SAROS® IC6VLPT-W-T-EACH+ and SAROS® IC6ULPT-W-T-EACH+

Product Manual

Crestron Electronics, Inc.

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Regulatory Model: M202302001

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Contents

Overview 4
Products 4
SAROS IC6ULPT-W-T-EACH+ 5
SAROS IC6VLPT-W-T-EACH+ 6

Specifications 7
SAROS IC6ULPT-W-T Specifications 7
Product Specifications 7
Dimension Drawings 9
SAROS IC6VLPT-W-T Specifications 10
Product Specifications 10
Dimension Drawings 11

Installation 12
SAROS IC6ULPT-W-T-EACH+ Installation 12
In the Box 12
Prepare the Mounting Hole 13
Install the Speaker Cable 13
Install the Tile Bridge 13
Paint the Speaker Grille 14
Connect the Speaker Cable 15
Mount the Speaker 15
Set the Transformer Tap Selector 17
Attach the Speaker Grille 17
SAROS IC6VLPT-W-T-EACH+ Installation 19
In the Box 19
Prepare the Mounting Hole 19
Install the Speaker Cable 20
Install the Tile Bridge 20
Paint the Speaker Grille 21
Connect the Speaker Cable 22
Mount the Speaker 23
Set the Transformer Tap Selector 26
Attach the Speaker Grille 27

Resources 28
Crestron Support and Training 28
Product Certificates 28

Overview

The SAROS® IC6VLPT-W-T-EACH+ and SAROS® IC6ULPT-W-T-EACH+ are 2-way in-ceiling speakers with low profile enclosures that allow for installation in shallow ceiling spaces. Built-in multi-tap transformers in each model allow for use with 70V and 100V distributed speaker systems.

Saros® speakers by Crestron deliver professional grade performance and flexible installation in a range of popular sizes for demanding commercial applications. Solid construction, easy installation, and high-end components are hallmarks of the Saros speaker line. Ideal for use in background or foreground music, paging, and sound reinforcement systems, Saros speakers are engineered to achieve smooth, even coverage, high output, and clear, natural sound quality through the employment of horn-loaded titanium dome tweeters, high-efficiency damped cone woofers, ported enclosures, and precisely tuned crossovers.

Products

The following models are covered in this product manual:

- SAROS IC6ULPT-W-T-EACH+ on page 5
- SAROS IC6VLPT-W-T-EACH+ on page 6

SAROS IC6ULPT-W-T-EACH+

The SAROS IC6ULPT-W-T-EACH+ is designed for quick and easy installation and years of reliable performance. Its zero-bezel frameless grille achieves an unobtrusive and contemporary appearance well-suited for use in restaurants, retail spaces, houses of worship, universities, and office buildings. Installing the grille requires no hardware or tools, utilizing powerful magnets to hold it in place. A safety tether is included to prevent the grille from falling from the ceiling.

Mounting the speaker is facilitated using swiveling mounting dogs integrated into the enclosure. The mounting dogs can accommodate surfaces up to 1 in. (25 mm). A tile bridge is included to provide proper support when installed in a typical drop-tile ceiling. The tile bridge is adjustable to enable off-center speaker positioning, and can be folded to fit through the speaker cutout. A rigging point is also provided on the speaker enclosure for securing to the building structure using an optional safety tether kit (SPKA-ST-15, sold separately).

An integral metal back can is employed to meet the requirements of UL® 2043 for installation in a plenum space. A short length of two wire speaker cable extends from the back can of the speaker for a connection back to an amplifier using the included wire nuts. Setting the 70/100V transformer tap is performed via a screwdriver-adjustable control located on the front baffle, behind the grille.

SAROS® IC6VLPT-W-T-EACH+ and SAROS® IC6ULPT-W-T-EACH+ speaker grilles can be painted to blend with the ceiling surface.

SAROS IC6VLPT-W-T-EACH+

The SAROS IC6VLPT-W-T-EACH+ is designed for quick and easy installation and years of reliable performance. Its zero-bezel frameless grille achieves an unobtrusive and contemporary appearance well-suited for use in restaurants, retail spaces, houses of worship, universities, and office buildings. Installing the grille requires no hardware or tools, utilizing powerful magnets to hold it in place. A safety tether is included to prevent the grille from falling from the ceiling.

Mounting the speaker is facilitated using swiveling mounting dogs integrated into the enclosure. The mounting dogs can accommodate surfaces up to 2.4 in. (61 mm). A tile bridge is included to provide proper support when installed in a typical drop-tile ceiling. The tile bridge is adjustable to enable off-center speaker positioning, and can be folded to fit through the speaker cutout. A rigging point is also provided on the speaker enclosure for securing to the building structure using an optional safety tether kit (SPKA-ST-15, sold separately).

An integral metal back can is employed to meet the requirements of UL® 2043 for installation in a plenum space. The wiring connection is accessible behind a rear cover panel by removing a single screw. Setting the 70/100V transformer tap is performed via a screwdriver-adjustable control located on the front baffle, behind the grille.

SAROS® IC6VLPT-W-T-EACH+ and SAROS® IC6ULPT-W-T-EACH+ speaker grilles can be painted to blend with the ceiling surface.

Specifications

This section provides the following information:

- SAROS IC6ULPT-W-T Specifications
- SAROS IC6VLPT-W-T Specifications

SAROS IC6ULPT-W-T Specifications

Product specifications for the SAROS IC6ULPT-W-T.

Product Specifications

Features and Performance

Woofer	4 in. (102 mm) polypropylene with ring mode decoupled cloth surround and steel basket
Tweeter	0.98 in. (25 mm) titanium dome
Crossover Point	2.5 kHz
Impedance	8 Ω nominal with transformer set to **8 Ω**
Transformer Taps	3.75 W, 7.5 W, 15 W, 30 W at 70V; 7.5 W, 15 W, 30 W at 100V
Frequency Response	105 Hz-22 kHz +/-3 dB
Frequency Range	80 Hz-22 kHz -10 dB
Power Handling	35 W program (8 Ω)
Sensitivity	82 dB @ 1 W/1 m
Coverage	150° conical (speech); 140° conical (music)

Connections

Input	(1) gland nut with two (2) wire pig tails; Speaker input; (2) water tight wire nuts
Maximum Wire Size	12 AWG (3.31 mm^2)

Controls

Transformer Tap	(1) Recessed screwdriver-adjustable rotary switch on baffle; Used to select 70/100V tap or 8 Ω

Environmental

Temperature	-2° to 120° F (-19° to 49° C)
Humidity	5% to 95% RH (non-condensing)

Splash Resistance	IPX5 rated for water resistance

Construction

Enclosure	Zinc-plated steel, plenum-rated
Baffle	ABS UL 94V-0 plastic
Grille	Steel with white textured finish, paintable, magnetically-held zero bezel frameless design, safety tether included
Mounting	Flush ceiling mount using 4 integral 2-step swiveling dogs, 1 in. (25 mm) maximum surface thickness, 2.4 in. minimum mounting depth; 9.875 in. (250 mm) diameter recommended cutout, tile bridge included; (2) rigging points for safety tether (SPKA-ST-15 sold separately)

