

**SHARP**

**HOME CINEMA COMMAND**

MODEL

**HT-CN300H**

**OPERATION MANUAL**

If you require any advice or assistance regarding your Sharp product, please visit our web-site [www.sharp.co.uk/support](http://www.sharp.co.uk/support). Customers without Internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland).

DIGITAL  
**dts**  
SURROUND

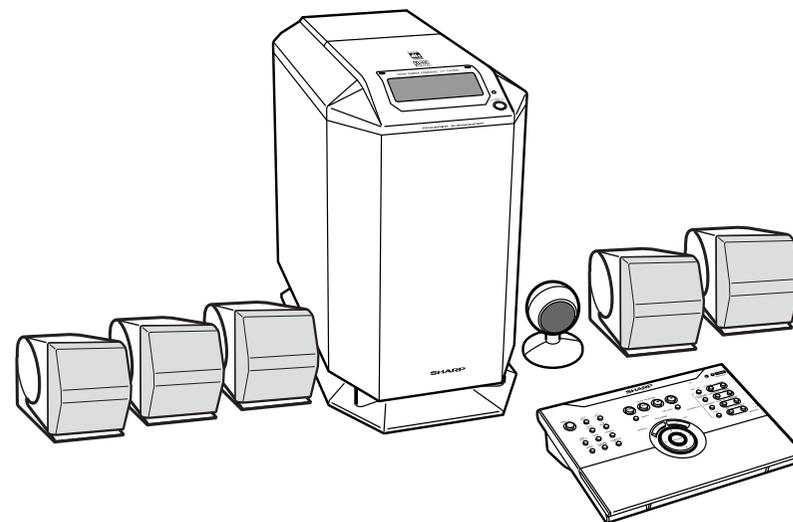
**DOLBY**  
DIGITAL

**OR·D·S**

**SAVING ENERGY**  
STAND-BY POWER  
CONSUMPTION **0.6w**

Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

HT-CN300H Home Cinema Command consisting of HT-CN300H (main unit), CP-CN300HF (front speakers), CP-CN300HC (center speaker) and CP-CN300HR (surround speakers).



# Special Notes

## NOTES FOR USERS IN THE U.K. AND IRELAND

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 3A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked  or  and of the same rating as above, which is also indicated on the pin face of the plug must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut-off the mains plug and fit an appropriate type.

### DANGER:

The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet as a serious electric shock may occur.

To fit an appropriate plug to the mains lead, follow the instructions below:

### IMPORTANT:

The wires in the mains lead are coloured in accordance with the following code:

Blue : Neutral

Brown : Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three pin plug.

Before replacing the plug cover, make sure that:

- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

### SERVICE INFORMATION

In the unlikely event of your equipment requiring repair, please contact the dealer or supplier from whom it was purchased. Where this is not possible, please visit our web-site [www.sharp.co.uk/support](http://www.sharp.co.uk/support).

Customers without internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland).

Please note; all calls will be charged at local rate.

Certain replacement parts and accessories may be obtained from our main parts distributor.

WILLOW VALE ELECTRONICS LTD.  
0121 766 5414

In the unlikely event of this equipment requiring repair during the guarantee period, you will need to provide proof of the date of purchase to the repairing company. Please keep your invoice or receipt, which is supplied at the time of purchase.

## WARNINGS

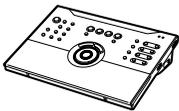
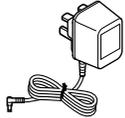
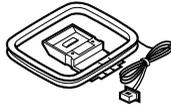
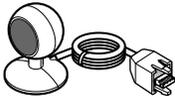
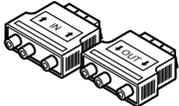
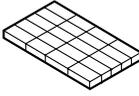
- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.
- This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.
- The supplied AC adaptor contains no user serviceable parts. Never remove covers unless qualified to do so. It contains dangerous voltages, always remove mains plug from the main outlet socket before any service operation or when not in use for a long period.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the apparatus.

## NOTES

- This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.
- The letters in brackets contained in the model number indicate the colour of the product only. Operation and specifications are unaffected.
- Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942, 5,956,674, 5,974,380, 5,978,762 and other world-wide patents issued and pending. "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc. Copyright 1996, 2000 Digital Theater Systems, Inc. All Rights Reserved.
- Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. © 1992-1997 Dolby Laboratories. All rights reserved.

# Accessories

Please confirm that the following accessories are included.

 Remote control × 1	 AC adaptor for remote control × 1 (RADPA8005BGZZ)	 Labels for remote control × 1	 FM aerial × 1
 AM loop aerial × 1	 Remote control sensor × 1	 Double-sided tape for remote control sensor × 1	 SCART adaptor × 2 (IN/OUT)
 Video cable × 1	 White Front (left): 5 m (15')	 Green Centre: 5 m (15')	 Red Front (right): 5 m (15')
 Speaker cushion × 20	 Blue Surround (left): 15 m (45')	 Grey Surround (right): 15 m (45')	 Speaker connection lead × 5

**Note:**

Only the above accessories are included.

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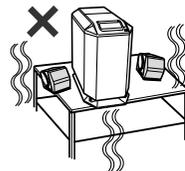
# Precautions

## ■ General

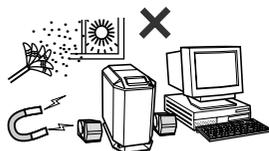
- Please ensure that the equipment is positioned in a well ventilated area and that there is at least 10 cm (4") of free space along the sides and back. There must also be a minimum of 15 cm (6") of free space on the top of the unit.



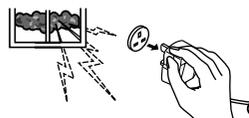
- Use the unit on a firm, level surface free from vibration.



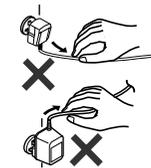
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/ electrical equipment (home computers, facsimiles, etc.) which generates electrical noise.



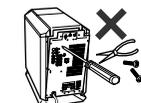
- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.
- In case of an electrical storm, unplug the unit for safety.



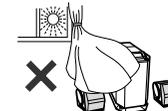
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.



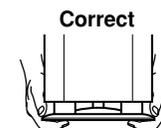
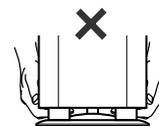
- Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.



- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.



- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- The apparatus is designed for use in moderate climate.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).
- When carrying the unit by hand, do not hold the subwoofer located on the lower part. The subwoofer may be damaged.



### Warning:

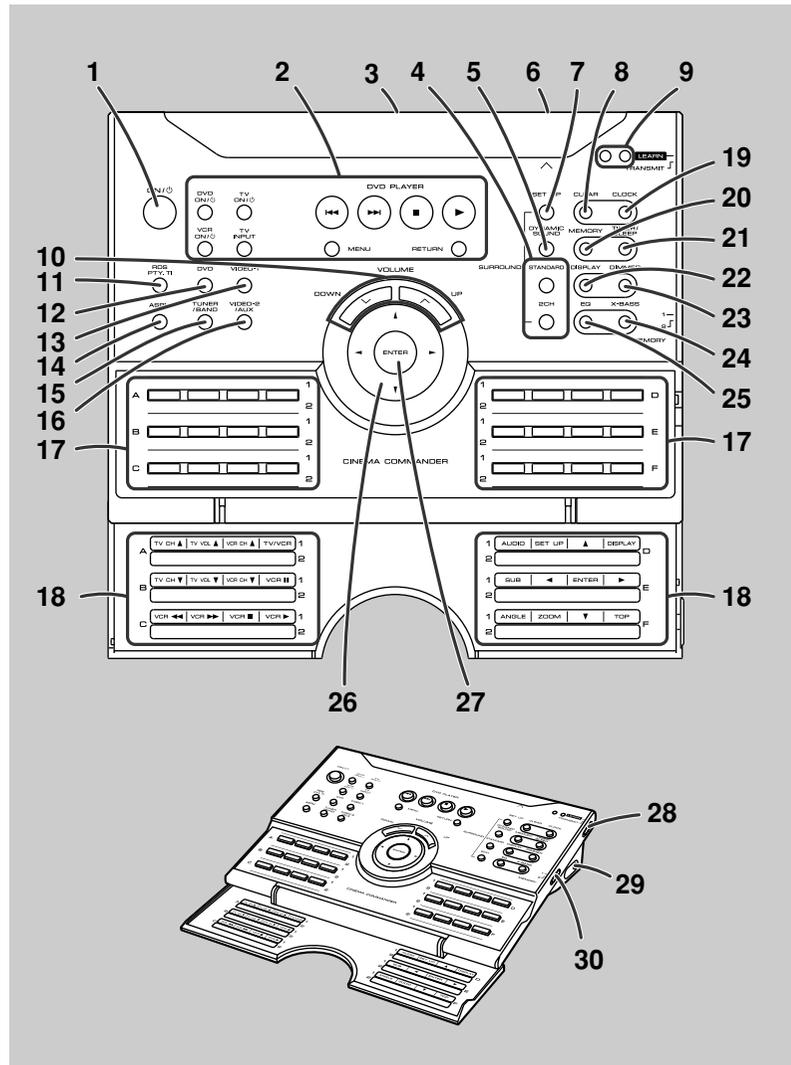
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

## ■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels, to avoid this do not turn the volume on to full at switch on and listen to music at moderate levels.

# Controls and indicators

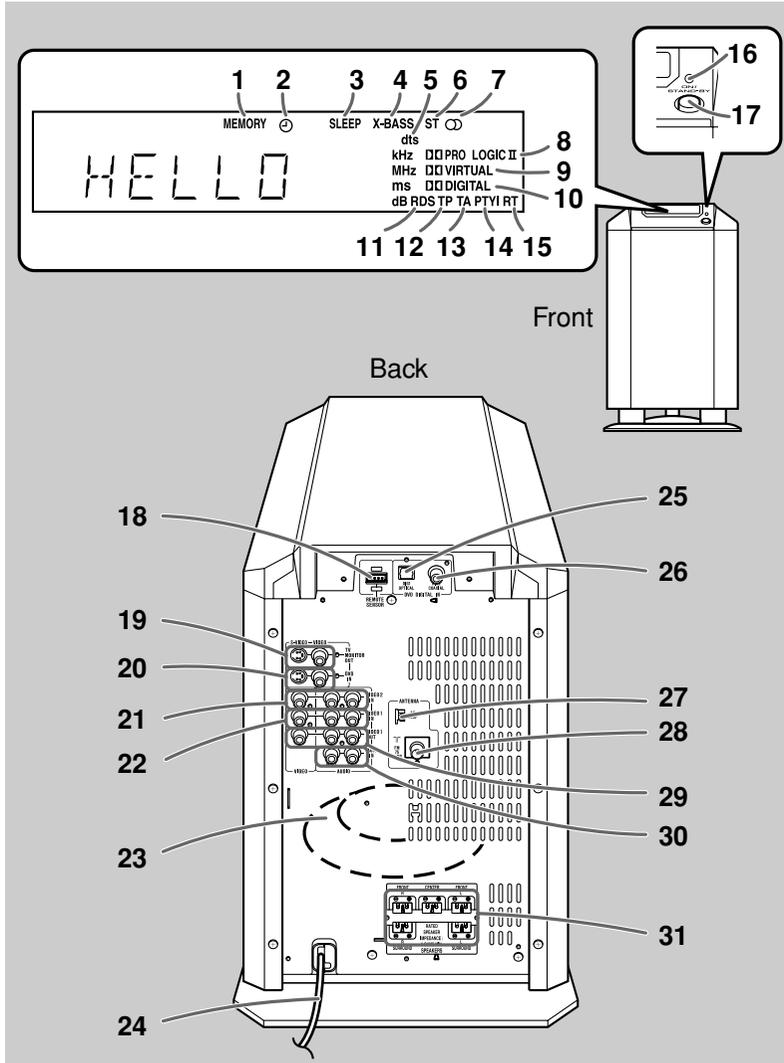
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## Remote control

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# Controls and indicators (continued)

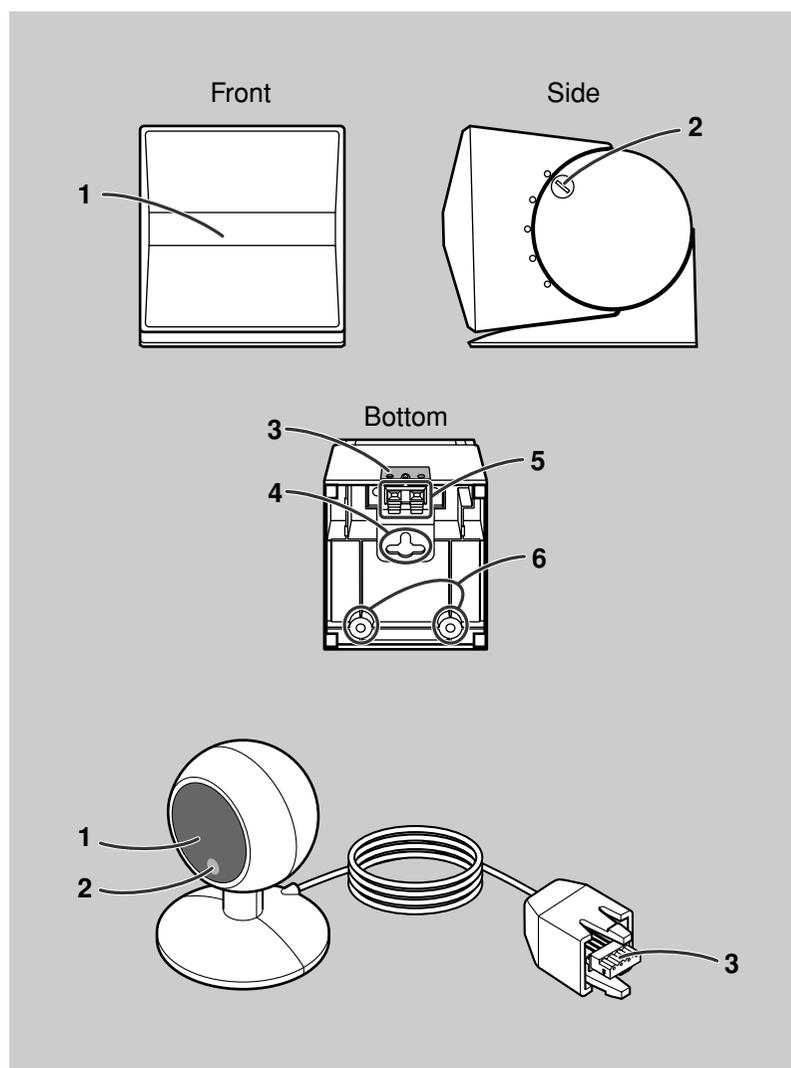


## ■ Main unit (with subwoofer)

- 1. Memory Indicator
- 2. Timer Play Indicator
- 3. Sleep Indicator
- 4. Extra Bass Indicator
- 5. Digital Theatre System Indicator
- 6. FM Stereo Mode Indicator
- 7. FM Stereo Receiving Indicator
- 8. Dolby Pro Logic II Indicator
- 9. Dolby Virtual Indicator
- 10. Dolby Digital Indicator
- 11. RDS Indicator
- 12. Traffic Programme Indicator
- 13. Traffic Announcement Indicator
- 14. Dynamic PTY Indicator
- 15. Radio Text Indicator

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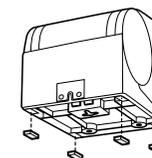
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### Speaker cushion:

Attach the cushions to the bottom of the speakers to prevent them from sliding.



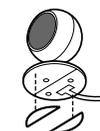
## ■ Remote control sensor

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### Double-sided tape for remote control sensor:

You can fix the remote control sensor with the supplied tape.



