AMP-150-70/AMP-150-100/AMP-225/AMP-1200-70/AMP-1200-100/ AMP-2100/AMP-2100-70/AMP-2100-100
Modular Amplifiers

The Crestron® Modular Amplifier Series can be configured for individual module use on a flat surface or ganged together (one or more modules) with the "slide-lock" system for installation in a 1U rack space. The amplifiers are functionally similar to each other with varying capabilities. For simplicity within this guide, the term "amplifier" is used except where noted.
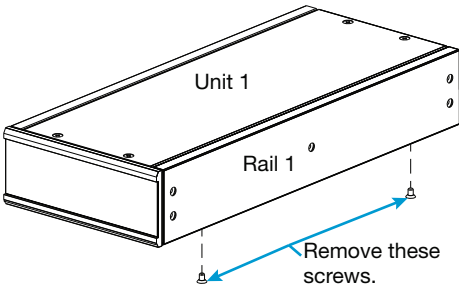
DO Assemble the Device

If a single amplifier is to be used on a flat surface, refer to "Placing onto a Flat Surface." Otherwise, continue below for instructions on creating an amplifier assembly that can be placed in a standard equipment rack. The only tools needed are a #1 or # 2 Phillips screwdriver, and a 1/4" nut driver.
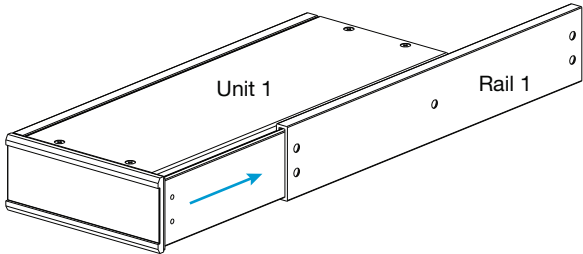
Gang Amplifiers Together

Perform the following procedure to gang amplifiers together. Refer to the diagrams.
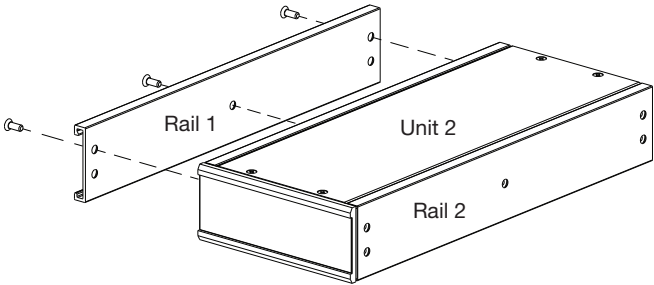
1. Remove the two screws securing rail 1 to the amplifier (unit 1).

2. Remove rail 1 from unit 1 by sliding it off the side of the amplifier.
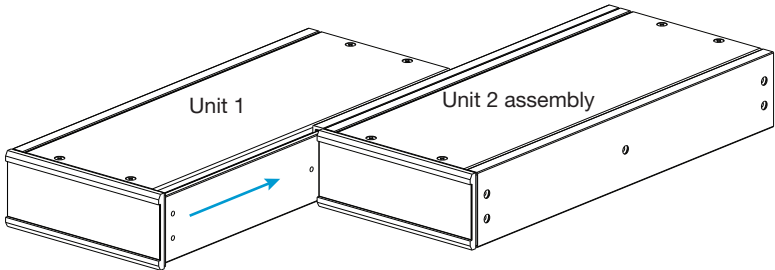

3. Attach rail 1 to unit 2 using the three included Phillips-head screws. Make sure that the screw holes on the underside of rail 1 are on the bottom.
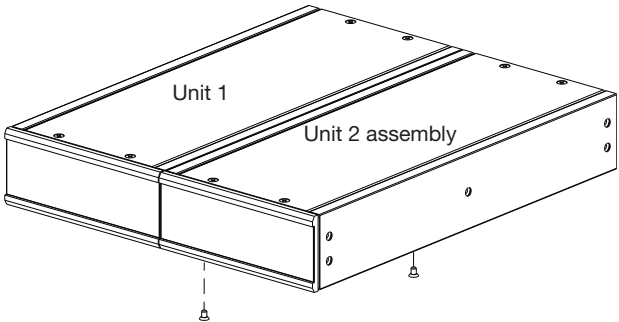

NOTE: Do not remove rail 2.

4. Slide unit 1 into unit 2 assembly.

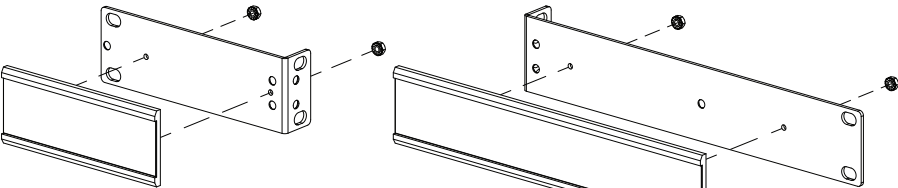5. Secure unit 1 to unit 2 assembly with the two screws removed in step 1.

