

**JBL**

# ARC CinemaII simple setup guide

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**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 complete the enclosed profile card. 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


# read first! Important Safety Precautions!

**CAUTION**  
**RISK OF ELECTRIC SHOCK**  
**DO NOT OPEN**

CAUTION: To prevent electric shock, do not remove the grounding plug on the power cord, or use any plug or extension cord that does not have a grounding plug provided. Make certain that the AC outlet is properly grounded. Do not use an adapter plug with this product.

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 Instructions.** All the safety and operating instructions should be read before the product is operated.
- 2. Retain Instructions.** The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings.** All warnings on the product and in the operating instructions should be adhered to.
- 4. Follow Instructions.** All operating and use instructions should be followed.
- 5. Cleaning.** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6. Attachments.** Do not use attachments not recommended by the product manufacturer, as they may cause hazards.
- 7. Water and Moisture.** Do not use this product near water – for example, near a bathtub, wash bowl, kitchen sink or laundry tub; in a wet

basement; or near a swimming pool; and the like.

**8. Accessories.** Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

**9. A Product and Cart Combination Should Be Moved with Care.** Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.

**10. Ventilation.** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

**11. Power Sources.** 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.

**12. Grounding or Polarization.** This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

**13. Power-Cord Protection.** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the product.

**14. Nonuse Periods.** The power cord of the product should be unplugged from the outlet when left unused for long periods of time.

**15. Outdoor Antenna Grounding.** 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 1.

**16. Lightning.** For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

**17. Power Lines.** 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.

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

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

**20. Servicing.** Do not attempt to service this product your-

self, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**21. Damage Requiring Service.** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

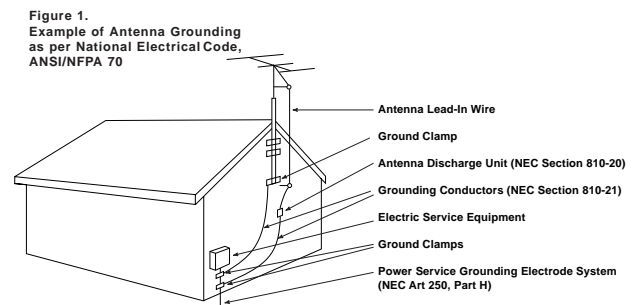
- The power-supply cord or the plug has been damaged; or
- Objects have fallen onto, or liquid has been spilled into, the product; or
- The product has been exposed to rain or water; or
- The product does not operate normally when following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation; or
- The product has been dropped or damaged in any way; or
- The product exhibits a distinct change in performance – this indicates a need for service.

**22. Replacement Parts.** 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.

**23. Safety Check.** 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.

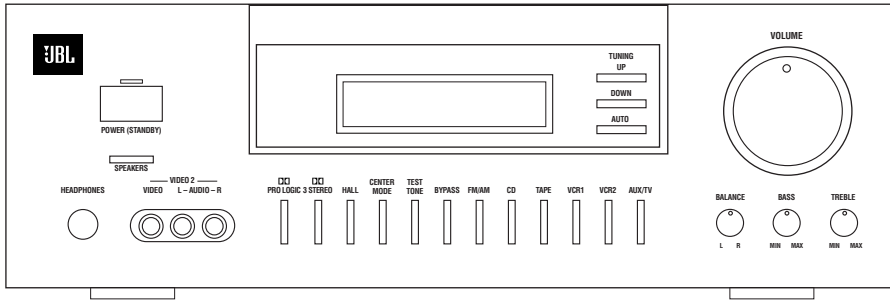
**24. Wall or Ceiling Mounting.** The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

**25. Heat.** The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

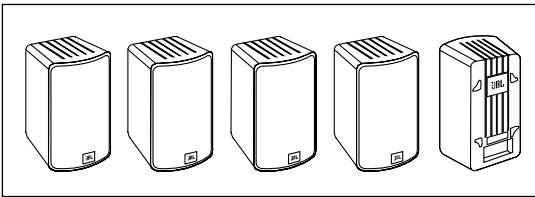


Part No. JBLULB 6/96

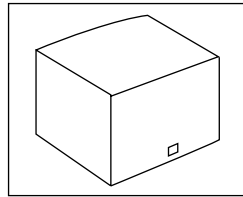
included with this system



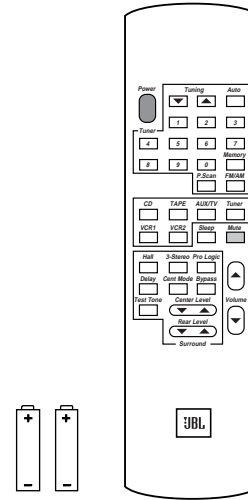
Dolby\* Pro Logic\* receiver.



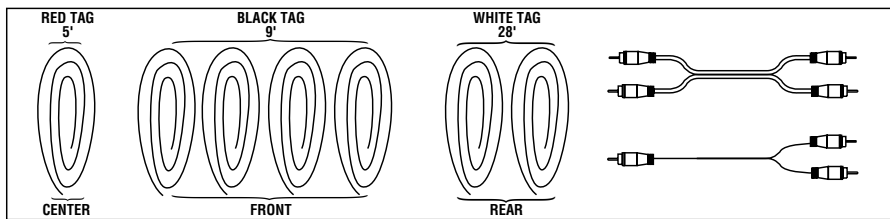
Front, center and surround speakers.



Powered subwoofer.



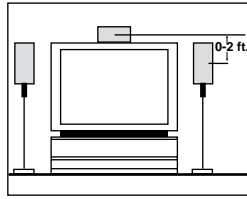
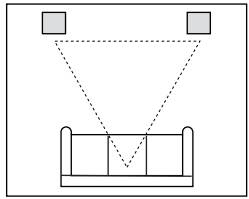
Remote control with batteries.



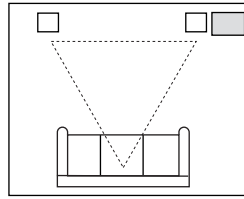
Speaker and audio cables.