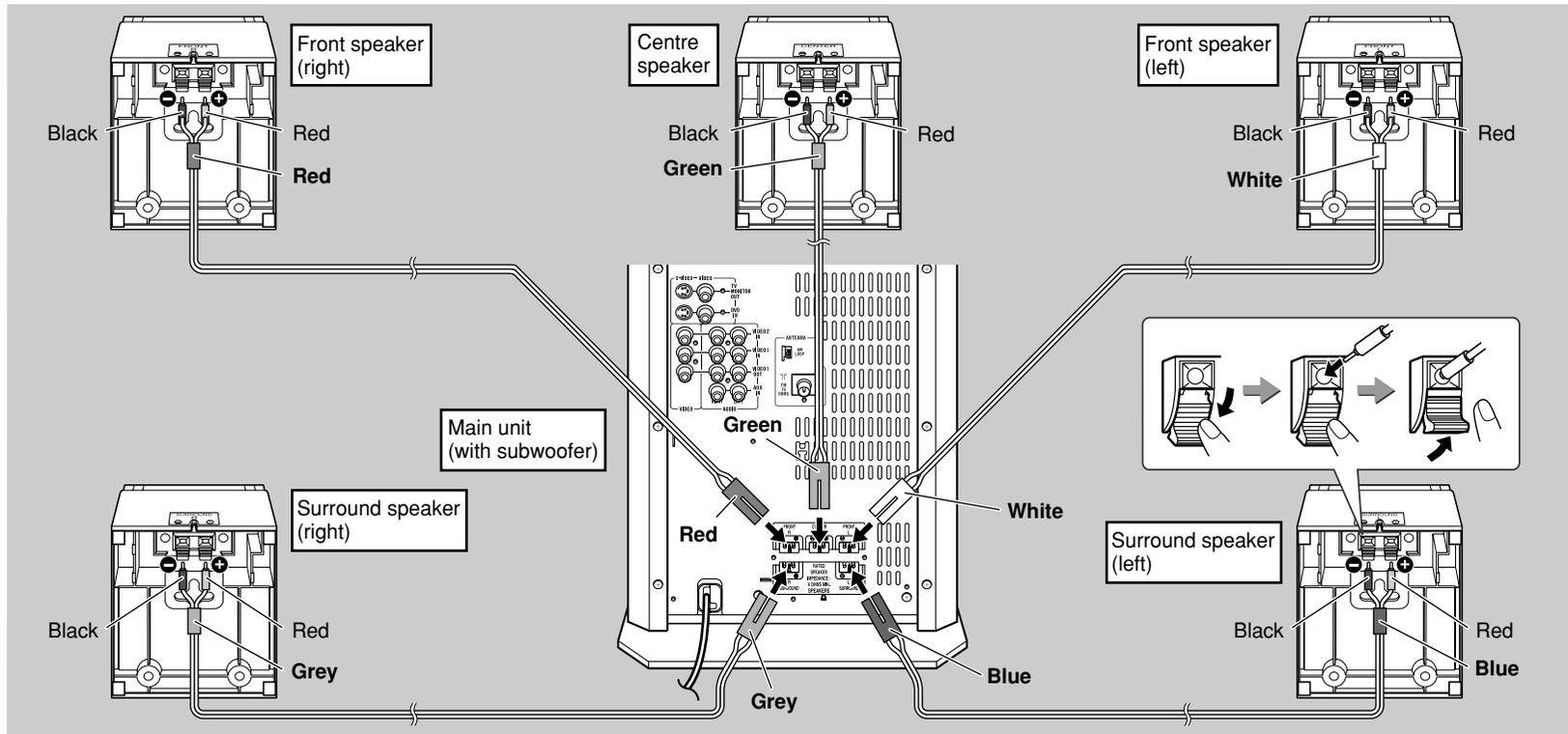
### Caution:

- Carefully choose where you place the remote control sensor as the adhesive tape may damage or peel the surface coating when the tape is removed.
- Never locate the remote control sensor in an unstable place. Otherwise it may fall.

### Note:

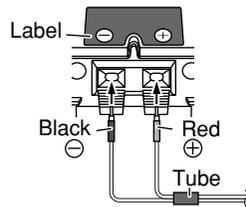
Fix the remote control sensor on a flat surface.

# Speaker connections

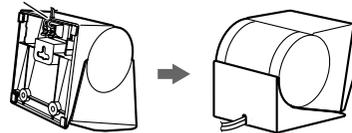


The speaker terminals on the main unit, the tube and plugs of the speaker lead, and speaker labels are distinguished by colour. Connect the speaker and the unit by matching the colours. Connect the speaker wires to the speakers first, then to the unit.

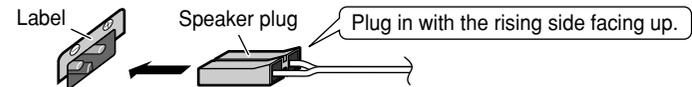
## Speaker



Recess



## Main unit



**Caution:**

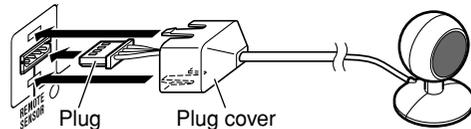
- Only the supplied speakers should be used with this unit.
- Make sure to connect the speakers after unplugging the unit.
- Do not mistake ⊕ and ⊖, and right and left terminals of the speaker leads.
- Do not let the bare speaker wires touch each other.



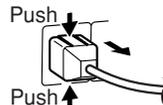
- Do not stand or sit on the speakers. You may be injured.
- Insert the speaker plug fully with the rising side facing up.
- Hold the speaker plug when removing it from the unit. Pulling the lead may cause breakage.

## Remote control sensor connection

Connect the plug of the remote control sensor and push the plug cover until it clicks.

**Removing the remote control sensor:**

Push the upper and lower sides of the plug cover and take the plug off the unit to disconnect the remote control sensor.

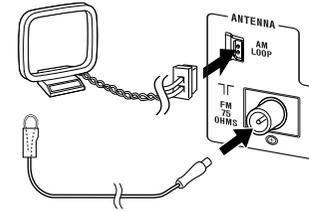
**Caution:**

- Hold the connection plug of the remote control sensor when removing it from the unit. Pulling the lead may cause breakage.
- Make sure of the top and bottom of the plug when plugging in the remote control sensor.

## Aerial connection

**Supplied FM aerial:**

Connect the FM aerial wire to the FM 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.

**Supplied AM loop aerial:**

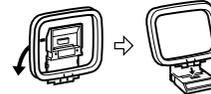
Connect the AM loop aerial to the AM LOOP socket. Position the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).

**Note:**

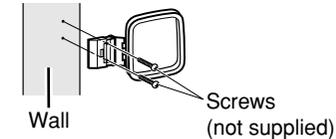
Placing the aerial on the unit, or near the AC power lead or the remote sensor may cause noise pickup. Place the aerial away from the unit for better reception.

**Installing the AM loop aerial:**

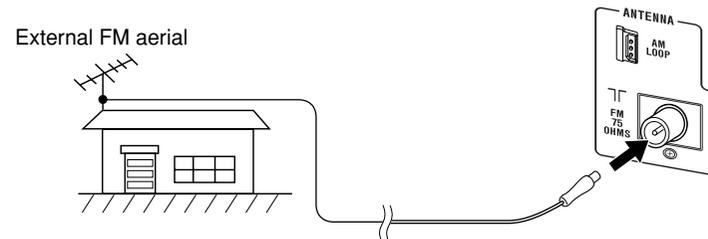
&lt; Assembling &gt;



&lt; Attaching to the wall &gt;

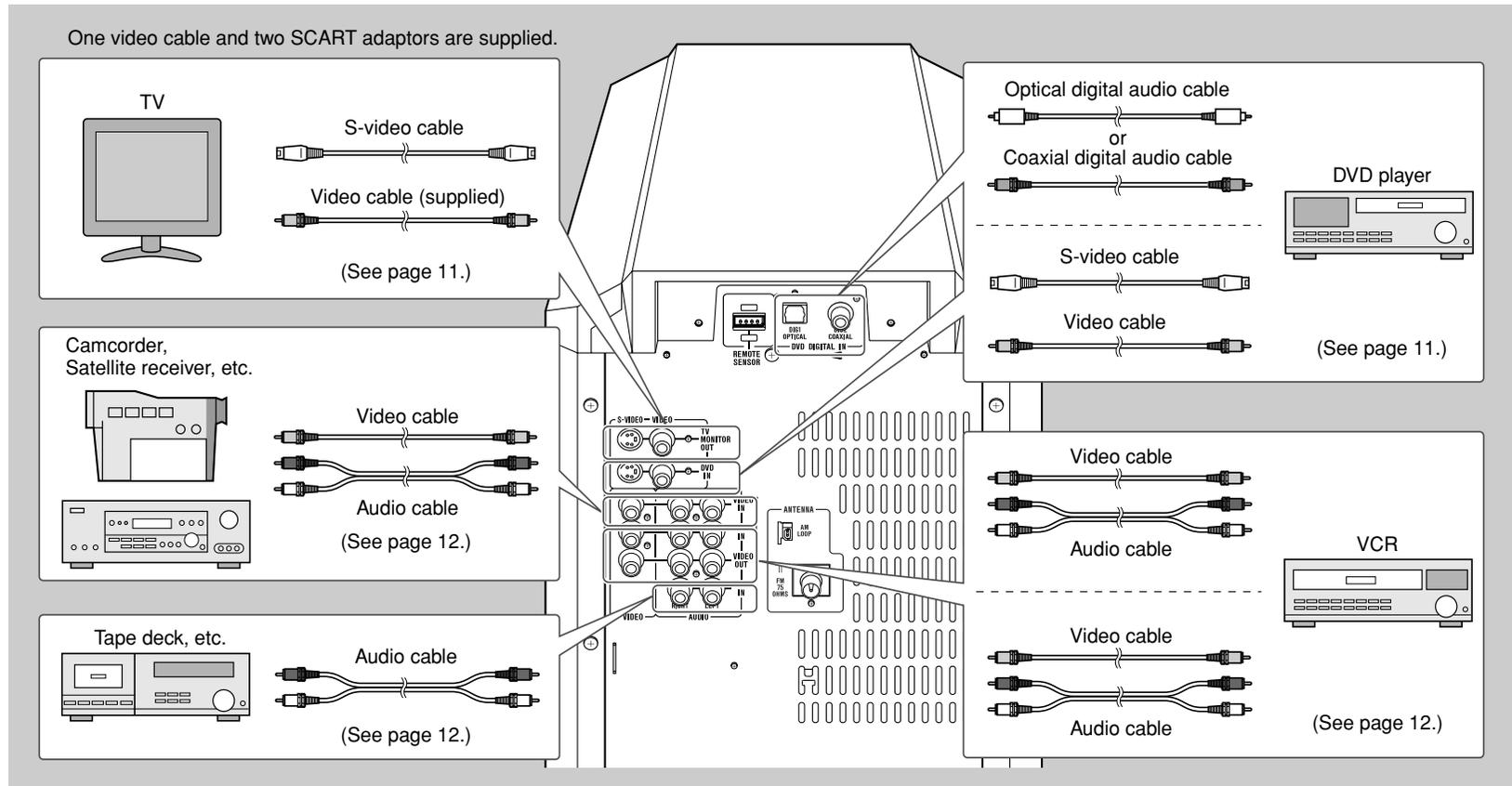
**External FM aerial:**

Use an external FM aerial if you require better reception. Consult your dealer.

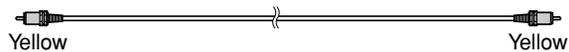


# Connecting other equipment

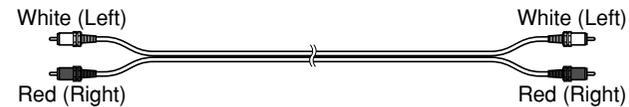
To enjoy images or music, connect other equipment to the main unit with the supplied video cable for TV or you can purchase commercially available cables.



Video cable:



Audio cable:



**Caution:**

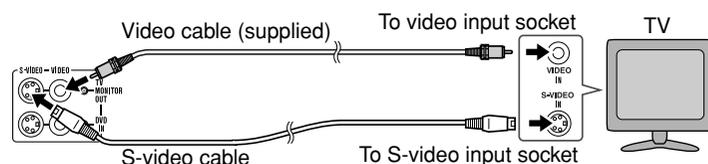
Turn off all other equipment before making this connection.

**Notes:**

- Refer to the operation manual of the equipment to be connected.
- Insert the plugs fully to avoid fuzzy pictures or noise.

**■ Connecting the TV**

Connect the TV to the main unit with the supplied video cable. If your TV has S-video input socket, connect the commercially available S-video cable to enjoy clearer images on DVDs.

**Notes:**

- Change the TV input in accordance with the connected socket.
- Do not connect other equipment between the TV and this unit. If they are connected via a VCR, pictures may be distorted.
- When the video and S-video cables are both connected, the images from the S-video input socket appears on your TV.

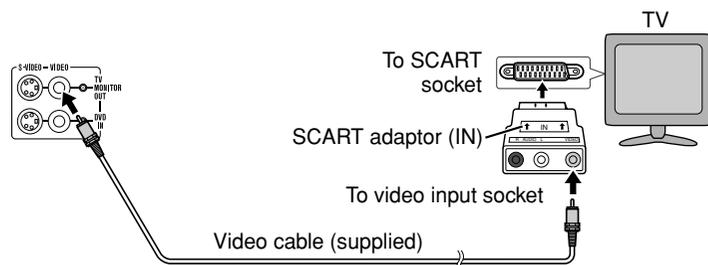
**Caution:**

The settings appear only when the TV is connected with a video cable. They will not appear when the TV is connected with an S-video cable.

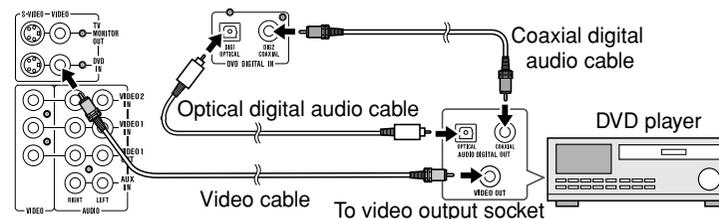
During the tuner or auxiliary mode, the TV screen display will not be shown. (See page 23 for the TV screen display.)

**Connecting the TV with SCART socket:**

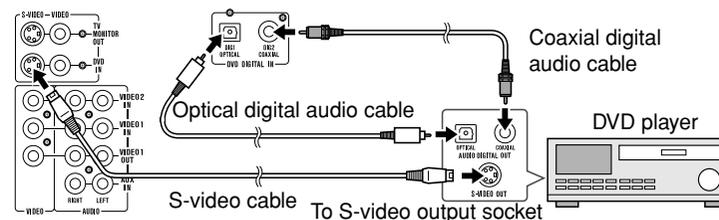
Use a supplied SCART adaptor (IN).

**■ Connecting the DVD player**

Use the video cable or the S-video cable for receiving images. The S-video cable can realise clearer images. For audio, connect with the optical digital cable or the coaxial digital cable.

**To connect to the video socket with the video cable:****Note:**

When connecting a DVD player with a video cable, be sure to use another video cable for the TV.

**To connect to the S-video socket with the S-video cable:****Note:**

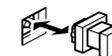
When connecting a DVD player with an S-video cable, be sure to use another S-video cable for the TV. This unit cannot convert the S-video signal into the video or other signals.

**Switching the DVD audio input:**

Switch the DVD's audio signal with the remote control according to the connected socket, "DIG1" (optical) or "DIG2" (coaxial) (see page 18).

