

# JBL

**PERFORMANCE™  
INTEGRATOR**

IS5, IS6, IS8, IS6C, IS8C,  
IS6DT

**OWNER'S GUIDE**

# THANK YOU FOR CHOOSING JBL

For more than 60 years, JBL has been involved in every aspect of music and film recording and reproduction, from live performances to monitoring the recordings you play in your home, car or office.

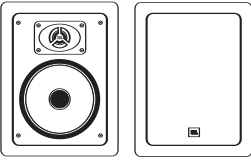
We're confident that the JBL loudspeakers you have chosen will provide every note of enjoyment that you expected – and that when you think about purchasing additional audio equipment for your home, car or office, you will once again choose JBL.

Please take a moment to register your product on our Web site at [www.jbl.com](http://www.jbl.com). It enables us to keep you posted on our latest advancements, and helps us to better understand our customers and build products that meet their needs and expectations.

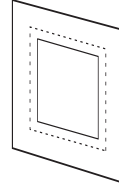
JBL Consumer Products

## INCLUDED

### IS5, IS6, IS8

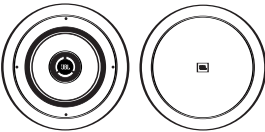


One pair of speakers with grilles.

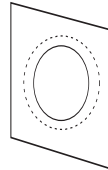


Template/paint shield. Remove paint shield (inner rectangle) at perforation.

### IS6C, IS6DT, IS8C



One pair of speakers with grilles (IS6C and IS8C). Model IS6DT includes only one loudspeaker, since it is capable of reproducing two channels of audio.



Template/paint shield. Remove paint shield (inner circle) at perforation.

## SPEAKER PLACEMENT

Proper placement of the speakers is an important step in obtaining the most realistic soundstage possible. These recommendations are for the optimum placement of the loudspeakers. Use these placement recommendations as a guide. Slight variations will not diminish your listening pleasure.

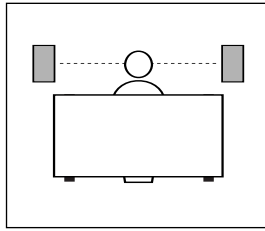
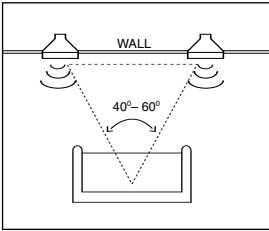
The front speakers should be placed the same distance from each other as they are from the listening position. They should be placed at about the same height from the floor as the listener's ears will be, with the tweeters aimed toward the listener at ear-level height. In a home theater configuration,

the two surround speakers should be placed slightly behind the listening position and ideally should face each other and be at a level higher than the listener's ears. If that is not possible, they may be placed in a wall (or in the ceiling) behind the listening position, facing forward. The surround speakers

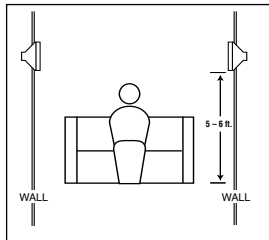
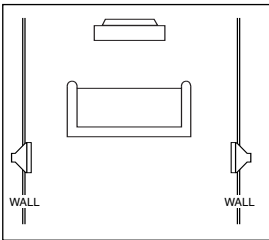
should not call attention to themselves. They should provide a diffuse, ambient sound accompanying the main program material heard in the

front speakers. In Dolby® Digital and DTS® systems, aim the tweeters toward the listening position at ear-level height.

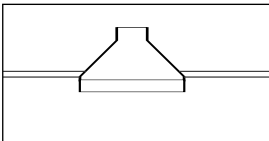
## FRONT SPEAKERS



## MODELS IS5, IS6, IS8 AS REAR SPEAKERS



## MODEL IS6DT IN-CEILING



The IS6DT has the capability of playing two channels through one speaker, thanks to its dual-tweeter/dual-voice-coil construction. Since the tweeters are close together, in general they should be aimed away from each other for best coverage.

For two-channel (stereo) applications, e.g., as a single speaker in a remote room of a distributed audio system, install the

IS6DT speaker centrally in the ceiling for best stereo imaging, swiveling the tweeters so that one points toward the left and the other toward the right of the listening position, aimed at ear-level height.

