

TOTAL SOLUTIONS™



TOTAL SPEAKER SOLUTIONS

SAT-450

Owner's Guide



SAT-450 OWNER'S GUIDE

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Declaration of Conformity



We, Harman Consumer International
2, route de Tours
72500 Chateau-du-Loir
France

declare in own responsibility that the product described
in this owner's manual is in compliance with technical
standards:

EN 50081-1:1992

EN 50082-1:1997

A handwritten signature in blue ink that reads "Robin Marshall".

Robin Marshall
Harman Consumer International
Chateau-du-Loir, France 10/03

INTRODUCTION

Infinity Total Solutions™

Infinity Total Solutions continues Infinity's longstanding commitment to accurate sound reproduction. Our high-quality drivers, precision dividing networks and rigid, well-braced enclosures combine to deliver uncompromised performance in any stereo or multichannel home theater system. In addition, these speakers, except for the powered subwoofer, are magnetically shielded for safe placement adjacent to a television.

Unpacking the Speaker

If you suspect damage from transit, report it immediately to your dealer. Keep the shipping carton and packing materials for future use.

PLACEMENT

Stereo

Before deciding where to place your speakers, survey your room and think about placement, keeping the following points in mind, using Figure 1 as a guide:

- For best results, place the speakers 6'–8' apart.
- Position each speaker so that the tweeter is approximately at ear level.
- Generally, bass output will increase as the speaker is moved closer to a wall or corner.
- Refer to "Home Theater" if you also plan to use the speakers for home theater reproduction.

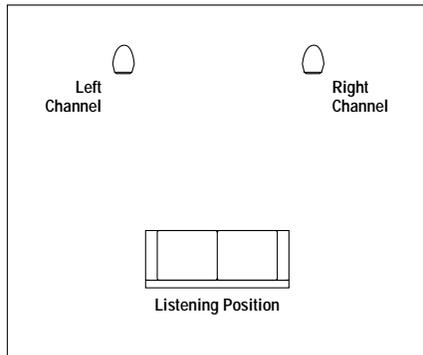


Figure 1. This overhead view shows typical positioning in stereo applications.

Home Theater

For front-channel use, place one speaker on the left and another on the right, along either side of the television monitor. Since the speakers are magnetically shielded, you can place them without worrying about the field distorting the TV picture.

For surround-channel use, place speakers on bookshelves or stands alongside the listening position. Final placement depends on room acoustics, availability of space, and your listening preference (Figures 2 and 3).

In 6- or 7-channel configurations, place the rear channel(s) behind the listening position, as shown in Figures 2 and 3.

NOTE: An Infinity powered subwoofer will add impact and realism to both music and film soundtracks. Contact your Infinity dealer for recommendations on subwoofer models for your application.

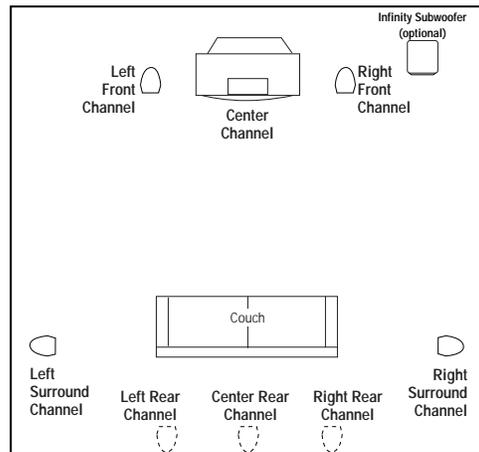


Figure 2. This overhead view shows a typical home theater plan. Left/right rear channels are for a 7-channel system. Center rear channel is for a 6-channel system.

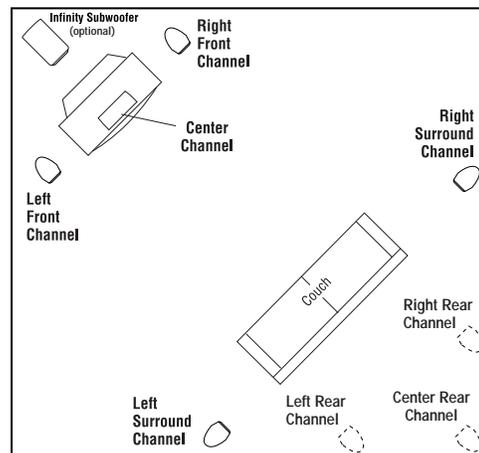


Figure 3. This figure shows an alternate layout, which may be more suitable for some rooms. Left/right rear channels are for a 7-channel system. Center rear channel is for a 6-channel system.

WALL-MOUNTING THE SATELLITE

The TSS-450 satellite is designed to be mounted on the wall. There is a wall bracket for each satellite speaker. Each speaker bracket will require (4) 1-1/2," #10 wood screws; each screw should be fastened to a wall stud. If a wall stud is unavailable, install an anchor appropriate for a 1-1/2," #10 screw.

NOTE: The customer is responsible for the correct selection and use of mounting hardware (available through hardware stores) that will ensure the proper and safe wall-mounting of the speakers.

