

Warranty

JA Audio will repair or replace any defect in material or workmanship which occurs during normal use of this product with new or rebuilt part, free of charge in the USA, for 3 (three) years from the date of original purchase this warranty does not cover damages in shipment, failures caused by other products not supplied by JA Audio or failures due to accident, misuse, or alteration of the equipment.

This warranty is extended only to the original purchaser, and a purchase receipt invoice or other proof of original purchase date will be required before warranty repairs are provided.

SPEAKER ADJUSTMENTS

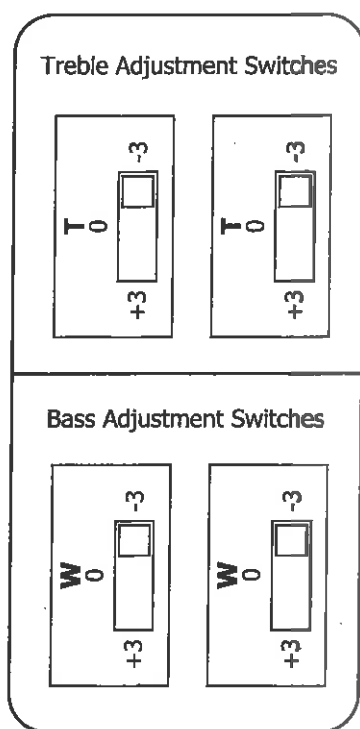
Tweeter Adjustment:

The switch labeled T allows for ± 3 dB of treble adjustment. Your speakers were shipped with the treble switch in the middle position, providing the most linear frequency response. If you desire more treble, move the switch to the "+" position, and the tweeter will play 3dB higher. If you desire less treble, move the switch to the "-" position, and the tweeter will play 3dB lower. To return to the neutral setting, push the switch back to the middle position. (See Diagram)

Woofer Adjustment:

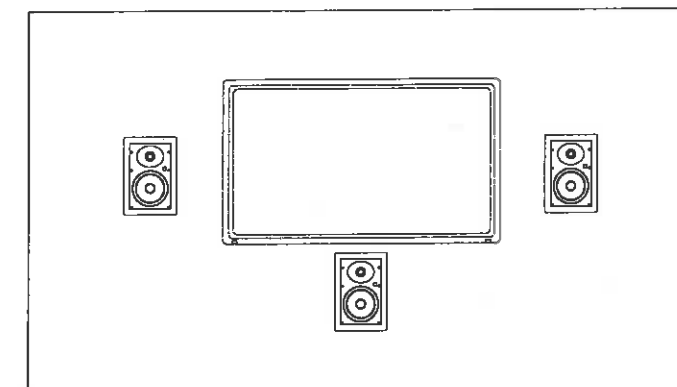
The switch labeled W allows for ± 3 dB of bass adjustment. Your speakers were shipped with the bass set to the middle position, resulting in 12 Ω of impedance. This setting provides the flattest bass frequency response. If you desire more bass, push the switch to the "+" position and the bass will play 3dB higher and lower the impedance to 8 Ω . If you desire less bass, push the switch to the "-" position and the bass will play 3dB lower and increase the impedance to 16 Ω . This setting provides a more linear bass frequency response. To return to the neutral setting, push the switch back to the middle position. (See Diagram) Remember that altering the impedance affects the number of speakers able to be driven by an amplifier. If multiple pairs of speakers are to be driven by one amplifier, JA Audio suggests using the lowest output position (the "-" position) until it is determined that the amplifier will operate properly with the speakers switched to higher output mode.

Adjustment Switches



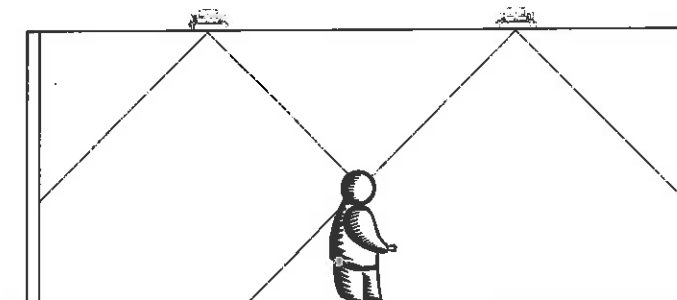
IN WALL PLACEMENT - HOME THEATER

Locate the left and right speaker at the same level as the screen. Depending on the height of the television the center channel can go above or below. Try to keep the center channel as close to the height of the left and right speakers as possible.