# one. Speaker Placement

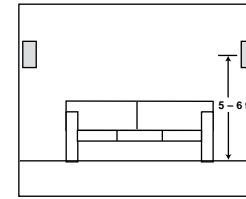
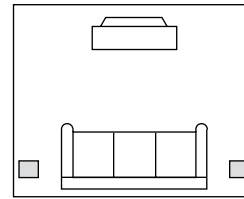
## Satellites



## Subwoofer

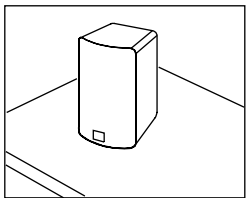


## Surround Speakers

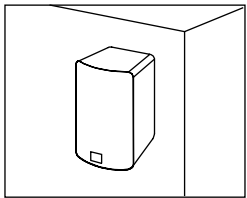


## Mounting Options

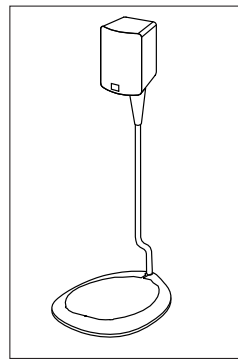
### Front



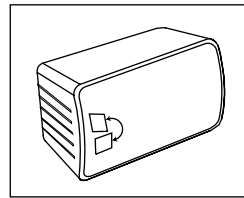
On shelves.



On the wall. No bracket; uses built-in keyhole.

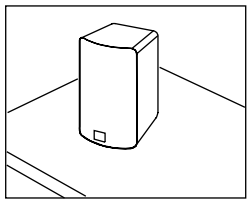


On optional stands.  
Part No. FS10/20.

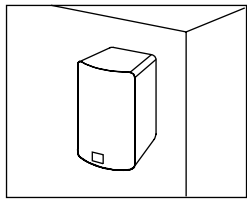


To rotate the logo when placing speakers horizontally, pull out gently and turn.

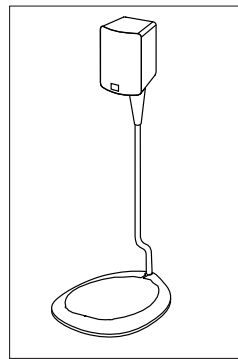
### Surrounds



On shelves.

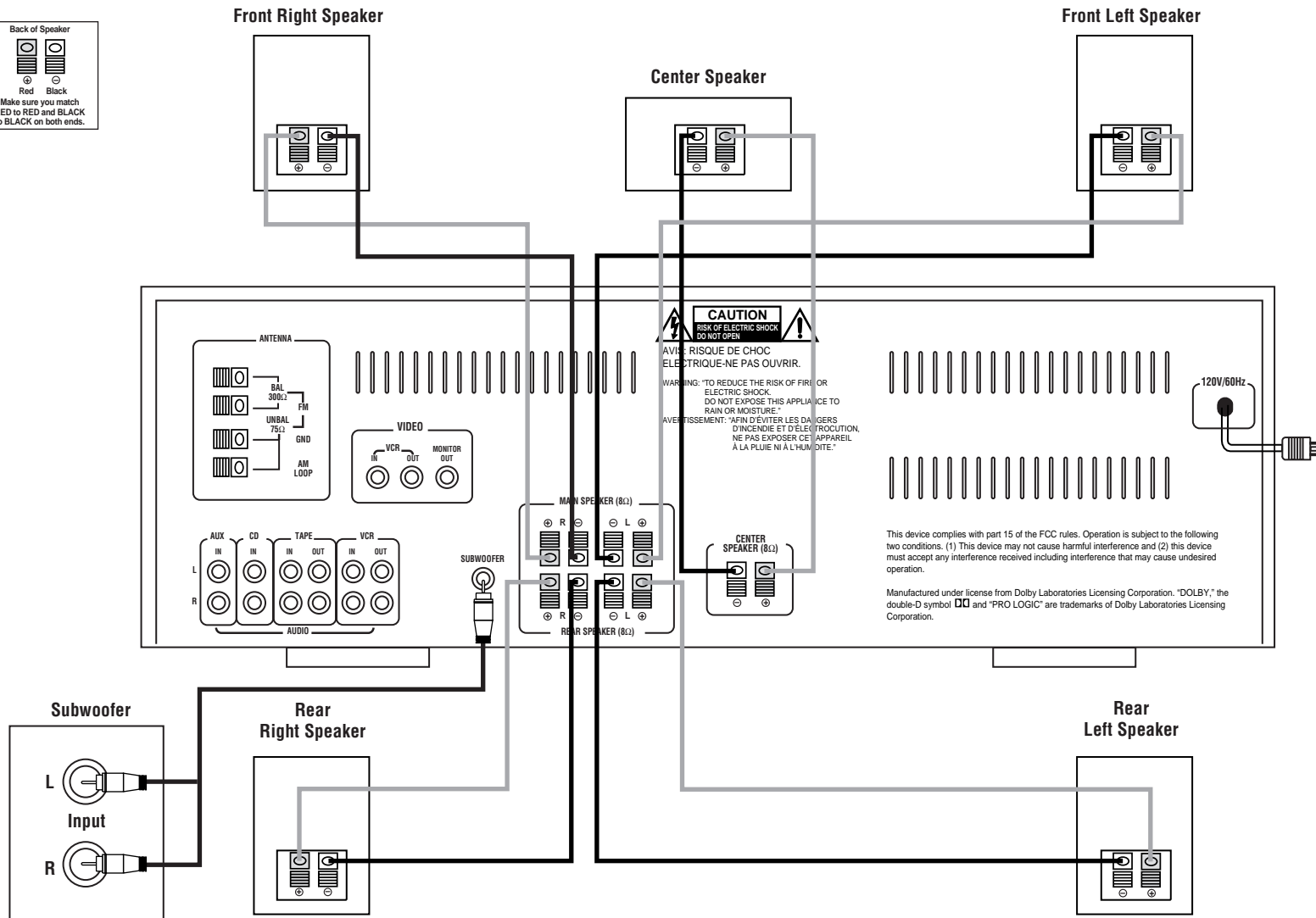
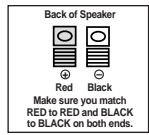


On the wall. No bracket; uses built-in keyhole.

