

**JBL**



**SVA1500**

**SVA1600**

**SVA1800**

**SVA2100**

**SVA Center**

**simple**

**set-up guide**

**thank you** for choosing JBL. For over 50 years, JBL has been involved in every aspect of musical 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 your needs and expectations.

JBL Consumer Products

# Introduction

JBL's SVA Series takes advantage of our latest technology to deliver incredibly clean, detailed sound. Incorporating JBL's Symmetrical Vertical Array™ and exclusive Bi-Radial® horn, these loudspeakers deliver sound that is distributed over a wide soundstage with pinpoint imaging. Because the horn should be directed at ear level in order

to maximize the imaging characteristics, JBL developed an exclusive cast-aluminum adjustable spike foot that can be adjusted while the speaker is in position. The Bi-Radial horn design – which greatly reduces room reverberation – along with video-shielding, allows greater placement flexibility within the room. Ultra-wide frequency response and

high power handling combine to give you clear, powerful sound that you get only from genuine JBL. The SVA loudspeakers are perfect for today's Dolby\* Digital recordings.

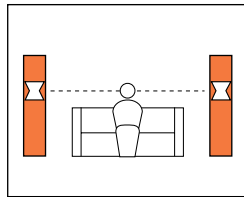
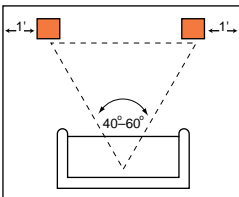
The SVA Center is designed to complement any of the SVA Series loudspeakers. It is the perfect addition for re-creating the cinematic experience in your home.

## one. 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

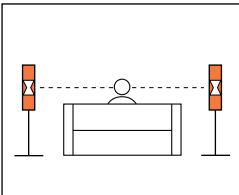
loudspeakers. Use these placement recommendations as a guide. Slight variations will not diminish your listening pleasure.

### SVA2100, SVA1800, SVA1600

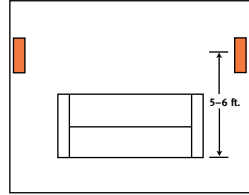
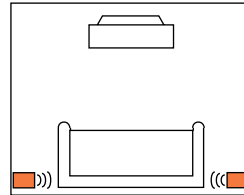


### SVA1500

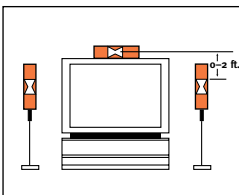
#### As Front Speakers



#### As Surround Speakers



### SVA Center



For optimum performance, use the SVA Center with the grille attached.

# two. Hookup

## Connection Tips

### Wire Length

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

### Recommended Speaker Cable Size

- 16 gauge
- 14 gauge
- 12 gauge or heavier

## Preparing the Speaker Cable

1. Determine the length of wire necessary to connect your amplifier to the speaker that is farthest away. Remember to allow for extra cable to be able to conceal it under baseboards, or run it around corners.

2. Keep both cable lengths the same in order to help maintain proper signal balance and imaging.

3. Separate about one inch of the two conductors that make up each cable. Then strip off about 3/8" of insulation.

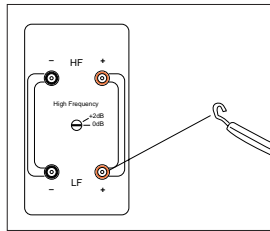
4. Twist each conductor's thin wires into a tightly bunched spiral.

5. Identify a difference between the two conductors. This may be done in various ways, depending upon the type and brand of cable you are using.

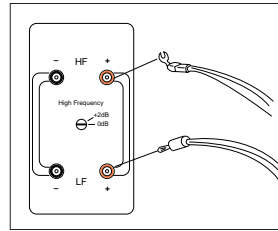
### Some of the More Common Differentiating Marks for Conductors Are:

- Different color wire
- A strand of thread in one conductor
- A colored line on one conductor's outer insulation
- Raised ribs on one conductor's outer insulation
- A printed (+) marking on one of the insulators

The terminals on the SVA Series loudspeakers can accept several types of speaker cable connections. Remember to connect the red (+) terminal on the receiver/amplifier to the red (+) terminal on the speaker and the black (-) terminal on the receiver/amplifier to the black (-) terminal on the speaker.



