R-771 Audio/Video Receiver



5707-21128-042-0



OPERATING INSTRUCTIONS

R-771 Audio/Video Receiver

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SAFETY INSTRUCTIONS

- 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

PORTABLE CART WARNING

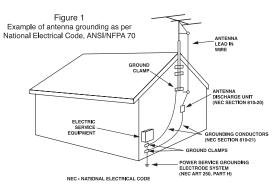
covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

- 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 replae 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 gronding-type plug.

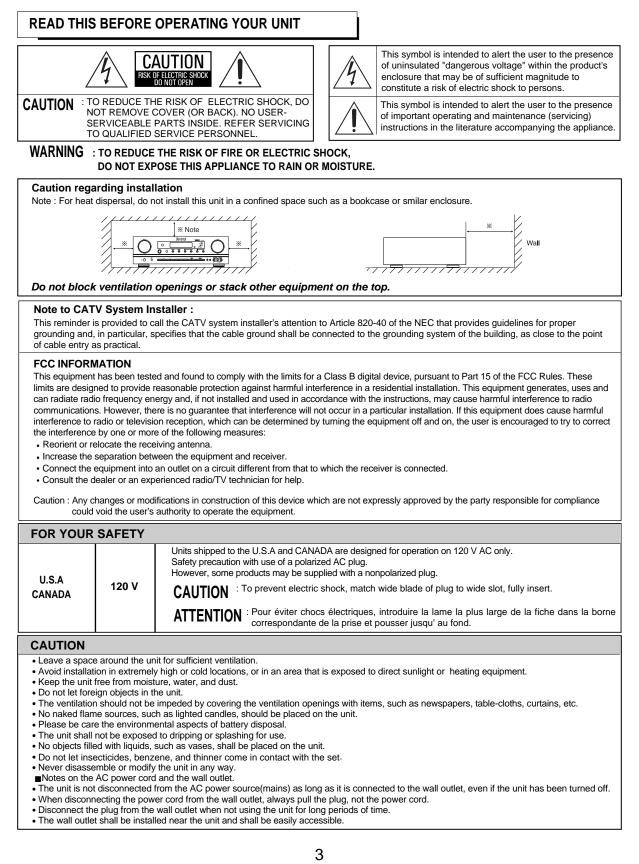
- 13. Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- 14. Outdoor Antenna Grounding 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. See Figure 1.



- 15. 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.
- 16. 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.
- 17. Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 18. 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.
- 19. 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 gualified service personnel.
- 20. Damage Requiring Service Unplug this product form 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.
 - 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 When the product exhibits a distinct change in performance -
- this indicates a need for service. 21. 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.
- 22. 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.
- 23. Wall or Ceiling Mounting The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 24. Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Introduction



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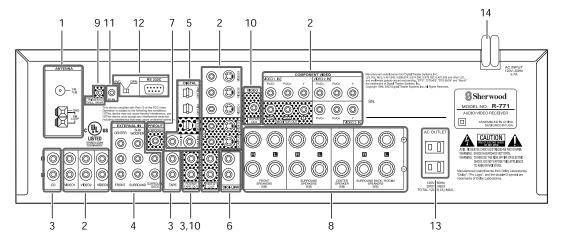
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System Connections

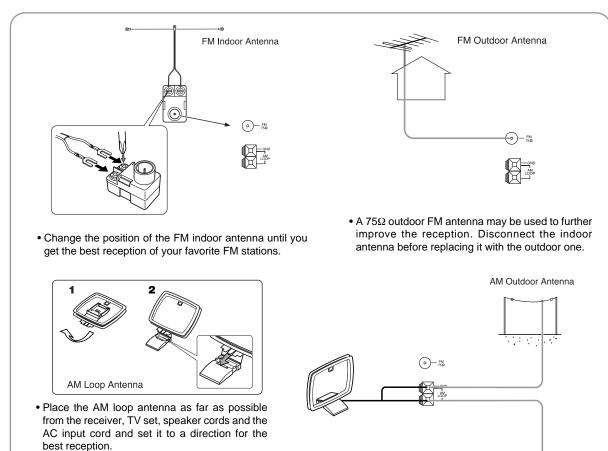
- Do not plug the AC input cord into the wall AC outlet until all connections are completed.
- Be sure to observe the color coding when connecting audio, video and speaker cords.
- Make connections firmly and correctly. If not, it can cause loss of sound, noise or damage to the receiver.



1. CONNECTING ANTENNAs

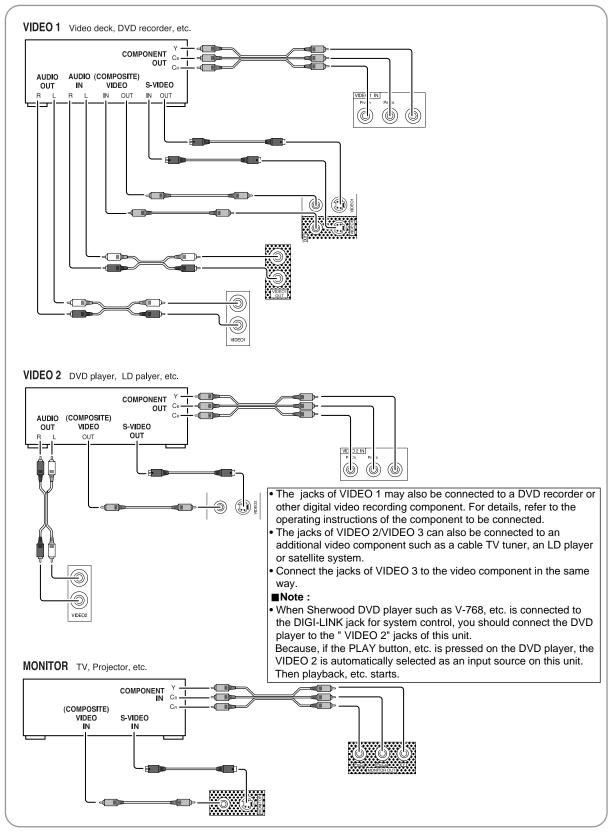
• If the reception is poor with the AM loop antenna, an AM outdoor antenna can be used in

place of the AM loop antenna.



2. CONNECTING VIDEO COMPONENTS

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- There are three types of video jacks(COMPONENT, S-VIDEO, (composite) VIDEO) for connecting video components.
- Connect them to the corresponding video jacks according to their capability.
- For your reference, the excellence in picture quality is as follows : "COMPONENT" > "S-VIDEO" > "(composite) VIDEO".
- When making COMPONENT VIDEO connections, connect "Y" to "Y", "PB/CB" to "CB"(or "B-Y", "PB") and "PR/CR" to "CR"(or "R-Y", "PR").
- When recording video program sources through VIDEO 1 OUT jacks or viewing ROOM 2 source through ROOM 2 OUT jack, you must use the same type of video jacks that you did connect to video playback components such as DVD player, LD player, etc.
- This unit is equipped with a function that up-converts composite video or S-Video signals to component video signals or down-converts S-Video signals to composite video signals and outputs them from the MONITOR OUTs. Because of this, you need not connect all the types of MONITOR OUT jacks to the MONITOR TV.
- After connecting the video components, you should set the video mode correctly, referring to the following table.

(For details, refer to "When selecting the VIDEO MODE" on page 41.)

Video input signals			Video Mode	MONITOR OUTs			
COMPONENT	S-VIDEO	(COMPOSITE) VIDEO	Setting	COMPONENT	S-VIDEO	(COMPOSITE) VIDEO	
			Auto	Component	S-Video	Composite video*3	
			Component*1	Component*4	X	Х	
	0	S-Video*2	S-Video	S-Video	S-Video		
			Composite*2	Composite video	Composite video	Composite video	
0	0	Х	Auto Component		S-Video	S-Video	
0	X	0	Auto Component Composite video		Composite video		
0	×	×	Auto Component*4 ×		X		
×	0	0	Auto	S-Video	S-Video	Composite video*3	
×	0	×	Auto	S-Video	S-Video	S-Video	
×	×	0	Auto	Composite video	Composite video	Composite video	

■Relationship between the video input signal and the video output signal

*1 : Component video signal can be output from the MONITOR COMPONENT OUT jacks only.

*2 : The video signal set in the VIDEO MODE menu can be output from all the types of MONITOR OUT jacks.

*3 : The OSD menu and the momentary OSD cannot be displayed via MONITOR COMPOSITE OUT jack.

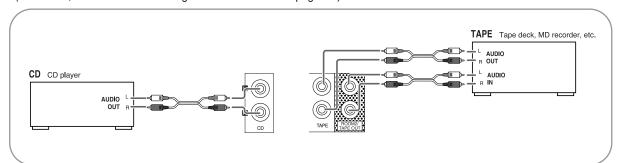
*4 : If the OSD menu operation is performed, the picture is automatically turned off and only the OSD menu is displayed via MONITOR COMPONENT OUT jacks.

■Note :

• When outputting the component video signal from the MONITOR COMPONENT OUT jacks as it was input, the momentary OSD cannot be displayed.

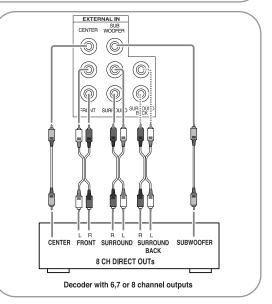
3. CONNECTING AUDIO COMPONENTS

- For ROOM 2 playback, the ROOM 2/TAPE OUT jacks can be connected to the amplifier, TV, etc. installed in another room instead of audio recording equipment such as a tape deck, an MD recorder, etc.
- (For details, refer to "CONNECTING ROOM 2 OUTs" on page 11.)
 Depending on how to use the ROOM 2 /TAPE OUTs, you should assign these correctly. (For details, refer to "When selecting the OUT ASSIGN" on page 37.)



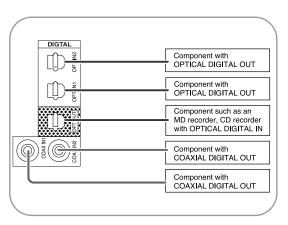
4. CONNECTING EXTERNAL INs

- Use these jacks to connect the corresponding outputs of a DVD player or external decoder, etc. that has 6, 7 or 8 channel analog audio outputs
- In case of 6 or 7 channel outputs, do not connect both of the SURROUND BACK L and R inputs or the SURROUND BACK R input of this unit. (For details, refer to the operating instructions of the component to be connected.)



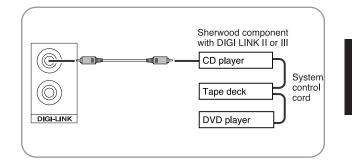
5. CONNECTING DIGITAL INs and OUT

- The OPTICAL and the COAXIAL DIGITAL OUTs of the components that are connected to CD and VIDEO 1~ VIDEO 3 of this unit can be connected to these DIGITAL INs.
- A digital input should be connected to the components such as a CD player, LD player, DVD player, etc. capable of outputting DTS Digital Surround, Dolby Digital or PCM format digital signals, etc.
- If the component with OPTICAL IN jack is connected to the OPTICAL OUT jack of this unit, you can record the high quality sound of CDs, etc. without degradation.
- For details, refer to the operating instructions of the component connected.
- When making the COAXIAL DIGITAL connection, be sure to use a 75 Ω COAXIAL cord, not a conventional AUDIO cord.
- All of the commercially available optical fiber cords cannot be used for the equipment. If there is an optical fiber cord which cannot be connected to your equipment, consult your dealer or nearest service organization.
- ■Notes :
- Be sure to make either a OPTICAL or a COAXIAL DIGITAL connection on each component. (You don't need to do both.)
- If you connect the DIGITAL INs to your components, you should assign the DIGITAL INs you used to the corresponding input sources. (For details, refer to "When CD, VIDEO 1~3 is selected as an input source" on page 22 or "When selecting the DIGITAL AUDIO" on page 40.)



6. CONNECTING SYSTEM CONTROL

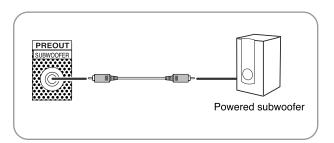
 Connect this jack to the DIGI LINK jack of the external Sherwood component that uses the DIGI LINK II or III remote control system.



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7. SUBWOOFER PREOUT connection

• To emphasize the deep bass sounds, connect a powered subwoofer.



8. CONNECTING SPEAKERS

- Be sure to connect speakers firmly and correctly according to the channel(left and right) and the polarity(+ and -). If the connections are faulty, no sound will be heard from the speakers, and if the polarity of the speaker connection is incorrect, the sound will be unnatural and lack bass.
- For installing the speakers, refer to "Speaker placement" on page 10.
- After installing the speakers, first adjust the speaker settings according to your environment and speaker layout.(For details, refer to "SETTING THE SPEAKER / ROOM EQ SETUP" on page 43.)

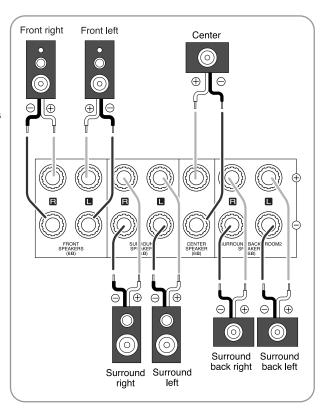
■Surround back speakers

- When using only one surround back speaker, you should connect it to SURROUND BACK/ROOM 2 LEFT channel.
- If you assign the power amplifier for the surround back/ room 2 channels to the ROOM 2, this unit can drive the speakers in another room (ROOM 2).
 (For details, refer to "CONNECTING ROOM 2 OUTs" on

page 11 and "When selecting the AMP ASSIGN" on page 37.)

