

JBL

**HOME THEATER
IN-WALL SERIES**

HT16, HT18, HT155 and
HT16C

OWNER'S GUIDE

THANK YOU FOR CHOOSING JBL

For more than 50 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.

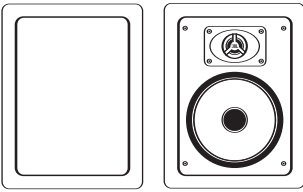
We're confident that the JBL loudspeakers you have chosen will provide every note of enjoyment that you expected – and that when you think about purchasing additional audio equipment for your home, car or office, you will once again choose JBL.

Please take a moment to register your product on our Web site at www.jbl.com. 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

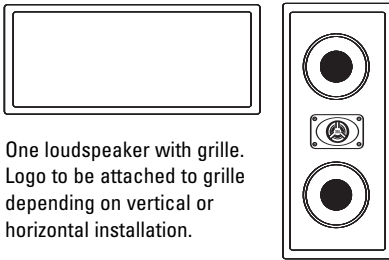
INCLUDED

HTI6, HTI8



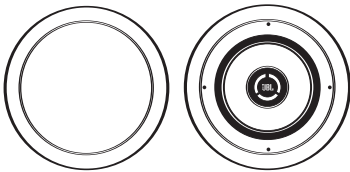
One pair of speakers with grilles.

HTI55

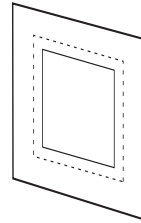


One loudspeaker with grille. Logo to be attached to grille depending on vertical or horizontal installation.

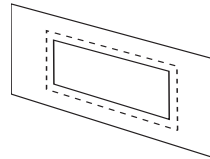
HTI6C



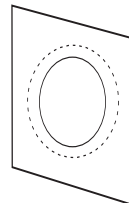
One pair of speakers with grilles.



Template/paint shield (punch out at perforation).



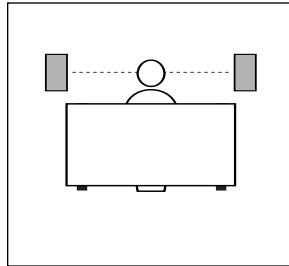
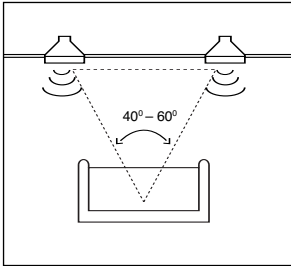
Template/paint shield (punch out at perforation).



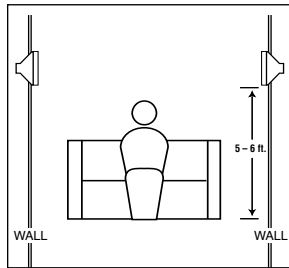
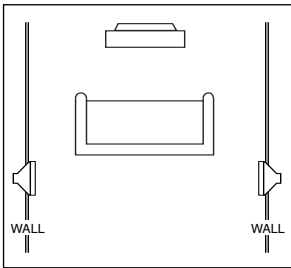
Template/paint shield (punch out at perforation).

SPEAKER PLACEMENT

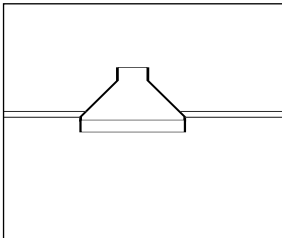
Front Speakers (HTI6, HTI8, HTI55)



Models HTI6, HTI8 and HTI55 as Rear Speakers



Model HTI6C in Ceiling



Proper placement of the speakers is an important step in obtaining the most realistic soundstage possible. These recommendations are for the optimal 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 listeners' ears will be, with the tweeters aimed toward the listening position at ear-level height.

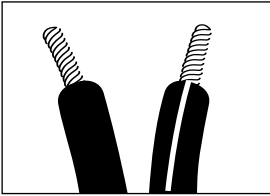
Model HTI55 is suitable for the front left, center and right positions, and may also be used as a side surround or surround back speaker. It may be mounted horizontally or vertically, but make sure to position it so that the tweeters for all of the front speakers are at the same height (or differ by no more than 2 feet). You may rotate the tweeter to correctly orient the JBL logo.

In a home theater configuration, the two surround speakers should be placed slightly behind the listening position and, ideally, should face each

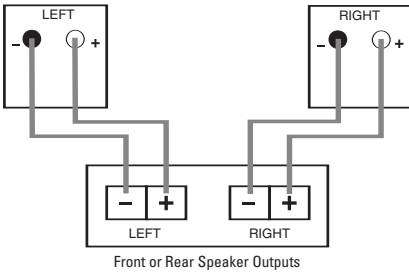
other and be at a level higher than the listeners' ears. If that is not possible, they may be placed in a wall behind the listening position, facing forward. The rear wall is the required mounting position for the surround back speakers in 6.1- and 7.1-channel systems. The surround speakers should not 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.

