AudioSource®

AS6s
6.5" 2-Way In-Wall Speakers

Congratulations on your purchase of the AudioSource AS6s In-Wall Speaker System. This product is designed to reproduce the audio portion of your home entertainment environment with accuracy and detail that will satisfy the most discriminating listener.

Please read this Installation Manual to ensure the proper installation and performance of your AS6s speakers.

Preparing for your Installation

Gather the necessary tools for you installation.
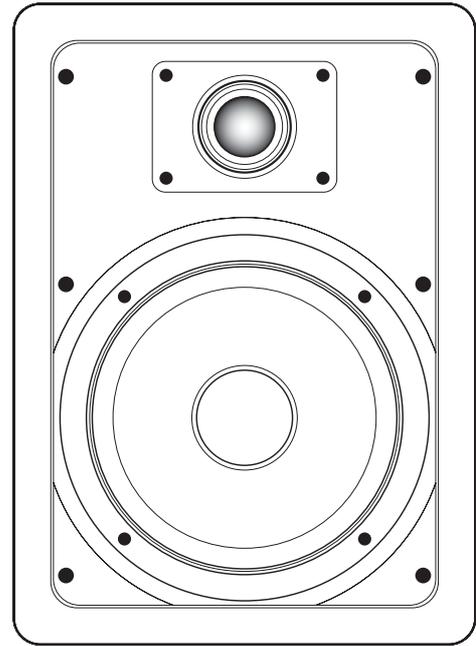
You will need the following tools:
1) A Keyhole or Drywall Saw
2) A Phillips Screwdriver
3) Masking Tape
4) A Pencil
5) A Bubble or Laser Level
6) A Tape Measure
7) A Stud Finder (recommended)
8) Your AS6s speakers

Placement

Plan your speaker placement carefully. Make certain that electrical, plumbing and any other services will not interfere within the walls where you plan to place your speakers. The AS6s speakers can be mounted in the walls or in the ceiling, but are typically used in walls. The speakers should be located so that they provide even coverage at you listening position. The distance between the speakers should not be greater than the distance from the speakers to the listening position. (see fig. 1) If the room's dimensions or furniture placement prevent adhering to this requirement, the tweeters in the AS6s speakers can be swiveled to aim them at the desired listening position. Speaker height should be maintained at ear level or just above. Again, the tweeters may be aimed into the listening area.

New Construction

If you are installing your speakers in new construction before the finished walls go up, AudioSource offers a New Construction Bracket, part NCBI6 that provides a stable frame that can be fastened to the wall studs on 16" or 24" centers. This allows the sheetrock or other wall covering to be installed and cleanly leave the opening for the AS6s speakers.

AS6s

Existing Construction

In most modern buildings the wall studs are positioned on 16" centers, providing a space between the studs of approximately 14 3/8". The AS6s requires a mounting hole 7 5/16" wide and 10 11/16" high. Additionally, you should allow an extra 3/4" in all directions behind the wall surface to allow room for the doglegs that retain the frame to the wall surface to swing into position.

Use a stud finder to locate the vertical studs behind the wall surface. Also, you should now check for obstructions like cross bracing above and below the desired speaker location.
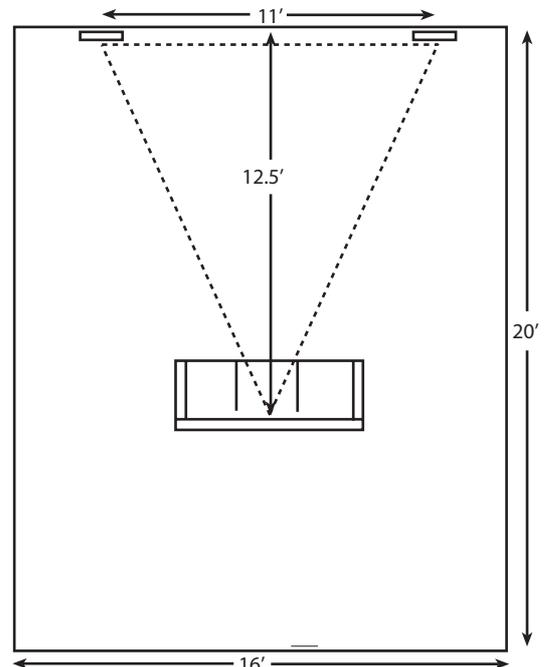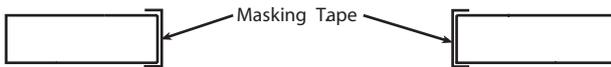