Step 1.

Mark the positions on the wall where you would like to place the mounting screws.

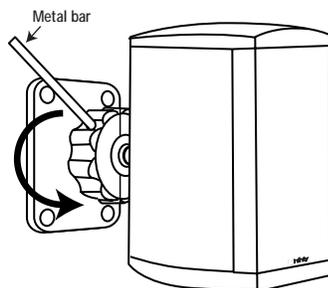
Step 2.

Place bracket against wall and fasten four 1-1/2," #10 wood screws through the bracket's screw holes into the wall. If a wall stud is not available, use an appropriate anchor.

Step 3.

Screw the post of the bracket into the 1/4"-20 threaded insert on the back of the satellite. Adjust the satellite to the desired angle and tighten the knob using the enclosed metal bar.

Figure 4.



Bracket on wall.

SPEAKER CONNECTIONS

Turn Off All Power

First, turn off all audio-system power. Use high-quality speaker wire to make your connections. #18-Gauge speaker wire with polarity coding is recommended. For longer distances, #16-gauge or heavier wire is recommended. The side of the wire with a ridge or other coding is usually considered positive polarity (i.e., +). Also, consult the owner's manuals that were included with your amplifier or receiver to confirm connection procedures. Observe polarities when making speaker connections, as shown in Figure 5. Connect each + terminal on the amplifier or receiver to the respective + (red) terminal on each speaker. Connect the - (black) terminals in the same way.

Important!

Do not reverse polarities (i.e., + to - or - to +) when making connections. Doing so will cause poor imaging and diminished bass response. Be certain that positive and negative wire strands are completely isolated to avoid short circuits that may damage your equipment.

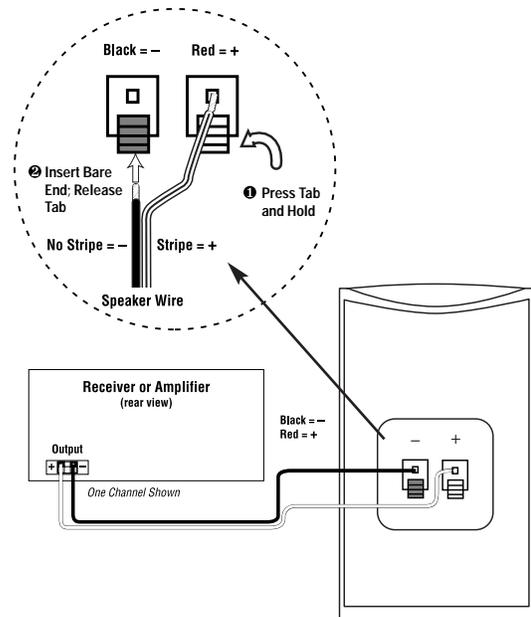


Figure 5. Wiring diagram shows polarity connections for one channel of a home theater system.

OPERATION

Surround Modes

When using the system in a Dolby* Digital or DTS® home theater system, make sure all SAT-450 speakers are set to "Small".

When using the SAT-450 in a Dolby Pro Logic* home theater system, make sure the receiver's center channel mode is set to "Normal."

Some Dolby Digital-equipped receivers/processors offer different setup options for each source or surround mode, e.g., CD-stereo, videotape, Dolby, Pro Logic. In each case, follow your equipment's instructions to ensure that the subwoofer output is turned on and that the speakers are set to "Small" in each mode.

MAINTENANCE AND SERVICE

The satellite enclosure may be cleaned using a soft cloth to remove fingerprints or to wipe off dust.

All wiring connections should be inspected and cleaned or remade periodically. The frequency of maintenance depends on the metals involved in the connections, atmospheric conditions, and other factors, but once per year is the minimum.

If a problem occurs, make sure that all connections are properly made and clean. If a problem exists in one loudspeaker, reverse the connection wires to the left and right system. If the problem remains in the same speaker, then the fault is with the loudspeaker. If the problem appears in the opposite speaker, the cause is in another component or cable. In the event that your SAT-450 ever needs service, contact your local Infinity dealer or Infinity directly at 516.674.4INF (4463) (USA only) or www.infinitysystems.com for a service center near you.

SPECIFICATIONS

SAT-450

Frequency Range: 150Hz – 20,000Hz (±3dB)

Recommended Amplifier Power Range: 10 – 100 watts

Sensitivity: 86dB
(2.83V @ 1 meter)

Nominal Impedance: 8Ω

Crossover Frequency: 7000Hz, 24dB/octave

Midrange Driver(s): 2-1/2,"
magnetically shielded

High-Frequency Driver: 1/2,"
magnetically shielded

Dimensions (H x W x D): 5" x 3-1/2" x 3-1/2"
(127mm x 88mm x 88mm)

Weight: 1.2 lb (0.5kg)

Infinity continually strives to update and improve existing products, as well as create new ones. The specifications and construction details in this and related Infinity publications are therefore subject to change without notice.

NOTES



TECHNOLOGY • PERFORMANCE • DESIGN

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