# **SHARP**

# **HOME THEATER WITH DVD**

MODEL

HT-X1

**OPERATION MANUAL** 

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-X1 Home Theater with DVD consisting of HT-X1 (main unit and subwoofer/amplifier unit), CP-X1F (front speakers), CP-X1C (center speaker) and CP-X1S (surround speakers).













# **SPECIAL NOTES**



#### CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

#### **Explanation of Graphical Symbols:**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

#### CAUTION:

THIS PRODUCT IS A CLASS 1 LASER PRODUCT. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. AS THE LASER BEAM USED IN THIS PRODUCT IS HARMFUL TO THE EYES, DO NOT ATTEMPT TO DISASSEMBLE THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

#### Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

#### NOT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### WARNING

FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

#### FOR YOUR RECORDS

For your assistance in reporting this unit in case of loss or theft, please record below the model number and serial number which are located on the rear of the subwoofer/amplifier unit. Please retain this information.

Model number	
Place of purchase	

# IMPORTANT SAFETY INSTRUCTIONS

HT-X1

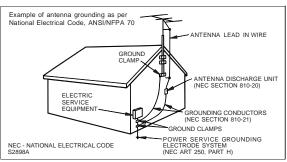
- 1 Read Instructions All the safety and operating instructions should be read before the product is operated.
- 2 Retain Instructions The safety and operating instructions should be retained for future reference.
- 3 Heed Warnings All warnings on the product and in the operating instructions should be adhered to.
- 4 Follow Instructions All operating and use instructions should be followed.
- 5 Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- **6** Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7 Water and Moisture Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8 Accessories Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- 9 A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



- 10 Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 11 Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12 Grounding or Polarization This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
  - Alternate Warnings This product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
- 13 Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- 14 Protective Attachment Plug The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.

# **IMPORTANT SAFETY INSTRUCTIONS (continued)**

15 Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- 16 Lightning For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- 17 Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal
- 18 Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

- 19 Object and Liquid Entry Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 20 Servicing Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 21 Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a) When the power-supply cord or plug is damaged,
  - b) If liquid has been spilled, or objects have fallen into the product,
  - c) If the product has been exposed to rain or water,
  - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
  - e) If the product has been dropped or damaged in any way, and
  - f) When the product exhibits a distinct change in performance this indicates a need for service.
- 22 Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 23 Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 24 Wall or Ceiling Mounting The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 25 Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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

#### NOTES

- Licensed under one or more of U.S. Pat. 4,972,484, 5,214,678, 5,323,396, 5,530,655, 5,539,829, 5,544,247, 5,606,618, 5,610,985, 5,740,317, 5,777,992, 5,878,080 or 5,960,037.
- 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.

#### **ENERGY STAR® Program Information**



Products that have earned the ENERGY STAR® are designed to protect the environment through superior energy efficiency.

ENERGY STAR

ENERGY STAR® is a U.S. registered mark.

#### Copyright Information:

- Unauthorized 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 video tape.

#### **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.

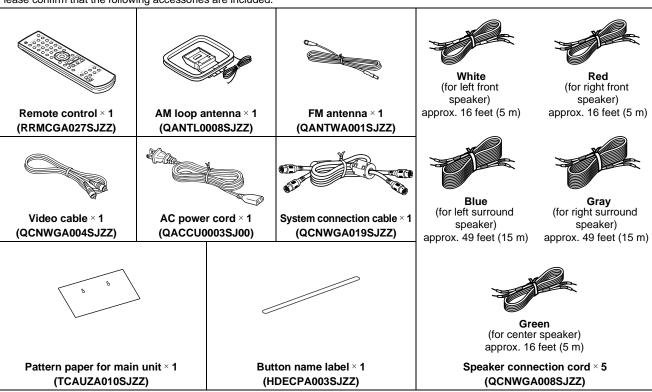
This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

#### **NOTICE FOR PROGRESSIVE SCAN OUTPUTS:**

CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525P AND 625P DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

# **Accessories**

Please confirm that the following accessories are included.



#### Caution:

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

#### Note:

Only the above accessories are included.

# General Information

# Contents

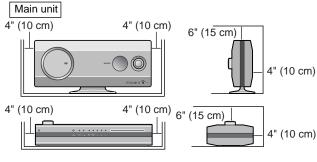
Page ■ General Information
Precautions         8           Description of discs         9 - 11           Controls and indicators         .12 - 16
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Basic operation To locate the beginning of a chapter/track (skip)
Useful operation To change the subtitle language
(A-B repeat)       40         To change the display on the main unit       40         To change the display on TV screen       41

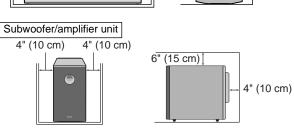
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#### **Precautions**

#### ■ General

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





 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 equipment (home computers, facsimiles, etc.) which generates electrical noise.



- Do not place anything on top of the components.
- Do not expose the system to moisture, to temperatures higher than 140°F (60°C) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power cord from the AC outlet. Plug the AC power cord 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 AC outlet, as pulling the cord 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.



 This system should only be used within the range of 41°F - 95°F (5°C - 35°C).

#### Warning:

The voltage used must be the same as that specified by this system. Using this product with a higher voltage other than that specified is dangerous and may result in a fire or other types of accident, causing damage. SHARP will not be held responsible for any damage 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 efficiency, location and various other factors. It is advisable to avoid exposure to high volume levels, which occurs while turning the unit on with the volume control setting up high, or while continually listening at high volumes.

# **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		
for NTSC system	for NTSC system	for NTSC system	for NTSC system	for NTSC system		
VIDEO VIDEO		R W	<b>R</b> DVD+R	RW DVD+ReWritable		
	Recorded in the video mode (*1) (*2) Recorded in the eo 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.

	CD				
Audio CD	Audio CD-R	Audio CD-RW			
COMPACT DIGITAL AUDIO	COMPACT DIGITAL AUDIO Recordable	DIGITAL AUDIO 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 11.

#### 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 for NTSC system.

CD ... Indicates audio CDs.

Indicates CD-R/RW with MP3 recording.

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

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

# **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

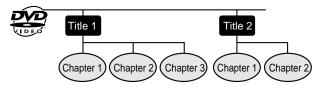
DVD discs are programmed with region numbers indicating countries in which they can be played. This system can play discs with region number "1" or "ALL". Region number (playable area number)





#### 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.

#### Audio CD

#### Track

The audio CD is composed of "tracks". Tracks are equivalent to songs on a CD.



#### ■ MP3/WMA/JPEG format on CD-R/CD-RW

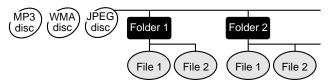
An MP3 file is audio data compressed in the MPEG 1 audio layer 3 format. MP3 files have the extension ".mp3". (Files with the extension ".mp3" may not play, or noise may occur during playback if not recorded in the MP3 format.)

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".



#### ■ Icons used on DVD discs

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

_	•	1 , 0 ,			
	Display	Description			
	corded on the DVD	Select a type according to the connected TV type.			
Type of su	ubtitles 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 dif- ferent angles.			
	of audio tracks and auding systems  Example: 1: Original <english></english>	The number of audio tracks and audio recording systems are indicated.  You can change the audio language.			
	(Dolby Digital 5.1 Surround) 2. German (Dolby Digital 2 ch)	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 num DVD-Audio ber "1" or "ALL".

  DVDs with PAL system

  DVDs with SECAM system

  DVDs with MPEG sound

  DVD-ROM

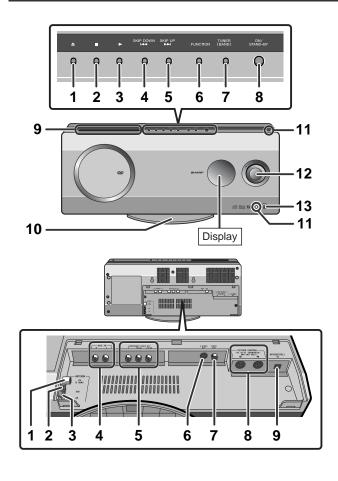
- DVD-RAM

- CDG
- Super video CD/Video CDPhoto CDCD-ROM

- SACD
- Discs recorded in special formats, etc.

- 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 set-
- This DVD player adopts the NTSC system. Discs that were made in foreign countries may not be played back. Check the recording system before purchasing discs.
- You cannot play illegally produced discs.
- A disc with scratches or fingerprints may not play properly. Refer to "Care of discs" (page 65) and clean the disc.

