SHARP

HOME THEATER WITH DVD
HOME THEATER CON DVD

MODEL
MODELO

HT-X1W

OPERATION MANUAL
MANUAL DE MANEJO

DOLBY DIGITAL PRO LOGIC II

DIGITAL dts SURROUND

DVD VIDEO™

COMPACT disc SUPER VIDEO

COMPACT disc DIGITAL VIDEO

COMPACT disc DIGITAL AUDIO

MP3

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.8w

PROGRESSIVE SCAN

ENGLISH

Please refer to pages E-1 to E-66.

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ESPAÑOL

Consulte las páginas S-1 a S-66.

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05/2/2   HT-X1W(LA)_FR.fm   TINSZA048AWZZ

HT-X1W

General Information

Introduction

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-X1W Home Theater with DVD consisting of HT-X1W (main unit and subwoofer/amplifier unit), CP-X1WF (front speakers), CP-X1WC (centre speaker) and CP-X1WS (surround speakers).

Special notes

"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

NOTE
● Supply of this product does not convey a license nor imply any right to distribute content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), revenue-generating streaming applications (via Internet, intranets and/or other networks), other revenue-generating content distribution systems (pay-audio or audio-on-demand applications and the like) or on revenue-generating physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit http://mp3licensing.com.

MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

Copyright Information:
● Unauthorised copying, broadcast, public display, transmission, public performance and rental (regardless of whether or not such activities are for profit) of disc contents are prohibited by law.
● This system is equipped with copy protection technology that causes substantial degradation of images when the contents of a disc are copied to a videotape.

Copy Protection:
This unit supports Macrovision copy protection.
On DVD discs that include a copy protection code, if the contents of the DVD disc are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, 4,819,098 and 4,907,093 licensed for limited viewing uses only.

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E-1
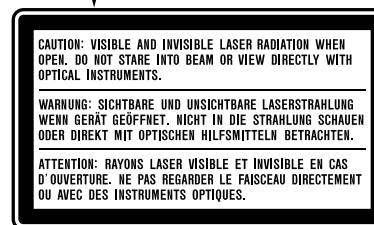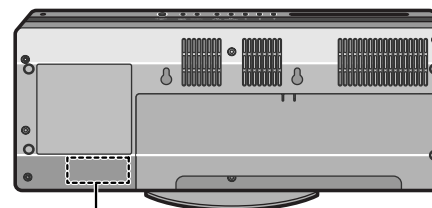
05/2/2   HT-X1W(LA)E1.fm   TINSZA048AWZZ

Warning:

● 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 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.
● To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION

● This product is classified as a CLASS 1 LASER product.
● Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
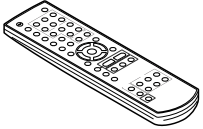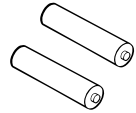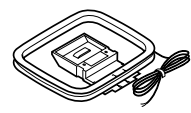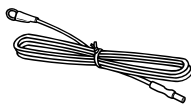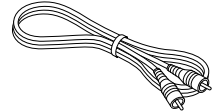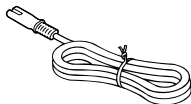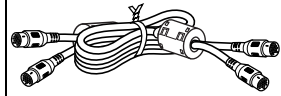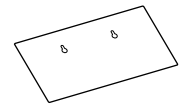
As the laser beam used in this unit is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Laser Diode Properties
Material: AlGaAs/AlGaInP
Wavelength: 785 nm/650 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

WARNUNG: SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN GERÄT GEÖFFNET. NICHT IN DIE STRAHLUNG SCHAUEN ODER DIREKT MIT OPTISCHEN HILFSMITTELN BETRACHTEN.

ATTENTION: RAYONS LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES INSTRUMENTS OPTIQUES.

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Accessories

Please confirm that the following accessories are included.

			White (for left front speaker) approx. 5 m (16 feet)	Red (for right front speaker) approx. 5 m (16 feet)
Remote control × **1**	**"AAA" size battery (UM-4, R03, HP-16 or similar)** × **2**	**AM loop aerial** × **1**		
			Blue (for left surround speaker) approx. 15 m (49 feet)	**Grey** (for right surround speaker) approx. 15 m (49 feet)
FM aerial × **1**	**Video cable** × **1**	**AC power lead** × **1**		
			Green (for centre speaker) approx. 5 m (16 feet)	
System connection cable × **1**	**Pattern paper for main unit** × **1**	**Button name label** × **1**	**Speaker connection lead** × **5**	

Caution:
Do not use the supplied AC power lead for other equipment. Fire or electric shock may result.

Note:
Only the above accessories are included.

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Contents

General Information

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Precautions

■ General

● Please ensure that the equipment is positioned in a well venti-lated 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.

Main unit

10 cm (4")   10 cm (4")   15 cm (6")

10 cm (4")

10 cm (4")   10 cm (4")   15 cm (6")

10 cm (4")

Subwoofer/amplifier unit

10 cm (4")   10 cm (4")

15 cm (6")

10 cm (4")
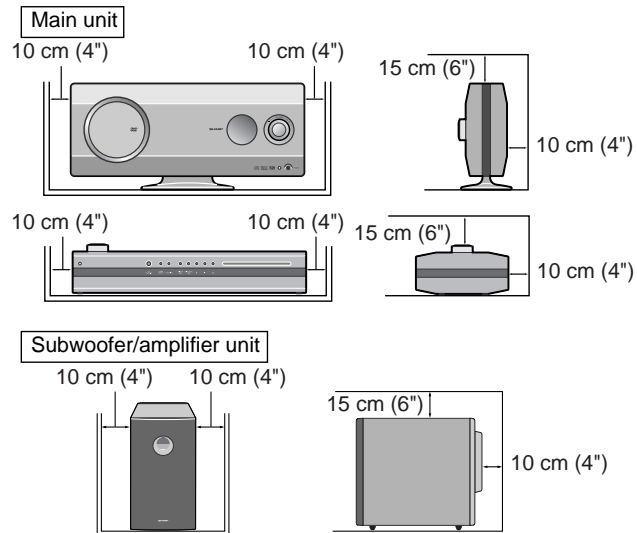
● Use the system on a firm, level surface free from vibration.
● Keep the system away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equip-ment (home computers, facsimiles, etc.) which generate electri-cal noise.
● Do not place anything on top of the components.
● Do not expose the system 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 subwoofer/amplifier 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 components of the system.
● Attention should be drawn to the environmental aspects of bat-tery disposal.
● This system should only be used within the range of 5°C - 35°C (41°F - 95°F).

Warning:
The voltage used must be the same as that specified by this sys-tem. Using this product with a higher voltage other than that speci-fied is dangerous and may result in a fire or other types of accident, causing damage. SHARP will not be held responsible for any dam-age resulting from the use of this system with a voltage other than that specified.

■ Volume control
The sound level at a given volume setting depends on speaker effi-ciency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on and listen to music at moderate levels.

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Description of discs

■ Types of playable discs

The unit can play back discs bearing any of the following marks:

DVD				
DVD-Video Disc	DVD-R	DVD-RW	DVD+R	DVD+RW
	R 4.7	R W	DVD+R	DVD+ReWritable
	Recorded in the video mode (*1) (*2)		Recorded in the video mode (*1)	

(*1) Some discs may not play properly due to the status of the equipment used for recording, characteristics of the discs, scratches, dirt, or dirty optical pickup lens.

(*2) DVD-RW discs recorded in VR mode (Video Recording format) cannot be played back.

Some DVD may not function as described in the manual. See the disc jacket for restrictions.

Video CD	
Super video CD	Video CD

CD		
Audio CD	Audio CD-R	Audio CD-RW
	Recordable	ReWritable
Or CDV (*1)	CD-R/RW recorded in MP3/WMA/JPEG format (*2)	

(*1) Only the audio on the CDV can be played.

(*2) Some discs may not play properly due to the status of the equipment used for recording, characteristics of the discs, scratches, dirt, or dirty optical pickup lens.

● For unplayable discs, see page 8.

Icons used in this operation manual

Some functions may not be available depending on discs. The following icons indicate the discs that can be used in the section.

 DVD ...   Indicates DVDs.

 SVCD ...   Indicates super video CDs.

 VCD ...   Indicates video CDs.

 CD ...   Indicates audio CDs.

 MP3 ...   Indicates CD-R/RW with MP3 recording.

 WMA ...   Indicates CD-R/RW with WMA recording.

 JPEG ...   Indicates CD-R/RW with JPEG recording.

● Some operations may not be performed depending on discs even if they are described in this manual.

● During operation, "⊘" may be displayed on the screen. This means that the operations described in this manual are prohibited by the disc.

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Description of discs (continued)

■ DVD-Video

A popular type of DVD disc of the same size as a CD, mainly containing video images.

Region number

DVD discs are programmed with region numbers indicating countries in which they can be played. This system can play discs with region number "4" or "ALL".

Region number
(playable area number)

Title and chapter

DVD-Video discs are divided into "titles" and "chapters". If the disc has more than one movie on it, each movie is a separate "title". "Chapters" are subdivisions of titles.
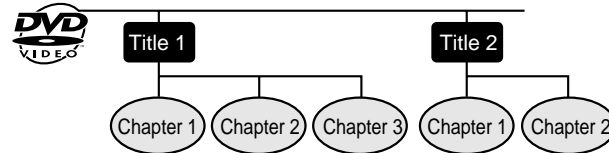
■ DVD-R/DVD-RW/DVD+R/DVD+RW

● You can play DVD-R/DVD-RW/DVD+R/DVD+RW discs recorded in the video mode.
● **Before playing DVD-R/DVD-RW/DVD+R/DVD+RW discs with this unit, finalize them with the equipment used for recording.**

■ Super video CD/video CD/audio CD

Track

Super video CD, video CD and audio CD are composed of "tracks". Tracks are equivalent to songs on a CD.
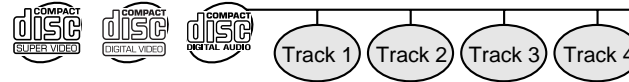
■ MP3/WMA/JPEG format on CD-R/CD-RW

An MP3 file is an audio data compressed in the MPEG 1 audio layer 3 format. MP3 files have the extension ".mp3". (Files with the extension ".mp3" may not play, or noise may occur during playback if not recorded in the MP3 format.)

WMA is an audio file format developed by Microsoft with the ".wma" extension. This type of audio file is recorded through Microsoft Windows operating system.

A JPEG file is still image data compressed in the JPEG (Joint Photographic Experts Group) format. JPEG files have the extension ".jpg".

Folder and file

MP3/WMA/JPEG discs consist of "folders" and "files".

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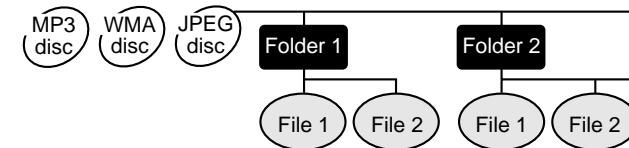
■ Icons used on DVD discs

Check the icons of the DVD jacket before playing your discs.

Display	Description
Format recorded on the DVD `4:3` `16:9 LB` `16:9 PS`	Select a type according to the connected TV type.
Type of subtitles recorded Example: 1. English 2. German	Recorded subtitle languages. You can select a subtitle language.
Number of camera angles	Number of angles recorded on the DVD. You can view scenes from different angles.
Number of audio tracks and audio recording systems Example: 1: Original <English> (Dolby Digital 5.1 Surround) 2. German (Dolby Digital 2 ch)	The number of audio tracks and audio recording systems are indicated. ● You can change the audio language. ● Audio and recording system vary depending on the DVD. Check them in the DVD's manual.

■ Discs that cannot be played

● DVDs without the region number "4" or "ALL".
● DVDs with SECAM system
● DVDs with MPEG sound
● DVD-ROM
● DVD-RAM
● DVD-Audio
● CDG
● Photo CD
● CD-ROM
● SACD
● Discs recorded in special formats, etc.

Notes:
● The discs above cannot be played at all, or no sound is heard although images appear on the screen or vice versa.
● Faulty playback may damage the speakers and can have an adverse effect on your hearing when played at high volume settings.
● You cannot play illegally produced discs.
● A disc with scratches or fingerprints may not play properly. Refer to "Care of discs" (page 64) and clean the disc.

General Information

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Controls and indicators

General Information
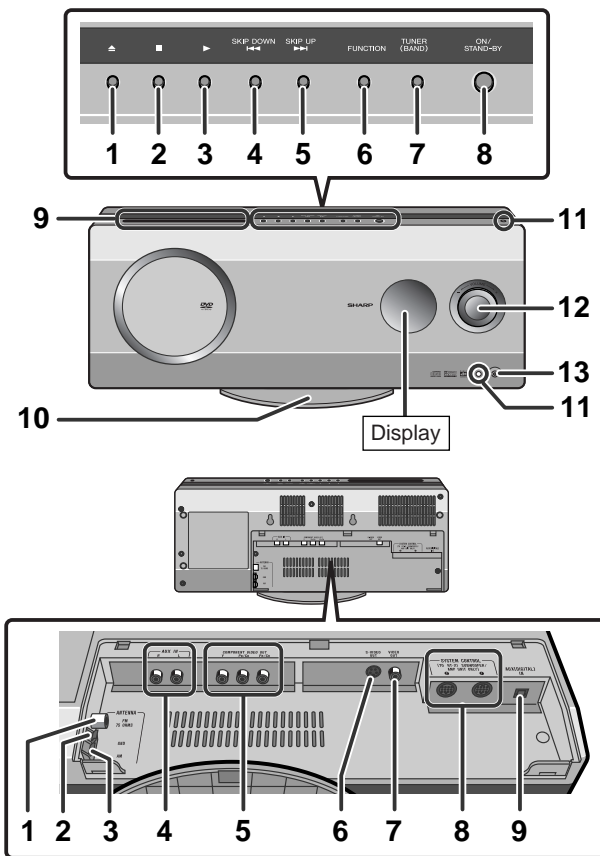
■ **Top and front panel**

Reference page

1. **Disc Eject Button** **26**
2. **Stop Button** **25, 26**
3. **Play Button** **26**
4. **Chapter (Track) Skip Down or Fast Reverse Button** **28**
5. **Chapter (Track) Skip Up or Fast Forward Button** **28**
6. **Function Selector Button** **48**
7. **Tuner (Band) Button** **44**
8. **On/Stand-by Button** **22**
9. **Disc Compartment** **25**
10. **Main Unit Stand** **15**
11. **Remote Sensor** **23**
12. **Volume Control** **24**
13. **Headphone Socket** **21**

■ **Rear panel**

Reference page

1. **FM 75 Ohm Aerial Socket** **16, 17**
2. **Aerial Earth Terminal** **16, 17**
3. **AM Aerial Terminal** **16, 17**
4. **Auxiliary (Audio Signal) Input Sockets** **60**
5. **Component Video Output Sockets** **20**
6. **S-video Output Socket** **20**
7. **Video Output Socket** **19**
8. **System Connection Sockets**
   (to subwoofer/amplifier unit) **16, 17**
9. **Optical Digital Audio Input Socket** **60**

Removing the back cover of the main unit:

For system connections, remove the back cover first.

Display

E-9

1 — PROGRAM
2 — RANDOM
3 — A 1 ⮌ B
4 — STEREO MULTI — 5

6

7

8 — ⧄⧄ DIGITAL PCM

9 — ⧄⧄ PRO LOGIC Ⅱ

10

L	C	R
LFE	SW	S
LS		RS

PROGRAM
RANDOM
A 1 ⮌ B
STEREO MULTI

▶‖ — 14

11

15

12

16

13 — TITLE   CHAP TRACK TOTAL ANGLE — 17
                           STEREO ST SLEEP

18   19   20
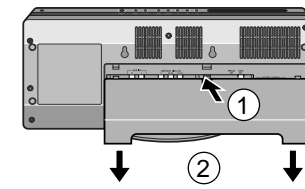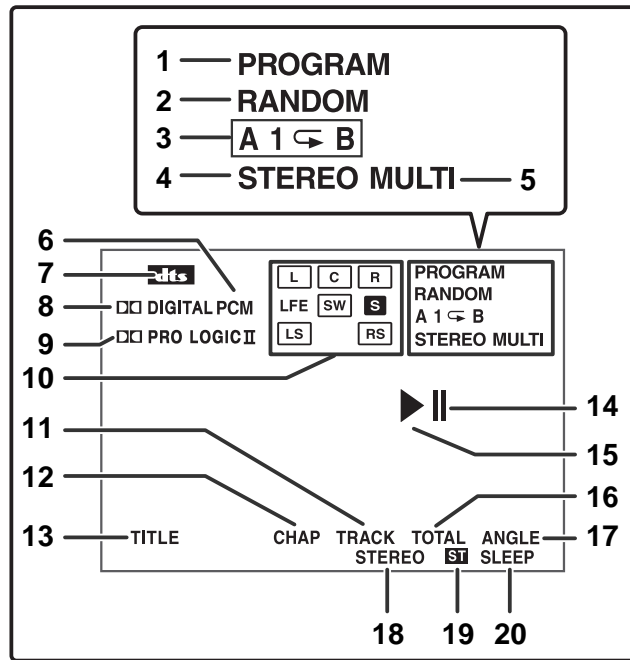
■ **Display**

Reference page

1. **Programme Indicator** **35, 45**
2. **Random Play Indicator** **39**
3. **Repeat/One Track Repeat/A - B Repeat Indicators** . . . **36, 37**
4. **2 channel Stereo Sound Mode Indicator** **49**
5. **Multi Channel Sound Mode Indicator** **50**
6. **PCM Signal Indicator** **47**
7. **DTS Signal Indicator** **47**
8. **Dolby Digital Signal Indicator** **47**
9. **Dolby Pro Logic Ⅱ Indicator** **47**
10. **Audio Signal/Speaker Indicators** **48**
11. **Track Indicator** **37**
12. **Chapter Indicator** **37**
13. **Title Indicator** **37**
14. **Pause Indicator** **26**
15. **Play Indicator** **26**
16. **Total Indicator** **37**
17. **Angle Indicator** **34**
18. **FM Stereo Mode Indicator** **44**
19. **FM Stereo Receiving Indicator** **44**
20. **Sleep Indicator** **59**

General Information

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Controls and indicators (continued)
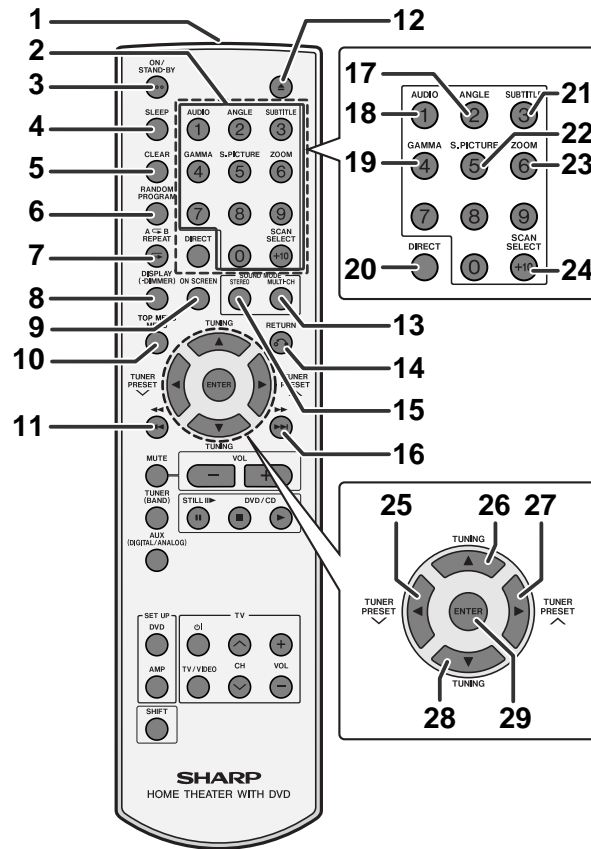
■ **Remote control**

Reference page

1. **Remote Control Transmitter** **23**
2. **Direct Number Buttons** **29**
3. **On/Stand-by Button** **23**
4. **Sleep Button** **59**
5. **Clear Button** **35**
6. **Random or Programme Button** **35, 39**
7. **A - B Repeat or Repeat Button** **36, 37**
8. **Unit Display Select or Dimmer Button** **24, 37**
9. **On Screen Display On/Off Button** **38**
10. **Top Menu or Menu Button** **33**
11. **Chapter (Track) Skip Down or Fast Reverse Button** **28**
12. **Disc Eject Button** **26**
13. **Multi Channel Select Button** **50**
14. **Return Button** **51, 54**
15. **Stereo (2 channel) Select Button** **49**
16. **Chapter (Track) Skip Up or Fast Forward Button** **28**
17. **Angle Button** **34**
18. **DVD Audio Language Select or**
    CD Audio Output Select Button **31**
19. **Gamma Button** **31**
20. **Direct Button** **29**
21. **Subtitle Button** **30**
22. **Super Picture Button** **32**
23. **Zoom Button** **34**
24. **Progressive Scan Mode Select Button** **19**
25. **Tuner Preset Down or Cursor Button** **34, 45**
26. **Tuning Up or Cursor Button** **34, 44**
27. **Tuner Preset Up or Cursor Button** **34, 45**
28. **Tuning Down or Cursor Button** **34, 44**
29. **Enter Button** **29**

■ Remote control

Reference page

TV Operation Buttons

You can operate some functions of SHARP' TVs with the remote control of this system.