Caution :

- Be sure to use the speakers with the impedance of 6 ohms or above.
- Do not let the bare speaker wires touch each other or any metal part of this unit. This could damage this unit and/or the speakers.



Speaker placement

Ideal speaker placement varies depending on the size of your room and the wall coverings, etc. The typical example of speaker placement and recommendations are as follows :

■Front left and right speakers and center speaker

- Place the front speakers with their front surfaces as flush with TV or monitor screen as possible.
- Place the center speaker between the front left and right speakers and no further from the listening position than the front speakers.
- Place each speaker so that sound is aimed at the location of the listener's ears when at the main listening position.

■Surround left and right speakers

• Place the surround speakers approximately 1 meter (40 inches) above the ear level of a seated listener on the direct left and right of them or slightly behind.

■Surround back left and right speakers

- Place the surround back speakers at the back facing the front at a narrower distance than front speakers.
- When using a single surround back speaker, place it at the rear center facing the front at a slightly higher position (0 to 20 cm) than the surround speakers.
- We recommend installing the surround back speaker(s) at a slightly downward facing angle. This effectively prevents the surround back channel signals from reflecting off the TV or screen at the front center, resulting in interference and making the sense of movement from the front to the back less sharp.

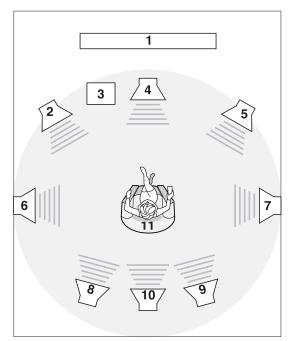
■Subwoofer

The subwoofer reproduces powerful deep bass sounds.

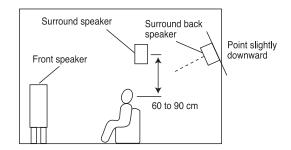
Place a subwoofer anywhere in the front as desired.

■Notes :

- When using a conventional TV, to avoid interference with the TV picture, use only magnetically shielded front left and right and center speakers.
- To obtain the best surround effects, the speakers except the subwoofer should be full range speakers.



- 1. TV or screen
- Surround right speaker
 Surround back left speaker
- 2. Front left speaker 3. Subwoofer
- 9. Surround back right speaker
- 4. Center speaker
- 10. Surround center speaker
- ker 11. Listening position
- 5. Front right speaker
 6. Surround left speaker



9. CONNECTING DC TRIGGER OUT

- Connect a component to DC TRIGGER OUT jack that allows DC 12 V to turn on when a specific input source is selected.
- For details, refer to the operating instructions of the components to be connected .
- To link DC TRIGGER OUT with a specific input source, refer to "When selecting the DC TRIGGER" on page 41.

■Notes :

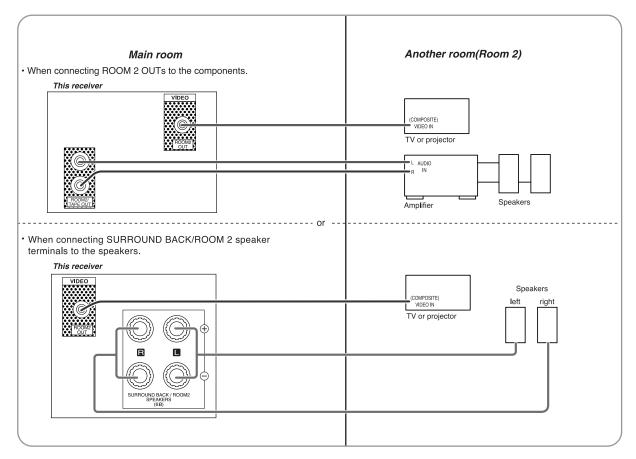
- This output voltage (12 V d.c., 100mA) is for (status) control only, it is not sufficient for drive capability.
- When making DC TRIGGER connection, you should use the stereo mini cord, not a mono mini cord.

10. CONNECTING ROOM 2 OUTs

- ROOM 2 playback feature allows you to play a different program source in another room as well as one source in the main room at the same time.
- For ROOM 2 playback, connect the ROOM 2 OUT jacks to the amplifier, TV, etc. installed in another room, or connect the SURROUND BACK/ROOM 2 speaker terminals to the speakers.
- When connecting the ROOM 2 /TAPE OUT jacks, you should assign the output to the ROOM 2.
- (For details, refer to "When selecting the OUT ASSIGN" on page 37.)
- When connecting the SURROUND BACK/ROOM 2 speaker terminals, you should assign the power amplifier for surround back/room 2 channels to the ROOM 2. (For details, refer to "When selecting the AMP ASSIGN" on page 37.)

■Notes :

- To minimize hum or noise, use high quality connection cords.
- You cannot use the digital audio signal for ROOM 2 playback.





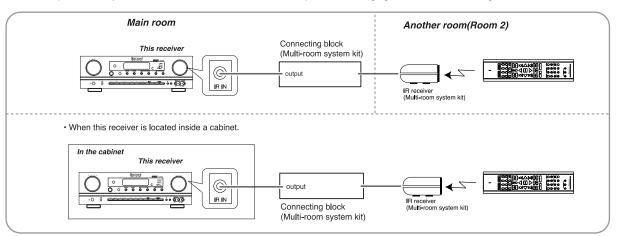
11. CONNECTING MULTI-ROOM SYSTEM KIT

• The multi-room system kit(sold separately) is essential for operation from a remote location . For information on the multi-room system kit, contact the Xantech corporation at 1-800-843-5465 or www.xantech.com.

- IR IN jack allows you to control this receiver from another room with the remote control unit.
- To control this receiver from another room with the remote control unit, connect the IR IN jack to the output of the connecting block.
- If this receiver is located inside a cabinet or other enclosure where the infrared beams from the remote control unit cannot enter, then operation with the remote control unit will not be possible.
- In such a case, connect the IR IN jack to the output of the connecting block.

■Note:

• Remote operation may become unreliable if the IR receiver is exposed to strong light such as direct sunlight or inverted fluorescent.



12. CONNECTING PC FOR UPGRADES

- This receiver incorporates RS-232C terminal that may be used in the future to update the operating software so that it will be able to support new digital audio formats, external control by using an external device and the like.
- Connect RS-232C terminal to your PC.

■Notes :

- Be sure to set the UPGRADE switch to "SVC"(service) before updating.
- This switch should be set to "OPR"(operation) during normal operation except for upgrades. If not, this unit will not operate normally.
- Programming for upgrades and external control requires specialized programming knowledge and for that reason we recommend that it only be done by qualified installers. For more information on future upgrades and external control, visit the Sherwood web site at www.sherwoodamerica.com or contact your dealer.
- Do not disconnect the connection cable while updating the operating software, etc. Should this happen, it may be result in malfunction or cause damage to the unit.

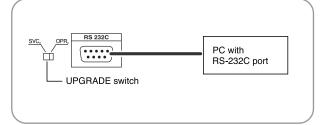
13. SWITCHED AC OUTLETs

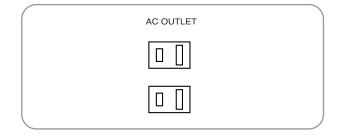
 These outlets are switched on(power-on mode) and 	
off(standby mode) according to power control as	
follows(Maximum total capacity is 120 W (1 A)).	

Standby mode - Switched AC outlet off	
Power-on mode - Switched AC outlet on	

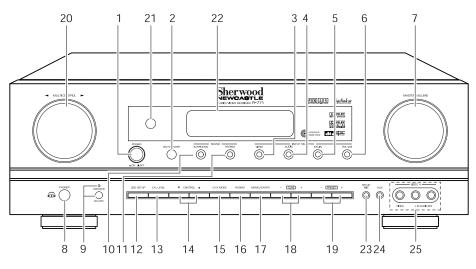


• Plug this cord into a wall AC outlet.





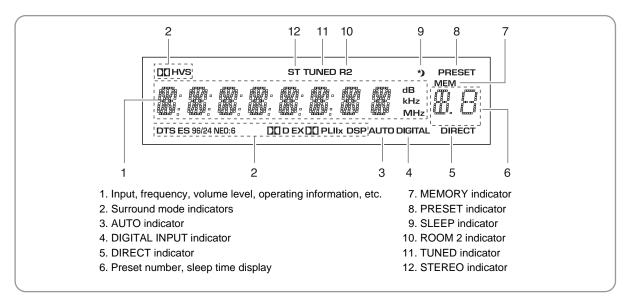
Front Panel Controls



- 1. POWER switch
- 2. POWER ON/STANDBY button/indicator
- 3. VIDEO INPUT SELECTOR button
- 4. AUDIO INPUT SELECTOR button
- 5. EXTERNAL IN button
- 6. FM/AM button
- 7. MASTER VOLUME CONTROL knob
- 8. HEADPHONE jack
- 9. SPEAKER button/indicator
- 10. SURROUND MODE button
- 11. STEREO button
- 12. OSD SETUP button
- 13. CHANNEL LEVEL button
- 14. CONTROL UP/DOWN(▲/▼) buttons
- 15. DIGITAL/ANALOG MODE button

- 16. ROOM 2 button
- 17. MEMORY/ENTER button
- 18. TUNING UP/DOWN(+/-) buttons
- 19. PRESET UP/DOWN(+/-) buttons
- 20. MULTI CONTROL knob
- 21. REMOTE SENSOR
- 22. FLUORESCENT DISPLAY For details, see below.
- 23. SETUP MIC jack
- For details, see next page. 24. AUX IN jack
- For details, see next page. 25. VIDEO 4 IN jacks
- For details, see next page.

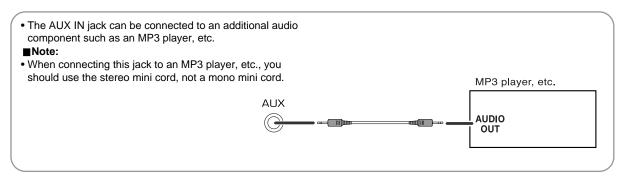
■FLUORESCENT DISPLAY



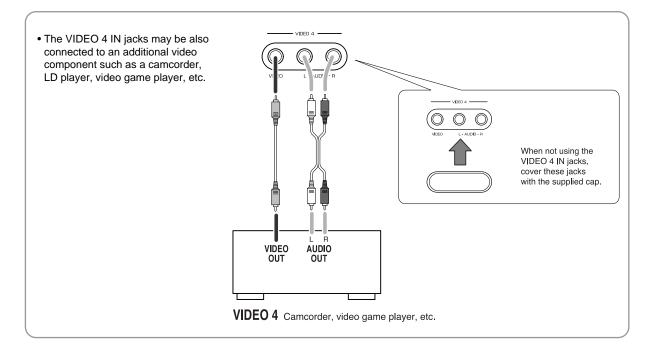
■SETUP MIC JACK

To use Auto Setup function, connect the supplied microphone to the SETUP MIC jack.(For details, refer to "When selecting the AUTO SETUP" on page 43.) **INotes:**Because the microphone for Auto Setup is designed for use with this receiver, do not use a microphone other than the one supplied with this receiver.
After you have completed the auto setup procedure, disconnect the microphone.

AUX IN JACK



■VIDEO 4 IN JACKS



Universal Remote Controls

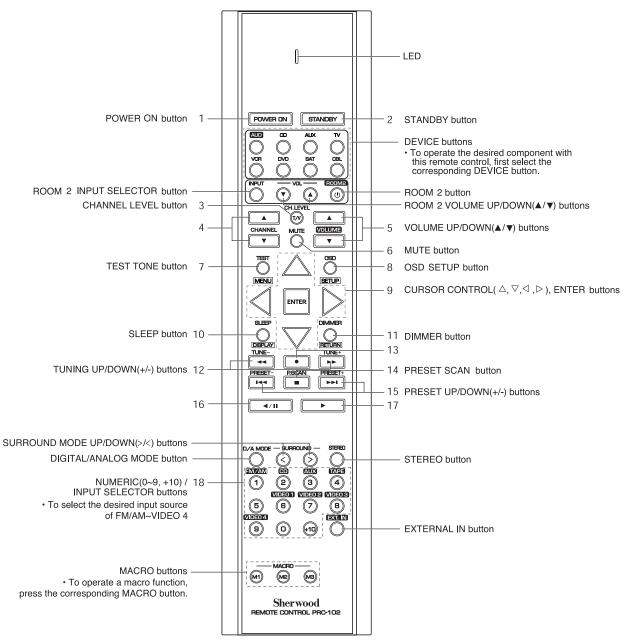
This universal remote control can operate not only this receiver but also most popular brands of audio and video components such as CD players, cassette decks, TVs, cable boxes, VCRs, DVD players, satellite receivers, etc.

• To operate 7 components other than this receiver, you should enter the setup code for each component. (For details, refer to "USING FUNCTIONS OF REMOTE CONTROL" on page 18.)

■Digi link system remote controls

This remote control can also operate Sherwood compatible components bearing the DIGI LINK (II or III) logo.

- For digi link system remote control operation, first make the DIGI LINK connections between Sherwood components.
- The numbered buttons on the remote control have different functions in different device modes. For details, refer to "FUNCTION TABLE of the NUMBERED BUTTONS" on the following page 16.