Dimensions

Diameter	10.63 in. (270 mm) not including mounting dogs
Depth	2.43 in. (62 mm)

Weight

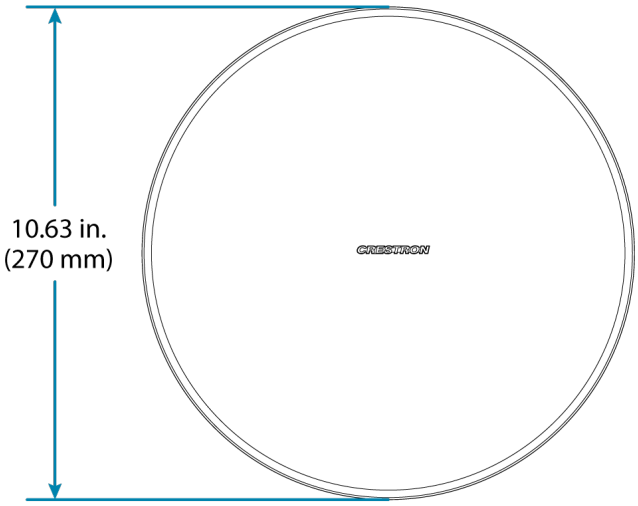
4.5 lb (2.04 kg)

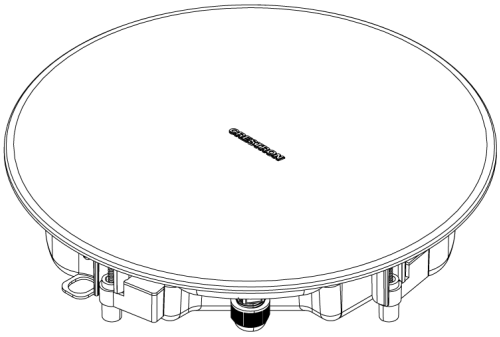
Compliance

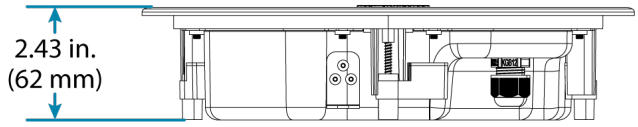
Regulatory Model: M202302001

To search for product certificates, refer to support.crestron.com/app/certificates.

Dimension Drawings







SAROS IC6VLPT-W-T Specifications

Product specifications for the SAROS IC6VLPT-W-T.

Product Specifications

Features and Performance

Woofer	6.5 in. (165 mm) polypropylene with ring mode decoupled cloth surround and steel basket
Tweeter	0.98 in. (25 mm) titanium dome, horn loaded
Crossover Point	2.5 kHz
Impedance	8 Ω nominal with transformer set to **8 Ω**
Transformer Taps	3.75 W, 7.5 W, 15 W, 30 W, 60 W at 70V; 7.5 W, 15 W, 30 W, 60 W at 100V
Frequency Response	65 Hz-22 kHz +/-3 dB
Frequency Range	55 Hz-22 kHz -10 dB
Power Handling	50 W program (8 Ω)
Sensitivity	88 dB @ 1 W/1 m
Coverage	85° conical (speech); 75° conical (music)

Connections

Input	(1) 4-pin 5 mm detachable terminal block with screw-down flanges; Speaker input with parallel pass through
Maximum Wire Size	12 AWG (3.31 mm^2)

Controls

Transformer Tap	(1) Recessed screwdriver-adjustable rotary switch on baffle; Used to select 70/100V tap or 8 Ω

Environmental

Temperature	-2° to 120° F (-19° to 49° C)
Humidity	5% to 95% RH (non-condensing)

Construction

Enclosure	Zinc-plated steel, plenum-rated, side-entry cable clamp
Baffle	ABS UL 94V-0 plastic
Grille	Steel with white textured finish, paintable, magnetically-held zero bezel frameless design, safety tether included

Mounting	Flush ceiling mount using 4 integral 2-step swiveling dogs, 2.4 in. (61 mm) maximum surface thickness, 4 in. minimum mounting depth; 9.875 in. (250 mm) diameter recommended cutout, tile bridge included; (2) rigging points for safety tether (SPKA-ST-15 sold separately)

Dimensions

Diameter	10.63 in. (270 mm) not including mounting dogs
Depth	4.05 in. (103 mm)

Weight

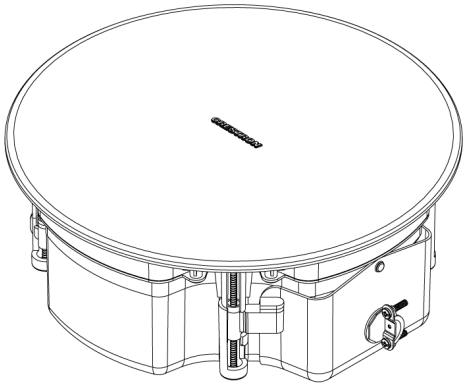
8.3 lb (3.76 kg)

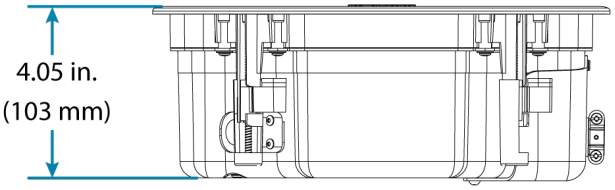
Compliance

Regulatory Model: M202302001

To search for product certificates, refer to support.crestron.com/app/certificates.

Dimension Drawings





Installation

Refer to the following sections for instructions on how to install the Saros in-ceiling low profile speakers.

- SAROS IC6ULPT-W-T-EACH+ Installation on page 12
- SAROS IC6VLPT-W-T-EACH+ Installation on page 19

SAROS IC6ULPT-W-T-EACH+ Installation

Refer to the following sections to install the SAROS IC6ULPT-W-T-EACH+.