However, some models cannot be operated.
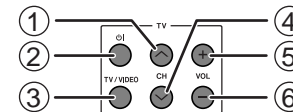
① **TV Channel Up Button**

Switches the TV channel up.

② **TV On/Stand-by Button**

Sets the TV power to "ON" or "STAND-BY".

③ **TV/VCR Input Select Button**

Switches the input to TV or VCR.

④ **TV Channel Down Button**

Switches the TV channel down.

⑤ **TV Volume Up Button**

Turns up the TV volume.

⑥ **TV Volume Down Button**

Turns down the TV volume.

General Information

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Controls and indicators (continued)

General Information
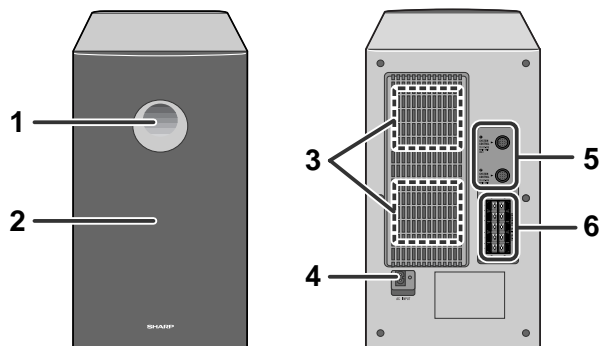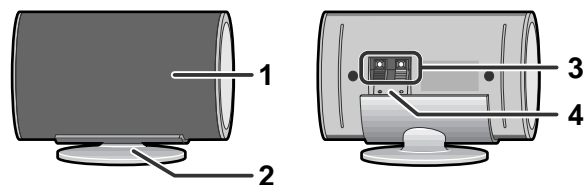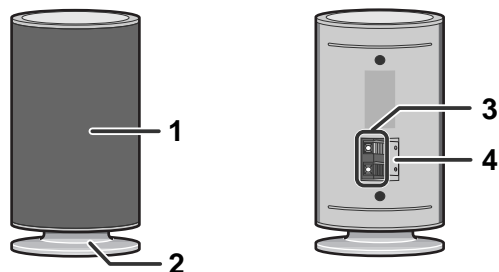
■ Front/surround speakers

Reference page

1. **Speaker**
2. **Speaker Stand** **18**
3. **Speaker Terminals** **16, 18**
4. **Colour Label**

① White ... Left Front Speaker
② Red ... Right Front Speaker
③ Blue ... Left Surround Speaker
④ Grey ... Right Surround Speaker

■ Centre speaker

Reference page

1. **Speaker**
2. **Speaker Stand**
3. **Speaker Terminals** **16, 18**
4. **Colour Label: Green**

■ Subwoofer/amplifier unit

Reference page

1. **Bass Reflex Duct**
2. **Woofer**
3. **Cooling Fan** **22**
4. **AC Power Input Socket** **22**
5. **System Connection Sockets (to main unit)** **16, 17**
6. **Speaker Terminals** **16, 18**

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System installation

Installation image (with optional accessories):

■ Magnetically shielded speakers

The front and centre 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.

Note:
The surround speakers and subwoofer/amplifier unit are not magnetically shielded.

■ 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.
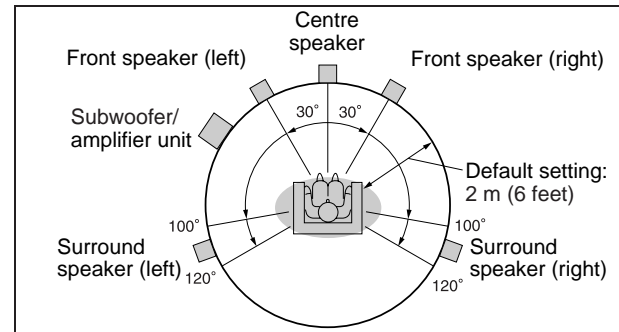
Notes:
- The default distance is set to 2 m (6 feet). If speakers cannot be placed at equal distances, refer to "Speaker delay setting" (see page 52).
- Place the TV halfway between the front speakers.
- It is recommended that the centre speaker be placed near the television.
- Place the surround speakers at a position just above the height of your ears.
- You can place the subwoofer/amplifier unit anywhere you like. As it vibrates whilst reproducing bass, place it on a stable, sturdy surface.

Preparation for Use

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Main unit preparation

■ Installation methods

Make sure to unplug the AC power lead before installing the main unit or change the position.

The stand is attached to the main unit at the factory.
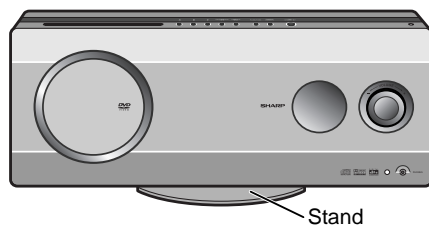
Stand

You can also place the main unit horizontally or mount it on the wall without the stand.
(See page 61 for mounting it on the wall.)

Notes:
● When attaching or removing the stand, place the main unit on a cushion or soft cloth to avoid damage.
● Remove the only specified screws. Malfunction may occur. Be careful not to lose the removed screws.

Caution:
Do not change the installation direction when the main unit is turned on. Disc may not be read or may be damaged.

Placing horizontally

1 **Remove the 2 screws and the stand.**

Stand
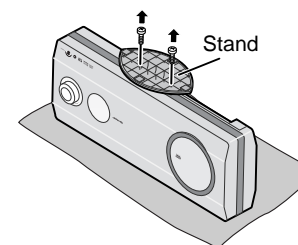
2 **Fix the removed screws.**
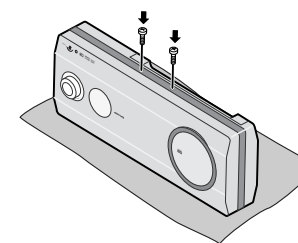
3 **Attach the included button name label.**

Button name label

Note:
Attach the button name label carefully. It is difficult to peel off.

05/2/2   HT-X1W(LA)E2.fm   TINSZA048AWZZ

System connections

● **Make sure to disconnect the AC power lead from the wall socket before you connect/disconnect cables to/from sockets inside the back cover of the main unit or sockets of the subwoofer/amplifier unit.**

● **After connecting cables, attach the back cover and operate the main unit.**

Main unit

Aerial connection
(see page 17)

AM loop aerial

FM aerial

TV connection
(see pages 19, 20)

Connecting the system connection cable (see page 17)

Preparation for Use

Subwoofer/
amplifier unit

Front speaker
(left)
White

Centre
speaker

Front speaker
(right)
Red

Green

White

Red

Green

Blue

Grey

FRONT R L

CENTER

SURROUND R L

Surround speaker
(left)
Blue

Surround speaker
(right)
Grey

7

Connecting the AC power lead
(see page 22)

Speaker connection (see page 18)

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05/2/2   HT-X1W(LA)E2.fm   TINSZA048AWZZ

System connections (continued)

Preparation for Use

■ Connecting the system connection cable
Connect the main unit and subwoofer/amplifier unit as follows.

Subwoofer/
amplifier unit

① SYSTEM CONTROL ► TO HT-X1H MAIN UNIT ONLY

Black

② SYSTEM CONTROL ► TO HT-X1H MAIN UNIT ONLY

Blue

Main unit

ANTENNA
FM 75 OHMS
GND
AM

Aerial terminals

S-VIDEO OUT   VIDEO OUT   SYSTEM CONTROL (TO HT-X1 SUBWOOFER/ AMP UNIT ONLY)   AUX(DIGITAL) IN

Blue   Black
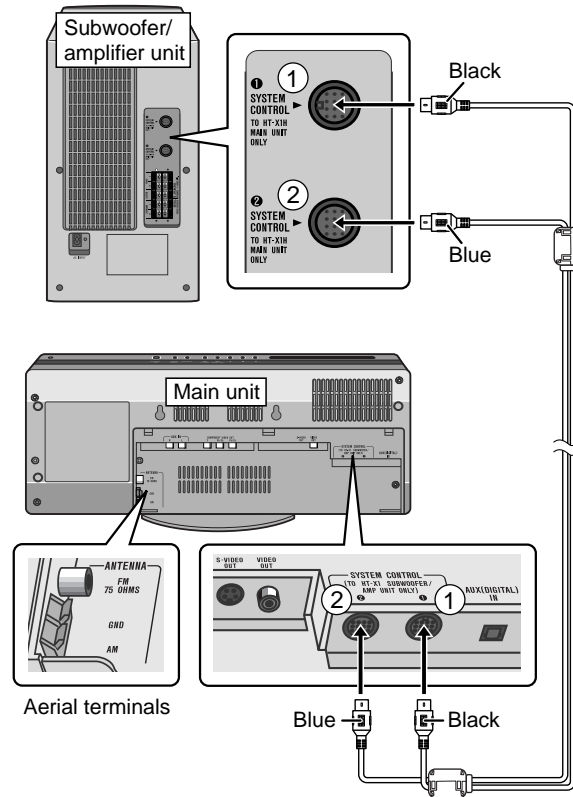
■ Aerial connection

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.
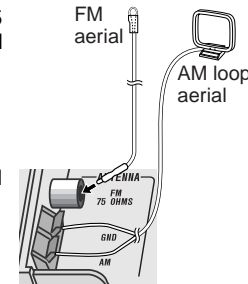
Supplied AM loop aerial:
Connect the AM loop aerial wire to the AM and GND terminals. Position the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).

FM aerial

AM loop aerial

ANTENNA
FM 75 OHMS
GND
AM

Note:
Placing the aerial on the system or near the AC power lead may cause noise pickup. Place the aerial away from the system for better reception.

Installing the AM loop aerial:
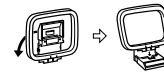
< Assembling >   < Attaching to the wall >
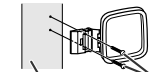
Wall   Screws (not supplied)

External FM or AM aerial:
Use an external FM or AM aerial if you require better reception. Consult your dealer.
When using an external AM aerial, be sure to keep the wire of the AM loop aerial connected.

AM loop aerial

ANTENNA
FM 75 OHMS
GND
AM

External FM aerial

External AM aerial 15 m (49 feet)

Earth wire

Earth rod

7.5 m (25 feet)

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05/2/2   HT-X1W(LA)E2.fm   TINSZA048AWZZ

■ **Speaker connection**

Make sure to leave the AC power lead disconnected when connecting the speakers.

To prevent accidental short circuits between ⊕ and ⊖ terminals, connect the speaker wires to the speakers first and then to the subwoofer/amplifier unit.

When connecting speakers, match the colours of the back label, tube for the speaker wire, and speaker terminal of the subwoofer/amplifier unit.

1 Connect the wires to the speakers.

Example: To connect the left front speaker.

Label (white)
⊕ Red
Tube (white)
⊖ Black

2 Connect the other end to the subwoofer/amplifier unit.

Tube (white)
⊖ Black ⊕ Red

Subwoofer/amplifier unit

Speaker terminal (white)
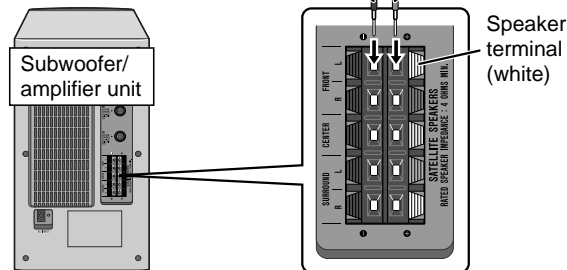
Caution:

● **The supplied speakers are exclusively for the HT-X1W. Do not connect them to other equipment, and do not connect other speakers to the HT-X1W. It may cause malfunction.**

● Do not mistake the ⊕ and ⊖, and right and left terminals of the speaker wires. (The right speaker is placed on the right when you face the subwoofer/amplifier unit.)
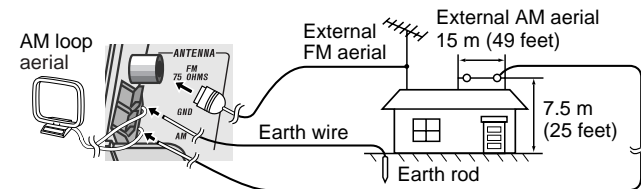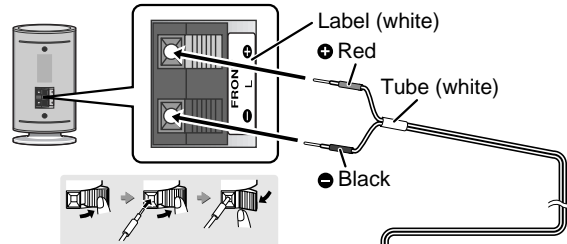
● Do not stand or sit on the speakers. You may be injured.

● Do not allow any objects to fall into or to be placed in the bass reflex ducts.

● The speaker grilles are not removable.

● **Do not short-circuit the speaker wire. If it happens with the power on, the protection circuit is activated and the system enters the stand-by mode. In this case, check that the speaker wire is connected correctly before turning on the power again.**

Incorrect
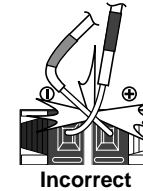
■ **Attaching the optional floor speaker stand**

The front speakers and surround speakers support the optional floor speaker stand (see page 64). Remove the original stand for each speaker using a screwdriver first. For details, refer to the manual for the floor speaker stand.
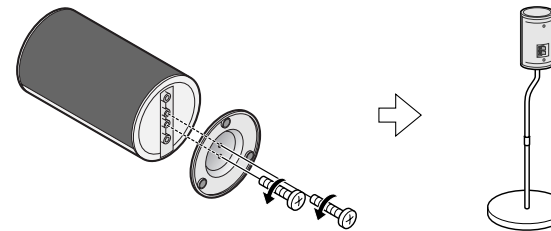
Note:
Keep the removed speaker stands or screw in a safe place.

Preparation for Use

7

E-18

SHARP TINSZA048AWZZ (LA)

05/2/2   HT-X1W(LA)E2.fm   TINSZA048AWZZ

System connections (continued)

Preparation for Use

■ TV connection

Three types of sockets (VIDEO OUT, S-VIDEO OUT and COMPO-NENT VIDEO OUT) are available for connection of a TV and the main unit. Connect according to your TV.

Connecting to a TV with a video input socket:

You can enjoy DVD images by connecting your TV and the main unit with the supplied video cable.

Set the video mode to "Interlace" (default setting). For the procedure, refer to "Changing the video output mode".

Main unit

S-VIDEO OUT   VIDEO OUT   SYSTEM CONTROL (TO HT-X1 SUBWOOFER/ AMP UNIT ONLY)

To video output socket

Video signal

TV

To video input socket

Video cable (supplied)

Notes:

- Change the TV input in accordance with the connected socket.
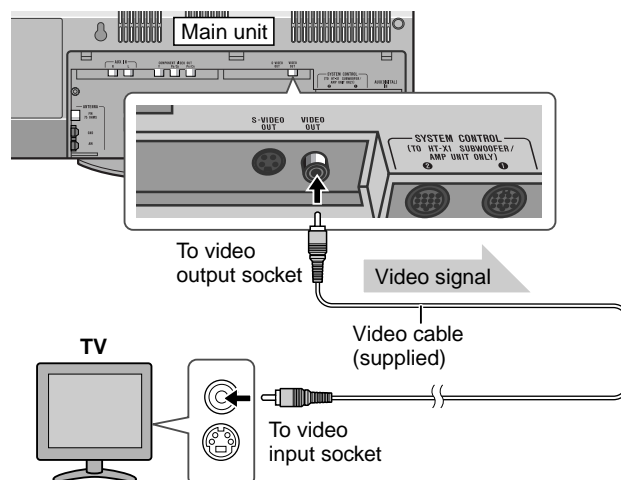- Do not connect other equipment (VCR, etc.) between the TV and the main unit. Images may be distorted.
- Refer to the operation manual of the equipment to be connected.
- Insert the plugs fully to avoid fuzzy pictures or noise.

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Changing the video output mode:

1   Insert a DVD disc (steps 1 - 3, page 25).

2   In the stop mode, press the SHIFT button and SCAN SELECT button on the remote control.

Each time these buttons are pressed, the mode will change in the following order:

Interlace   **Select this for a non-progressive scan TV** (use a video cable, S-video cable, or component video cable).

Progressive (No display)   **Select this for a progressive scan TV** (use a component video cable).

Caution:

To enjoy images on a TV, make sure to select the right items for the following four: video cable, TV's video input socket, and this unit's video output socket and video output mode. Otherwise, images do not appear properly.

What is progressive scanning?

