplifier Mounting Kit Setup Guide

IMPORTANT NOTE:

Read all [installation instructions](#) and notices before installing the equipment.

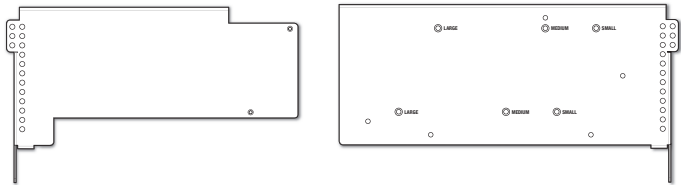
Go to www.extron.com for the complete ATB 100 product specifications.



Product Description

The ATB 100 amplifier mounting kit is an adjustable two-piece metal bracket, used to mount plenum-rated audio amplifiers above ceiling tiles with ceiling speakers that utilize Extron C-ring and V-rail tile bridges. The mounting bracket length is adjustable to accommodate different rail-to-rail spacings: 10 inches (254 mm) to 16 inches (406 mm) for 3-inch, 6.5-inch, and 8-inch ceiling speakers. It is secured to the ceiling mount V-rails. A secondary attachment point is provided for seismic security.

The ATB 100 mounts directly to speaker tile bridges for the SF 3C LP, SF 3CT LP, SF 26X (SMK C TB-1), SF 26CT LP, CS 3T, CS 26T Plus (SMK C TB-2), and SF 8CT SUB.



Installation

WARNING:

AVERTISSEMENT :

- **Potential risk of severe injury:** Installation and service must be performed by authorized personnel only.
- **Risque potentiel de blessure grave ou de mort:** L'installation et l'entretien doivent être effectués uniquement par un technicien qualifié.
- Properly suspending equipment requires training and expertise. Improper rigging of suspended equipment can cause the speaker to fall, resulting in death, personal injury, equipment damage, and legal liability. Installation must be carried out by fully qualified installers, in accordance with all required safety codes and standards at the place of installation.
- Il est indispensable de disposer de compétences techniques pour pouvoir suspendre l'équipement. Une manipulation incorrecte de l'équipement suspendu peut provoquer la chute de l'enceinte, entraînant la mort, des lésions corporelles, des dégâts matériels, et engageant la responsabilité d'un individu. L'installation doit être effectuée par des installateurs hautement qualifiés, conformément à l'ensemble des codes et des normes de sécurité réglementaires sur le lieu de l'installation.
- The legal requirements for suspending equipment vary from country to country. Extron strongly recommends that you consult your local safety standards office before installing any product. Extron also recommends that you thoroughly check any laws and bylaws prior to installation.
- Les conditions juridiques relatives à la suspension d'équipements varient de pays en pays. Extron vous recommande vivement de consulter les standards de sécurité en vigueur dans votre pays avant d'installer un produit. Extron vous recommande également de vérifier minutieusement toute loi et tout règlement avant l'installation.

The ATB 100 is adjustable for attachment to a ceiling mounted speaker tile bridge. Audio power amplifiers products rated for use in the plenum are mounted directly to the bracket via three product grooves using two supplied #4-40 x 3/16 inch screws. The ATB 100 accommodates 1U products weighing less than 5 pounds (2.3 kg) each.

The ATB 100 Amplifier Mounting Kit package includes brackets and screws to assemble and attach to an Extron speaker tile bridge. The package also contains additional screws to mount equipment to the bracket. The kit is composed of:

- 1 large L-bracket, one small L-bracket,
- (4) #4-40 by 3/16 inch black flat top machine screws
- (4) 8 inches long by 0.1 inches wide (203.2 mm by 2.54 mm) black nylon zip ties
- 4 magnetic pins

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To install the ATB 100:

⚠ WARNING: The final installation should be able to continuously support the speaker weight. The final installation should also be able to support short term overloading. Be sure to not exceed the load limit of the mounting surface and ATB 100. Since applications can vary considerably, it is assumed that the installer will exercise good judgment when selecting the mounting location, method, and hardware. Installation and service must be performed by authorized personnel only.

