

JBL

JBL CINEMA SOUND™

CST55, CSB5, CSC55,
CSS10

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 the recordings you play in your home, car or office.

We're confident that the JBL system you have chosen will

provide every note of enjoyment that you expect – 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

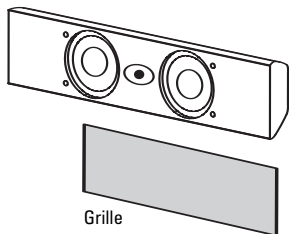
Web site at www.jbl.com.

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.

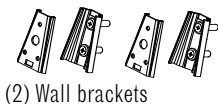
JBL, Incorporated

INCLUDED EACH MODEL SOLD SEPARATELY

CSC55

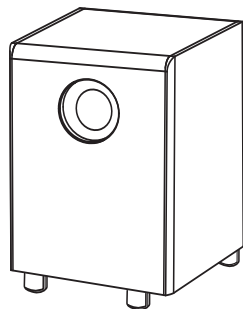


Grille

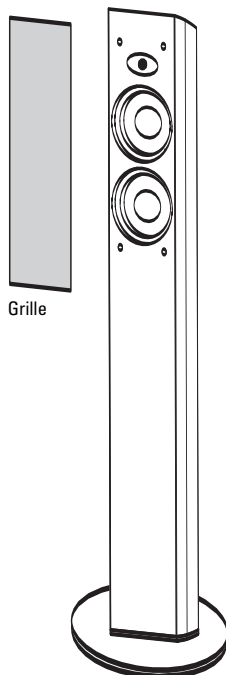


(2) Wall brackets

CSS10

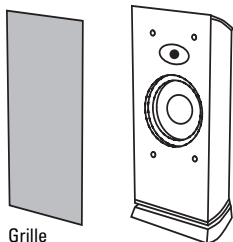


CST55

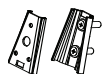


Grille

CSB5



Grille



(1) Wall bracket

READ FIRST! Important Safety Precautions!

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: To reduce the risk of electric shock, do not remove cover (or back).
No user-serviceable parts inside.
Refer servicing to qualified service personnel.


CAUTION: To prevent electric shock, do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus.  When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. Do not use attachments not recommended by the product manufacturer, as they may cause hazards.

16. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power or other sources, refer to the operating instructions.

17. If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.

18. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

19. Do not overload wall outlets, extension cords, or integral convenience receptacles, as this can result in a risk of fire or electric shock.

20. Never push objects of any kind into this product through openings, as they may touch dangerous voltage points or short-out parts, which could result in a fire or electric shock. Never spill liquid of any kind on the product.

21. The apparatus shall not be exposed to dripping or splashing, and no objects filled with liquids, such as vases, shall be placed on the apparatus.

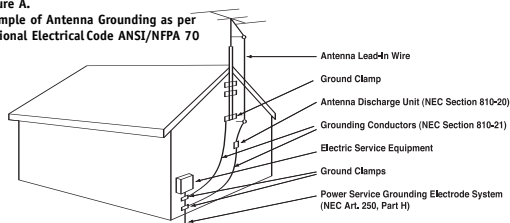
22. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

23. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

24. Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

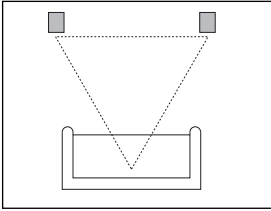
25. The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

Figure A.
Example of Antenna Grounding as per
National Electrical Code ANSI/NFPA 70

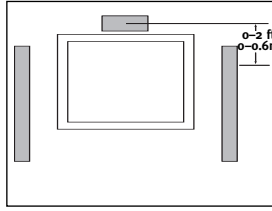


SPEAKER PLACEMENT

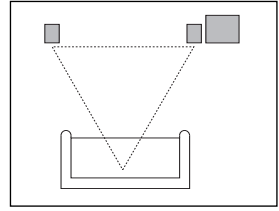
FRONT SPEAKERS



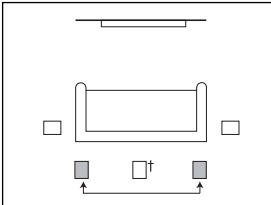
CENTER CHANNEL SPEAKER



SUBWOOFER



SURROUND SPEAKERS



† Single surround back speaker may be used with 6.1 receivers and processors.

Alternate placement for surround speakers when only 5.1 channels are used; required placement for surround back speakers in 7.1-channel systems.