The conventional TV system displays 30 frames of still images per second to complete sequential movement (interlaced scanning). Whereas, progressive scanning displays one frame every 1/60th of a second (60 frames per second) to realise less-flicker, high-density images.

Compatibility of the progressive scan TV

Some progressive scan TVs are not fully compatible with this product, which may cause image distortion. In this case, switch the video mode from "Progressive" to "Interlace".

05/2/2   HT-X1W(LA)E2.fm   TINSZA048AWZZ

Connecting to a TV with an S-video input socket:
If your TV is equipped with an S-video input socket, you can enjoy higher quality images by connecting it with an S-video cable (not supplied).

Set the video mode to "Interlace" (default setting). For the procedure, refer to "Changing the video output mode" on page 19.

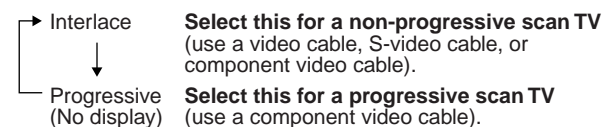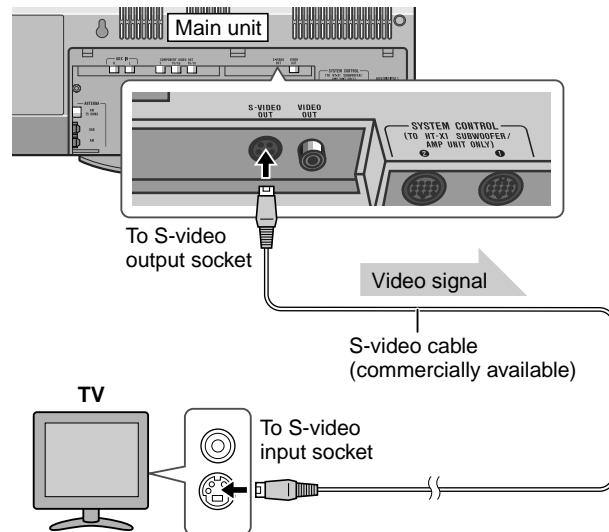To S-video output socket

Video signal

S-video cable (commercially available)

TV

To S-video input socket

Note:
When the video and S-video cables are both connected, the images from the S-video input socket appears on your TV.

Connecting to a TV with component video input sockets:
If your TV is equipped with component video input sockets, purchase a component video cable to enjoy higher quality images.

For a progressive scan TV, set the video mode to "Progressive". Select "Interlace" for a non-progressive scan TV. For the procedure, refer to "Changing the video output mode" on page 19.

Green
Blue
Red

To component video output sockets

Video signal

Component video cable (commercially available)

TV

To component video input sockets
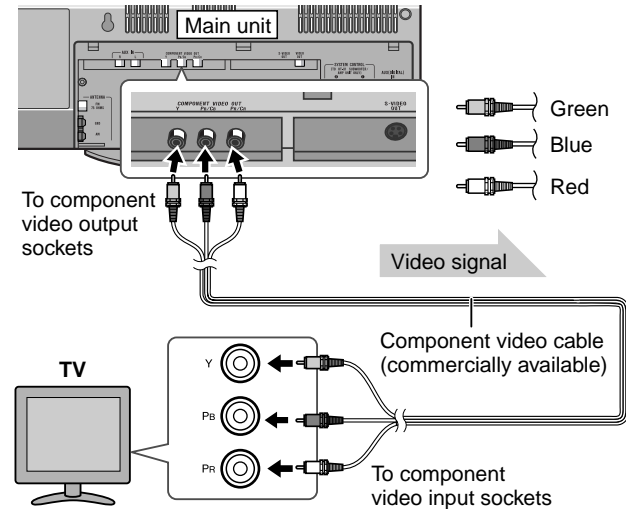
Notes:
● If your TV has different indications for the component video inputs (Y, CB and CR or Y, B-Y and P-Y), connect sockets with its matching colour.
● Some component video sockets designed for the high-vision system are not compatible with DVD. Do not connect this unit to those component video input sockets. (Images may appear distorted or may not appear due to the system difference.)

Preparation for Use

7

E-20

System connections (continued)

■ Attaching the back cover

After making all the connections, attach the back cover to the main unit. Fit the claws into the holes.
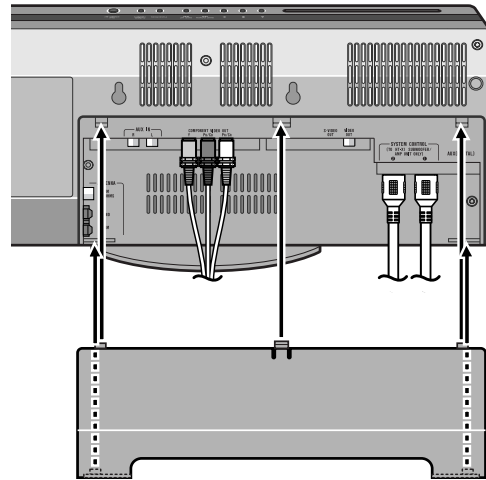
■ Headphones

● Before plugging in or unplugging the headphones, reduce the volume.
● Be sure your headphones have a 3.5 mm (1/8") diameter plug and impedance between 16 and 50 ohms. The recommended impedance is 32 ohms.
● Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME control.

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05/2/2   HT-X1W(LA)E3.fm   TINSZA048AWZZ
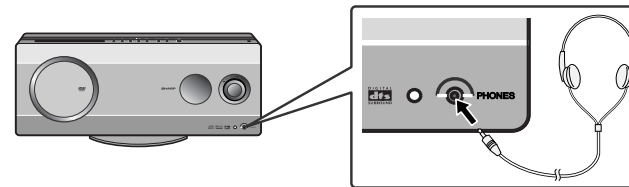
■ Connecting the AC power lead

After checking all the connections have been made correctly, plug the AC power lead to the AC power input socket of the subwoofer/amplifier unit, and then to the wall socket.

Subwoofer/
amplifier unit

Cooling fan

AC INPUT
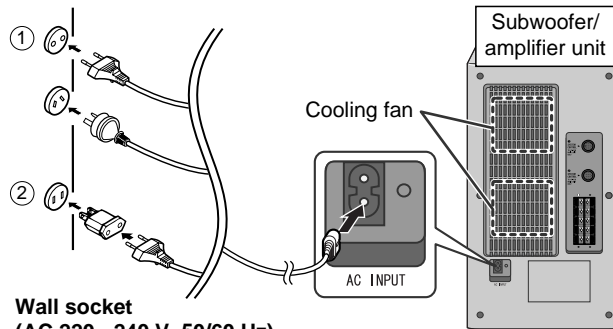
**Wall socket
(AC 220 - 240 V, 50/60 Hz)**

Notes:
● Never use a power lead other than the one supplied. Otherwise, a malfunction or an accident may occur.
● Unplug the AC power lead from the wall socket if the subwoofer/amplifier unit will not be in use for a prolonged period of time.

AC Plug Adaptor
In areas (or countries) where a wall socket as shown in illustration ② is used, connect the unit using the AC plug adaptor supplied with the unit, as illustrated. The AC plug adaptor is not included in areas where the wall socket and AC power plug can be directly connected (see illustration ①).

Note for users in Australia and New Zealand:
An AC plug adaptor is not supplied if the lead has an Australian Standard plug.

Cooling fan:

A cooling fan is built into this subwoofer/amplifier unit for better heat radiation. Do not cover the opening in this section with any obstacles to avoid damage to the subwoofer/amplifier unit.

■ To turn the power on
Press the ON/STAND-BY button.
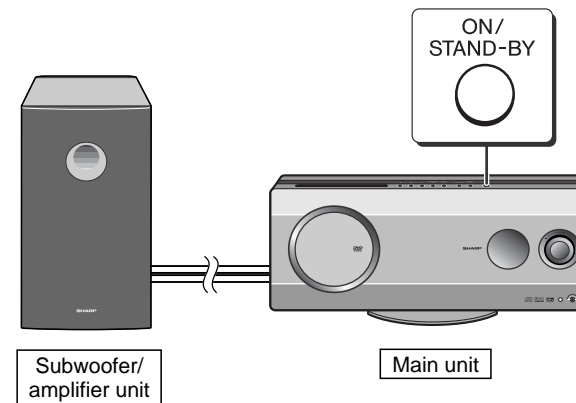If the power does not turn on, check if the AC power lead and system connection cable are plugged in properly.

To set the system to stand- by mode:
Press the ON/STAND-BY button again.

Note:
After the system enters the power stand- by mode, wait a few seconds to turn on again.

ON/
STAND-BY

Subwoofer/
amplifier unit

Main unit

Preparation for Use

7

E-22

Remote control

■ Battery installation

1 Remove the battery cover.
2 Insert the supplied batteries according to the direction indicated in the battery compartment.
When inserting or removing the batteries, push them toward the ⊖ battery terminals.
3 Replace the cover.
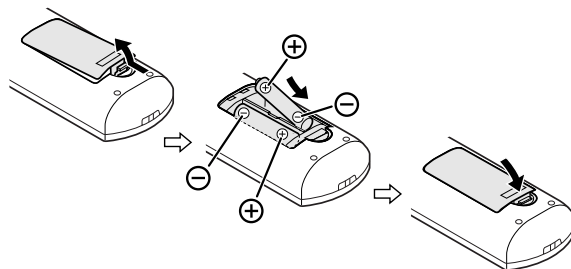
Precautions for battery use:
● Replace all old batteries with new ones at the same time.
● Do not mix old and new batteries.
● Remove the batteries if the system will not be used for long periods of time. This will prevent potential damage due to battery leakage.

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

Battery removal:
Remove the battery cover. Push each battery toward the ⊖ battery terminal and take them out.

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Notes concerning use:
● Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 "AAA" size batteries (UM-4, R03, HP-16 or similar).
● Periodically clean the transmitter on the remote control and the sensor on the main unit with a soft cloth.
● Exposing the sensor on the main unit to strong light may interfere with operation. Change the lighting or the direction of the main unit if this occurs.
● Keep the remote control away from moisture, heat, shock, and vibrations.

■ Test of the remote control

Check the remote control after checking all the connections (see pages 16 - 22).
Point the remote control directly at the remote sensor on the main unit.

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 music.
● The main unit is equipped with 2 remote sensors. Use them according to the installation method as shown below.

Main unit   Remote sensor

0.2 m - 6 m
(8" - 20')

ON/
STAND-BY

15° 15°
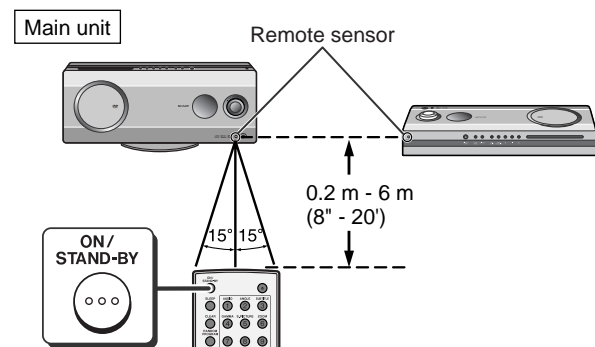
General control
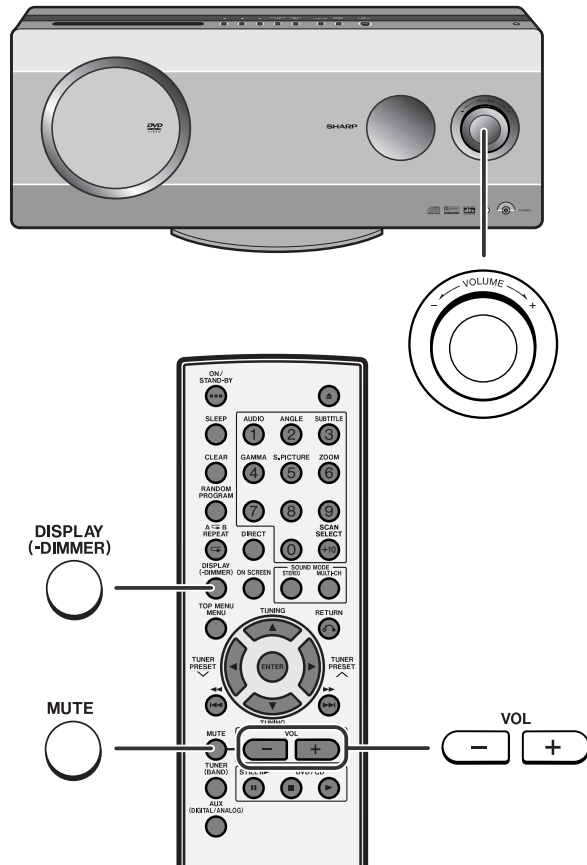
■ Volume control

Main unit operation:
When the VOLUME control is turned clockwise, the volume will increase. When it is turned anti-clockwise, the volume will decrease.

Remote control operation:
Press the VOL (+ or -) button to increase or decrease the volume.

VOLUME 10

0 ↔ 1 ⋯ 10 ⋯ 39 ↔ 40
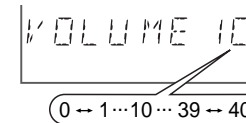
■ Muting

The volume is muted temporarily when pressing the MUTE button.
● Press again to restore the volume.
● The mute status is cancelled when you adjust the volume.

MUTE ON
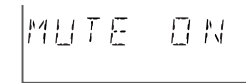
■ To change the display brightness (2 levels)

Hold the DISPLAY/(-DIMMER) button down for 3 seconds or more. Each time you press, brightness changes.

Dimmed   (*)   Brightened

DIM ON ⇒ DIM AUTO ⇒ DIM OFF
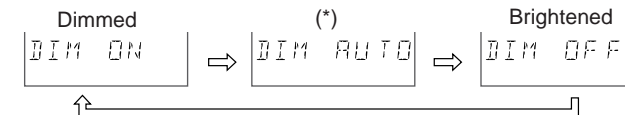
(*) After approx. 5 seconds of DVD playback, the display dims and the original brightness returns when you stop playback. The brightness remains unchanged during playback of other media.

Preparation for Use

7

E-24

05/2/2   HT-X1W(LA)E3.fm   TINSZA048AWZZ

Playing a disc

Turn on the TV, and switch the input to the "VIDEO 1" or "VIDEO 2", etc. accordingly.
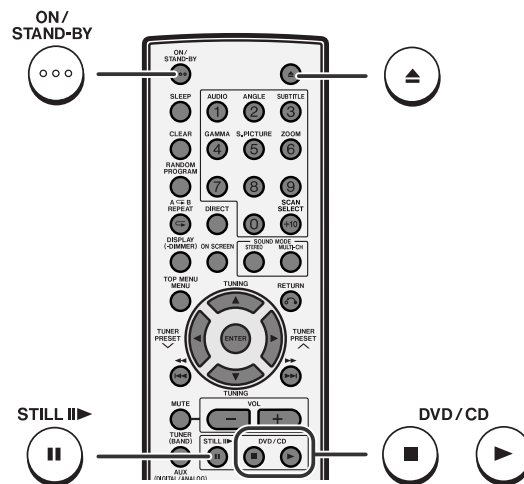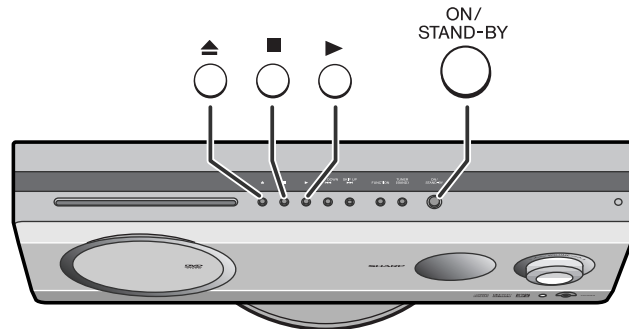
DVD SVCD VCD CD MP3 WMA JPEG

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

2 Press the ■ button to set the input to "DVD".

No Disc

DVD
VideoCD
CD

SHARP

Audio Visual
Entertainment
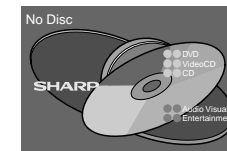
3 Insert a disc into the disc insertion slot with the label side toward you.

● The disc enters automatically.

Notes:

● Do not push in the disc. Damage may result.

● Load an 8 cm (3") disc gently in the middle of the insertion slot (do not use an adaptor.)

Disc insertion slot   Label side

Label side

Disc insertion slot
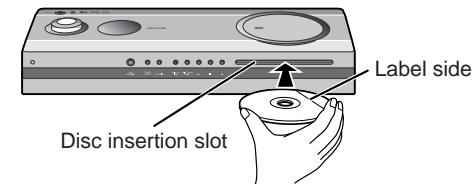
Some discs play automatically.

DVD Operation

ON/
STAND-BY

ON/
STAND-BY

ON/
STAND-BY

SLEEP   AUDIO   ANGLE   SUBTITLE
        1   2   3

CLEAR   GAMMA S.PICTURE ZOOM
        4   5   6

RANDOM
PROGRAM 7   8   9

A≒B   DIRECT   SCAN
REPEAT   SELECT
                 0   +10

DISPLAY   SOUND MODE
(-DIMMER) ON SCREEN STEREO MULTI-CH

TOP MENU
MENU   TUNING   RETURN

TUNER   TUNER
PRESET   ENTER   PRESET

TUNING

MUTE   VOL
        −   +

TUNER   STILL �III   DVD/CD
(BAND)

AUX
(DIGITAL/ANALOG)

STILL ▌▌▶

DVD/CD

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4 If playback does not start, press the ▶ (DVD/CD ▶) button.

The sound mode in use appears during DVD playback.

Play indicator

Chapter or track number   Playing time
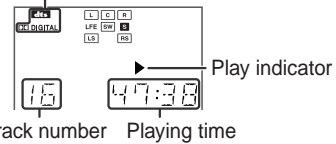
When the menu appears on the TV screen:

On DVD, select an item by using the cursor (▲, ▼, ◀ or ▶) button and press the ENTER button.

On super video CD or video CD, select an item by using the direct number buttons.

To interrupt playback:
Press the STILL ▮▶ ▮▮ button on the remote control.
To resume playback from the same point, press the DVD/CD ▶ button.

To stop playback:
DVD:
Press the ■ button twice.

SVCD/VCD/CD/MP3/WMA/JPEG:
Press the ■ button.

Caution when inserting disc:
● Do not touch the playback side.

● Do not insert two or more discs in the disc insertion slot.
● Discs with labels, stickers or glue attached may cause damage to the main unit.

● Do not use discs of special shapes (heart, octagon, etc.) or 8 cm (3") discs with an adaptor. Malfunction may result.