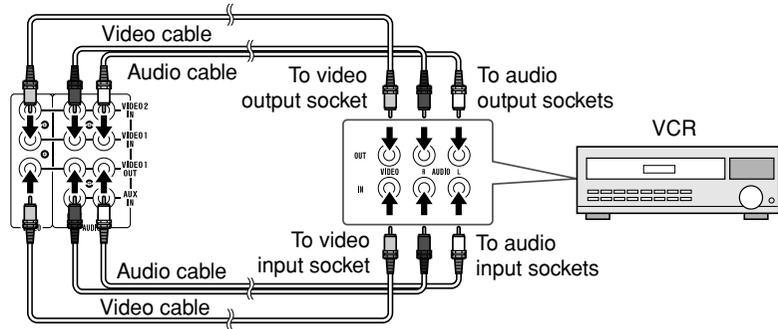
**Optical digital socket cap:**

When using the optical digital socket, remove the cap first. After using the socket, replace the cap.



## Connecting other equipment (continued)

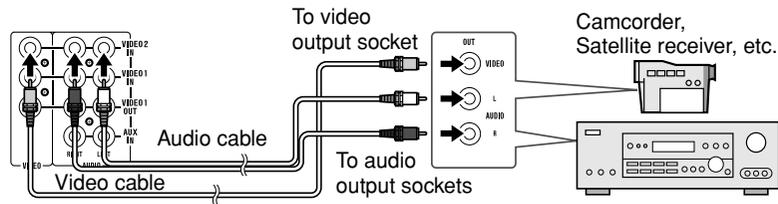
### ■ Connecting the VCR (VIDEO 1)



**Notes:**

- Connect the unit and the TV with a video cable. The image of the equipment connected to the VIDEO 1 IN sockets does not appear on the TV even if it is connected with an S-video cable.
- The image and sound are not emitted from the VIDEO 1 OUT sockets when the equipment is connected to the DVD or VIDEO 1 IN sockets. If connected to the VIDEO 2 IN sockets, they are emitted from the VIDEO 1 OUT sockets. If connected to the AUX IN sockets or whilst in the tuner mode, only the sound is emitted.

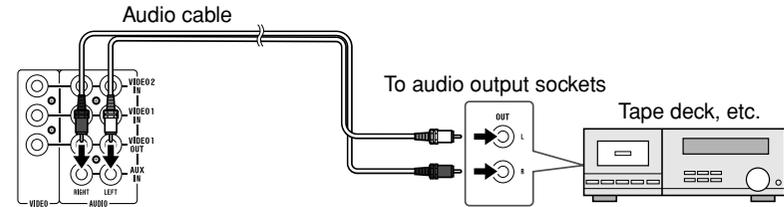
### ■ Connecting the camcorder, satellite receiver, etc. (VIDEO 2)



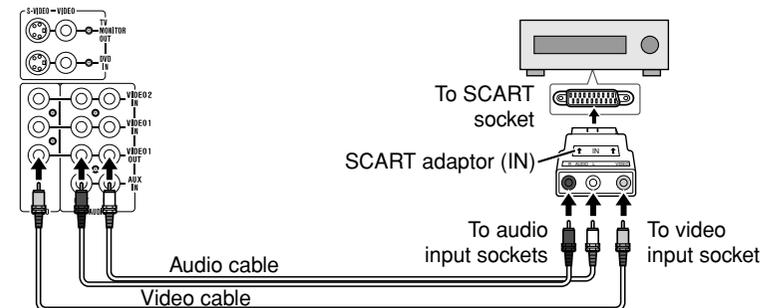
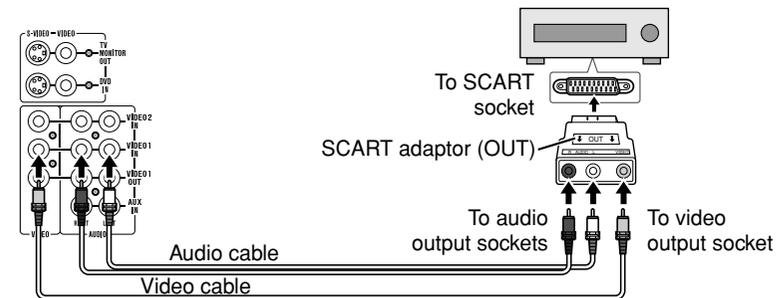
**Note:**

Connect the unit and the TV with a video cable. The image of the equipment connected to the VIDEO 2 IN sockets does not appear on the TV even if it is connected with an S-video cable.

### ■ Connecting the tape deck, etc. (AUX)



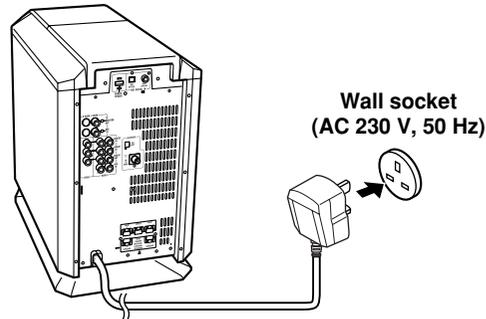
### ■ Connection example using a SCART adaptor



# Connecting to the AC socket

## ■ Plugging in the main unit

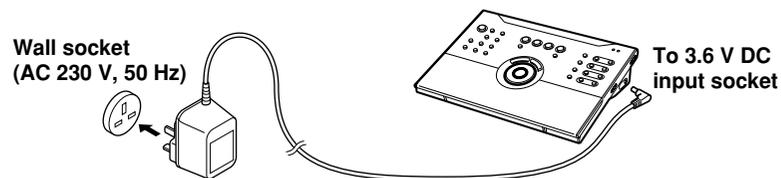
After all connections are made, plug in the unit.



### Note:

Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.

## ■ Plugging in the remote control

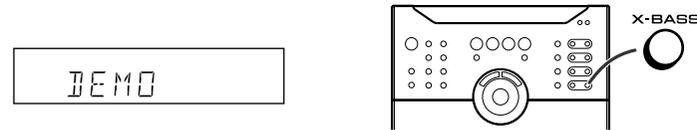


### Notes:

- You can operate the remote control with batteries (not supplied) in areas where the AC adaptor lead cannot reach (see page 16).
- Remove the AC adaptor from the AC socket if the unit will not be in use for a prolonged period of time.
- Use only the supplied AC adaptor. Another adaptor may cause an electric shock or fire.
- If it is necessary to replace the AC adaptor, replace it with the same type (RADPA8005BGZZ) which is shown on page 3.

## ■ Demonstration mode

The first time the unit is plugged in, the unit will enter the demonstration mode. You will see words scroll.



### To cancel the demonstration mode:

When the unit is in the power stand-by mode (demonstration mode), press the X-BASS button. The demonstration mode will be cancelled and the display will disappear.

### To return to the demonstration mode:

When the unit is in the power stand-by mode, press the X-BASS button again.

### Note:

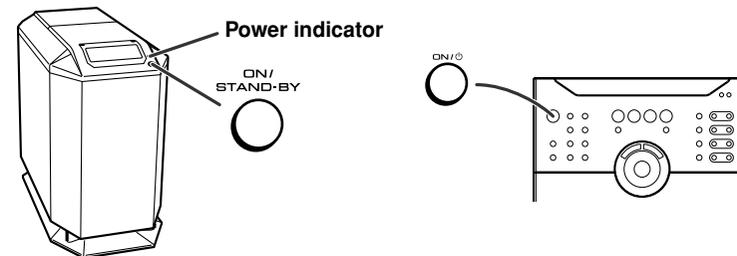
When the power is on, the X-BASS button can be used to select the extra bass mode (see page 23).

## ■ To turn the power on

Press the ON/STAND-BY button on the main unit or the ON/⏻ (STAND-BY) button on the remote control.

### To set the unit to stand-by mode:

Press the ON/STAND-BY button on the main unit or the ON/⏻ (STAND-BY) button on the remote control again.



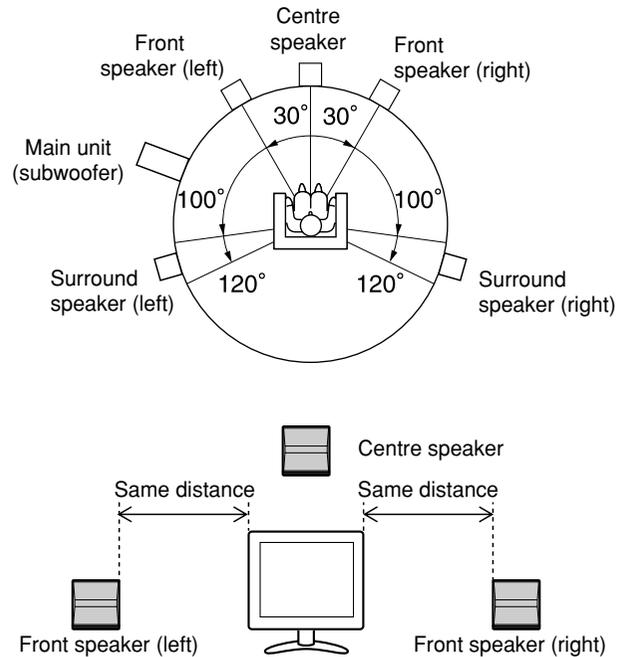
### Notes:

- For the operation range and direction of the remote control, see page 16.
- When turning on the power right after it is set to the stand-by mode, wait a few seconds.

# Placing the speaker system

The best surround effect will be achieved by placing each speaker at the same distance from the listening position.

It is recommended to arrange the speakers as shown below.



## Notes:

- Place the TV halfway between the front speakers.
- It is recommended that the centre speaker be placed near the television.
- Place the surround speakers at a position just above the height of your ears.

The supplied speakers may be placed beside or near the TV as they are magnetically shielded. However, colour variation may occur, depending on the type of the TV.

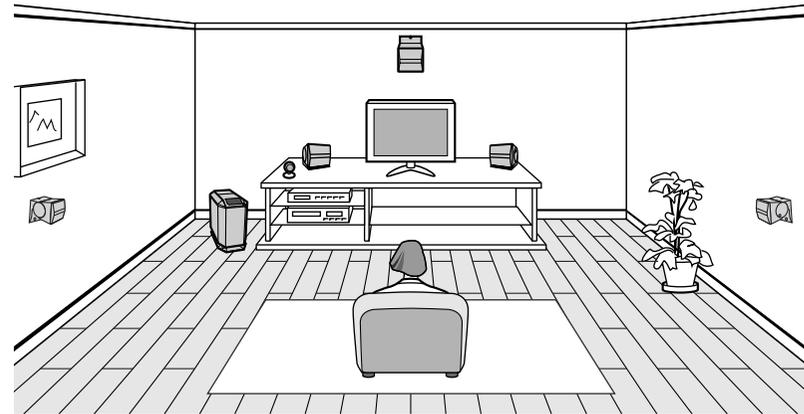
## If colour variation occurs...

Turn off the TV (from the power switch).  
After 15 - 30 minutes, turn the TV on again.

## If the colour variation is still present...

Move the speakers further away from the TV.  
Refer to the user's manual of the TV for details.

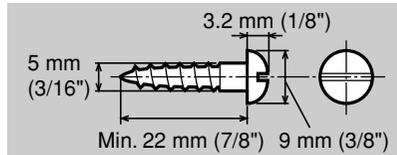
## Example of speaker locations:



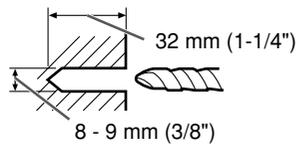
# Installing the speakers on the wall

Front, centre and surround speakers can be mounted on the wall and their angle can be adjusted. Each speaker needs 3 screws to be mounted (not supplied).

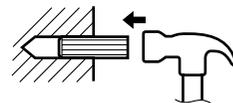
The design of the speakers allows them to be hung on the wall. Be sure to use the type and size of the screw that are shown.



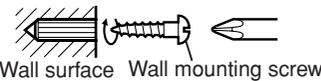
**1 Make a hole in the wall using a drill.**



**2 Drive a wall mount plug into the hole using a hammer. Drive the wall mount plug in until it is flush with the wall surface.**

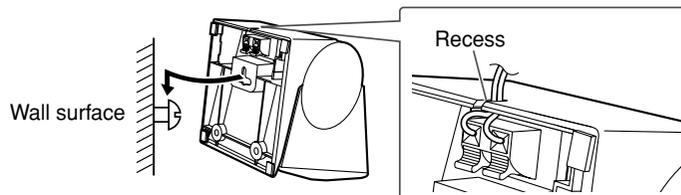


**3 Drive one screw into the wall mount plug for each speaker.**



- Make sure that both the screw and the wall can support a load of 20 kg (45 lbs.).
- Drive the screw, so the screw head extends about 3.5 mm (9/64") out from the wall.

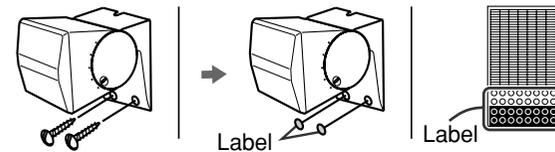
**4 Install the speaker on the wall by inserting the screw head into the slot on the back of the speaker.**



Set the speaker lead in the recess, preventing it from being caught between the wall and the speaker.

**5 Raise the speaker the most upward. (Refer to "Changing the speaker angle" for details.)**

**6 Drive two screws into the wall.**



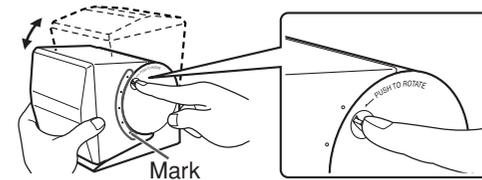
Use the round labels for hiding mounting screws.

**7 Perform steps 1 - 6 to mount other speakers.**

## Changing the speaker angle:

Whilst holding down the angle adjusting lever, move the speaker to the marking and then release the lever.

The speaker angle can be adjusted in 5 levels.



## Caution:

- Check the stability of the ceiling or wall fully. Sharp is not liable for accidents caused by insufficient stability of the ceiling or wall, or improper mounting.
- The speaker may fall due to unstable mounting. If you need any assistance, contact the dealer you purchased the system from.
- The following may cause personal injury or speaker damage.
  - Applying any other load to the fittings than the speaker.
  - Modification or change of the fittings.
  - Stepping on or hanging from the speakers. Especially pay attention to small children.

# Preparing the remote control

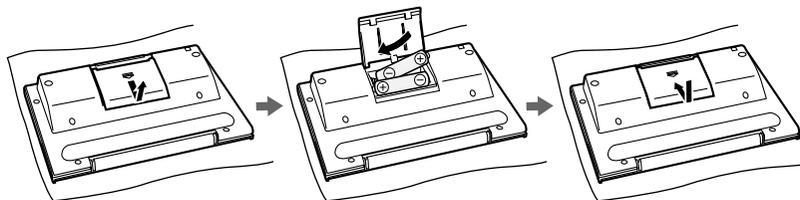
## ■ Battery installation

You can operate the remote control with batteries in areas where the AC power lead cannot reach.

Use 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar).

Batteries are not included.

- 1 Turn the remote control over and place it on a soft cloth.
- 2 Open the battery cover.
- 3 Insert the batteries according to the direction indicated in the battery compartment.  
When inserting or removing the batteries, push them towards the ⊖ battery terminals.
- 4 Close the cover.



### Precautions for battery use:

- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit is not to be used for long periods of time. This will prevent potential damage due to battery leakage.

### Caution:

- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Installing the batteries incorrectly may cause the unit to malfunction.