6. Repeat steps 1 through 5 for additional amplifiers.

Configure for Rack Installation

Before an amplifier can be installed in a rack, additional hardware must be installed.

Faceplates

If an amplifier or group of amplifiers is not wide enough to mount in a rack, faceplates can be assembled to "widen" the amplifier to fit. Create a faceplate by attaching an extrusion plate to a quarter-width or half-width rack ear, as shown in the following diagrams. Secure the extrusion plate to the rack ear using a 1/4" nut driver and the included nuts.

Quarter-size faceplate bracket   Half-size faceplate bracket

DO Check the Box

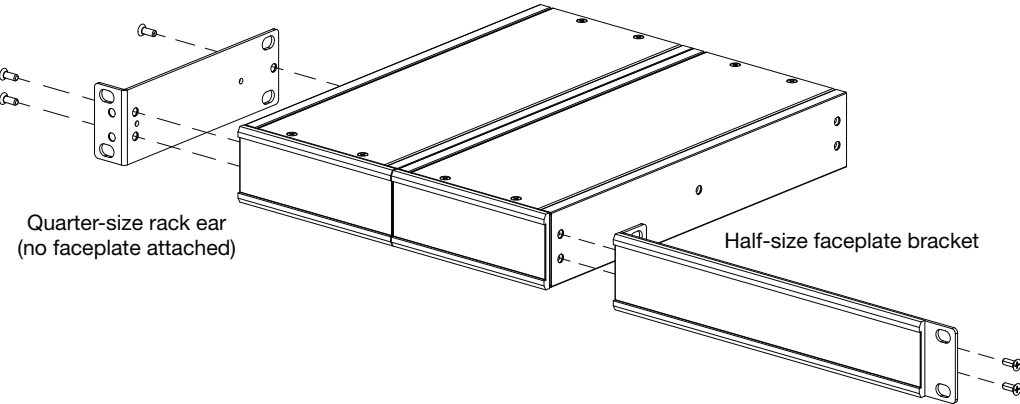| QUANTITY	PRODUCT	COLOR	PART NUMBER
1	Attenuator Cover, Magnetic, Security		4525789
2	Bracket, Wall Mount		2046992
1	Connector, 5-Pin		2003577
1	Extrusion Plate, Half-Width		4525245
1	Extrusion Plate, Quarter-Width		4525244
4	Foot, 0.5" x 0.5" x 0.23", Adhesive	Black	2002389
4	Nut, 04-40, Keps		2004878
1	Power Cord, 6' 7" (2 m)		2001134
1	Rack Ear, 1U, Half-Width		2046652
1	Rack Ear, 1U, Quarter-Width		2046651
6	Screw, 6-32 x 3/8", Undercut Head, Phillips	Black	2007235
	AMP-150-70, AMP-150-100, AMP-1200-70, AMP-1200-100 Only		
1	Connector, 2-Pin		2044402
	AMP-225, AMP-2100, AMP-2100-70, AMP-2100-100 Only		
2	Connector, 2-Pin		2044402

Attach Rack Ears to Amplifiers

Attach the faceplate bracket(s) or rack ears, as required, to the amplifier(s). Refer to the following diagram for details.

Quarter-size rack ear (no faceplate attached)   Half-size faceplate bracket

NOTE: Faceplates should not be attached to rack ears that are attached to the length of the amplifier.
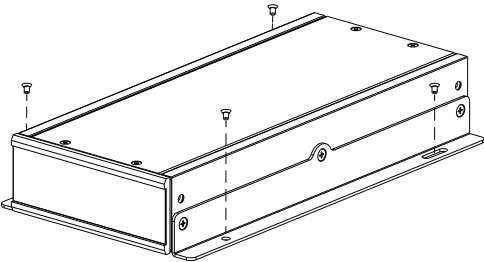
DO Install the Device

Once assembled, the amplifier can be mounted into a rack, mounted onto a flat surface, or placed onto a flat surface.

Mounting into a Rack

Each amplifier occupies 1U of rack space. Using a #1 or #2 Phillips screwdriver, mount the device into the rack using four mounting screws (not included).