In the Box

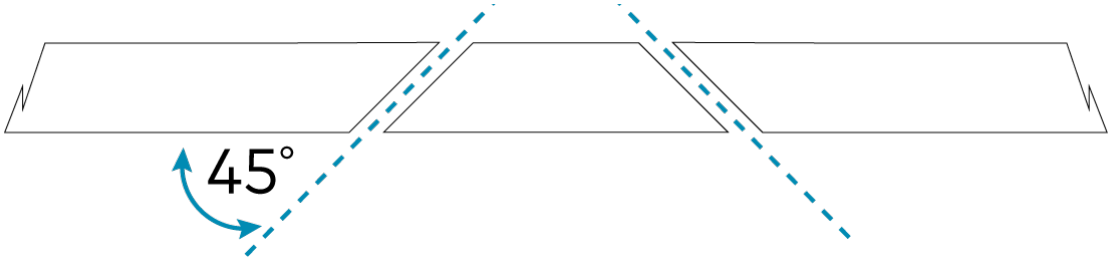
Qty.	Description
1	SAROS IC6ULPT-W-T-EACH+
	Additional Items
2	Wire Nut (2061488)
2	Tile Bridge Rail, ULP (2061677)
1	Accessory Bag (2062047)
1	Mesh Grille (2062050)
1	C-Ring (2062052)
1	Cutout Template (2062048)
1	Transformer Tap Cover (2062364)
2	Self Tapping Screw, 5 mm, Flathead (2062365)

Prepare the Mounting Hole

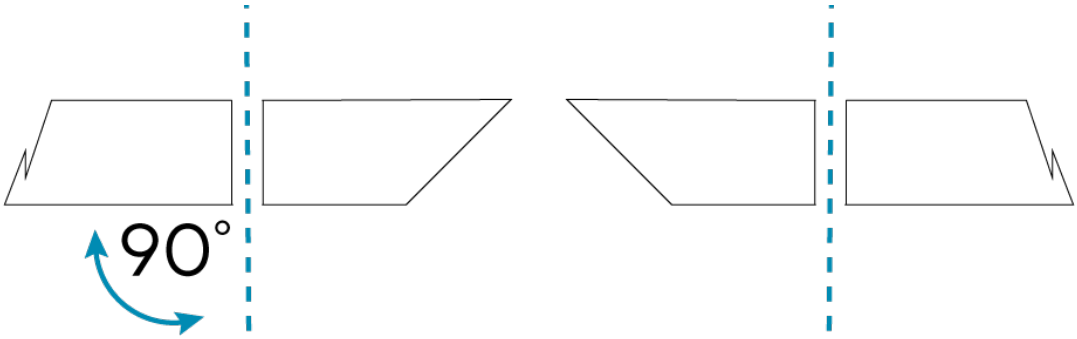
Before finalizing the speaker location, check to make sure there are no fixtures, pipes, air ducts, joists, or other possible obstructions. If applicable, use a good quality stud finder to locate joists. If there are no obstructions, use the supplied template to trace an outline of the mounting hole on the ceiling surface.

To identify obstructions:

1. For a drop ceiling, remove the ceiling tile where you intend to place the speaker and inspect the space above and around it. If there are no obstructions, use the supplied template to trace the outline of the mounting hole directly onto the removed tile.
2. For a finished drywall ceiling, use a drywall saw to cut a small hole at a 45° angle. An angled cut simplifies repair since the removed piece can be reinserted to help plug the hole.



Use a piece of stiff wire, bent into an L shape, with one end long enough to explore an area equal to the size of the speaker. Insert the wire into the hole, make sure it rotates freely in a complete circle and that there is sufficient depth. If there are no obstructions, use the supplied template to trace an outline of the mounting hole on the ceiling. Cut the final mounting hole at a 90° angle to the ceiling.

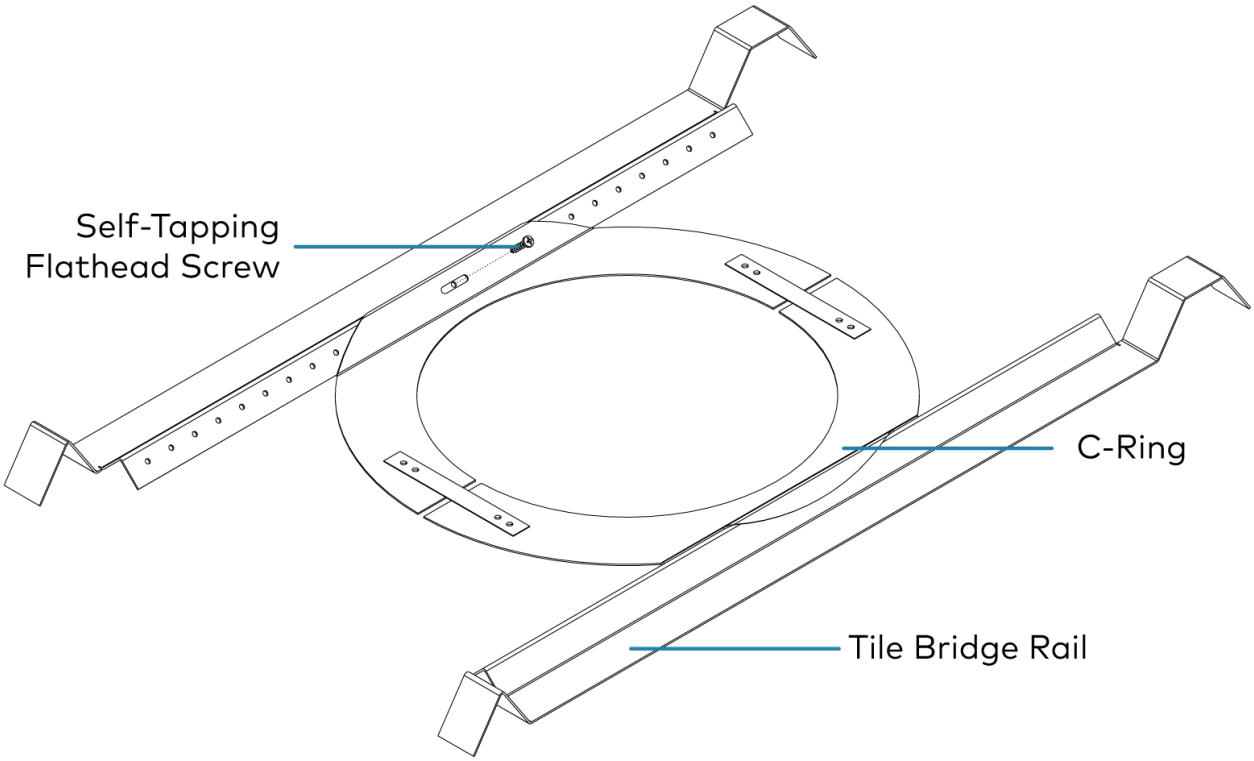


Install the Speaker Cable

Run the speaker cable (not included) from the audio source to the speaker location, observing all appropriate local codes. Strip the ends of the speaker cables approximately 1/8 in. to 3/16 in. (3 mm to 5 mm) and twist the strands.

Install the Tile Bridge

The included tile bridge components provide proper support when the speaker is installed in a drop tile ceiling. Refer to the illustration below.



To assemble and install the tile bridge:

1. Based on the location of the mounting hole determined in the Prepare the Mounting Hole steps, use the supplied self tapping screws to attach the support ring to the rails so that when installed, the ring is aligned with the mounting hole and the rails rest on the ceiling grid frame.
2. Adjust the support ring position on the rails as necessary to enable off-center speaker positioning.
3. The tile bridge assembly can be folded to fit through the speaker cutout in blind-mount situations.