AVERTISSEMENT : L'installation finale doit pouvoir supporter en permanence le poids de l'enceinte. L'installation finale doit également pouvoir supporter une courte surcharge. Veillez à ne pas dépasser la charge maximale du support de la surface de montage et de l'unité ATB 100. Étant donné la possibilité d'évolution considérable des applications, il est supposé que l'installateur fera preuve de discernement lors de la sélection de l'emplacement, du mode, et du matériel de montage. L'installation et la maintenance du système doivent être exclusivement effectuées par un technicien agréé.

1. Assemble and install the C-ring and V-rails as described in the product user guides.

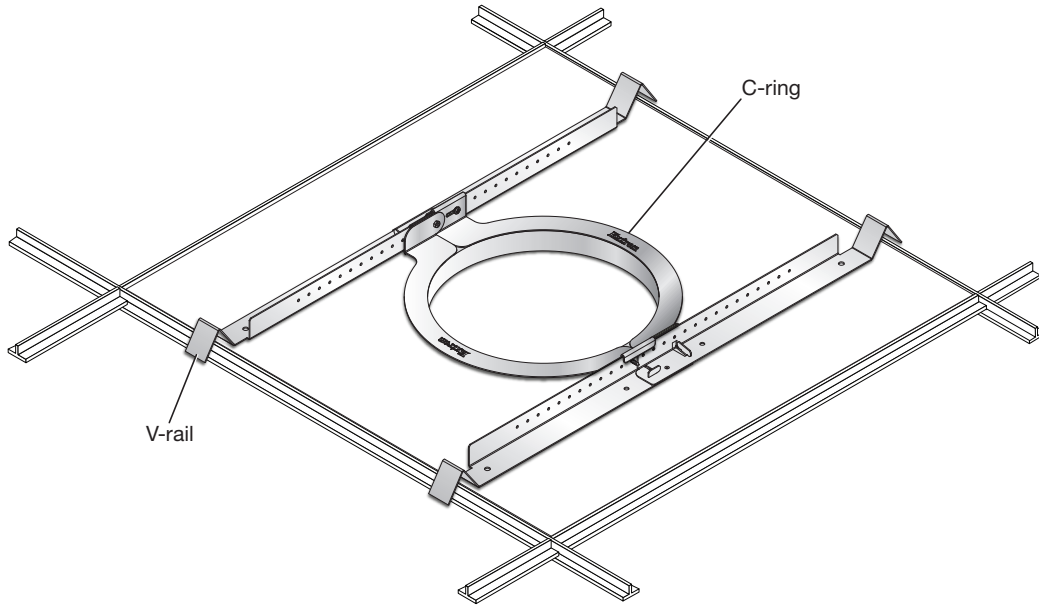


Figure 1. V-rails and C-ring Installed

2. Slide the short L-bracket **A** under the long L-bracket **B** until the two holes in **A** align with the appropriate two holes in **B** (labeled LARGE, MEDIUM, or SMALL, see figure 2).

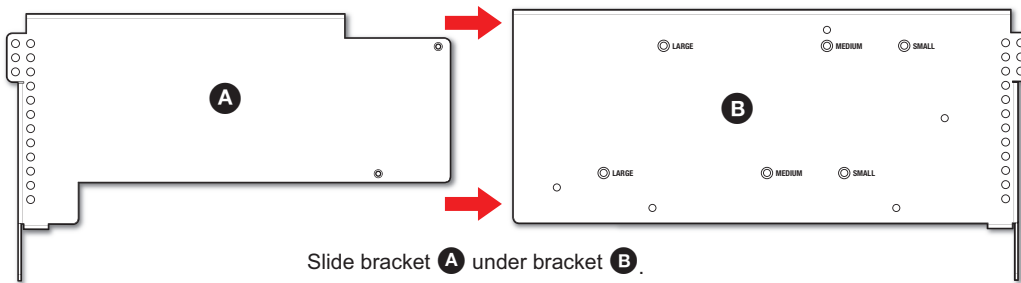


Figure 2. Slide the Short L-bracket under the Long L-bracket

The holes labeled LARGE fit over the V-rails for the **SF 8CT_SUB** (8-inch speakers), the holes marked MEDIUM fit over the **SF 26CT** and the **SF 26CT LP** (6-inch speakers), and the holes labeled SMALL fit over the **SF 3CT** (3-inch speaker).