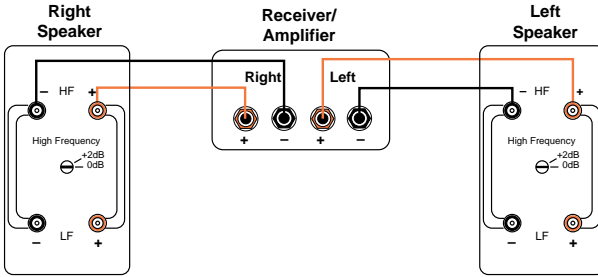
Bare wire connecting method.



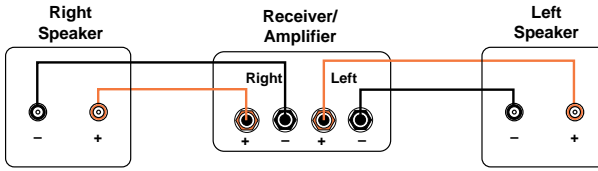
Banana/spade connecting method.

# Standard

SVA2100, SVA1800, SVA1600



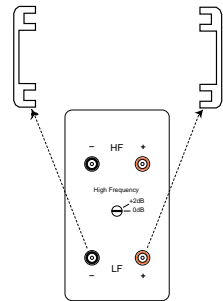
SVA1500, SVA Center



# Bi-Wiring

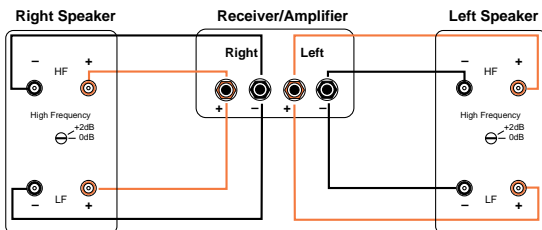
The SVA2100, SVA1800 and SVA1600 outer connection panel and internal dividing network are designed so that separate sets of speaker cable can be attached to the low-frequency transducer and midrange/high-frequency

transducer portions of the dividing network. This is called *bi-wiring*. Bi-wiring provides several sonic advantages and considerably more flexibility in power amplifier selection.

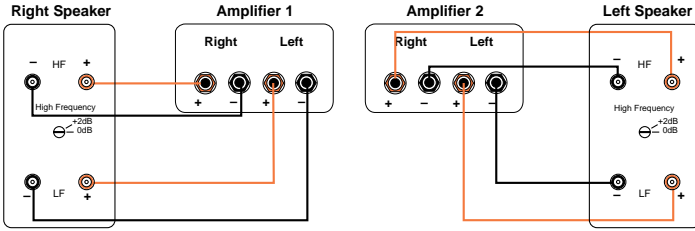


Remove strapping bars.

# Single-Stereo Amplifier

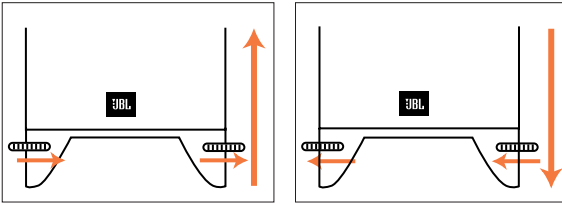


## Dual-Stereo Amplifier



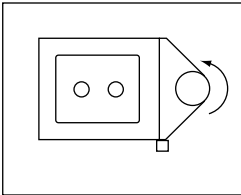
## three. Speaker Angle Adjustment

SVA2100, SVA1800, SVA1600

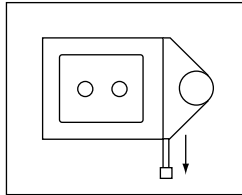


### SVA Center

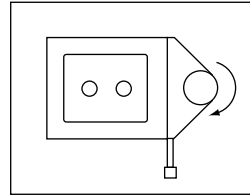
The SVA Center terminal cup has an adjustable foot to angle the speaker towards the listening position.



Loosen thumbscrew.



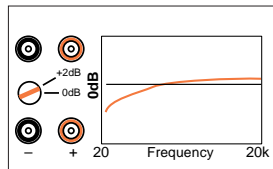
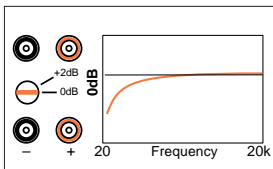
Slide rod down the desired amount.



