

SOLIDTM



HOME CINEMA SERIES

User Guide

INTRODUCTION

HCM 1 from Solid is designed specifically for Home Cinema installations. It is magnetically shielded so it can be placed close to TVs or computer monitors without the danger of picture distortion that may be caused by conventional speakers.

The versatile **HCM 1** may be used as a center (dialogue) loudspeaker, mounted horizontally and positioned directly above or below the screen. Alternatively, it may be mounted vertically as a front or rear satellite speaker. The **HCM 1** also gives excellent performance with conventional hi-fi systems, and its magnetic shielding makes it ideal for use with computer sound cards and multimedia applications.

Advanced technology from Solid



HCM 1 features Solid's Acoustic Voice Matching (AVM), which ensures precise sonic integration with other members of the AVM family of speakers, including the compact **Solid HCM 2** monitor and the **Solid PowerBass** active subwoofer system.

HCM 1 features a specially designed high quality bass/midrange driver with a reinforced polypropylene cone and low-hysteresis roll surround. The tweeter has a critically damped polyester dome to ensure good definition and imaging.

HCM 1 achieves phenomenal sound quality from such a physically small unit through its high sensitivity and 150 watt power handling capability. Its bass reflex loading ensures the free-field response is maintained clean down to 70Hz. The speaker is protected against accidental overload by a thermal protection device and is fitted with gold plated terminals to ensure good long term contact reliability.

Check the contents of each Solid HCM 1 carton

Each **HCM 1** carton contains:

- A single **HCM 1** loudspeaker
- A single fitted stand with an additional shorter stem (to be found in the expanded polystyrene packing)

- One large Allen key for tightening stem to cabinet. One small Allen key for assembling stem to base. These are affixed to the base of the **HCM 1**

If anything is missing, please contact your dealer.

The packaging protects **HCM 1** from damage in transit and should be retained. If you need to transport the speakers at any time we recommend you re-use the original packaging.

Position the HCM 1 for best results

HCM 1 can be used in front, center and rear/side positions in a home cinema system (figure 1), or in a conventional stereo system.

When used at front left and right in a home cinema system, the **HCM 1** should be mounted at the same height as the screen. When used as a center speaker, mount the **HCM 1** directly above or below the screen, make sure the sound will not be obscured by furniture.

1. For best results, we recommend you stand the **HCM 1** on a shelf or attach it to a wall.

With reinforcement from the rear wall, the **HCM 1** produces clear, clean sound right down to 50Hz. Try to keep the **HCM 1** away from corners as this excites room resonances and can upset the natural balance of the speaker.

2. When it is used as a front satellite or central speaker, mount the **HCM 1** with the tweeter pointing towards the listening area.
3. Used as a rear satellite speaker, try pointing the **HCM 1** away from the listeners to create a more diffuse sound field.

INSTALLATION

HCM 1 is supplied with an adaptable stand with long and short stems, allowing great flexibility in mounting (figures 2 & 3). Choose the configuration that keeps the speaker closest to the wall, yet still allows you to orient the speaker as you require.

Standing the HCM 1 on a horizontal surface

The rubber feet on the stand base prevent scratching of delicate surfaces and isolate unwanted vibration. Using the longer stem with the angled end pointing to the front of the stand (as supplied) allows the cabinet to be oriented either vertically or horizontally. Slots in the rear make alignment easier.

For horizontal orientation, a lower profile is possible by substituting the shorter stem.

Never force the ball and socket joint without first loosening the three screws as damage may result. Only tighten the screws when the cabinet is correctly positioned.

Changing the stem

When changing stems, use the following procedure:

1. Remove the three screws from the ball and socket joint using the larger Allen key provided and detach the cabinet from the stem (figure 4)
2. Using the smaller Allen key, loosen the grub screw at the rear of the base sufficiently to clear the stem (it is not necessary to remove it completely) and ease the stem from the base (figure 5)
3. Transfer the collar to the new stem and fit in the reverse order to 1 and 2. Note the comments below about the orientation of the stem to the base

Mounting the HCM 1 on a wall or ceiling

The stand's base may be screwed to a wall or ceiling using suitable countersunk screws (not supplied). Fix into solid masonry or a joist. Ceiling and wallboarding material alone will not be strong enough (figure 6).

1. Pull the rubber trim from the base and remove the stem as described above
2. Mark the three screw positions on the mounting surface carefully. Be careful to use the correct screws or mounting bolts for your surface
3. Ensure the correct stem is fitted to the cabinet, slot into the base as required and tighten the grub screw in the rear of the base
4. Angle the cabinet as required and tighten the three screws round the ball and socket.

The HCM 1 grille

HCM 1 is supplied with a thin textile scrim behind the perforated metal grille to obscure the drivers from view. For improved sound clarity, gently pull the grille away from the cabinet using a small hook through the holes and remove the scrim. Then refit the grille in the slot around the cabinet, taking care not to scratch the paint finish.

Electrical Connection

HCM 1 speakers are suitable for amplifiers of 20 watts to 150 watts.

Connect Red + to Red + on your amplifier and Black - to Black -. Correct phasing of all speakers in an installation is vital. Loss of bass and poor imaging will result if this connection is incorrect.

For detailed instructions on connecting the **HCM 1** to home cinema systems, please refer to your decoder manual.

HCM 1 contains a thermal overload protection device which turns down the input level when the safe power handling limit is reached. Under these conditions, the input to the speaker should be reduced.