Large	Medium	Small
SF 8CT SUB	SF 26CT	SF 3CT LP
	SF 26CT LP	SF 26X
	SMK C TB-2	SMK C TB-1
	CS 26T Plus	
	CS 3T	

3. Use two of the supplied #4-40 by 3/16 inch screws to attach the short L-bracket (see [figure 2, A](#) on the previous page) to the long bracket ([B](#)) via the pre-drilled alignment screw holes. In the example in figure 3, the screws are being inserted into the holes labeled **SMALL** for use with a 3-inch speaker.

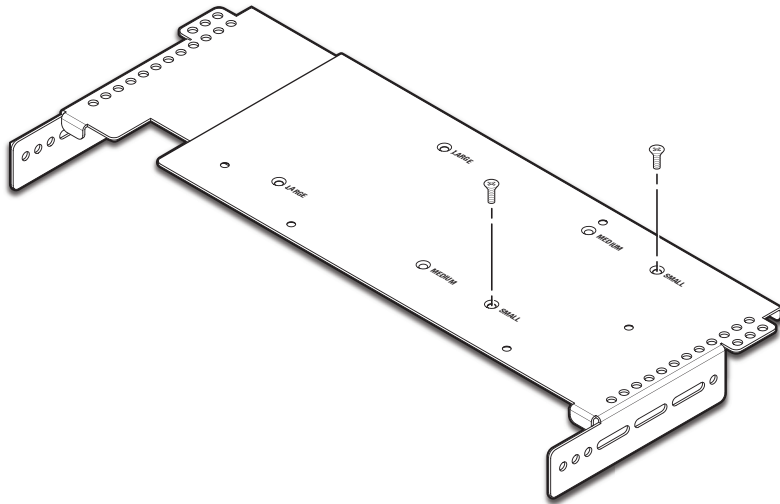


Figure 3. Attach the Two L-brackets Together

4. Mount the amplifier to the ATB 100:
 - a. Turn the amplifier and the ATB 100 upside-down, and place the brackets over the bottom of the amplifier, aligning the appropriate holes in the ATB 100 with those on the bottom of the amplifier.
 - **Quarter-rack amplifier** — Mount the amplifier to the bracket using two of the supplied #4-40 x 3/16 inch screws, through the two holes labeled 1/4 RACK on the back side of the bracket.