Figure 1

After selection of the mounting location, mark the hole to be cut out. A template is provided in the speaker box. Locate and level the template, then mark with pencil on the wall surface. If you are unsure whether there are obstructions behind the wall surface where the speakers are to be mounted cut a small hole in the center of your marked mounting location. Holding you drywall saw at a 45 degree angle (see Fig. 2) cut a square hole that you can use to find any obstructions, should they exist.

ROOM
Figure 2

The 45 degree wedge shape of the removed surfacing material will make replacement, if necessary, a much easier task and yield a better finish when patching the work.

Once it has been determined that there are no obstructions cut the hole to mount the speaker using the drywall saw at a 90 degree angle to the wall surface. Cover the raw edges of the wallboard with masking tape (see Fig. 3). This will prevent the back pressure of the speaker from blowing loose gypsum dust out and on to the painted wall surface after installation. Do not allow the tape to extend more than 1/4" beyond the edge of the hole into the room. The frame of the AS6s will cover and hide the tape.
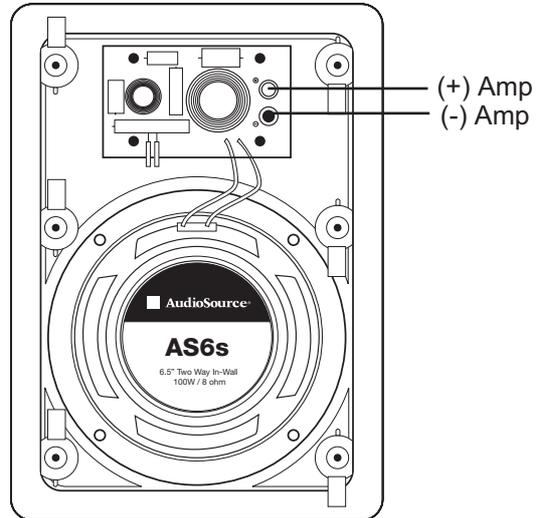
Masking Tape

ROOM
Figure 3

Next you will want to run your speaker wire to your speaker locations. A *UL rated CL3* speaker wire is recommended when running wire inside your walls. In many areas it may be required by code. When running your speaker wire you should avoid having the speaker wire run parallel to the 110V power lines to avoid picking up hum and interference from the power service. If the speaker wire needs to cross a 110V power line at a right angle this is acceptable and should not create a problem.

If you are uncomfortable with running the speaker wire yourself in existing construction, it is recommended that you retain a qualified custom home installation specialist or electrician.
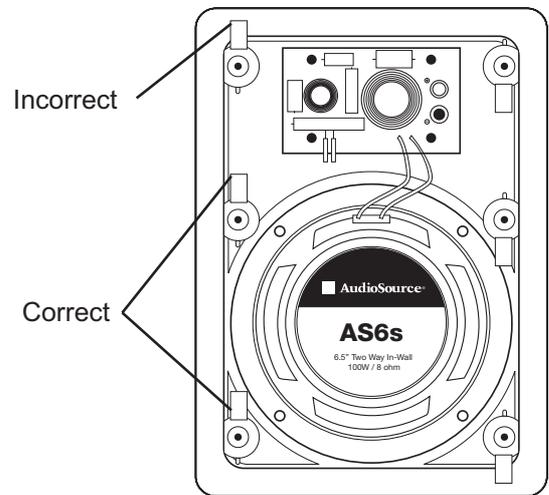
Installing the Speakers

Installation Tip! To further enhance the performance of your AS6s speakers, the wall stud cavity where you plan to place your speakers can be stuffed with a generous quantity of fiberglass insulation. If uninsulated, stuff the area above and under the speaker opening with 6" thick insulation to a depth of approximately 2 feet beginning 1 foot above of and 1 foot below the speaker opening. If the insulation is foil or paper backed, face the backing away from the AS6s speaker. The addition of this insulation will help to prevent the unwanted transfer of sound into the otherwise large and resonant cavity of the uninsulated wall.

