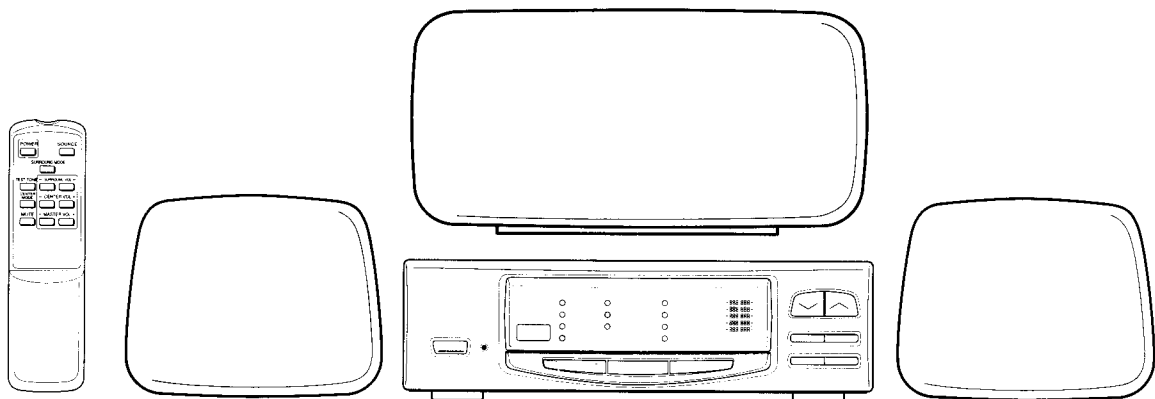


SANYO

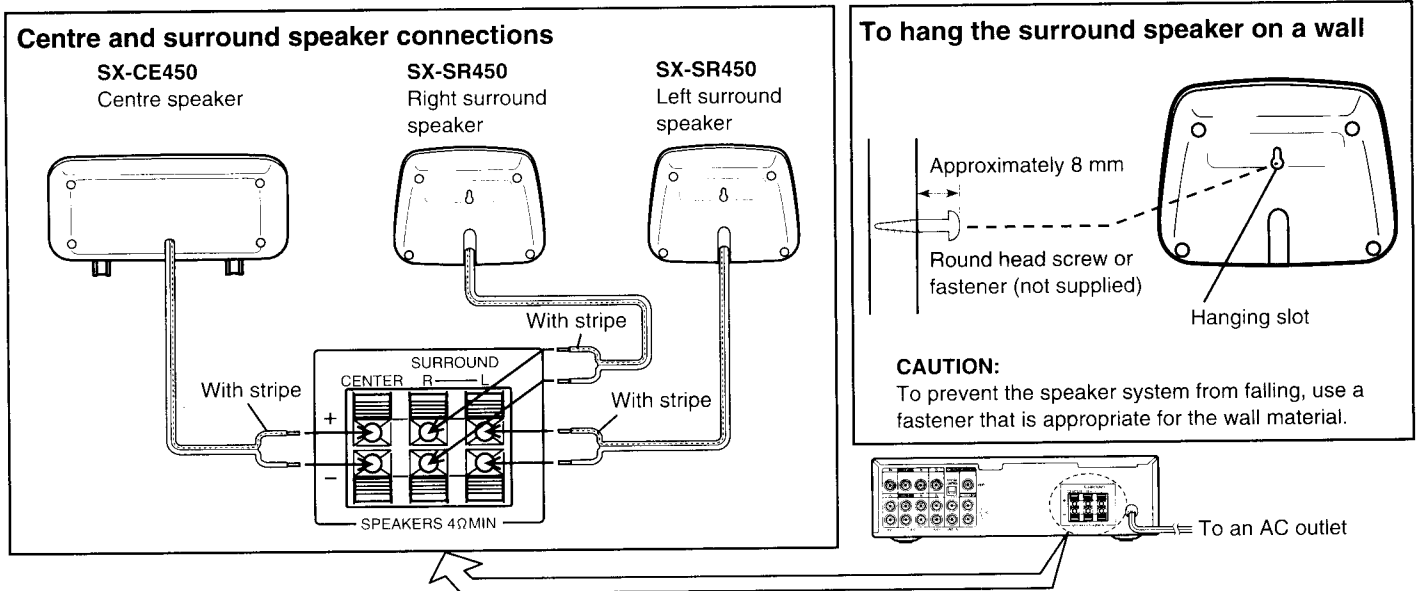
INSTRUCTION MANUAL

HT-F450

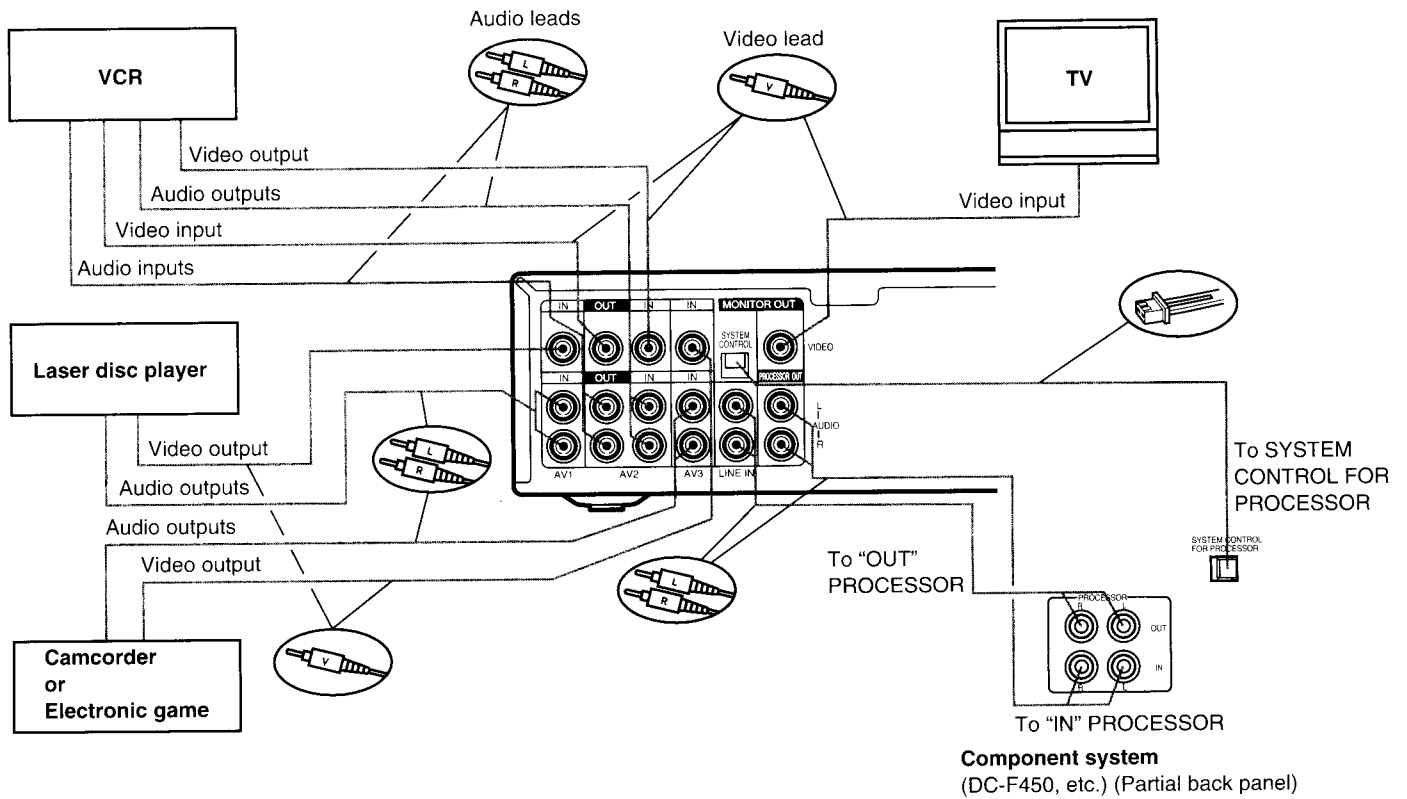
AV Surround Processor



CONNECTIONS



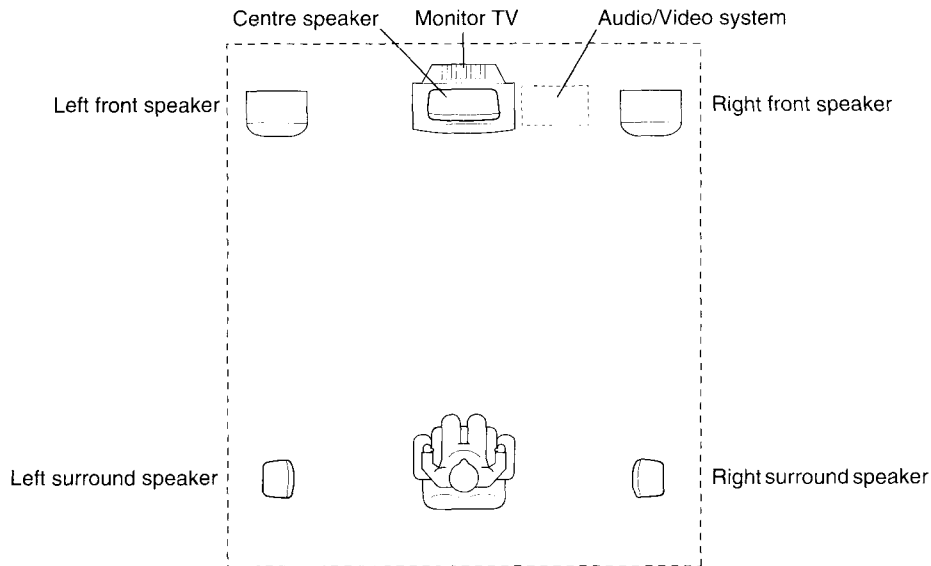
Example:
System HT-F450 and component system (SANYO DC-F450, etc.)



Note:

- Place the HT-F450U surround processor on the top of the component system to ensure proper ventilation.
- Only one stereo audio leads, one video lead and one system control lead are supplied.

Speaker placement



Do not install this equipment in a confined space, such as a book case or built in cabinet.

Note:

- Do not connect the mains lead to an AC outlet until all connections have been made.
- Before connecting the mains lead, set the POWER button on the front panel to ϕ (button out).
- The system is not completely disconnected from the mains when the POWER button is set to the ϕ position.

Speakers

Connect the centre speaker leads to the "CENTER" SPEAKERS terminals. Connect the surround speaker leads to the "SURROUND" SPEAKERS terminals.

Note:

- Use speakers with a minimum impedance of 4 ohms.
- When connecting the speakers, make sure that (+) and (-) polarities are matched properly. Otherwise, the sound may appear to be lacking in the bass range and in stability.
Connect the speaker wire with the stripe to the red terminal (+) and the other wire to the black terminal (-).

Component system (DC-F450)

Remove the two jumper pins on the PROCESSOR sockets of the DC-F450U component system.

Connect audio leads from the "IN" PROCESSOR sockets of the DC-F450U to the PROCESSOR OUT sockets. Connect audio leads from the "OUT" PROCESSOR sockets of the DC-F450U to the LINE IN sockets.

For system control operation, connect the system control lead from the SYSTEM CONTROL FOR PROCESSOR socket of the DC-F450U to the SYSTEM CONTROL socket.