● A disc with scratches or fingerprints may not play properly. Refer to "Care of discs" (page 64) and clean the disc.
● Insert or remove the disc straight. Otherwise, damage may result.
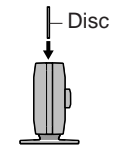
Disc

To remove the disc:

1. In the stop mode, press the ⏏ button.
2. Remove the disc.

DVD Operation

7

E-26
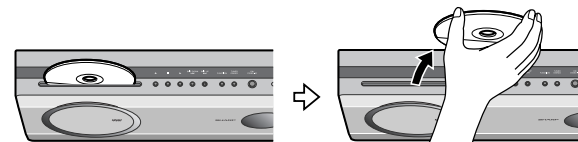
Playing a disc (continued)

Notes:
- When you turn on the power or switch the input to "DVD" initialisation starts and operation is not possible for a few seconds.
- Stop positions may be recorded on some discs. When you play such a disc, playback stops there.
- During an operation, "⊘" may appear indicating that the operation is disabled by the disc.
- Some DVD may not function as described in the manual. See the disc jacket for restrictions.
- Some CD-R/CD-RW may not play properly due to the status of the disc or equipment used for recording. Change the recording speed or disc. For more details, see the manual for the equipment.
- Sound may skip at high volume depending on the disc. In this case, turn down the volume.

Caution:
- Be careful not to damage the disc when inserting or removing it.
- A disc does not play if damaged, dirty or loaded upside down.
- Make sure to remove the disc before transporting the main unit. Otherwise the disc inside may cause malfunction.
- Do not let coins, clips, etc. get into the disc insertion slot. Malfunction may occur.
- When attempting to play discs with scratches or of a different region number, or unplayable or restricted (*1) discs, an error message will appear on the TV display and the disc will not play.

    (*1) Viewing is prohibited on some DVDs according to the audience age.

■ **To resume playback after stopping (resume play)** DVD

You can resume playback from the point playback is stopped.

1	**Whilst the disc is playing, press the ■ button.**	►■ Pre-Stop

The system stores the point you stopped.

2	**To restart play, press the ► (DVD/CD ►) button.**	► Play

Playback resumes from the point you left off.

To cancel resume play:
Press the ■ button again.

■ Stop

Notes:
- The resume play feature is disabled on some discs.
- Depending on the disc, playback may resume slightly before the position where it was stopped.

Basic operation

DVD / CD
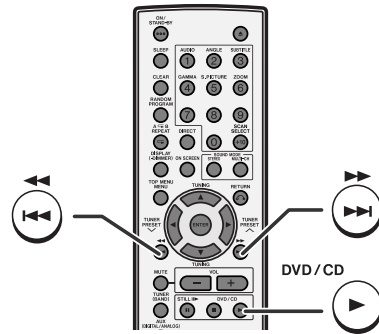
■ **To locate the beginning of a chapter/track (skip)** `DVD` `SVCD` `VCD` `CD` `MP3` `WMA` `JPEG`

You can skip the current chapter (track) to the next or previous.

Whilst a disc is playing, press the I◀◀ or ▶▶I button.	▶▶I Next

Press the ▶▶I button to skip to the next chapter (track).

On DVD/Super Video CD/Video CD/Audio CD:

Press the I◀◀ button to skip to the beginning of the current chapter (track). Press the I◀◀ button again to skip to the beginning of the previous chapter (track).

On MP3/WMA/JPEG discs:

Press the I◀◀ button to skip to the beginning of the previous track (not the current one).

Notes:

● Some discs do not display the chapter (track) and the skip feature is disabled.
● On a DVD, you cannot skip across titles.
● When operating super video CD or video CD with the P.B.C. function, set the P.B.C. to off (see page 41).

■ **Fast forward/Fast reverse (search)**
`DVD` `SVCD` `VCD` `CD` `MP3` `WMA`

You can search the desired point as you play the disc.

1	Whilst a disc is playing, hold down the ◀◀ or ▶▶ button for 2 seconds or more.	▶▶ Fast Forward 2x

The scanning speed will change as follows at each press of the button.

The speed changes as follows on DVD/super video CD/video CD/audio CD:

◀◀ Fast Reverse 2x / ▶▶ Fast Forward 2x

◀◀ Fast Reverse 8x / ▶▶ Fast Forward 8x

◀◀ Fast Reverse 30x / ▶▶ Fast Forward 30x

▶ Play   /   ▶ Play

● The disc is forwarded by the ▶▶ button and reversed by the ◀◀ button.
● The speed cannot be changed on MP3 and WMA discs.

2 Press the ▶ (DVD/CD ▶) button to return to the normal playback.

Notes:

● On some discs, the search function is disabled.
● On DVD, search does not operate across titles.
● On MP3 and WMA, search does not operate across files.
● Whilst searching on a DVD, super video CD or video CD, the sound is not heard and the subtitles will not appear.
● Audio CD or MP3/WMA disc sounds will break up during search. This is not a malfunction.
● When search is performed during the playback, pictures may not be forwarded or reversed in the search speed specified in this manual, depending on the disc or the scene being played.

DVD Operation

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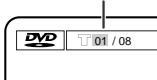
Basic operation (continued)

DVD Operation
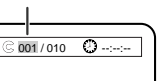
■ **To start playback from the desired point (direct play)** DVD

To select and play the desired title:
Playback starts from chapter 1 of the selected title.

1	**Whilst in the stop or playback mode, press the DIRECT button.**
2	**Within 10 seconds, select the title by pressing the cursor (◄ or ►) button.**
3	**Enter the desired title number by using the direct number buttons.** Title number DVD T 01 / 08
4	**Within 10 seconds, press the ENTER button.**

To select and play the desired chapter:

1	**Perform steps 1 - 3 of "To select and play the desired title" above.**
2	**Within 10 seconds, select the chapter by pressing the cursor (◄ or ►) button.**
3	**Enter the desired chapter number by using the direct number buttons.** Chapter number 001 / 010 --:--:--
4	**Within 10 seconds, press the ENTER button.**

Notes:
● Direct play feature is disabled on some discs.
● Some discs may not display the chapter number.

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Entering title or chapter numbers using the direct number buttons:
If the number is 2 digits or more, press "+10" and enter the number.

Example:
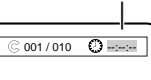
To select chapter 1, press "1".

To select chapter 12, press "+10" and "2".

To select chapter 22, press "+10", "+10" and "2".

To select chapter 112, press "+10" eleven times and press "2".

To play by specifying time (time search):

1	**Whilst a disc is playing, press the DIRECT button.**
2	**Within 10 seconds, select the time by pressing the cursor (◄ or ►) button.** Time 001 / 010 --:--:--
3	**Specify the time by using the direct number buttons.** ● To specify 1 hour 23 minutes and 40 seconds, enter "012340". ● If you enter the wrong number, start over from step 1.
4	**Within 10 seconds, press the ENTER button.**

Notes:
● Some discs cannot play from the specified point.
● Time search feature is disabled on some discs.

Useful operation

The subtitle language and the audio language you select during playback are reset each time you set this system to the stand-by mode or change the disc. To keep your preferred languages, set them in the initial setting screen (see page 54).

SUBTITLE

DIRECT

SHIFT

SHARP
HOME THEATER WITH DVD
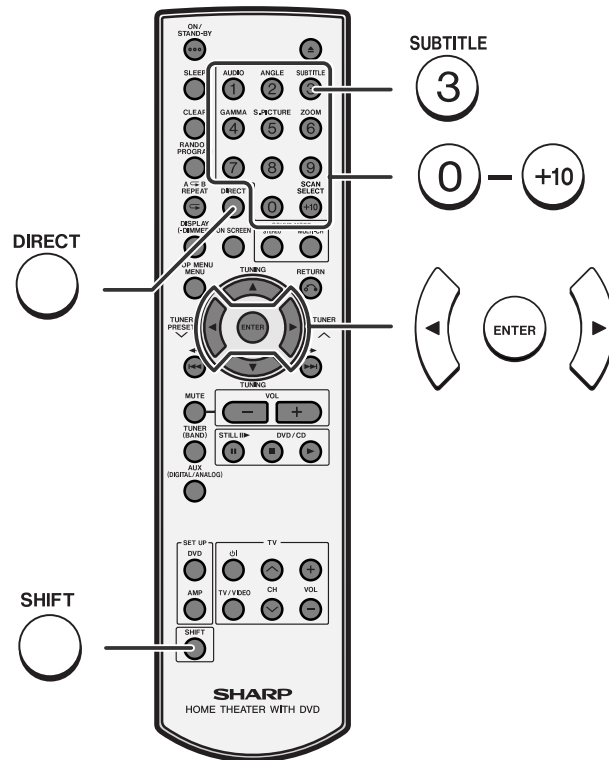
■ **To change the subtitle language** `DVD`

You can change the subtitle language or hide subtitles during playback.

1	**Whilst a disc is playing, press the SHIFT button and then the SUBTITLE button.**	Subtitle 01/09: English

2	**Repeat step 1 to select the desired subtitle language.**	Subtitle 02/09: Spanish

English → French → ··· → Spanish → Subtitle Off

● You can select one from the subtitle languages that are recorded on a DVD.

● To hide subtitles on the screen, select "Subtitle Off".

Notes:
● Some DVDs prohibit changing the subtitle language.
● If no subtitles are recorded on the disc, "⊘" is displayed.
● It may take a little time to switch the subtitle language to the selected one.
● When you set the unit to the stand-by mode or replace the disc, settings return to the default.

DVD Operation

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Useful operation (continued)

■ To change the audio language (audio output)
`DVD` `SVCD` `VCD` `CD` `MP3`

During playback, you can change the audio language (audio output).

1 Whilst a disc is playing, press the SHIFT button and then the AUDIO button.	Audio language information
	Audio 1/3: AC-3 5.1 English
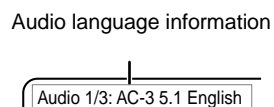
2 Repeat step 1 to select the desired audio number.

When playing DVD, the language changes as follows:

Audio 1/3: AC-3 5.1 English → 1: Original <English>
(Dolby Digital 5.1 ch Surround)

Audio 2/3: AC-3 2CH English → 2: English
⋮ (Dolby Digital 2 ch Surround)
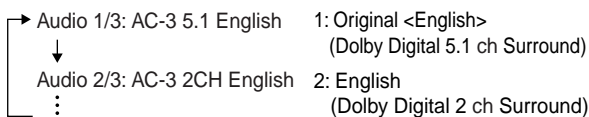
When playing super video CD, video CD, audio CD and MP3, the sound changes as follows:

Mono Left
↓
Mono Right
↓
Stereo

Notes:
- The audio language on some DVDs may not be changed.
- For audio language and audio system, refer to the manual of the disc.
- When you set the unit to the stand-by mode or replace the disc, settings return to the default.

■ To brighten an image `DVD` `SVCD` `VCD`

1 During playback, press the SHIFT button and then the GAMMA button to select "ON".

[G] OFF ▷▷▷

"ON" and "OFF" will be switched by each press of these buttons.

2 Within 10 seconds, press the cursor (◄ or ►) button to set the level.

[G] ON ►▷▷
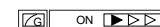
Level	Setting	Level	Setting
OFF ▷▷▷	Normal image	ON ►►▷	Brighter
ON ►▷▷	Slightly brighter	ON ►►►	A lot brighter

To restore the original brightness:
In step 1, select "OFF".

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AUDIO

GAMMA

SHIFT

S.PICTURE

SHARP
HOME THEATER WITH DVD
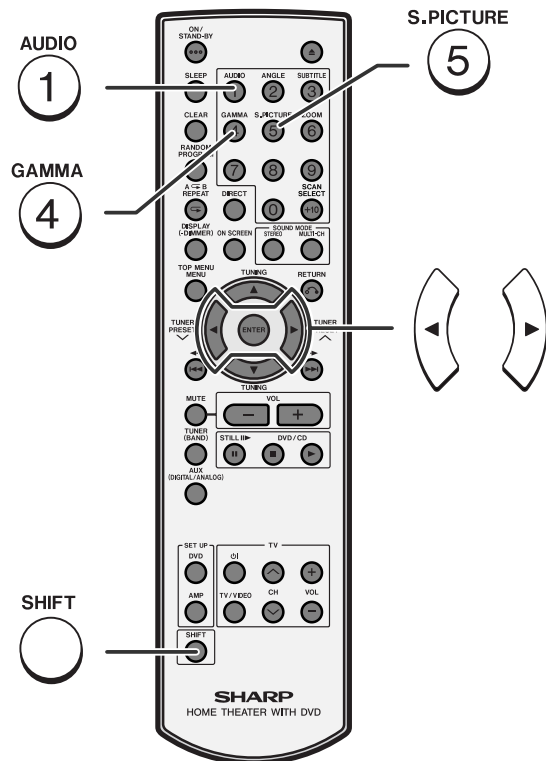
■ To improve the image quality `DVD` `SVCD` `VCD`

1 **During playback, press the SHIFT button and then the S.PICTURE button to select "ON".**

OFF ▷▷▷

"ON" and "OFF" will be switched by each press of these buttons.

2 **Within 10 seconds, press the cursor (◀ or ▶) button to set the level.**

ON ▶▷▷

Level	Setting	Level	Setting
OFF ▷▷▷	Normal	ON ▶▶▷	Clearer
ON ▶▷▷	Slightly clearer	ON ▶▶▶	A lot clearer

To restore the original image quality:
In step 1, select "OFF".

DVD Operation

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Useful operation (continued)

DVD Operation

■ To select a title from the top menu of the disc DVD

On a DVD with multiple titles, you can select a title from the top menu.

1 In the stop mode or during play-back, press the SHIFT button and then the TOP MENU/MENU button.	Example 1 Drama 2 Action 3 SF 4 Comedy
2 Press the cursor (▲, ▼, ◄ or ►) button to change the setting and press the ENTER button. ● The selected title is played. ● You can also use the direct number buttons for some discs.	

Note:
The procedure shown here provides only general steps. The actual procedure for using the disc menu depends on the disc you are using. See the disc jacket for details.

■ To select a subtitle or audio language from the disc menu DVD

You can select the desired subtitle/audio language and sound system (5.1 ch Dolby Digital or DTS sound) on your DVD if it has a disc menu.

1 In the stop mode or during play-back, press the TOP MENU/MENU button.	Example Menu 1. Highlights 2. Start Movie
2 Press the cursor (▲, ▼, ◄ or ►) button to change the setting and press the ENTER button. You can also use the direct number buttons for some discs.	

Note:
The procedure shown here provides only general steps. The actual procedure for using the disc menu depends on the disc you are using. See the disc jacket for details.

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■ Still picture/Frame advance DVD SVCD VCD

You can freeze the image and advance frame by frame.

1 Whilst a disc is playing, press the STILL ❙❙► ❙❙ button.	❙❙ Pause
2 Each press of the STILL ❙❙► ❙❙ button advances the frame in the still mode.	
3 Press the ► (DVD/CD ►) button to return to the normal playback.	

Note:
Still picture and frame advance features are disabled on some discs.

■ Slow-motion play DVD SVCD VCD

You can slow down the playback speed.

1 Whilst a disc is playing, press the STILL ❙❙► ❙❙ button.	❙❙ Pause
2 Hold down the ◄◄ or ►► button for 2 seconds or more. ◄❙ Slow Backward / ❙► Slow Forward	❙► Slow Forward
3 Press the ► (DVD/CD ►) button to return to the normal playback.	

Note:
On some discs, slow-motion play functions are disabled.

■ **To change the angle** DVD

You can change the angle of view when playing a DVD video disc that contains scenes recorded from multiple angles.

1 When "⌂" appears on the TV during playback, press the SHIFT button and then the ANGLE button.
TV screen   **Unit display**
⌂ 1   ANGLE
2 Repeat step 1 to select the desired angle number.
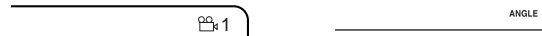
Notes:
- Some DVDs prohibit changing the angle.
- The angle number is not displayed if there is no other angle recorded. "⊘" is displayed instead.
- Refer to the manual of the disc as the operation may vary depending on the disc.
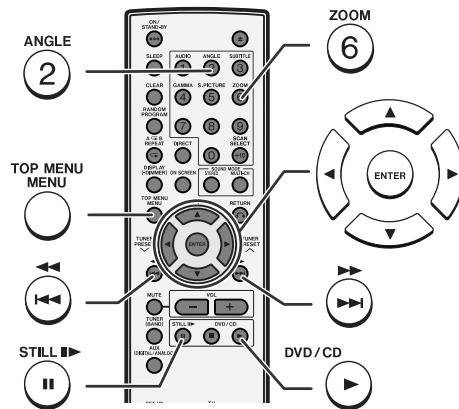
■ **To zoom in on an image (zoom)** DVD SVCD VCD

You can magnify images during playback.

1 Whilst a disc is playing, press the SHIFT button and then the ZOOM button.	Zoom x 1.5
2 Repeat step 1 to select the desired zoom setting.	
Zoom x 1.5 → Zoom x 2 → Zoom x 3 → Zoom off	
3 To shift the view and display the desired part of a zoomed image, press the cursor (▲, ▼, ◄ or ►) button repeatedly.	
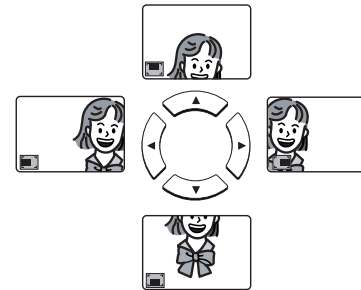
To return to normal view:
Press the SHIFT button and then the ZOOM button. Repeat this to select "Zoom off".
When you cancel the zoom function, you cannot shift the view.

Notes:
- An image may become distorted when zoomed.
- Subtitles cannot be zoomed.
- The position of the current part is indicated in the lower left of the screen.

DVD Operation

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Useful operation (continued)

■ To play in the desired order (programmed play-back) DVD SVCD VCD CD MP3 WMA JPEG

You can play back the desired chapters, tracks or files in the sequence you want.

Maximum of 40 numbers can be programmed.

1 **In the stop mode, press the RANDOM/PROGRAM button.**

The programming screen appears.

2 **Press the cursor (▲ or ▼) button to select "Add" and press the ENTER button.**

When programming for discs other than DVD, go to step 4.

No.	Program	Info.	Menu
			Add
			Insert
			Modify
			Delete
			Clear All
			Exit

Program List
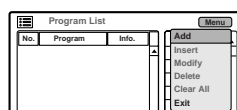
3 **Press the cursor (▲ or ▼) button to select a title number and press the ENTER button.**

The chapter selection screen appears.

Program List

No.	Program	Info.	Select
1	T - ?	--:--	Title 1
			Title 2
			Title 3
			Title 4
			Title 5

4 **Press the cursor (▲ or ▼) button to select a number and press the ENTER button.**

Program List

No.	Program	Info.	Select
1	T - 1 C - ?	--:--	Chapter 1
			Chapter 2
			Chapter 3
			Chapter 4
			Chapter 5

5 **Repeat steps 3 - 4 to programme more. Up to 40 chapters, tracks or files can be programmed.**

Program List

No.	Program	Info.	Select
1	T - 1 C - 1	06:03	Chapter 1
2	T - 3 C - 5	05:06	Chapter 2
3	T - 5 C - ?	--:--	Chapter 3
			Chapter 4
			Chapter 5
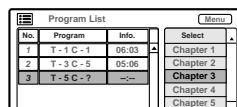
6 **Press the cursor (◄) button to finish programming.**

To delete the wrong number, press the cursor (▲ or ▼) button to select it and press the CLEAR button.