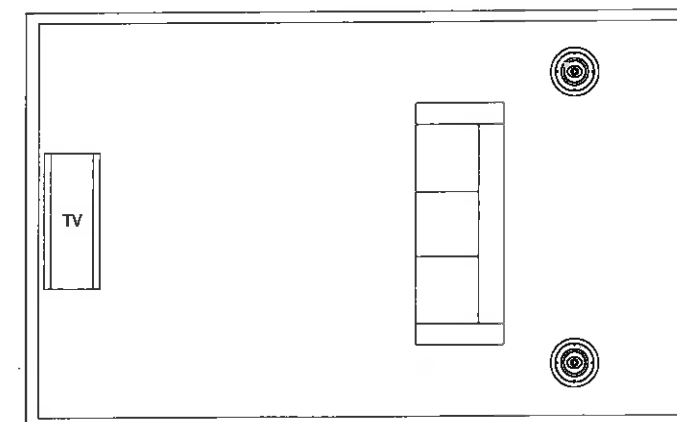
IN CEILING PLACEMENT - STEREO

The JA Audio speakers should be separated approximately 6 to 10 feet apart. If possible, the left and right speakers should be located the same distance from the listening position.



IN CEILING PLACEMENT - HOME THEATER

The JA Audio speakers can be used as surround speakers. When installing the speakers in the ceiling, locate the speakers from 3 to 6 feet behind the listening position and space the speakers from 6 to 10 feet apart.



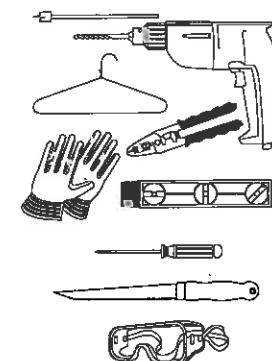
INTRODUCTION

Thank you for purchasing JA Audio speakers. When properly installed, this product will provide you with years of entertainment pleasure.

To obtain the full potential of the JA Audio speakers, please read all instructions before starting the installation.

TOOLS NEEDED:

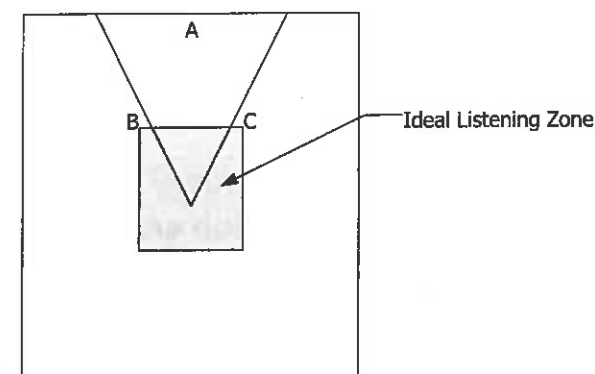
- Pencil
- Keyhole or drywall saw
- Phillips screwdriver
- Small level
- Fish tape or coat hanger
- Wire strippers
- Gloves
- Safety goggles
- Drill
- 1" Flat bit - if drilling through studs
- 1/4" - 1/2" bit - for test hole



IN WALL PLACEMENT - STEREO

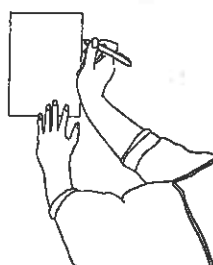
For best performance, the center of the JA Audio speakers should be placed around ear level. This would be approximately 40" for a seated listener and 62" for a standing listener.

The distance from the listener to the speakers and the distance between the speakers should be the same, see diagram. Distance A, B and C should be the same.



INSTALLATION INSTRUCTIONS
IN - WALL INSTALLATION

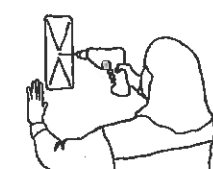
INSTALLATION INSTRUCTIONS
IN - CEILING INSTALLATION



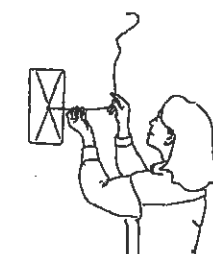
Step 1
Center the speaker between the wall studs. Tap the wall for a "hollow sound" or use a stud finder to locate studs.

Trace around the cardboard template with a pencil for your speaker placement. Make sure the speakers are even and level.


Note: Read step 5 about running wire before deciding on final speaker location.



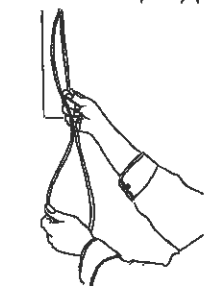
Step 2
Drill a small hole in the center outline you just traced.