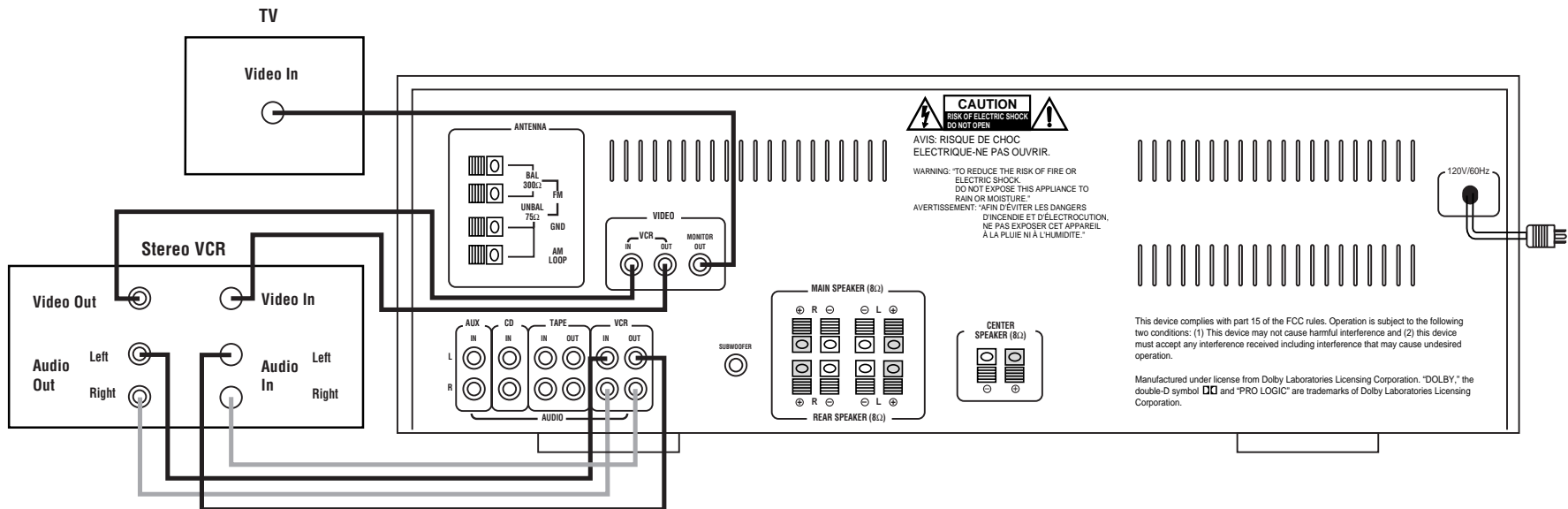
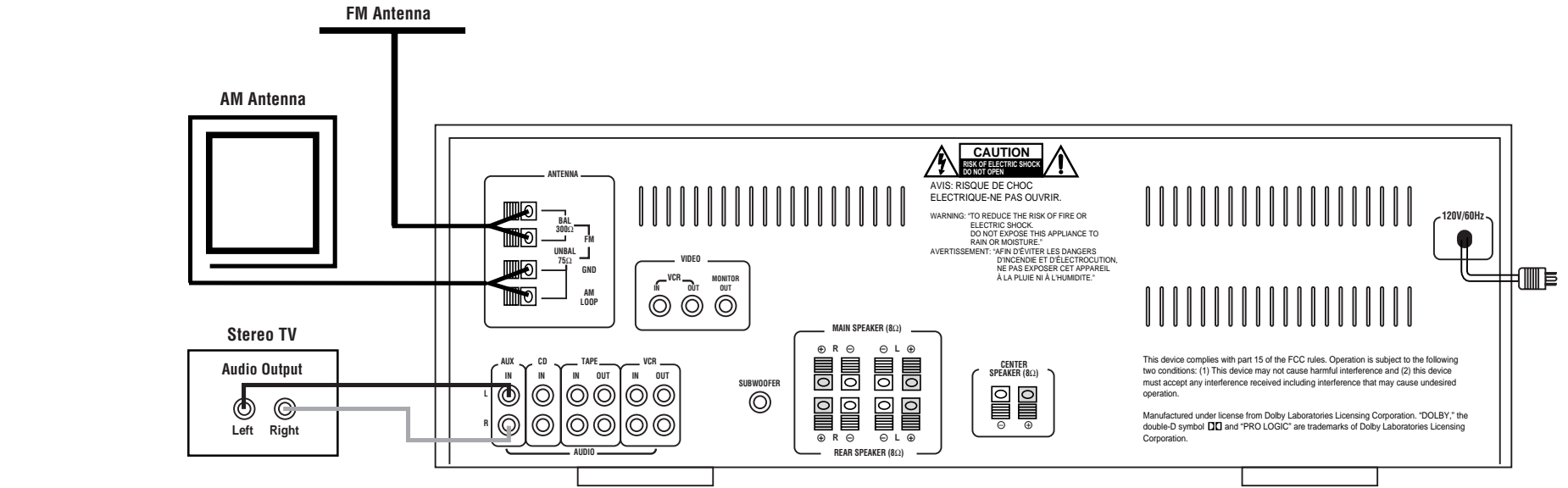


On optional stands.  
Part No. FS10/20.