Paint the Speaker Grille

The included speaker grille can be painted to meet the needs of an install, such as matching the color of the ceiling.

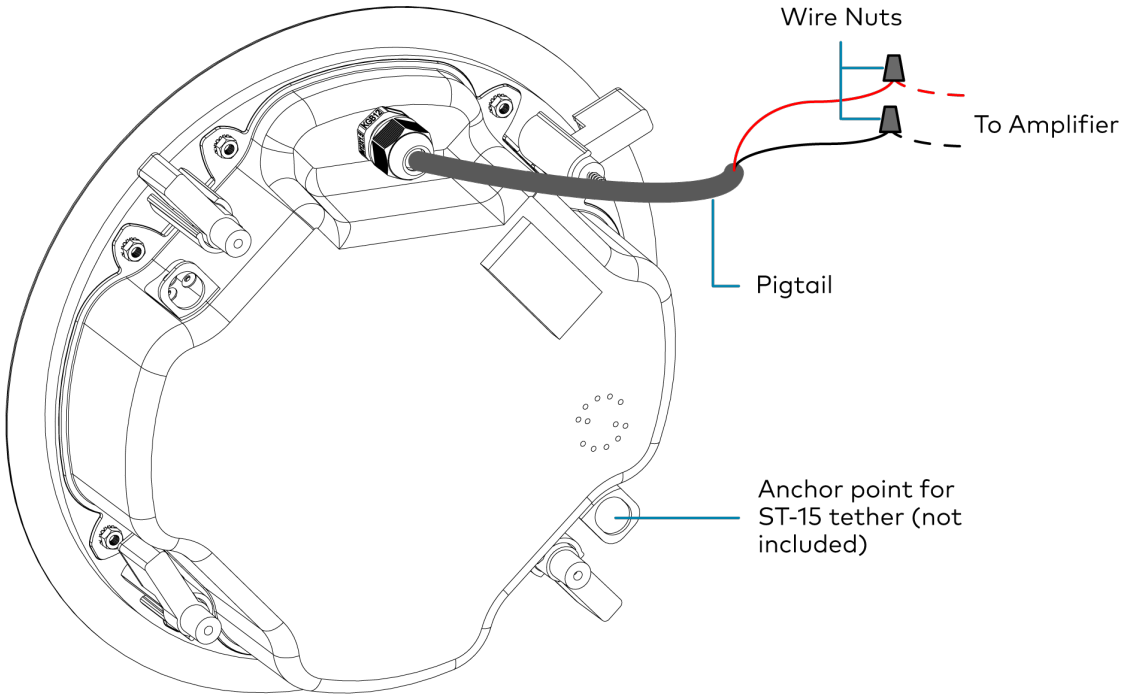
Follow these steps to paint the speaker grille:

1. Carefully remove the thin cloth on the inside of the grille and set it aside for later reattachment.
2. Lightly spray paint onto the front of the grille from a distance. Be careful not to plug any of the holes.
3. Once the paint is dry, reattach the cloth to the inside of the grille.

Connect the Speaker Cable

Connect the speaker cable to the input of the speaker before mounting it into the ceiling:

1. Strip approximately 1/8 in. to 3/16 in. (3 mm to 5 mm) of insulation from the ends of the leads of the included speaker cable pigtail, then twist the strands.
2. Twist the + pigtail lead (red) with the + lead of the installed speaker cable, then screw one of the included wire nuts onto the twisted leads to secure them together. Repeat this process with the - pigtail lead (black) and - lead of the installed speaker cable.

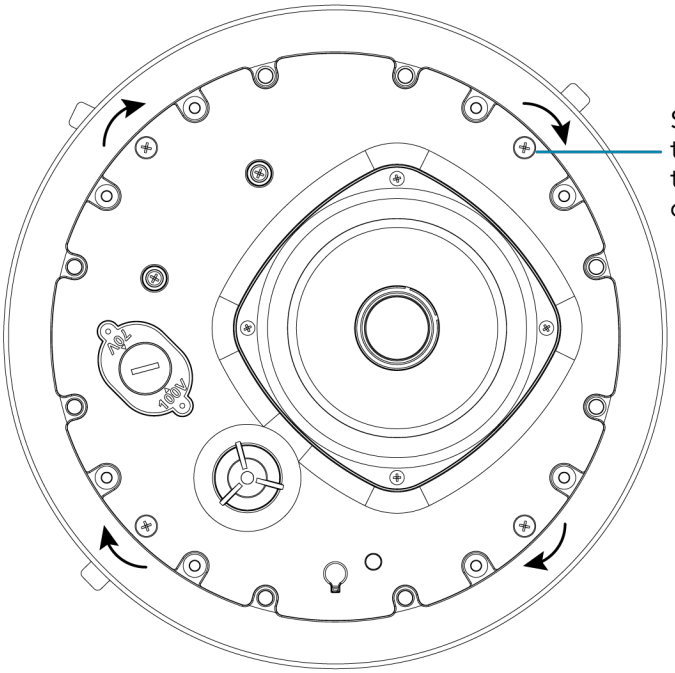


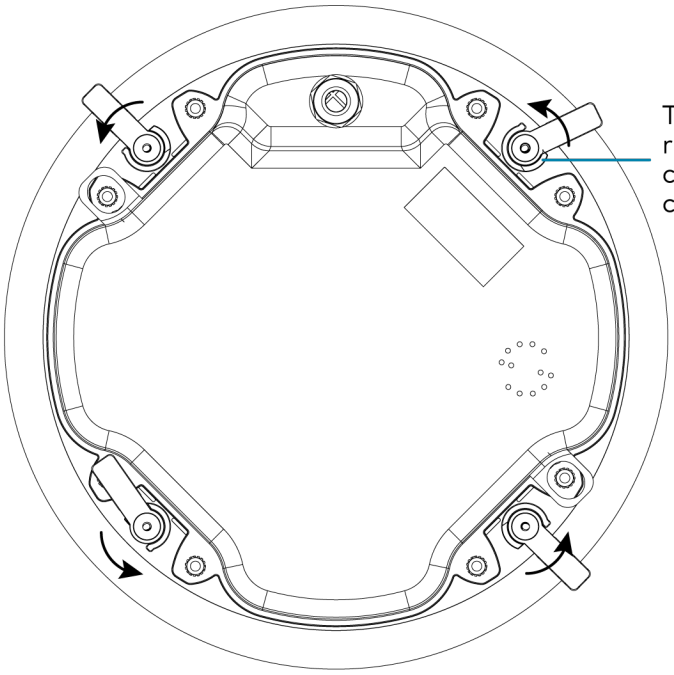
Mount the Speaker

Follow the steps below to mount the speaker into the ceiling:

1. If the install requires that the speaker be secured to building architecture, attach a SPKA-ST-15 safety tether (not included) to the speaker housing and an architectural anchor point.
2. Adjust the depth of the toggle clamps. The toggle clamps on the SAROS IC6ULPT-W-T-EACH+ can accommodate surface thicknesses up to 1 in. (25 mm).
3. With the toggle clamps turned fully inwards, push the speaker housing through the mounting hole.