The front speakers should be placed the same distance from each other as they are from the listening position. The CSB5 speakers should be placed at about the same height from the floor as the listeners' ears will be, or they may be angled toward the listeners.

The center channel speaker should be placed slightly behind the front left and right speakers, and no more than 2 feet (0.6m) above or below the tweeters of the left and right speakers. It is often convenient to set the center speaker on top of the television set, as shown in the drawing.

The JBL Cinema Sound speaker system may be used in 5.1-, 6.1- or 7.1-channel applications. In 5.1-channel applications, two of the sur-

round 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 against a wall behind the listening position, facing forward. In 6.1-channel applications, two of the surround speakers should be placed in the side positions, and a single surround back speaker should be placed against the wall behind the listening position. In 7.1-channel applications, place two of the surround speakers in the side positions, and place the two surround back speakers against the rear wall.

In Dolby® Digital and DTS® systems, it is best to aim all of the speakers (except the subwoofer) toward the listening position at or slightly

above about ear-level height. In systems where only analog surround processing (such as Dolby Pro Logic® II) is available, it may be preferable to aim the speakers straight out from the wall to obtain a more diffuse sound.

The low-frequency material reproduced by the subwoofer is mostly omnidirectional, and this speaker may be placed in a convenient location in the room. However, bass reproduction will be maximized when the subwoofer is placed in a corner along the same wall as the front speakers. Experiment with subwoofer placement by temporarily placing the subwoofer in the listening position and moving around the room until the bass reproduction is best. Place the subwoofer in that location.

WALL-MOUNTING THE CSC55 AND CSB5

The CSC55 center channel and the CSB5 are designed to be mounted on the wall. There are two (2) fixed-mount wall brackets provided for the CSC55, and one for the CSB5. Each speaker bracket will require up to three 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) to ensure the proper and safe wall-mounting of the speakers.

Step 1. Using the included mounting template (CSC55 only) or the bracket back plate (CSB5 only), mark the positions on the wall where you would like to place the mounting screws.

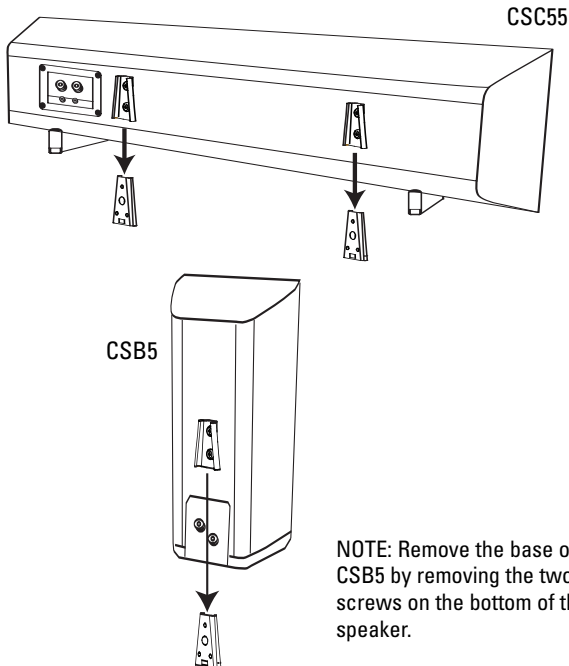
Step 2. Attach the back plate(s) of the bracket to the wall using three screws (not included).

Step 3. Attach the front plate(s) (with the two holes) of the bracket(s) to the CSC55 or CSB5, using the provided screws.

Step 4. Slide the CSC55 or CSB5 speaker with attached bracket front plate(s) onto the back plate(s) of the bracket(s).

Once positioned properly, the speaker should slide down slightly and become secure.

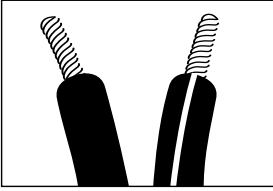
To remove the speaker from the wall, simply slide the speaker up.



NOTE: Remove the base of the CSB5 by removing the two screws on the bottom of the speaker.

SPEAKER CONNECTIONS

CONNECTION TIPS



Separate and strip the ends of the speaker wire as shown. Speakers and electronics terminals have corresponding (+) and (-) terminals. Most manufacturers of speakers and electronics, including JBL, use red to denote the (+) terminal and black to denote the (-) terminal.