# **Controls and indicators**



#### ■ Top and front panel

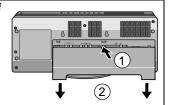
	Reference page
1. Disc Eject Button	29
2. Stop Button	28, 29
3. Play Button	29
4. Chapter (Track) Skip Down or Fast Reverse	Button 31
5. Chapter (Track) Skip Up or Fast Forward Bu	utton 31
6. Function Selector Button	49
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8. On/Stand-by Button	2
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10. Main Unit Stand	18
11. Remote Sensor	20
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13. Headphone Jack	24

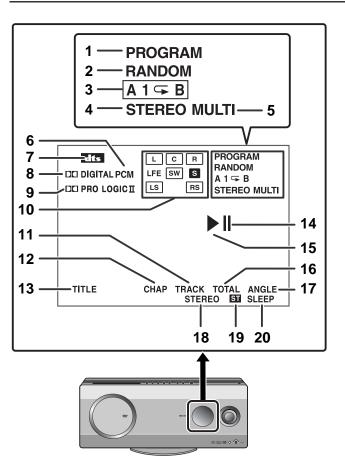
# ■ Rear panel

Reference page
1. FM 75 Ohm Antenna Jack
2. Antenna Ground Terminal
3. AM Antenna Terminal
4. Auxiliary (Audio Signal) Input Jacks
5. Component Video Output Jacks
6. S-video Output Jack
7. Video Output Jack
8. System Connection Jacks
(to subwoofer/amplifier unit)
9. Optical Digital Audio Input Jack

# Removing the back cover of the main unit:

For system connections, remove the back cover first.

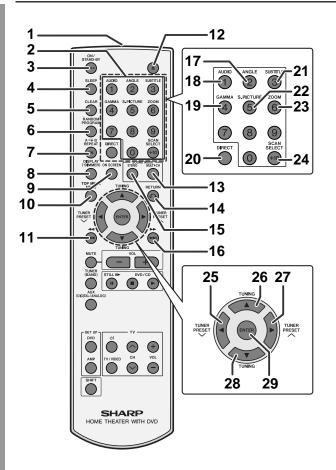




## ■ Display

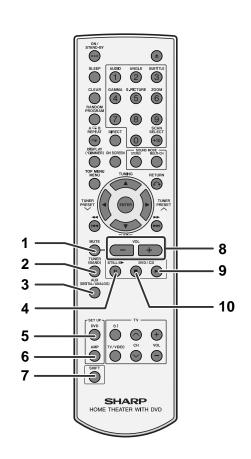
Refer	ence page
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2. Random Play Indicator	
3. Repeat/One Track Repeat/A - B Repeat Indicators	
4.2 channel Stereo Sound Mode Indicator	
5. Multi Channel Sound Mode Indicator	
6. PCM Signal Indicator	
7. DTS Signal Indicator	
8. Dolby Digital Signal Indicator	
9. Dolby Pro Logic II Indicator	
0. Audio Signal/Speaker Indicators	
1. Track Indicator	
2. Chapter Indicator	
3. Title Indicator	
4. Pause Indicator	29
5. Play Indicator	
6. Total Indicator	
7. Angle Indicator	37
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р	

# **Controls and indicators (continued)**



#### ■ Remote control

	ererence page
1. Remote Control Transmitter	
2. Direct Number Buttons	32
3. On/Stand-by Button	26
4. Sleep Button	60
5. Clear Button	
6. Random or Program Button	38. 42
7. A - B Repeat or Repeat Button	
8. Unit Display Select or Dimmer Button	
9. On Screen Display On/Off Button	
10. Top Menu or Menu Button	
11. Chapter (Track) Skip Down or Fast Reverse B	
12. Disc Eject Button	
13. Multi Channel Select Button	
14. Return Button	
15. Stereo (2 channel) Select Button	
16. Chapter (Track) Skip Up or Fast Forward Butto	
17. Angle Button	
18. DVD Audio Language Select or	
CD Audio Output Select Button	34
19. Gamma Button	34
20. Direct Button	
21. Subtitle Button	
22. Super Picture Button	
23. Zoom Button	
24. Progressive Scan Mode Select Button	
25. Tuner Preset Down or Cursor Button	
26. Tuning Up or Cursor Button	
27. Tuner Preset Up or Cursor Button	
28. Tuning Down or Cursor Button	
29. Enter Button	
29. Enter Button	



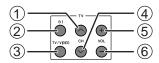
#### ■ Remote control

	n	CI	C	C	 U	5 I	υa	ye
1. Mute Button								27
2. Tuner (Band) Button								46
3. Auxiliary Button								61
4. Frame Advance or Pause Button						2	9,	36
5. DVD Initial Setting Button								55
6. Amplifier Initial Setting Button								50
7. Shift Button								33
8. Volume Up and Down Buttons								27
9. Play Button								29
10. Stop Button						2	8,	29

#### TV Operation Buttons

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

However, some models cannot be operated.

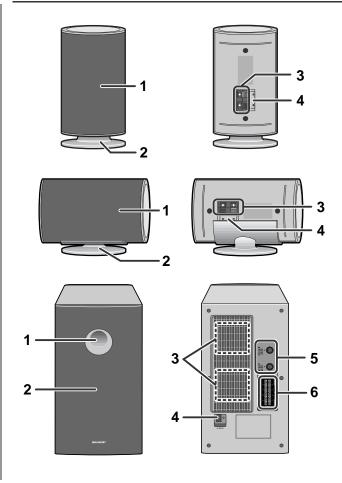


 TV Channel Up Button Switches the TV channel up.

"STAND-BY".

- ② TV On/Stand-by Button Sets the TV power to "ON" or
- ③ TV/VCR Input Select Button Switches the input to TV or VCR.
- TV Channel Down Button Switches the TV channel down.
- ⑤ TV Volume Up Button Turns up the TV volume.
- ® TV Volume Down Button Turns down the TV volume.

# **Controls and indicators (continued)**



# **■** Front/surround speakers

1. Speaker	•	Reference page
	Stand	21
3. Speaker	Terminals	
4. Color La	oel	
<ol> <li>White</li> </ol>	Left Front Speaker	
② Red	Right Front Speaker	
3 Blue	Left Surround Speaker	
Grav	Right Surround Speaker	

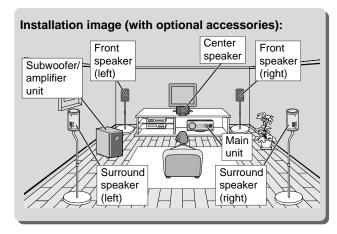
#### ■ Center speaker

-	Reference page
1. Speaker	
2. Speaker Stand	
3. Speaker Terminals	
4. Color Label: Green	•

# ■ Subwoofer/amplifier unit

-	R	ef	e	re	nc	ce	pa	ge
1. Bass Reflex Duct							•	•
2. Woofer								
3. Cooling Fan	 							25
4. AC Power Input Jack	 							25
5. System Connection Jacks (to main unit) .	 					. 1	19,	20
6. Speaker Terminals	 					. 1	19,	21

# **System installation**



#### ■ Magnetically shielded speakers

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

#### If color variation occurs...

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

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

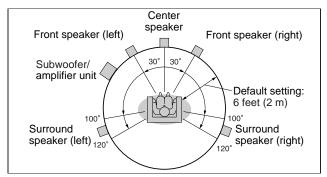
Move the speakers further away from the TV. Refer to the user's manual of the TV for details.

#### Note:

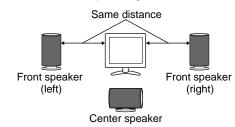
The surround speakers and subwoofer/amplifier unit are not magnetically shielded.

#### ■ 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.



- The default distance is set to 6 feet (2 m). If speakers cannot be placed at equal distances, refer to "Speaker delay setting" (see page 53).
- Place the TV halfway between the front speakers.
- It is recommended that the center speaker be placed near the television.
- Place the surround speakers at a position just above the height of your ears.
- Place the subwoofer/amplifier unit on a sturdy and stable surface as it tends to vibrate while reproducing bass sounds.

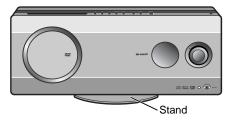


# Main unit preparation

#### ■ Installation methods

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

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



You can also place the main unit horizontally or mount it on the wall without the stand.