The IS6DT may also be used to play the left and right surround channels in a 5.1-channel home theater system, in which case it should be mounted in the ceiling slightly behind the listening position, centered from left to right and with the tweeters pointing toward the left and right of the listening position, aimed at ear-level height.

For 7.1-channel systems where it is desired to use two IS6DT speakers, one to play both the left surround and surround back channels and the other to play both the right surround and surround back channels, mount each IS6DT speaker in the ceiling, slightly behind the listening position. Place one closer to the left side of the room and the other closer to the right side. Aim the tweeters away from each other, toward the front and rear of the room.

# SPEAKER CONNECTIONS

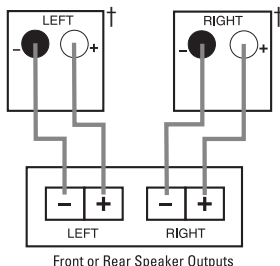
## CONNECTION TIPS



The wires for both speakers should be the same length. If one speaker is placed closer to the amplifier than the other, hide the excess wire behind the wall. Speakers and electronics terminals have corresponding (+) and (-) terminals. Most manufacturers of speakers and electronics, including JBL, use red to denote the (+) terminal and black for the (-) terminal. It is important to connect both speakers identically: (+) on the speaker to (+) on the amplifier and (-) on the speaker to (-) on the amplifier. Wiring "out of phase" results in thin sound, weak bass and a poor stereo image. With the advent of multi-channel surround sound systems, connecting all of the speakers in your system with

the correct polarity remains equally important in order to preserve the proper ambience and directionality of the program material.

To use the push-type speaker terminals, press the red (+) or black (-) cap for the desired terminal, insert the bare end of the speaker wire into the hole below the cap and release the cap. Gently tug on the wire to make sure that it is fully inserted.



† For model IS6DT, the terminals for both the left and right channels will be on the same loudspeaker.

## WIRE LENGTH

Up to 20 ft.

Up to 30 ft.

Greater than 30 ft.

## RECOMMENDED SIZE

16 gauge

12 gauge

10 gauge

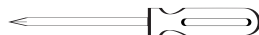
# INSTALLATION

Performance Integrator in-wall loudspeakers are designed to be easily installed. However, if you are unsure of your ability to properly install these speakers, please contact your dealer or a qualified installer.

## TOOLS NEEDED



Pencil



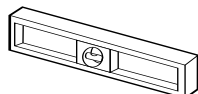
Phillips #2 screwdriver



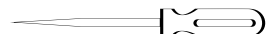
Measuring tape



Utility knife



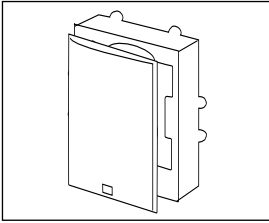
Carpenter's level



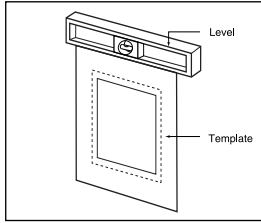
Awl

# EXISTING CONSTRUCTION

## IS5, IS6, IS8

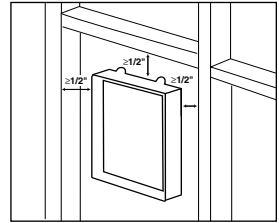


Remove the grille from the speaker frame by pulling on the paper tab. If the tab is missing, to avoid scratching the grille or baffle you may unfold a paper clip, insert the straight end through one of the holes in the grille, and gently pull up.

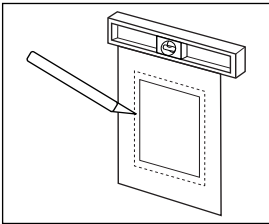


Determine the correct speaker location.

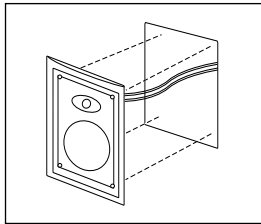
**Note:** Remove the inner template, which is the paint shield, at the perforation. Use the outer template when cutting the drywall.



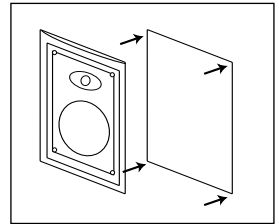
**Note:** Always allow at least one-half inch between a wall stud and the speaker cutout or the locking tabs will not be able to swivel into place.