### Notes concerning use:

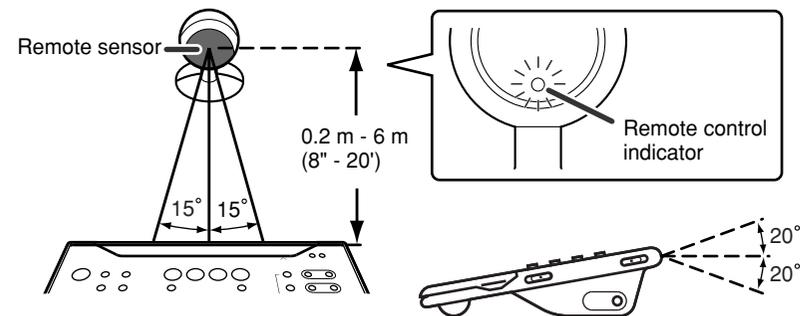
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter on the remote control and the remote control sensor with a soft cloth.
- Keep the remote control away from moisture, heat, shock, and vibrations.

## ■ Test of the remote control

Point the remote control directly at the remote sensor.

### The remote control can be used within the range shown below:

- Press the ON/⏻ (STAND-BY) button. Does the power turn on? Now, you can enjoy your system.
- When the signal is received, the remote control indicator will flash. Whilst in the dimmer mode (page 23), it will not flash or light.

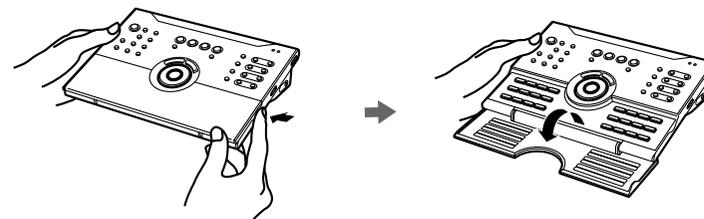


### Note:

Exposing the remote sensor to strong light may interfere with operation. Change the lighting or the direction of the remote control sensor.

## ■ How to open the remote control cover

To access the Memory 1/2 buttons, open the remote control cover.

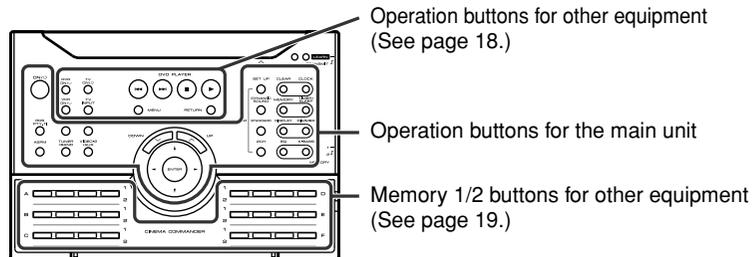


### Note:

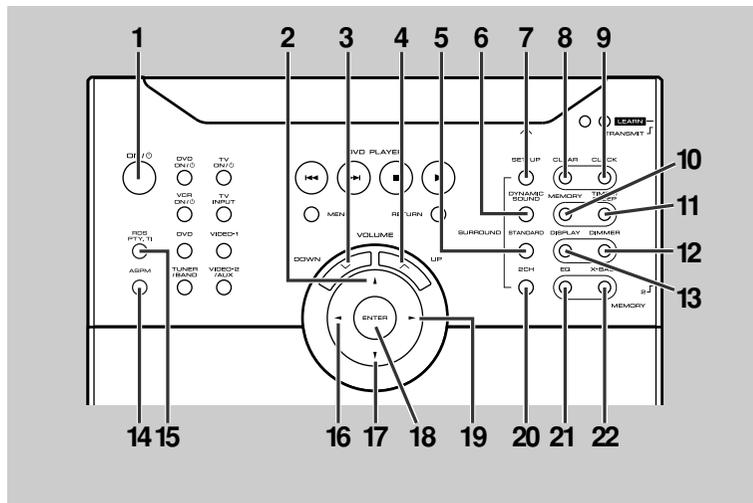
You can control the DVD, VCR, etc. with this remote control (see page 19).

# Operation buttons on the remote control

This remote control allows you to operate the main unit and other Sharp equipment. By memorising remote control operations (learn function), you can operate various equipment.



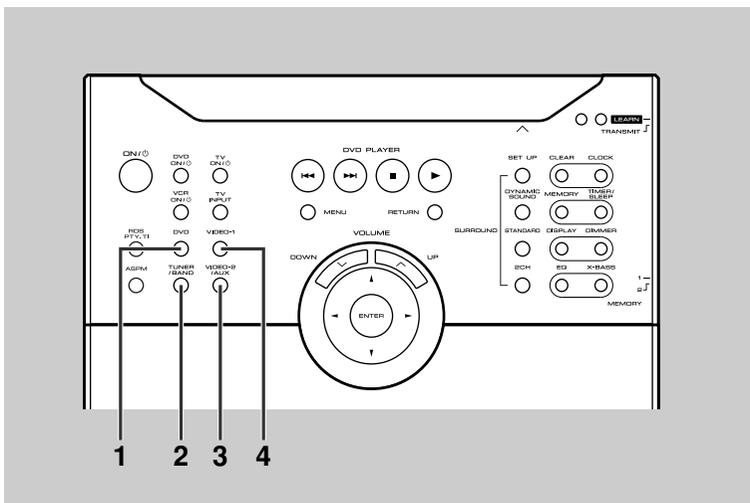
## ■ Operation buttons for the main unit



- 1 **ON/OFF (STAND-BY)**  
Sets the power to "ON" or "STAND-BY".
- 2 **▲**  
Changes the settings of time, tuner, timer/sleep operations, and speakers.
- 3 **VOLUME ▼**  
Decreases the volume.
- 4 **VOLUME ▲**  
Increases the volume.
- 5 **STANDARD**  
Sets the sound mode to "STANDARD".
- 6 **DYNAMIC SOUND**  
Switches the dynamic sound.
- 7 **SET UP**  
Changes the speaker setting.
- 8 **CLEAR**  
Deletes the tuner pre-selections.
- 9 **CLOCK**  
Sets or displays the clock time.
- 10 **MEMORY**  
Presents the tuner.
- 11 **TIMER/SLEEP**  
Sets the power to "ON" or "STAND-BY" at the desired time.
- 12 **DIMMER**  
Adjusts the brightness of the main unit display.
- 13 **DISPLAY**  
Switches the TV display or selects the RDS display mode.
- 14 **ASPM**  
Searches the new RDS stations.
- 15 **RDS PTY.TI**  
Searches the specifying programme RDS stations.
- 16 **◀**  
Changes the settings of tuner and speakers.
- 17 **▼**  
Changes the settings of time, tuner, timer/sleep operations, and speakers.
- 18 **ENTER**  
Validates the settings of time, timer/sleep operations, and speakers.
- 19 **▶**  
Changes the settings of tuner and speakers.
- 20 **2CH**  
Switches the sound mode to "VIRTUAL" or "STEREO".
- 21 **EQ**  
Changes the tone setting.
- 22 **X-BASS**  
Adjusts the bass or activates/deactivates the demonstration mode.

## Operation buttons on the remote control (continued)

### ■ Switching the operation buttons for the main unit



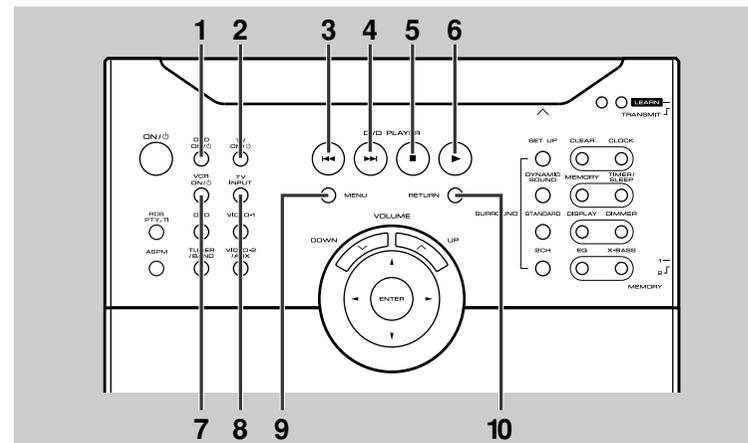
- 1 DVD**  
Used when the unit is set to DVD. Switch the setting according to the connected sound source by pressing it repeatedly.



- 2 TUNER/BAND**  
Selects the tuner function or switches the frequency band.
- 3 VIDEO-2/AUX**  
Selects the "VIDEO-2" or "AUX" mode.
- 4 VIDEO-1**  
Selects the "VIDEO-1" mode.

### ■ Operation buttons for other equipment

The remote control is set at the factory to operate the Sharp's DVD, TV and VCR. To operate Sharp products or other companies' equipment that cannot be controlled by the default remote control, you can memorise their remote control operations (learn function) (see page 20).



- 1 DVD ON/OFF (STAND-BY)**  
Sets the DVD power to "ON" or "STAND-BY".
- 2 TV ON/OFF (STAND-BY)**  
Sets the TV power to "ON" or "STAND-BY".
- 3 ⏮**  
Skips DVD chapters.
- 4 ⏭**  
Skips DVD chapters.
- 5 ■**  
Stops the DVD player.
- 6 ▶**  
Plays back the DVD.
- 7 VCR ON/OFF (STAND-BY)**  
Sets the VCR power to "ON" or "STAND-BY".
- 8 TV INPUT**  
Switches the TV input.
- 9 MENU**  
Displays the DVD menu.
- 10 RETURN**  
Goes back to the previous screen.

## ■ Memory 1/2 buttons for other equipment

### Memory 1 buttons:

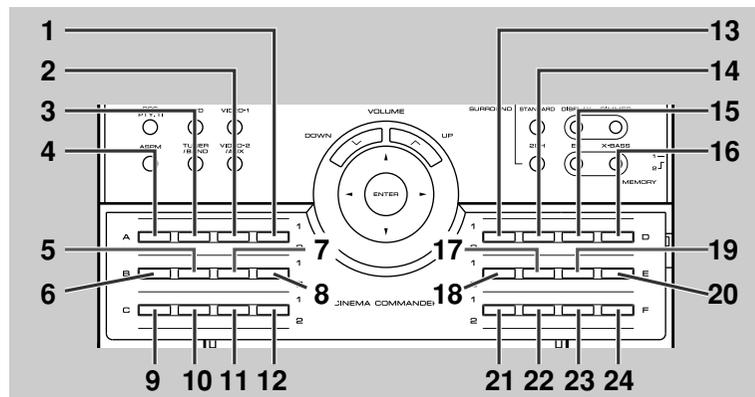
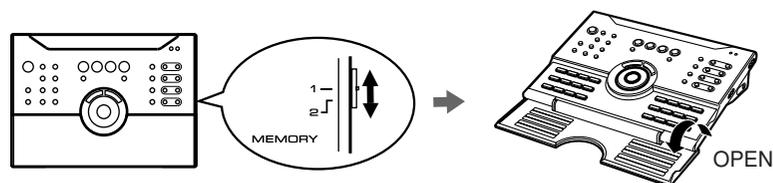
The remote control is set at the factory to operate the Sharp's DVD, TV and VCR. To operate Sharp products or other companies' equipment that cannot be controlled by the default remote control, you can memorise their remote control operations (learn function) (see page 20).

Set the MEMORY 1/2 selector switch to MEMORY 1 to use the Memory 1 buttons.

### Memory 2 buttons:

No functions are stored at the factory setting. Memorise the remote control signals (learn function) of your equipment before use (see page 20).

Set the MEMORY 1/2 selector switch to MEMORY 2 to use the Memory 2 buttons.



### Initial setting for Memory 1 buttons:

- 1 **TV/VCR**  
Switches the input to TV or VCR.
- 2 **VCR CH ▲**  
Switches up the VCR channels.
- 3 **TV VOL ▲**  
Turns up the TV volume.
- 4 **TV CH ▲**  
Switches up the TV channels.
- 5 **TV VOL ▼**  
Turns down the TV volume.
- 6 **TV CH ▼**  
Switches down the TV channels.
- 7 **VCR CH ▼**  
Switches down the VCR channels.
- 8 **VCR II**  
Pauses VCR.
- 9 **VCR ◀◀**  
Rewinds the VCR rapidly.
- 10 **VCR ▶▶**  
Advances the VCR rapidly.
- 11 **VCR ■**  
Stops the VCR.
- 12 **VCR ▶**  
Plays the VCR.
- 13 **AUDIO**  
Switches the DVD sound.
- 14 **SET UP**  
Changes the DVD settings.
- 15 **▲**  
Selects the DVD menu.
- 16 **DISPLAY**  
Switches the DVD display.
- 17 **▼**  
Selects the DVD menu.
- 18 **SUB**  
Switches the subtitle of a DVD.
- 19 **ENTER**  
Validates the menu.
- 20 **▶**  
Selects the DVD menu.
- 21 **ANGLE**  
Switches the angle of the DVD images.
- 22 **ZOOM**  
Zooms the DVD images.
- 23 **▼**  
Selects the DVD menu.
- 24 **TOP**  
Displays the top menu of the DVD.

For details, refer to the operation manual attached to the other equipment.

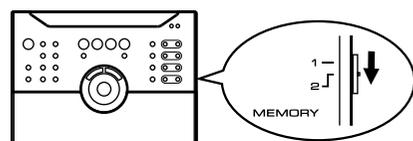
# Memorising the remote control buttons

You can assign only one function to each button. If you assign two functions to the button, the newer one will be memorised (learn function).

## ■ Memorising operations in the Memory 2 buttons for other equipment

The same buttons are used for both Memory 1 and 2 operations. To store signals in Memory 1 buttons, set the MEMORY 1/2 selector switch to MEMORY 1, and for Memory 2 buttons, set the switch to MEMORY 2.

### 1 Set the MEMORY 1/2 selector switch to MEMORY 2.



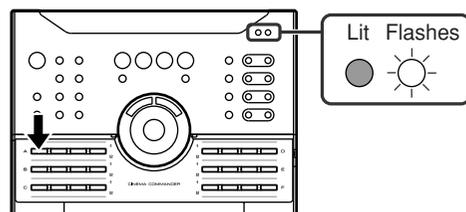
### 2 Move the LEARN/TRANSMIT selector switch to LEARN.

The red learn indicator will light up. Though the red and green learn indicators light up alternately after approx. 15 seconds, you can go on to the next step.

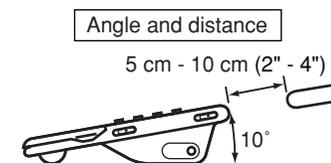


### 3 Press down the desired button on the remote control for 2 seconds or more.

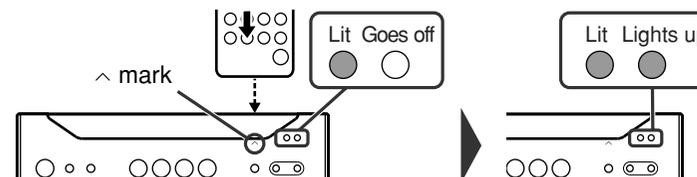
The green learn indicator will flash (the red indicator remains lit).



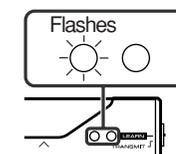
### 4 Within 10 seconds, press down for more than 2 seconds the desired button on the remote control supplied with other equipment to send the signal to the ^ marking.



When the signal is sent to the remote control of the unit, the green indicator will go off. When memorisation is completed, it will light up.



If the signal is not memorised correctly, the red learn indicator will flash. Perform the operations from step 3 again.



### 5 Repeat steps 3 and 4 to memorise other buttons.

### 6 After memorisation is completed, move the LEARN/TRANSMIT selector switch to TRANSMIT.

You can use the remote control.