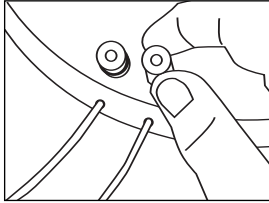
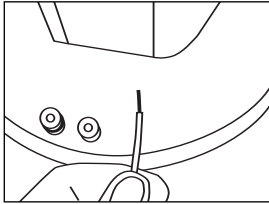
The (+) lead of the speaker wire is noted with a stripe. It is important to connect both speakers identically: (+) on the speaker to (+) on the amplifier and (-) on the speaker to (-) on the amplifier. Wiring "out of phase" results in thin sound, weak bass and a poor stereo image.

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.

CST55

To provide a neater installation, the CST55 allows you to insert the speaker wires through holes in the base.

Simply separate and strip the wires as described above, loosen the terminals and insert each wire into its corresponding hole in the base. Then tighten down the terminals.

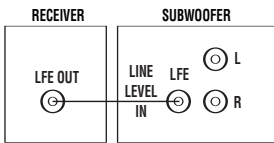


The hole in the center of each collar is intended for use with banana-type connectors. To comply with European CE certification, these holes are blocked with plastic inserts at the point of manufacture. To use banana-type connectors requires the removal of the inserts.

CSB5, CSC55

To use the binding-post speaker terminals, unscrew the colored collar until the pass-through hole in the center post is visible under the collar. Insert the bare end of the wire through this hole; then screw the collar down until the connection is tight. The hole in the center of each collar is intended for use with banana-type connectors. To comply with European CE certification, these holes are blocked with plastic inserts at the point of manufacture. To use banana-type connectors requires the removal of the inserts.

DOLBY® DIGITAL OR DTS® (OR OTHER DIGITAL SURROUND MODE) CONNECTION



Use this installation method for Dolby Digital, DTS or other digital surround processors:

Use the line-level input jack marked "LFE" for the low-

frequency effects channel. Connect this jack to the LFE output or subwoofer output on your receiver or amplifier. Connect each speaker to the corresponding speaker terminals on your receiver or amplifier.

Make sure that you have configured your surround sound processor for "Subwoofer On." Also configure

your receiver for 5.1-, 6.1- or 7.1-channel operation, as appropriate. The front left, front right, center and rear speakers should all be set to "Small." If your receiver allows you to set the crossover frequency between the subwoofer and the main speakers, select 100Hz or the setting that is the closest frequency below it.

DOLBY PRO LOGIC® (NON-DIGITAL) – LINE LEVEL

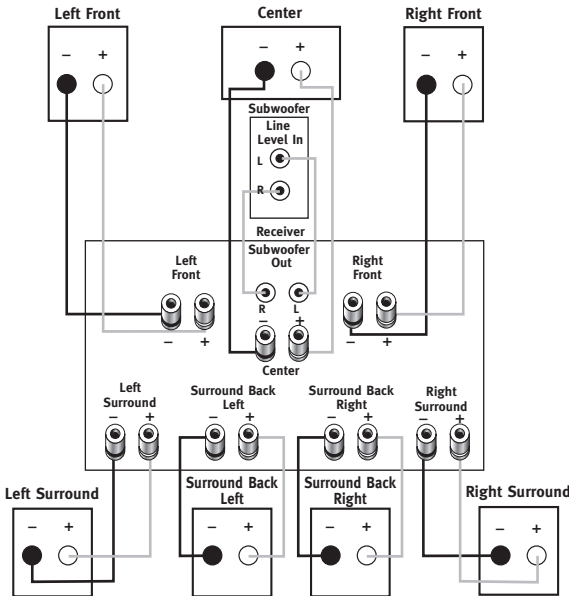
Use this installation method for Dolby Pro Logic applications (not Dolby Digital, DTS or other digital processing), where the receiver/processor is equipped with a subwoofer output, or a volume-controlled preamp (line-) level output:

Use RCA-type interconnects to connect the line-level subwoofer outputs on your receiver or amplifier to the line-level inputs on the subwoofer. **IMPORTANT:** Do not use the LFE input on the subwoofer with Dolby Pro Logic processors.

NOTE: If your receiver or amplifier has only one subwoofer output jack, then you will need to use a Y-connector (not included). Plug the male end of the Y-connector into your receiver or amplifier's subwoofer output jack, and connect each of the two female ends to separate RCA-type interconnects. Finally, plug the RCA-type interconnects into the line-level inputs on the subwoofer.

Connect each speaker to the corresponding speaker terminals on your receiver or amplifier.