■FUNCTION TABLE of the NUMBERED BUTTONS

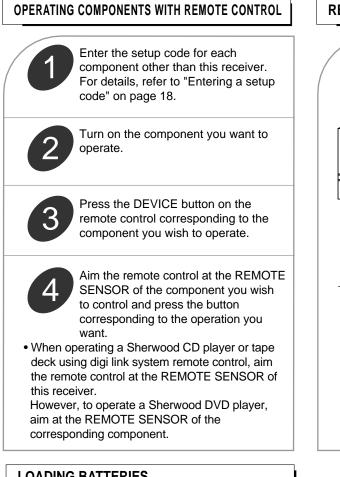
$\left \right $	Device to be	8	AUX	TV	VCR	DVD	SAT	CBL
Butto	n symbol	(for CD player)	(for tape deck)	(for TV)	(for VCR)	(for DVD player)	(for satellite receiver)	(for cable box)
1	POWER ON	POWER ON	POWER ON	POWER ON	POWER ON	POWER ON	POWER ON	POWER ON
2	STANDBY	STANDBY (POWER OFF)	STANDBY (POWER OFF)	STANDBY (POWER OFF)	STANDBY (POWER OFF)	STANDBY (POWER OFF)	STANDBY (POWER OFF)	STANDBY (POWER OFF)
3	CH.LEVEL	—	—	INPUT SELECTOR	INPUT SELECTOR	_	INPUT SELECTOR	INPUT SELECTOR
4	CHANNEL	_	_	CHANNEL UP/DOWN(▲ / ▼)	CHANNEL UP/DOWN(▲/▼)	_	CHANNEL UP/DOWN(▲ / ▼)	CHANNEL UP/DOWN(▲ / ▼)
5	Volume Volume	_	_	VOLUME UP/DOWN(▲ / ▼)	VOLUME UP/DOWN(▲/▼)	_	VOLUME UP/DOWN(▲ / ▼)	VOLUME UP/DOWN(▲ / ▼)
6		_	_	MUTE	MUTE	_	MUTE	MUTE
7	MENU	_	_	_	_	MENU	_	_
8	OSD SETUP	_	_	_	_	SETUP		_
9		_	_	_		CURSOR CONTROL ENTER		_
10						DISPLAY		_
11		_				RETURN		_
12			REWIND(◄◄) / FAST FORWARD(►►)		REWIND(◄◄) / FAST FORWARD(►►)	REVERSE SEARCH(◄◄) / FORWARD SEARCH(►►)		_
13		_	RECORD		RECORD			
14	P.SCAN	STOP	STOP		STOP	STOP	_	_
15	PRESET - PRESET +	REVERSE SKIP(+++) / FORWARD SKIP(+++)	_			REVERSE SKIP(I◄◄) / FORWARD SKIP(I►►)		
16		PAUSE	REVERSE PLAY	_	PAUSE	PAUSE	_	_
17		PLAY	FORWARD PLAY		PLAY	PLAY	_	_
18	0~9,+10	NUMERIC		NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC

Notes:

• Some functions for each component may not be available or may work differently.

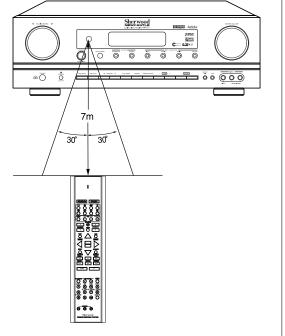
• Depending on other kinds of components that are available for each DEVICE button, some functions may not be available or may work differently, too.

• For details about functions, refer to the operating instructions of each component.



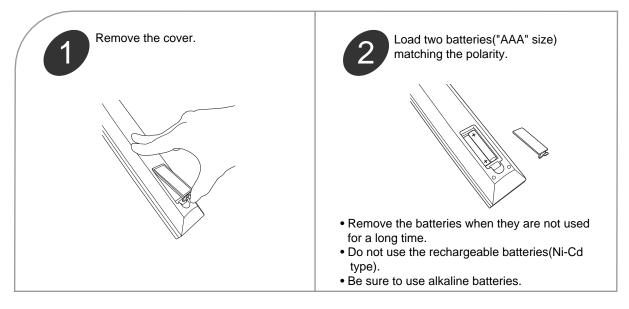
REMOTE CONTROL OPERATION RANGE

 Use the remote control unit within a range of about 7 meters (23 feet) and angles of up to 30 degrees aiming at the remote sensor.



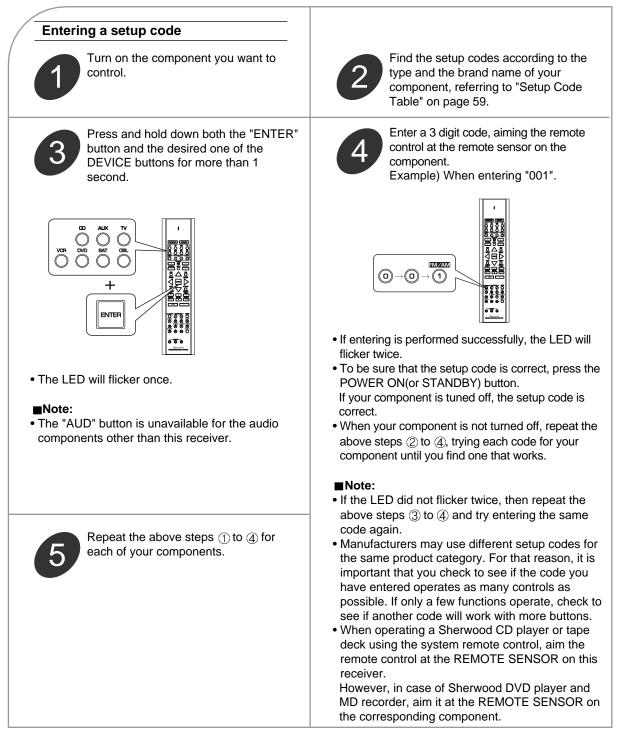
LOADING BATTERIES

- When the remote control does not operate, the old batteries should be replaced. In this case, load new batteries within several minutes after removing old batteries.
- If the batteries are removed or have been exhausted for a longer period of time, memorized contents will be cleared. Should this happen, you should memorize them again.



USING FUNCTIONS OF REMOTE CONTROL

- This remote control can control up to 8 different components.
- Before operating audio and video components other than this receiver with using this remote control, the setup code for each component should be entered.
- For system remote control operation, "000" was stored previously in the memory of the device button "CD" for Sherwood CD player, "DVD" for Sherwood DVD player and "AUX" for Sherwood tape deck respectively as its factory setup code. So, you don't need to enter its code for each Sherwood component except in such a case that its code does not work.

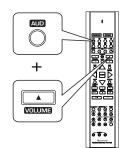


ENGLISH

Using a punch-through function

This remote control may be programmed to operate either the AUDIO volume punch-through or the TV volume and/or TV channel punchthrough in conjunction with any of the eight components controlled by this remote control. For example, since this receiver will likely be used as the sound system while watching TV, you may want to adjust this receiver's volume although this remote control is set to control the TV.

 When programming this remote control for the AUDIO volume punch-through, press and hold down both "AUD" button and "VOLUME ▲" button for more than 1 second.



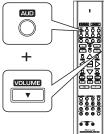
- If programming is performed successfully, the LED will flicker twice.
- When you want either TV volume or TV channel punch-through, press and hold down both "TV" button and either "VOLUME ▲" or "CHANNEL ▲" button for more than 1 second.

■Note:

 If you use one of AUDIO and TV volume punch-through functions, you cannot use the other.

■Removing a punch-through function

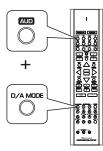
• When removing the AUDIO volume punchthrough, press and hold down both "AUD" button and "VOLUME ▼" button for more than 1 second.



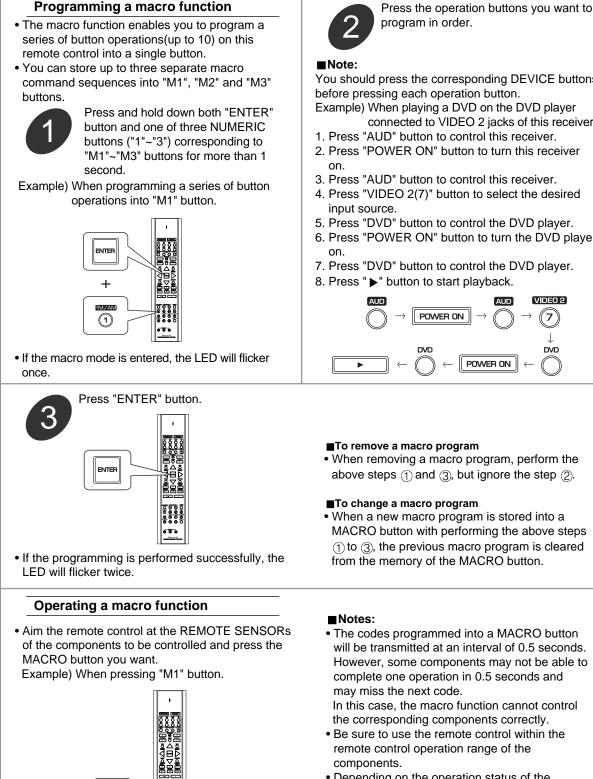
- If removing is performed successfully, the LED will flicker twice.
- When you want to remove either TV volume or TV channel punch-through, press and hold down both "TV" button and either "VOLUME ▼" or "CHANNEL ▼" button for more than 1 second.

Removing all punch-through functions

Press and hold down both "AUD" button and "D/A MODE" button for more than 1 second.



 If removing all punch-through functions is performed successfully, the LED will flicker twice.



You should press the corresponding DEVICE buttons before pressing each operation button.

- Example) When playing a DVD on the DVD player connected to VIDEO 2 jacks of this receiver.
- 1. Press "AUD" button to control this receiver.
- 2. Press "POWER ON" button to turn this receiver
- 3. Press "AUD" button to control this receiver.
- 4. Press "VIDEO 2(7)" button to select the desired
- 5. Press "DVD" button to control the DVD player.
- 6. Press "POWER ON" button to turn the DVD player

VIDEO 2

7

J DVD

POWER ON

7. Press "DVD" button to control the DVD player.

POWER ON

8. Press "▶" button to start playback.

20

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■To remove a macro program

• When removing a macro program, perform the above steps (1) and (3), but ignore the step (2).

■To change a macro program

- When a new macro program is stored into a MACRO button with performing the above steps (1) to (3), the previous macro program is cleared from the memory of the MACRO button.
- The codes programmed into a MACRO button will be transmitted at an interval of 0.5 seconds. However, some components may not be able to complete one operation in 0.5 seconds and may miss the next code.

In this case, the macro function cannot control the corresponding components correctly.

- · Be sure to use the remote control within the remote control operation range of the
- Depending on the operation status of the components, etc., the macro function cannot control the corresponding components correctly.

(M1)

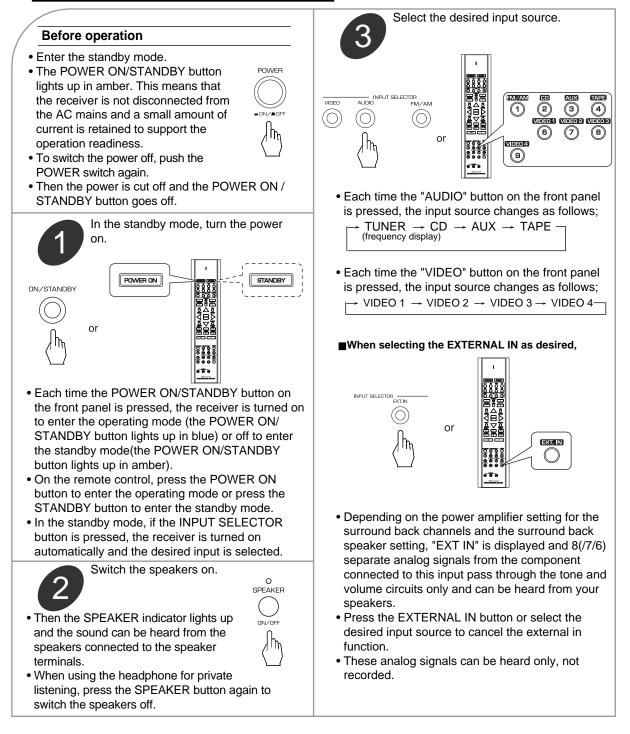
ENGLISH

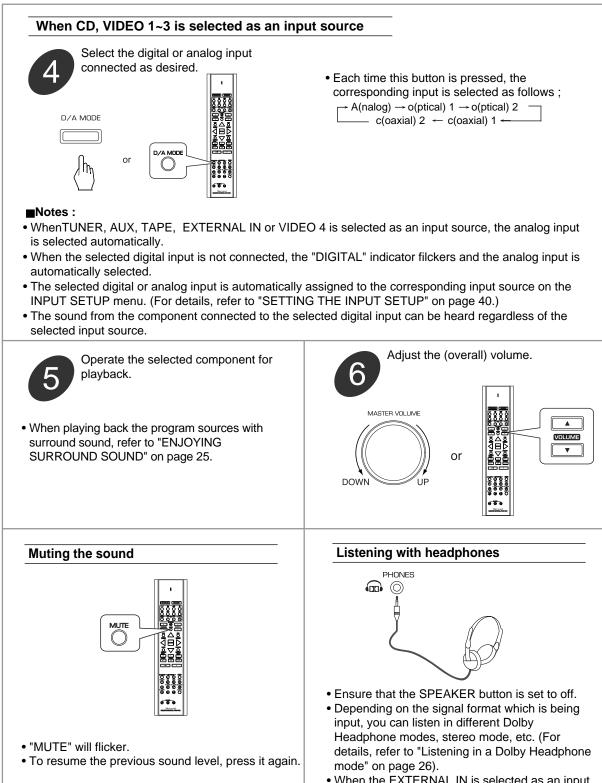
Operations

■Notes:

- Before operating this receiver with the supplied remote control, refer to "Universal Remote Controls" on page 15 for details about operation.
- Before operating this receiver, first set this unit as desired for optimum performance, doing the OSD menu setting procedures. (For details, refer to "OSD Menu Settings" on page 35.)