#### Notes:

- You cannot store all the button operations by pressing only one button on the remote control of other equipment. Memorise them one by one.
- After storing operation is completed, check that other equipment works correctly with the remote control.
- Some functions cannot be memorised depending on other equipment.

**Memorising operations in the Memory 1 buttons for other equipment:**

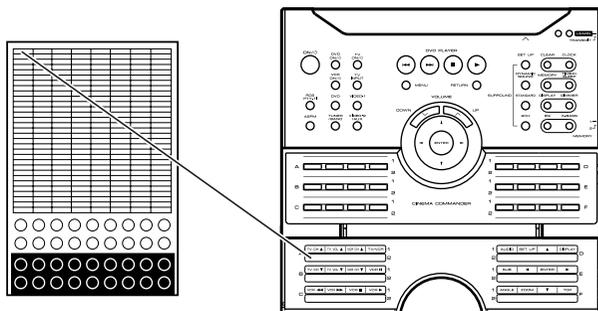
Set the MEMORY 1/2 selector switch to MEMORY 1 and perform steps 2 - 6 in "Memorising operations in the Memory 2 buttons for other equipment".

**Note:**

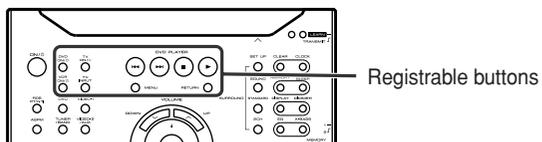
If a new function is memorised, the default operation on the button will be cleared.

**Using the supplied labels:**

Main features are already printed on the labels. Write in other operations as you prefer.

**Memorising operations in the operation buttons for other equipment:**

- 1 Move the LEARN/TRANSMIT selector switch to LEARN.
- 2 Press down the desired button on the remote control for 2 seconds or more.



- 3 Perform steps 4 - 6 in "Memorising operations in the Memory 2 buttons for other equipment".

**■ Initialising the remote control buttons**

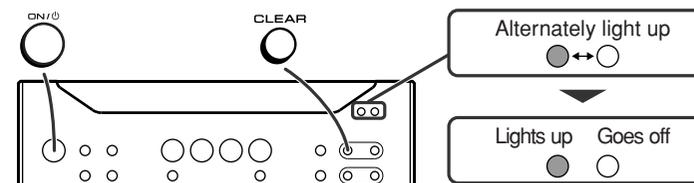
You can delete memorised functions and restore the buttons to the factory settings.

**1 Move the LEARN/TRANSMIT selector switch to LEARN.**

The red learn indicator will light up. Though the red and green learn indicators light up alternately after approx. 15 seconds, you can go on to the next step.

**2 Press the ON/⏻ (STAND-BY) and CLEAR buttons simultaneously for more than 3 seconds.**

Initialisation is completed when the red and green learn indicators light up alternately and then the red learn indicator lights up.

**3 Move the LEARN/TRANSMIT selector switch to TRANSMIT.**

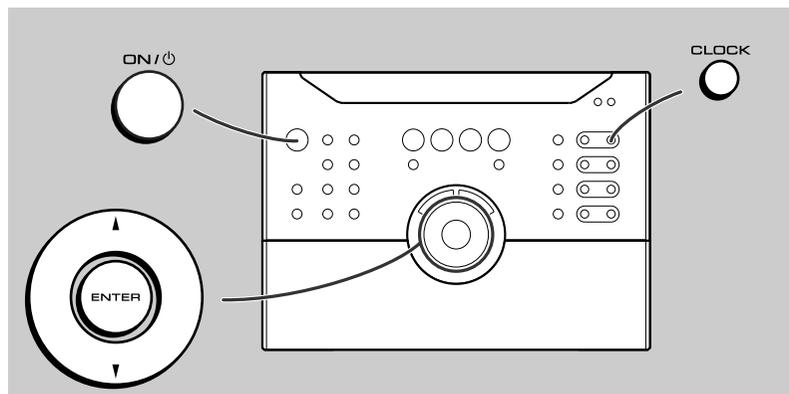
- You can use the remote control.
- Operation buttons and Memory 1 buttons for other equipment will return to the factory setting.

**Caution:**

You cannot initialise only one button. If initialisation is performed, all the stored functions will be cleared.

# Setting the clock

By setting the unit on time, you can use it both as a clock and as a timer.



In this example, the clock is set for the 24-hour (0:00) display.

**1 Press the ON/⏻ (STAND-BY) button to turn the power on.**

**2 Press the CLOCK button and within 5 seconds, press the ENTER button.**



**3 Press the ▲ or ▼ button to select the 24-hour or 12-hour display and then press the ENTER button.**



"0:00" → The 24-hour display will appear. (0:00 - 23:59)  
 "AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)  
 "AM 0:00" → The 12-hour display will appear. (AM 0:00 - PM 11:59)

Note that this can only be set when the unit is first installed or it has been reset (see page 41).

**4 Press the ▲ or ▼ button to adjust the hour and then press the ENTER button.**



- Press the ▲ or ▼ button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

**5 Press the ▲ or ▼ button to adjust the minutes and then press the ENTER button.**



- Press the ▲ or ▼ button once to advance the time by 1 minute. Hold it down to change the time in 5-minute intervals.
- The hour will not advance even if minutes advance from "59" to "00".
- The clock starts from "0" second. (Seconds are not displayed.)

### To confirm the time display:

Press the CLOCK button.

The time display will appear for about 5 seconds.

When the unit is set to DVD or VIDEO, the time also appears on the TV screen.



### Note:

The "CLOCK" or time will flash at the push of the CLOCK button when the AC power supply is restored after a power failure or unplugging the unit. Readjust the clock.

### To readjust the clock:

Perform "Setting the clock" from step 1. If the time display is flashing, step 3 (or selecting the 24-hour or 12-hour display) will be skipped.

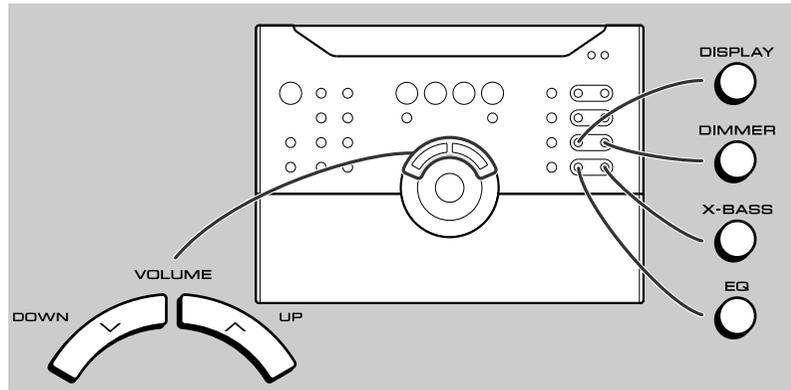
### To change the 24-hour or 12-hour display:

- 1 Clear all the programmed contents. [Refer to "Clearing all the memory (reset)" on page 41 for details.]
- 2 Perform "Setting the clock" from the beginning.

### Note:

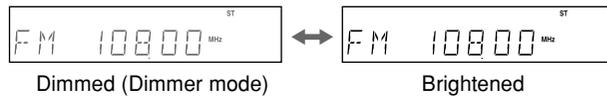
Setting the clock cancels the demonstration mode automatically.

# Display control



## ■ To change the display brightness (2 levels)

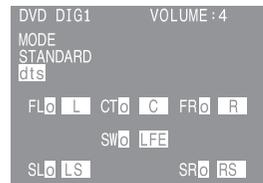
You can switch the brightness of the main unit display by pressing the DIMMER button.



## ■ TV screen display

By pressing the DISPLAY button whilst in the DVD or VIDEO mode, you can check the status or setting on the TV screen.

Example: TV screen display



### Caution:

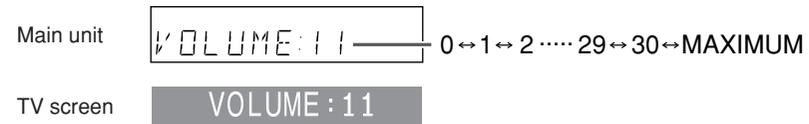
This unit can display on the TV its current speaker and mode settings when in the DVD or VIDEO mode, but not if connected to the TV via an S-video cable. This function is only available via the Video cable connection.

# Sound control

HT-CN300H

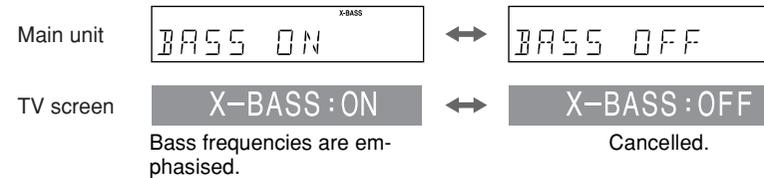
## ■ Volume control

Press the VOLUME ^ button to increase the volume and the VOLUME v button for decreasing.



## ■ Bass control

When the X-BASS button is pressed, the unit will enter the extra bass mode which emphasises the bass frequencies. To cancel the extra bass mode, press the X-BASS button.



## ■ Equaliser

When the EQ button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQ button repeatedly until the desired sound mode appears.

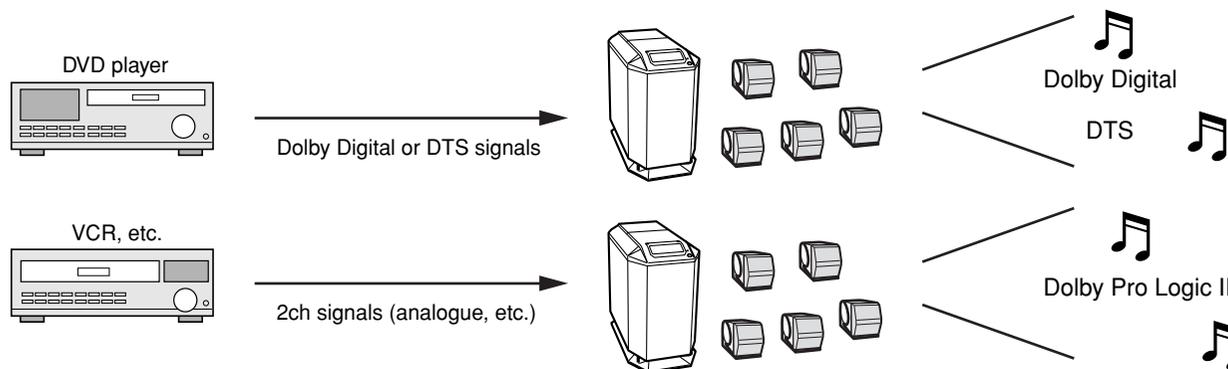
FLAT	The sound is not modified.
ROCK	Bass and treble are emphasised.
POPS	Bass and treble are slightly emphasised.
JAZZ	Treble is cut a little.
CLASSIC	Treble is reduced a lot.
VOCAL	Vocals (midrange tones) are emphasised.

### Note:

Bass control and equaliser are enabled only when the sound mode is set to "STEREO" or "VIRTUAL" (see page 26).

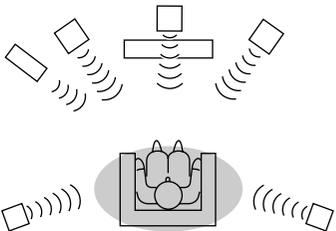
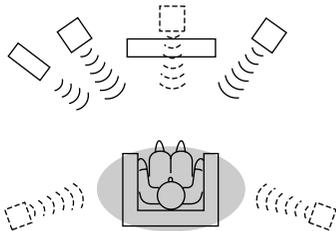
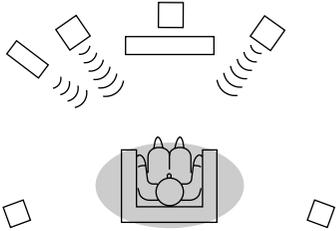
# Enjoy Surround Sound (sound mode)

The sound effect is activated when the Dolby Digital and DTS signals below are sent from the digitally connected DVD player, etc. When using other 2ch systems (analogue, etc.), Dolby Pro Logic II function is activated.



Types of surround	Source	Contents	Switchable sound mode
<b>Dolby Digital</b>	 Disc with this trademark	One of the digital audio systems for theatrical use. You can enjoy the stereophonic effect in the home theatre system. The disc recorded in the Dolby Digital system is recognised by this unit automatically when it is played back.	Standard (Dynamic sound)
			Virtual
			Stereo
<b>DTS (Digital Theater Systems)</b>	 Disc with this trademark	One of the digital audio systems for theatrical use. As the sound quality is emphasised, you can enjoy the realistic sound effect in the home theatre system. The disc recorded in the DTS system is recognised by this unit automatically when it is played back.	Standard (Dynamic sound)
			Virtual
			Stereo
<b>Dolby Pro Logic II</b>	Stereo-recorded discs and videotapes	When playing a stereo-recorded disc or video tape, it is recognised by the Dolby Pro Logic II function and the sound is changed to the 5.1ch digital surround sound automatically. A more natural sound effect can be achieved.	Standard (Dynamic sound)
			Virtual (*)
			Stereo (*)

If (\*) is selected, the "PRO LOGIC II" indicator goes out.

<b>Acoustic effect</b>	
<p><b>Standard</b></p> <p>The maximum of 5.1ch surround sound is reproduced to provide three-dimensional effect. This unit automatically emits the 5.1ch sound according to the recorded audio signal.</p> <p>"STANDARD" appears on the display of the unit and TV screen.</p>	
<p><b>Dynamic sound</b></p> <p>You can enjoy normal surround sound with various scenes.</p> <p><b>MOVIE:</b> The bass level is increased for powerful sound effect.</p> <p><b>MUSIC:</b> You can enjoy lively sound by producing the articulate sound.</p> <p><b>NIGHT:</b> Soft but powerful sound is achieved even at low volumes.</p>	
<p><b>Virtual</b></p> <p>Although no sound is heard from the surround speakers, you can still enjoy 2.1ch surround sound as if they exist. It sounds as if speakers are also placed in .</p> <p>"VIRTUAL" appears on the display of the unit and TV screen.</p>	
<p><b>Stereo</b></p> <p>You can enjoy the great acoustic effects of the front speakers and subwoofer.</p> <p>"STEREO" appears on the display of the unit and TV screen.</p>	

### Dolby Digital and DTS:

The input signal is recognised automatically and the unit's indicator appears.

### Dolby Pro Logic II:

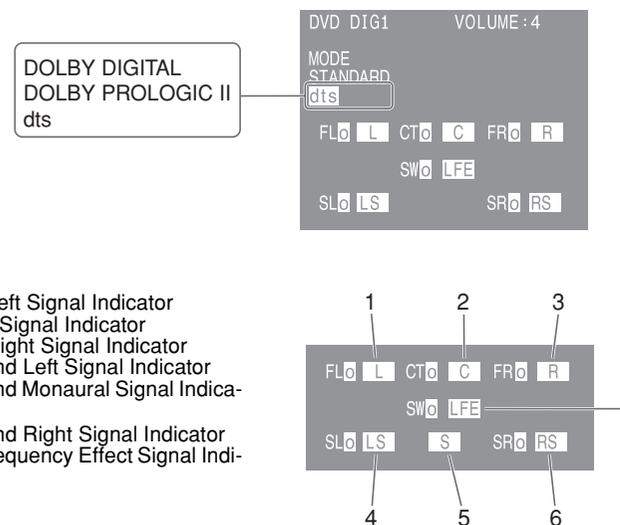
- The indicator appears on the display of the main unit when the 2ch signals are entered to extend them to the 5.1ch surround sound.
- Even the 2ch sound recorded with Dolby Digital will be extended to the 5.1ch.