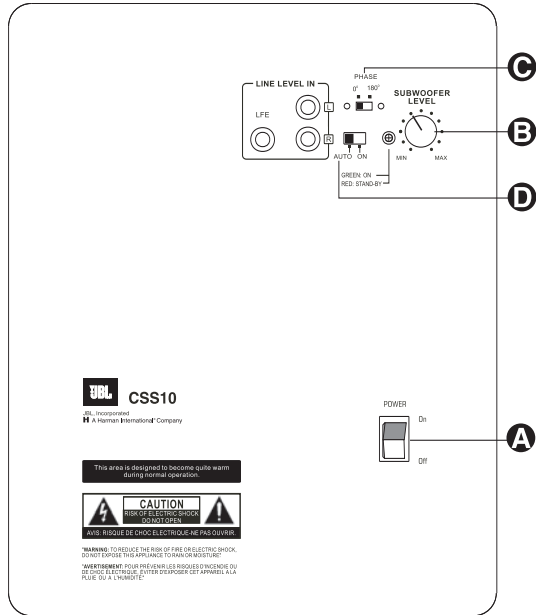
Make sure your receiver or processor is correctly configured to indicate that the subwoofer is "On."



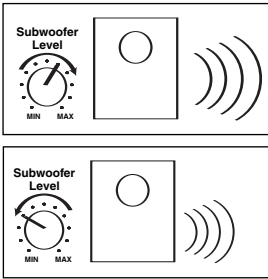
SUBWOOFER OPERATION

Press the Master Power switch (marked "Power" **A**) to the On position to use the subwoofer. The CSS10 subwoofer will automatically turn on or go into standby (sleep) mode. When your receiver or amplifier is off, or is not sending program material to the subwoofer, the subwoofer will be in standby mode (the LED on the front of the CSS10 will be red). When the subwoofer senses an audio signal, it will automatically turn on (the LED will be green). If the subwoofer does not sense a signal after approximately 20 minutes, it will automatically go into standby mode.

If you will be away from home for an extended period of time, or if the subwoofer will not be used, switch the Master Power switch **A** to the Off position by pressing it until it pops out.

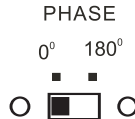


VOLUME



Volume may be adjusted using the Subwoofer Level control **(B)**, as shown.

The Phase control determines whether the subwoofer's pistonlike action moves in and out in phase with the main speakers or opposite the main speakers. There is no correct or incorrect setting. Proper phase adjustment depends on several variables, such as subwoofer placement and listener position. Adjust the Phase switch **(C)** to maximize bass output at the listening position.



Remember, every system, room and listener is different. There are no right or wrong settings; this switch offers the added flexibility to adjust your subwoofer for optimum performance for your specific listening conditions without having to move your speakers. If at some time in the future you happen to rearrange your listening room and move your speakers, you should experiment with the phase switch in both positions, and leave it in the position that maximizes bass performance.

TROUBLESHOOTING

If there is no sound from any of the speakers:

- Check that receiver/amplifier is on and a source is playing.
- Check that the powered subwoofer is plugged in and is turned on (Power switch **A** pushed in).
- 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 or 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 or punctured, or touching each other.
- In Dolby Digital or DTS modes, make sure that the receiver/amplifier is configured so that the speaker in question is enabled.
- Turn off all electronics and switch the speaker in question with one of the other speakers that is working correctly. Turn everything back on, and determine whether the problem has followed the speaker or has remained in the same channel. If the problem is in the same channel, the source of the problem is most likely with your receiver or amplifier, and you should consult the owner's manual for that product for further information.

If the problem has followed the speaker, consult your dealer for further assistance or, if that is not possible, visit www.jbl.com.

If there is no sound from the center speaker:

- Check all wires and connections between receiver/amplifier and speaker. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured, or touching each other.
 - If your receiver/processor is set in Dolby Pro Logic mode, make sure the center speaker is not in phantom mode.
 - If your receiver/processor is set in one of the Dolby Digital or DTS modes, make sure the receiver/processor is configured so that the center speaker is enabled.
- If the system plays at low volumes but shuts off as volume is increased:**
- Check all wires and connections between receiver/processor and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or 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.

If there is low (or no) bass output:

- Make sure the connections to the left and right "Speaker Inputs" have the correct polarity (+ and -).
- Make sure the subwoofer is plugged into an active electrical outlet and is turned on (Power switch **A** pushed in).