LISTENING TO A PROGRAM SOURCE





• When the EXTERNAL IN is selected as an input source, only front left and front right channel signals can be reproduced through the headphones.

SURROUND SOUND

• This receiver incorporates a sophisticated Digital Signal Processor that allows you to create optimum sound quality and sound atmosphere in your personal Home Theater.

Surround modes

DTS Digital Surround

DTS Digital Surround(also called simply DTS) is a multichannel digital signal format which can handle higher data rates. Discs bearing the "

up to 5.1 channels of digital signals, which can be generally thought to provide better sound quality due to the lower audio compression required.

It also provides wide dynamic range and separation, resulting in magnificent sound.

■DTS - ES Extended Surround™ (

This is a new multi channel digital signal format which greatly improves the 360- degree surround impression and space expression thanks to further expanded surround signals, offering high compatibility with the conventional DTS format. In addition to the 5.1 channels, DTS-ES Extended Surround also offers the surround back (sometimes also referred to as "surround center") channel for surround playback with a total of 6.1 channels. DTS-ES Extended Surround includes two signal formats with different surround signal recording methods as follows:

• DTS-ES™ Discrete 6.1

Because the signals for 6.1 channels (including the surround back channel) are fully independent, it is possible to achieve a sense that the acoustic image are moving about freely among the background sounds surrounding the listener from 360 degrees. Though maximum performance is achieved when sound tracks recorded with this system are played using a DTS -ES decoder, when played with a conventional DTS decoder, the surround back channel signals are automatically downmixed to the surround left and surround right channels so that none of the signal components are lost.

• DTS - ES™ Matrix 6.1

With this format, the additional surround back channel signals undergo matrix encoding and are input to the surround left and surround right channels beforehand. During playback, they are decoded to the surround left, surround right and surround back channels.

Because the bit stream format is 100% compatible with conventional DTS signals, the effect of the DTS-ES Matrix 6.1 format can be achieved even with DTS 5.1- channel signal sources. Of course, it is possible to play DTS-ES Matrix 6.1 channel signal sources with a DTS 5.1 - channel decoder. When DTS-ES Discrete 6.1 or Matrix 6.1 sources are decoded with a DTS - ES decoder, the format is automatically detected upon decoding and the optimum surround mode is selected. However, some DTS - ES Matrix 6.1 sources may be detected as DTS sources. In this case, the DTS - ES Matrix mode should be selected manually to play these sources.

■DTS Neo : 6[™] surround

This mode applies conventional 2-channel signals such as digital PCM or analog stereo signals to the high precision digital matrix decoder used for DTS-ES Matrix 6.1 to achieve 6.1-channel surround playback. DTS Neo : 6 surround includes two modes for selecting the optimum decoding for the signal source.

DTS Neo : 6 Cinema

This mode is optimum for playing movies. Decoding is performed with emphasis on separation performance to achieve the same atmosphere with 2-channel sources as with 6.1-channel sources.

• DTS Neo : 6 Music

This mode is suited mainly for playing music. The front left and front right signals bypass the decoder and are played directly so there is no loss of sound quality, and the effect of the surround signals from the center, surround left, surround right and surround back channels adds a natural sense of expansion to the sound field.

■DTS 96/24

Conventional surround formats used sampling frequencies of 48 or 44.1 kHz, so 20 kHz was about the maximum playback signal frequency. With DTS 96/24, the sampling frequency is increased to 96 or 88.2 kHz to achieve a wide frequency range of over 40 kHz. In addition, this format has a resolution of 24 bits, resulting in the same frequency band and dynamic range as 96kHz / 24 bit PCM signals. As with conventional DTS surround, DTS 96/24 is compatible with a maximum of 5.1 channels. DTS 96/24 is fully compatible with the conventional DTS surround format, so DTS 96/24 sources can be played using a conventional DTS 5.1 channel decoder.

"DTS", "DTS-ES", "DTS 96/24" and "Neo:6" are trademarks of Digital Theater Systems, Inc.

■Dolby Digital

Dolby Digital is the multi- channel digital signal format developed by Dolby Laboratories. Discs bearing the

digital signals, which can reproduce much better sound quality, spatial expansion and dynamic range characteristics than the previous Dolby Surround effect.

■Dolby Digital EX

This mode creates the back (sometimes also referred to as "surround center") signals from the surround left and right signals in Dolby Digital 5.1 channel source using a matrix decoder and provides 6.1 channel surround playback. For the best results, this mode should be selected during playback of sources(bearing the "DIEDENT")") recorded in Dolby Digital EX.

With this additional channel, you can experience more dynamic and realistic moving sound especially. When Dolby Digital EX sources are decoded with a Dolby Digital EX decoder, the format is automatically detected upon decoding and the Dolby Digital EX mode is selected. However, some Dolby Digital EX sources may be detected as Dolby Digital sources. In this case, the Dolby Digital EX mode should be selected manually to play these sources.

Dolby Pro Logic IIx surround

Dolby Pro Logic IIx decodes all stereo (2 channel) and 5.1 channel sources and extends to 7.1channel surround playback. It delivers the most natural, full range and immersing 7.1 channel listening experience. Dolby Pro Logic IIx surround includes two modes as follows :

Dolby Pro Logic IIx Movie

When enjoying movies, this mode allows you to further enhance the cinematic quality by adding processing that emphasizes the sounds of the action special effects.

Dolby Pro Logic IIx Music

When listening to music, this mode allows you to further enhance the sound quality by adding processing that emphasizes the musical effects.

■Dolby Pro Logic II surround

This mode applies conventional 2-channel signals such as digital PCM or analog stereo signals as well as Dolby Surround signals, etc. to surround processing to offer improvements over conventional Dolby Pro Logic circuits. Dolby Pro Logic II surround includes Dolby Pro Logic II Movie and Dolby Pro Logic II Music like Dolby Pro Logic IIx surround.

■Dolby Virtual Speaker

This mode creates a virtual surround sound field using as few as two front speakers, allowing you to experience listening from 5.1 channel speakers.

This mode is effective not only for 5.1 channel sources but also for stereo(2 channel) sources.

Dolby VIrtual Speaker includes two listening mode as follows: • Dolby Virtual Speaker Reference

• Dolby Virtual Speaker Reference

The width of the front sound image is defined by the actual distance between front speakers.

• Dolby Virtual Speaker Wide

The width of the front sound image seems to extend beyond the front speakers.

■Dolby Pro Logic

Dolby Pro Logic is a specially encoded two channel surround format which consists of four channels (front left, center, fornt right and surround). Sources bearing the

sound. The surround channel is monaural, but is played through both surround speakers.

Dolby Headphone

The Dolby Headphone function simulates 5.1 channel surround sound, which allows you to enjoy 5.1 channel surround sound through 2 channel headphones, just like listening from 5.1 channel speakers. This mode is effective not only for 5.1 channel sources but also for stereo(2 channel) sources.

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

 The following modes apply conventional 2-channel signals such as digital PCM or analog stereo signals to high performance Digital Signal Processor to recreate sound fields artificially. Select one of the 3 provided surround modes according to the program source you want to play.

Theater

This mode provides the effect of being in a movie theater when watching a movie.

∎Hall

This mode provides the ambience of a concert hall for classical music sources such as orchestral, chamber music or an instrumental solo.

■Stadium

This mode provides the expansive sound field to achieve the true stadium effect when watching baseball or soccer games.

• When using the EXTERNAL INs to play back the sound from the additional multi-channel decoder for surround sound, you can enjoy the corresponding surround sound, too.(For details, refer to the operating instructions of the component to be connected.)

Modes Channels	FRONT L/R	CENTER	SURROUND L/R	SURROUND BACK L/R	SUBWOOFER
DTS, DTS 96/24	0	0	0	—	0
DTS ES DISCRETE/MATRIX	0	0	0	0	0
DTS NEO: 6 CINEMA/MUSIC	0	0	0	0	(*)
DOLBY DIGITAL	0	0	0	—	0
DOLBY DIGITAL EX	0	0	0	0	0
DOLBY PRO LOGIC IIx MOVIE/MUSIC	0	0	0	0	0
DOLBY PRO LOGIC II MOVIE/MUSIC	0	0	0	—	0
DOLBY PRO LOGIC	0	0	0	—	(*)
DOLBY VIRTUAL SPEAKER	0	0	0	—	0
Other Surrounds	0	0	0	0	(*)
STEREO	0	_	_	_	(*)
EXTERNAL IN	0	0	0	0	0

For your reference, the sound from each channel can be reproduced according to the surround modes as follows:

(*): Depending on the subwoofer setting, the sound from the subwoofer channel may be reproduced.

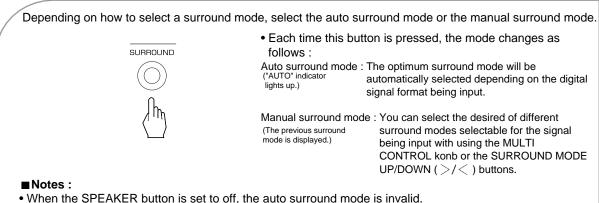
• Depending on the speaker settings and the number of the encoded channels, etc., the sound from the corresponding channels cannot be reproduced.(For details, refer to "SETTING THE SPEAKER / ROOM EQ SETUP" on page 43.)

ENGLISH

ENJOYING SURROUND SOUND

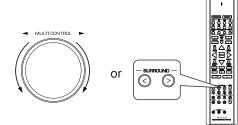
■Notes:

- Before surround playback, first perform the speaker setup procedure, etc. on the OSD menu for optimum performance. (For details, refer to "SETTING THE SPEAKER/ROOM EQ SETUP" on page 43.)
- When playing digital signals from the Dolby Digital program source or selecting the surround mode such as Dolby Pro Logic II /Dolby Pro Logic IIx Music, Dolby Headphone, Dolby Virtual Speaker modes, you can adjust their parameters for optimum surround effect. (For details, refer to "SETTING THE SOUND PARAMETER" on page 52.)
- When the EXTERNAL IN is selected as an input source, the surround modes cannot be selected.



- Even when the auto surround mode is selected and the same type of digital signal format is being input, the optimum surround mode may vary depending on whether the speaker type is set to "NONE" or not.
- When the auto surround mode is selected and the PCM (2 channel) digital signal or the analog stereo signal is being input, only the stereo mode will be selected.
- When the auto surround mode is selected, the surround modes other than the optimum surround mode cannot be selected.
- ■When selecting the manual surround mode with pressing the SURROUND MODE button on the front panel.

Select the desired surround mode.



• Each time the MULTI CONTROL konb is rotated or the SURROUND MODE UP / DOWN (>/<) buttons are pressed, the surround mode changes depending on the input signal format as follows :

Signal format being input	Selectable surround mode			
Dolby Digital EX6.1 channel sources,	(DOLBY D + PLIIX MOVIE), < DOLBY D + PLIIX MUSIC, DOLBY DIGITAL EX>,			
Dolby Digital 5.1 channel sources	DOLBY DIGITAL, DOLBY VS REF, DOLBY VS WIDE			
Dolby Digital 2 channel sources	<dolby dolby="" movie,="" music="" pliix="">, [DOLBY PLII MOVIE, DOLBY PLII MUSIC],</dolby>			
	DOLBY PRO LOGIC, DOLBY VS REF, DOLBY VS WIDE			
DTS sources	corresponding DTS mode, DOLBY VS REF, DOLBY VS WIDE, {DTS + NEO:6}			
96 kHz PCM (2channel) sources	<dolby dolby="" movie,="" music="" pliix="">, [DOLBY PLII MOVIE, DOLBY PLII MUSIC],</dolby>			
	DOLBY PRO LOGIC, NEO:6 CINEMA, NEO:6 MUSIC, THEATER, HALL, STADIUM			
PCM (2channel) sources	<dolby dolby="" movie,="" music="" pliix="">, [DOLBY PLII MOVIE, DOLBY PLII MUSIC],</dolby>			
Analog stereo sources	DOLBY PRO LOGIC, DOLBY VS REF, DOLBY VS WIDE, NEO:6 CINEMA, NEO:6 MUSIC, THEATER, HALL, STADIUM			

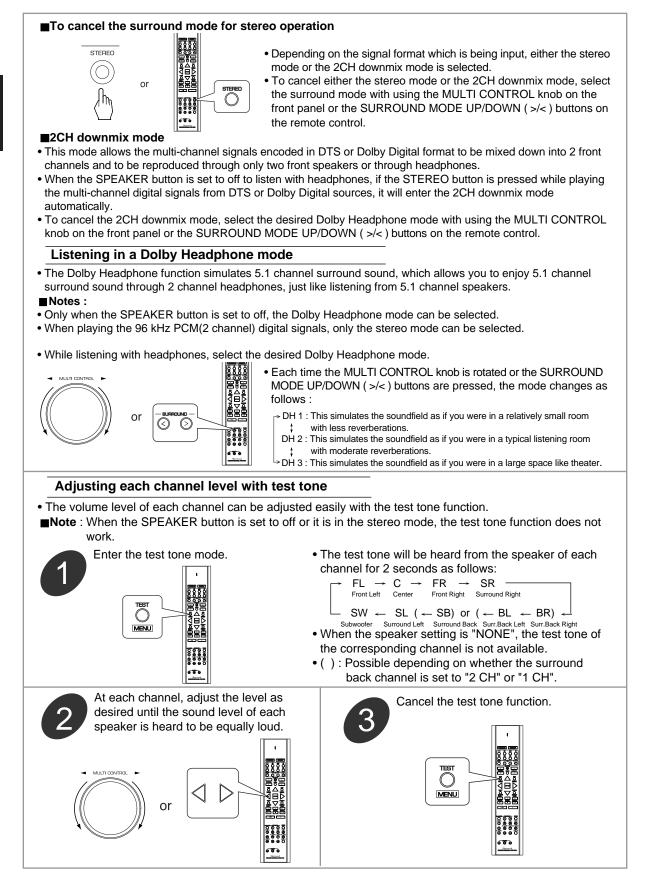
Depending on surround speaker setting, some surround modes can be selected or not as follows