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.

Wire Length

Up to 20 ft.
Up to 30 ft.
Greater than 30 ft.

Recommended Size

16-Gauge
12-Gauge
10-Gauge

INSTALLATION

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

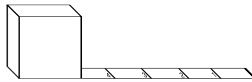
Tools Needed



Pencil



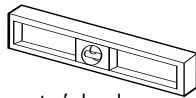
Phillips #2 screwdriver



Measuring tape



Utility knife



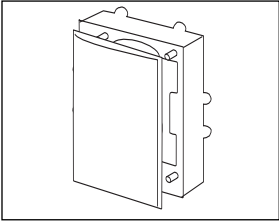
Carpenter's level



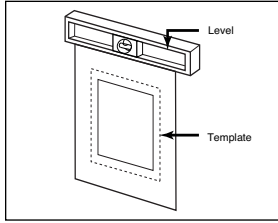
Awl

EXISTING CONSTRUCTION

HTI6, HTI8, HTI55

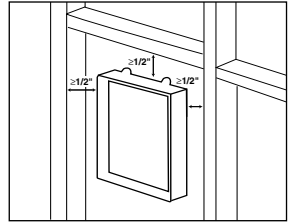


Remove the grille from the speaker frame by pulling on the paper tab. If the tab is missing, to avoid scratching the grille or baffle you may unfold a paper clip, insert the straight end through one of the holes in the grille, and gently pull up.

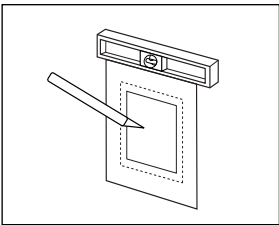


Determine the correct speaker location.

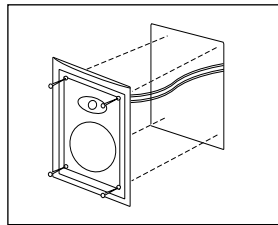
Note: Remove the inner template, which is the paint shield, at the perforation. Use the outer template when cutting the drywall. Although the HTI55 may be oriented either horizontally or vertically, the installation procedure is the same.



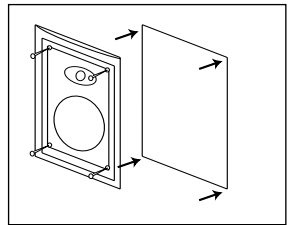
Note: Always allow at least one-half inch between a wall stud and the speaker cutout, or the locking tabs will not be able to swivel into place.



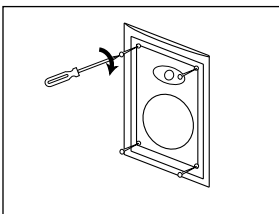
Cut the drywall.



Connect the speaker wires to the speaker.

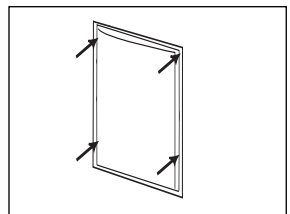


Place the frame assembly in the wall.



Screw down each of the four (six for HTI55) Phillips head screws. The locking tabs will swivel into place and secure the unit to the rear surface of the drywall.

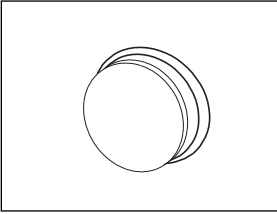
The HTI speakers feature unique swivel mounts for the tweeters that enable you to aim the very directional high frequencies toward the listening position, at ear-level height. Before installing the speaker grille, gently press on the outer edge of the tweeter mount to adjust the position of the tweeter. 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.



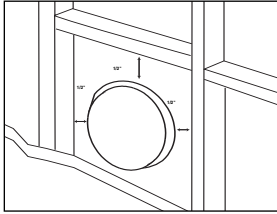
Replace the metal grille. For the HTI55 only, attach the JBL logo to the grille to correspond to vertical or horizontal installation.

EXISTING CONSTRUCTION

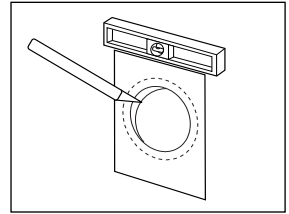
HT16C



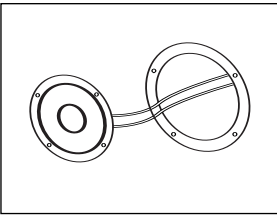
Remove the grille from the speaker frame by pulling on the paper tab. If the tab is missing, to avoid scratching the grille or baffle you may unfold a paper clip, insert the straight end through one of the holes in the grille, and gently pull up.



