

## OWNER'S MANUAL

THANK YOU VERY MUCH FOR PURCHASING THIS BMB SPEAKERS SYSTEM. BEFORE USE, PLEASE READ FOLLOWING INSTRUCTIONS THROUGH CAREFULLY AND FAMILIARIZE YOURSELF WITH THE OPERATION OF THE SYSTEM.

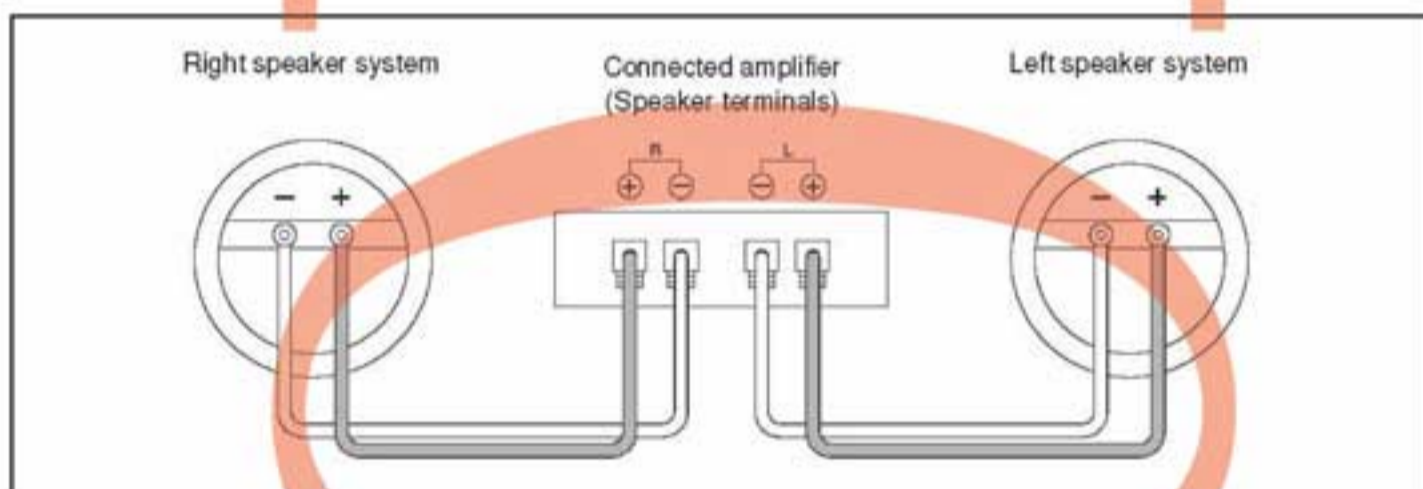
### BEFORE USE

#### Operating Precautions

- The maximum input power of these speakers is 500 W (at peak). Higher levels of input power may cause damage to the speaker system and so take every precaution to keep the power down to the specification.
- Even if an amplifier with a maximum output power of less than 500 W is employed, do not use the speakers with the volume turned up too high or the sound distorted. This may damage the speakers.
- Make sure that the amplifier's power switch is at the OFF position when connecting the speakers to the amplifier.
- Make sure that the amplifier's volume control is turned down to its lowest setting when the amplifier's power switch is set to the ON position.

### CONNECTIONS

- Make sure that you set the power switch on the amplifier to the OFF position when connecting the speakers to the amplifier.
- Align the (-) and (+) polarities of the speakers with the (-) and (+) polarities of the left (L) and right (R) channels of amplifier, and connect the speakers to the speaker terminals on the amplifier. (Please refer to the below drawing.)



\* If the polarities of the left and right speakers are not aligned properly, the quality of the reproduced sound, the ambience and the feeling of direction will all be markedly impaired.

\* When making the connections, take every precaution to prevent the speaker cords' central cores from being shorted.

### INSTALLATION

#### Installing the Speakers

- Avoid installing the speakers in a location exposed to direct sunlight and high levels of humidity. Avoid also locations in the vicinity of stoves and other sources of heat.
- With a speaker system, the sound which is heard varies greatly according to the installation location. Bear in mind the following points in order to derive the most enjoyment from music.
  - a) Install the speaker at the upper position than your ears level when you listen to the sound under normal listening conditions.
  - b) The best distance between the speakers is approx. 2 to 5 m.
  - c) The bass sounds fuller if the speakers are installed on a solid and stable stand or shelf, or if they are placed against a wall. The bass sound will lose its impact if objects which do not reflect the bass well enough are placed in front of the speakers.
- If you plan to hang your speakers from the ceiling, contact a professional installer.