### Notes:

- When the surround mode is set to "STANDARD", the sound of monaural signals is heard only from the centre speaker.
- When the surround mode is set to "VIRTUAL", the same monaural sound is reproduced in both the front right and front left channels.

### TV screen display:

The surround types are displayed also on the TV screen only when the unit is set to DVD or VIDEO (see page 23).



### Note:

The settings appear only when the TV is connected with a video cable. They will not appear when the TV is connected with an S-video cable.

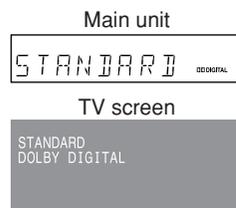
## Enjoy Surround Sound (sound mode) (continued)

### ■ Sound mode

#### To enjoy in the standard mode

During playback, press the **STANDARD** button.

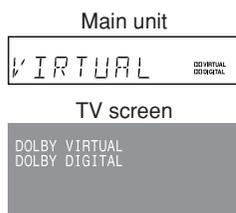
"STANDARD" appears on the display of the unit and TV screen.



#### To enjoy in the virtual mode

During playback, press the **2CH** button repeatedly to select "VIRTUAL".

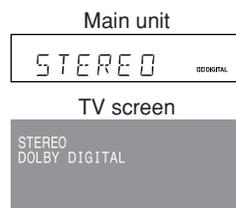
"VIRTUAL" appears on the display of the unit and TV screen.



#### To enjoy in the stereo mode

During playback, press the **2CH** button repeatedly to select "STEREO".

"STEREO" appears on the display of the unit and TV screen.



#### Notes:

- In the standard mode, you can change the dynamic sound to "MOVIE", "MUSIC", or "NIGHT".
- Some discs are recorded at the sampling frequency of 96 kHz. When the signals of such discs are sent, the playback sound may not be heard from this unit.
- The settings appear only when the TV is connected with a video cable. They will not appear when the TV is connected with an S-video cable.

### ■ To enjoy with dynamic sound

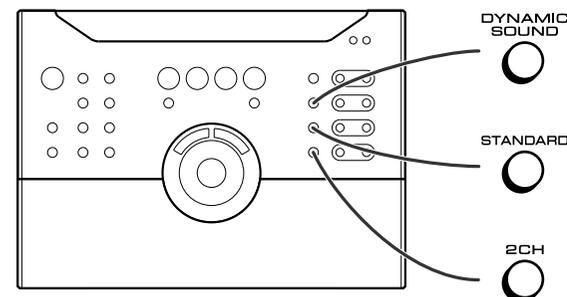
During playback, press the **DYNAMIC SOUND** button.

Each press of this button changes the mode in the order of "MOVIE" → "MUSIC" → "NIGHT".

<b>MOVIE</b>	The bass level is increased for powerful sound effect.
<b>MUSIC</b>	You can enjoy lively sound by producing the articulate sound.
<b>NIGHT</b>	Soft but powerful sound is achieved even at low volumes.

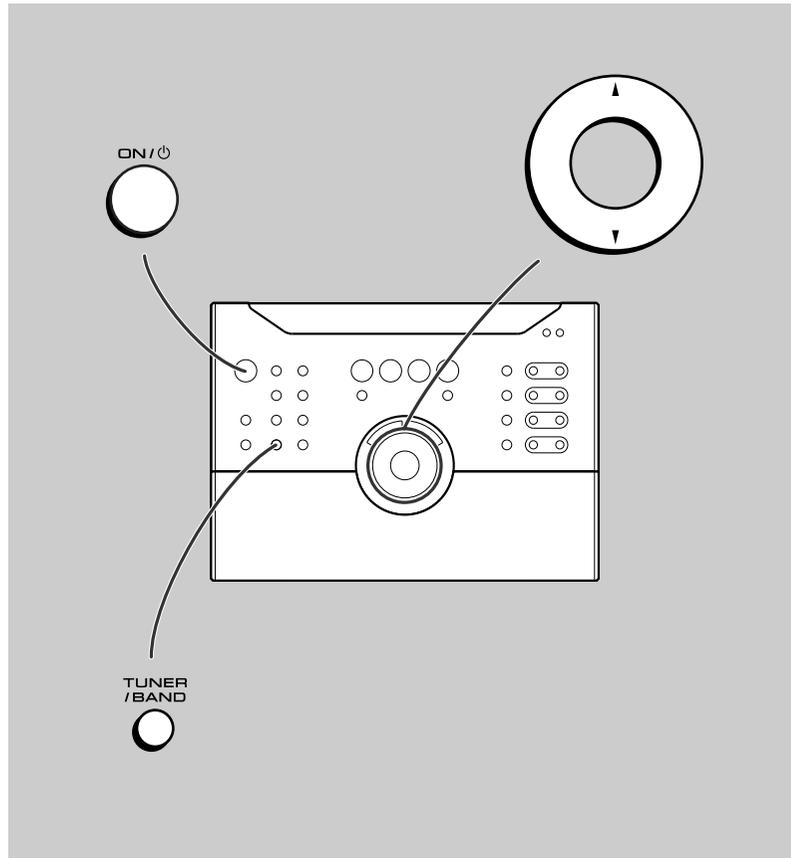
#### To restore the standard surround sound:

Press the **STANDARD** button.



# Listening to the radio

HT-CN300H



- 1 Press the ON/⏻ (STAND-BY) button to turn the power on.**
- 2 Press the TUNER/BAND button repeatedly to select the desired frequency band (FM ST, FM or AM).**

- 3 Press the ▲ or ▼ button to tune in to the desired station.**

### Manual tuning:

Press the ▲ or ▼ button as many times as required to tune in to the desired station.

### Auto tuning:

When the ▲ or ▼ button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

### Notes:

- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop auto tuning, press the ▲ or ▼ button again.
- When an RDS (Radio Data System) station is tuned in, the frequency will be displayed first, and then the RDS indicator will light. Finally, the station name will appear.
- Full auto tuning can be achieved for RDS stations "ASPM", see page 31.

### To receive an FM stereo transmission:

Press the TUNER/BAND button to display the "ST" indicator.

- "∞" will appear when an FM broadcast is in stereo.

FM stereo mode indicator



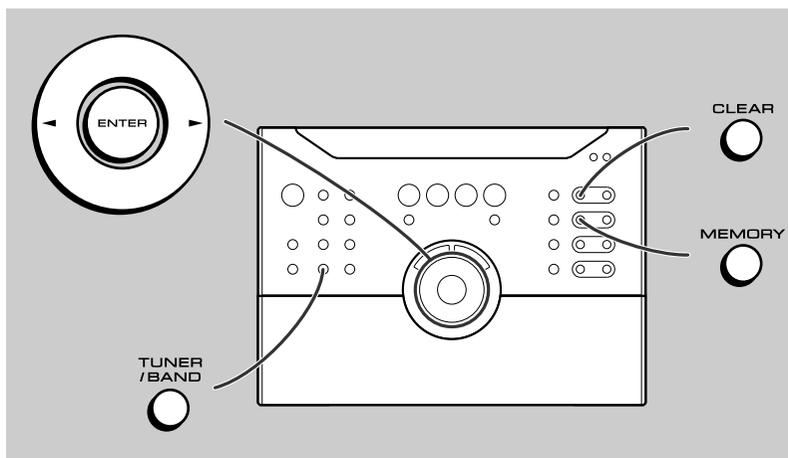
FM stereo receiving indicator

- If the FM reception is weak, press the TUNER/BAND button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

### After use:

Press the ON/⏻ (STAND-BY) button to enter the power stand-by mode.

# Listening to a memorised station



## ■ Memorising a station

You can store 40 AM and FM stations in memory and recall them at the push of a button. (Preset tuning)

**1** Perform steps 1 - 3 in "Listening to the radio" on page 27.

**2** Press the MEMORY button to enter the preset tuning saving mode.

**3** Within 30 seconds, press the ◀ or ▶ button to select the preset channel number.

- Store the stations in memory, in order, starting with preset channel 1.
- When "P" is displayed, a station has already been stored in memory.

**4** Within 30 seconds, press the MEMORY button to store that station in memory.

If the "MEMORY" and preset number indicators go out before the station is memorised, repeat the operation from step 2.

**5** Repeat steps 1 - 4 to set other stations, or to change a preset station.

When a new station is stored in memory, the station previously memorised will be erased.

### Note:

The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead disconnection.

## ■ To recall a memorised station

Press the ◀ or ▶ button to select the desired station.

## ■ To scan the preset stations

The stations saved in memory can be scanned automatically. (Preset memory scan)

**1** Press the ◀ or ▶ button for more than 0.5 seconds.

The preset number will flash and the programmed stations will be tuned in sequentially, for 5 seconds each.

**2** Press the ◀ or ▶ button again when the desired station is located.

## ■ To erase entire preset memory

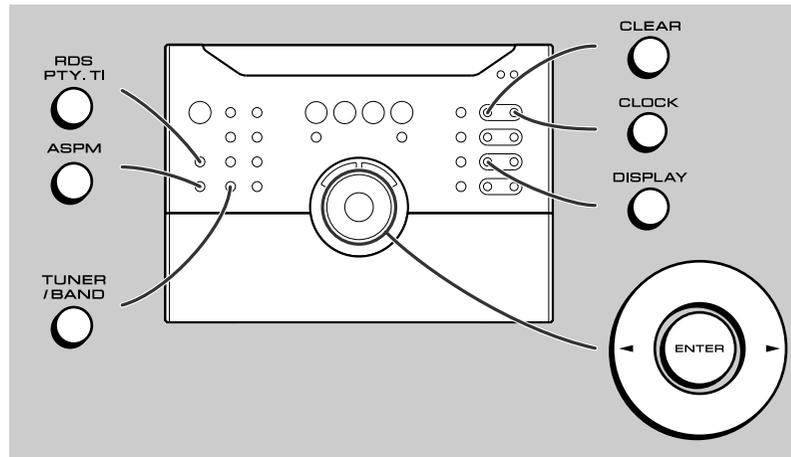
- 1 Press the TUNER/BAND button.
- 2 Hold the CLEAR button down for 3 seconds or more.
- 3 Whilst "CLEAR" is flashing, press the ENTER button.

# Using the Radio Data System (RDS)

RDS is a broadcasting service which a growing number of FM stations provide. These FM stations send additional signals along with their regular programme signals. They send their station names, and information about the type of programme such as sports or music, etc.

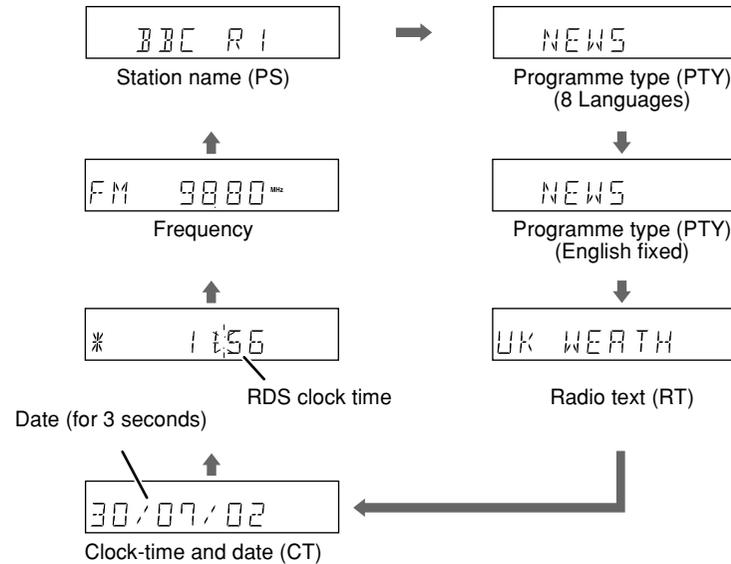
When tuned to an RDS station, "RDS" and the station name will be displayed. "TP" (Traffic Programme) will appear on the display when the received broadcast carries traffic information, and "TA" (Traffic Announcement) will appear whilst a traffic information is on air. "PTYI" (Dynamic PTY Indicator) will appear whilst the Dynamic PTY station is received. "RT" (Radio Text) will appear whilst the unit receives the Radio text data. "CT" (Clock Time) will appear whilst the unit receives the RDS CT data.

You can control the RDS by using the remote control only.



## Information provided by RDS

Each time the DISPLAY button is pressed, the display will switch as follows:



When you are tuning in to a station other than an RDS station or to an RDS station which sends weak signal, the display will change in the following order:



## Using the Radio Data System (RDS) (continued)

### Descriptions of the PTY (Programme Type) codes, TP (Traffic Programme) and TA (Traffic Announcement).

You can search for and receive the following PTY, TP and TA signals.

<b>NEWS</b>	Short accounts of facts, events and publicly expressed views, reportage and actuality.
<b>AFFAIRS</b>	Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including debate, or analysis.
<b>INFO</b>	Programmes whose purpose is to impart advice in the widest sense.
<b>SPORT</b>	Programme concerned with any aspect of sport.
<b>EDUCATE</b>	Programme intended primarily to educate, of which the formal element is fundamental.
<b>DRAMA</b>	All radio plays and serials.
<b>CULTURE</b>	Programmes concerned with any aspect of national or regional culture, including language, theatre, etc.
<b>SCIENCE</b>	Programmes about the natural sciences and technology.
<b>VARIED</b>	Used for mainly speech-based programmes usually of light-entertainment nature, not covered by other categories. Examples include: quizzes, panel games, personality interviews.
<b>POP M</b>	Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.
<b>ROCK M</b>	Contemporary modern music, usually written and performed by young musicians.
<b>EASY M</b>	Current contemporary music considered to be "easy-listening", as opposed to Pop, Rock or Classical, or one of the specialised music styles, Jazz, Folk or Country. Music in this category is often but not always, vocal, and usually of short duration.
<b>LIGHT M</b>	Classical music for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.
<b>CLASSICS</b>	Performances of major orchestral works, symphonies, chamber music, etc., and including Grand Opera.
<b>OTHER M</b>	Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples.
<b>WEATHER</b>	Weather reports and forecasts and meteorological information.
<b>FINANCE</b>	Stock Market reports, commerce, trading, etc.
<b>CHILDREN</b>	For programmes targeted at a young audience, primarily for entertainment and interest, rather than where the objective is to educate.

<b>SOCIAL</b>	Programmes about people and things that influence them individually or in groups. Includes: sociology, history, geography, psychology and society.
<b>RELIGION</b>	Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence and ethics.
<b>PHONE IN</b>	Involving members of the public expressing their views either by phone or at a public forum.
<b>TRAVEL</b>	Features and programmes concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use for announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used.
<b>LEISURE</b>	Programmes concerned with recreational activities in which the listener might participate. Examples include, Gardening, Fishing, Antique collecting, Cooking, Food & Wine, etc.
<b>JAZZ</b>	Polyphonic, syncopated music characterised by improvisation.
<b>COUNTRY</b>	Songs which originate from, or continue the musical tradition of the American Southern States. Characterised by a straightforward melody and narrative story line.
<b>NATION M</b>	Current Popular Music of the Nation or Region in that country's language, as opposed to International 'Pop' which is usually US or UK inspired and in English.
<b>OLDIES</b>	Music from the so-called "golden age" of popular music.
<b>FOLK M</b>	Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people.
<b>DOCUMENT</b>	Programme concerned with factual matters, presented in an investigative style.
<b>TEST</b>	Broadcast when testing emergency broadcast equipment or receivers.
<b>ALARM !</b>	Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature.
<b>NONE</b>	No programme type (receive only).
<b>TP</b>	Broadcasts which carry traffic announcements.
<b>TA</b>	Traffic announcements are being broadcast.