It is now time to connect the speaker wire to the AS6s. Your speaker wire is usually coded to identify each conductor as either positive or negative. This can be by color coding, or one conductor may have a printed marking or at least a rib along one edge that you will not find on the other. Identify which type of polarity coding that your wire is using. You must carefully observe that the positive terminal of the speaker output on your amplifier is connected to the positive terminal of the AS6s speaker. Likewise, the negative terminal of the amplifier's speaker output should be connected to the negative terminal of the AS6s speaker.
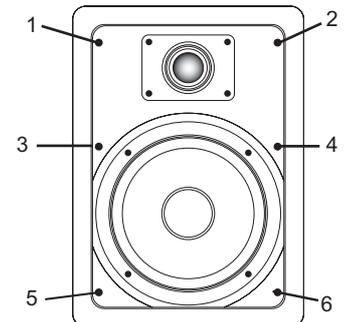
(+) Amp
(-) Amp

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100W / 8 ohm

Next make sure that the doglegs are positioned inside the frame of the speaker.

Incorrect

Correct

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100W / 8 ohm

With the grill removed, place the speaker in the wall opening. Make sure that the speaker wire is not hanging against the speaker where it can vibrate and rattle as the speaker reproduces your music.

Next, one at a time, turn each of the six screws that operate the doglegs counter clockwise a few turns until you feel the dogleg is loose from its resting position. Now turn the screw clockwise until you feel the dogleg contact the wall surface.

1 2
3 4
5 6

2

Tighten all six of the mounting screws in the same manner until the speaker is properly aligned and held tight to the wall surface. *Caution: Do not over tighten!*
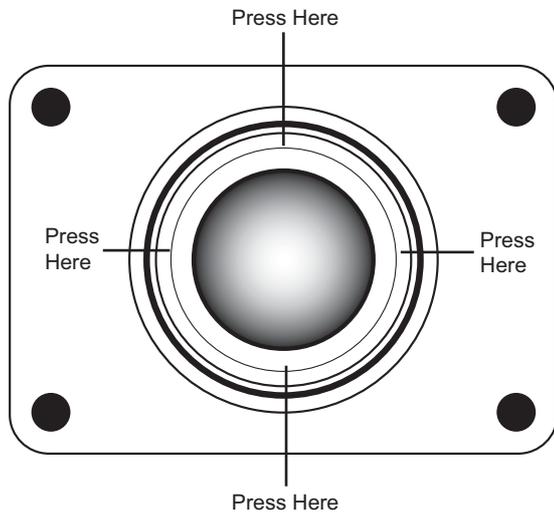
Painting the Speaker

Two paint shields are included in each AS6s speaker package. Place the paint shield inside the frame to protect the speakers. You can now safely paint the speakers frame to match your wall surface if you desire.

When painting the grill caution should be taken to ensure that paint does not clog or congest the perforated openings in the grill. This would prevent proper operation of the grill by restricting the airflow from the individual drivers in the speaker.

Aiming the Tweeter

Use you fingertips, placed carefully at the plastic edges of the tweeter housing.

Press Here

Press Here

Press Here

Press Here

Using gentle pressure swivel the tweeter to aim the axis of the tweeter toward the listening area. You can use a piece of music with a solid center imaged vocalist to assist in correctly aiming the tweeter. When the tweeters are properly aligned for the listening area you will hear a coherent and stable center image from your listening position. Usually, it is sufficient to aim the tweeter only as it handles the frequencies that control the direction of individual sounds in your audio program material.

Removing the AS6s Speaker

Should it ever become necessary to remove the AS6s speaker from the wall, simply remove the grill and turn the six mounting screws counter-clockwise until the doglegs lock out of position in their resting flange. The speaker should easily come out of the wall for service or replacement.