System control operation

1. Press the POWER button on the front panel to ON (button in).
2. The AC power to this unit is turned on and off with the POWER button on the connected DC-F450U. Also the AC power to this unit is turned on and off with the timer controlled operation on the DC-F450U.
 - When the power is turned off by the system control operation, the STANDBY indicator lights and the unit is in the standby condition.

Note:

When the power is turned on by the system control operation, the POWER button on the remote control will not function.

VCR (Video Cassette Recorder)

Connect audio and video leads from the audio and video output sockets of a VCR to the "AUDIO" and "VIDEO" AV2 IN sockets.

Connect audio and video leads from the audio and video input sockets of a VCR to the "AUDIO" and "VIDEO" AV2 OUT sockets respectively.

LD (Laser Disc) player

Connect audio and video leads from the audio and video output sockets of a LD player to the "AUDIO" and "VIDEO" AV1 IN sockets respectively.

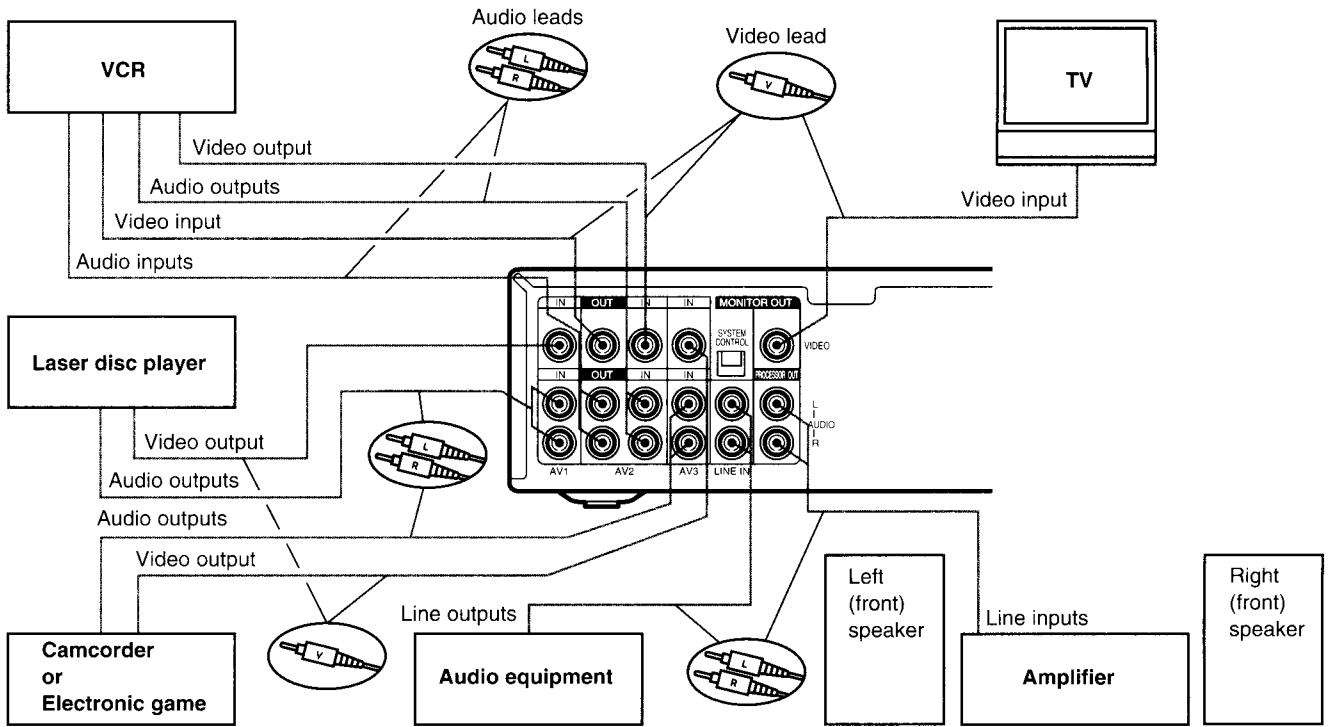
Camcorder or Electronic game

Connect audio and video leads from the audio and video output sockets of a camcorder or electronic game to the "AUDIO" and "VIDEO" AV3 IN sockets respectively.

