

# HPM-1100



## IMPORTANT NOTICE:

The serial number for this equipment is located on the rear.

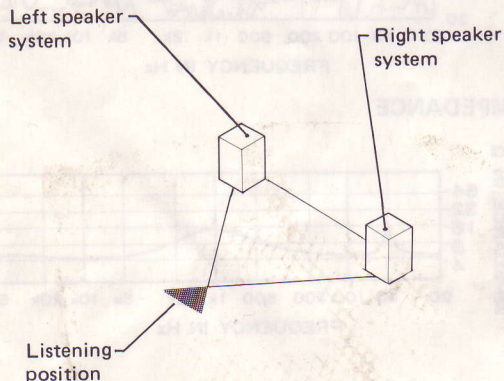
Please write this serial number on your enclosed warranty card and keep in a secure area. This is for your security.

## BEFORE USE

- Please read this operating guide through before using your speaker system so you will know how to make the most of its performance. After you have finished reading the operating guide, store the leaflet in a safe place. You will then know where it is, should you wish to refer to it if something is unclear while the speaker system is being used.
- The nominal impedance of this speaker system is 6.3 ohms. Connect the speakers to a stereo amplifier with a load impedance ranging from 4 to 16 ohms (a model with "4 – 16Ω" displayed on the speaker output terminals).
- The maximum input power of these speakers is 250 watts. The speakers may be damaged or strange sounds may be heard through them if signals with a strength exceeding the maximum input power are applied.
- Remember to handle the speaker system carefully since it is quite heavy.

## INSTALLATION

- The normal listening position is at the apex of an imaginary equilateral triangle with the speaker system forming the base line. Alternatively, you can sit and listen just beyond the apex.



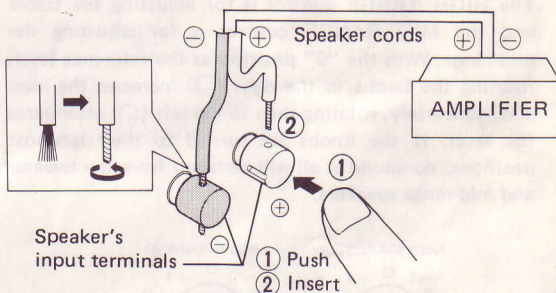
- The sound quality may change depending on the objects surrounding the speaker system, the installation locations, and the listening room itself. The bass, for instance, will sound different when the speaker system is placed up against a wall and when there is a clearance between the speaker system and the wall. See what the sound is like in a number of positions and choose the location which offers a sound quality to your liking.

## INSTALLATION PRECAUTIONS

- Do not install this speaker system near a stove or other heating appliance, and do not put it in a place exposed to the sun. Locations like these may cause the cabinet to change color and the speaker system to break down.
- Remember that this speaker system is quite heavy, so it is dangerous to install it in a high place like on a wall or pillar or in other unstable locations.

## CONNECTIONS

1. Set the amplifier's power switch to OFF.
2. Connect input terminal (+) of the speaker system to output terminal (+) of amplifier, and input terminal (–) to output terminal (–).



Depress the input terminal knob, insert the tip of the cord into the hole and then release the knob so that it springs back into position.

### NOTES:

- Make sure that the speaker cords are connected to the terminals securely. Insecure connections may cause not only sound to be interrupted and noise to be generated but also the cords to be shorted and the amplifier to break down.
- When listening to a stereo performance with the speaker system connected to a stereo amplifier, you will find that the bass is insufficient, the sound is not spread out and there is no stereo effect if the cords of one of the speaker system have been plugged into the wrong polarity terminals.

### Caution:

Bear in mind that the cone of these speakers may be deformed by heat if the speakers are installed in direct sunlight or in the vicinity of a heater for a prolonged period of time.

## DETACHING AND REPLACING THE FRONT GRILLE

The front grille of this speaker system is removable. Proceed as follows:

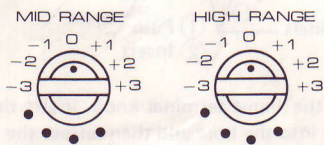
1. Use both hands to hold the bottom part of the grille, and pull it gently towards you. You will then be able to free the bottom part of the grille.
2. Similarly, take hold of the top part of the grille, and pull it towards you; the whole grille will then be detached from the speaker system.
3. To replace the grille, align the projections in each of the grille's corners with the openings in the speaker, and push each of the corners into place.

## USING THE LEVEL CONTROLS

This speaker system is equipped with mid-range and treble level controls which you can adjust to produce the desired sound in accordance with the position of the speaker system or the acoustics of your listening room.

The level controls can be found at the front of the speaker cabinet.

1. Detach the grille.
2. Set the tone controls on the stereo amplifier to the flat response position (FLAT or 0 position).
3. Play a record or a tape whose sound you are familiar with and, at the same time, rotate the level control knobs to adjust the sound quality to your preference. The HIGH RANGE control is for adjusting the treble and the MID RANGE control is for adjusting the mid-range. With the "0" position as the reference level, rotating the knobs to the right (↻) increases the level and, conversely, rotating them to the left (↺) attenuates the level. If the knobs are turned to their leftmost positions, no sound at all will be heard from the tweeter and mid-range speakers.



## CABINET MAINTENANCE

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the cabinet is very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and then wipe again with a dry cloth.
- Never use thinners, benzine, insecticide sprays and other chemicals on or near the cabinets, since these will corrode the surfaces.

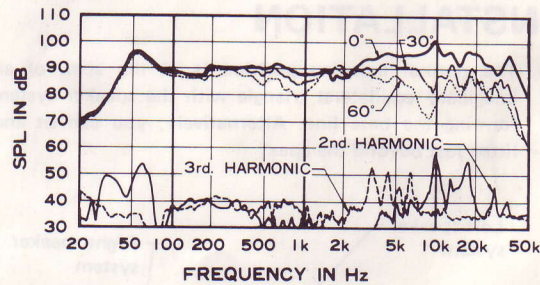
## SPECIFICATIONS

Enclosure . . . . .	Floor style, Bass-reflex type
System . . . . .	4-speaker, 4-way system
Loudspeakers:	
Woofer . . . . .	40cm (15-3/4in) cone type, PG cone
Mid-range . . . . .	12cm (4-3/4in) cone type, PG cone
Tweeter . . . . .	4.5cm (1-3/4in) cone type, PG cone
Super tweeter . . . . .	Horn loaded high polymer type
Nominal Impedance . . . . .	6.3ohms
Frequency Range . . . . .	25 to 50,000Hz
Sensitivity . . . . .	92.5dB/W at 1m distance
Maximum Input Power . . . . .	250W
Rated Input Power . . . . .	125W
Crossover Frequency . . . . .	850Hz, 2,000Hz, 16,000Hz
External Dimensions . . . . .	500(W) x 910(H) x 358(D)mm
	19-11/16(W) x 35-27/32(H) x 14-3/32(D)in
Weight . . . . .	31.8kg/70lb 1oz

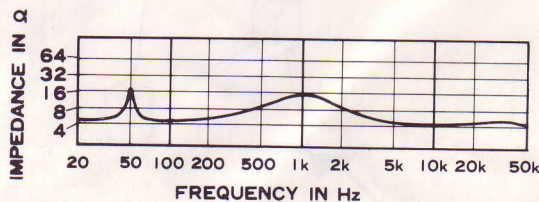
**NOTE:**

*Specifications and design subject to possible modification without notice, due to improvements.*

## FREQUENCY RESPONSE & HARMONIC DISTORTION



## IMPEDANCE



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