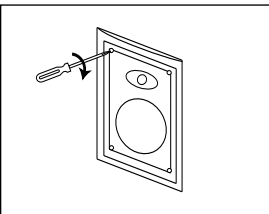
Cut the drywall.



Connect the speaker wires to the speaker.

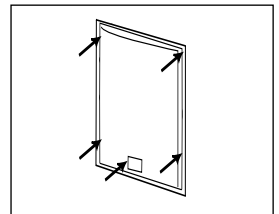


Place the frame assembly in the wall.



Screw down each of the four Phillips-head screws. The locking tabs will swivel into place and secure the unit to the rear surface of the drywall.

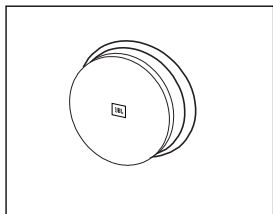
JBL Performance Integrator speakers feature unique swivel mounts for the tweeters that enable you to aim the very directional high frequencies toward the listening position, at ear-level height. Before installing the speaker grille, gently press on the outer edge of the tweeter mount to adjust the position of the tweeter. The tweeter will not swivel more than 15 degrees in any direction; do not attempt to force it to move further. You may also rotate the tweeter to orient the JBL logo as desired.



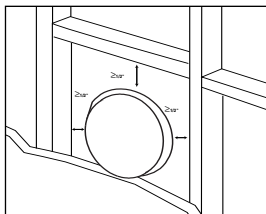
Replace the metal grille.

# EXISTING CONSTRUCTION

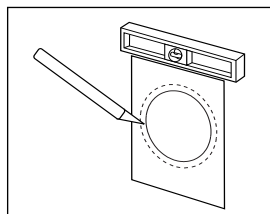
## IS6C, IS6DT, IS8C



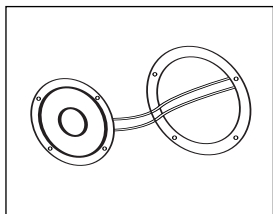
Remove the grille from the speaker frame by pulling on the paper tab. If the tab is missing, to avoid scratching the grille or baffle you may unfold a paper clip, insert the straight end through one of the holes in the grille, and gently pull up.



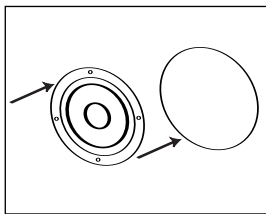
Determine the correct speaker location.  
**Note:** Remove the inner template, which is the paint shield, at the perforation. Use the outer template when cutting the drywall.



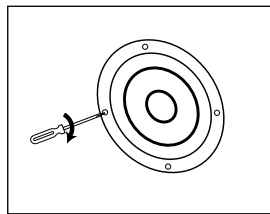
Cut the drywall.  
**Note:** Always allow at least one-half inch between a wall stud and the speaker cutout or the locking tabs will not be able to swivel into place.



Connect the speaker wires to the speaker. Model IS6DT requires two sets of speaker wires, one for each channel.



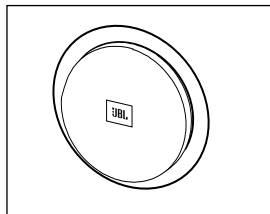
Place the frame assembly in the wall.



Screw down each of the four Phillips-head screws. The locking tabs will swivel into place and secure the unit to the rear surface of the drywall.

Performance Integrator loudspeakers feature unique swivel mounts for the tweeters, enabling you to aim the very directional high frequencies toward the listening position, at ear-level height. Before installing the speaker grille, gently press on the outer edge of the tweeter mount to adjust the position of the tweeter. The tweeter will not swivel more than 15 degrees in any direction; do not attempt to force it to move

any further. You may also rotate the tweeter to orient the JBL logo as desired. The dual tweeters of the IS6DT speaker may be swiveled independently. Optimum imaging will be obtained by aiming the tweeters to the left and right of the listening position, at ear-level height, if your application permits.



Replace the metal grille.

## NEW CONSTRUCTION

You will need to purchase the correct rough-in frame kit for your model:

<b>SPEAKER MODEL</b>	<b>ROUGH-IN FRAME KIT</b>
IS5	RIF5
IS6	RIF6
IS6C, IS6DT	RIF6C (pair pack)/RIF6CS (single pack)
IS8	RIF8
IS8C	RIF8C

Detailed installation instructions are supplied with the rough-in kit.