#### **Caution:**

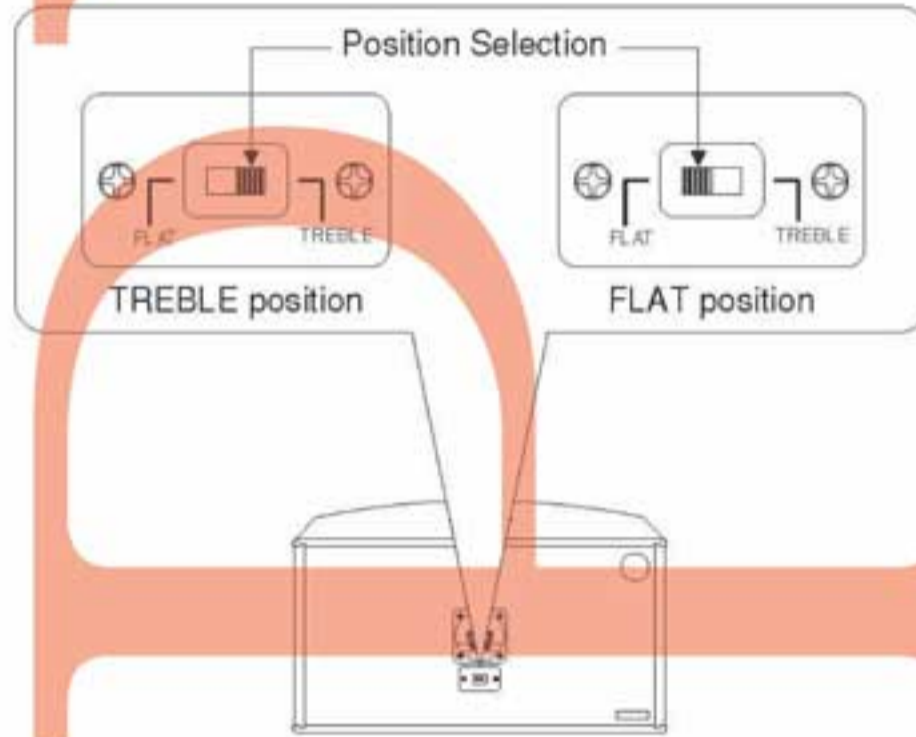
If you want to suspend the CSV-450 from the ceiling, use adequate mounting hardware that can bear the load. In addition, be sure to secure the mounting hardware onto a place of high-tensile strength using screws appropriate to the ceiling materials.

## MAINTENANCE OF CABINET

When the cabinets are dirty, clean off the dirt with a soft cloth. If the dirt is engrained, moisten a soft cloth in cold or lukewarm water, wring it out, and then wipe off the dirt. **Never use thinners or alcohol** since these substances can impair the finish of the cabinet. Also, avoid using insecticide and other sprays near the speakers.

## TONE CONTROL

- This speaker system offers a slide switch that gives you two tone choices: TREBLE and FLAT. The TREBLE position is intended for listening in a large room; the FLAT position is suitable for a small room. This switch is located on the rear face of each speaker.



## Making Allowable Connections between Speakers and Your Amplifier (Ex. 4 Speakers)

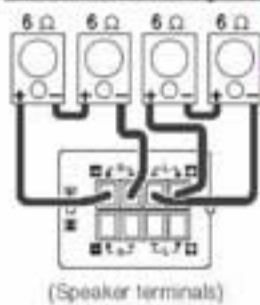
- Configure and wire the speakers so that the combined impedance falls within 6 to 32  $\Omega$ .

**Note:**

The specification allows the combined impedance ranging 4 to 32  $\Omega$ , however, 4  $\Omega$  configuration is not recommended; avoid it whenever possible.

### Allowable Examples

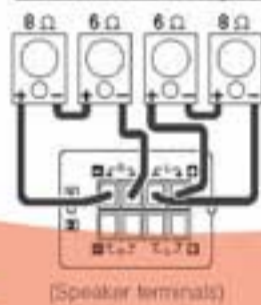
**Allowable Example 1**



(Speaker terminals)

OK: Combined impedance is 12  $\Omega$

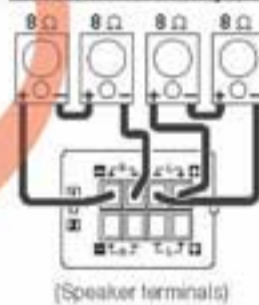
**Allowable Example 2**



(Speaker terminals)

OK: Combined impedance is 14  $\Omega$

**Allowable Example 3**

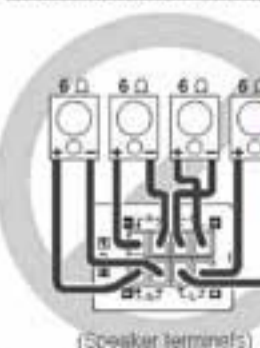


(Speaker terminals)

OK: Combined impedance is 16  $\Omega$

### Not-allowable Examples

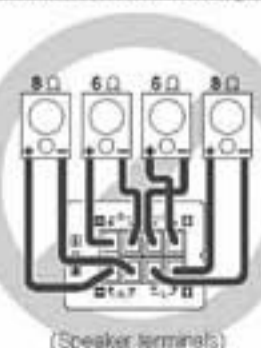
**Not-allowable Example 1**



(Speaker terminals)