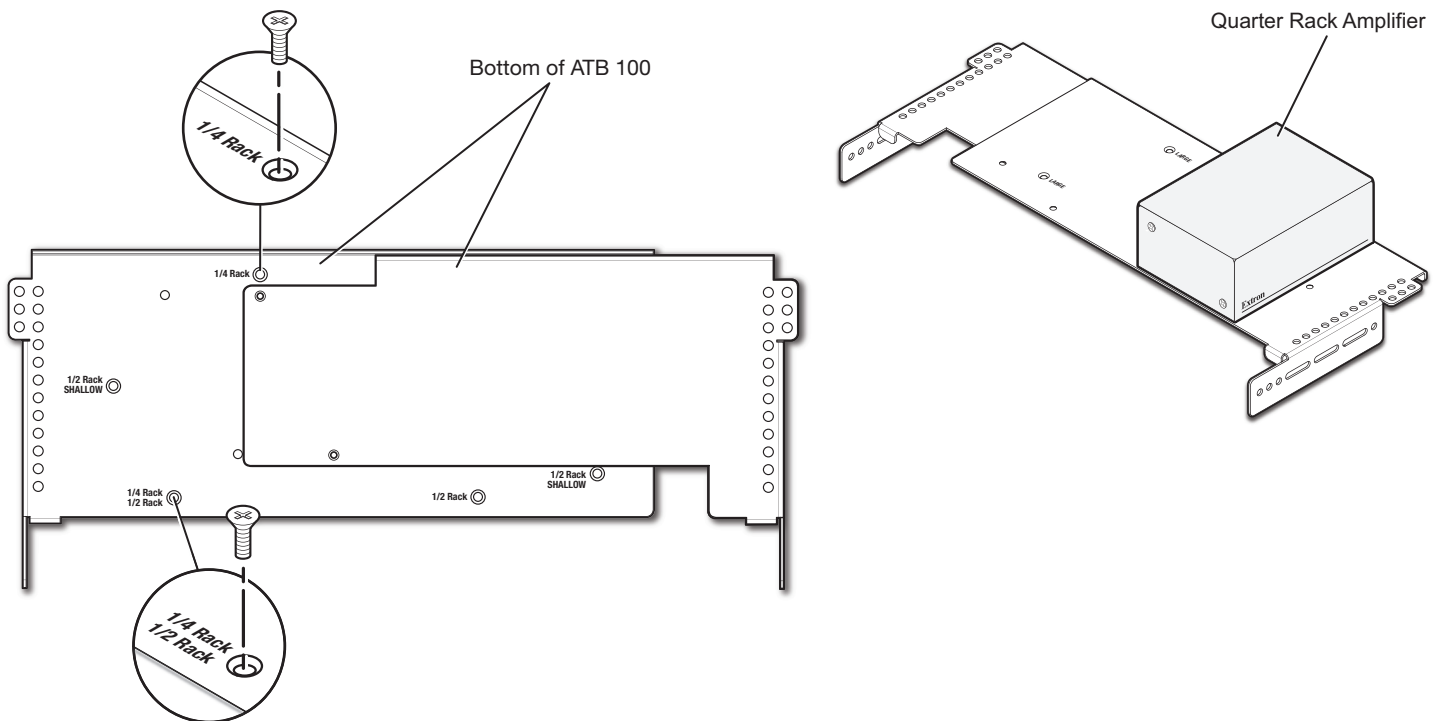


Figure 4. Attach the Brackets to the Quarter-rack Amplifier through the Holes Labeled 1/4 Rack

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- **Half-rack amplifier** — Mount the amplifier to the half-rack mounting flange using two of the supplied #4-40 x 3/16 inch screws, through the two holes in the bracket labeled 1/2 Rack or 1/2 Rack SHALLOW.