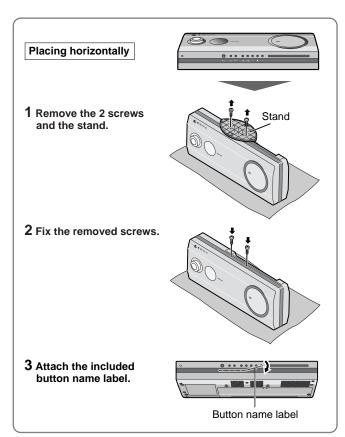
(See page 62 for mounting it on the wall.)

#### 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 as the disc may not be read or may be damaged.



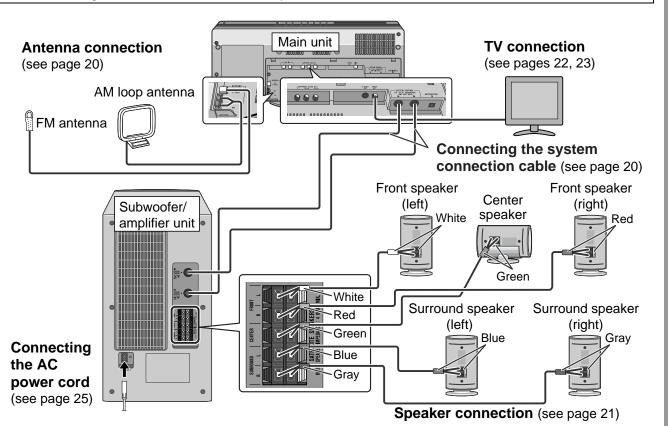
#### Note:

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

# Preparation for Use

# **System connections**

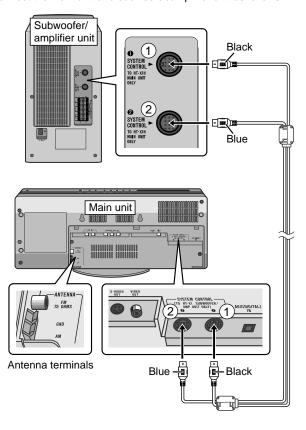
- Make sure to disconnect the AC power cord from the wall outlet before you connect/disconnect cables to/from jacks inside the back cover of the main unit or jacks of the subwoofer/amplifier unit.
- After connecting cables, attach the back cover and operate the main unit.



# System connections (continued)

#### ■ Connecting the system connection cable

Connect the main unit and subwoofer/amplifier unit as follows.

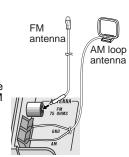


#### Antenna connection

#### Supplied FM antenna:

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

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



Placing the antenna on the system or near the AC power cord may cause noise pickup. Place the antenna away from the system for better reception.

#### Installing the AM loop antenna:

< Assembling >

< Attaching to the wall >



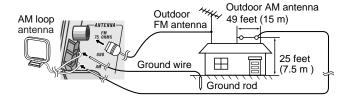


Screws (not supplied)

#### Outdoor FM or AM antenna:

Use an outdoor FM or AM antenna if you require better reception. Consult your dealer.

When using an outdoor AM antenna, be sure to keep the wire of the AM loop antenna connected.



#### ■ Speaker connection

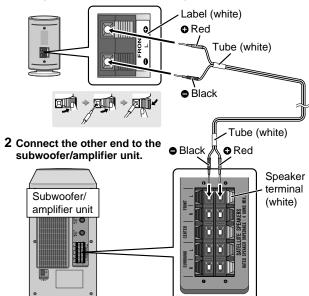
Make sure to leave the AC power cord disconnected when connecting the speakers.

To prevent accidental short-circuits between  $\oplus$  and  $\ominus$  terminals, connect the speaker wires to the speakers first and then to the subwoofer/amplifier unit.

When connecting speakers, match the colors of the back label on the speaker, to the 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.



#### Caution:

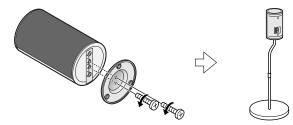
- The supplied speakers are exclusively for the HT-X1. Do not connect them to other equipment, and do not connect other speakers to the HT-X1. It may cause malfunction.
- Do not mistake the ⊕ and ⊝, and right and left terminals of the speaker wires. (The right speaker is placed on the right when you 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 of the subwoofer/amplifier unit.
- 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 65). 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.

# System connections (continued)

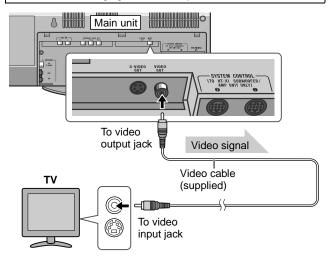
#### **■** TV connection

Three types of jacks (VIDEO OUT, S-VIDEO OUT and COMPONENT 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 jack:

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".



#### Notes:

- Change the TV input in accordance with the connected jack.
- 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.

#### Changing the video output mode:

- 1 Insert a DVD disc (steps 1 3, page 28).
- 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:



Select this for a non-progressive scan TV (use a video cable. S-video cable. or

component video cable).

Progressive Sele (No display) (use

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 jack, and this unit's video output jack 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 realize less-flicker, high-density images.

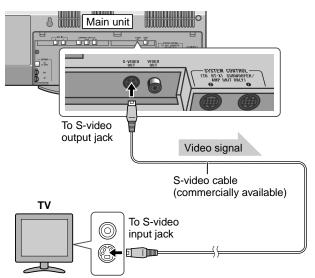
#### Compatibility of the progressive scan TV

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".

#### Connecting to a TV with an S-video input jack:

If your TV is equipped with an S-video input jack, 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 22.



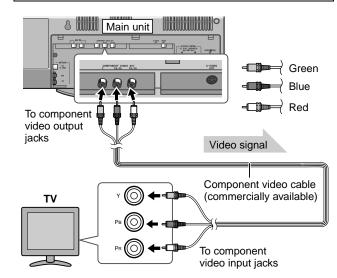
#### Note:

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

#### Connecting to a TV with component video input jacks:

If your TV is equipped with component video input jacks, 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 22.

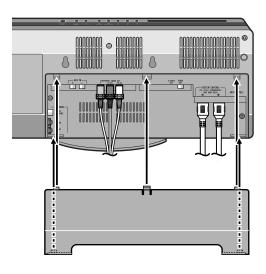


- If your TV has different indications for the component video inputs (Y, CB and CR or Y, B-Y and P-Y), connect jacks with its matching color.
- Some component video jacks designed for the high-vision system are not compatible with DVD. Do not connect this unit to those component video input jacks. (Images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

# **System connections (continued)**

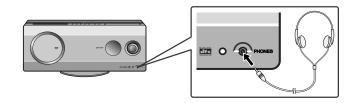
#### ■ Attaching the back cover

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



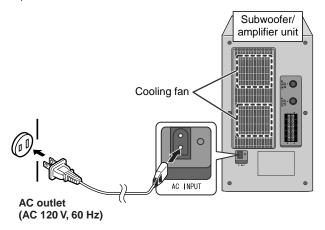
#### **■** Headphones

- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 1/8" (3.5 mm) 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.



#### ■ Connecting the AC power cord

After checking all the connections have been made correctly, plug the AC power cord to the AC power input jack of the subwoofer/amplifier unit, and then to the AC outlet.



#### Notes:

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

#### 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.

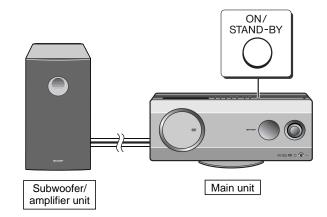
If the power does not turn on, check if the AC power cord and system connection cable are plugged in properly.

#### 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.

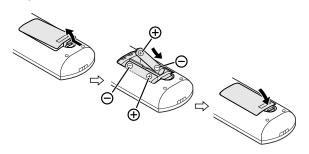


#### Remote control

#### **■** Battery installation

Use 2 "AAA" size batteries (UM-4, R03, HP-16 or similar). Batteries are not included.

- 1 Remove the battery cover.
- 2 Insert the 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  $\ominus$  battery terminal and take them out.

#### Notes concerning use:

- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter on the remote control and the 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.