# two. Speaker Connections

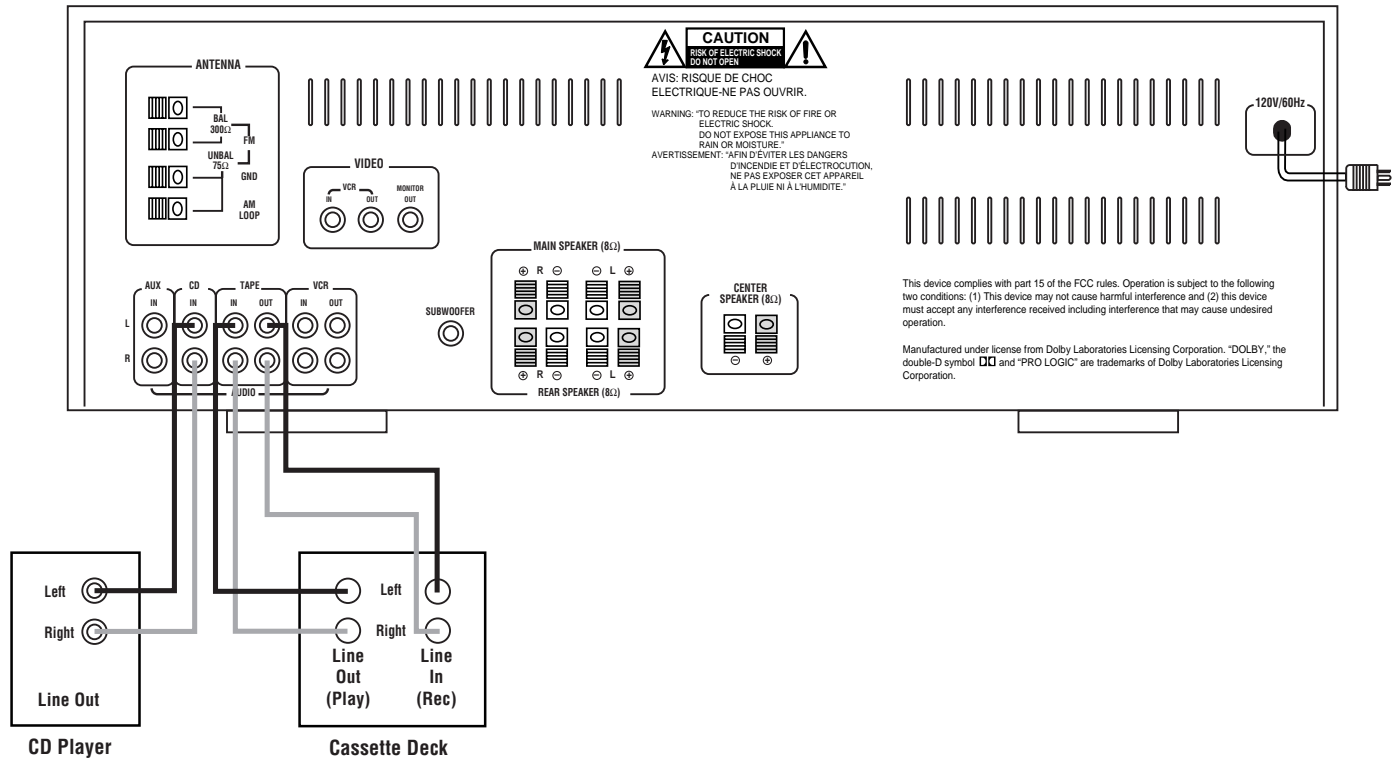


## Source Connections



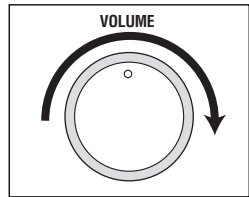
Notes: (1) Video recording is only possible from VCR2 to VCR1.

(2) Additional video sources such as DVD or laserdisc should be connected through the Video2 inputs located on the front panel.

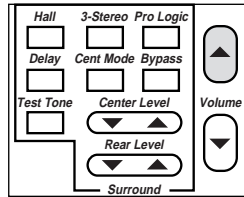


# three. Operation

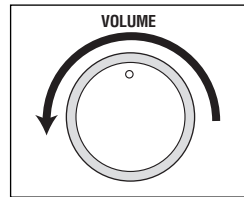
## Volume



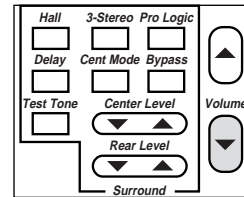
To raise volume: Turn control clockwise or



push ▲ on the remote.

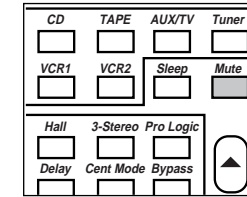


To lower volume: Turn volume control counterclockwise or



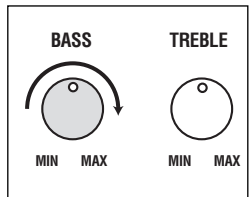
push ▼ on the remote.

## Mute

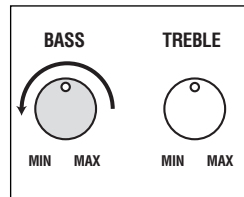


To lower volume completely: Push "Mute" on the remote. When "Mute" is pushed again, the volume will return to its original level.

## Bass

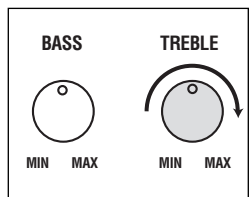


To raise bass level: Turn control clockwise.

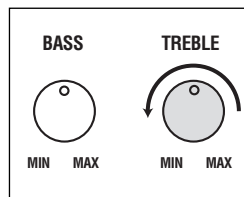


To lower bass level: Turn control counterclockwise.

## Treble



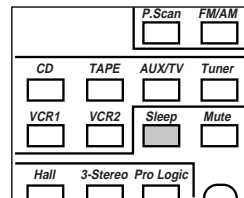
To raise treble level: Turn control clockwise.



To lower treble level: Turn control counterclockwise.