## PAINTING THE SPEAKER FRAME AND GRILLE

Performance Integrator loudspeakers can be painted to match any décor. If you wish to change their color, the satin finish on the grille and frame will function as a primer coat. Before painting, install the paint shield (inner section of template in the assembly kit) securely into the recess in the

baffle. This will protect the speaker components and baffle from paint residue. Use a high-quality spray paint, and apply a thin coat of color.

**Be certain the grille perforations remain free of paint. Filling them with paint will diminish the sound quality.**

**Note:** Gently remove the acoustical foam blanket from the grille before painting. Reattach the blanket after the paint has dried.

## TROUBLESHOOTING

### **IF THERE IS NO SOUND FROM ANY OF THE SPEAKERS:**

- Check that receiver/amplifier is on and a source is playing.
- Check all wires and connections between receiver/amplifier and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut, punctured or touching each other.
- Review proper operation of your receiver/amplifier.

### **IF THERE IS NO SOUND COMING FROM ONE SPEAKER:**

- Check the "Balance" control on your receiver/amplifier.
- Check all wires and connections between receiver/amplifier and speakers. Make sure all wires are connected. Make

sure none of the speaker wires are frayed, cut, punctured or touching each other.

### **IF THERE IS LOW (OR NO) BASS OUTPUT:**

- Make sure the connections to the left and right "Speaker Inputs" have the correct polarity (+ and -).
- Consider adding a powered subwoofer to your system.
- In Dolby Digital or DTS modes, make sure your receiver/processor is correctly configured. When using a subwoofer, make sure the subwoofer output of the receiver/processor has been enabled. If no subwoofer is being used, make sure the left and right front and rear speakers have been configured as "LARGE." See your receiver/processor's

owner's manual for further information on correct speaker configuration in Dolby Digital, DTS and other surround sound modes.

### **IF THE SYSTEM PLAYS AT LOW VOLUMES BUT SHUTS OFF AS VOLUME IS INCREASED:**

- Check all wires and connections between receiver/amplifier and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut, punctured or touching each other.
- If more than one pair of main speakers is being used, check the minimum-impedance requirements of your receiver/amplifier.