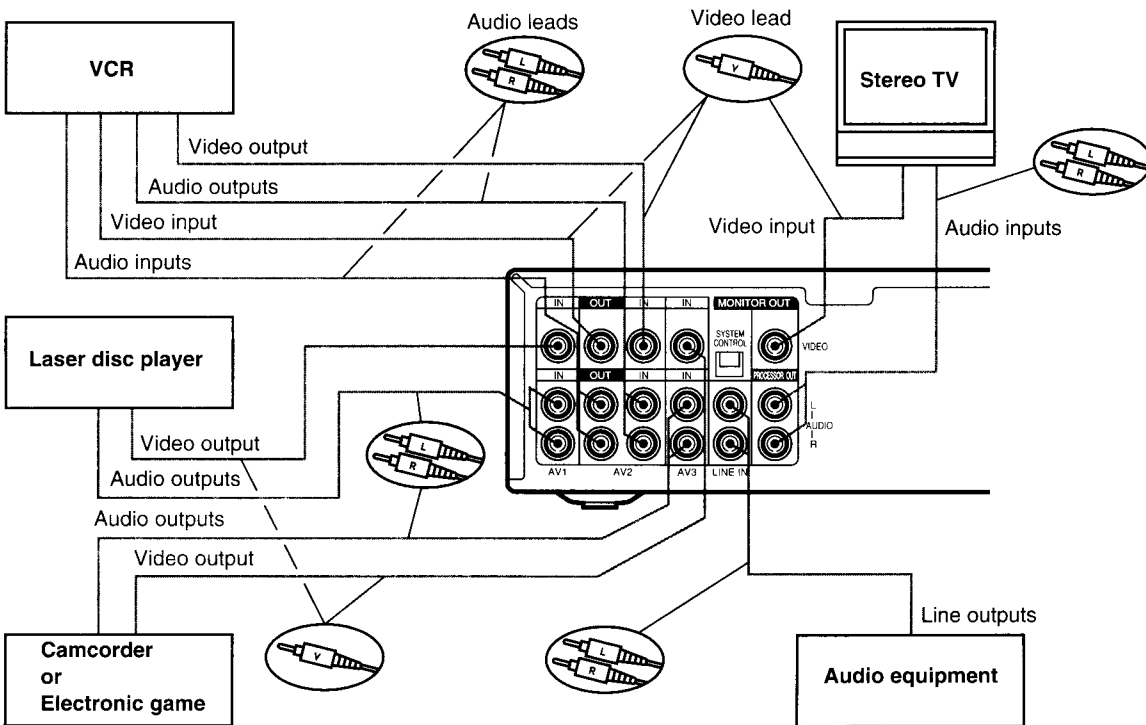
TV

Connect a video lead from the video input socket of a TV to the "VIDEO" MONITOR OUT socket.

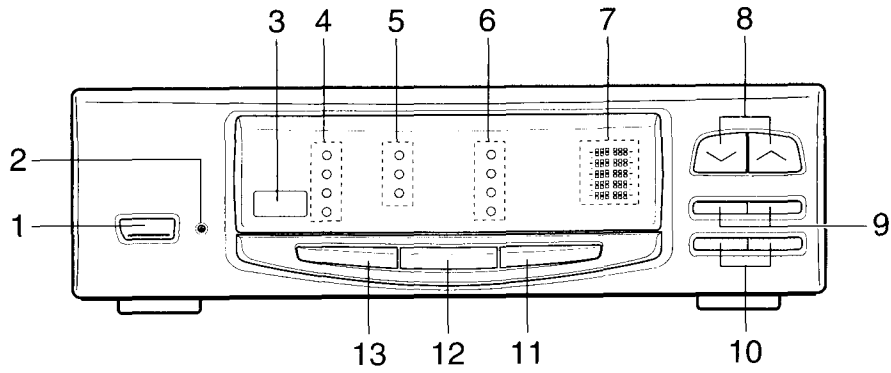
**Additional example 1:
System HT-F450 and other amplifier**