Program List

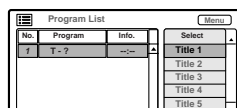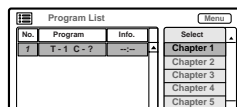| No.	Program	Info.	Select
1	T - 1 C - 1	06:03	Chapter 1
2	T - 3 C - 5	05:06	Chapter 2
3	T - 5 C - 7	04:53	Chapter 3
			Chapter 4
			Chapter 5
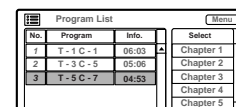
7 **Use the cursor (▲ or ▼) button to select a number to start with, and press the ► (DVD/CD ►) button.**

● Playback starts from the selected number and ends after the last number in the programme.

● "PROGRAM" lights up on the main unit during programmed play.

● Programmed numbers are stored until a disc is removed or you turn the power off.

Program List

No.	Program	Info.	Select
1	T - 1 C - 1	06:03	Chapter 1
2	T - 3 C - 5	05:06	Chapter 2
3	T - 5 C - 7	04:53	Chapter 3
			Chapter 4
			Chapter 5
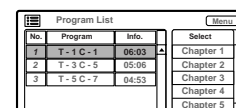
PROGRAM

PROGRAM

To change the programmed contents:

1 Whilst stopped, press the RANDOM/PROGRAM button to show the programming screen.
2 Press the TOP MENU/MENU button to show the menu list.
3 Use the cursor (▲ or ▼) button to select the desired menu item and then press the ENTER button.

"Add" Adds a chapter, track or file to the programme.
"Insert" Inserts a chapter, track or file above (before) the selected number of a programme.
"Modify" Modifies the programme.
"Delete" Deletes the selected number.
"Clear All" Deletes the programme.
"Exit" Turn off the programming screen.

Notes:
● Titles cannot be programmed.
● Programming cannot be performed whilst paused or in the playback mode.
● On some discs, programmed play does not work.

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■ To play repeatedly (repeat play)

DVD SVCD VCD CD MP3 WMA JPEG

You can play a chapter (track) or a title repeatedly by specifying it during playback.

1 Whilst the disc is playing, press the A ↩ B REPEAT/↩ button.

Each time the button is pressed, the repeat play mode changes in the following order.

TV screen	Unit display	

For DVD, the mode changes as follows:

► **Chapter Repeat on**	► 1↩	Repeats the chapter currently playing.
↓	↓	
Title Repeat on	↩	Repeats the title currently playing.
↓	↓	
└ **Repeat off**	└ Disappear	The normal playback
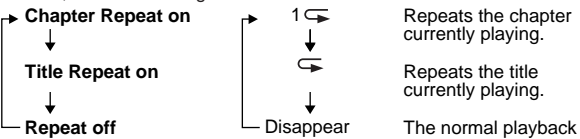
For super video CD/video CD/audio CD, the mode changes as follows:

► **Track Repeat on**	► 1↩	Repeats the track currently playing.
↓	↓	
Disc Repeat on	↩	Repeat play of all of the tracks.
↓	↓	
└ **Repeat off**	└ Disappear	The normal playback
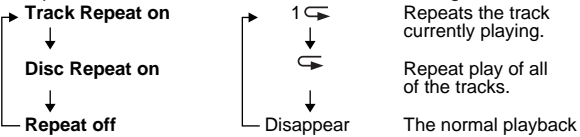
For MP3/WMA/JPEG discs, the mode changes as follows:

► **File Rep**	► 1↩	Repeats the file currently playing.
↓	↓	
Folder Rep	↩	Repeats the folder (directory) currently playing.
↓	↓	
Disc Rep	↩	Repeat play of all of the files.
↓	↓	
└ **Rep off**	└ Disappear	The normal playback
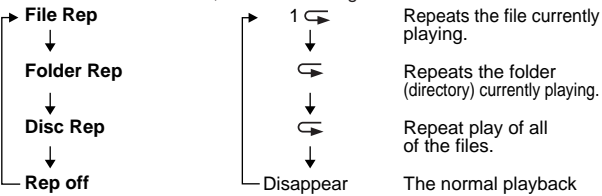
2 Select "Repeat off" by pressing the A ↩ B REPEAT/↩ button repeatedly to return to the normal playback.

Caution:

After performing repeat play, be sure to press the ■ button. Otherwise, the disc will play continuously.

Notes:

● Repeat play is not available on some discs.
● Repeat play is not possible during random play.
● When operating super video CD or video CD with the P.B.C. function, set the P.B.C. to off (see page 41).

DVD Operation

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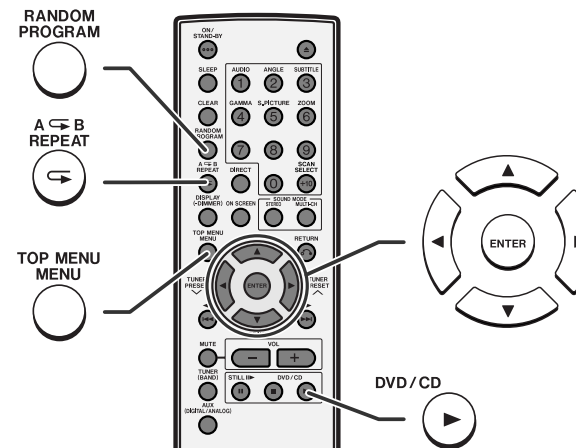
Useful operation (continued)

■ To play the contents between the specified points repeatedly (A-B repeat)
DVD SVCD VCD CD

You can play the desired portion repeatedly by specifying it during playback.

1	**Whilst a disc is playing, press the SHIFT button and then the A ⊂ B REPEAT/⊂ button.**

	TV screen	**Unit display**
	A-B Set A	A ⊂

This registers the start point (A).

2	**Press the SHIFT button and then the A ⊂ B REPEAT/⊂ button again to enter the end point (B).**

	A-B Repeat on	A ⊂ B

A-B repeat plays from the start point (A) to the end point (B).

3	**Press the SHIFT button and then the A ⊂ B REPEAT/⊂ button to return to the normal playback.**

Notes:
- A-B repeat play is disabled on some discs.
- Some scenes in DVD may not allow A-B repeat play.
- A-B repeat play for DVD is possible only within a title.
- A-B repeat play for super video CD, video CD and audio CD are possible only within a track.
- When you press the ■ button, the current A-B repeat play is cancelled. (For DVD, press the ■ button twice.)

■ To change the display on the main unit
DVD SVCD VCD CD

During playback, press the DISPLAY/(-DIMMER) button.
Each time you press the button, the display changes as follows:

DVD:

Title elapsed time   Title/   Chapter elapsed time
                            Chapter number

```
   ▶                    ▶                        ▶
  27:27      ⇨      1    7        ⇨              3:12
 TITLE              TITLE  CHAP                  CHAP
```

SVCD/VCD/CD:

Track elapsed time   Total elapsed time

```
          ▶                      ▶
 03      1:23    ⇨      03      10:12
       TRACK                   TOTAL
```
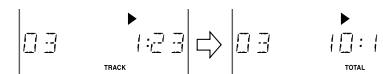
Notes:
- Title/chapter numbers or elapsed time may not appear depending on the disc.
- The playing time of the disc specified on the jacket, etc. may not include silence between tracks, and may differ from that displayed on the main unit.
- Elapsed time on the display does not indicate the actual time.
- When operating super video CD or video CD with the P.B.C. function, set the P.B.C. to off (see page 41).

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■ To change the display on TV screen
`DVD` `SVCD` `VCD` `CD`

You can display or hide the operation indicators on the TV screen.
Whilst the disc is playing, press the ON SCREEN button. (The display is changed at each press of this button.)

When playing DVD, the display changes as follows:

DVD 1/8 2/10 00:38:58 — Title playing time
— Total number of chapters
— Current chapter number
— Total number of titles
— Current title number
— Disc type

DVD 1/8 2/10 -01:09:50 — Remaining playing time of the current title

DVD 1/8 2/10 00:07:43 — Chapter playing time

DVD 1/8 2/10 -00:02:38 — Remaining playing time of the current chapter

DVD ...DEF 1/9 DEF 1/3 dts, 1/3 — Angle information
— Repeat mode information
— Audio language information
— Subtitle information

When playing a super video CD, video CD or audio CD, the display changes as follows:

CD 1/19 L R PBC 01:02 — Track playing time
— Repeat mode information
— PBC information (VCD)
— Audio information

CD 1/19 L R -03:14 — Remaining track playing time

CD 1/19 L R 20:00 — Elapsed total playing time

CD 1/19 L R -40:37 — Remaining total playing time

Note:
On super video CD or video CD, elapsed total playing time or remaining total playing time appears when P.B.C is off (see page 41).

DVD Operation

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Playing an audio CD

Audio CD Operation

RANDOM
PROGRAM

SHIFT

■ To play in random order (random play)
SVCD VCD **CD** MP3 WMA JPEG

The tracks on the disc can be played in random order automatically.

In the stop mode, press the SHIFT button and then the RAN-DOM/PROGRAM button.

All tracks play in random order.

TV screen	Unit display

SVCD/VCD/CD:
► Play   Random

MP3/WMA/JPEG:
► Random
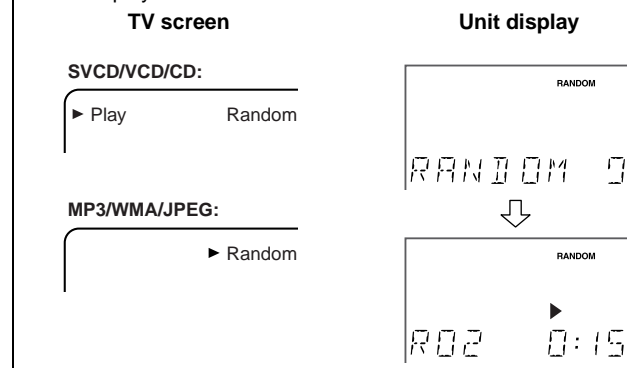
RANDOM
RANDOM

To cancel random play:
Press the ■ button.

Notes:
● On some discs, this function cannot be used.
● You cannot set the random play whilst in the playback or pause mode.
● Random play is not allowed during programmed playback.
● In random play, the unit will select and play tracks automatically. (You cannot select the order of the tracks.)
● Repeat play is not possible during random play.
● When operating super video CD or video CD with the P.B.C. function, set the P.B.C. to off (see page 41).
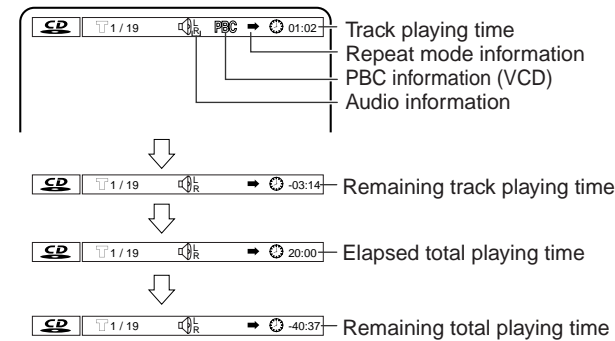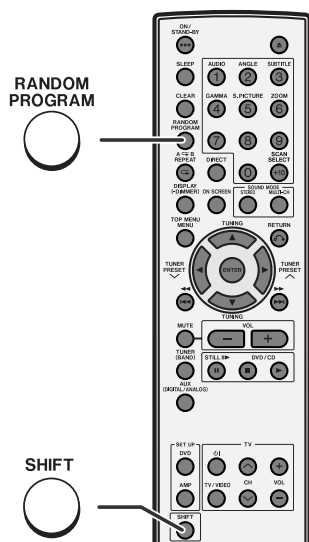
■ **To start playback from the desired point (direct play)**

To select and play the desired track: SVCD VCD CD MP3 WMA JPEG

Whilst in the stop or playback mode, press the direct number buttons to select the track number.

TV screen	Unit display
Select: 14	14 0:15

If the track number is 2 digits or more, press "+ 10" and enter the number.

Example:

To select track 14, press "+10" and "4".

To select track 24, press "+10", "+10" and "4".

To select track 112, press "+10" eleven times and press "2".

Notes:
● Direct play feature is disabled on some discs.
● When operating super video CD or video CD with the P.B.C. function, set the P.B.C. to off (see page 41).

To play by specifying time (time search): SVCD VCD CD
You can play tracks from the desired time point during playback.

1 Whilst the disc is playing, press the DIRECT button.

Time

| CD | ⏱ 1 / 19 | 🕐 --:-- | MAX [04:56] |
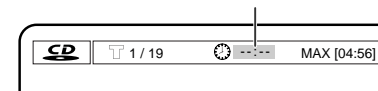
2 Specify the time with the direct number buttons.

● Enter minutes and seconds.
● To specify 1 hour 13 minutes and 40 seconds, enter "7340".
● If you enter the wrong number, start over from step 1.

3 Within 10 seconds, press the ENTER button.

Note:
Time search feature is disabled on some discs.

Audio CD Operation

ENGLISH

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E-40

Playing a super video CD or video CD

The following playback functions are the same as DVD or CD operations.

■ **Playing a super video CD or video CD with P. B. C. (playback control)** SVCD VCD

1	Insert a super video CD/video CD with P.B.C. The menu will appear on the TV and playback will be paused.	Example

2	Select the desired menu number by using the direct number buttons (0 - +10).

Example:
To select track 14, press "+10" and "4".
● Playback starts.
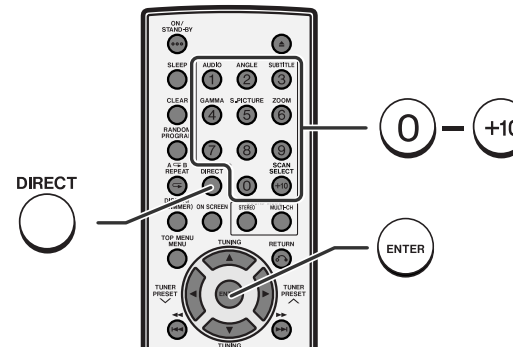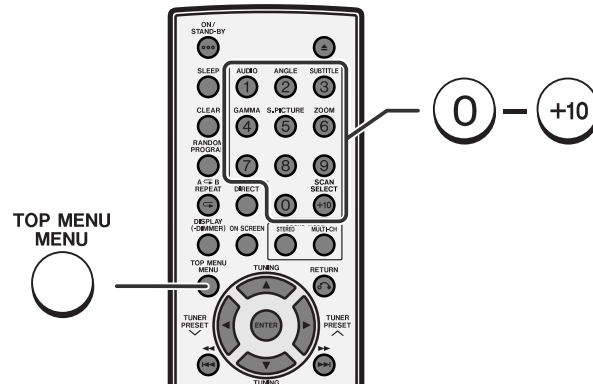● After playback stops, the menu will reappear, then select the menu number you want to play.

To scroll the menu screen (menu screen with more than 1 page):
Press the I◀◀ or ▶▶I button.

To stop playback:
Press the ■ button.

To play without activating the playback control function:
You can play a super video CD/video CD with P.B.C. without activating the playback control function.
In this case, the menu screen will not appear, and the disc will play in the same way as a super video CD/video CD without P.B.C.

Press the TOP MENU/MENU button to cancel the P.B.C. mode.

▶ Play   PBC off

Each time you press the button, the setting switches on and off.

Notes:
● Some super video CDs/video CDs with P.B.C. cannot be played back when the P.B.C. mode is off.
● If the P.B.C. mode is cancelled with the menu on the TV, playback starts automatically.

E-41

Playing an MP3, WMA or JPEG disc

The following playback functions are the same as DVD or CD operations.

MP3   WMA   JPEG

You can play CD-R/RW recorded in the MP3, WMA and JPEG formats.

Insert a disc containing MP3, WMA and JPEG files.

A menu screen appears and playback starts automatically.

☐ ··· Folder
🎵 ··· MP3 file
🖼 ··· WMA file
🖼 ··· JPEG file
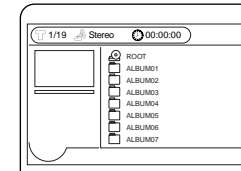
Example of playback sequence

● Playback is performed in the order of 1 to 11 in this example.

● Files on some discs cannot be played in order.
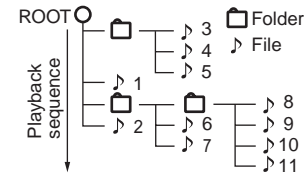
When playing JPEG files

● Playback skips to the next file approx. every 5 seconds.

● To return to the menu screen, press the ■ button.

Selecting a folder/file on the menu screen:
Whilst in the stop mode, press the cursor (▲ or ▼) button to select a folder/file and press the ENTER button.

Caution:
If you convert MP3 data to "audio CD" data when recording on a CD-R/RW, play it as an audio CD. The MP3 operation cannot be performed.

Notes:
● Up to 20 characters can be displayed for a folder name and a file name. Underlines, asterisks, and spaces may not be displayed.
● Due to the structure of the disc information, it takes longer to read an MP3, WMA or JPEG disc than a normal CD.

MP3, WMA and JPEG Disc Operation

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E-42

Playing an MP3, WMA or JPEG disc (continued)

MP3, WMA and JPEG Disc Operation

■ Zoom function `JPEG`

1 Whilst a disc is playing, press the SHIFT button and then the ZOOM button.

Zoom on

2 Hold down the ◄◄ or ►► button for 2 seconds or more.

Zoom 150 Pct

Use the ◄◄ or ►► button to switch the zoom setting as follows:

Zoom 025 Pct ◄► Zoom 050 Pct ◄► Zoom 100 Pct ◄► Zoom 150 Pct ◄► Zoom 200 Pct

3 To shift the view and display the desired part of a zoomed image, press the cursor (▲, ▼, ◄ or ►) button repeatedly.

Press the ▲ button.   Press the ► button.

Press the ◄ button.   Press the ▼ button.
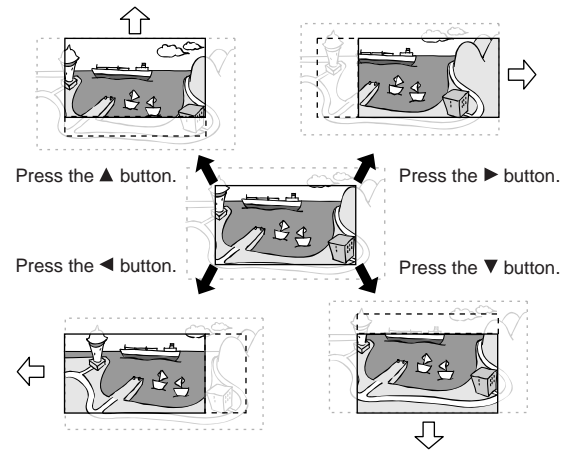
To return to normal view:
Press the SHIFT button and then the ZOOM button again, "Zoom off" will show on the screen.