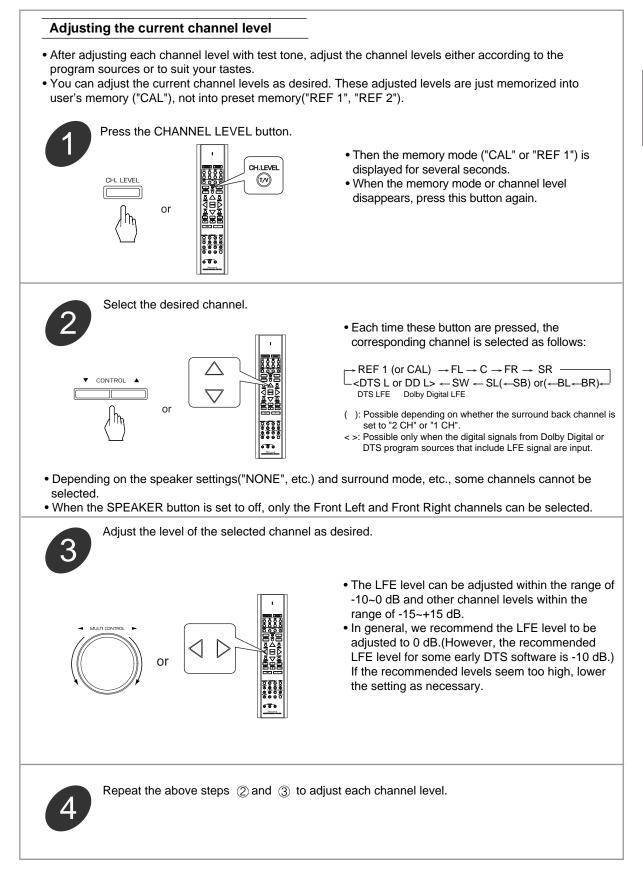
< >: Possible only when surround back speaker is not set to "NONE".

[]: Possible only when surround back speaker is set to "NONE".

(): Possible only when surround back speaker is set to " 2CH".

{ }: Possible only when surround back speaker is not set to "NONE" while playing the digital signals from DTS 5.1 channel sources only(, not DTS 96/24 sources).







• You can memorize the adjusted channel levels into preset memory("REF 1", "REF 2") and recall the memorized whenever you want.



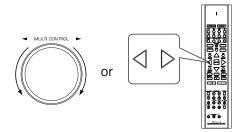
After performing the steps $(\gamma \sim a)$ in "Adjusting the current channel level" procedure on page 27, press the (MEMORY/) ENTER button.

• The "1" of "REF 1" indication flickers for several seconds. MEMO/ENTER ENTER or M Select the desired one of REF 1 and Confirm your selection. REF 2. MEMO/ENTER C or or m • The adjusted channel levels have now been • If the preset memory disappears, perform the memorized into the selected memory. above step 1 again. Recalling the memorized channel levels Press the CHANNEL LEVEL button.

CH.LEVEL CH. LEVEL (T/V) or ١ħ • "REF 1" (or "CAL") is displayed for several seconds. • If the channel level mode display disappears, press this button again.

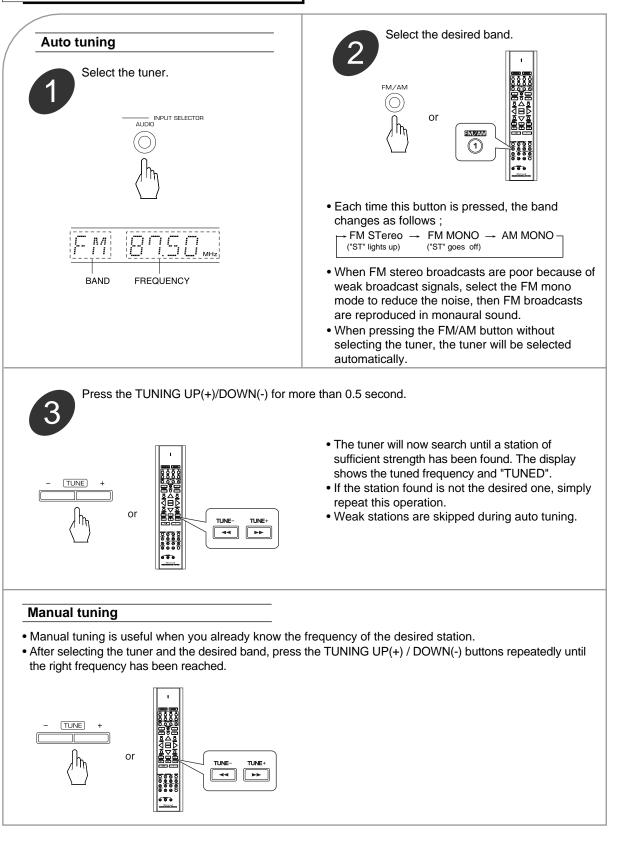
Select the desired one of REF 1 and REF 2.

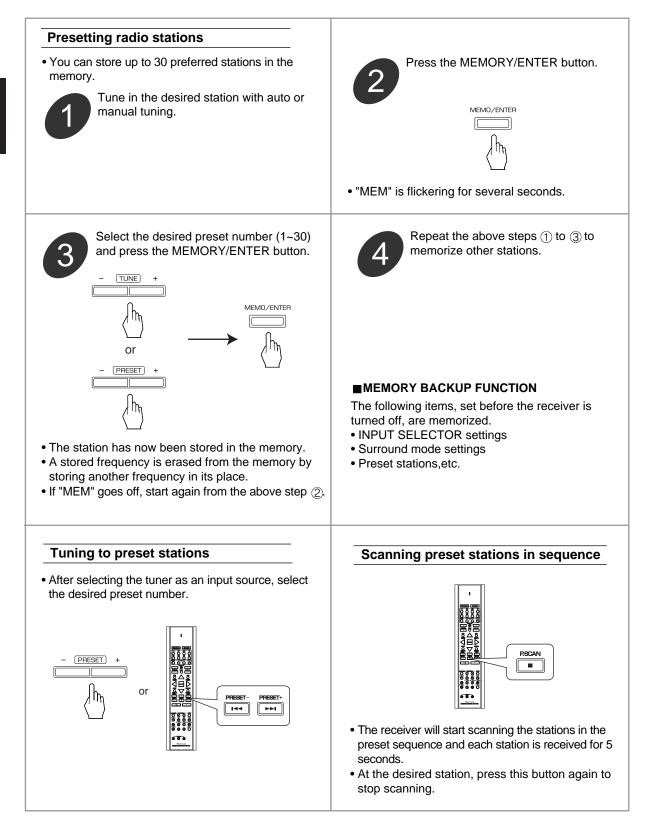
ENTER



• Then the channel levels memorized into the selected preset memory are recalled.

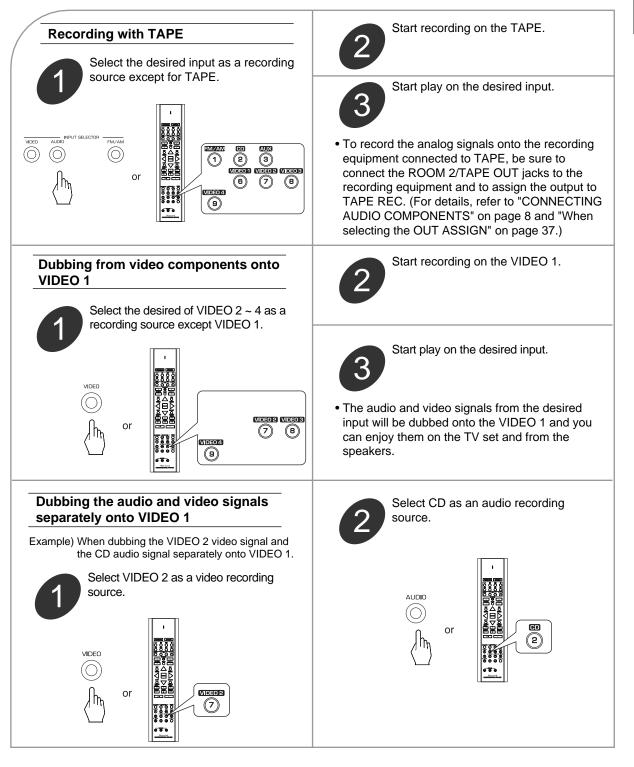
LISTENING TO RADIO BROADCASTS





RECORDING

- The analog signals from the EXTERNAL INs as well as the digital signals from the coaxial or optical digital input can be heard but cannot be recorded.
- When recording the analog signals from CD, VIDEO 1~3, be sure to select the analog input.
- (For details, refer to "When CD, VIDEO 1~3 is selected as an input source" on page 22.)
- The volume and tone (bass, treble) settings have no effect on the recording signals.





Start recording on the VIDEO 1.



Start play on the VIDEO 2 and the CD respectively.

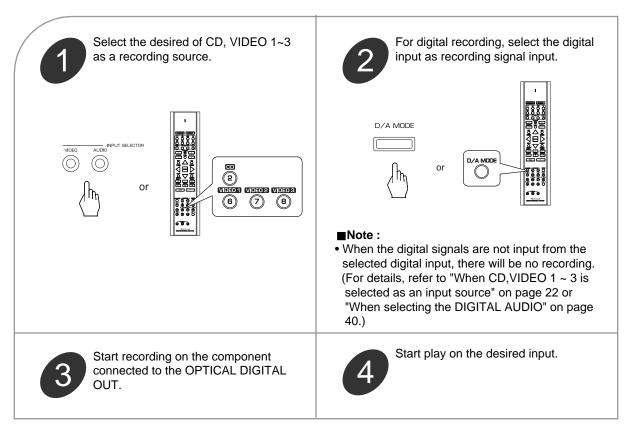
- The audio signal from the CD and the video signal from the VIDEO 2 will be dubbed and you can enjoy them on the TV set and from the speakers.
- ■Note: Be sure to observe the order of the above steps ① and ②.

DIGITAL AUDIO RECORDING WITH MD RECORDER

Only when the OPTICAL DIGITAL OUT of this receiver is connected to the OPTICAL DIGITAL IN of the MD recorder or CD
recorder, you can enjoy high-quality sound of digital recording without converting the original signals. Refer to "CONNECTING
VIDEO COMPONENTS", "CONNECTING AUDIO COMPONENTS" and "CONNECTING DIGITAL INs and OUT" on pages
6~8 and the operating instructions of the MD recorder or CD recorder.

■Notes:

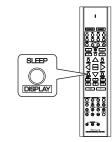
- Digital recording is available for the digital audio program sources such as CDs, MDs, some DVDs, etc.
- In most DVDs as well as some CDs, etc., digital recording may not be available depending on the signal format.
- There are some restrictions on recording digital signals. When making digital recordings, refer to the operating instructions of your digital recording equipment to know what restrictions are imposed.



OTHER FUNCTIONS

Operating the sleep timer

- The sleep timer allows the system to continue to operate for a specified period of time before automatically shutting off.
- To set the receiver to automatically turn off after the specified period of time.

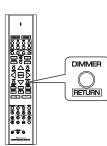


• Each time this button is pressed, the sleep time changes as follows:

 $\rightarrow 10 \rightarrow 20 \rightarrow 30 \rightarrow \dots \rightarrow 90 \rightarrow OFF$ -Unit : minutes

- While operating the sleep timer, " *) " lights up.
- When the sleep time is selected, all display panels of Sherwood components connected by the DIGI LINK III are dimly lit.

Adjusting the brightness of the fluorescent displays



• Each time this button is pressed, the brightness of all fluorescent displays of Sherwood components connected by the DIGI LINK III changes together as follows:

 \rightarrow ON \rightarrow dimmer \rightarrow OFF -

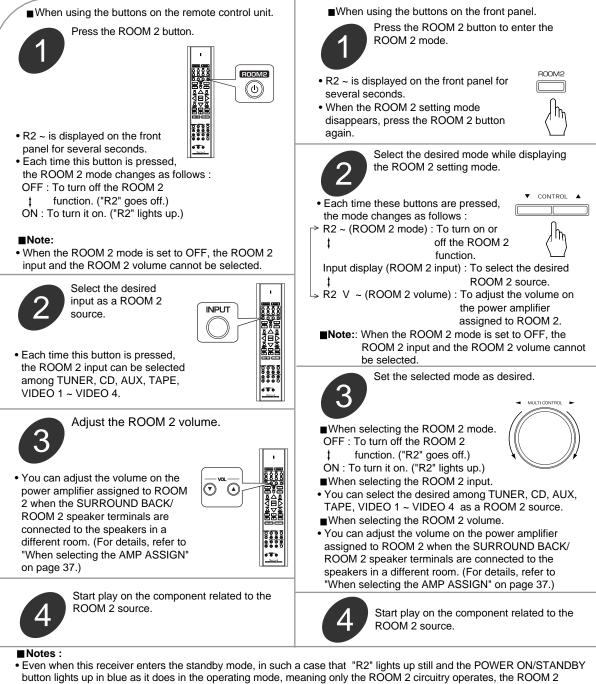
• In the display OFF mode, pressing any button will restore the display ON mode.

ROOM 2 SOURCE PLAYBACK

- This function allows enjoying one source in the main room and playing another in a different room at the same time.
- When you connect the multi-room system kit to the IR IN jack of this receiver, you can control this receiver with the remote control unit in a different room. (For details, refer to "CONNECTING MULTI-ROOM SYSTEM KIT" on page 12.)

