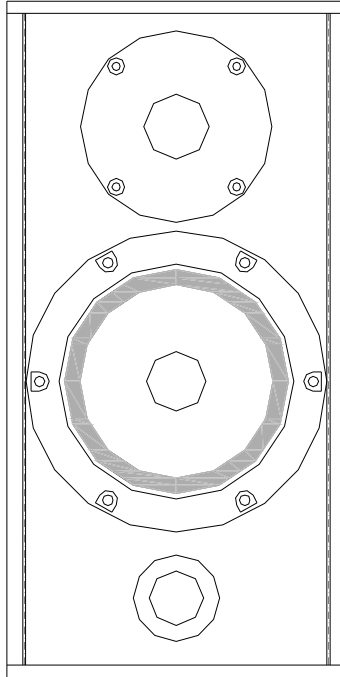


AVANT 150

aluminum extruded bookshelf speaker | owners manual



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www.sonodyne.com

INTRODUCTION

Congratulations on your choice of the Avant 150. By choosing this aluminum extruded bookshelf loudspeaker, you are ensured a natural sound reproduction. This speaker may be utilized as the main speakers in your stereo and home theater listening. Additionally, you may also use them for surround sound reproduction. To help you get listening quickly, we have included here our thoughts on the setup and listening processes. And after you are all set up, do drop us a line through www.sonodyne.com.

UNPACKING

Your carton contains 1 x Avant 150 bookshelf speaker.

We suggest that the Avant 150 be 'broken in', i.e., played for some time, so that it may quickly start performing at its best! If you do not want to do this when you are at home set your source unit, i.e., CD player on "repeat entire disc" mode. Then, allow the loudspeaker to play at moderate volume level for a 6 - 8 hours.

NOTE : Please retain all packing materials in case you need to transport the Avant 150

The Avant 150 is equipped with gold-plated binding post terminals, where red indicates +ve and black indicates -ve. The following information should assist in choosing the correct cable if extra cable is required:

Cable run	Cable gauge
< 3 m	14/36 (14 strands of 36 SWG)
3-6 m	23/36
> 6 m	48/36

Please proceed with the connection in the following fashion:

- Turn off the amplifier.
- Gently pull off the insulation on the cable ends (which has been pre-cut at the factory).
- Twist the strands on the wire together.
- Turn the gold plated binding posts counter-clockwise until the twisted wires can be easily inserted into the holes.
- Turn the binding posts clockwise to secure the cables in the terminals.
- Ensure the connection is a tight fit. Also ensure that no loose strand of the wire is projecting from either of the cables.

NOTE:

- A. Verify that the wires from the +ve and -ve cables do not touch each other, as a short-circuit could damage the amplifier's output stage.
- B. Verify that the loudspeaker is in proper phase: The + (red) terminal on the loudspeaker is connected to the + (red) terminal on the amplifier. The - (black) terminal on the loudspeaker is connected to the - (black) terminal on the amplifier.
- C. The Avant 150 terminals also accept banana plugs. If you use the connectors, do take heed of points A and B

AMPLIFIER SELECTION

We recommend using amplifiers whose continuous (rms) power per channel is greater than or equal to that the Avant 150 handles. In the event that the power is greater, care must be taken to avoid playing music at excessively loud levels and thus damage the speaker. Also, while using an amplifier with rms power lower than the rated power handling of the Avant 150, please ensure that the amplifier level is kept a few steps below maximum level. Lower powered amplifier, operating at close to max, often produce distorted signals, or very powerful musical signals. This can lead to damage of the high frequency driver, the tweeter.

ACOUSTICS OF THE LISTENING ROOM

The acoustical makeup of your listening room is key in determining how good (or bad) is the sound that reaches your ear. The contents of a room (carpets, curtains, furniture etc.), its shape, and the material of which the boundaries are made, make or break your sound. The idea is to have a listening area where the absorptions and reflections are calibrated to attain, as far as possible, a neutral environment. While there are no 'quick fix' formulae to convert a room to an 'ideal listening room', here are some things that you might try to attain optimal performance.

In your listening room, clap your hands, snap your fingers, and jingle a ring of keys.

If the resulting sound is unintelligible (muffled), and resonating, your room is inclined toward being reflective. In this event, you might want to: Hang up curtains/ Lay a carpet or rug / Introduce book cases/other racks. In the event that the resulting sound is too damped your room is inclined toward being absorptive. You might want to remove some of the absorptive material (like those given above).

• speaker placement •

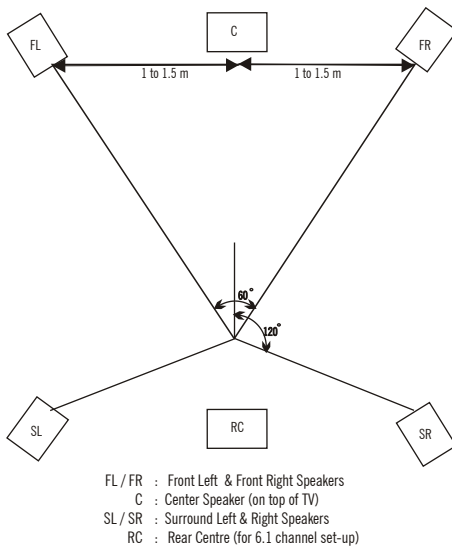
Finding the right position for the Avant 150s is also very important. The following should aid in locating that optimal position while using them as front speakers:

- Ensure that there are no objects between the speaker and the listener. In general, placing a loudspeaker near a rear and/or side wall will boost the low frequency level but at the same time create reflections in the midrange and treble area, which results in a deterioration of the stereo perspective. Therefore, it is not possible to recommend one single perfect placement in relation to the rear wall, as the optimum distance will depend very much on the acoustics of the listening room. As a guideline, the optimum placing will be about 30 to 60 cm from the rear wall. The distance to the side wall should be at least 50 - 80 cm.
- The distance between the 150s should be the same as the distance from either loudspeaker (left and right) to your preferred listening position (thus forming an equilateral triangle with the left, right speakers, and you as the three vertices.) If distances are not a premium, then the optimal position could be attained by playing a stereo recording, separating the 1501 still an acoustical (hole) is formed in the middle. Then bring the two 150s together to attain a uniform sound front.
- The 150s should be angled slightly toward the listening position, to adjust the higher frequencies (treble response) level to suit the room acoustics and your taste. This will also ensure that the optimum listening position becomes less critical.
- The 150s should also be placed on either a solid bookshelf or a floor stand to raise the center point of the loudspeaker's front baffle position (mid position between the woofer's center and the tweeter's center) to the actual ear level, which for a person of average height is about 1m from the floor.
- The Avant 150 is also excellent at reproducing discrete surround sound information. To do so:
 - Place the speakers on the wall using a customised shelf, or using the Sonodyne AV150(SW) wall mount or AV150(FS) floor mount brackets.
 - Tilt the speakers so that they aim at the listening area.
 - The 150 may be placed on the rear or side walls. Ideally, the distance between the speakers and the seating area extremity should not exceed 2m. However, since rooms are different, we recommend that you experiment for best results

Please refer Fig. 1 on page 5 for ideal 5.1 and 6.1 placements

• fig. 1 • care & maintenance •

FIG. 1:
TYPICAL 5.1/ 6.1 CHANNEL SET-UP



The figure shows ideal seating arrangement.
Practically however, actual placement distances may differ.

CARE & MAINTENANCE

All Sonodyne loudspeakers of the Avant range are manufactured with modern and thoroughly tested materials, which normally do not require any maintenance other than once in a while opening the front grille and vacuuming the cloth. If the loudspeaker's cabinet becomes greasy you may clean it by moistening a soft cloth with water and a mild soap to remove the dirt. Then, use a dry cloth to wipe and restore the original finish.

Please DO NOT use scouring powder, petrol, or any sort of alcohol or solvents to clean the loudspeaker. It will damage the finish permanently.

The Avant 150 has two accessories: The floor mount and the wall mount.

FIG. 2: FLOOR MOUNT

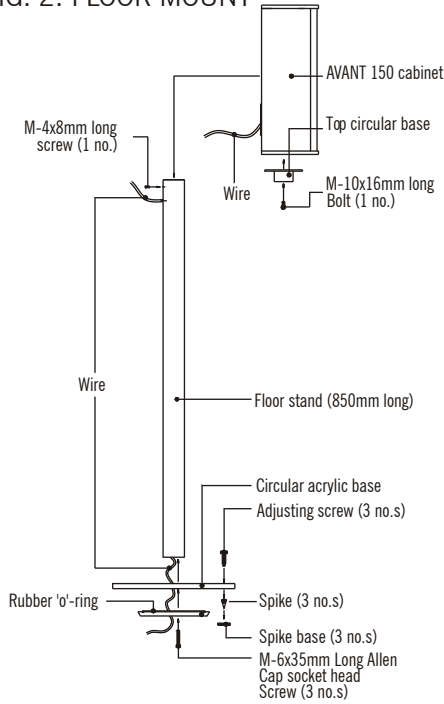
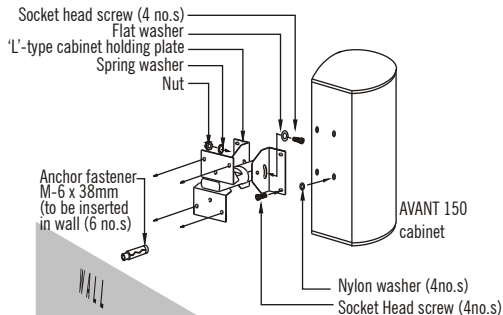


FIG. 3: WALL MOUNT



• specifications •

DESCRIPTION:	2-way vented bookshelf speaker
CABINET - MATERIAL:	Aluminium extrusion with die cast endcaps
TRANSDUCER COMPLEMENTS:	1 x 130mm Woofer 1 x 26mm Silk Dome Tweeter
NOMINAL IMPEDANCE:	8 Ohm
FREQ. RESPONSE (- 3dB):	90 Hz ~ 20 kHz
SENSITIVITY (1w/1m):	90 dB
CONTINUOUS POWER:	75 Watt
CROSSOVER TYPE:	4th Order Linkwitz Riley
GRILL:	Acoustically transparent cloth stretched over perforated nylon grill
DIMENSIONS (HxWxD) mm:	353 x 177 x 136 (cabinet only) 353 x 177 x 168 (with terminal)
NET WEIGHT:	6 Kg



A product of the **Mukherjee Innovation Centre**

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