■ Rotating a picture `JPEG`

After pressing the STILL ❙❙► ❙❙ button, press the cursor (▲, ▼, ◄ or ►) button.
The image rotates as shown below.
► button: 90° rotation in a clockwise direction.
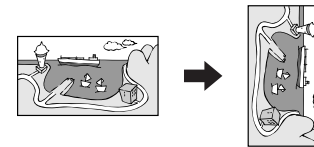
◄ button: 90° rotation in a anti-clockwise direction.
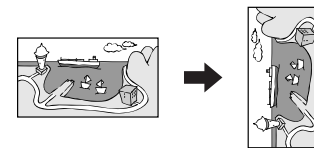
▲ button: Vertical mirror image.

▼ button: Horizontal mirror image.

Note:
Some images may not be zoomed or rotated ("⊘" appears).

E-43

Listening to the radio
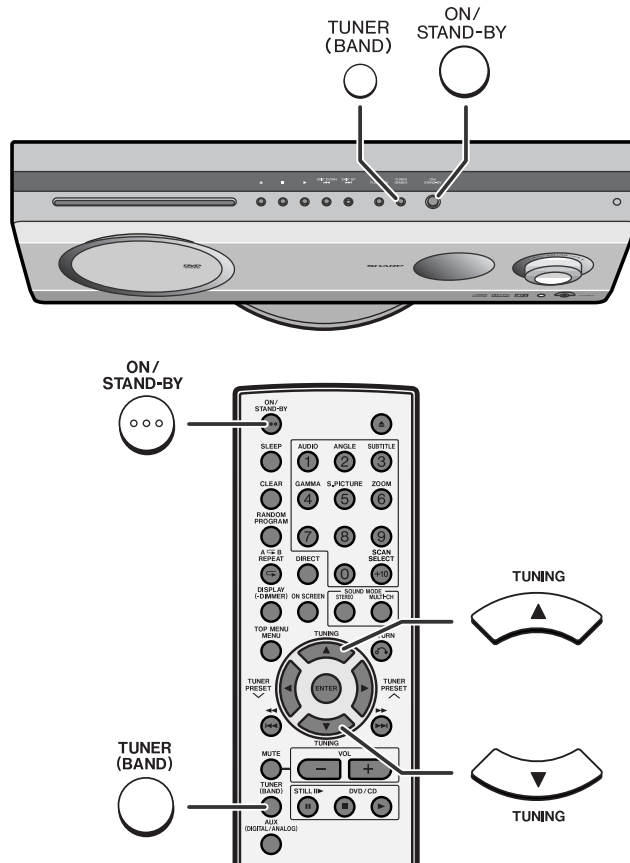
■ Tuning

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 or AM).**

3 **Press the TUNING (▼ or ▲) button to tune in to the desired station.**

Manual tuning:

Press the TUNING button as many times as required to tune in to the desired station.

Auto tuning:

When the TUNING 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 the auto tuning, press the TUNING button again.

To receive an FM stereo transmission:
Press the TUNER (BAND) button to display the "STEREO" indicator.
● "ST" will appear when an FM broadcast is in stereo.
● If the FM reception is weak, press the TUNER (BAND) button to extinguish the "STEREO" indicator. The reception changes to monaural, and the sound becomes clearer.

FM stereo mode indicator

FM stereo receiving indicator
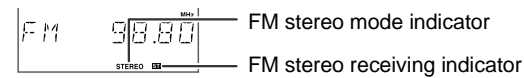
Note for users in Australia and New Zealand:
This product can receive FM stereo/FM monaural and AM monaural broadcasts. AM stereo broadcasts will not be played in stereo.

Radio

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E-44

05/2/2   HT-X1W(LA)E5.fm   TINSZA048AWZZ

Listening to the radio (continued)

■ 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 "Tuning" on page 44.**
2	**Press the ENTER button to enter the preset tuning saving mode.**
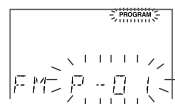
3	**Within 5 seconds, press the TUNER PRESET (∨ or ∧) button to select the preset channel number.** Store the stations in memory, in order, starting with preset channel 1.
4	**Within 5 seconds, press the ENTER button to store that station in memory.** If the "PROGRAM" and preset number indicators go 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.
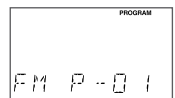
Note:
The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead get disconnected.

■ To recall a memorised station

Press the TUNER PRESET (∨ or ∧) button for less than 0.5 seconds to select the desired station.

To select a preset station with the direct number buttons:
1 Press the corresponding number ("0" - "9").
2 Press the ENTER button.

Example:
To select 28, press "2", "8" and "ENTER".

■ To scan the preset stations

The stations saved in memory can be scanned automatically. (Preset memory scan)
1 Press the TUNER PRESET (∨ 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 TUNER PRESET (∨ or ∧) button again when the desired station is located.
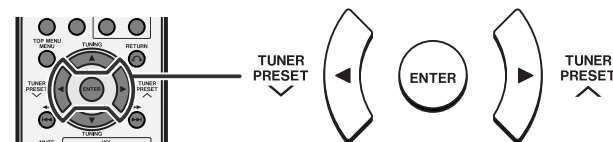
■ To erase entire preset memory

1 Hold the CLEAR button down for 4 seconds or more.
2 Within 10 seconds, press the ENTER button.

05/2/2   HT-X1W(LA)E5.fm   TINSZA048AWZZ
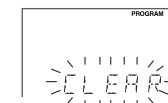
■ Setting the AM/FM interval

The International Telecommunication Union (ITU) has established that member countries should maintain either a 10 kHz or 9 kHz interval between broadcasting frequencies of AM stations and 100 kHz or 50 kHz for FM stations. The illustration shows the 50/9 kHz zones (regions 1 and 3), and the 100/10 kHz zone (region 2).

This product is not equipped with a span selector. However, the tuning interval is set to SPAN 1 [10 kHz AM interval (100 kHz FM interval)] when shipped from the factory.
Before using the unit, be sure to set it to the AM/FM tuning interval (span) used in your area.
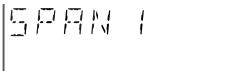
TUNER
(BAND)

ON/
STAND-BY
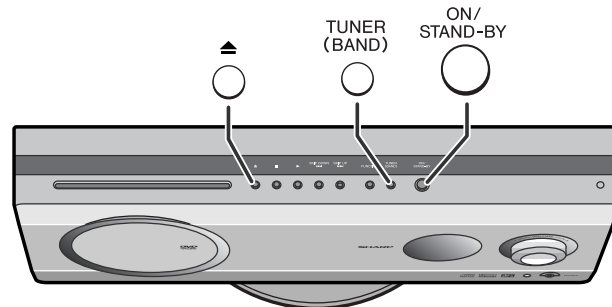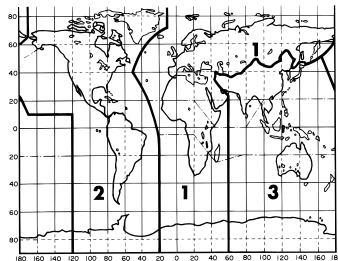
To check the tuning span currently selected:

1   Press the ON/STAND-BY button to turn the power on.
2   Press the TUNER (BAND) button until "AM" appears on the display.
    ● If "AM 531 kHz" is displayed, it means that AM stations have been adjusted for a 9 kHz span and FM stations for 50 kHz span. If "AM 530 kHz" is displayed, AM stations have been adjusted for a 10 kHz span and FM stations for 100 kHz span.

To change the AM/FM tuning interval:

1   Press the ON/STAND-BY button to enter the power stand-by mode.
2   Whilst holding down the TUNER (BAND) button and the ▲ button, press the ON/STAND-BY button.
    "SPAN SELECT" flashes.
3   Within 10 seconds, press the TUNER (BAND) button.
    The current setting appears.

4   Within 3 seconds, hold down the TUNER (BAND) button. "SPAN 1" and "SPAN 2" appear alternately. Release the button whilst the interval (span) in your area appears.
    For 10 kHz AM (100 kHz FM) interval: SPAN 1
    For 9 kHz AM (50 kHz FM) interval: SPAN 2
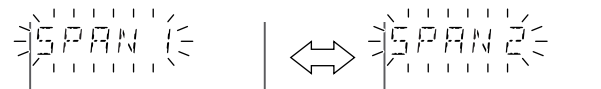
    ● The setting appears for 3 seconds and the unit enters the stand-by mode.
    ● To start over, press the TUNER (BAND) button whilst the setting appears, and repeat step 4.

Caution:
● When the unit is left for a few hours after the span is switched and the AC power lead is disconnected, the AM span automatically returns to SPAN 1 [10 kHz (FM span to 100 kHz)]. If this happens, set the span again.
● When the span is switched, all the memorised stations will be cancelled.

Radio

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E-46

05/2/2   HT-X1W(LA)E5.fm   TINSZA048AWZZ

Enjoying surround sound (sound mode)

Dolby Digital

Disc with this trademark

Unit display
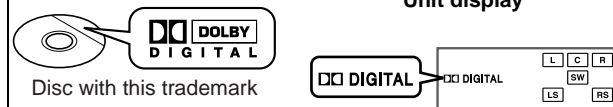
A 5.1 surround sound decoding used for home theater surround sound. You can enjoy the stereophonic effect in the home theater system.

When you set the audio output to Dolby Digital for a disc recorded in Dolby Digital, the DIGITAL indicator lights up (see page 31).

DTS (Digital Theater Systems)

Disc with this trademark

Unit display
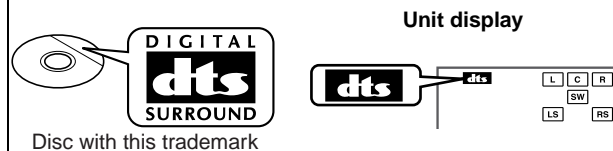
A 5.1 surround sound decoding used for home theater surround sound. As the sound quality is emphasised, you can enjoy the realistic sound effect in the home theater system.

When you set the audio output to DTS for a disc recorded in DTS, the indicator lights up (see page 31).

Unit display

CD,VCR etc.

PCM

Linear PCM

A signal recording format without compression

Used in DVD and CD featuring a musical or concert.

Dolby Pro Logic Ⅱ

Stereo-recorded discs and videotapes

Dolby Pro Logic Ⅱ decodes 2 channel stereo sound from discs, videotapes, etc. to reproduce 5.1 channel surround sound. You can enjoy a three-dimensional sound field.

When Dolby Pro Logic Ⅱ is activated, the PRO LOGIC Ⅱ indicator lights up.

E-47

■ Audio Signal/Speaker Indicators

Audio signal indicators light up for the corresponding audio source, and speaker indicators are illuminated according to signals sent to the speakers.

(1) (2)   (3)(4)(5) (6)

Audio signal indicator

L —— Speaker indicator

(7)— LFE SW   **S** —— (8)

LS   RS

(9) (10) (11) (12) (13)
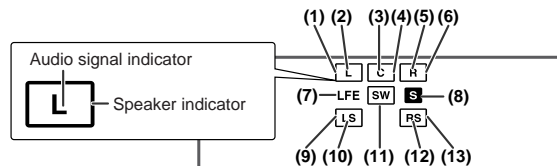
Example:
When 2.1 channel audio signals (L, R, LFE) are received, the audio signal indicators "L", "R" and "LFE" light up.
The illustration below indicates that 2 channel stereo sound (L and R) is reproduced.

L   R
LFE SW

L, R, LFE: Incoming audio signals
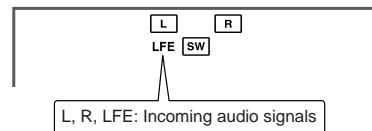
When Dolby Pro Logic Ⅱ is activated

2 channel stereo sound is converted to 5.1 channel surround sound, and all the speaker indicators "□" light up.

L   R
SW

"□" appears when the speakers are receiving audio signals.
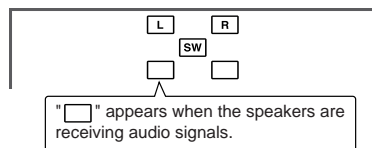
Audio Signal/Speaker Indicators:

(1)Left Front Speaker Indicator
(2)Left Indicator
(3)Centre Indicator
(4)Centre Speaker Indicator
(5)Right Indicator
(6)Right Front Speaker Indicator
(7)Low Frequency Effect Indicator
(8)Surround Monaural Signal Indicator
(Lights up when the surround speakers receive monaural signals.)
(9)Left Surround Speaker Indicator
(10)Left Surround Indicator
(11)Subwoofer Indicator
(12)Right Surround Indicator
(13)Right Surround Speaker Indicator

Notes:
● You can switch the audio output when the disc contains sounds of multiple audio formats (Dolby Digital, DTS, etc.). See page 31.
● Sound may not be produced from the subwoofer/amplifier unit depending on the disc.
● You cannot change the multi channel mode or stereo mode whilst listening to the radio.
● If sound is unpleasant to listen to, change the multi channel mode or stereo mode.
● Settings for the multi channel mode and stereo mode are retained by input (DVD, AUX DIGITAL and AUX ANALOG).

Advanced Features

7

E-48

Enjoying surround sound (sound mode) (continued)

Advanced Features

You can enjoy spacious sound recorded in Dolby Digital or DTS. Also, Dolby Pro Logic II allows you to enjoy spacious 2 channel stereo sound.

SOUND MODE
STEREO   MULTI-CH
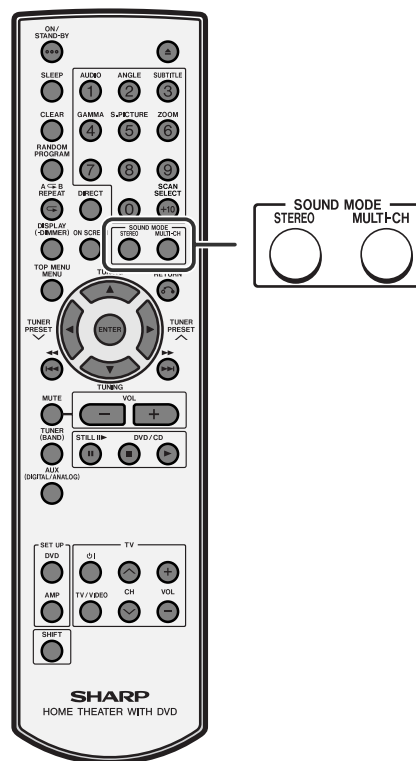
■ Listening to 2 channel stereo sounds

Whilst the disc is playing, press the STEREO button.

Example: DTS format
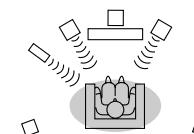
STEREO

You can enjoy 2 channel stereo sound.

When you press once, the last used setting appears. To change it, press the button repeatedly within 3 seconds.

STEREO ↔ VIRTUAL (*)
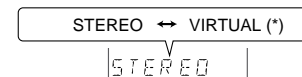
STEREO

STEREO: You can enjoy the great acoustic effects of the front speakers and subwoofer/amplifier unit.

VIRTUAL (*): Although the surround speaker does not work, you can enjoy spacious surround effects.

It sounds as if speakers are also placed in ⬚.
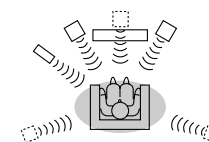
(*) For CD playback, "SURROUND" appears instead of "VIRTUAL" (effects are the same).

Notes:
● When the surround mode is set to "STEREO" or "VIRTUAL (SURROUND)", the same monaural sound is reproduced in the both of the right and left channels.
● Some discs are recorded at 96 kHz (sampling frequency). When this type of disc is played on a compatible player and signals are digitally [AUX (DIGITAL) IN] sent to this unit, the sound mode is changed to "STEREO" automatically. The sound mode cannot be changed during playback.

E-49

■ **Listening to sounds in the multi channel mode (5.1 ch, etc.)**

DVD (Dolby Digital or DTS)

Whilst the disc is playing, press the MULTI-CH button.
Example: DTS format

A maximum of 5.1-ch surround sound is reproduced to provide three-dimensional effect.

When you press once, the last used setting appears. To change it, press the button repeatedly within 3 seconds.

```
STANDARD  →  MOVIE
   ↑              ↓
 NIGHT    ←    MUSIC
```
STANDARD
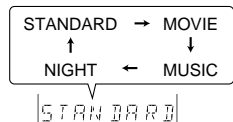
STANDARD: You can enjoy the original sound as it is.
MOVIE: The bass level is increased for powerful sound effect.
MUSIC: You can enjoy lively sound by producing the articulate sound.
NIGHT: The dynamic range control (compression) is activated automatically and you can enjoy clear sound even at low volumes.

Note:
When listening to Dolby Digital or DTS sound, you cannot select "STADIUM" and "HALL".

2 channel stereo sound (CD, videotapes, etc.)

Whilst the disc is playing, press the MULTI-CH button.
Example: 2-ch stereo sound

Dolby Pro Logic Ⅱ converts 2 channel stereo sound of CDs, etc. to 5.1 channel.

When you press once, the last used setting appears. To change it, press the button repeatedly within 3 seconds.

```
STANDARD  →  MOVIE   →   MUSIC
   ↑                        ↓
 HALL  ←  STADIUM  ←  NIGHT
```
STANDARD
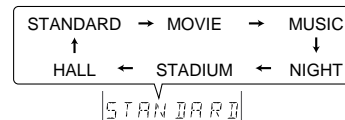
STANDARD: You can enjoy the original sound as it is.
MOVIE: The bass level is increased for powerful sound effect.
MUSIC: You can enjoy lively sound by producing the articulate sound.
NIGHT: Soft but powerful sound is achieved even at low volumes.
STADIUM: You feel like one of the audience in a stadium.
HALL: A concert hall atmosphere is created.

Notes:
● When monaural signals are received in the multi channel mode, only the centre speaker and subwoofer/amplifier unit produce sound. If played in the "STEREO" mode, the same sound is reproduced from the right and left speakers.
● When you play Dolby Digital or DTS sound with "STADIUM" or "HALL" set, surround is automatically set to "STANDARD".

Advanced Features

7

E-50

05/2/2   HT-X1W(LA)E5.fm   TINSZA048AWZZ

Changing the default setting of the amplifier

Change settings according to the connected speakers.

Speaker delay setting (See page 52.)
Speaker level setting (See page 53.)
Test tone (See page 53.)

Example:
If the right surround speaker is 3.3 m (10 feet) away from the listening position, change settings as shown below (adjust the SR).

Default setting: 2 m (6 feet)
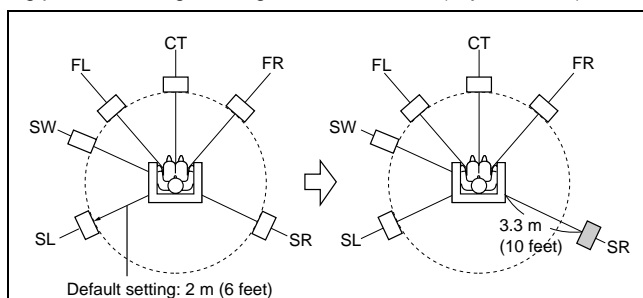
1   In "Speaker delay setting", set the right surround speaker (SR) to 3.3 m (10 feet).
2   In "Speaker level setting", slightly increase the level of the right surround speaker as it is a little farther than others (see page 53).
3   In "Test tone", check the sound from each speaker (see page 53).