■Notes:

- The analog signals from the EXTERNAL INs and the digital signals cannot be output to the different room, meaning no playback in a different room.
- You cannot play the ROOM 2 source in any surround mode.



- source can be played independently.
- When the ROOM 2 function is operating in the standby mode, only the remote control unit is available.
- When you do not use the ROOM 2 function, turn off the ROOM 2 function to save electricity.

ENGLISH

OSD Menu Settings

• The OSD (On-Screen Display) menu is a setting menu that is displayed on the monitor TV and allows you to perform the setup procedures easily. In most situations, you will only need to set this once during the installation and layout of your home theater, and it rarely needs to be changed later.

The OSD menu consists of 6 main menus ; system setup, input setup, speaker / room EQ setup, CH level setup, sound parameter and room 2 setup. These menus are then divided up into various sub-menus.

■Note :

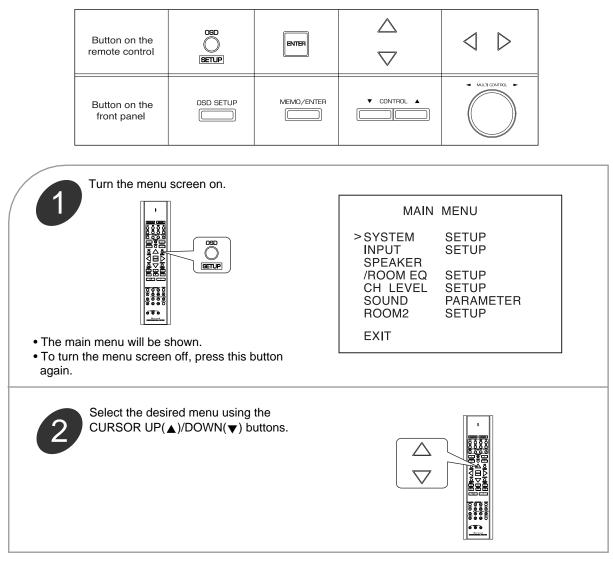
 Depending on the VIDEO MODE setting and the video connections between this receiver and the video component, the OSD menu and the momentary OSD cannot be displayed via MONITOR COMPOSITE OUT jack, or the picture is automatically turned off and only the OSD menu can be displayed via MONITOR COMPONENT OUT jacks.

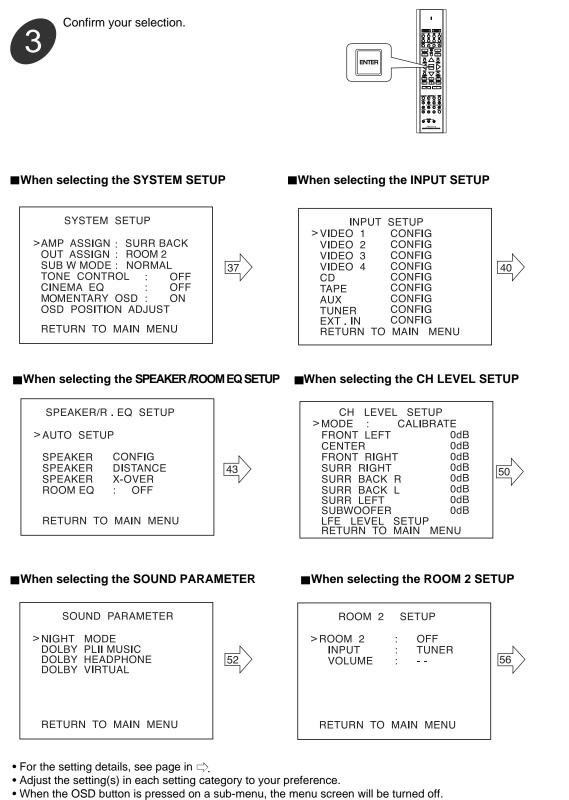
(For details, refer to "Relationship between the video input signal and the video output signal" on page 7.)

■Navigating through the OSD menu

• The explanations here assume you are using the buttons on the remote control when performing the OSD menu operation. However, you can use the buttons on the front panel as well.

The buttons on the front panel correspond to those on the remote control as shown below.

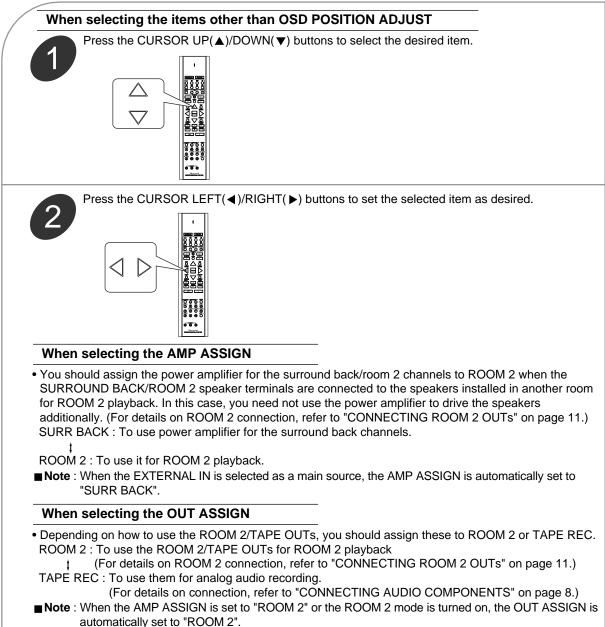


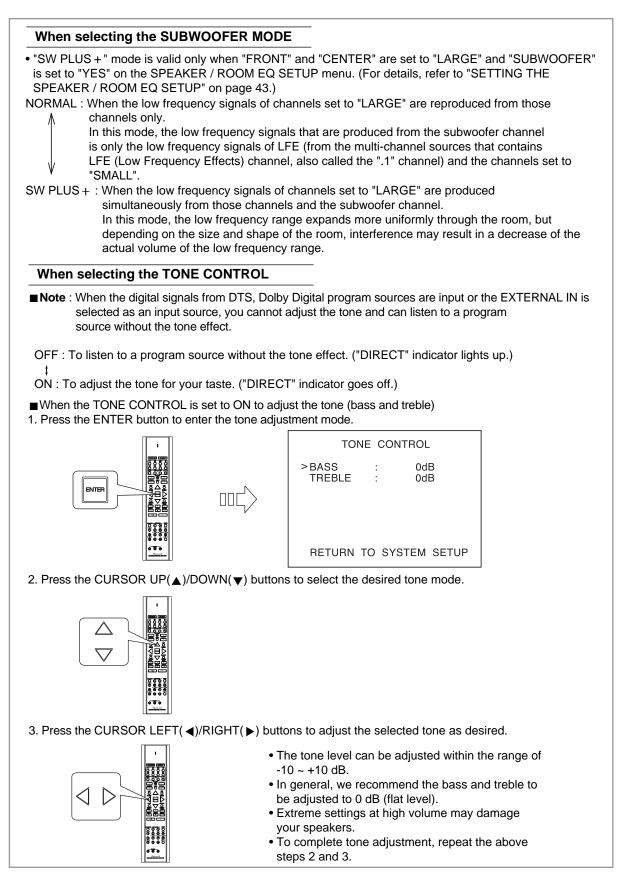


momentary OSD and the OSD menu.

AMP ASSIGN : To assign the surround back channel's power SYSTEM SETUP amplifier to ROOM 2 for ROOM 2 playbak. • OUT ASSIGN : To assign the ROOM 2/TAPE OUTs to TAPE >AMP ASSIGN : SURR BACK REC for analog audio recording. OUT ASSIGN : ROOM 2 • SUBWOOFER MODE : To select the desired subwoofer mode. SUB W MODE : NORMAL • TONE CONTROL : To adjust the tone (bass and treble) as TONE CONTROL OFF desired. CINEMA EQ OFF • CINEMA EQ : To select the desired cinema EQ mode. MOMENTARY OSD ON • MOMENTARY OSD : To turn on or off the OSD that shows the OSD POSITION ADJUST status corresponding to each operation RETURN TO MAIN MENU momentarily. OSD POSITION ADJUST : To adjust the positon of the

SETTING THE SYSTEM SETUP





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When selecting the CINEMA EQ

OFF : To turn off the cinema EQ function.

ON : To compensate for edgy or shrill movie sound tracks.

■Note : When the EXTERNAL IN is selected as an input source, the CINEMA EQ is automatically set to OFF.

When selecting the MOMENTARY OSD

ON : To turn on the OSD function that shows the status corresponding to each operation on this unit t momentarily.

OFF : To turn it off.

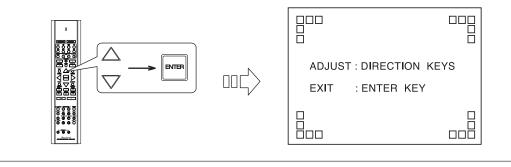
■ Note : When outputting the component video signal from the MONITOR COMPONENT OUT jacks as it was input, the momentary OSD cannot be displayed.

When selecting the OSD POSITION ADJUST

 You can adjust the position of the momentary OSD and the OSD menu that are displayed on the monitor TV.

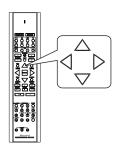


Press the CURSOR UP(\blacktriangle)/DOWN(\blacktriangledown) buttons to select the OSD POSITION ADJUST, then press the ENTER button.





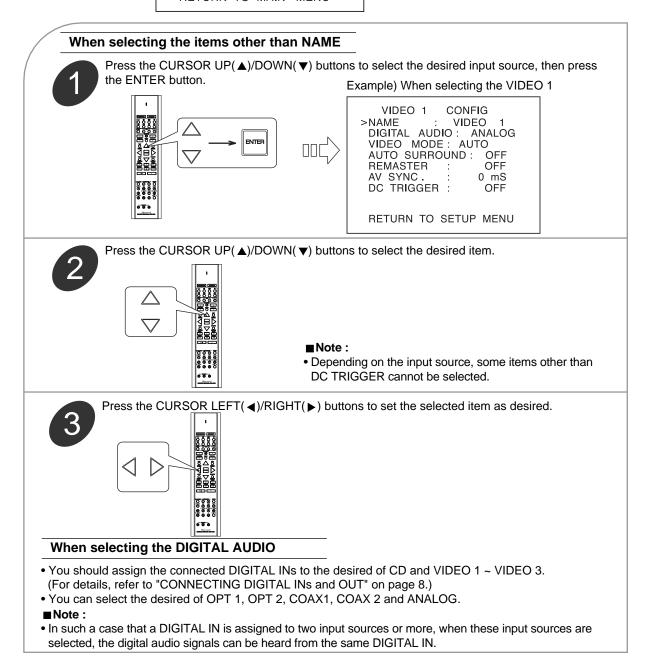
Press the CURSOR UP(\blacktriangle)/DOWN(\checkmark)/LEFT(\triangleleft)/RIGHT(\triangleright) buttons to adjust the position of the momentary OSD and the OSD menu as desired.



SETTING THE INPUT SETUP

• This menu allows you to make the various settings depending on how to use the input sources connected to this receiver.

INPUT	SETUP
>VIDEO 1	CONFIG
VIDEO 2	CONFIG
VIDEO 3	CONFIG
VIDEO 4	CONFIG
CD	CONFIG
TAPE	CONFIG
AUX	CONFIG
TUNER	CONFIG
EXT.IN	CONFIG
RETURN TO	MAIN MENU



When selecting the VIDEO MODE

You can select the video input signal to be output from the MONITOR OUTs.

- → AUTO : When there are mutiple video input signals, the video input signals are detected and the video input signal to be output from the MONITOR OUTs is selected automatically in the following order : component video, S-video, composite video.
 - COMPOSITE : The signal that is input into the (COMPOSITE) VIDEO jack is always played. The composite video input signal is up-converted and output from the S-VIDEO and COMPONENT MONITOR OUT jacks.

S-VIDEO : The signal that is input into the S-VIDEO jack is always played. The S-video input signal is converted and output from the (COMPOSITE) VIDEO and COMPONENT MONITOR OUT jacks.

COMPONENT : The signals that are input into the COMPONENT jacks are always played.

Because video conversion is not performed, no video signals are output from the MONITOR OUT jacks when there are no video signals that are input into the COMPONENT jacks.

• For details, refer to "Relationship between the video input signal and the video output signal" on page 7.

When selecting the AUTO SURROUND

 Depending on how to select a surround mode, you can select the auto surround mode or the manual surround mode.

ON : The optimum surround mode will be automatically selected depending on the digital (Auto surround mode) signal format being input.

t OFF

: You can select the disired of different surround modes selectable for the signal being (Manual surround mode) input with using the MULTI CONTROL knob or the SURROUND MODE UP/DOWN (>/<) buttons. (For details, refer to "When selecting the manual surround mode with pressing the SURROUND MODE button on the front panel" on page 25.)

■ Notes :

- When the SPEAKER button is set to off, the auto surround mode is invalid.
- Even when the auto surround mode is selected and the same type of digital signal format is being input, the optimum surround mode may vary depending on whether the speaker type is set to "NONE" or not.
- When the auto surround mode is selected and the PCM (2 channel) digital signal or the analog stereo signal is being input, only the stereo mode will be selected.
- When the auto surround mode is selected, the surround modes other than the optimum surround mode cannot be selected.

When selecting the REMASTER

• The remastering processes the input digital signal and converts its digital sampling frequency to twice the current frequency (88.2/96 kHz) for a more detailed sound reproduction.

ON : To process the input digital signal and to convert its sampling frequency to 88.2/96 kHz for a more detailed sound reproduction. t i

OFF : To turn off the remastering function.