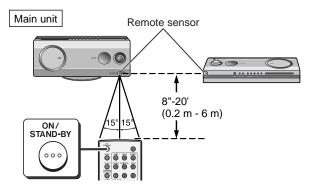
#### Test of the remote control

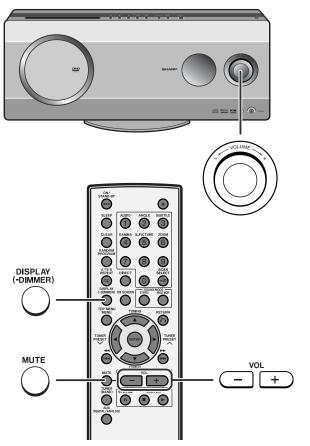
Check the remote control after checking all the connections (see pages 19 - 25).

Point the remote control directly at the remote sensor on the main

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.



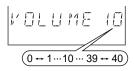


#### ■ Volume control

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

#### Remote control operation:

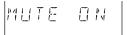
Press the VOL (+ or -) button to increase or decrease the volume.



#### ■ Muting

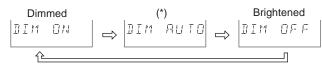
The volume is muted temporarily when pressing the MUTE button.

- Press again to restore the vol-
- The mute status is canceled when you adjust the volume.



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

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



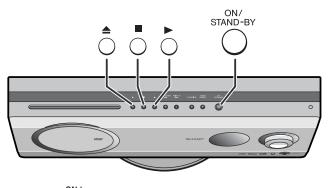
(\*) After approx. 5 seconds of DVD playback, the display dims and the original brightness returns when you stop playback. The brightness remains unchanged during playback of other media.

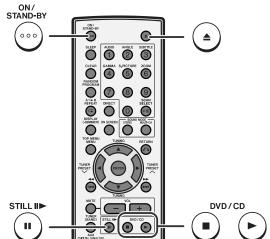
Preparation for Use

# **DVD** Operation

# Playing a disc

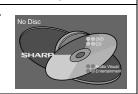
Turn on the TV, and switch the input to the "VIDEO 1" or "VIDEO 2", etc. accordingly.





DVD CD MP3 WMA JPEG

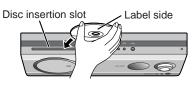
- 1 Press the ON/STAND-BY button to turn the power on.
- 2 Press the button to set the input to "DVD".

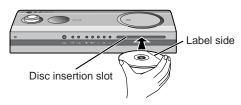


- 3 Insert a disc into the disc insertion slot with the label side toward you.
  - The disc enters automatically.

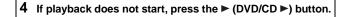
#### Notes:

- Do not push in the disc. Damage may result.
- Load an 3" (8 cm) disc gently in the middle of the insertion slot (do not use an adaptor.)

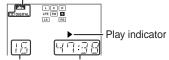




Some discs play automatically.



The sound mode in use appears during DVD playback.



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.

#### To interrupt playback:

Press the STILL II button on the remote con-

To resume playback from the same point, press the DVD/CD ▶ button.



#### To stop playback:

DVD:

Press the ■ button twice.

#### 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 3" (8 cm) discs with an adaptor. Malfunction may result.

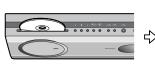


- A disc with scratches or fingerprints may not play properly. Refer to "Care of discs (page 65)" and clean the disc.
- Insert or remove the disc straight. Otherwise, damage may result.



#### To remove the disc:

- In the stop mode, press the ≜ button.
   Remove the disc.





# Playing a disc (continued)

#### Notes:

- When you turn on the power or switch the input to "DVD" initialization 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, "O" 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	While 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	ı left off.			

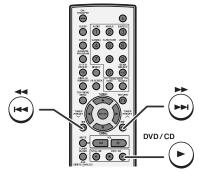
#### To cancel resume play:

Press the ■ button again.

■ Stop

- 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**



# ■ To locate the beginning of a chapter/track (skip) DVD CD MP3 WMA UPEG

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

# While a disc is playing, press the l◀◀ or ▶▶ button.

▶► Next

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

#### On DVD/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.

## ■ Fast forward/Fast reverse (search)

DVD CD MP3 WMA

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

1 While 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/audio CD:



- 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.

- 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.
- While searching on a DVD, the sound is not heard and the subtitles do not appear.
- Audio CD or MP3/WMA disc sounds will break up during search. This is not a malfunction.
- When a search is performed during 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.

# **Basic operation (continued)**

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

#### To select and play the desired title:

Playback starts from chapter 1 of the selected title.

- 1 While 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

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 Chapter number using the direct number buttons.



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.

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".

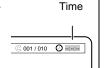
To select chapter 12, press "+10" and "2".

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 While a disc is playing, press the DIRECT button.
- 2 Within 10 seconds, select the time by pressing the cursor (◀ or ▶) button.

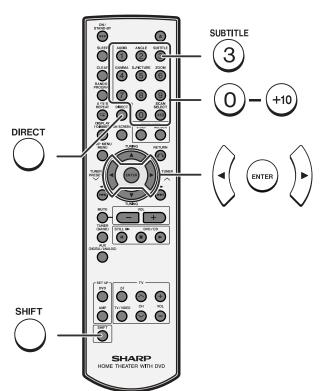


- 3 Specify the time by using the direct number buttons.
  - To specify 1 hour 23 minutes and 40 seconds, enter "012340".
  - If you enter the wrong number, start over from step 1.
- 4 Within 10 seconds, press the ENTER button.

- 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 55).



#### ■ To change the subtitle language DVD

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

While a disc is playing, press the SHIFT button and then the SUBTITLE button.
 Repeat step 1 to select the desired subtitle language.

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

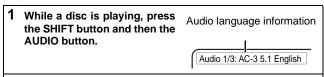
- You can select one from the subtitle languages that are recorded on a DVD.
- To hide subtitles on the screen, select "Subtitle Off".

- Some DVDs prohibit changing the subtitle language.
- If no subtitles are recorded on the disc, "O" 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.

# **Useful operation (continued)**

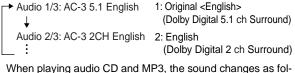
# ■ To change the audio language (audio output) DVD CD M3

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



2 Repeat step 1 to select the desired audio number.

When playing DVD, the language changes as follows:



When playing audio CD and MP3, the sound changes as follows:



#### 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.

#### 

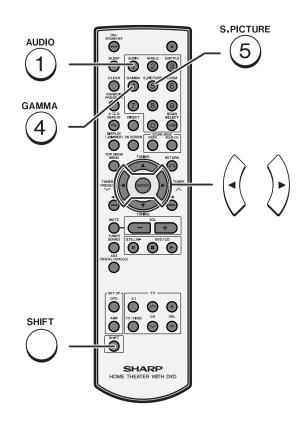
- During playback, press the SHIFT button and then the GAM-MA button to select "ON".

  "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.

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".



#### ■ To improve the image quality DVD

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



"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.

Πs	ON D

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".

## **Useful operation (continued)**

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

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

1 In the stop mode or during playback, 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.

#### 

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.

In the stop mode or during playback, press the TOP MENU/ MENU button. Example

Menu
1. Highlights
2. Start Movie

2 Press the cursor (A, ▼, ◄ 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.

#### ■ Still picture/Frame advance DVD

You can freeze the image and advance frame by frame.

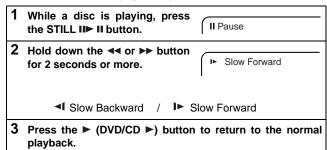
- 1 While a disc is playing, press the STILL II► II button.
- 2 Each press of the STILL II▶ II button advances the frame in the still mode.
- 3 Press the ► (DVD/CD ►) button to return to the normal playback.

#### Note:

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

#### ■ Slow-motion play DVD

You can slow down the playback speed.



#### 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 "A" appears on the TV during playback, press the SHIFT button and then the ANGLE button.

TV screen

Unit display

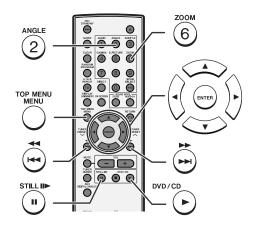
**1** 1

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. "O" 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

You can magnify images during playback.

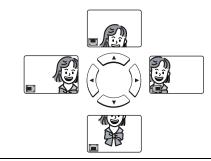
1 While a disc is playing, press the SHIFT button and then the ZOOM button.