Advanced Features

If you press during the operation, you can go back one step.
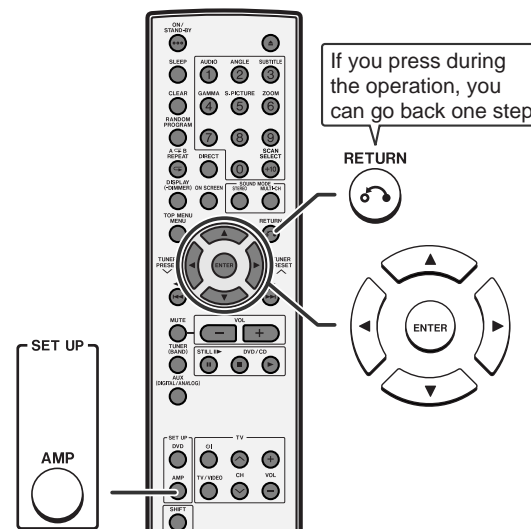
Speaker type		Delay range	Level range
FL	Front speaker (Left)	0.1 to 9.0 m	- 6 dB to + 6 dB
CT	Centre speaker	0.1 to 9.0 m	- 6 dB to + 6 dB
FR	Front speaker (Right)	0.1 to 9.0 m	- 6 dB to + 6 dB
SR	Surround speaker (Right)	0.1 to 9.0 m	- 6 dB to + 6 dB
SL	Surround speaker (Left)	0.1 to 9.0 m	- 6 dB to + 6 dB
SW	Subwoofer/amplifier unit	—	- 10 dB to + 10 dB

Default settings:
Delay - - - 2 m (6 feet)
Level - - - 0 dB (FL, CT, FR, SR, SL), + 5 dB (SW)

05/2/2   HT-X1W(LA)E6.fm   TINSZA048AWZZ

In the stop mode, you can change the amplifier settings on the TV screen.

1 Press the SET UP AMP button.

The amplifier setting screen appears.

| Amplifier Setup |
| Speaker Delay |
| Speaker Level |
| Test Tone |
| Select   ENTER Enter   Return |
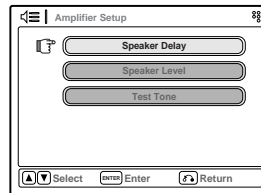
2 Press the ▲ or ▼ button to select the menu and press the ENTER button.

3 Press the ▲, ▼, ◄ or ► button to change the setting.

| Speaker Delay |
| Front   L   2.0 M |
| Center   2.0 M |
| Front   R   2.0 M |
| Surround   R   2.0 M |
| Surround   L   2.0 M |
| Select   Change   Return |
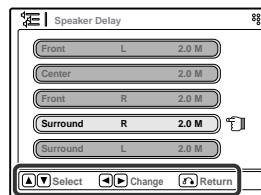
Repeat the operation as instructed.

(The number of repetition depends on the setting item.)

To change other settings, begin from step 2.

4 Press the RETURN ↩ button twice.

The setting is complete.

Notes:
- You cannot change the amplifier settings unless the input source is set to DVD/CD.
- The amplifier settings cannot be changed in the tuner mode and do not affect the tuner sound.

■ **Speaker delay setting**

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

1 Press the SET UP AMP button.

2 Within 10 seconds, press the ▲ or ▼ button to select "SP DELAY", and then press the ENTER button.
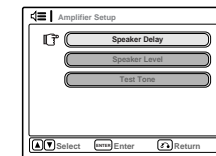
| Amplifier Setup |
| Speaker Delay |
| Speaker Level |
| Test Tone |
| Select   ENTER Enter   Return |

3 Within 10 seconds, press the ▲ or ▼ button to select the desired speaker.

The indicator of the selected speaker flashes.

| Speaker Delay |
| Front   L   2.0 M |
| Center   2.0 M |
| Front   R   2.0 M |
| Surround   R   2.0 M |
| Surround   L   2.0 M |
| Select   Change   Return |
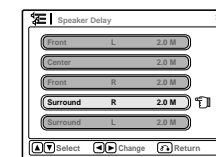
4 Within 10 seconds, press the ◄ or ► button to select the distance.
- You can change the distance in 0.1 m steps.
- To set the distance of other speakers, repeat the operation from step 3.

| Speaker Delay |
| Front   L   2.0 M |
| Center   2.0 M |
| Front   R   2.0 M |
| Surround   R   3.3 M |
| Surround   L   2.0 M |
| Select   Change   Return |
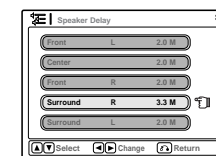
5 Press the RETURN ↩ button twice.

The setting is complete.

Note:
The speaker delay setting is not available when the surround is "STEREO" or "VIRTUAL (SURROUND)".

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Changing the default setting of the amplifier (continued)

■ Speaker level setting

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

1 **Press the SET UP AMP button.**

2 **Within 10 seconds, press the ▲ or ▼ button to select "SP LEVEL", and then press the ENTER button.**
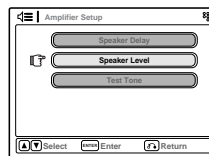
Amplifier Setup
Speaker Delay
Speaker Level
Test Tone
▲▼ Select ENTER Enter Return

3 **Within 10 seconds, press the ▲ or ▼ button to select the desired speaker.**

The indicator of the selected speaker flashes.

Speaker Level
Front   L   0 dB
Center   0 dB
Front   R   0 dB
Surround   R   0 dB
Surround   L   0 dB
Sub Woofer   0 dB
▲▼ Select ◄► Change Return
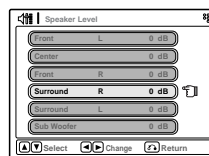
4 **Within 10 seconds, press the ◄ or ▶ button to adjust the level.**

● You can adjust the level at 1 dB intervals.

● To set the distance of other speakers, repeat the operation from step 3.

Speaker Level
Front   L   0 dB
Center   0 dB
Front   R   0 dB
Surround   R   +3 dB
Surround   L   0 dB
Sub Woofer   0 dB
▲▼ Select ◄► Change Return

5 **Press the RETURN ↶ button twice.**

The setting is complete.

Notes:
● The speaker level setting is only available for the front speakers and subwoofer/amplifier unit when the surround is "STEREO" or "VIRTUAL (SURROUND)".
● If subwoofer/amplifier unit sound is distorted, lower the subwoofer/amplifier unit level.

■ Test tone

You can check each speaker sound by a test tone. Readjust the volume set in "Speaker level setting".

1 **Press the SET UP AMP button.**

2 **Within 10 seconds, press the ▲ or ▼ button to select "TONE", and press the ENTER button.**

Amplifier Setup
Speaker Delay
Speaker Level
Test Tone
▲▼ Select ENTER Enter Return
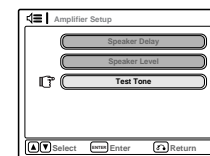
The test tone will be heard from each speaker in order, at about 2-second intervals.

Test Tone
Front   L   0 dB
Center   0 dB
Front   R   0 dB
Surround   R   +3 dB
Surround   L   0 dB
Sub Woofer   0 dB
▲▼ Select ◄► Change Return
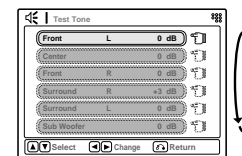
To adjust speaker levels

Whilst the test tone is heard:

Adjust the level with the ◄ or ▶ button.

Press the ▲ or ▼ to select a speaker.

3 **Press the RETURN ↶ button twice.**

The setting is complete.

Note:
The test tone is produced only from the front speakers and subwoofer/amplifier unit when the surround is "STEREO" or "VIRTUAL (SURROUND)".

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Changing the initial setting of DVD
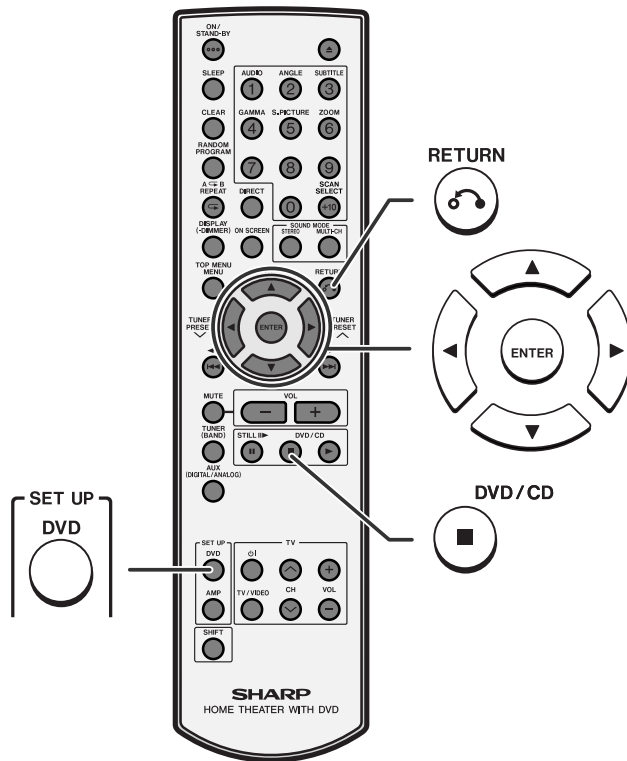
1 After pressing the ■ button, press the **SET UP DVD button.**

2 Press the cursor (▲ or ▼) button to select the main menu and press the ENTER button.

◁≡	DVD Setup	888

☞ **Language Setup**

Video Setup

Display Setup

System Setup

| ▲▼ Select | ENTER Enter | Return |
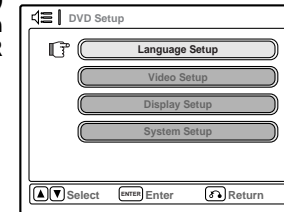
3 Press the cursor (▲ or ▼) button to select the sub-menu and press the ENTER button.

● To return to the previous display, press the RETURN ↶ button.

● For details on submenu items, see pages 55, 56.

◁≡	Language Setup	888

OSD Language	English
Audio	English
Subtitle	English
Disc menu	English

| ▲▼ Select | ENTER Enter | Return |
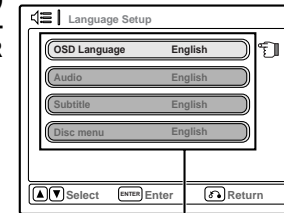
Submenu

4 Press the cursor (▲ or ▼) button to change the setting and press the ENTER button.

● To return to the previous display, press the RETURN ↶ button.

● To change other settings, begin from step 2.

5 Press the **SET UP DVD button.**

The new setting is memorised.

Note:
Settings are retained even if the system is set to the stand-by mode.

Advanced Features

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Changing the initial setting of DVD (continued)

Advanced Features

Setting	Selectable parameters (* indicates initial settings.)		Description	Reference page
Language Setup	OSD Language	English* ⋮ 中文	A language for screen display can be set, such as for initial settings or messages.	–
	Audio	English* ⋮ Other	A language for audio can be set. You can specify a language for conversation and narration.	
	Subtitle	English* ⋮ Other Off	A language for subtitle can be set. The subtitles are displayed in a specified language.	
	Disc menu	English* ⋮ Other	A language for disc menus can be set. Menu screens are displayed in a specified language.	
Video Setup	TV screen	4:3 PS 4:3 LB* 16:9	The screen mode should be set according to the connected TV type. **4:3 PS** When playing a wide image (16:9) disc, the left and right sides of the image are cut (pan scan) to display a natural-looking 4:3 size image. A 4:3 disc is played in 4:3. **4:3 LB** When playing a wide image (16:9) disc, black bands are inserted at the top and bottom and you can enjoy full wide images (16:9) on a 4:3 size TV. A 4:3 disc is played in 4:3. **16:9** A wide image (16:9) is displayed when playing a wide image (16:9) disc. ● When playing a 4:3 image disc, the image size depends on the setting of the connected TV. ● If you play back a wide image (16:9) disc with the main unit connected to a 4:3 TV, images appear stretched vertically.	–
	TV type	PAL(*1) NTSC(*2) AUTO	Selects the correct colour system (TV standard). **PAL:** Select this mode for the PAL TV. **NTSC:** Select this mode for the NTSC TV. **AUTO:** Select this mode for the multi-system TV.	–

(*1) For users in Australia and New Zealand. (*2) For users in other countries.

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Setting	Selectable parameters (* indicates initial settings.)		Description	Reference page
Video Setup	Video output	Interlace* Progressive	The video output mode should be set according to the connected TV type.	P. 19
			Interlace: Select this for a non-progressive scan TV (use a video cable, S-video cable, or component video cable).	
			Progressive: Select this for a progressive scan TV (use a component video cable).	
	Picture mode	Auto Film Video Smart*	Select a mode to optimise DVD, super video CD or video CD images on a TV.	—
			Auto: Images are automatically optimised according to the video source.	
			Film: Suitable for progressive video output. Select for DVD movies, etc.	
			Video: Suitable for interlaced video output. Select for DVD karaoke, super video CD, video CD, etc.	
			Smart: Optimise special effects for progressive video output.	
Display Setup	Angle mark	On* Off	Select whether to display "⌕" (On) or not (Off).	P. 34
	Screen saver	On Off*	Select whether to use a screen saver (On) or not (Off).	—
			On: Press the ■ button. After 5 minutes or more of inactivity, a screen saver appears.	
			To turn off the screen saver on the screen, press any button on the main unit or remote control.	
			Off: Cancel the screen saver setting.	
System Setup	Parental setting	Level: 1 ⋮ 8 No Limit*	Sets a restriction level for DVD viewing.	P. 57
			Level 1 - 8: The level 1 is the least strict, and the level 8 is the strictest (restriction differs depending on the country).	
	Please enter a 4-digit password. (Default setting: 6629)		**No Limit:** Parental level control is cancelled.	
		Code: USA ⋮ Australia* ⋮	Set a country code according to a parental control level of discs.	—
	Password Edit	----------	Password setting.	P. 57
	Restore Info	----------	This resets all settings to the factory defaults.	P. 57

Advanced Features

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Changing the initial setting of DVD (continued)

■ Other language settings

You can set the "Other" language for audio, subtitle, and disc menu.
(Refer to "Language code list for disc language" on page 58.)
Example: To select HU (Hungarian) as a disc menu

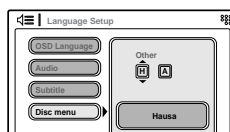**1** On the initial setting screen, select "Language Setup" (see steps 1 - 2 on page 54), and select "Disc menu" and press the ENTER button.
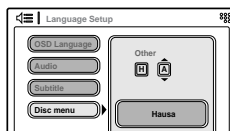
2 Press the cursor (▲ or ▼) button to select "Other" and press the ENTER button.

Language Setup
OSD Language
Audio — Swedish / Portuguese / Chinese / Japanese
Subtitle
Disc menu — Other [A A] ▶

3 Press the ▲ or ▼ button to select "H" for the first letter.

Language Setup
OSD Language
Audio — Other Ⓗ Ⓐ
Subtitle
Disc menu ▶ Hausa

4 Press the ◀ or ▶ button to move cursor for entering the second letter.

Language Setup
OSD Language
Audio — Other Ⓗ Ⓐ
Subtitle
Disc menu ▶ Hausa

5 Press the ▲ or ▼ button to select "U" for the second letter.

Language Setup
OSD Language
Audio — Other Ⓗ Ⓤ
Subtitle
Disc menu ▶ Hungarian

6 Press the ENTER button.

7 Press the RETURN ↰ button twice.

The new setting is memorised.

■ Parental level setting

1 Select "System Setup" on the setup menu screen (see steps 1 - 2 on page 54).

2 Select "Parental setting" in step 3 on page 54.

3 Press the cursor (▲ or ▼) button to select "Level" and press the ENTER button.

4 Enter a 4-digit password with the direct number buttons. (Default setting: 6629)

5 Set the parental level (see page 56) and press the ENTER button.

6 Press the SET UP DVD button.

Note:
Whilst playing a disc with parental lock, the display may appear requesting a password in order to watch some restricted scenes. In such a case, enter the password to temporarily change the parental level.

To change the password:
1 Select "System Setup" on the setup menu screen (see steps 1 - 2 on page 54).
2 Select "Password Edit" in step 3 on page 54.
3 Enter a 4-digit old password with the direct number buttons. (Default setting: 6629)
4 Enter a 4-digit new password with the direct number buttons.
5 Enter the new password again for confirmation.
6 Press the SET UP DVD button.

When you forget your password:
1 Select "System Setup" on the setup menu screen (see steps 1 - 2 on page 54).
2 Select "Restore Info" in step 3 on page 54.
3 Enter 2486 with the direct buttons.
When reset is done according to this method, all settings will be reset to the factory defaults.