4. Hold the speaker in place, and with a Philips head screwdriver, rotate each toggle clamp screw on the baffle side of the speaker clockwise to rotate the toggle clamps so they clamp onto the ceiling surface.





5. Tighten the toggle clamp screws until the speaker is secure. Do not overtighten the screws.

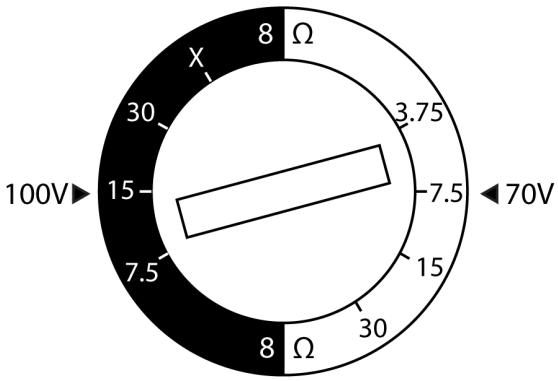
Set the Transformer Tap Selector

The speaker features a 70/100V transformer tap selector switch on the baffle side. The tap selector is used to either set the speaker for 8 Ω operation or select a power level for the speaker when adding it to a 70V or 100V distributed audio system.

To adjust the switch:

1. Use a flat blade screwdriver (not included) to adjust the tap selector switch to the desired setting.
    - To have the speaker bypass the transformer and operate as a low impedance 8 Ω load, set the switch to the 8 Ω position.
    - To engage the transformer in the signal path, set the switch to any of the other available positions. The white portion of the switch label corresponds to the available 70V power options, and the black portion of the label corresponds to the 100V power options. Whether the 70V or 100V power option of a given switch position is used depends on the audio source sent to the speaker via the speaker cable.

    > **CAUTION:** The tap selector switch has a position marked **X** for the 100V transformer options. To avoid product damage, do not use this position when the speaker is connected to a 100V amplifier. This position only exists as a placeholder to facilitate the final 30 W position on the 70V side of the selector.

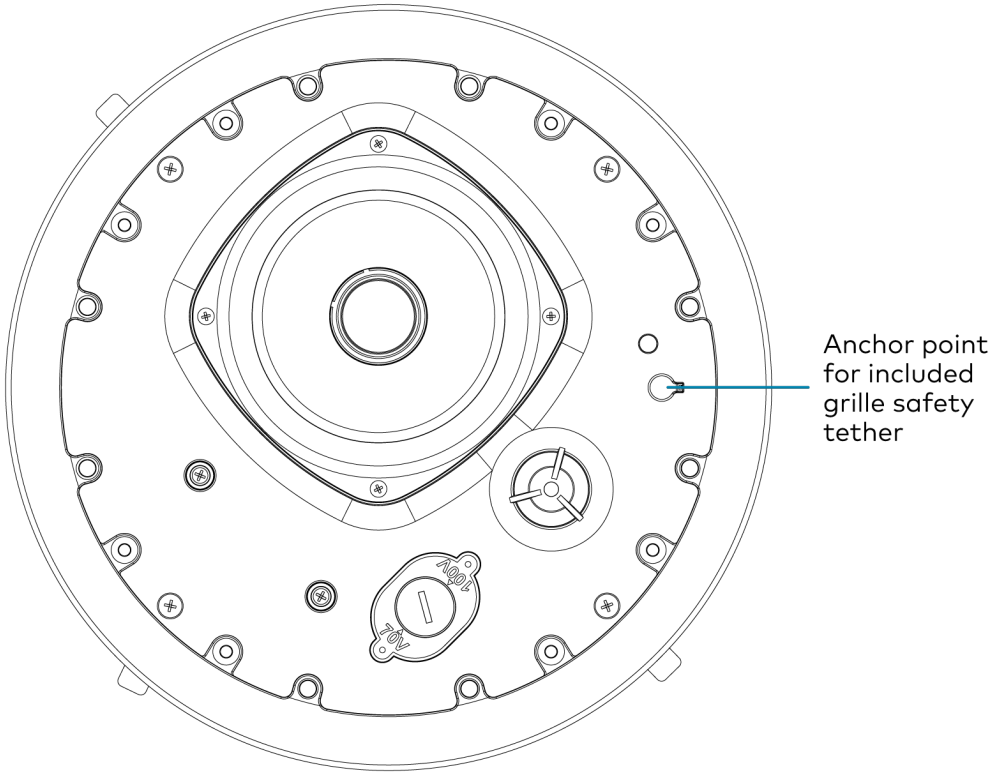


2. Secure the included cap in place covering the switch.

Attach the Speaker Grille

Attach the included grille to the speaker by placing it over the baffle. The magnets on the baffle will attract the grille and hold it in place. For an even more secure hold, before placing the grille

over the baffle, thread the included safety tether through one of the holes in the grille along the edge and press the tether into the safety tether anchor point on the baffle of the speaker.



SAROS IC6VLPT-W-T-EACH+ Installation

Refer to the following sections to install the SAROS IC6VLPT-W-T-EACH+.

In the Box

Qty.	Description
1	SAROS IC6ULPT-W-T-EACH+
	Additional Items
2	Tile Bridge Rail, VLP (2061676)
1	Accessory Bag (2062047)
1	Mesh Grille (2062049)
1	C-Ring (2062051)
1	Cutout Template (2062048)
1	Transformer Tap Cover (2062361)
2	Ring Pad
2	Self Tapping Screw, 5 mm, Flathead (2062363)

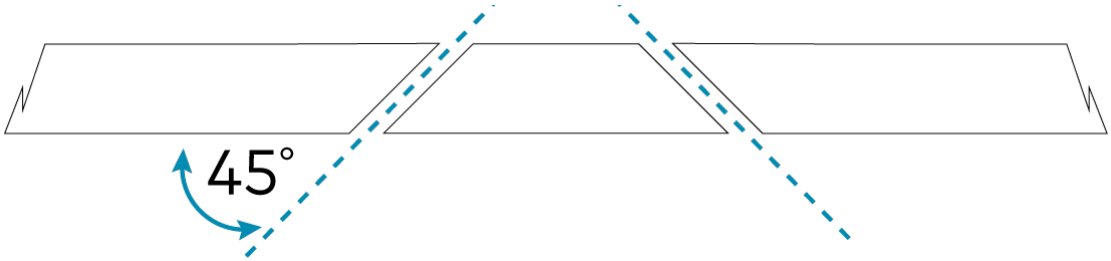
Prepare the Mounting Hole

Before finalizing the speaker location, check to make sure there are no fixtures, pipes, air ducts, joists, or other possible obstructions. If applicable, use a good quality stud finder to locate joists. If there are no obstructions, use the supplied template to trace an outline of the mounting hole on the ceiling surface.