Zoom x 1.5

2 Repeat step 1 to select the desired zoom setting.

 $Zoom x 1.5 \rightarrow Zoom x 2 \rightarrow Zoom x 3 \rightarrow Zoom off$ 

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.

- 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.

# **Useful operation (continued)**

■ To play in the desired order (programmed playback) DVD 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.

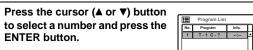


Program List

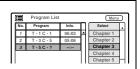
No. Program Info.

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

The chapter selection screen appears.



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



Menu

Menu

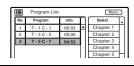
Chapter 1

Chapter 3 Chapter 4 Chapter 5

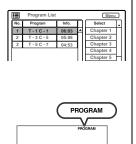
Title 1

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.



- 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 program.
  - "PROGRAM" lights up on the main unit during programmed
  - Programmed numbers are stored until a disc is removed or you turn the power off.



#### To change the programmed contents:

- 1 While stopped, press the RANDOM/PROGRAM button to show the programming screen.
- 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 program.

"Insert" Inserts a chapter, track or file above (before) the selected number of a program.

"Modify" Modifies the program.

"Delete" Deletes the selected number.

"Clear All" Deletes the program. "Exit"

Turn off the programming screen.

- Titles cannot be programmed.
- Programming cannot be performed while paused or in the playback mode.
- On some discs, programmed play does not work.

# ■ To play repeatedly (repeat play)

DVD CD MP3 WMA JPEG

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

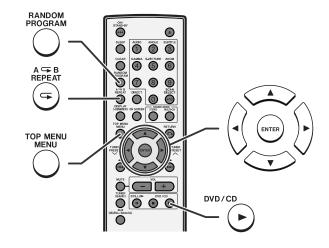
While the disc is playing, press the A ⊆ B REPEAT/⊆ but-Each time the button is pressed, the repeat play mode changes in the following order. Unit display TV screen For DVD, the mode changes as follows: → Chapter Repeat on Repeats the chapter currently playing.  $\Box$ Title Repeat on Repeats the title currently playing. Repeat off Disappear The normal playback For audio CD, the mode changes as follows: → Track Repeat on Repeats the track currently playing.  $\Box$ 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 Repeats the file currently 1 🖚 playing. ₲ Folder Rep Repeats the folder (directory) currently playing. Disc Rep  $\Box$ Repeat play of all of the files. Rep off -Disappear The normal playback

2 Select "Repeat off" by pressing the A G B REPEAT/G 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.

- Repeat play is not available on some discs.
- Repeat play is not possible during random play.



# **Useful operation (continued)**

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

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

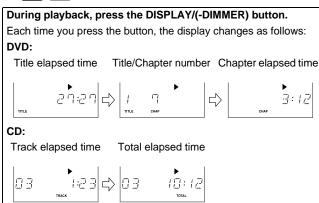
1	While a disc is playing, press t the A □ B REPEAT/□ button.	he SHIFT button and then	
	TV screen	Unit display	
	A-B Set A	A &	
	This registers the start point (A).		
2	Press the SHIFT button and then the A □ B REPEAT/□ It ton again to enter the end point (B).		
	A-B Repeat on	A ⊊ B	
	A-B repeat plays from the start poi	nt (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 audio CD is possible only within a track.
- When you press the button, the current A-B repeat play is canceled. (For DVD, press the button twice.)

# ■ To change the display on the main unit

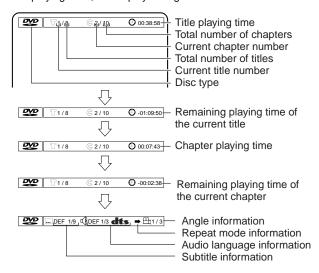


- Title/chapter numbers or elapsed time may not appear depending on the disc.
- The playing time of the disc specified on the jacket, etc. may not include silence between tracks, and may differ from that displayed on the main unit.
- Elapsed time on the display does not indicate the actual time.

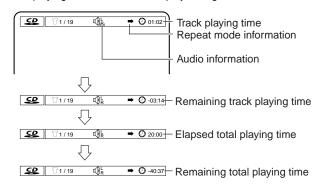
## ■ To change the display on TV screen DVD CD

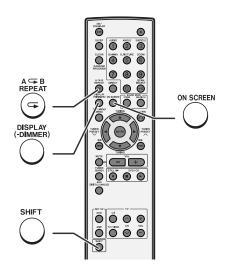
You can display or hide the operation indicators on the TV screen. While the disc is playing, press the ON SCREEN button. (The display is changed at each press of this button.)

When playing DVD, the display changes as follows:

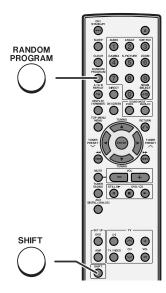


When playing an audio CD, the display changes as follows:





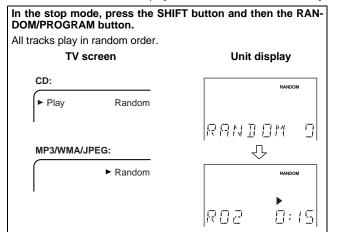
# Playing an audio CD



## ■ To play in random order (random play)

CD MP3 WMA JPEG

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



#### To cancel random play:

Press the ■ button.

- On some discs, this function cannot be used.
- You cannot set the random play while 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.

# ■ To start playback from the desired point (direct play)

To select and play the desired track: CD MP3 WMA UPEG

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

#### TV screen

#### Unit display



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".

#### Note

Direct play feature is disabled on some discs.

#### To play by specifying time (time search):

You can play tracks from the desired time point during playback.

While the disc is playing, press the DIRECT button.

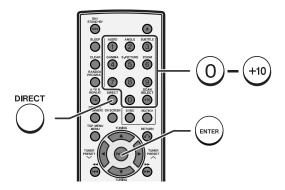
Time

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.
- Within 10 seconds, press the ENTER button.

#### Note:

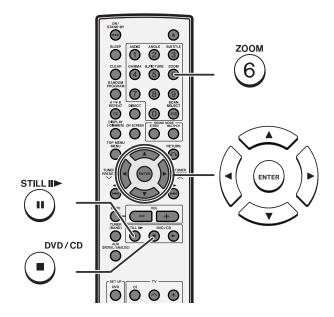
Time search feature is disabled on some discs.



# Playing an MP3, WMA or JPEG disc

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

Page	•
Playing a disc	)
To locate the beginning of a chapter/track (skip) 31	
Fast forward/Fast reverse (search)	
To change the audio language (audio output)34	1
To play in the desired order (programmed playback) 38	
To play repeatedly (repeat play)	)
To play in random order (random play)	2
To start playback from the desired point (direct play) 43	3



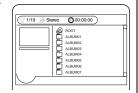
MP3 WMA JPEG

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

# Insert a disc containing MP3, WMA and JPEG files.

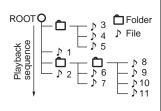
A menu screen appears and playback starts automatically.





#### 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:

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.

- 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.

#### ■ Zoom function UPEG

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

Zoom on

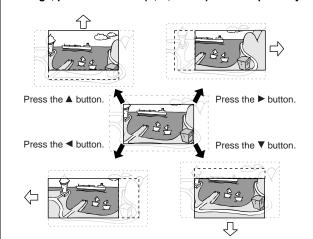
Hold down the ◄ or ▶ button for 2 seconds or more.

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.



#### To return to normal view:

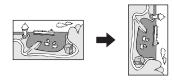
Press the SHIFT button and then the ZOOM button again, "Zoom off" will show on the screen.

## ■ Rotating a picture **PEG**

After pressing the STILL II▶ II button, press the cursor (♠, ▼, ◀ or ▶) button.

The image rotates as shown below.

▶ button : 90° rotation in a clockwise direction.



■ button: 90° rotation in a counterclockwise direction.



▲ button : Vertical mirror image.



▼ button : Horizontal mirror image.

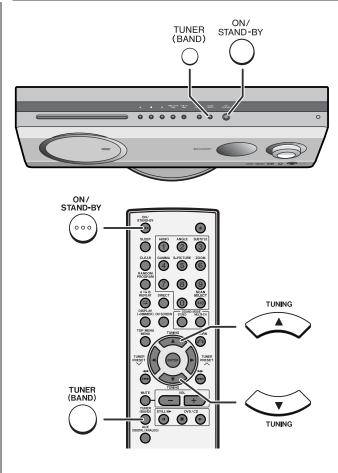


#### Note:

Some images may not be zoomed or rotated ("O" appears).