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Language code list for disc language

Code	Language name	Code	Language name
AA	Afar	FY	Frisian
AB	Abkhazian	GA	Irish
AF	Afrikaans	GD	Scots Gaelic
AM	Amharic	GL	Galician
AR	Arabic	GN	Guarani
AS	Assamese	GU	Gujarati
AY	Aymara	HA	Hausa
AZ	Azerbaijani	HI	Hindi
BA	Bashkir	HR	Croatian
BE	Byelorussian	HU	Hungarian
BG	Bulgarian	HY	Armenian
BH	Bihari	IA	Interlingua
BI	Bislama	IE	Interlingue
BN	Bengali;	IK	Inupiak
	Bangla	IN	Indonesian
BO	Tibetan	IS	Icelandic
BR	Breton	IT	Italian
CA	Catalan	IW	Hebrew
CO	Corsican	JA	Japanese
CS	Czech	JI	Yiddish
CY	Welsh	JW	Javanese
DA	Danish	KA	Georgian
DE	German	KK	Kazakh
DZ	Bhutani	KL	Greenlandic
EL	Greek	KM	Cambodian
EN	English	KN	Kannada
EO	Esperanto	KO	Korean
ES	Spanish	KS	Kashmiri
ET	Estonian	KU	Kurdish
EU	Basque	KY	Kirghiz
FA	Persian	LA	Latin
FI	Finnish	LN	Lingala
FJ	Fiji	LO	Laothian
FO	Faroese	LT	Lithuanian
FR	French	LV	Latvian, Lettish

Code	Language name	Code	Language name
MG	Malagasy	SN	Shona
MI	Maori	SO	Somali
MK	Macedonian	SQ	Albanian
ML	Malayalam	SR	Serbian
MN	Mongolian	SS	Siswati
MO	Moldavian	ST	Sesotho
MR	Marathi	SU	Sundanese
MS	Malay	SV	Swedish
MT	Maltese	SW	Swahili
MY	Burmese	TA	Tamil
NA	Nauru	TE	Telugu
NE	Nepali	TG	Tajik
NL	Dutch	TH	Thai
NO	Norwegian	TI	Tigrinya
OC	Occitan	TK	Turkmen
OM	(Afan) Oromo	TL	Tagalog
OR	Oriya	TN	Setswana
PA	Panjabi	TO	Tonga
PL	Polish	TR	Turkish
PS	Pashto, Pushto	TS	Tsonga
PT	Portuguese	TT	Tatar
QU	Quechua	TW	Twi
RM	Rhaeto-Romance	UK	Ukrainian
RN	Kirundi	UR	Urdu
RO	Romanian	UZ	Uzbek
RU	Russian	VI	Vietnamese
RW	Kinyarwanda	VO	Volapuk
SA	Sanskrit	WO	Wolof
SD	Sindhi	XH	Xhosa
SG	Sango	YO	Yoruba
SH	Serbo-Croatian	ZH	Chinese
SI	Singhalese	ZU	Zulu
SK	Slovak		
SL	Slovenian		
SM	Samoan		

Advanced Features

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Sleep operation

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

SLEEP

Advanced Features

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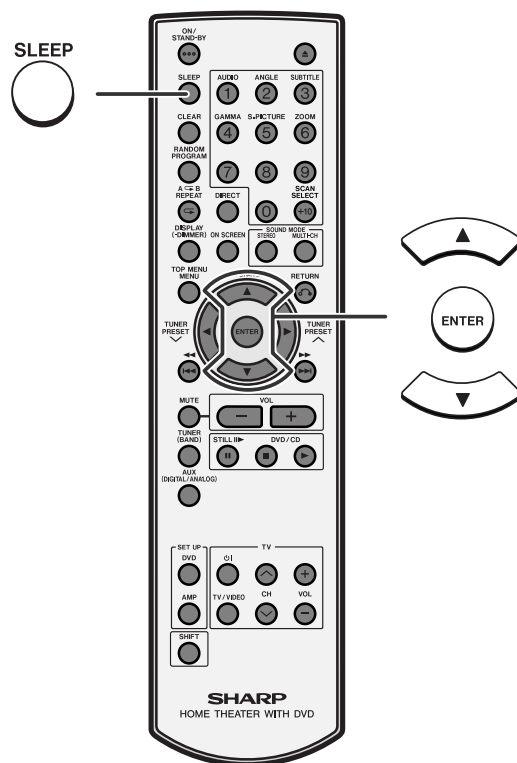
1	**Play back the desired sound source.**
2	**Press the SLEEP button and within 8 seconds, press the ENTER button.**

SLEEP OFF ⇨ SLEEP 3:00

To change the sleep time:

Whilst the sleep time is displayed, press the ▼ or ▲ button.

(Maximum: 3 hours - Minimum: 5 minutes)

→ 3:00 ⟶ 2:00 ⟶ 1:30 ⟶ 1:00 ─
(cancel) ← 0:05 ⟵ 0:10 ⟵ 0:15 ⟵ 0:30 ←
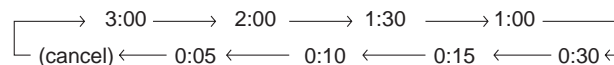
3	**Within 30 seconds, press the ENTER button.**
4	**The system will enter the power stand-by mode automatically after the preset time has elapsed.**
	The volume will turn down 30 seconds before the sleep operation finishes.

To confirm the remaining sleep time:
Press the SLEEP button whilst the sleep timer is set.
The remaining sleep time is displayed for about 8 seconds.

To cancel the sleep operation:
Press the ON/STAND-BY button whilst the sleep timer is set.

Audio connection to other equipment

You can hear the sound of other equipment via this product. Connect the DVD player, VCR or digital tuner to TV directly to receive the images (refer to the operation manual of each equipment).
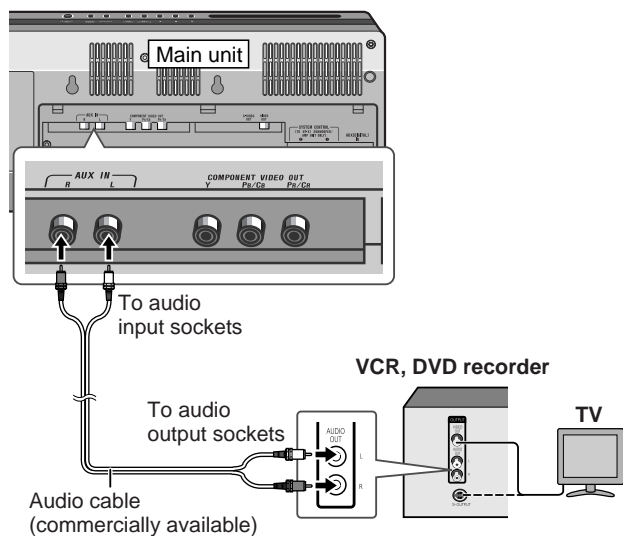
Caution:
Turn off the other equipment before making this connection.

Notes:
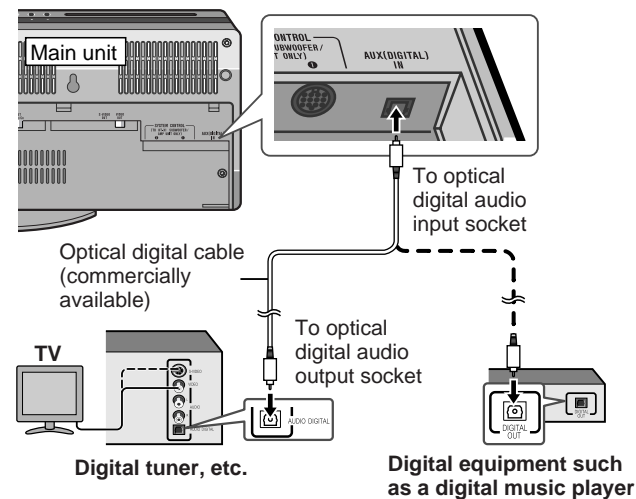- Change the audio between analogue and digital with the AUX (DIGITAL/ANALOG) button.
- Insert the plugs fully to avoid fuzzy pictures or noise.

■ Connection for the analogue sound (VCR, etc.)

To audio
input sockets

VCR, DVD recorder

To audio
output sockets

TV

Audio cable
(commercially available)

■ Connection for the digital tuner sound (or other optical digital equipment such as an MD player)

If the digital equipment has an optical output socket, you can enjoy better sound by connecting it to the optical digital input socket of the main unit using the optical digital cable.

To optical
digital audio
input socket

Optical digital cable
(commercially
available)

To optical
digital audio
output socket

TV

Digital tuner, etc.

**Digital equipment such
as a digital music player**

Optical digital socket cap
When using the optical digital socket, remove the cap first. After using the socket, replace the cap.
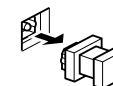
Note:
When connecting with an optical digital cable, set the digital output of the digital tuner to PCM. Refer to the operation manual of the digital tuner.

Advanced Features

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To install the main unit on the wall

Preparation:
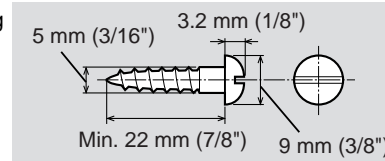
Remove the stand from the main unit (perform steps 1 - 2 on page 15).

Sharp has designed the main unit so you can hang it on the wall.
Use appropriate screws (not supplied). See the illustration on the right for size and type.

3.2 mm (1/8")
5 mm (3/16")
Min. 22 mm (7/8")
9 mm (3/8")

1 **Drive two screws into the wall for main unit, as shown in the illustration.**

Make sure that both the screw and the wall can support a load of 2.2 kg (4.9 lbs.).

Drive the screws, so the screw head extends about 5.5 mm (7/32") out from the wall.

5.5 mm (7/32")
Wall mounting screw
Min. 16.5 mm (21/32")
Wall surface
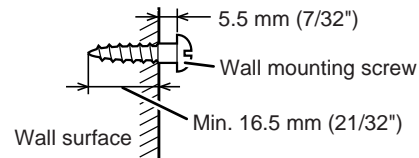
2 **Fix the pattern paper and drive two screws into the wall with a distance of 130 mm (5-3/25") in between.**

130 mm (5-3/25")
Pattern paper for main unit
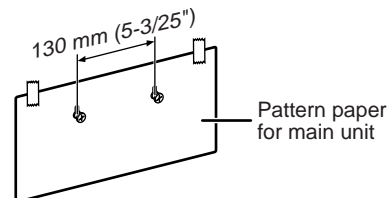
3 **Tighten the screws and remove the paper. Hook the main unit on the screw heads and make sure it is secure.**

Wall surface
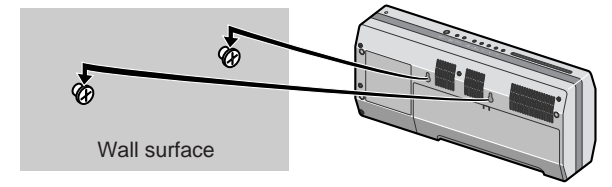
CAUTION:
- Make sure to prevent the main unit [2.2 kg (4.9 lbs.)] from falling when mounting on the wall.
- Before mounting, check the wall strength. (Do not put to the veneer plaster or whitewashed wall. The main unit may fall.) If it is not clear, consult with a qualified service technician.
- Mounting screws are not supplied. Use appropriate ones.
- Check all mounting screws for looseness and that they are engaged in the main unit.
- Mount the main unit on the wall with 2 screws.
- Select a good location. If not, accidents may occur or the main unit may get damaged.
- Avoid placing on a bed, sofa, water tank, sink and hallway wall.
- SHARP is not responsible for accidents resulting from improper installation.

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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.

■ General

Symptom	Possible cause
The power is not turned on.	● Is the system unplugged? ● Are the system connection cables disconnected?
No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected?
The sounds from speakers are not well balanced.	● Are the speaker wires connected to the wrong channels?
Noise is heard during playback.	● Move the system away from any computers or mobile phones.
When a button is pressed, the system does not respond.	● Set the system to the power stand-by mode and then turn it back on. ● If the system still malfunctions, reset it. (Refer to page 63.)
Interference or noise occurs on the TV image.	● Is the system placed near TV with internal aerial? Use an external aerial.
The display on the main unit is dark.	● Is the display in the dimmer mode?
No images are displayed.	● Is TV turned on? ● Is the TV input switched on? ● The video output mode may not match the sockets you are using. Change the mode as follows. In the stop mode, press the SHIFT button and SCAN SELECT button on the remote control a few times (see page 19).

■ DVD player

Symptom	Possible cause
Even though a disc is loaded, "No Disc" is displayed.	● Is the disc loaded upside down? ● Is the disc very dirty? ● Does the disc satisfy the standards? ● Is the system located near excessive vibrations?
Playback sounds are skipped.	● Is condensation formed inside the system?
The control buttons do not function. Music or video playback is interrupted.	● Is the disc very dirty? ● Does the disc satisfy the standards? ● Is the system located near excessive vibrations? ● Is condensation formed inside the system?
Pictures and sound are skipped.	● Is the disc very dirty? ● Is the system located near excessive vibrations? ● Is condensation formed inside the system?
The system does not operate even if the power is on.	● Is a disc other than a DVD (region number 4 or ALL), super video CD, video CD, audio CD, CD-R or CD-RW loaded?
Images cannot be played back. (Sound is not heard.)	● Are the video and audio cables connected improperly? ● Is a disc other than a DVD (region number 4 or ALL), super video CD, video CD, audio CD, CD-R or CD-RW loaded? ● Is the disc very dirty? ● Is the disc loaded upside down? ● Is the optical pickup dirty? ● Is the TV input set to video (VIDEO 1, VIDEO 2, etc.)? ● Is the system turned on?

References

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Troubleshooting chart (continued)

■ Tuner

Symptom	Possible cause
The radio makes unusual noises continuously.	● Is the system placed near the TV or computer? ● Is the FM aerial or AM loop aerial placed properly? Move the aerial away from the AC power lead if it's located nearby.
The preset channel cannot be recalled.	● Did you remove the plug from the wall socket, or did a power failure occur? Set the channel again.

■ Remote control

Symptom	Possible cause
The remote control does not operate.	● Is the battery polarity correct? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Are there any obstructions in front of the main unit? ● Is the remote control sensor exposed to strong light (inverter fluorescent light, direct sunlight, etc.)? ● Is the remote control for another equipment used simultaneously?
The system cannot be turned on with the remote control.	● Is the AC power lead of the subwoofer/amplifier unit plugged in? ● Are the batteries inserted?

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (laser pickup, etc.) or on the transmitter on the remote control.
Condensation may cause the system to malfunction. If this happens, leave the power on with no disc in the system until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the system.

■ 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:
1   Set the system to the stand-by mode and turn the power on again.
2   If the system is not restored in the previous operation, unplug and plug in the subwoofer/amplifier unit, and then turn the power on.

Note:
If neither operation above restores the system, clear all the memory by resetting it.

■ Clearing all the memory (reset)
1   Press the ON/STAND-BY button to enter the power stand-by mode.
2   Whilst pressing down the ■ button and the FUNCTION button, press the ON/STAND-BY button until "SYS RESTORE" appears.

Caution:
When you reset, all data is deleted and the settings return to the default. (DVD initial settings are retained.)

Maintenance

■ Cleaning the cabinet

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

Caution:
- 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 each component. It may cause malfunctions.
- Since the disc insertion slot faces upward, dust may accumulate on it. Clean it with a cotton swab, etc.
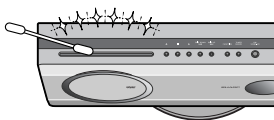
■ Care of discs

Discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your disc collection and player.
- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the discs by the edges. Fingerprints, dirt, or water on the discs can cause noise or mistracking. If a disc is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.

NO   **YES Correct**
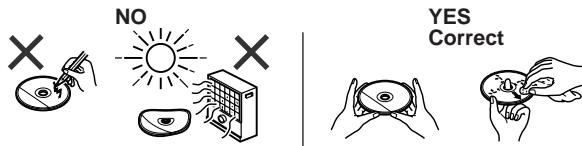
Error indicators and warnings

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

| TV screen	Meaning
Disc Error	The disc cannot be played with this system or it is loaded in an incorrect way.
Wrong Region	The region number of the DVD is neither "4" nor "ALL".
⊘	The disc does not support the operation described in this operation manual.

Optional accessory

Use only the specified optional accessory to operate this product properly.
For speaker installation, read instructions supplied with stands.

FLOOR SPEAKER STAND

Model: AD-AT11ST

References

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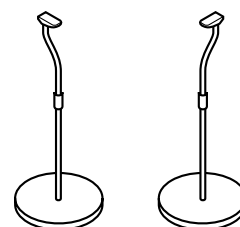
Specifications

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.

References

■ Main unit

Dimensions	**Including the stand**
	Width: 430 mm (17") Height: 192 mm (7-5/8") Depth: 100 mm (4")
	Excluding the stand
	Width: 430 mm (17") Height: 171 mm (6-3/4") Depth: 88 mm (3-1/2")
Weight	2.2 kg (4.9 lbs.)
Frequency range	FM: 88 - 108 MHz
	AM: 531 - 1,602 kHz
Video output terminals	Video output: RCA type × 1
	S-video output: S-terminal × 1
	Component video output: RCA type × 3 (Y/PB/PR)
Audio output terminal	Headphones: 16 - 50 ohms (recommended: 32 ohms)
Audio input terminals	Audio input (AUX): RCA type × 2
	Optical digital input: Square type × 1
Other terminal	System control × 2
Signal system	PAL/NTSC
Supported disc types	DVD (region number 4 or ALL), DVD-R/RW (video mode), DVD+R/RW (video mode), super video CD, video CD, audio CD, CD-R, CD-RW
Video signal	Horizontal resolution: 500 lines
	S/N ratio: 70 dB

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Audio signal	Frequency characteristics	Linear PCM DVD:
		4 Hz to 22 kHz (sampling rate: 48 kHz)
		4 Hz to 44 kHz (sampling rate: 96 kHz)
		CD: 4 Hz to 20 kHz
	S/N ratio	CD: 96 dB (1 kHz)
	Dynamic range	Linear PCM DVD: 95 dB
		CD: 94 dB
	Total harmonic distortion ratio	0.006 % maximum

■ Front speakers

Type	Full range system (magnetic shield)
	8 cm (3-1/8") speaker × 1
Maximum input power	100 W
Rated input power	50 W
Impedance	4 ohms
Dimensions	Width: 105 mm (4-1/8") Height: 205 mm (8-1/8") Depth: 105 mm (4-1/8")
Weight	0.9 kg (2.0 lbs.)/each

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■ Surround speakers

Type	Full range system
	8 cm (3-1/8") speaker × 1
Maximum input power	100 W
Rated input power	50 W
Impedance	4 ohms
Dimensions	Width: 105 mm (4-1/8")
	Height: 205 mm (8-1/8")
	Depth: 105 mm (4-1/8")
Weight	0.75 kg (1.7 lbs.)/each

■ Centre speaker

Type	Full range system (magnetic shield)
	8 cm (3-1/8") speaker × 1
Maximum input power	100 W
Rated input power	50 W
Impedance	4 ohms
Dimensions	Width: 185 mm (7-1/4")
	Height: 123 mm (4-7/8")
	Depth: 115 mm (4-1/2")
Weight	0.9 kg (2.0 lbs.)

■ Subwoofer/amplifier unit
Amplifier:

Power source	AC 220 - 240 V, 50/60 Hz
Power consumption	Power on: 160 W
	Power stand-by: 0.8 W
Dimensions	Width: 200 mm (7-7/8")
	Height: 380 mm (15")
	Depth: 443 mm (17-1/2")
Weight	10.5 kg (23.2 lbs.)
Speaker terminals	Front speakers, centre speaker and surround speakers: more than 4 ohms
Other terminals	System control × 2
Rated power output	Front speakers:
	RMS: 100 W (50 W + 50 W)
	(4 ohms at 1 kHz, 10 % T.H.D.)
	Centre speaker:
	RMS: 50 W
	(4 ohms at 1 kHz, 10 % T.H.D.)
	Surround speakers:
	RMS: 100 W (50 W + 50 W)
	(4 ohms at 1 kHz, 10 % T.H.D.)
	Subwoofer:
	RMS: 50 W
	(4 ohms at 100 Hz, 10 % T.H.D.)

Subwoofer:

Type	Bass reflex, 1 way system
	16 cm (6-1/2") woofer × 1
Maximum input power	100 W
Rated input power	50 W

References

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05/2/2   HT-X1W(LA)E7.fm   TINSZA048AWZZ

MEMO/MEMORÁNDUM

05/2/2   HT-X1W(LA)_MEMO.fm   TINSZA048AWZZ

MEMO/MEMORÁNDUM

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UP

DOWN

HT-X1W | **HOME THEATER WITH DVD** **SHARP**

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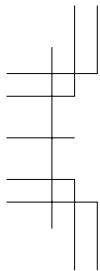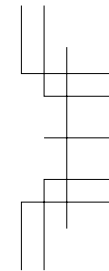
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