## Sleep

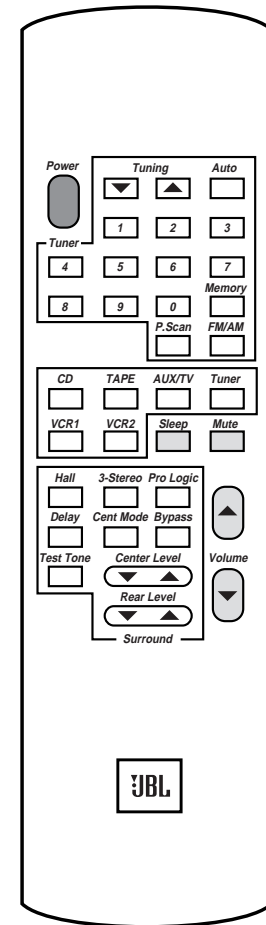
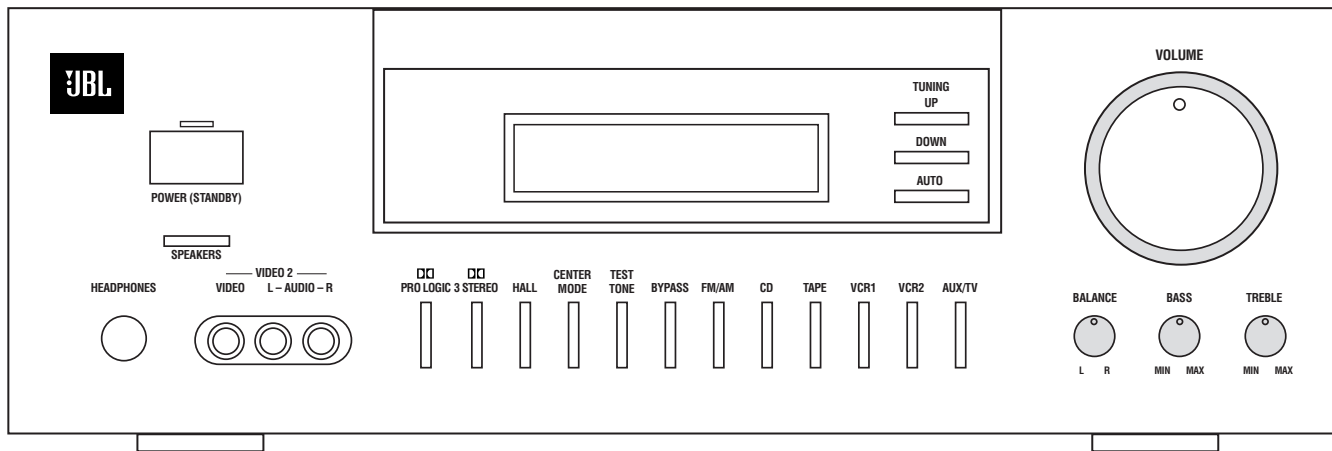
The sleep timer will shut off the receiver after the selected amount of time.



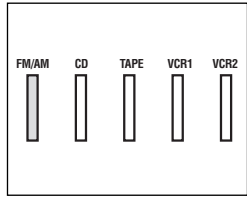
Push "Sleep" on the remote until the desired amount of time is displayed.

Note: The display will dim when the sleep mode is engaged.

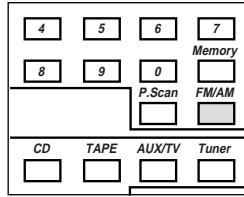




### To Play the Tuner:

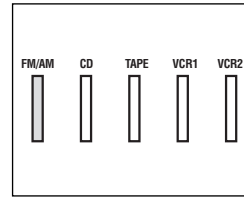


Push FM/AM button on the receiver

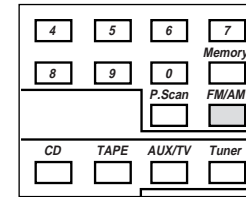


or the remote.

### To Switch Between FM/AM:

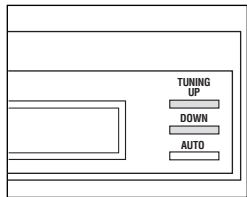


Push FM/AM button again on the receiver

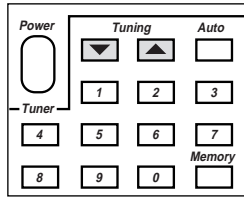


or the remote.

### To Tune to a Particular Station:

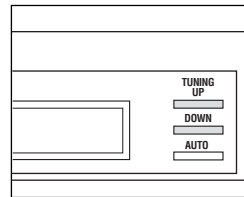


Push "Up" or "Down" on the receiver or

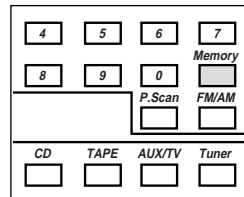


push ▲ or ▼ on the remote.

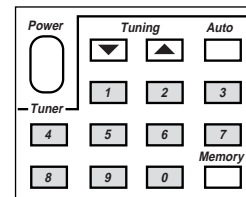
### To Program Up to 30 FM and AM Stations in Memory:



Tune to the desired station.

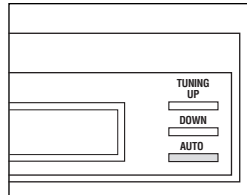


Push "Memory" on the remote.

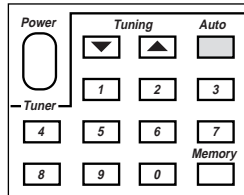


Allocate a preset location between 1 and 30 for this station. Push "0" before the number for presets 1-9.

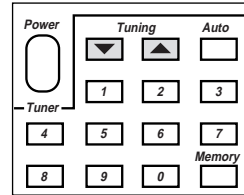
### To Have the Tuner Search for the Next Strong Station:



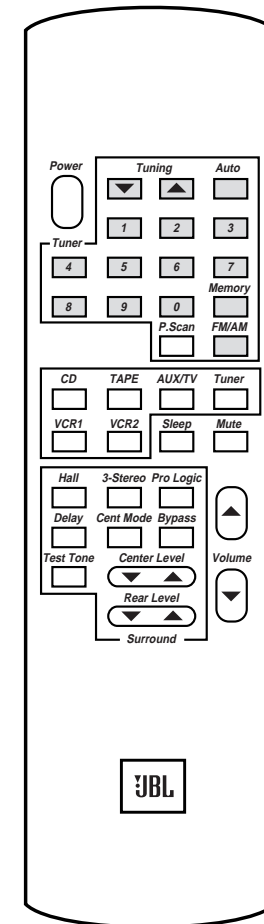
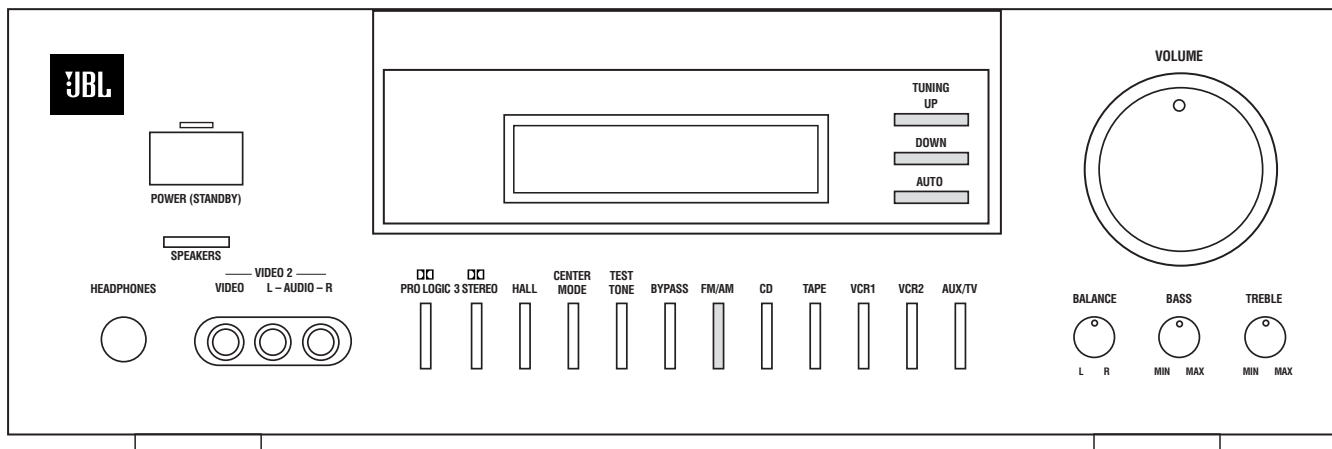
Push "Auto" on the receiver or



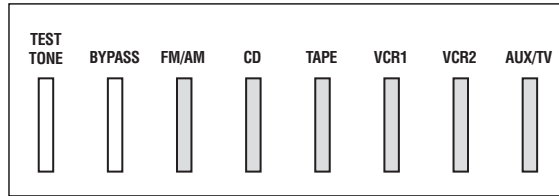
the remote.



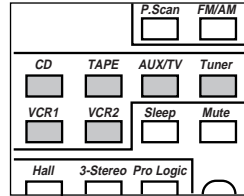
Push ▲ or ▼ to search for the next strong station.



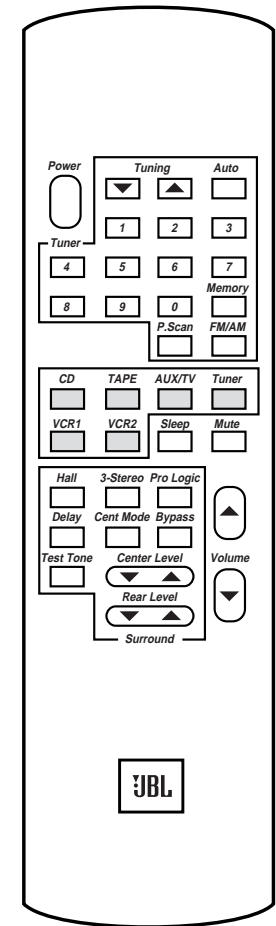
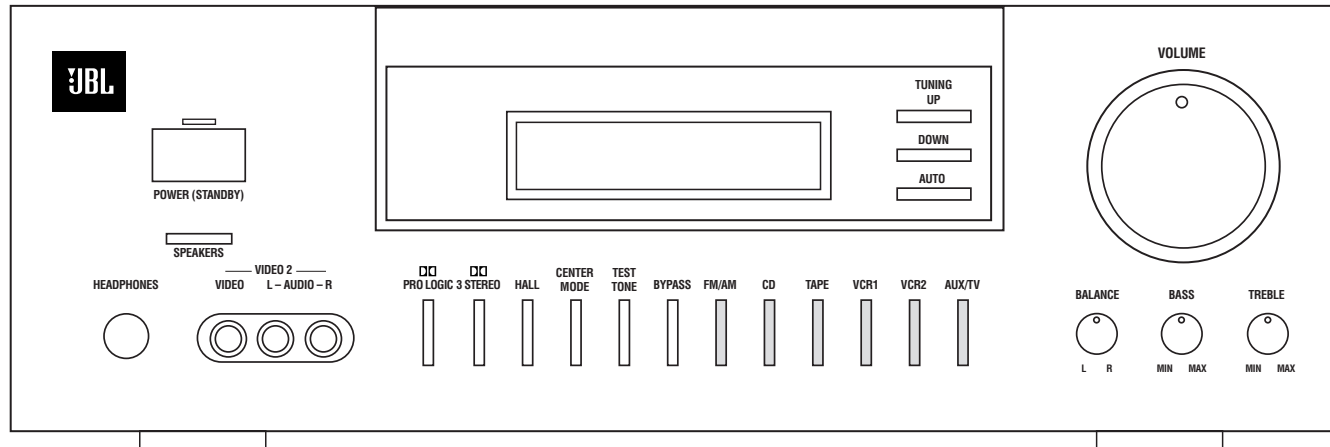
## To Switch Between Different Sources:



Push FM/AM, CD, Tape, VCR1, VCR2 or AUX on the receiver



or the remote.



# Surround-Mode Operation

## What is Dolby\* Pro Logic\*?

Dolby\* Pro Logic\* is an encode/decode process by which four channels of sound-track information are encoded into two channels for playback on VCRs, laser disc players and some TV broadcasts, and then decoded back into four

channels for playback through five loudspeakers. Remember that a Dolby Pro Logic system consists of three channels of information for front left, center and right speakers, and one channel of mono surround information. The surround

channel is played back through two speakers. Dolby Pro Logic helps to re-create all of the impact and excitement of a movie theater in your home.