- In Dolby Digital or DTS modes, make sure your receiver/processor is configured so that the subwoofer and LFE output are enabled.
- Switch the Phase switch **C** to the opposite position, and select the position that results in the most pleasing bass response.

If there is no sound from the surround speakers:

- Check all wires and connections between receiver/processor and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured, or touching each other.
- Review proper operation of your receiver/amplifier and its surround sound features.
- Make sure the movie or TV show you are watching is recorded in a surround sound mode. If it is not, check to see whether your receiver/processor has other surround modes you may use.
- In Dolby Digital or DTS modes, make sure your receiver/processor is configured so that the surround speakers are enabled. When five satellites are in use, remember to configure your receiver or processor for 6.1-channel operation, and when six satellites are in use, configure your receiver or processor for 7.1 channels.
- Review the operation of your DVD player and the jacket of your DVD to make sure that the DVD features the desired Dolby Digital or DTS mode, and that you have properly selected that mode using both the DVD player's menu and the DVD disc's menu.

SPECIFICATIONS

System

Frequency Response
27Hz – 30kHz (–6dB)

CST55

Maximum Recommended Amplifier Power
150 Watts*

Power Handling 50W continuous/300W peak

Frequency Response 55Hz – 30kHz (–6dB)

Nominal Impedance 8 Ohms

Sensitivity 90dB @ 1 watt/1 meter

Tweeter

3/4" (19mm) Titanium-laminate dome,
video-shielded

Woofers

Dual 5" (130mm) transducers with PolyPlas™
cones, neodymium magnets and HeatScape™
motor structure, video-shielded

Dimensions (H x W x D)

(including base and grille)

46" x 11-1/4" x 11-1/4" (1168mm x 286mm x 286mm)

Weight 17 lb (7.7kg)

CBS5

Maximum Recommended Amplifier Power
125 Watts*

Power Handling 40W continuous/300W peak

Frequency Response 60Hz – 30kHz (–6dB)

Nominal Impedance 8 Ohms

Sensitivity 88dB @ 1 watt/1 meter

Tweeter

3/4" (19mm) Titanium-laminate dome,
video-shielded

Woofers

5" (130mm) Transducer with PolyPlas™ cone,
neodymium magnet and HeatScape™ motor
structure, video-shielded

Dimensions (H x W x D)

(including base and grille)

14-5/16" x 6-1/8" x 4-9/16"

(363mm x 155mm x 116mm)

Weight 5 lb (2.3kg)

Dimensions (H x W x D)

(without base and with wall-mount bracket
and grille)

13-5/16" x 6-1/8" x 5-1/8"

(338mm x 155mm x 130mm)

Weight 4.5 lb (2kg)

CSC55

Maximum Recommended Amplifier Power
150 Watts*

Power Handling 50W continuous/300W peak

Frequency Response 55Hz – 30kHz (–6dB)

Nominal Impedance 8 Ohms

Sensitivity 90dB @ 1 watt/1 meter

Tweeter

3/4" (19mm) Titanium-laminate dome,
video-shielded

Woofers

Dual 5" (130mm) transducers with PolyPlas™
cones, neodymium magnets and HeatScape™
motor structure, video-shielded

Dimensions (H x W x D)

(including wall-mount bracket and grille)

6-1/4" x 26-1/4" x 4-1/4" (159mm x 667mm x 108mm)

Weight 10 lb (4.5kg)

CSS10

Amplifier Power 150 Watts RMS

Frequency Response 27Hz – Low-pass
crossover setting at signal source

Low-Frequency Driver

10" (250mm) Cone and HeatScape™
motor structure, video-shielded

Input LFE preamp level

Dimensions (H x W x D) (including feet)

18-1/4" x 13-1/4" x 16"

(464mm x 337mm x 406mm)

Weight 43 lb (19.5kg)

All features and specifications are subject to change
without notice.

Dolby and Pro Logic are registered trademarks 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.

CSS10 (230V only)

Declaration of Conformity

CE

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

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

EN 55013:2001+A1:2003
EN 55020:2002+A1:2003
EN 61000-3-2:2000
EN 61000-3-3:1995+A1:2001
EN 60065:2002


Laurent Rault
Harman Consumer Group International
Château du Loir, France 5/06

CSB5, CSC55, CST55

Declaration of Conformity

CE

We, Harman Consumer Group International
2, route de Tours
72500 Château 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
Château du Loir, France 5/06

JBL

PRO SOUND COMES HOME™

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Part No. 406-000-05331-E

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