Step 3
Bend a piece of coat hanger wire. Insert the wire into the hole, then slowly rotate to check for any obstructions. If there are any obstructions, patch the hole and relocate the speaker.



Step 4
Carefully cut away the outline using a keyhole or drywall saw. Remove the cutout.

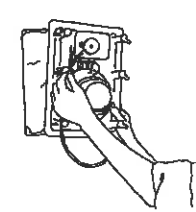


Step 5
Run the cable from the speaker outputs of your receiver or amplifier to your speakers. Allow a few extra feet of cable. You may also splice together lengths of cable if you have a long distance to cover. Leave enough cable slack to strip the conductors and work on the connections.




Step 6
Speaker performance can be enhanced by insulating the cavity with fiberglass insulation.

When installing speakers in a wall, it is best to install a sheet of unfaced fiberglass insulation behind and around the sides and back of the speaker.

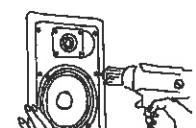


Step 7
Pull the cable slack through the hole in the wall and strip off the outer jacket. Strip about 1/2" of insulation off the ends of the wires. Connect the positive wire from the amplifier to the red terminal on the speaker. Connect the negative wire to the black terminal on the speaker.

Note: Make sure the power is tuned off on your amplifier or receiver before connecting the speakers.




Step 8
Remove the speaker grille by pushing the Flexbar screws towards the front of the speaker. Place the speaker into the cutout in the wall.



Step 9
Tighten the screws evenly until the speaker is flat against the wall.

Note: If you are using a drill to tighten the screws be sure to set the drill to its lowest torque setting.




Step 10
Reinsert the grill into the speaker baffle.

PAINTING THE SPEAKERS AND GRILLES

The JA Audio speakers feature a tough weather resistant ABS finish that may be painted to color match your surroundings. First, remove the grille from the baffle. The driver components must be protected from paint when spraying. Second, insert the supplied paint plug to protect the speaker components during painting. Remove the paint plug when you are finished painting.


The grilles may be lightly sprayed with thin paint (5 parts thinning agent to 1 part paint), but be careful not to plug the holes. Too much paint will adversely affect the sound of the speaker.



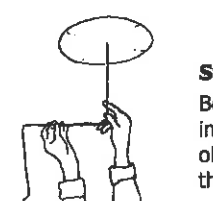
Step 1
Center the speaker between the ceiling joists. Tap the ceiling for a "hollow sound" or use a stud finder to locate studs.

Trace around the cardboard template with a pencil for your speaker placement. Make sure the speakers are even and level.


Note: Read step 5 about running wire before deciding on a final speaker location.



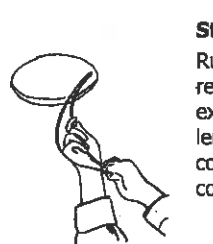
Step 2
Drill a small hole in the center outline you just traced.




Step 3
Bend a piece of coat hanger wire. Insert the wire into the hole, then slowly rotate to check for any obstructions. If there are any obstructions, patch the hole and relocate the speaker.



Step 4
Carefully cut away the outline using a keyhole or drywall saw. Remove the cutout.




Step 5
Run the cable from the speaker outputs of your receiver or amplifier to your speakers. Allow a few extra feet of cable. You may also splice together lengths of cable if you have a long distance to cover. Leave enough cable slack to strip the conductors and work on the connections.




Step 6
Speaker performance can be enhanced by insulating the cavity with fiberglass insulation.

When installing speakers in a ceiling, it is best to install a sheet of unfaced fiberglass insulation behind and around the back of the speaker.




Step 7
Pull the cable slack through the hole in the ceiling and strip off the outer jacket. Strip about 1/2" of insulation off the ends of the wires. Connect the positive wire from the amplifier to the red terminal on the speaker. Connect the negative wire to the black terminal on the speaker.

Note: Make sure the power is tuned off on your amplifier or receiver before connecting the speakers.

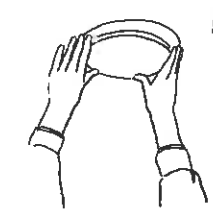


Step 8
Remove the speaker grille by pushing one of the screws towards the front of the speaker. Place the speaker into the cutout in the ceiling.



Step 9
Tighten the screws evenly until the speaker is flat against the ceiling.

Note: If you are using a drill to tighten the screws be sure to set the drill to its lowest torque setting.



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