**Additional example 2:
System HT-F450 only**



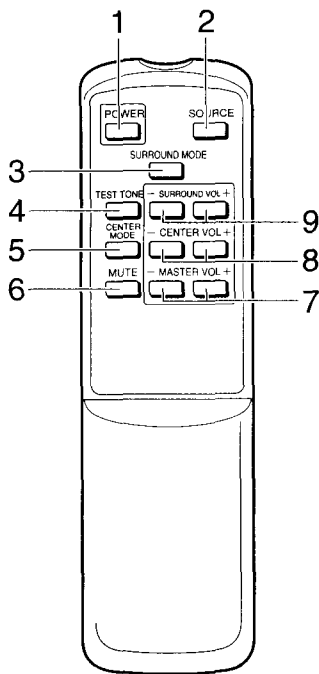
CONTROLS



- | | |
|--|---|
| <ul style="list-style-type: none"> 1. Power button (POWER) 2. Standby indicator (STANDBY) 3. Remote sensor (IR) 4. Source indicators (SOURCE) 5. Centre mode indicators (CENTER MODE) 6. Surround mode indicators (SURROUND MODE) 7. Master volume level indicators (VOL LEVEL) | <ul style="list-style-type: none"> 8. Master volume buttons (MASTER VOLUME) 9. Centre volume buttons (CENTER VOLUME) 10. Surround volume buttons (SURROUND VOLUME) 11. Surround mode button (SURROUND MODE) 12. Centre mode button (CENTER MODE) 13. Source button (SOURCE) |
|--|---|

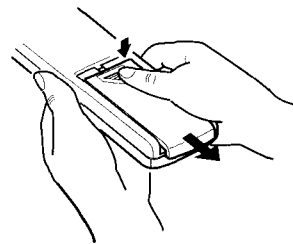
REMOTE CONTROL

Controls

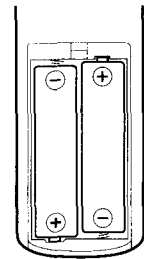


Inserting batteries

1



2

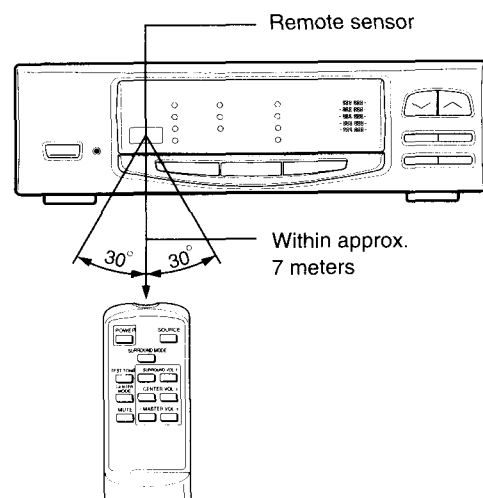


Two AA/SUM-3/R6 batteries
(not supplied)

Note:

Always remove batteries if the remote control is not to be used for a month or more. Batteries left in the unit may leak and cause damage.

Remote control range



- 1. Power button (POWER)
- 2. Source button (SOURCE)
- 3. Surround mode button (SURROUND MODE)
- 4. Test tone button (TEST TONE)
- 5. Centre mode button (CENTER MODE)
- 6. Muting button (MUTE)
- 7. Master volume buttons (MASTER VOL)
- 8. Centre volume buttons (CENTER VOL)
- 9. Surround volume buttons (SURROUND VOL)

The buttons on the remote control perform functions identical to similarly marked buttons on the front panel.