Tighten thumbscrew.

## four. Response Contour Adjustment

SVA2100, SVA1800, SVA1600



# Troubleshooting

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

- Receiver/amplifier is on and a source is playing.
- Review proper operation of your receiver/amplifier.

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

- 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.

**If the system plays at low volumes but shuts off as volume is increased, check the following:**

- 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.
- If more than one pair of main speakers is being used, check the minimum impedance requirements of your receiver/amplifier.

**If there is low bass output, check the following:**

- Make sure the polarity (+ and -) of the left and right “Speaker Inputs” are connected properly.

**If you are *not* bi-wiring your system, and there is no output from either the low- or high-frequency drivers, check the following:**

- Make sure the shorting straps are properly attached to the terminals.
- Check all connections between processor/amplifier and each of the speakers.

**If you are bi-wiring your system, and there is no output from either the low- or high-frequency drivers, check the following:**

- Make sure the amplifier is hooked up to both the low *and* high terminals on each speaker.
- Check all connections between processor/amplifier and each of the speakers.

# Specifications

## SVA2100

### Frequency Response

40Hz – 18kHz ( $\pm 2$ dB)

30Hz – 20kHz ( $-6$ dB)

### Sensitivity

93dB @ 2.83 volts/1 meter

### Recommended Maximum

#### Amplifier Power\*\*

300 watts

### Impedance

8 ohms nominal

### Crossover Frequency

1200Hz

### Dimensions (HxWxD)

43 x 14-1/2 x 20-1/4 inches

1092 x 368 x 514mm

### Weight

95 lbs/43 kg

## SVA1800

### Frequency Response

50Hz – 18kHz ( $\pm 2$ dB)

35Hz – 20kHz ( $-6$ dB)

### Sensitivity

92dB @ 2.83 volts/1 meter

### Recommended Maximum

#### Amplifier Power\*\*

250 watts

### Impedance

8 ohms nominal

### Crossover Frequency

1600Hz

### Dimensions (HxWxD)

38 x 12-1/2 x 16-1/4 inches

965 x 318 x 413mm

### Weight

75 lbs/34 kg

## SVA1600

### Frequency Response

50Hz – 18kHz ( $\pm 2$ dB)

38Hz – 18kHz ( $-6$ dB)

### Sensitivity

89dB @ 2.83 volts/1 meter

### Recommended Maximum

#### Amplifier Power\*\*

200 watts

### Impedance

8 ohms nominal

### Crossover Frequency

1750Hz

### Dimensions (HxWxD)

35-3/4 x 11 x 13-1/2 inches

908 x 279 x 343mm

### Weight

60 lbs/27 kg

## SVA1500

### Frequency Response

80Hz – 18kHz ( $\pm 2$ dB)

45Hz – 20kHz ( $-6$ dB)

### Sensitivity

88dB @ 2.83 volts/1 meter

### Recommended Maximum

#### Amplifier Power\*\*

150 watts

### Impedance

8 ohms nominal

### Crossover Frequency

2500Hz

### Dimensions (HxWxD)

20 x 6-13/16 x 11-1/8 inches

508 x 173 x 283mm

### Weight

25 lbs/11.4 kg

## SVA Center

### Frequency Response

80Hz – 18kHz ( $\pm 2$ dB)

45Hz – 20kHz ( $-6$ dB)

### Sensitivity

88dB @ 2.83 volts/1 meter

### Recommended Maximum

#### Amplifier Power\*\*

150 watts

### Impedance

8 ohms nominal

### Crossover Frequency

2500Hz

### Dimensions (HxWxD)

6-13/16 x 20 x 11-1/8 inches

173 x 508 x 283mm

### Weight

25 lbs/11.4 kg

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

\*\*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.



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Declaration of Conformity



We, JBL Europe A/S  
Kongensvej 154B  
DK-3460 Birkerød  
DENMARK

declare in own responsibility, that the loudspeakers described in this owner's manual are in compliance with technical standards:  
EN 50 081-1/1992  
EN 50 082-1/3.1995

  
Steen Michaelsen  
JBL Europe A/S  
Birkerød, DENMARK 1/97