#### HT-X1

# Listening to the radio



## **■** Tuning

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

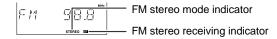
#### Notes:

- 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.

- "SII" 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.



#### ■ Memorizing 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 46.
- 2 Press the ENTER button to enter the preset tuning saving mode.



3 Within 5 seconds, press the TUNER PRESET ( $\vee$  or  $\wedge$ ) button to select the preset channel number.

Store the stations in memory, in order, starting with preset channel 1.

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 memorized, 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 memorized will be erased.

#### Note:

The backup function protects the memorized stations for a few hours should there be a power failure or the AC power cord get disconnected.

#### ■ To recall a memorized station

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

#### To select a preset station with the direct number buttons:

- Press the corresponding number ("0" "9").
- 2 Press the ENTER button.

#### Example:

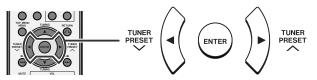
To select 28, press "2", "8" and "ENTER".

#### ■ To scan the preset stations

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

- 1 Press the TUNER PRESET ( $\vee$  or  $\wedge$ ) button for more than 0.5
  - The preset number will flash and the programmed stations will be tuned in sequentially, for 5 seconds each.

    Press the TUNER PRESET (> or ^) button again when the de-
- sired station is located.



#### To erase entire preset memory

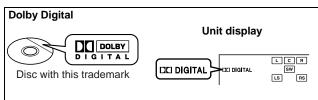
- Hold the CLEAR button down for 4 seconds or more.
- Within 10 seconds, press the ENTER button.





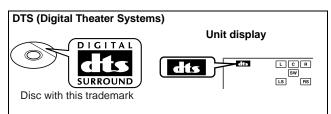


# **Enjoying surround sound (sound mode)**



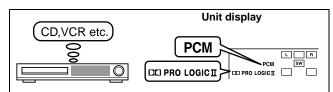
A 5.1 surround sound decoding used for home theater surround sound. You can enjoy the stereophonic effect in the home theater system.

When you set the audio output to Dolby Digital for a disc recorded in Dolby Digital, the DD DIGITAL indicator lights up (see page 34).



A 5.1 surround sound decoding used for home theater surround sound. As the sound quality is emphasized, 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 TS indicator lights up (see page 34).



#### **Linear PCM**

#### A signal recording format without compression

Used in DVD and CD featuring a musical or concert.

#### Dolby Pro Logic II

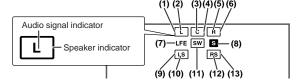
#### Stereo-recorded discs and video tapes

Dolby Pro Logic  $\pi$  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  $\pi$  is activated, the  $\square$  PRO LOGIC  $\pi$  indicator lights up.

#### ■ Audio Signal/Speaker Indicators

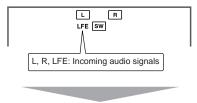
Audio signal indicators light up for the corresponding audio source, and speaker indicators are illuminated according to signals sent to the speakers.



#### Example:

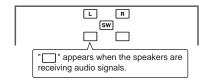
When 2.1 channel audio signals (L, R, LFE) are received, the audio signal indicators "L", "R" and "LFE" light up.

The illustration below indicates that 2 channel stereo sound (L and R) is reproduced.



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.



#### Audio Signal/Speaker Indicators:

(1)Left Front Speaker Indicator

(2)Left Indicator

(3)Center Indicator (4)Center 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

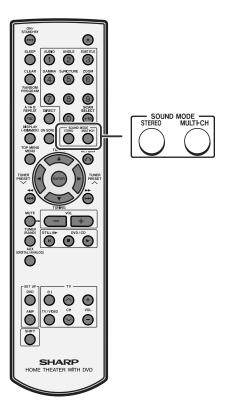
(13) Right Surround Speaker Indicator

- You can switch the audio output when the disc contains sounds of multiple audio formats (Dolby Digital, DTS, etc.). See page 34.
- Sound may not be produced from the subwoofer/amplifier unit depending on the disc.
- You cannot change the multi channel mode or stereo mode while 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

# Enjoying surround sound (sound mode) (continued)

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



## ■ Listening to 2 channel stereo sounds

While the disc is playing, press the STEREO button.

U C II

UT EM

LA STEREO

Example: DTS format



|5TERED |
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 (\*)

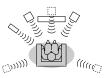
STEREO:

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 "VIRTU-AL" (effects are the same).

- 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.

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

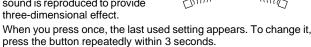
#### DVD (Dolby Digital or DTS)

#### While 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.



**STANDARD:** You can enjoy the original sound as it is.

MOVIE: The bass level is increased for powerful sound ef-

fect.

MUSIC: You can enjoy lively sound by producing the artic-

ulate sound.

**NIGHT:** The dynamic range control (compression) is acti-

vated 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.)

#### While 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:** You can enjoy the original sound as it is.

**MOVIE:** The bass level is increased for powerful sound ef-

fect.

**MUSIC:** You can enjoy lively sound by producing the artic-

ulate 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.

- When monaural signals are received in the multi channel mode, only the center 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".

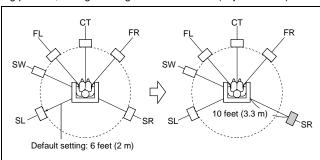
# Changing the default setting of the amplifier

Change settings according to the connected speakers.

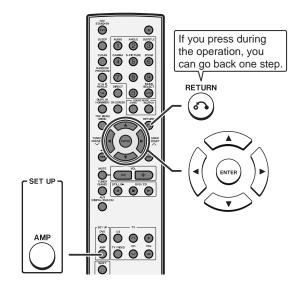
Speaker delay setting (See page 53.) Speaker level setting (See page 54.) Test tone (See page 54.)

#### Example:

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



- 1 In "Speaker delay setting", set the right surround speaker (SR) to 10 feet (3.3 m).
- 2 In "Speaker level setting", slightly increase the level of the right surround speaker as it is a little farther than others (see page 54).
- 3 In "Test tone", check the sound from each speaker (see page 54).



	Speaker type	Delay range	Level range
FL	Front speaker (Left)	1 to 29 ft	- 6 dB to + 6 dB
СТ	Center speaker	1 to 29 ft	- 6 dB to + 6 dB
FR	Front speaker (Right)	1 to 29 ft	- 6 db to + 6 dB
SR	Surround speaker (Right)	1 to 29 ft	- 6 dB to + 6 dB
SL	Surround speaker (Left)	1 to 29 ft	- 6 dB to + 6 dB
SW	Subwoofer/amplifier unit	1	- 10 dB to + 10 dB

#### Default settings:

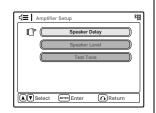
Delay - - - 6 ft (2 m)

Level - - - 0 dB (FL, CT, FR, SR, SL), + 5 dB (SW)

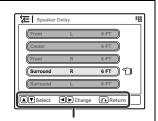
# In the stop mode, you can change the amplifier settings on the TV screen.

1 Press the SET UP AMP but-

The amplifier setting screen appears.



- 2 Press the ▲ or ▼ button to select the menu and press the ENTER button.
- 3 Press the ▲, ▼, ◄ or ▶ button to change the setting.



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 6 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.



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

The indicator of the selected speaker flashes.



- Within 10 seconds, press the ◀ or ▶ button to select the distance.
  - You can change the distance in 1 foot (0.3 m) steps.
  - To set the distance of other speakers, repeat the operation from step



5 Press the RETURN 6 button twice.

The setting is complete.

#### Note:

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

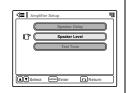
## Changing the default setting of the amplifier (continued)

#### ■ Speaker level setting

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

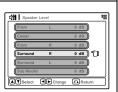
#### 1 Press the SET UP AMP button.

2 Within 10 seconds, press the ▲ or ▼ button to select "SP LEVEL", and then press the ENTER button.



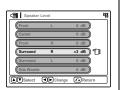
Within 10 seconds, press the ▲ or ▼ button to select the desired speaker.

The indicator of the selected speaker flashes.



Within 10 seconds, press the ◀ orbutton to adjust the level.

- You can adjust the level at 1 dB intervals.
- To set the level of other speakers, repeat the operation from step 3.