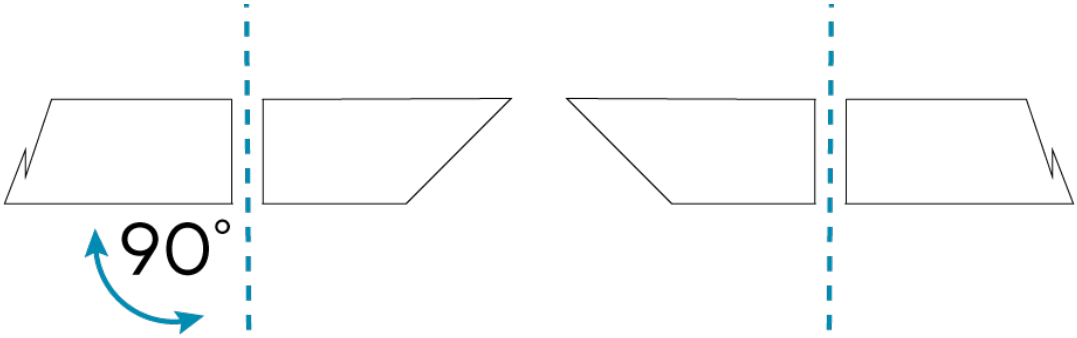
To identify obstructions:

1. For a drop ceiling, remove the ceiling tile where you intend to place the speaker and inspect the space above and around it. If there are no obstructions, use the supplied template to trace the outline of the mounting hole directly onto the removed tile.

2. For a finished drywall ceiling, use a drywall saw to cut a small hole at a 45° angle. An angled cut simplifies repair since the removed piece can be reinserted to help plug the hole.



Use a piece of stiff wire, bent into an L shape, with one end long enough to explore an area equal to the size of the speaker. Insert the wire into the hole, make sure it rotates freely in a complete circle and that there is sufficient depth. If there are no obstructions, use the supplied template to trace an outline of the mounting hole on the ceiling. Cut the final mounting hole at a 90° angle to the ceiling.

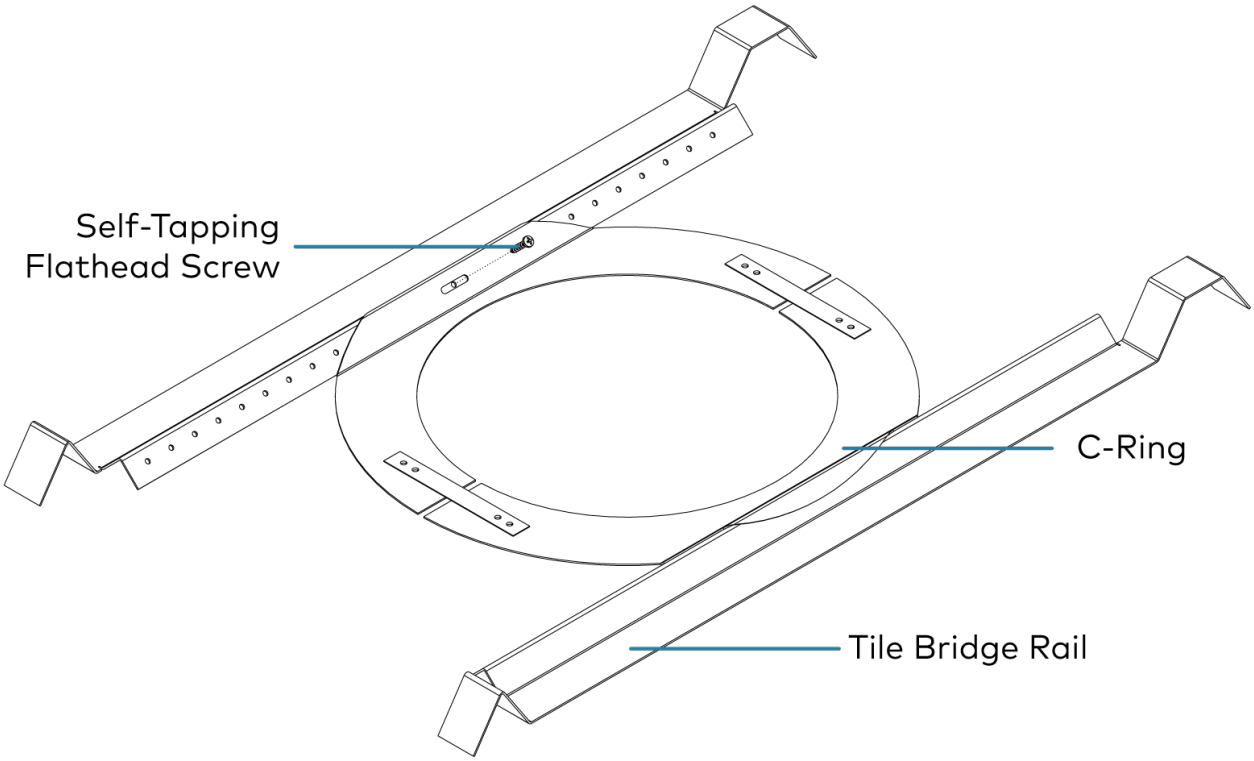


Install the Speaker Cable

Run the speaker cable (not included) from the audio source to the speaker location, observing all appropriate local codes. Strip the ends of the speaker cables approximately 1/8 in. to 3/16 in. (3 mm to 5 mm) and twist the strands.

Install the Tile Bridge

The included tile bridge components provide proper support when the speaker is installed in a drop tile ceiling. Refer to the illustration below.



To assemble and install the tile bridge:

1. Based on the location of the mounting hole determined in the Prepare the Mounting Hole steps, use the supplied self tapping screws to attach the support ring to the rails so that when installed, the ring is aligned with the mounting hole and the rails rest on the ceiling grid frame.
2. Adjust the support ring position on the rails as necessary to enable off-center speaker positioning.
3. The tile bridge assembly can be folded to fit through the speaker cutout in blind-mount situations.

Paint the Speaker Grille

The included speaker grille can be painted to meet the needs of an install, such as matching the color of the ceiling.