Recommended Speaker Wire Gauges

The resistance of the speaker wire in your installation can cause your speakers to perform at less than their optimum quality level. Excess resistance caused by using an undersized speaker wire can result in loss of detail and definition in the bass region of your audio program, as well as, a loss of dynamic range. Over extremely long wire runs you may even experience a loss of high frequency amplitude in the audio signal.
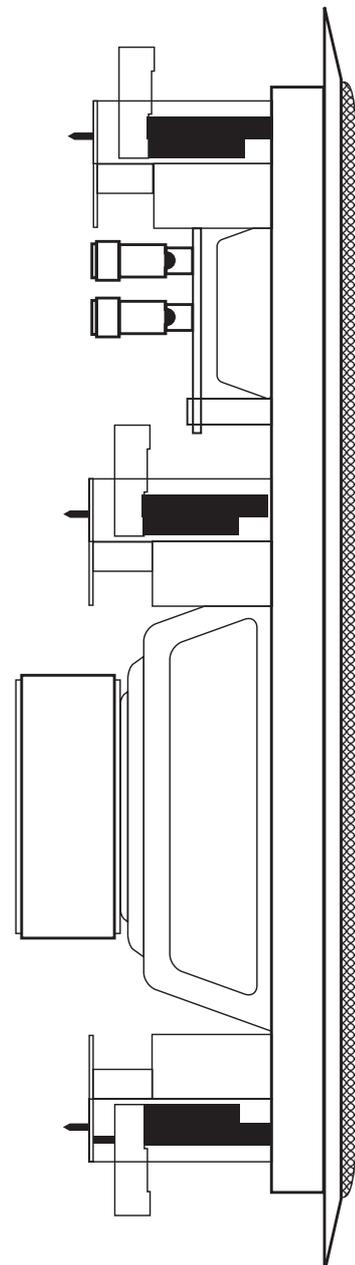
To prevent this effect in your installation we have recommended speaker wire gauges that should not exceed 0.5 ohms resistance over the recommended length of wire run.

For the AS6s speakers we suggest the following minimum speaker wire gauge be used:

50' or less - 16 Gauge 2-Cond. CL3
50' - 150' - 12 Gauge 2-Cond. CL3
150' - 200' - 10 Gauge 2-Cond. CL3

3

AS6s Specifications

Woofer	**6.5" Poly Cone with Butyl Rubber Surround**
Tweeter	**Pivoting 25mm Ferro-Fluid Cooled Tweeter**
Frequency Response	**50Hz to 20kHz**
Impedance	**8 ohm**
Sensitivity	**87dB**
Power Capacity	**200 Watts Peak**
Outer Dimension	**8.5" x 12" (215.9mm x 304.8mm)**
Cut Out Dimension	**7.3" x 10.8" (185.7mm x 274.6mm)**
Mounting depth	**3.4" (85.75mm)**

Two Year Limited Warranty

AudioSource a division of Rodin warrants this product against defects in materials and workmanship for a limited period of time. For a period of two (2) years from date of original purchase, we will repair or replace the product, at our option, without charge for parts. Customer must pay for all labor charges associated with the removal and re-installation of speakers for the limited period and all parts and labor charges after the limited warranty period expires. The limited warranty period for factory refurbished products expires after ninety (90) days from date of original purchase. This limited warranty applies only to purchases from authorized AudioSource Retailers or Distributors. This limited warranty is extended only to the original purchaser and is valid only to consumers in the United States.

Consumers are required to provide a copy of the original sales invoice from an authorized AudioSource Retailer or Distributor when making a claim against this limited warranty. This limited warranty only covers failures due to defects in materials or workmanship that occur during normal use. It does not cover failures resulting from accident, fire, flood, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, modification, service by anyone other than AudioSource, or damage that is attributable to Acts of God. It does not cover costs of transportation to AudioSource or damage in transit. The customer should return their defective product, freight prepaid and insured, to AudioSource. only after receiving a Return Authorization.

Repair or replacement under the terms of this warranty does not extend the term of this warranty. Should a product prove to be defective in workmanship or material, the consumer's sole remedies will be repair or replacement as provided under the terms of this warranty. If the defective product is discontinued AudioSource may replace the product with an equivalent or superior product at its option. Any cost of re-installation or repair of wall or ceiling surface is the sole responsibility of the customer and that cost shall not be the responsibility of AudioSource. Under no circumstances shall AudioSource be liable for loss or damage, direct,consequential or incidental, arising out of the use of or inability to use the product. There are no express warranties other than described above.

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