ABOUT DOLBY SURROUND

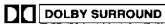
What is Dolby Surround sound?

Dolby Surround sound is a multichannel sound processing system originally developed to enhance the soundtracks of theatrical motion pictures. The multichannel capability enables film makers to present dialogue and sound effects in a more dimensional manner that complements the action occurring on the screen. For example, a car racing from screen right to screen left is accompanied by the sound of the engine, screeching tires, etc., moving in the same direction throughout the theater.


How does Dolby Surround sound work in the home?

Designed by Dolby Laboratories, the home version of this system utilizes a matrix encoding scheme that combines 4 separate signals (left, right, surround, centre) into 2 channels, for distribution on stereo video tapes,

laser discs, and other software. The Pro Logic surround decoder restores the original left, right, centre and surround channels, which stabilizes the action occurring at the centre of the screen. The Pro Logic surround system recaptures the full richness and depth of a film encoded in Dolby Surround, for enjoyment in the comfort of your own home.

To achieve the best sound performance, select music sources which have the  mark.


Manufactured under license from Dolby Laboratories Licensing Corporation.

DOLBY, the double-D symbol  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

BEFORE OPERATION

Turning the power on and off

Press the POWER button on the front panel to ON (button in). The power turns on and display lights. (After connecting the mains lead, when you press the POWER button for the first time, the volume reset feature automatically sets the initial volume level.)

- If the power does not turn on, press the POWER button to , then press it again to ON.

To turn off the power, press the POWER button again to  (button out).

Using the remote control

First, press the POWER button (button in) on the front panel. The unit will respond to commands from the remote control.

To turn the power on and off, press the POWER button on the remote control.

- When the power is turned off by using the remote control, the STANDBY indicator lights and the unit is in the standby condition.

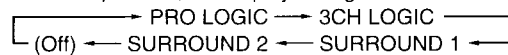
Selecting the source

Press the SOURCE button to select the input source (AV1, AV2, AV3 or LINE). The selected SOURCE indicator lights.

- When listening to sources from the DC-F450U component system, select "LINE".

Selecting the surround mode

Press the SURROUND MODE button to select the surround mode. Each time the button is pressed, the display changes as follows:



- To turn off the surround effect, select the off mode (all SURROUND MODE indicators off). This setting produces normal stereo sound; the centre and surround speakers will not be heard.

Adjusting the master volume

Press the + or - MASTER VOLUME button.

The VOL LEVEL on the display shows the relative MASTER VOLUME position.

Adjusting the centre or surround volume

Press the CENTER or SURROUND VOLUME button.

To reduce the overall volume temporarily (muting)

Press the MUTE button on the remote control. The VOL LEVEL on the display blinks. To restore the previous volume settings, press the MUTE button again.

OPERATION

Note:

If a monaural programme source is used, the sound from the front and surround speakers will not be heard or will be heard at very low volume.

PLAYING WITH DOLBY SURROUND

When playing a programme source encoded with Dolby Surround sound (video tape, laser disc, etc.), follow the steps below.

1. Adjust the VOLUME control on the equipment used for the front speakers to your ordinary volume level.
2. Press the SOURCE button to select the source to be played.
3. Press the SURROUND MODE button to select "PRO LOGIC".

When using only the front speakers (left, centre and right – no surround speakers), select "3CH LOGIC".

- The sound that would normally be routed to the surround speakers is combined with the front sound and routed to the left and right front speakers.

4. When selecting the "PRO LOGIC", press the CENTER MODE button to select the appropriate operating mode according to your speaker placement.

NORMAL:

When using a centre speaker having limited low-frequency response.

The low-frequency sounds occurring at the centre of the screen are routed equally to the left and right front speakers.

WIDE:

When using a full-range centre speaker similar in size and sound quality to the front speakers.

The low-frequency sounds occurring at the centre of the screen are routed to the centre speaker.

PHANTOM:

When a centre speaker is not used.