NG: Combined impedance is 3  $\Omega$

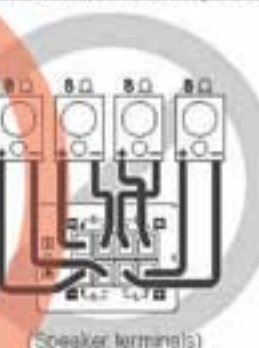
**Not-allowable Example 2**



(Speaker terminals)

NG: Combined impedance is 3.4  $\Omega$

**Not-allowable Example 3**



(Speaker terminals)

NG: Combined impedance is 4  $\Omega$

## SPECIFICATIONS

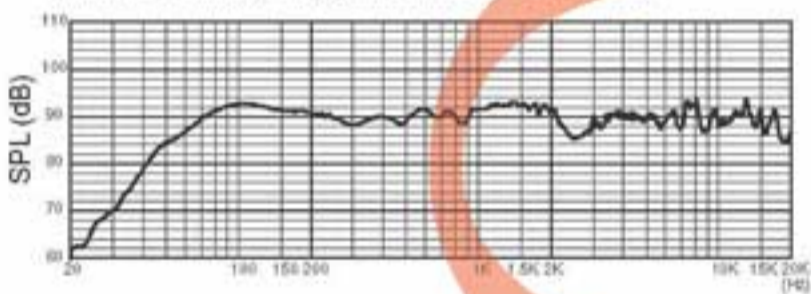
Type:	2-WAY 3 SPEAKER BASS-REFLEX SYSTEM
Speaker units:	25 cm Cone Type Woofer x 1 8 cm Cone Type Tweeter x 2 (with multi-cellular horn)
Maximum input power:	500 W
Rated input power:	250 W
Sound pressure level:	91 dB/W/m
Frequency response:	40 - 20 kHz
Impedance:	8 $\Omega$
Dimensions:	558 (W) x 292 (H) x 297 (D) mm
Mass:	11.5 kg

## ACCESSORIES

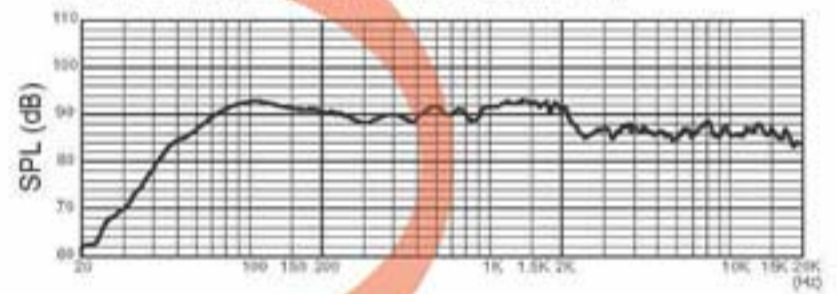
Owner's manual:	1 pc
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## FREQUENCY RESPONSE

TREBLE Position (Straight ahead from the tweeter)

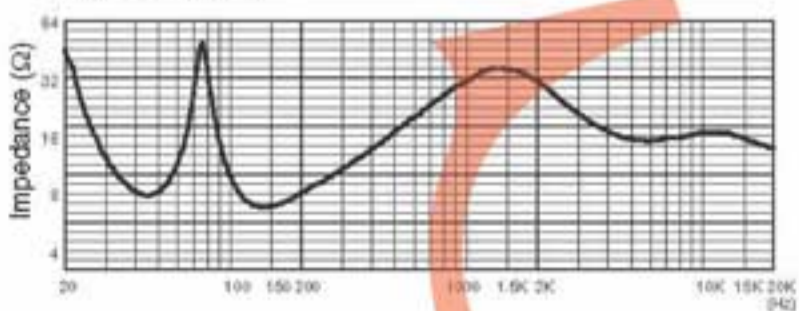


FLAT Position (Straight ahead from the tweeter)

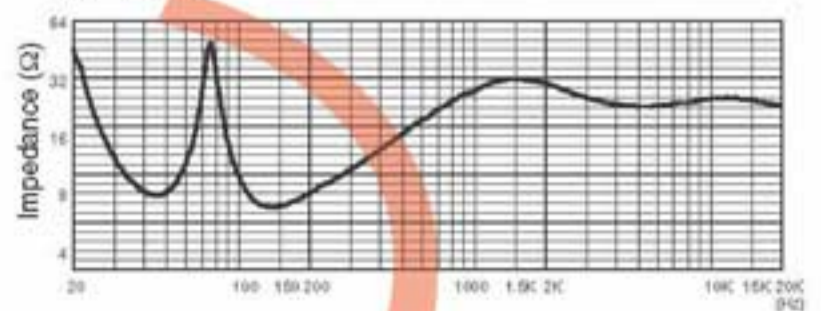


## IMPEDANCE CURVE

TREBLE Position



FLAT Position



OUTLINE DIMENSIONAL DRAWING