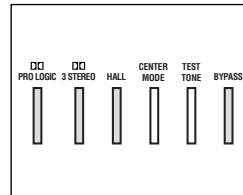
This system contains four surround modes.

1. Dolby Pro Logic – In this mode all five speakers are used.

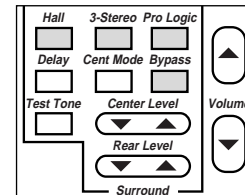
3. Hall – Use this mode to create a surround image from 2-channel recording.

2. Dolby 3 Stereo – In this mode the surround channels do not operate. This may be preferred when listening to a music source that was not recorded with surround channel information.

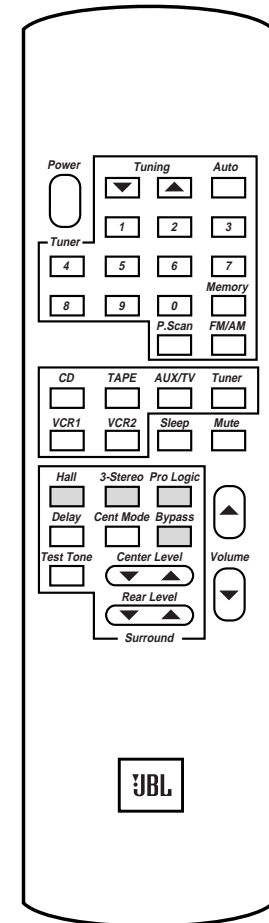
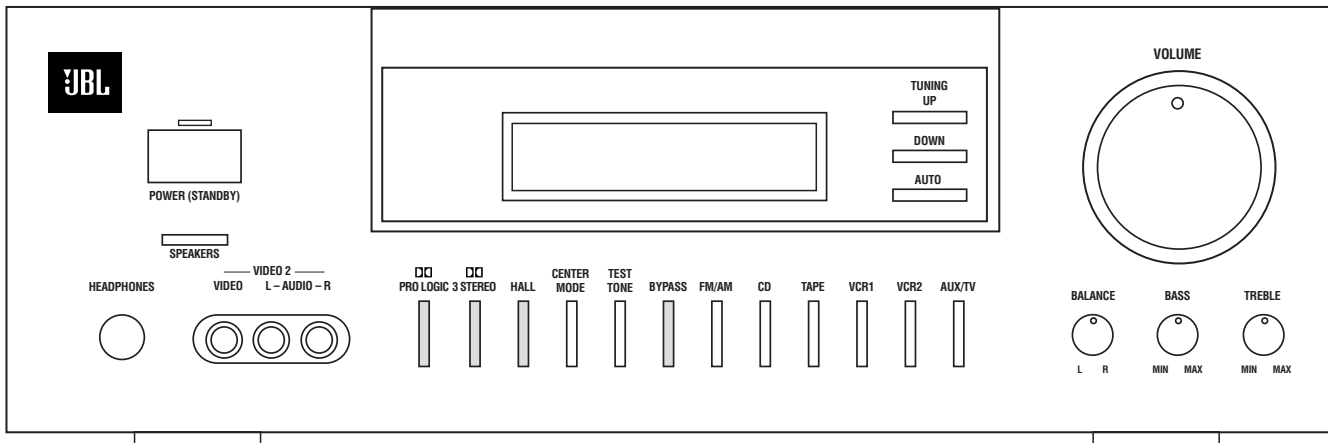
4. Bypass – In this mode the program is played back in a traditional stereo form.



To switch among the four surround modes: Push the desired "Surround Mode" on the receiver or

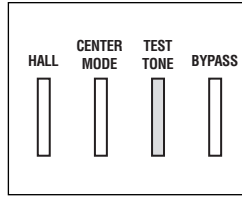


the remote.



## Test Tone

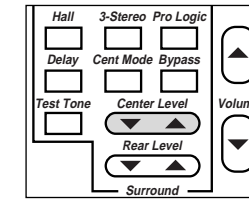
For proper Dolby Pro Logic operation, a test tone is used to calibrate the volume settings of the speakers. A noise will be heard cycling, in order, from the front left, center, right and both surround speakers.



Using the remote control, push "Test Tone." Then adjust the Center and Surround levels until the volume of all the speakers is the same during the test.  
*Note:* The test tone is used to calibrate the performance of the system. When listening to an actual recording, the

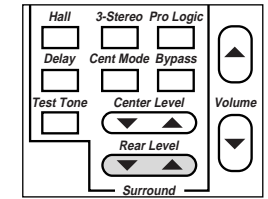
volume level of the surround channels is generally much lower than that of the front channels. In fact, when listening to a movie, virtually all of the dialogue and a substantial number of the effects are reproduced through the center channel.

## Center-Channel Volume



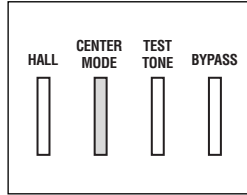
Push "Center Level" ▲ or ▼ until the volume of the center speaker is the same as that of the left and right speakers.

## Rear-Channel Volume

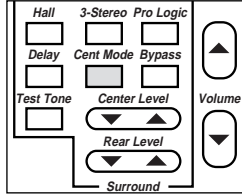


Push "Rear Level" ▲ or ▼ until the volume of the rear speaker is the same as that of the left and right speakers.

## Center Mode



Press "Center Mode" on the receiver



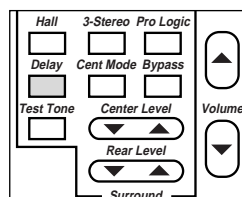
or the remote to switch between "Normal," "Wide" and "Phantom."

**Normal:** Select this mode if you use a small center speaker. The bass sound of the center channel is reproduced from the front left and right speakers because the small speaker cannot produce enough bass.  
**Wide:** Select this mode if you use a medium-to-large center speaker. The bass sound is reproduced from the center speaker.

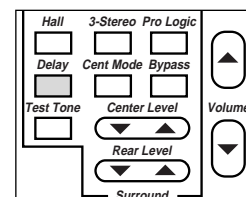
**Phantom:** Select this mode if you don't use a center speaker. The center speaker's sound is reproduced from the front left and right speakers.