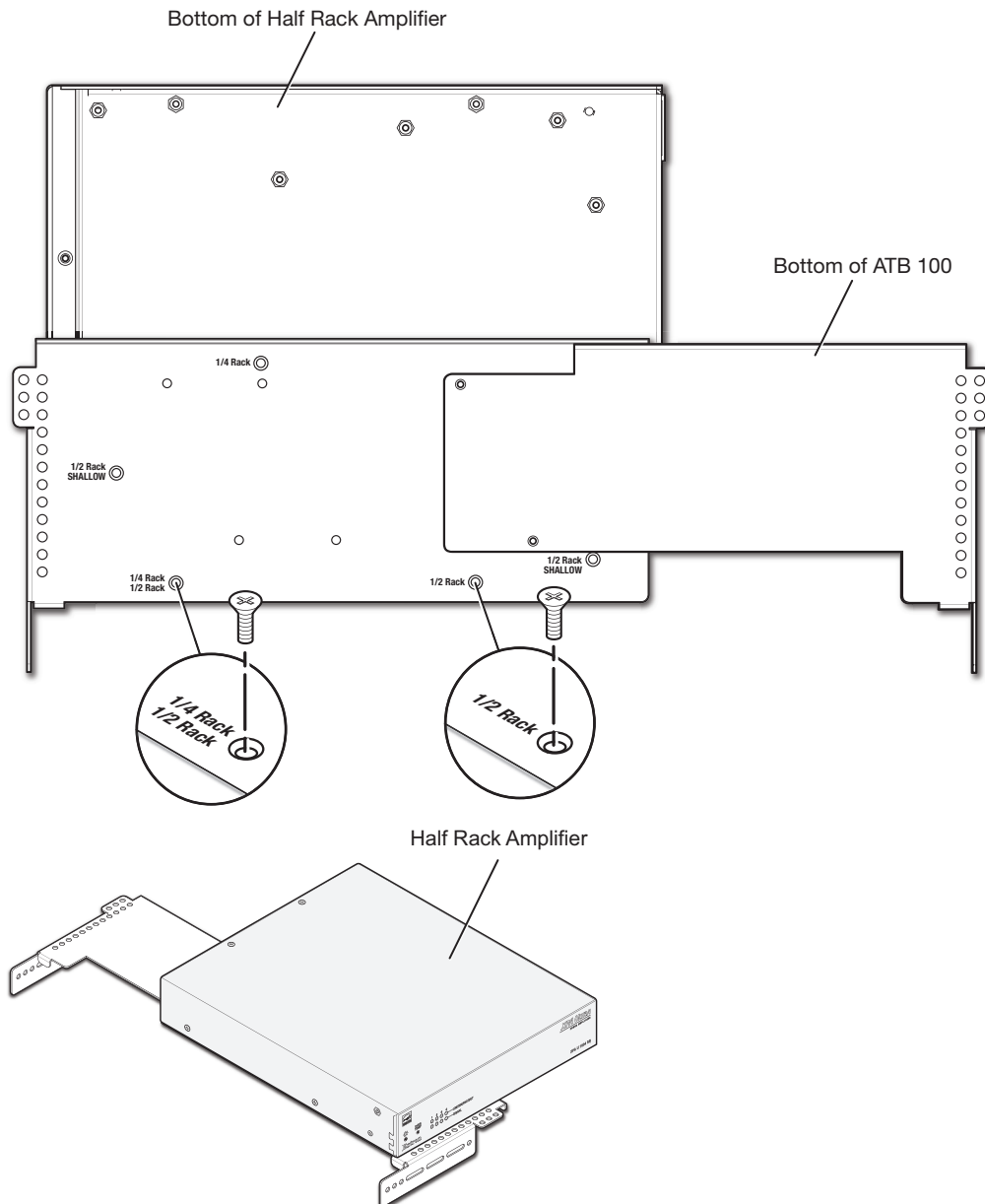


Figure 5. Attach the Brackets to the Half-rack Amplifier through the Holes Labeled 1/2 RACK

5. Pass the amplifier and bracket assemblage through the ceiling and secure the ATB 100 and amplifier to the speaker V-rails.

NOTE: For a large speaker installation, you may be able slide the bracket and amplifier through the speaker C-ring. For small speaker installations, it may be necessary to remove one or more ceiling tiles beside the speaker.

- Place the ATB 100 over the speaker V-rails so the folded tabs and rails of the ATB 100 are straddling the V-rail. Be sure the bracket and amplifier are as close to the speaker as possible without touching the speaker.