5 Press the RETURN 6 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

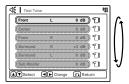
You can check each speaker sound by a test tone. Readjust the volume set in "Speaker level setting".

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

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



The test tone will be heard from each speaker in order, at about 2-second intervals.



#### To adjust speaker levels

While the test tone is heard:

Adjust the level with the ◀ or ▶ button.

Press the ▲ or ▼ to select a speaker.

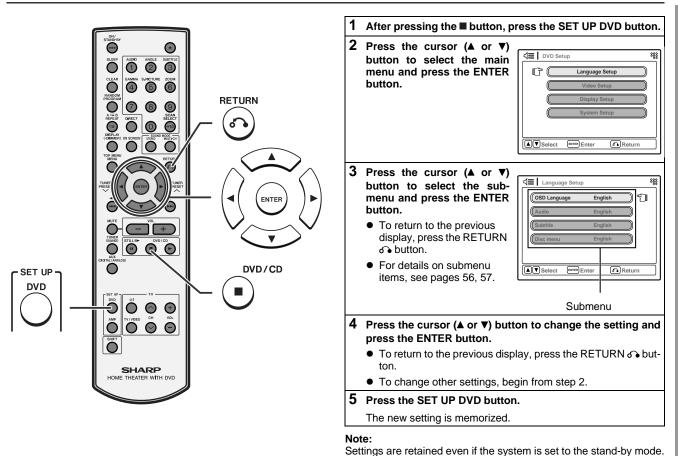
3 Press the RETURN 6 button twice.

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)".

# **Changing the initial setting of DVD**



# Advanced Features

# Changing the initial setting of DVD (continued)

Setting	Selectable (* indicates in	parameters nitial settings.)	Description					
Lan- guage Setup	OSD Lan- guage	English* Français Español	A language for screen display can be set, such as for initial settings or messages.					
	Audio	English*	A language for audio can be set.					
		Other	You can specify a language for conversation and narration.					
	Subtitle	English*	A language for subtitle can be set.					
		Other Off	The subtitles are displayed in a specified language.					
	Disc menu	English*	A language for disc menus can be set.					
		Other	Menu screens are displayed in a specified language.					
Video Setup	TV screen	4:3 PS 4:3 LB* 16:9	<ul> <li>The screen mode should be set according to the connected TV type.</li> <li>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.</li> <li>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.</li> <li>16:9 A wide image (16:9) is displayed when playing a wide image (16:9) disc.</li> <li>When playing a 4:3 image disc, the image size depends on the setting of the connected TV.</li> <li>If you play back a wide image (16:9) disc with the main unit connected to a 4:3 TV, images appear stretched vertically.</li> </ul>					
	TV type	NTSC* Auto	Selects the correct color system (TV standard).  NTSC: Select this mode for the NTSC TV.  Auto: Select this mode for the multi-system TV.					
	Video output	Interlace* Progressive	The video output mode should be set according to the connected TV type.  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).					

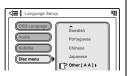
Setting Selectable parameters (* indicates initial settings.)		·	Refer- ence page		
Video Setup Display	Picture mode  Angle mark	Auto Film Video Smart*	Auto: Film: Video: Smart:	de to optimize DVD images on a TV.  Images are automatically optimized according to the video source.  Suitable for progressive video output. Select for DVD movies, etc.  Suitable for interlaced video output. Select for DVD karaoke, etc.  Optimize special effects for progressive video output.  ner to display "強" (On) or not (Off).	P. 37
Setup	Screen saver	Off On Off*	Select wheth On:	ner to use a screen saver (On) or not (Off).  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.  Cancel the screen saver setting.	_
	Closed caption	On Off*	Select wheth On: Off:	ner to display the closed caption (On) or not (Off).  The closed caption data (subtitles) appear on the TV screen automatically.  You can see the closed caption data when playing DVD discs (with "CC" on the jacket) on this unit.  Cancel the closed caption setting.	_
System Setup	Parental setting  Please enter a 4-digit password. (Default setting:	Level: 1 : 6* : No Limit Code: USA*	Level 1 - 8: No Limit:	ction level for DVD viewing.  The level 1 is the least strict, and the level 8 is the strictest (restriction differs depending on the country).  Parental level control is canceled.  y code according to a parental control level of discs.	P. 58 _
	Password Edit Restore		Password se	etting. all settings to the factory defaults.	P. 58

## Changing the initial setting of DVD (continued)

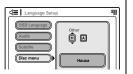
#### Other language settings

You can set the "Other" language for audio, subtitle, and disc menu. (Refer to "Language code list for disc language" on page 59.) Example: To select HU (Hungarian) as a disc menu

- 1 On the initial setting screen, select "Language Setup" (see steps 1 - 2 on page 55), and select "Disc menu" and press the ENTER button.
- 2 Press the cursor (▲ or ▼) button to select "Other" and press the ENTER button.



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





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



- 6 Press the ENTER button.
- 7 Press the RETURN 6 button twice.

The new setting is memorized.

#### ■ Parental level setting

- 1 Select "System Setup" on the setup menu screen (see steps 1 - 2 on page 55).
- 2 Select "Parental setting" in step 3 on page 55.
- 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 57) and press the ENTER button.
- 6 Press the SET UP DVD button.

#### Note:

While 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 55).
- Select "Password Edit" in step 3 on page 55.
- 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:

- Select "System Setup" on the setup menu screen (see steps 1 2 on page 55).
- 2 Select "Restore Info" in step 3 on page 55.
- Enter 2486 with the direct buttons.
- When reset is done according to this method, all settings will be reset to the factory defaults.

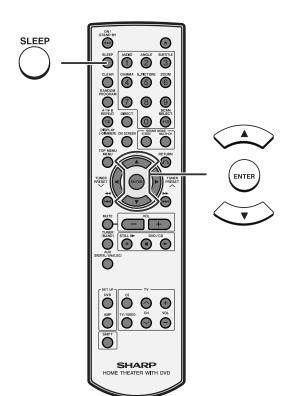
# Language code list for disc language

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
ВН	Bihari	IA	Interlingua
ВІ	Bislama	ΙE	Interlingue
BN	Bengali;	IK	Inupiak
	Bangla	IN	Indonesian
во	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		

# Sleep operation

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



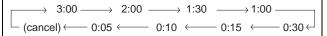
- 1 Play back the desired sound source.
- 2 Press the SLEEP button and within 8 seconds, press the ENTER button.



#### To change the sleep time:

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

(Maximum: 3 hours - Minimum: 5 minutes)



- 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 be turned down 30 seconds before the sleep operation finishes.

#### To confirm the remaining sleep time:

Press the SLEEP button while 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 while 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 a TV directly to receive the images (refer to the operation manual of each equipment).

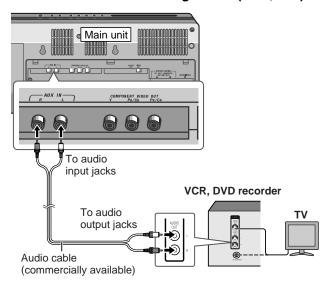
#### Caution:

Turn off the other equipment before making this connection.

#### Notes:

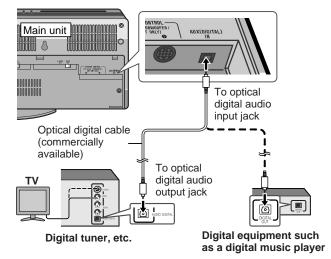
- Change the audio between analog and digital with the AUX (DIG-ITAL/ANALOG) button.
- Insert the plugs fully to avoid fuzzy pictures or noise.

#### ■ Connection for the analog sound (VCR, etc.)



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

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



#### Optical digital jack cap

When using the optical digital jack, remove the cap first. After using the jack, 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.

## To install the main unit on the wall

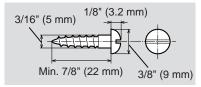
#### Preparation:

size and type.

Remove the stand from the main unit (perform steps 1 - 2 on page 18).

Sharp has designed the main unit so you can hang it on the wall.
Use appropriate screws (not supplied). See the il-

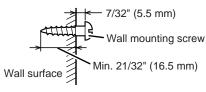
lustration on the right for



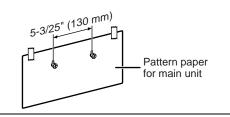
Drive two screws into the wall for main unit, as shown in the illustration.