The sound occurring at the centre of the screen is routed equally to the left and right front speakers. This creates the illusion that the sound is coming from the centre.

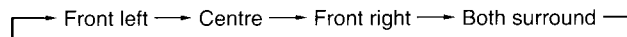
5. Press the + or – MASTER VOLUME button to adjust the volume.
 - The MASTER VOLUME buttons affect the sound level from all speakers.

Using the test tone

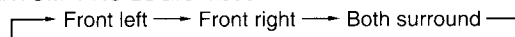
For optimum surround sound performance, adjust the centre and surround volume as explained below. The adjustments can be made at the listening point using the remote control.

1. Follow the steps 1 - 4 above.
2. Press the TEST TONE button. The test tone will be heard from each speaker sequentially as follows.

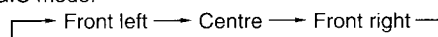
"NORMAL" and "WIDE" PRO LOGIC mode:



"PHANTOM" PRO LOGIC mode:



3CH LOGIC mode:



3. Adjust the CENTER VOL or SURROUND VOL buttons until the sound from each speaker is the same.
4. When finished, press the TEST TONE button to turn the test tone off.

PLAYING WITH SURROUND 1 OR 2

When playing a programme source which is not encoded with Dolby Surround sound, such as CDs or cassettes, follow the steps below.

1. Adjust the VOLUME control on the equipment used for the front speakers to your ordinary volume level.
2. Press the SOURCE button to select the source to be played.
3. Press the SURROUND MODE button to select the "SURROUND 1" or "SURROUND 2".

SURROUND 1:

This mode adds a theater-like quality.

SURROUND 2:

Adds a stage-like quality.

The centre speaker does not function in this mode.

4. Press the + or – MASTER VOLUME button to adjust the volume.

CLEANING THE CABINET

Use a soft cloth to remove dirt on the main unit.

If the dirt persists, dip a soft cloth into a diluted solution of neutral detergent, wring it out, wipe away the dirt, and then take up any moisture with a dry cloth.

Do not use benzene, thinners or alcohol since they will mar the finish of the surfaces.

SPECIFICATIONS

Output power:

Centre amplifier: 15 W (at 4 ohms, 10% distortion)
Surround amplifier: 15 W x 2 (at 4 ohms, 10% distortion)

Inputs

AV1 IN/AV2 IN/AV3 IN "AUDIO": 300 mV/47k ohms
AV1 IN/AV2 IN/AV3 IN "VIDEO": 1 V P-P/75 ohms
LINE IN "AUDIO": 300 mV/47k ohms

Outputs

AV2 OUT "AUDIO": 300 mV/47k ohms
PROCESSOR OUT "AUDIO": 1 V/1k ohm
AV2 OUT/MONITOR OUT "VIDEO": 1 V P-P/75 ohms
CENTER/SURROUND SPEAKERS: 4 ohms

Power requirements:

AC 230 - 240 V, 50 Hz

Power consumption:

60 W

Dimensions:

270(W) x 80(H) x 330(D) mm

Weight:

3.8 kg

Speaker systems

Centre speaker (SX-CE450)

Unit used:

Full range: 10 cm cone type

Maximum power-handling capacity:

30 W (peak)

Nominal impedance:

4 ohms

Dimensions:

270(W) x 130(H) x 145(D) mm

Weight:

1 kg

Surround speakers (SX-SR450)

Unit used:

Full range: 10 cm cone type

Maximum power-handling capacity:

30 W (peak)

Nominal impedance:

4 ohms

Dimensions:

180(W) x 130(H) x 130(D) mm

Weight:

0.7 kg (per speaker)

Specifications subject to change without notice.

The SANYO logo is displayed in a bold, black, sans-serif font. The letters 'S', 'A', and 'N' are connected, as are 'Y', 'O', and 'O'. The 'I' and 'Y' are separated by a vertical line. The 'O's are also connected to the 'Y'.