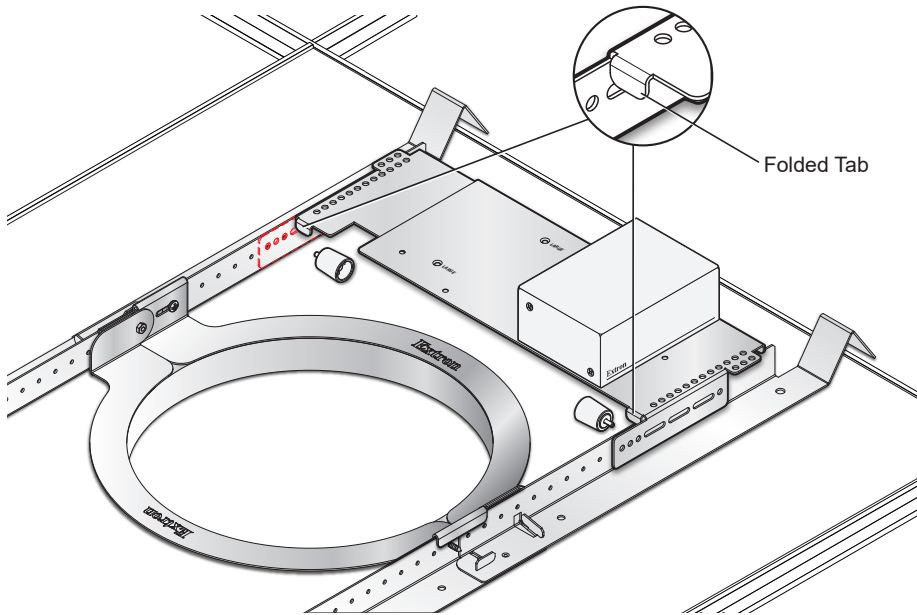


Figure 6. Folded Tabs on Quarter-rack Amplifier Installation

- Secure the ATB 100 to the V-rails with the provided magnetic pins (four pins are included in case the bracket needs stability). Make audio, control, and power connections. Certain install environments may require this step to be done before the product is attached to the ATB 100 (see [step 3](#) on page 3).