Notes :

- The remastering function have no effect on the input digital signal from the 88.2/96 kHz source or higher as well as the digital signal that is output from the OPTICAL DIGITAL OUT of this receiver.
- When playing an analog input source, the remastering function cannot be activated.

When selecting the AV SYNC

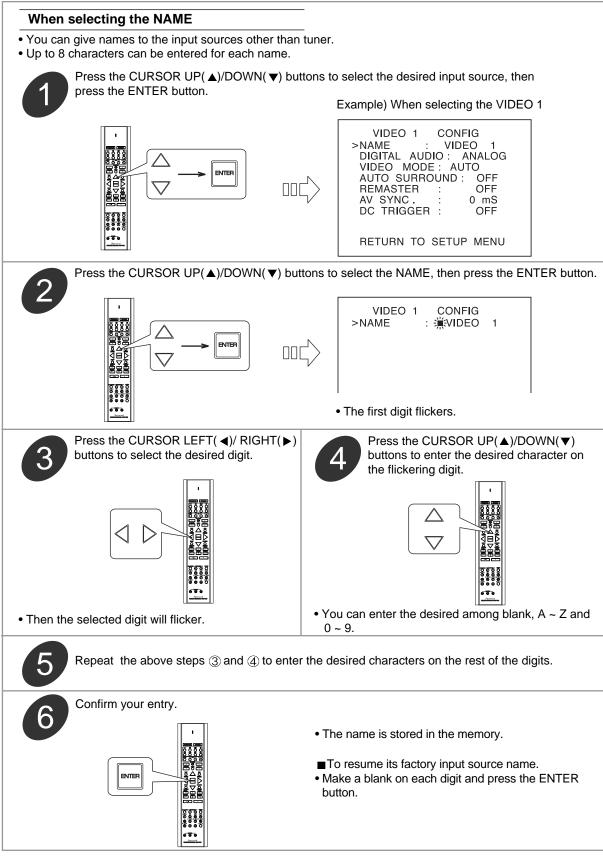
- There may be a slight time delay between the video and audio signals in case that some video playback equipments may process the video signals later than the audio signals due to signal processing procedure, etc.. Should this happen, you can adjust the time delay of audio signals to synchronize the sound with the picture.
- The time delay can be adjusted within the range of 0 ~ 200 msec.

When selecting the DC TRIGGER

 To turn on the component connected to the DC TRIGGER OUT jack when this input source is selected. you should set the DC TRIGGER to ON for this input source. OFF : To turn off the DC trigger function.

ON: To turn it on.

• For details, refer to "CONNECTING DC TRIGGER OUT" on page 11.



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SETTING THE SPEAKER / ROOM EQ SETUP

- After you have installed this receiver and connected all the components, you should adjust the speaker settings for the
 optimum sound acoustics according to your environment and speaker layout.
- Even when you change speakers, speaker positions, or the layout of your listening environment, you should adjust the speaker settings, too.
- When performing the AUTO SETUP procedure, you need not perform the SPEAKER CONFIGURATION, SPEAKER DISTANCE, SPEAKER X-OVER and CH LEVEL SETUP procedures.

SPEAKER/R . EQ SETUP	AUTO SETUP : To set the speaker setup and channel level setup automatically.
>AUTO SETUP	SPEAKER CONFIGURATION : To select the sizes of the speakers that are connected.
SPEAKER CONFIG SPEAKER DISTANCE SPEAKER X-OVER ROOM EQ : OFF	 SPEAKER DISTANCE: To enter the distance between the listening position and each speaker to set the delay time automatically for optimum surround playback. SPEAKER CROSSOVER : To select the desired crossover frequency. ROOM EQ : To turn on or off the room EQ.
RETURN TO MAIN MENU	

When selecting the AUTO SETUP

Auto Setup lets you avoid troublesome listening-based speaker setup and achieve good surround sound. Auto Setup
has the feature that provides the optimum listening environment at two main listening positions in your room, where
there are often multiple listeners viewing programs together.
You should connect the supplied microphone to the SETUP MIC jack so that this receiver can analyze the information

from a series of test tones emitted from speakers at two main listening positions and can adjust the size, distance, sound level, crossover frequency and frequency response of each speaker automatically.

For optimum effectiveness, move the microphone from first position to second position within the listening area surrounded by the speakers while performing the auto setup.

About the first listening position

The first listening position is the point where a listener sits most often or the listening position when only one person is listening. Measurements start from this point.

- If you want to personalize your speaker setup and channel level setup by making the settings manually, perform the "When selecting the SPEAKER CONFIGURATION" on page 45, "When selecting the SPEAKER DISTANCE" on page 47, "When selecting the SPEAKER X-OVER" on page 48, "Adjusting each channel level with test tone" on page 26 and "Adjusting the current channel level" on page 27.
- After the auto setup has been completed, set the room EQ mode as desired. (For details, refer to "When selecting the ROOM EQ" on page 49.)

Preparations

- 1. Check that the speakers are securely connected to this receiver.
 - If your subwoofer has adjustable volume and crossover frequency, set the volume halfway and set the crossover frequency to the maximum or the low pass filter off.
- 2. Connect the supplied microphone to the SETUP MIC jack on the front panel.(For details, refer to "SETUP MIC JACK" on page 14.)

■Notes :

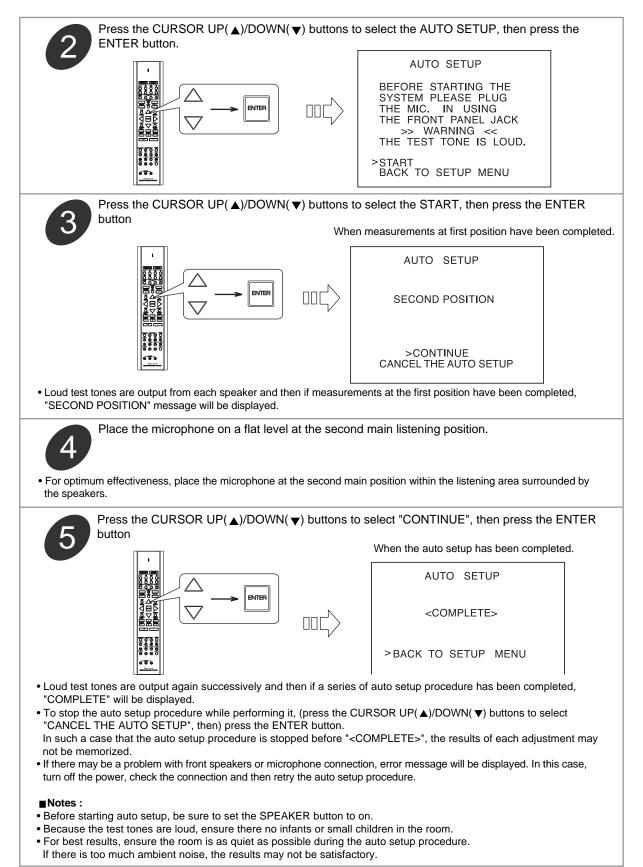
- Because the microphone for Auto Setup is designed for use with this receiver, to use the auto setup function, do not use a microphone other than the one supplied with this receiver.
- After you have completed the auto setup procedure, disconnect the microphone.

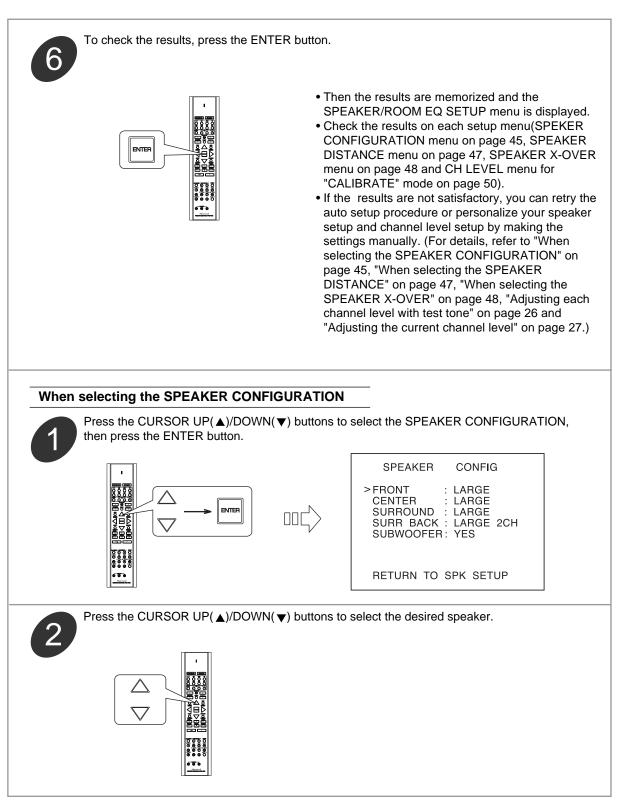
1

Place the microphone on a flat level surface at the first main listening position.

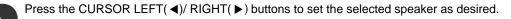
- If possible, use a tripod, etc. to attach the microphone at the same height as your ears would be when you are seated in your listening position.
- Ensure there are no obstacles between the speakers and the microphone.

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- Depending on your speaker type, you can select one of these following speaker types.
 - LARGE: Select this when connecting speakers that can fully reproduce sounds below crossover frequency.
 - SMALL: Select this when connecting speakers that can not fully reproduce sounds below crossover frequency. When this is selected, sounds below crossover frequency are sent to the subwoofer or speakers which are set to LARGE(when not using a subwoofer)
 - NONE: Select this when no speakers are connected. When this is selected, sounds are sent to the speakers which are not set to NONE. 2CH/1CH: Select the desired depending on the number of surround back
 - Speakers. YES/NONE: Select the desired depending on whether a subwoofer is connected or not.

■Notes :

- When speakers are set to "SMALL", you should set their crossover frequency correctly according to their frequency characteristics. (For details, refer to "When selecting the SPEAKER X-OVER" on page 48.)
- When "SUBWOOFER" is set to "NONE", "FRONT" is automatically set to "LARGE".
- When the "FRONT" is set to "SMALL", "CENTER", "SURROUND", "SURR BACK" cannot be set to "LARGE" and "SUBWOOFER" is automatically set to "YES".
- . When the "SURROUND" is set to "SMALL", "SURR BACK" cannot be set to "LARGE".
- When the power amplifier for surround back/room 2 channels is assigned to "ROOM 2", the "SURR BACK" is automatically set to "NONE". (For details, refer to "When selecting the AMP ASSIGN" on page 37.)
- ■When setting the speaker size by performing the auto setup.
- If the speakers may not be detected properly because of incorrect connection, measurement environment, or other factors, the speakers are set as follows :
- When a pair of speakers such as front, surround or surround back speakers are detected differently (i.e, one is detected as "LARGE", the other as "SMALL"), both are automatically set to "SMALL".
- When only one surround speaker is detected, both are automatically set to "NONE".
- When only the surround back right speaker is detected, both are automatically set to "NONE". In this case, connect that speaker to the SURROUND BACK/ROOM 2 LEFT speaker terminals and retry the auto setup, then it will be automatically set to "1CH".

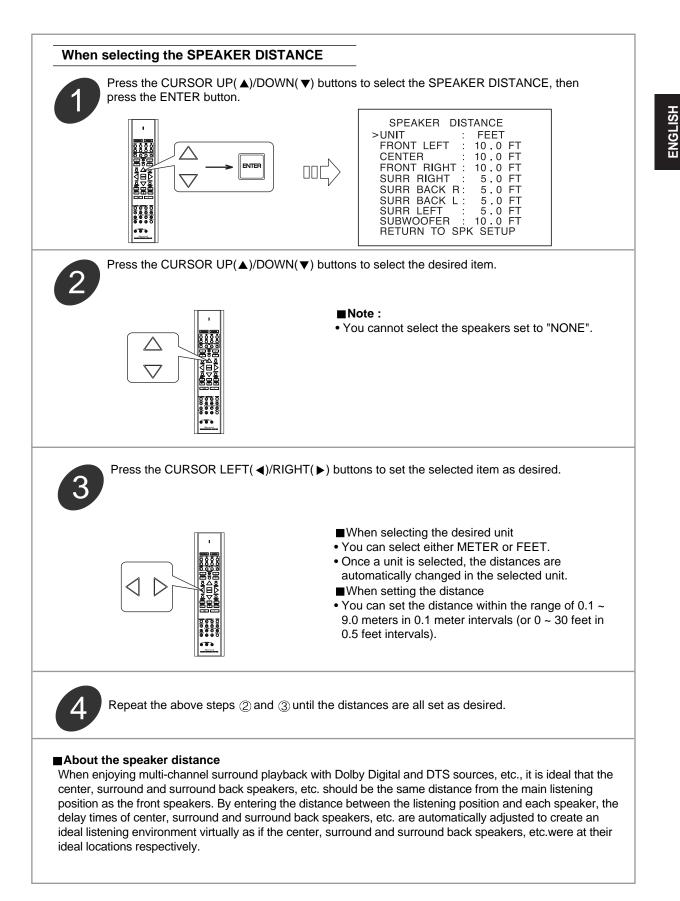


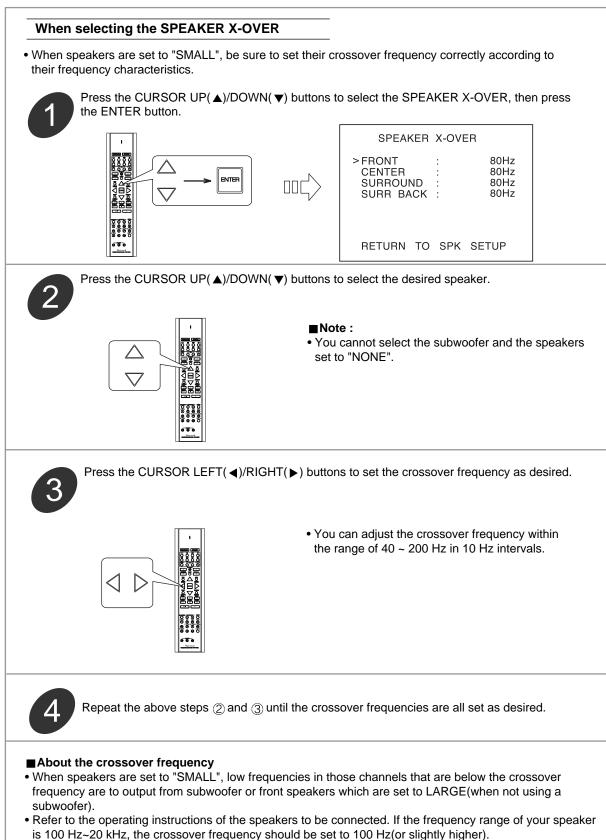
Repeat the above steps (2) and (3) until the speakers are all set to the desired mode.