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

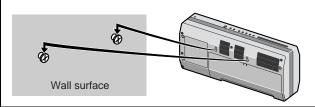
Drive the screws, so the screw head extends about 7/32" (5.5 mm) out from the wall.



2 Fix the pattern paper and drive two screws into the wall with a distance of 5-3/25" (130 mm) in between.



3 Tighten the screws and remove the paper. Hook the main unit on the screw heads and make sure it is secure.



#### **CAUTION:**

- Make sure to prevent the main unit [4.9 lbs. (2.2 kg)] from falling when mounting it on the wall.
- Before mounting, check the wall strength. (Do not put on a 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.

# **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 authorized SHARP dealer or service center.

#### ■ General

Symptom	Possible cause
The power is not turned on.	<ul><li>Is the system unplugged?</li><li>Are the system connection cords disconnected?</li></ul>
No sound is heard.	<ul> <li>Is the volume level set to "0"?</li> <li>Are the headphones connected?</li> <li>Are the speaker wires disconnected?</li> </ul>
The sound from speakers is not well balanced.	Are the speaker wires connected to the wrong channels?
Noise is heard during playback.	<ul> <li>Move the system away from any computers or mobile phones.</li> </ul>
When a button is pressed, the system does not respond.	<ul> <li>Set the system to the power stand-by mode and then turn it back on.</li> <li>If the system still malfunctions, reset it. (Refer to page 64.)</li> </ul>
Interference or noise occurs on the TV image.	Is the system placed near TV with internal antenna? Use an outdoor antenna.
The display on the main unit is dark.	Is the display in the dimmer mode?
No images are displayed.	<ul><li>Is the TV turned on?</li><li>Is the TV input switched on?</li></ul>
	<ul> <li>The video output mode may not match the jacks you are using. Change the mode as follows. In the stop mode, press the SHIFT button and SCAN SELECT button on the re- mote control a few times (see page 22).</li> </ul>

## ■ DVD player

Symptom	Possible cause
Even though a	Is the disc loaded upside down?
disc is loaded, "No Disc" is dis-	Is the disc very dirty?
played.	Does the disc satisfy the standards?
	<ul><li>Is the system located near excessive vibrations?</li></ul>
Playback sounds are skipped.	• Is condensation formed inside the system?
The control but-	• Is the disc very dirty?
tons do not func- tion. Music or	Does the disc satisfy the standards?
video playback is interrupted.	Is the system located near excessive vibrations?
	• Is condensation formed inside the system?
Pictures and	Is the disc very dirty?
sound are skipped.	<ul> <li>Is the system located near excessive vibrations?</li> </ul>
	• Is condensation formed inside the system?
The system does not operate even if the power is on.	<ul> <li>Is a disc other than a DVD (region number 1 or ALL), audio CD, CD-R or CD-RW loaded?</li> </ul>
Images cannot be played back.	<ul> <li>Are the video and audio cables connected improperly?</li> </ul>
(Sound is not heard.)	<ul> <li>Is a disc other than a DVD (region number 1 or ALL), audio CD, CD-R or CD-RW loaded?</li> </ul>
	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?

# **Troubleshooting chart (continued)**

#### **■** Tuner

Symptom	Possible cause
The radio makes unusual noises	• Is the system placed near the TV or computer?
continuously.	<ul> <li>Is the FM antenna or AM loop antenna placed properly? Move the antenna away from the AC power cord if it's located nearby.</li> </ul>
The preset chan- nel cannot be re-	<ul> <li>Did you remove the plug from the wall jack, or did a power failure occur?</li> </ul>
called.	Set the channel again.

#### ■ Remote control

Symptom	Possible cause
The remote con-	Is the battery polarity correct?
trol does not op- erate.	• Are the batteries dead?
erate.	Is the distance or angle incorrect?
	Are there any obstructions in front of the main unit?
	<ul> <li>Is the remote control sensor exposed to strong light (inverter fluorescent light, direct sunlight, etc.)?</li> </ul>
	Is the remote control for another equipment used simultaneously?
The system can- not be turned on	Is the AC power cord of the subwoofer/am- plifier unit plugged in?
with the remote control.	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 While 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 laser pickup lens

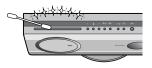
In order to ensure proper operation of the DVD player, preventative maintenance (cleaning of the laser pickup lens) should be performed periodically. Lens cleaners are commercially available. Contact your local DVD software dealer for options.

#### 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 (gasoline, paint thinner, etc.).
   It may damage the cabinet finish.
- Do not apply oil to the inside of each component as this may cause malfunctions.
- Since the disc insertion slot faces upward, dust may accumulate on it. Clean it with a cotton swab, etc.

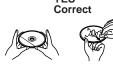


#### ■ Care of discs

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 center, along the radius.





# **Error indicators and warnings**

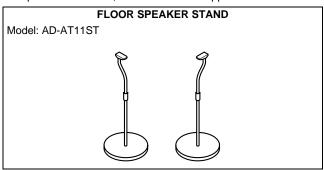
When you load an unplayable disc or fail to perform operations properly, the following messages are displayed on the TV screen.

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 "1" nor "ALL".
$\bigcirc$	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.



# **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.

## ■ Main unit

Dimensions	Including the stand
	Width: 17" (430 mm)
	Height: 7-5/8" (192 mm)
	Depth: 4" (100 mm)
	Excluding the stand
	Width: 17" (430 mm)
	Height: 6-3/4" (171 mm)
	Depth: 3-1/2" (88 mm)
Weight	4.9 lbs. (2.2 kg)
Frequency range	FM: 87.5 - 108 MHz
	AM: 530 - 1,720 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	NTSC color
Supported disc types	DVD (region number 1 or ALL),
	DVD-R/RW (video mode),
	DVD+R/RW (video mode), audio CD, CD-R, CD-RW
Video signal	Horizontal resolution: 500 lines
	S/N ratio: 70 dB

Audio 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  Total harmonic distortion ratio	Linear PCM DVD: 95 dB	
	CD: 94 dB	
	monic distor-	0.006 % maximum

## **■** Front speakers

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

# **■** Surround speakers

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

# ■ Center speaker

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

# ■ Subwoofer/amplifier unit Amplifier:

Power source	AC 120 V, 60 Hz
Power consumption	208 W
Dimensions	Width: 7-7/8" (200 mm) Height: 15" (380 mm) Depth: 17-1/2" (443 mm)
Weight	23.2 lbs. (10.5 kg)
Speaker terminals	Front speakers, center speaker and surround speakers: more than 4 ohms
Other terminals	System control × 2
Power output (FTC)	50 watts minimum RMS per channel into 4 ohms from 150 Hz to 20 kHz, 10% total harmonic distortion
	Subwoofer:
	50 watts minimum RMS into 4 ohms from 20 Hz to 150 Hz, 10% total harmonic distortion
Rated power output	Front: 50 W + 50 W, Center: 50 W,
	Surround: 50 W + 50 W (4 ohms at 1 kHz, 10 % T.H.D.)
	Subwoofer: 50 W (4 ohms at 100 Hz, 10 % T.H.D.)

## Subwoofer:

Туре	Bass reflex, 1 way system
	6-1/2" (16 cm) woofer × 1
Maximum input power	100 W
Rated input power	50 W
Impedance	4 ohms

#### **CONSUMER LIMITED WARRANTY**

SHARP ELECTRONICS CORPORATION warrants to the first consumer purchaser that this Sharp brand product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

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THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Model Specific Section

Your Product Model Number & Description:

HT-X1 Home Theater with DVD

(Be sure to have this information available when you need service for your Product.)

Warranty Period for this Product:

One (1) year parts and labor from the date of purchase.

Additional Item(s) Excluded from Warranty Coverage (if any): Non-functional accessories, supplies, and consumable items.

At a Sharp Authorized Servicer located in the United States.

Where to Obtain Service:

To find a location of the nearest Sharp Authorized Servicer, call Sharp toll free at 1-800-BE-SHARP.

Ship prepaid or carry in your Product to a Sharp Authorized Servicer. What to do to Obtain Service:

Be sure to have Proof of Purchase available. If you ship the Product, be sure it is insured and

packaged securely.

TO OBTAIN SUPPLY, ACCESSORY OR PRODUCT INFORMATION, CALL 1-800-BE-SHARP.



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