Taking care of your HCM 1

The cabinets may be cleaned using a soft damp cloth. Avoid sprays which may damage the paint finish. The grilles may be lightly dusted using a soft brush.

SPECIFICATION

Cabinet	Toughened Co-Polymer multi radius construction
Enclosure	Vented bass enclosure with 4th-order alignment
Drive Units	1x 130mm (5in) dia bass/midrange 1x 25mm (1in) dia dome high-frequency
Power Handling	150 watts
Sensitivity	89dB spl (2.83V, 1m)
Frequency Response	70Hz - 20kHz (± 3 dB)
Crossover Frequency	3.5kHz
Impedance	Nominal 8 Ω
Protection	Polyswitch
Dimensions	Height: 235mm (9.25in) Width: 165mm (6.5in) Depth: 165mm (6.5in)
Weight	3kg (6.6lb)
Finishes	Black or White

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Warning

While every precaution has been taken to ensure the mechanical soundness of the HCM 1 fixing arrangements, Rock Solid Sounds Incorporated Ltd. accepts no responsibility for damage or injury caused by failure of either the wall mount or its fixings.

Fig 1. Typical Dolby Surround, Dolby Pro-Logic & Dolby Digital Room Layout

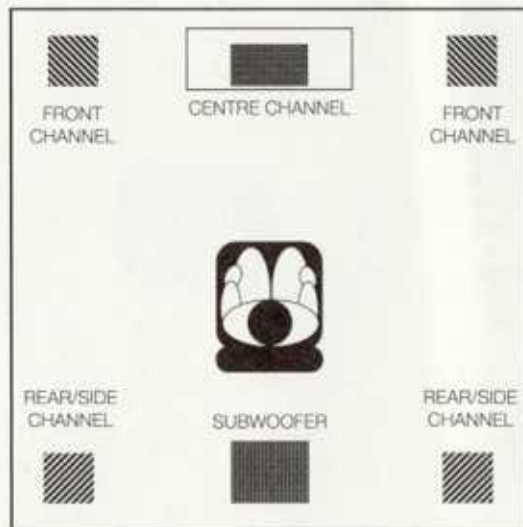


Figure 2.

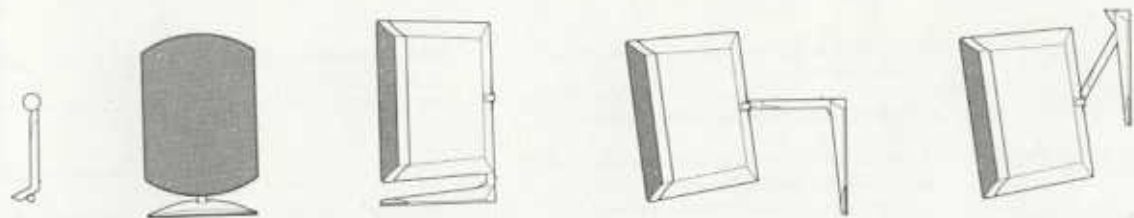


Figure 3.

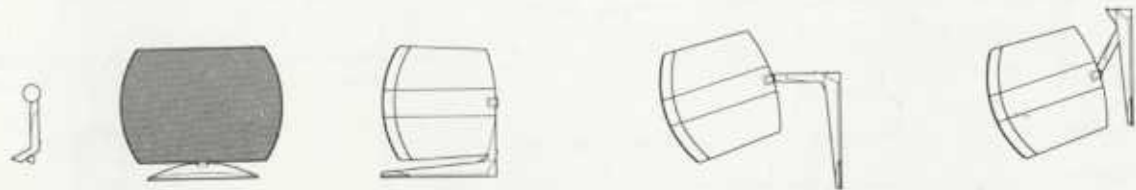


Figure 4.

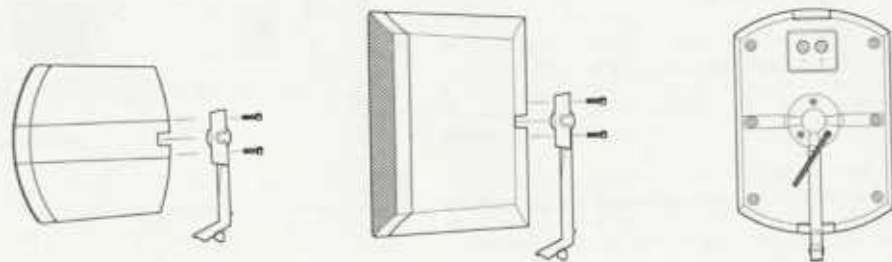


Figure 5.

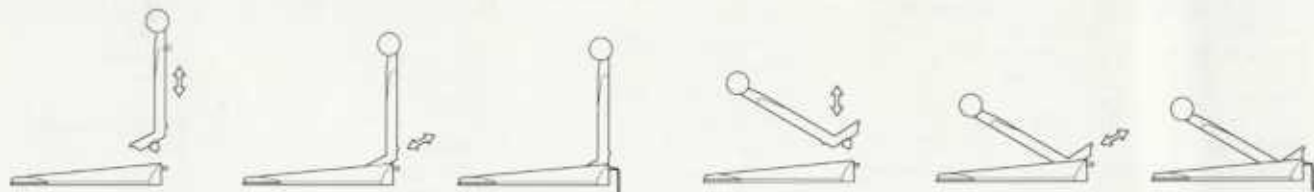


Figure 6.