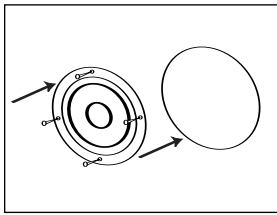
Determine the correct speaker location. **Note:** Remove the inner template, which is the paint shield, at the perforation. Use the outer template when cutting the drywall.



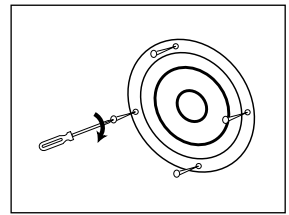
Cut the drywall. **Note:** Always allow at least one-half inch between a wall stud and the speaker cutout or the locking tabs will not be able to swivel into place.



Connect the speaker wires to the speaker.

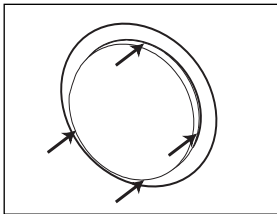


Place the frame assembly in the wall.



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

HTi 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.

NEW CONSTRUCTION

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

Speaker Model	Rough-In Frame Kit
HTI6	RIF6
HTI8	RIF8
HTI55	RIF55
HTI6C	RIF6C

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

PAINTING THE SPEAKER FRAME AND GRILLE

JBL HTI Series 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 (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. In multi-channel applications, make sure that your receiver or processor has been configured to enable all channels that you are using.

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 config-

ured 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

HTI6

Frequency Response

30Hz – 20kHz (–10dB)

Recommended

Maximum Amplifier

Power †

100 watts

Impedance

8 ohms nominal

Sensitivity

88dB (2.83V/1m)

Crossover Frequency

2,800Hz

Woofer

6-1/2" Polymer-coated aluminum cone w/rubber surround

Tweeter

1" Pure-titanium dome, w/Elliptical Oblate Spheroidal™ (EOS) 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

4.75 lb (2.2kg)

HTI8

Frequency Response

30Hz – 20kHz (–10dB)

Recommended

Maximum Amplifier

Power †

120 watts

Impedance

8 ohms nominal

Sensitivity

90dB (2.83V/1m)

Crossover Frequency

2,000Hz

Woofer

8" Polymer-coated aluminum cone w/rubber surround

Tweeter

1" Pure-titanium dome, w/Elliptical Oblate Spheroidal™ (EOS) 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

5.5 lb (2.5kg)

HTI55

Frequency Response

40Hz – 20kHz (–10dB)

Recommended

Maximum Amplifier

Power †

120 watts

Impedance

8 ohms nominal

Sensitivity

88dB (2.83V/1m)

Crossover Frequency

2,000Hz

Woofer

Dual 5" polymer-coated aluminum cone w/rubber surround

Tweeter

1" Pure-titanium dome, w/Elliptical Oblate Spheroidal™ (EOS) waveguide, and swivel mount

Plate Size (W x H)

15-3/8" x 7-1/2" (352mm x 157mm)

Mounting Cutout Size (W x H)

13-7/8" x 6-3/16" (352mm x 157mm)

Mounting Depth

3-7/8" (98mm)

Weight per Speaker

5.7 lb (2.6kg)

HTI6C

Frequency Response

40Hz – 20kHz (–10dB)

Recommended

Maximum Amplifier

Power †

100 watts

Impedance

8 ohms nominal

Sensitivity

88dB (2.83V/1m)

Crossover Frequency

2,400Hz

Woofer

6-1/2" Polymer-coated aluminum cone w/rubber surround

Tweeter

1" Pure-titanium dome, w/swivel mount

Plate Size (Diameter)

9-3/16" (233mm)

Mounting Cutout Size (Diameter)

7-7/8" (200mm)

Mounting Depth

4-1/4" (108mm)

Weight per Speaker

4.2 lb (1.9kg)

All features and specifications are subject to change without notice.

† 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.

* Dolby is a trademark of Dolby Laboratories.

DTS is a registered trademark of Digital Theater Systems, Inc.

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

Gary Madell
Harman Consumer Group International
Chateau-du-Loir, France 2/05

OWNER'S GUIDE

PRODUCT LINE:

JBL Home Theater In-Wall Series

MODELS:

HTI6, HTI8, HTI55 and HTI6C

DESIGN GOAL: Combine the superior performance of traditional JBL loudspeakers with the convenience of in-wall installation.

TWEETER TYPE: Pure-titanium dome with EOS™ waveguide, and swivel mount

WOOFER TYPE: Polymer-coated aluminum cone with rubber surround

CROSSOVER NETWORK: Straight-Line Signal Path™ (SSP)

PROFESSIONAL REFERENCE: Studio Monitor

**PRO SOUND
COMES HOME™**

JBL Consumer Products
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8500 Balboa Boulevard, Northridge, CA 91329
516.255.4JBL (4525) www.jbl.com

NOTE: For new-construction applications, be sure to purchase the correct rough-in frame kit.

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Part No. 170-0033



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