



AxV60 / AxV80

INSTALLATION GUIDE

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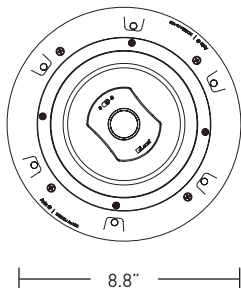
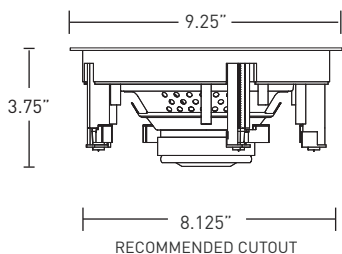
Leon's new Axis AxV60 and AxV80 in-wall/in-ceiling speakers offer the extreme versatility and high-performance necessary for Living Space Theater applications. The subtle design and engineering cues found in these speakers will engage any set of critical eyes and ears in the room. Every screw, cone, grill and bevel is designed to produce lifelike sound with the least amount of diffraction, offering a high-fidelity audio experience from an unobtrusive custom installed speaker.

To accommodate a wide variety of design aesthetics in a room, each speaker comes with both a round and a square grill which can be custom painted in-house and features an EQ switch to tailor the sound to the room surfaces, placement or desired balance.

- Available with 6" or 8" drivers and 1" Tetron-woven tweeters
- Can be custom painted by Leon to match any wall color or paint code
- Available with either round or square magnetic grills
- Features easily-accessible EQ switch to tailor the sound to the room
- Rubber dampening finish on baffle minimizes coloration
- Extremely small form factor design installs easily in-wall or in-ceiling

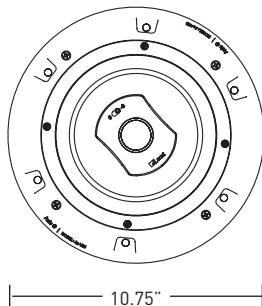
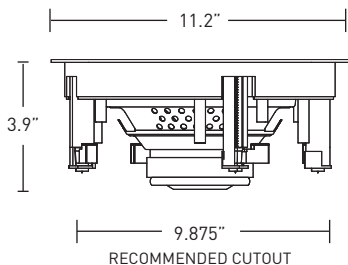
TECHNICAL SPECIFICATIONS

AxV60



COMPONENTS	6" midrange woofer; 1" Tetron-woven tweeter
POWER HANDLING	50W RMS / 125W Peak
SENSITIVITY	89 dB @ 1w/1m
FREQ. RESPONSE	45Hz-22kHz
IMPEDANCE	6Ω

AxV80



COMPONENTS	8" midrange woofer; 1" Tetron-woven tweeter
POWER HANDLING	50W RMS / 150W Peak
SENSITIVITY	90 dB @ 1w/1m
FREQ. RESPONSE	40Hz-22kHz
IMPEDANCE	6Ω

INSTALLATION

CHOOSING THE BEST PLACE TO INSTALL YOUR SPEAKERS

Since speaker installation is permanent and the furniture placement may not be, you should first determine the best long-term location for the speakers. Take into consideration a design that might accommodate future relocation of the furniture in the room and still provide well-balanced sound to the primary listening area. In most cases, when the installed speakers look balanced, symmetric and in place they'll sound good within the room.

For optimal results, the speakers should be placed 8' to 12' apart forming a triangle with the listener's position. For balanced sound, place each speaker at an equal distance from the prime listening position. For optimum coverage in large rooms, use two to three pairs spaced evenly.

Aesthetic appearance is also important. Align the speakers with the light fixtures and other ceiling details while maintaining 12" to 16" from electrical devices. Be cognizant of ceiling fan locations, air ducts, and other construction materials that may impede installation depths. Each speaker should have a clearance of 1" (25mm) around the mounting hole to properly clamp all mounting hardware.

BEFORE YOU START

This manual assumes the installer possesses skill in the proper use of handheld and power tools, knowledge of local building and fire codes, and familiarity with the environment behind the wall or ceiling in which the speakers will be installed.

TOOLS YOU'LL NEED

- Utility knife, jig saw, or other tool for cutting the required hole in the mounting surface
- Phillips screwdriver (#2), if you use a cordless drill or screwdriver, set the clutch as recommended
- Wire cutter or stripper for preparing the speaker wires
- Tape measure
- Level
- Pencil
- Possible wire fishing tools and rods

INSTALLATION (CONTINUED)

WARNING

Always turn off the amplifier or receiver when connecting speakers or any other components to the system.

NEW CONSTRUCTION INSTALLATIONS

New construction is the easiest time to choose and wire each speaker location. It is suggested that you use pre-construction brackets to simplify final installation. Pre-construction brackets are designed to act as a speaker locator for finish contractors. It is highly recommended that you consult with the finish contractors to discuss the cut out requirements in each room.

Performance of the Axis custom installed speaker can be enhanced if the wall or ceiling cavity is filled with standard fiberglass insulation. If there is already insulation in the wall or ceiling that has a paper backing facing the speaker, remove the backing in the area behind the installation location. Taking steps to increase the rigidity of the mounting surface by using additional drywall screws, and/or the use of a construction adhesive between the drywall and joists adjacent to the speaker location, will further enhance performance while strengthening the wall around the speaker. Vibrations can cause plaster to fail and crack, paint to chip and screw heads may show in the drywall and other masonry materials.

RETROFIT INSTALLATIONS

1. Mark the outline of the installation hole using the supplied template.
2. Make a small hole at the center of the speaker location.

QUICK TIP: Insert a bent piece of coat hanger wire and rotate to confirm that there are no obstructions behind the location.

3. Continue cutting along the outline using shallow cuts to avoid possible electrical wiring.
4. Run the speaker wire in the wall down to the amplifier/receiver location. Allow for a 3' service loop for removal and easy movement of equipment.
5. Follow the **'ALL INSTALLATIONS'** steps 1-4 on the following page.



ALL INSTALLATIONS

1. Strip 1/2-inch (13mm) of insulation from the wire, and twist the wire strands together. The Axis speaker terminals will accept either bare wire up to 12-gauge, or single banana plugs.
2. Connect the wire to the speaker (positive to red, negative to black).
3. Slide the speaker into the cutout.
4. Tighten each mounting clamp to an appropriate amount of torque. The mounting clamp should be tight enough to keep the speaker from spinning in the cutout hole but not over-tightened to the point of damaging the construction materials or the speaker. **If using a cordless drill/screwdriver, take the necessary precautions to set the clutch.**

PAINTING THE AXIS SPEAKER GRILLES

The Axis AxV60/AxV80 speakers are supplied with two grille choices: round or square. The grille and frames are one piece and can't be separated. Additionally, each grille has an acoustically transparent scrim cloth attached to the inside of the grille for hiding components when installed. The scrim cloth can be removed and reinstalled, if desired, after painting. The adhesive used is a special formula that provides a tacky feel strong enough to hold the grille in place but easily removed and reapplied.

First, carefully remove the scrim cloth from any corner and slowly pull the grille cloth away from the metal grille. The grille can now be quickly prepared for painting. The grille and frame can be painted without primer. It is recommended to use a paint thinner and compressed air to paint the grille. Paint will not affect the magnetic grille or its abilities to maintain a strong hold to the baffle. The magnets are very strong and are located in the baffle. Finally, replace the scrim cloth after painting to prevent the speaker components from showing through.

Leon Speakers' custom paint shop can also produce professional paint matched results. Consult your Leon Speakers sales representative for more information.



715 W. Ellsworth Road Ann Arbor, Michigan 48108 | 1.888.213.5015 | www.leonspeakers.com

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