# SPECIFICATIONS

## IS5

**Frequency Response**  
45Hz – 20kHz (–10dB)  
**Recommended Maximum Amplifier Power †**  
60 watts

**Impedance**  
8 ohms nominal

**Sensitivity**  
87dB (2.83V/1m)

**Crossover Frequency**  
3,000Hz

**Woofer**  
5-1/4" Titanium-laminate cone w/rubber surround

**Tweeter**  
1" Titanium-laminate dome, w/Elliptical Oblate Spheroidal™ waveguide and swivel mount

**Plate Size (W x H)**  
7-1/2" x 10" (191mm x 254mm)

**Mounting Cutout Size (W x H)**  
6-1/8" x 8-11/16" (156mm x 221mm)

**Mounting Depth**  
3-3/4" (95mm)

**Weight per Speaker**  
4 lb (1.8kg)

## IS6

**Frequency Response**  
38Hz – 20kHz (–10dB)  
**Recommended Maximum Amplifier Power †**  
80 watts

**Impedance**  
8 ohms nominal

**Sensitivity**  
88dB (2.83V/1m)

**Crossover Frequency**  
2,800Hz

**Woofer**  
6-1/2" Titanium-laminate cone w/rubber surround

**Tweeter**  
1" Titanium-laminate dome, w/Elliptical Oblate Spheroidal™ waveguide and swivel mount

**Plate Size (W x H)**  
8-1/2" x 11" (216mm x 279mm)

**Mounting Cutout Size (W x H)**  
7-1/8" x 9-11/16" (181mm x 246mm)

**Mounting Depth**  
3-7/8" (98mm)

**Weight per Speaker**  
5 lb (2.3kg)

## IS6C

**Frequency Response**  
40Hz – 20kHz (–10dB)  
**Recommended Maximum Amplifier Power †**  
80 watts

**Impedance**  
8 ohms nominal

**Sensitivity**  
88dB (2.83V/1m)

**Crossover Frequency**  
2,600Hz

**Woofer**  
6-1/2" Titanium-laminate cone w/rubber surround

**Tweeter**  
1" Titanium-laminate dome, w/swivel mount

**Plate Size (Diameter)**  
9-3/16" (233mm)

**Mounting Cutout Size (Dia.)**  
7-7/8" (200mm)

**Mounting Depth**  
4-1/4" (108mm)

**Weight per Speaker**  
4.5 lb (2.0kg)

## IS6DT

**Frequency Response**  
40Hz – 20kHz (–10dB)  
**Recommended Maximum Amplifier Power †**  
100 watts total (50W/PC)

**Impedance**  
8 ohms nominal per input

**Sensitivity**  
88dB (2.83V/1m), both channels driven

**Crossover Frequency**  
2,600Hz

**Woofer**  
6-1/2" Titanium-laminate cone w/rubber surround

**Tweeters**  
Dual 3/4" titanium-laminate domes, w/swivel mounts

**Plate Size (Diameter)**  
9-3/16" (233mm)

**Mounting Cutout Size (Dia.)**  
7-7/8" (200mm)

**Mounting Depth**  
4-1/4" (108mm)

**Weight per Speaker**  
4 lb (1.8kg)

## IS8

**Frequency Response**  
30Hz – 20kHz (–10dB)  
**Recommended Maximum Amplifier Power †**  
100 watts

**Impedance**  
8 ohms nominal

**Sensitivity**  
89dB (2.83V/1m)

**Crossover Frequency**  
2,400Hz

**Woofer**  
8" Titanium-laminate cone w/rubber surround

**Tweeter**  
1" Titanium-laminate dome, w/Elliptical Oblate Spheroidal™ waveguide and swivel mount

**Plate Size (W x H)**  
10-1/8" x 13-1/8" (257mm x 333mm)

**Mounting Cutout Size (W x H)**  
8-7/8" x 11-13/16" (225mm x 300mm)

**Mounting Depth**  
4" (102mm)

**Weight per Speaker**  
7.8 lb (3.5kg)

## IS8C

**Frequency Response**  
32Hz – 20kHz (–10dB)  
**Recommended Maximum Amplifier Power †**  
100 watts

**Impedance**  
8 ohms nominal

**Sensitivity**  
89dB (2.83V/1m)

**Crossover Frequency**  
2,400Hz

**Woofer**  
8" Titanium-laminate cone w/rubber surround

**Tweeter**  
1" Titanium-laminate dome, w/swivel mount

**Plate Size (Diameter)**  
10-7/8" (275mm)

**Mounting Cutout Size (Dia.)**  
9-1/2" (240mm)

**Mounting Depth**  
4-1/4" (108mm)

**Weight per Speaker**  
5.6 lb (2.5kg)

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Dolby is a registered trademark of Dolby Laboratories.

DTS is a registered trademark of DTS, Inc.

† The maximum recommended amplifier power rating will ensure proper system headroom to allow for occasional peaks. We do not recommend sustained operation at these maximum power levels.

All features and specifications are subject to change without notice.


Declaration of Conformity




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

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

EN 61000-6-3:2001  
EN 61000-6-1:2001

  
 Laurent Rault  
 Harman Consumer Group International  
 Chateau du Loir, France 10/05

<h1>OWNER'S GUIDE</h1>	 <b>PRO SOUND COMES HOME™</b>
<b>PRODUCT LINE:</b> <b>PERFORMANCE™ INTEGRATOR</b>	JBL Consumer Products 250 Crossways Park Drive, Woodbury, NY 11797 8500 Balboa Boulevard, Northridge, CA 91329 516.255.4JBL (4525) www.jbl.com
<b>MODELS:</b> <b>IS5, IS6, IS8, IS6C, IS8C, IS6DT,</b>	<b>NOTE:</b> For new-construction applications, be sure to purchase the correct rough-in frame kit.
<b>DESIGN GOAL:</b> Combine the superior performance of traditional JBL loudspeakers with the convenience of in-wall installation.	© 2005 Harman International Industries, Incorporated. All rights reserved.
<b>TWEETER TYPE:</b> Titanium-laminate-dome with swivel mount	Part Nos. 406-000-05371-E 170-1034
<b>WOOFER TYPE:</b> Titanium-laminate cone with rubber surround	<b>H</b> A Harman International™ Company
<b>CROSSOVER NETWORK:</b> Straight-Line Signal Path™ (SSP)	
<b>PROFESSIONAL REFERENCE:</b> Studio Monitor	



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