## ■ Using the Auto Station Programme Memory (ASPM)

Whilst in the ASPM operation mode, the tuner will automatically search for new RDS stations. Up to 40 stations can be stored.

If you have already stored some stations in memory, the number of new stations you can store will be less.

### 1 Press the TUNER/BAND button to select the FM band.



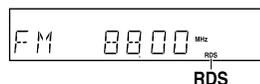
### 2 Press and hold down the ASPM button for at least 3 seconds.



- 1 After "ASPM" has flashed for about 4 seconds, scanning will start (87.50 - 108.00 MHz).



- 2 When an RDS station is found, "RDS" will appear for a short time and the station will be stored in memory.



- 3 After scanning, the number of stations stored in memory will be displayed for 4 seconds, and then "END" will appear for 4 seconds.



### To stop the ASPM operation before it is complete:

Press the ASPM button whilst it is scanning for stations.  
The stations which are already stored in memory will be kept there.

### Notes:

- If the same station is broadcasting on different frequencies, the strongest frequency will be stored in memory.
- Any station which has the same frequency as one stored in memory will not be stored.
- If 40 stations have already been stored in memory, the scan will be aborted. If you want to redo the ASPM operation, erase the preset memory.
- If no stations have been stored in memory, "END" will appear for about 4 seconds.
- If the RDS signals are very weak, station names may not be stored in memory.

### To erase all of the contents of preset memory:

- 1 Press the TUNER/BAND button.
  - 2 Hold the CLEAR button down for 3 seconds or more.
  - 3 Whilst "CLEAR" is flashing, press the ENTER button.
- After performing this operation, all of the preset memory information will be erased.

### To store a station name again if the wrong name was stored in memory:

It may be impossible to store station names in memory using the ASPM function if there is lots of noise or if the signal is too weak. In this case, perform as follows.

- 1 Press the ◀ or ▶ button to check whether the names are correct.
  - 2 If you find a wrong name during receiving the station, wait until the correct name will be displayed. And then press the MEMORY button.
  - 3 Within 30 seconds, press the MEMORY button whilst the preset channel number is flashing.
- The new station name has been stored in memory correctly.

### Notes:

- The same station name can be stored in different channels.
- In a certain area or during certain time periods, the station names may temporarily be different.

## Using the Radio Data System (RDS) (continued)

### ■ To recall stations in memory

#### To specify programmed types and select stations (PTY search):

You can search a station by specifying the programme type (news, sports, traffic programme, etc. ... see page 30) from the stations in memory.

#### 1 Press the TUNER/BAND button to select the FM.



#### 2 Press the RDS PTY.TI button.



"PTY TI" and "SELECT" will appear alternately for about 6 seconds.

#### 3 Within 6 seconds, press the ◀ or ▶ button to select the programme type.

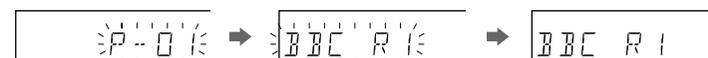


Each time the button is pressed, the programme type will appear. If the button is held down for more than 0.5 seconds, the programme type will appear continuously.

#### 4 Whilst the selected programme type is flashing (within 6 seconds), press the RDS PTY.TI button again.



After the selected programme type has been lit for 2 seconds, "SEARCH" will appear, and the search operation will start.



#### Notes:

- If the display has stopped flashing, start again from step 2. If the unit finds a desired programme type, the corresponding channel number will flash for about 4 seconds, and then the station name will flash for 7 seconds, which will remain lit.
- If you want to listen to the same programme type of another station, press the RDS PTY.TI button whilst the channel number or station name is flashing. The unit will look for the next station.
- If no station can be found, "NOTFOUND" will appear for 4 seconds.

#### If you select the traffic programme:

If you select the traffic programme (TP) in step 4, "TP" will appear. (This does not mean that you can listen to the traffic information at that time.)

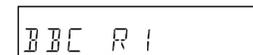
When a traffic information is broadcast, "TA" will appear.

#### To specify station names and select stations manually:

You can select a station by specifying the name (BBC R1, BBC R2, etc.) from the stations stored in memory.

Before starting this operation, you must store one or more station names in memory.

- 1 Press the TUNER/BAND button to select the FM band.
- 2 Press the ◀ or ▶ button to select a desired station.



- 3 The station name will be displayed for 6 seconds. Then the display will change as follows.



## ■ Notes for RDS operation

If any of the following events occur, it does not mean that the unit is faulty:

- "PS", "NO PS" and a station name appear alternately, and the unit does not operate properly.
- If a particular station is not broadcasting properly or a station is conducting tests, the RDS reception function may not work properly.
- When you receive an RDS station whose signal is too weak, information like the station name may not be displayed.
- "NO PS", "NO PTY", "NO RT" or "NO CT" will flash for about 5 seconds, and then the frequency will be displayed.

### Notes for radio text:

- The first 8 characters of the radio text will appear for 4 seconds and then they will scroll across the display.
- If you tune in to an RDS station which is not broadcasting any radio text, "NO RT" will be displayed when you switch to the radio text position.
- Whilst radio text data is received or when the text contents change, "RT" will be displayed.

### Notes for PTY Languages:

- When you press the DISPLAY button after entering the PS (Programme Service), PTY Languages mode will be selected. In this mode, PTY names will be displayed automatically in the local language where an RDS station is located. Eight languages (including English) are available.
- If you tune in to an RDS station which is not broadcasting PTY language data, the PTY name will be displayed in English.
- A PTY name may be displayed in English for a short time, until a signal determining the local PTY language is received.
- PTY languages are also used for the PTY-Search operation at any DISPLAY except PTY English.

## Using the Radio Data System (RDS) (continued)

### ■ To set the internal clock by the RDS time signal

You can set the internal clock using the RDS time signal (RDS CT data). This is useful because the internal clock is set automatically from the time signal sent by an RDS station.

Before setting, select either 24-hour or 12-hour display as shown on page 22.

#### 1 Tune in to an RDS station (when its name is displayed).

#### 2 Press the DISPLAY button to select CT.

(Example: 11:56 on July 30, 2002)

#### 3 Whilst RDS time is displayed, hold down the CLOCK button for at least 3 seconds.

"RDS TIME" and "WAITING" will appear alternately. (They will appear in less than 60 seconds.)

#### 4 After the internal clock has been set, "COMPLETE" will flash for 3 seconds. Then the updated time will be displayed.

Press the CLOCK button to check whether the internal clock is displaying the same time as the RDS clock.

#### Notes:

- When the CLOCK button is pressed whilst the RDS time is displayed, the internal clock is displayed followed by the RDS clock. With this feature, you can compare the time shown. If you have not yet set the clock display mode, "CLOCK" will appear.
- Whilst "NO CT" or "CT" is displayed, the internal clock cannot be set.
- If the signal from a station is weak or noisy, you may not be able to set the internal clock.

#### Note for clock-time and date mode:

When the DISPLAY button is pressed repeatedly to select CT, the data (Day-Month-Year) will be displayed for 3 seconds, and then the RDS clock time display will appear.

The RDS clock time appears with "RDS", so that you will know it is not the internal clock time.

#### Notes:

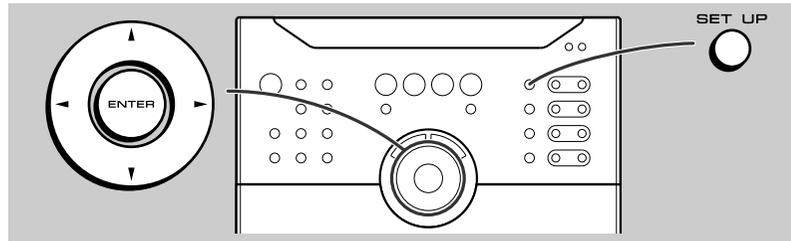
- If you tune in to an RDS station which is not sending clock-time and date (CT data) and you select CT, "NO CT" will be displayed.
- If you are not receiving CT data, even though you are tuned into an RDS station, "CT" will be displayed. The CT data is sent at the top of each minute.
- If an RDS signal is weak or noisy, the clock time may be displayed as "- -" (hyphens) or it may not be displayed correctly.
- You must check the clock's accuracy because the RDS time signal (CT data) may not be correct, depending on the station.
- The data normally changes at midnight, Greenwich Mean Time (G.M.T.), not local time.

# Speaker settings

Speaker settings are displayed on the TV screen only when the unit is set to DVD or VIDEO (see page 23).

**Note:**

The settings appear only when the TV is connected with a video cable. They will not appear when the TV is connected with an S-video cable.



Speaker type	Speaker size	
Front speaker (Left, Right)	F-LARGE	Large diameter
	F-SMALL *	Small diameter
Centre speaker	C-LARGE	Large diameter
	C-SMALL *	Small diameter
	C-NO	OFF
Surround speaker (Left, Right)	S-LARGE	Large diameter
	S-SMALL *	Small diameter
	S-NO	OFF
Subwoofer	SW-YES *	ON
	SW-NO	OFF

(\*) indicates the default setting (recommended for the supplied speakers).

## ■ Speaker size setting

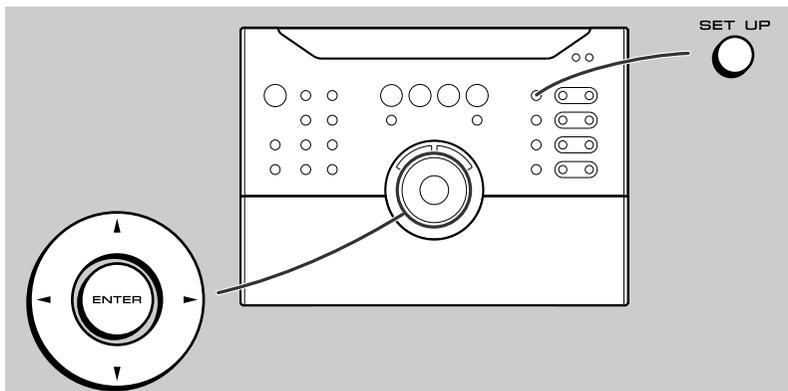
You can change the sizes of the front speakers, centre speaker, and surround speakers, or turn on or off the centre speaker, surround speakers, or subwoofer.

- 1 Press the SET UP button.**
- 2 Within 10 seconds, press the ◀ or ▶ button to select "SP SIZE", and press the ENTER button.**
- 3 Within 10 seconds, press the ◀ or ▶ button to select the desired speaker.**  
The indicators of selected speakers flash.  
TV screen
- 4 Within 10 seconds, press the ▲ or ▼ button to select their sizes.**  
  - To set sizes of other speakers, repeat the operation from step 3.
  - You can complete the setting operation by pressing the SET UP button twice.

**Caution:**

- To set the speaker size, set the sound mode to "STANDARD". In the stereo or virtual mode, only the subwoofer can be set.
- F-SMALL and SW-NO cannot be combined. If the subwoofer is changed to SW-NO whilst the front speakers are set to F-SMALL, they are changed to F-LARGE. When the front speakers are changed to F-SMALL whilst the subwoofer is set to SW-NO, it is changed to SW-YES.

## Speaker settings (continued)



### ■ Speaker delay setting

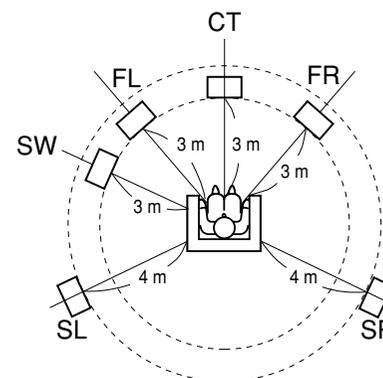
When some of the speakers are at a different distance from the listening point, you can select speaker delay to make it seem as though the speaker distances are the same.

- 1** Press the SET UP button.
  - 2** Within 10 seconds, press the ◀ or ▶ button to select "SP DELAY", and press the ENTER button.
  - 3** Within 30 seconds, press the ◀ or ▶ button to select the desired speaker.
  - 4** Within 30 seconds, press the ▲ or ▼ button to select the distance and press the ENTER button.
- TV screen
- DVD DIG1  
CT 3.0m
- You can change the distance in 0.1 m increments.
  - To set the distance of other speakers, repeat the operation from step 3.
  - You can complete the setting operation by pressing the SET UP button twice.

Speaker type		Adjustable range
FL	Front speaker (Left)	0.1 - 9.0 m
CT	Centre speaker	0.1 - 9.0 m
FR	Front speaker (Right)	0.1 - 9.0 m
SR	Surround speaker (Right)	0.1 - 9.0 m
SL	Surround speaker (Left)	0.1 - 9.0 m
SW	Subwoofer	0.1 - 9.0 m

Initial setting of the distance of all the speakers is 2.0 m.

**Measure the distance between each speaker and the listening position, and set the speaker delay.**



In the above illustration, the front speakers, centre speaker, and subwoofer are positioned at 3 m, and the surround speakers are at 4 m from the listening position. This unit calculates the delay time automatically according to the distance you set, and provide the same effect as if they are placed at the same distance from the listening position.

## ■ Speaker level setting

If sounds from the speakers are uneven, you can equalise them by adjusting the speaker levels.

<b>1</b> Press the SET UP button.
<b>2</b> Within 10 seconds, press the ◀ or ▶ button to select "SP LEVEL", and press the ENTER button.
<b>3</b> Within 10 seconds, press the ◀ or ▶ button to select the desired speaker.
<b>4</b> Within 10 seconds, press the ▲ or ▼ button to adjust the level.

TV screen



DVD DIG1  
FL 0dB

- You can adjust the level at 1 dB intervals.
- To adjust the levels of other speakers, repeat the operation from step 3.
- You can complete the setting operation by pressing the SET UP button twice.

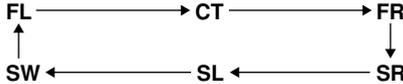
Speaker type		Adjustable range
FL	Front speaker (Left)	- 6 dB – + 6 dB
CT	Centre speaker	- 6 dB – + 6 dB
FR	Front speaker (Right)	- 6 dB – + 6 dB
SR	Surround speaker (Right)	- 6 dB – + 6 dB
SL	Surround speaker (Left)	- 6 dB – + 6 dB
SW	Subwoofer	- 10 dB – + 10 dB

### Note:

Adjust the level of the subwoofer if the sound from it is distorted.

## ■ Test tone

You can check the sound output from the speakers. (If the speaker levels are not equalised, they can be adjusted, too.)

<b>1</b> Press the SET UP button.
<b>2</b> Within 10 seconds, press the ◀ or ▶ button to select "TONE", and press the ENTER button.
The test tone will be heard from each speaker, in order, at about 2-second intervals.
 <pre> graph LR     FL --&gt; CT     CT --&gt; FR     FR --&gt; SR     SR --&gt; SL     SL --&gt; SW     SW --&gt; FL           </pre>
<b>3</b> To finish checking, press the SET UP button twice.