Mounting onto a Flat Surface

1. Install the wall mount brackets with three Phillips-head screws (included) per side.

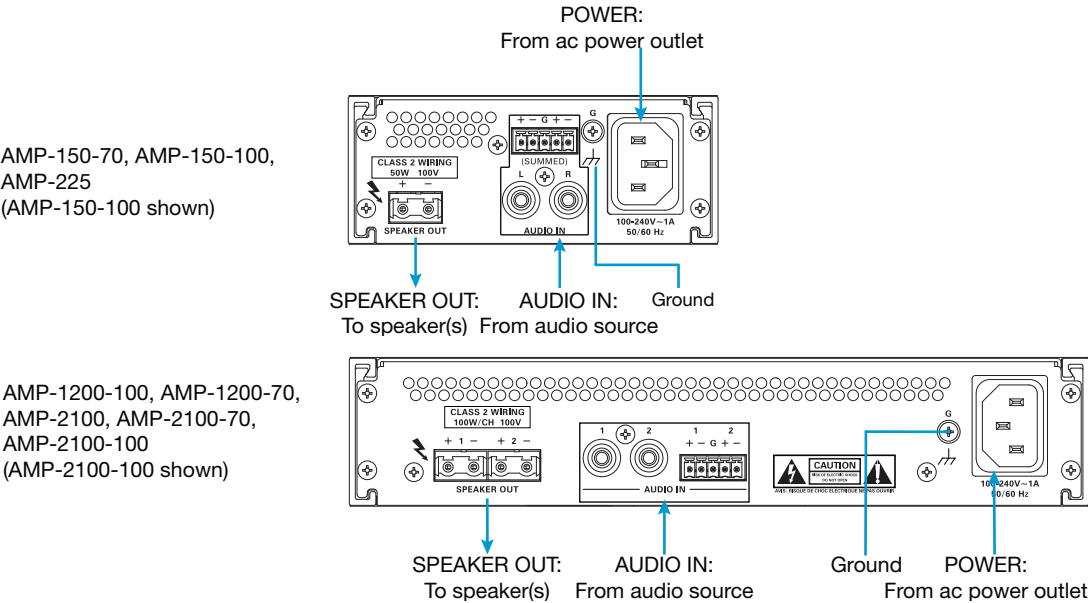2. Secure the amplifier to a flat surface using four mounting screws (not included).

Placing onto a Flat Surface

Attach the included feet to place the amplifier(s) on a flat surface.

DO Connect the Device

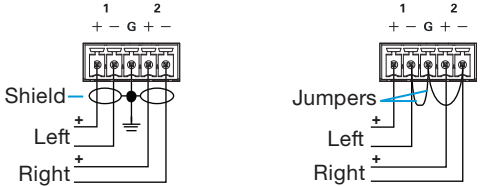Make the necessary connections as called out in the following diagrams. Connect power last.

AMP-150-70, AMP-150-100,
AMP-225
(AMP-150-100 shown)

POWER:
From ac power outlet

SPEAKER OUT: AUDIO IN: Ground
To speaker(s)   From audio source

AMP-1200-100, AMP-1200-70,
AMP-2100, AMP-2100-70,
AMP-2100-100
(AMP-2100-100 shown)

SPEAKER OUT: AUDIO IN: Ground   POWER:
To speaker(s)   From audio source   From ac power outlet

CAUTION: Keep the device unplugged until all of the input and speaker wiring is complete.

CAUTION: Check the speaker wires for shorts and frayed wiring around the SPEAKER OUT connectors.

NOTE: On the AMP-150 and AMP-1200, the left and right inputs are summed to the amplifier's output.

NOTE: Ensure the unit is properly grounded by connecting the chassis ground lug to an earth ground (building steel).

NOTE: To prevent overheating, do not operate this product in an area that exceeds the environmental temperature range listed in the product's table of specifications on the Crestron website (www.crestron.com/Products/audio/amplifiers/audio-amplifiers-modular-amplifiers).

When connecting an input signal, use either the RCA connection or the 5-pin terminal block connector. The 5-pin terminal block connector can be connected to balanced and unbalanced sources. Refer to the following diagrams for connecting a source.

Wiring for Balanced Input   Wiring for Unbalanced Input

DO Operate the Device

Apply Power

To turn the amplifier and audio outputs on, connect the included power cord to the power connector on the rear of the amplifier.

LED Operation

When power is applied to the device, the **PWR** LED on the front panel operates with the following behavior:

- Green - Normal operation
- Amber - Sleep operation

The **SIGNAL** LED provides the following information about the audio signal:

- Green - An audio signal is present.
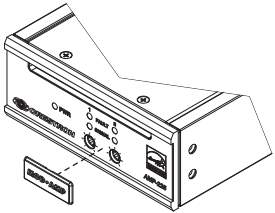- Red - The audio signal is clipped.

The **FAULT** LED indicates a fault on the indicated channel.

Adjust the Signal Levels

WARNING: This amplifier is capable of delivering high power to the loudspeakers. Please use caution and adequate ear protection if listening to content at high volume levels, as continued exposure to high sound pressure levels can cause permanent hearing impairment or loss.

Each input has its own signal level control that can be adjusted as necessary to balance the sound between inputs or to accommodate different audio sources. To adjust an input's level, follow this procedure:

1. If the magnetic attenuator cover is installed, remove it from the front of the amplifier.

2. Use a Phillips screwdriver to turn the knob clockwise to increase the signal level or counterclockwise to reduce the signal level.

3. Attach the magnetic attenuator cover.

DO Learn More

Visit the website for additional information and the latest firmware update. To learn more about this product, use a QR reader application on your mobile device to scan the QR images.

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Specifications subject to change without notice.