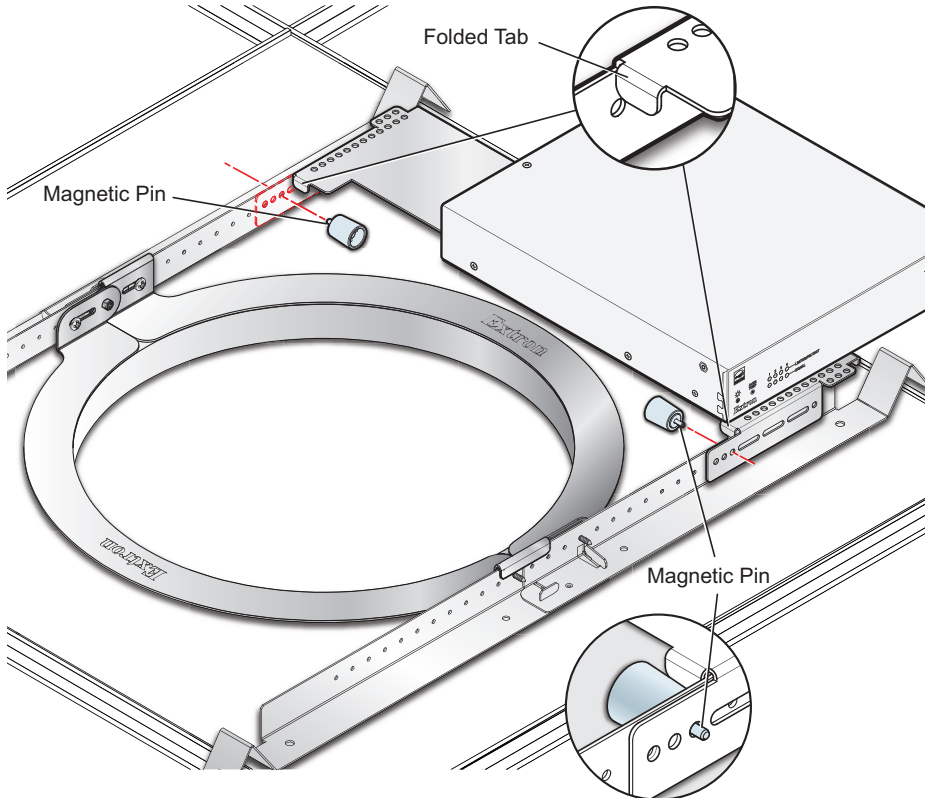


Figure 7. Secure the ATB 100 to the V-rails with Magnetic Pins

8. Attach the safety strap to the seismic attachment.

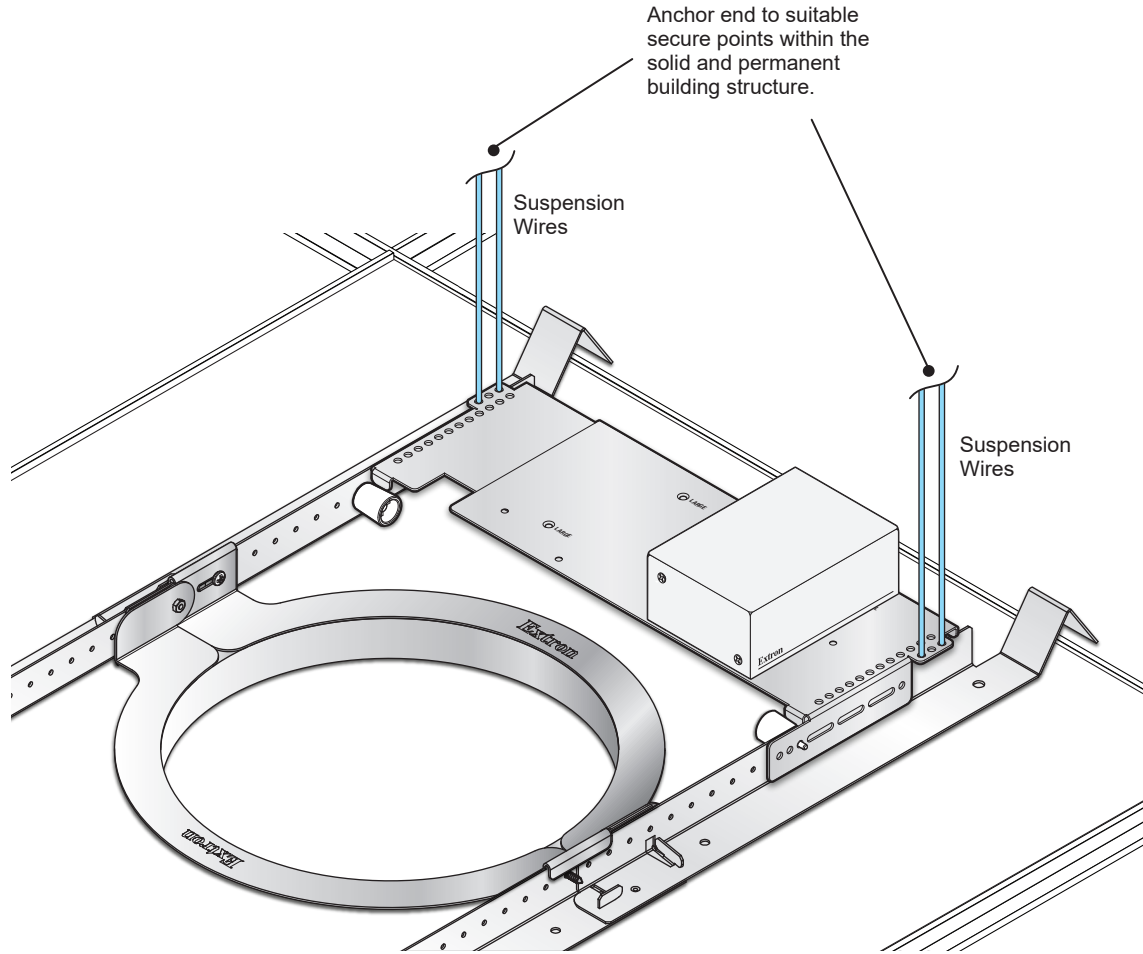


Figure 8. Attach Safety Straps

Cable management can also be secured to the seismic tabs.

For 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.