### If the levels are not equal:

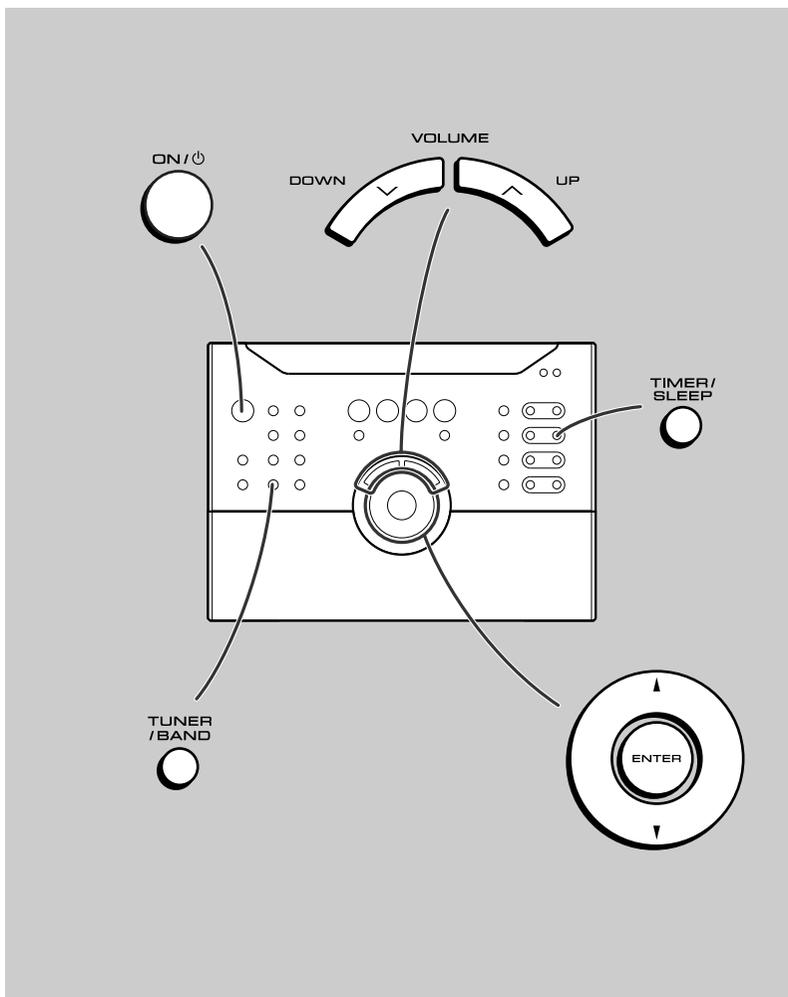
Whilst the test tone sounds, press the ▲ or ▼ to adjust the level. You can select a speaker by pressing the ◀ or ▶ button.

### Note:

If NO (OFF) is selected for a speaker in the speaker size setting, no test tone will be heard from it.

# Timer and sleep operation

Timer operation is possible only when the tuner function is selected.



## ■ Setting the timer

### Before setting timer:

Set the unit on time (page 22).

If it is not on time, you cannot use the timer function.



**1** Press the **ON/⏻** (STAND-BY) button to turn the power on.

**2** Press the **TUNER/BAND** button.

Tune in to the desired station. (See page 27.)

**3** Adjust the volume using the **VOLUME** (∨ or ∧) button.

Do not turn the volume up too high.

**4** Press the **TIMER/SLEEP** button repeatedly until "⌚" is displayed.



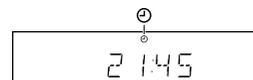
**5** Press the **▲** or **▼** button to specify the hour to start, then press the **ENTER** button.



**6** Press the **▲** or **▼** button to specify the minutes, then press the **ENTER** button.



The unit will enter the timer stand-by mode automatically.



**When the preset time is reached:**

- Playback starts automatically and the volume increases gradually.
- The unit will enter the power stand-by mode one hour after the timer playback starts.

**To reset or change the timer setting:**

Perform "Setting the timer" from the beginning (page 38).

**Cancelling the timer playback:**

Timer is cancelled by turning the power on whilst in the timer stand-by mode.

**Notes:**

- Once the time is set, the setting will be retained until a new time is entered.
- The contents of the setting will be erased if the unit is unplugged or a power failure occurs. In such cases, set the timer again.
- You can select the other source in step 2 of "Setting the timer", but this unit cannot set the timer of other equipment.
- When in the timer stand-by mode, the X-BASS button does not allow you to enter the demonstration mode.

**■ Setting the sleep timer**

You can set the unit to the power stand-by mode at the specified time.

**1 Press the TUNER/BAND button.**

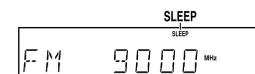
Tune in to the desired station. (See page 27.)

**2 Press the TIMER/SLEEP button repeatedly until "SLEEP" is displayed.****3 Press the ▲ or ▼ button to change the sleep time.**

(Maximum: 3 hours/Minimum: 1 minute)



- 3 hours - 5 minutes → 5-minute intervals
- 5 minutes - 1 minute → 1-minute intervals

**4 Press the ENTER button.**

The sleep timer indicator lights up.

**5 Your system will enter the power stand-by mode automatically after the preset time has elapsed.**

The volume will be turned down 1 minute before the sleep operation finishes.

At that time, you cannot change the volume.

**Note:**

You can select the other source in step 1 of "Setting the sleep timer", but this unit cannot set the sleep timer of other equipment.

**To confirm the remaining sleep time:**

Press the TIMER/SLEEP button.

- The remaining sleep time is displayed for about 5 seconds.
- You can change the remaining sleep time whilst it is displayed by pressing the ENTER button (steps 3 - 4).

**To cancel the sleep operation:**

Press the ON/⏻ (STAND-BY) button whilst the sleep timer is set.

To cancel the sleep timer without setting the unit to the stand-by mode, proceed as follows.

- 1 Press the TIMER/SLEEP button.
- 2 Within 5 seconds, press the ENTER button.
- 3 Press the ▲ or ▼ button to select "SLEEP0:00", and press the ENTER button.

# Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.

If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

## ■ Operation

Symptom	Possible cause	Reference page
When a button is pressed, the unit does not respond.	<ul style="list-style-type: none"> <li>● Set this unit to the power stand-by mode and then turn it back on. If the unit still malfunctions, reset it.</li> </ul>	P. 41
Timer playback does not start.	<ul style="list-style-type: none"> <li>● Is your unit unplugged, or has the power failure occurred? Reset the clock.</li> </ul>	P. 22
The display on the unit is dark.	<ul style="list-style-type: none"> <li>● Press the DIMMER button on the remote control.</li> </ul>	P. 23
The power is not turned on.	<ul style="list-style-type: none"> <li>● Is the unit unplugged?</li> </ul>	P. 13

## ■ Sound

Symptom	Possible cause	Reference page
No sound is heard.	<ul style="list-style-type: none"> <li>● Is the volume level set to "0"?</li> </ul>	P. 23
	<ul style="list-style-type: none"> <li>● Are the speaker wires disconnected?</li> </ul>	P. 8
	<ul style="list-style-type: none"> <li>● Is the speaker size set to NO (OFF)?</li> </ul>	P. 35
	<ul style="list-style-type: none"> <li>● Is other equipment connected properly?</li> </ul>	P. 11
The sounds from speakers are not well balanced.	<ul style="list-style-type: none"> <li>● Are the speaker leads connected to the wrong channels?</li> </ul>	P. 8
	<ul style="list-style-type: none"> <li>● Is each speaker placed at the same distance from the listener?</li> </ul>	P. 14
	<ul style="list-style-type: none"> <li>● Are speakers adjusted to the same level?</li> </ul>	P. 37
Noise is heard during playback.	<ul style="list-style-type: none"> <li>● Move the unit away from any computers or mobile phones.</li> </ul>	—

## ■ TV image

Symptom	Possible cause	Reference page
No images are displayed.	<ul style="list-style-type: none"> <li>● Is TV turned on?</li> </ul>	P. 18
	<ul style="list-style-type: none"> <li>● Is the input of TV switched?</li> </ul>	P. 18
	<ul style="list-style-type: none"> <li>● Is TV connected properly?</li> </ul>	P. 11
Settings are not displayed on the TV screen.	<ul style="list-style-type: none"> <li>● The settings will not appear when TV is connected with an S-video cable. Verify on the main unit display.</li> </ul>	P. 23
Interference or noise occurs on the TV image.	<ul style="list-style-type: none"> <li>● Is the unit placed near TV with internal aerial? Use an external aerial.</li> </ul>	—
Colour variation interference shows on the TV image.	<ul style="list-style-type: none"> <li>● Are the speakers placed in their proper distances? Turn off the TV and turn it back on after 15 - 30 minutes. If the situation persists, move the speakers further away from the TV.</li> </ul>	P. 14

## ■ Tuner

Symptom	Possible cause	Reference page
Radio makes unusual noise consecutively.	<ul style="list-style-type: none"> <li>● Move the unit away from any computers or mobile phones.</li> </ul>	—
	<ul style="list-style-type: none"> <li>● Is the FM aerial or AM loop aerial placed properly? Move the aerial away from the AC power lead if located near.</li> </ul>	P. 9

## Remote control

Symptom	Possible cause	Reference page
The remote control does not operate properly.	● Is the remote control plugged in?	P. 13
	● Is the battery polarity respected?	P. 16
	● Are the batteries dead?	—
	● Is the distance or angle incorrect?	P. 16
	● Are there any obstructions in front of the remote control sensor?	—
	● Is the remote control sensor connected to the main unit?	P. 9
	● Is the LEARN/TRANSMIT selector switch set to LEARN?	P. 20
	● Is the remote control sensor exposed to strong light (inverter fluorescent light, direct sunlight, etc.)?	P. 16
The unit cannot be turned on with the remote control.	● Is the remote control for another equipment used simultaneously?	—
	● Is the AC power lead of the unit plugged in?	P. 13
	● Is the remote control plugged in?	P. 13
Signals are not memorised in operation buttons for other equipment.	● Are the batteries inserted?	P. 16
	● Is the remote control plugged in?	P. 13
	● Is the angle or the distance correct for memorisation?	P. 20

## If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

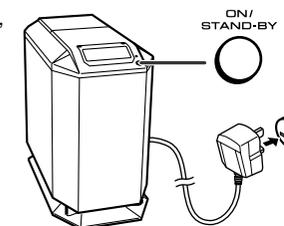
If such a problem occurs, do the following:

### Clearing all the memory (reset): Main unit

- 1 Unplug the unit.
- 2 Whilst holding down the ON/STAND-BY button, plug in the AC power lead. Release the ON/STAND-BY button when the "CLEAR AL" is displayed.

CLEAR AL

- 3 Press the ON/STAND-BY button again to turn the power on.

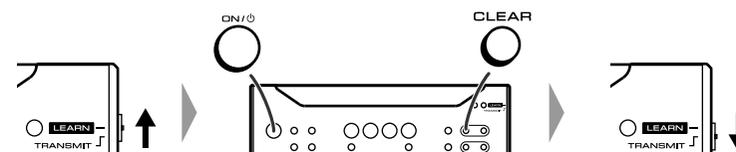


### Caution:

This operation will erase all data stored in memory and restore various settings to the initial status (default).

### Clearing all the memory (initialisation): Remote control

- 1 Move the LEARN/TRANSMIT selector switch to LEARN. The red learn indicator will light up. Though the red and green learn indicators light up alternately after approx. 15 seconds, you can go on to the next step.
- 2 Press the ON/⏻ (STAND-BY) and CLEAR buttons simultaneously for more than 3 seconds. Initialisation is completed when the red and green learn indicators light up alternately and then the red learn indicator lights up.
- 3 Move the LEARN/TRANSMIT selector switch to TRANSMIT.



### Caution:

This operation will reset all data stored in memory to the initial status (default).

## Error indicators and warnings

When you load an unplayable disc or fail to perform operations properly, the following messages are displayed on the unit and the TV screen.

Display	Meaning
	<ul style="list-style-type: none"> <li>The surround system does not operate properly.</li> <li>Place the unit away from noise source or plug the AC power lead to another AC socket. (*)</li> </ul>
	<ul style="list-style-type: none"> <li>The amplifier is defective or the surround system does not operate properly.</li> <li>Place the unit away from noise source or plug the AC power lead to another AC socket. (*)</li> </ul>

(\*): Should the same message appear even if the unit is unplugged and plugged in or is set to the stand-by mode and on again, contact your local dealer where you purchased the unit.

## Maintenance

### ■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.



## Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

### ■ General

<b>Power source</b>	AC 230 V, 50 Hz
<b>Power consumption</b>	Power on: 195 W Power stand-by: 0.5 W (*)
<b>Dimensions</b>	Width: 230 mm (9-1/8") Height: 377 mm (14-7/8") Depth: 400 mm (15-3/4")
<b>Weight</b>	11.5 kg (25.4 lbs.)
<b>Terminals</b>	Front speakers, Centre speaker and Surround speakers: 6 ohms Monitor output: S-video/video Video output (Video 1): RCA type Audio output (Video 1): RCA type (L/R) Video input (Video 1): RCA type Audio input (Video 1): RCA type (L/R) Audio input (Auxiliary): RCA type (L/R) Video input (Video 2): RCA type S-video input (DVD): S-terminal Video input (DVD): RCA type Audio input (Video 2): RCA type (L/R) Digital input (DVD): Optical Digital input (DVD): Coaxial

(\*) This power consumption value is obtained when the demonstration mode is cancelled in the power stand-by mode. Refer to page 13 to cancel the demonstration mode.

## ■ Amplifier

<b>Output power</b>	(2 ch) Front speakers: RMS: 60 W (30 W + 30 W) (10 % T.H.D., 1 kHz) Subwoofer: RMS: 30 W (10 % T.H.D., 100 Hz) (Surround) Front speakers: RMS: 60 W (30 W + 30 W) (10 % T.H.D., 1 kHz) Centre speaker: RMS: 30 W (10 % T.H.D., 1 kHz) Surround speakers: RMS: 60 W (30 W + 30 W) (10 % T.H.D., 1 kHz) Subwoofer: RMS: 30 W (10 % T.H.D., 100 Hz)
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## ■ Tuner

<b>Frequency range</b>	FM: 87.5 - 108 MHz AM: 522 - 1,620 kHz
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## ■ Front/Centre/Surround speakers

<b>Type</b>	Full Range Speaker System (Magnetic shield) 80 mm (3-1/8") Speaker
<b>Maximum input power</b>	60 W
<b>Rated input power</b>	30 W
<b>Impedance</b>	6 ohms
<b>Dimensions</b>	Width: 104 mm (4-1/8") Height: 110 mm (4-3/8") Depth: 123 mm (4-7/8")
<b>Weight</b>	0.8 kg (1.8 lbs./each)

## ■ Subwoofer

<b>Type</b>	Subwoofer System (Magnetic shield) 160 mm (6-1/4") Woofer
<b>Maximum input power</b>	60 W
<b>Rated input power</b>	30 W
<b>Impedance</b>	6 ohms



## TERMS OF GUARANTEE

Sharp Electronics (UK) Ltd. ("Sharp") guarantees to provide for the repair, or at its option the replacement, of this product subject to the conditions listed below:-

1. This guarantee shall only apply to faults which are due to inferior workmanship or materials. It does not cover faults or damage caused by accident, misuse, fair wear and tear, neglect, tampering with the product, or repair other than by a Service Facility appointed by Sharp.
2. As this product is intended for private domestic use only, the guarantee will not apply if the product is used in the course of a business, trade or profession.
3. To benefit from this guarantee, any fault which occurs must be notified to Sharp, or its appointed Service Facility within one year from the date this product was purchased. Proof of purchase must be provided.
4. The guarantee does not cover carriage costs, jewelled styli, audio tapes, compact discs or batteries.
5. In the unlikely event of this product requiring repair, please contact the supplier from whom it was purchased. Where this is not possible, please contact the Sharp Customer Information Centre on the telephone number given below.
6. No person has any authority to vary the terms or conditions of this guarantee.
7. This guarantee is offered as an additional benefit to your statutory rights, and does not affect these rights in any way.

If you have any difficulty operating this product, or would like information on other Sharp products, please telephone the Sharp Customer Information Centre on the number given below.

Sharp Customer Information Centre - Telephone 08705 274277  
(or (01) 676 0648 if telephoning from Ireland)

# SHARP

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