## Delay Time

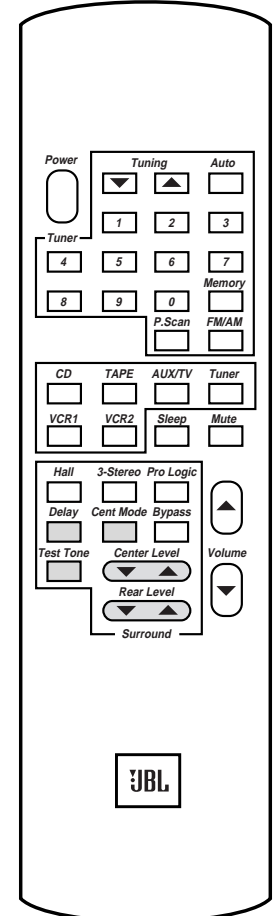
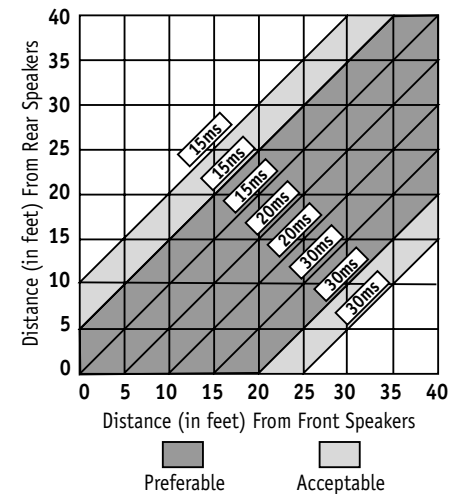
The delay control allows the user to set the surround delay between 15 and 30 milliseconds. The best setting will depend on the distance between the main listening area and the front speakers, as well as the distance between the main listening area and the rear speakers.



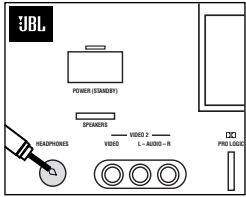
Push "Delay" on the remote until "Delay" appears in the display and the corresponding time is lit.



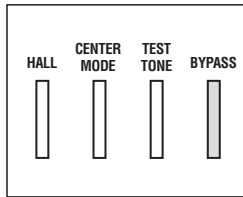
Push "Delay" on the remote to cycle through the delay times.



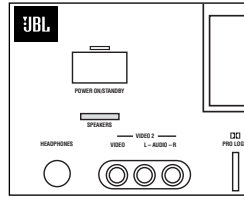
## Headphone Listening



Insert headphones into the headphone jack.



Push "Bypass" to listen to the headphones in stereo and to turn off the center and surround speakers.



Push "Speakers" switch to turn off the front speakers while listening to the headphones.

## Troubleshooting

**If there is no sound from any of the speakers, check the following:**

- Make sure the receiver is plugged into an active AC wall outlet.
- Push "Speakers" button on the receiver.
- Make sure there is a source – for example, a VCR or television – hooked up to the VCR or tape/aux input jacks on the receiver.
- Make sure that the program material is playing.
- Recheck the hookup connections.

**If most of the sound comes from the center-channel speaker, with little or no information from the surround channels, note the following:**

Although most of today's televisions are equipped with stereo audio output jacks, some stereo televisions have poor audio sections and are unable to provide a Dolby Pro Logic encoded signal. In the unlikely event that you experience this problem, connecting the audio outputs from your Hi-Fi VCR, laser disc player, DVD player or satellite receiver directly to one of the inputs on the receiver will provide a proper audio signal and allow you to enjoy true Dolby Pro Logic surround sound.

**If there is no sound from the surround speakers or it is very low, check the following:**

- Check all connections between amplifier and each of the speakers.
- Raise the surround volume from the remote control (see "Operation" section).
- Make sure the TV show or movie you are watching is recorded in Dolby Surround.
- Make sure Dolby Pro Logic is engaged.

**If there is no sound from the center speaker, check the following:**

- Make sure that the processor is in the Pro Logic, or 3 Stereo mode. If it is in Phantom or Stereo mode, the center speaker will not play.
- Check the connections between the subwoofer and the center speaker.

**If you have low bass output, check the following:**

- Experiment with placement of the subwoofer. Remember, place the subwoofer in a corner to get maximum bass output from the system.
- Adjust the level control on the rear of the subwoofer.

**If you are having trouble picking up radio stations, check the following:**

- Make sure the antenna is hooked up properly.
- Depending on your distance from the station's transmitter, you may need to install an FM antenna on the roof or in the attic.

## Specifications

### ARC CinemaII System

#### Amplifier

280 watts total system output;  
front channels:  
50 watts x 3 @ .1% THD;  
surround channels:  
25 watts x 2 @ .1% THD;  
subwoofer:  
80 watts x 1 @ 1% THD

#### System Frequency Response (-6dB)

45Hz - 20kHz

#### Input Impedance

20k ohms

#### Input Sensitivity

220mV

### Receiver

#### Dimensions (H x W x D)

4-5/8 x 10-1/4 x 9-3/4 inches  
117 x 260 x 248mm

#### Weight

5 lbs/2.3 kg

### Subwoofer

#### Dimensions (H x W x D)

15-3/4 x 8-1/2 x 20 inches  
400 x 216 x 508mm

#### Weight

40 lbs/18.2 kg

### Satellites

#### Dimensions (H x W x D)

6-1/2 x 3-3/4 x 4-1/4 inches  
165 x 95 x 108mm

#### Weight

1.5 lbs/.7 kg

### Surround Speakers

#### Dimensions (H x W x D)

6-1/2 x 3-3/4 x 4-1/4 inches  
165 x 95 x 108mm

#### Weight

1.5 lbs/.7 kg

### System Remote

#### Dimensions (H x W x D)

4-7/8 x 2-1/4 x 1/4 inches  
124 x 57 x 6mm

#### Weight

.25 lbs/.11 kg

Occasional refinements may be made to existing products without notice, but will always meet or exceed original specifications unless otherwise stated.



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