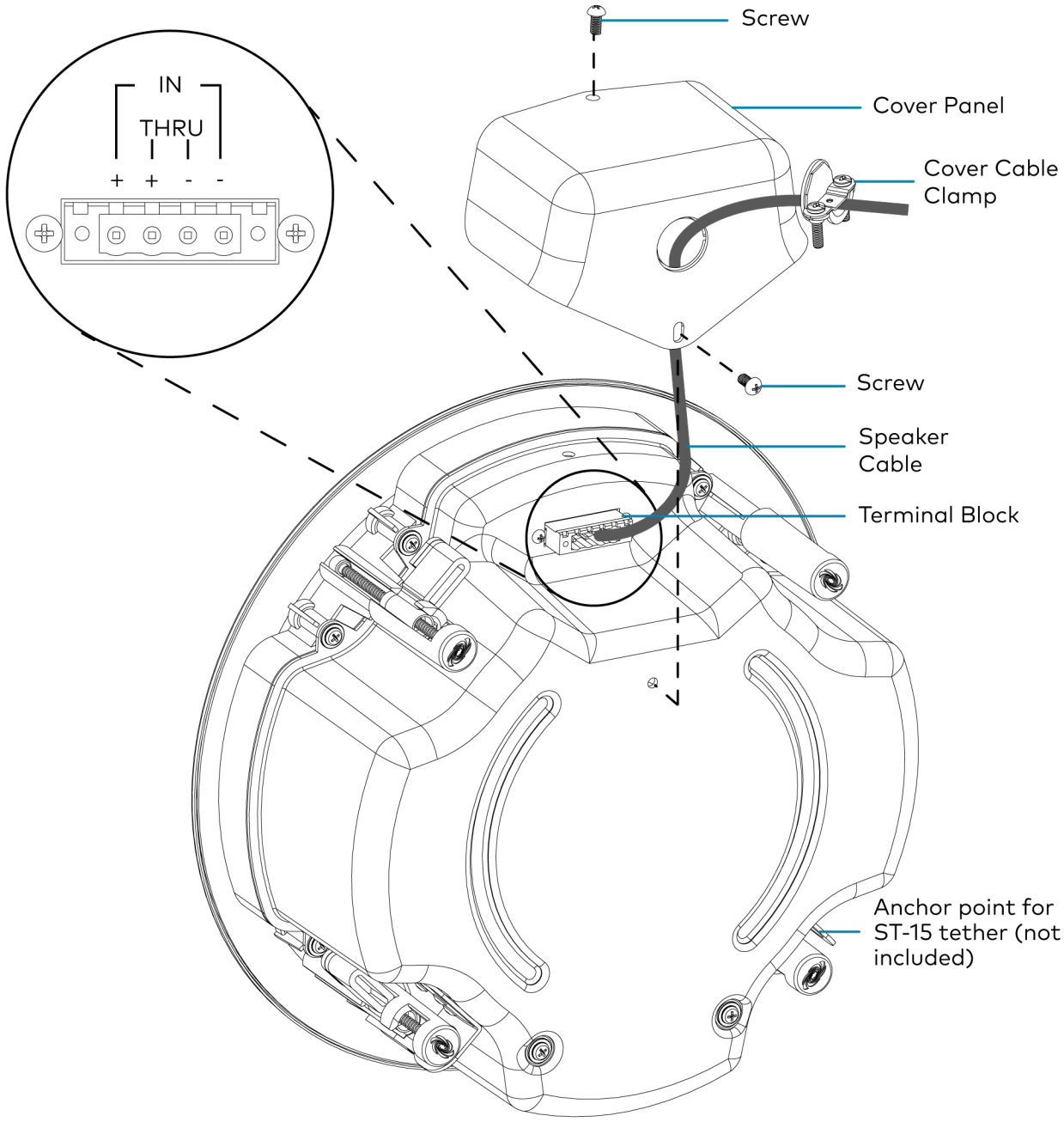
Follow these steps to paint the speaker grille:

1. Carefully remove the thin cloth on the inside of the grille and set it aside for later reattachment.
2. Lightly spray paint onto the front of the grille from a distance. Be careful not to plug any of the holes.
3. Once the paint is dry, reattach the cloth to the inside of the grille.

Connect the Speaker Cable

Connect the speaker cable to the input of the speaker before mounting it into the ceiling:

1. Remove the screws securing the rear cover panel, and remove the cover panel to expose the terminal block.
2. Route the speaker cable through the cover cable clamp, then tighten the cable cover clamp.
3. Connect the wires to the terminal block, using the outer **IN** terminals. Be sure to check the connections at the amplifier and ensure that the + and - terminals of the amp are wired to the + and - **IN** terminals of the terminal block, respectively. Use the inner + and – **THRU** terminals to pass the audio signal through to another speaker in parallel in 70/100V distributed audio systems.

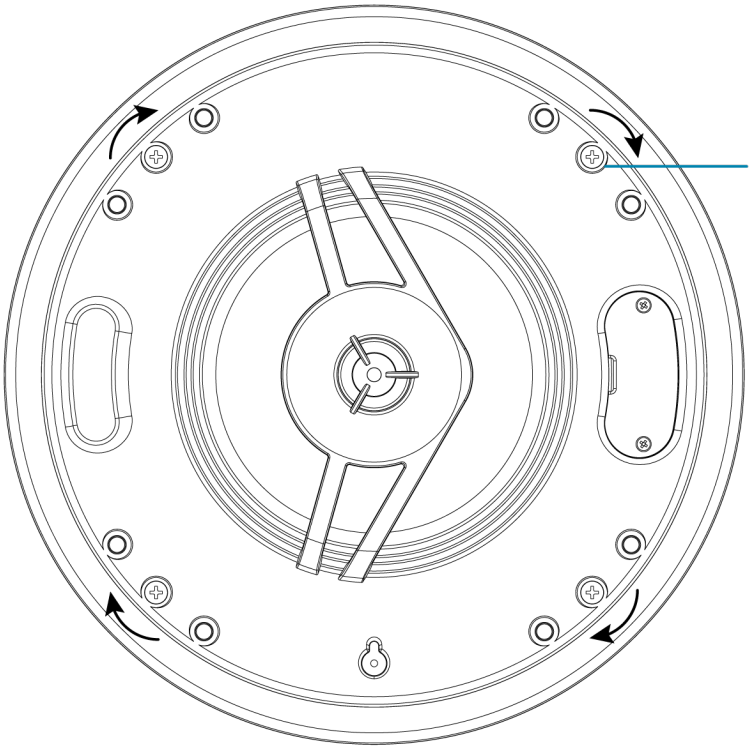


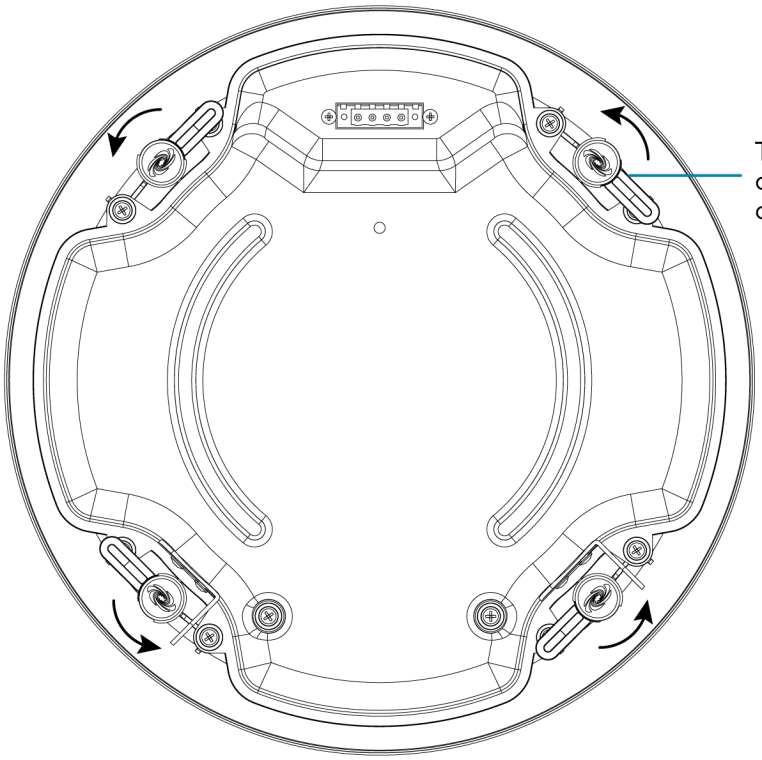
Mount the Speaker

Follow the steps below to mount the speaker into the ceiling:

1. If the install requires that the speaker be secured to building architecture, attach a SPKA-ST-15 safety tether (not included) to the speaker housing and an architectural anchor point.

2. Adjust the depth of the toggle clamps. The toggle clamps on the SAROS IC6VLPT-W-T-EACH+ can accommodate surface thicknesses up to 2.4 in. (64 mm).
3. With the toggle clamps turned fully inwards, push the speaker housing through the mounting hole.
4. Hold the speaker in place, and with a Philips head screwdriver, rotate each toggle clamp screw on the baffle side of the speaker clockwise to rotate the toggle clamps so they clamp onto the ceiling surface.


Screw clockwise
to rotate and tighten
toggle clamps


Toggle clamps rotate
out and clamp onto
ceiling surface

5. Tighten the toggle clamp screws until the speaker is secure. Do not overtighten the screws.

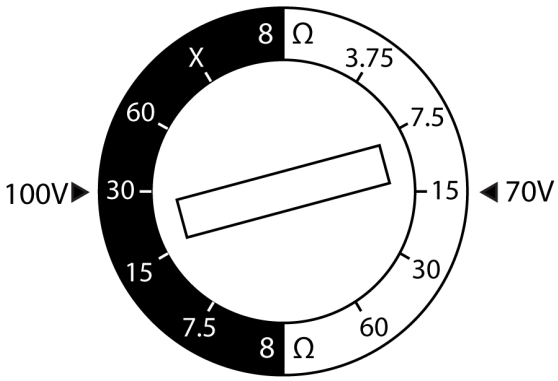
Set the Transformer Tap Selector

The speaker features a 70/100V transformer tap selector switch on the baffle side under a cap. The tap selector is used to either set the speaker for 8 Ω operation or select a power level for the speaker when adding it to a 70V or 100V distributed audio system.

To adjust the switch:

1. Remove the cap covering the switch.
2. Use a flat blade screwdriver (not included) to adjust the tap selector switch to the desired setting.
    - To have the speaker bypass the transformer and operate as a low impedance 8 Ω load, set the switch to the 8 Ω position.
    - To engage the transformer in the signal path, set the switch to any of the other available positions. The white portion of the switch label corresponds to the available 70V power options, and the black portion of the label corresponds to the 100V power options. Whether the 70V or 100V power option of a given switch position is used depends on the audio source sent to the speaker via the speaker cable.

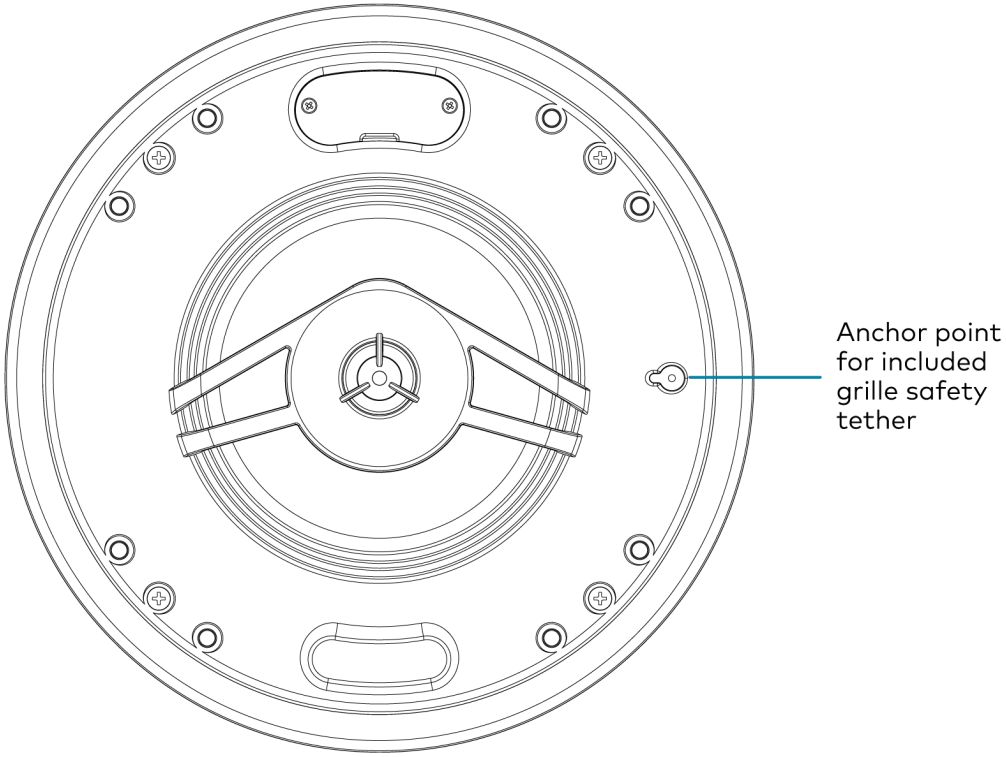
      CAUTION: The tap selector switch has a position marked **X** for the 100V transformer options. To avoid product damage, do not use this position when the speaker is connected to a 100V amplifier. This position only exists as a placeholder to facilitate the final 60 W position on the 70V side of the selector.



3. Reattach the cap in place covering the switch.

Attach the Speaker Grille

Attach the included grille to the speaker by placing it over the baffle. The magnets on the baffle will attract the grille and hold it in place. For an even more secure hold, before placing the grille over the baffle, thread the included safety tether through one of the holes in the grille along the edge and press the tether into the safety tether anchor point on the baffle of the speaker.



Resources

The following resources are provided for the SAROS® IC6VLPT-W-T-EACH+ and SAROS® IC6ULPT-W-T-EACH+.

> **NOTE:** You may need to provide your Crestron.com web account credentials when prompted to access some of the following resources.

Crestron Support and Training

- Crestron True Blue Support
- Crestron Resource Library
- Crestron Online Help (OLH)

Product Certificates

To search for product certificates, refer to support.crestron.com/app/certificates.

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Product Manual — Doc. 9398B
03/21/24
Specifications subject to
change without notice.