■About the speaker size

- Select "LARGE" or "SMALL" not according to the actual size of the speaker but according to the speaker's capacity for playing low frequency (bass sound below frequency set on the SPEAKER X-OVER menu) signals.
- If you do not know, try comparing the sound at both settings (setting the volume to a level low enough so as not to damage the speakers) to determine the proper setting.
- When setting the speaker size by performing the auto setup, depending on whether the measured crossover frequency of each speaker is lower or higher than 80 Hz, its size is automatically set to "LARGE" or "SMALL". (For details, refer to "When selecting the SPEAKER X-OVER" on page 48.)

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When selecting the ROOM EQ

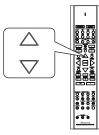
- The room EQ is a kind of room equalizer for your speakers. According to the acoustic characteristics of your room measured by the auto setup, the room EQ automatically adjusts the frequency response of speakers.
- If you use different brands or sizes of speakers for some channels or have a room with unique acoustic characteristics, such as walls, furniture, and the dimensions or the shape of the room, we recommend using the room EQ.

■Note :

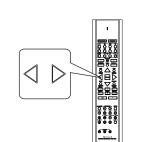
• To use the room EQ, first you should finish measuring the acoustic characteristics of your room performing the auto setup.

(For details, refer to "When selecting the AUTO SETUP" on page 43.)

Press the CURSOR UP(\blacktriangle)/DOWN(\bigtriangledown) buttons to select the ROOM EQ.



Press the CURSOR LEFT(\triangleleft)/RIGHT(\triangleright) buttons to select the desired room EQ mode.



ON : When turning on the room EQ.

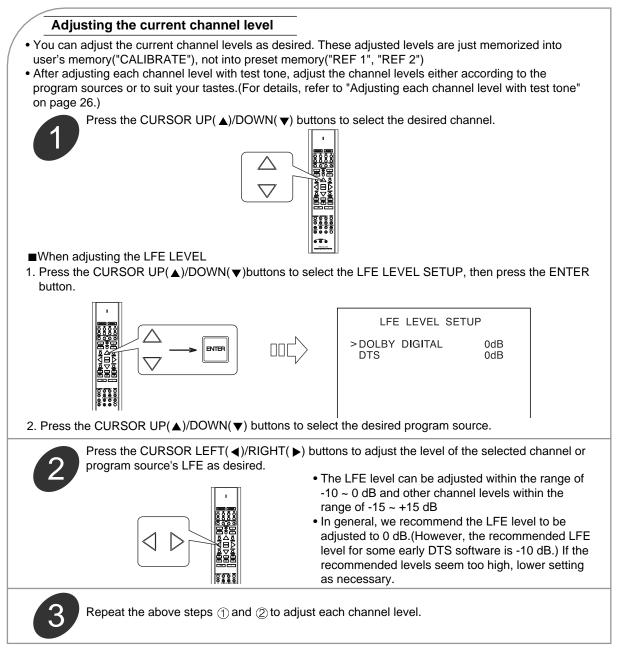
OFF : When turning it off.

SETTING THE CH LEVEL SETUP

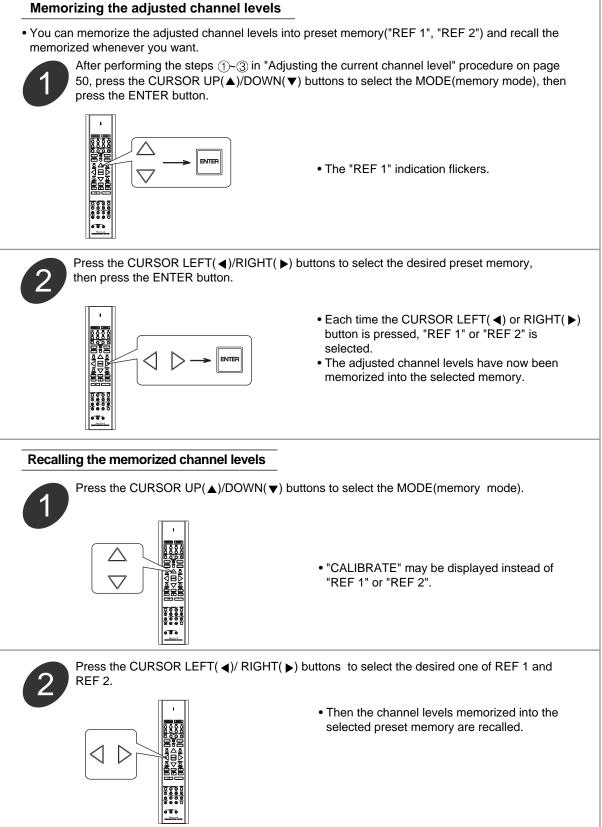
CH LEVEL	SETUP CALIBRATE	Memory mode
FRONT LEFT	0dB	-Memory mode
CENTER	0dB	
FRONT RIGHT	0dB	
SURR RIGHT	0dB	
SURR BACK R	0dB	
SURR BACK L	0dB	
SURR LEFT	0dB	
SUBWOOFER	0dB	
	ETUP AIN MENU	

■Note :

• Depending on the speaker settings("NONE", etc.), some channels cannot be selected.







SETTING THE SOUND PARAMETER

DOLBY HEADPHONE : To select the desired listening mode for each Dolby Headphone mode. DOLBY VIRTUAL : To select the speaker layout to be used	SOUND PARAMETER > NIGHT MODE DOLBY PLII MUSIC DOLBY HEADPHONE DOLBY VIRTUAL	 NIGHT MODE : To adjust the dynamic range compression that makes faint sound easier to hear at low volume levels. DOLBY PLII MUSIC : To adjust the various surround parameters for optimum surround effect.
		DOLBY HEADPHONE : To select the desired listening mode for each Dolby Headphone mode.

When selecting the NIGHT MODE

• This function compresses the dynamic range of previously specified parts of the Dolby Digital sound track (with extremely high volume) to minimize the difference in volume between the specified and nonspecified parts.

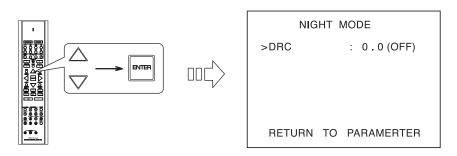
This makes it easy to hear all of the sound track when watching movies at night at low levels.

■Notes:

- The night mode setting is valid only when the digital signals from the Dolby Digital program source are being input.
- In some Dolby Digital softwares, the night mode setting may not be valid.

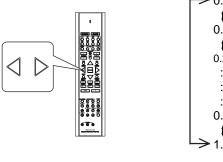


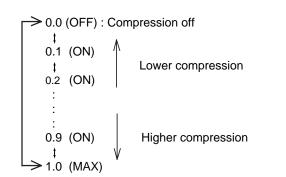
Press the CURSOR UP(▲)/DOWN(▼) buttons to select the NIGHT MODE, then press the ENTER button.

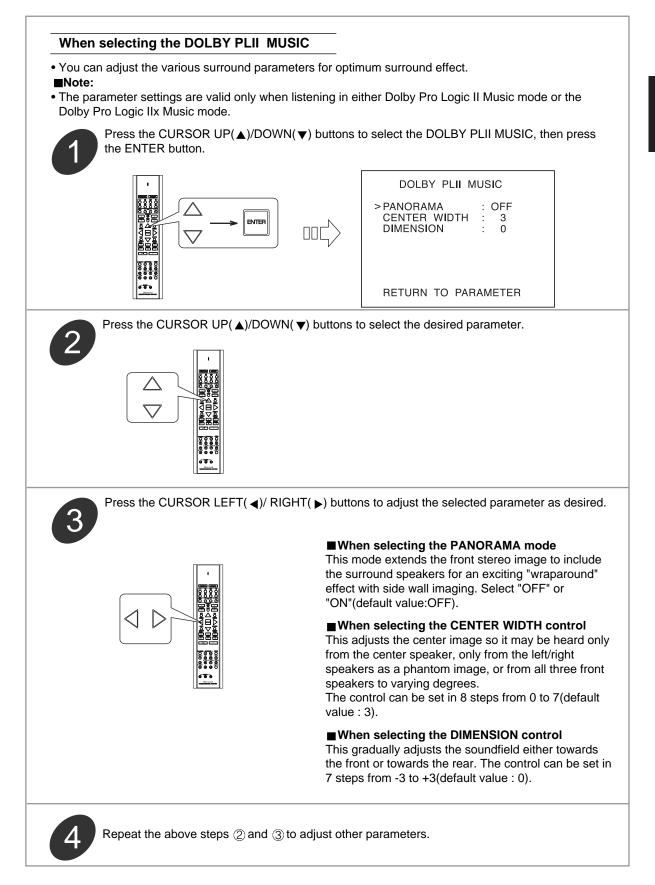


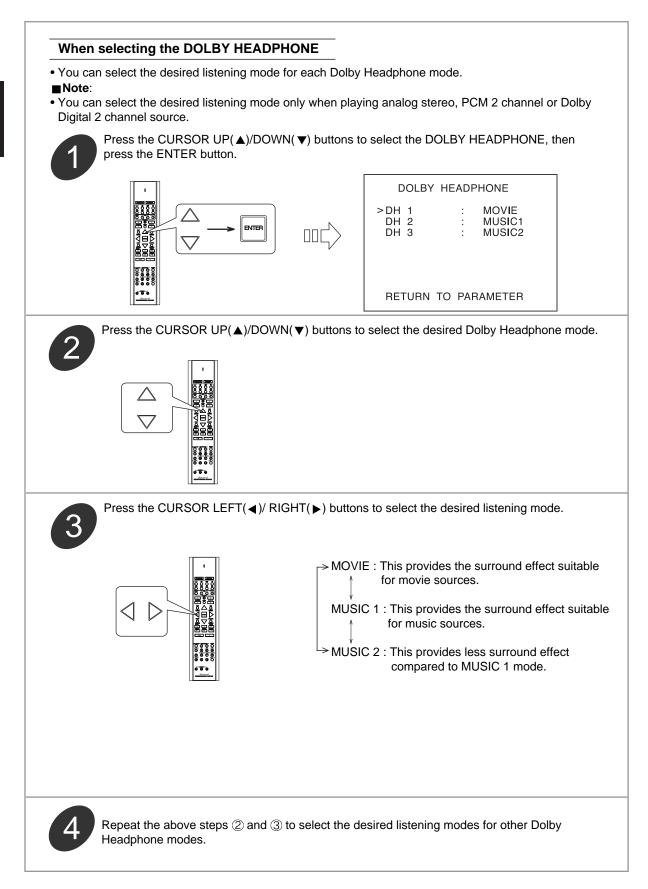


Press the CURSOR LEFT(\triangleleft)/RIGHT(\triangleright) buttons to adjust the dynamic range compression as desired.

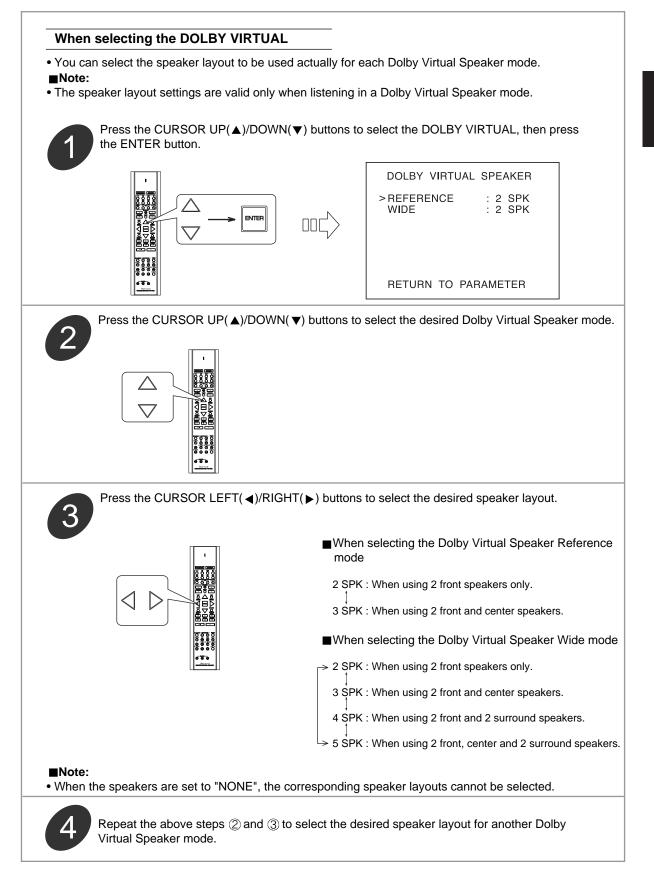






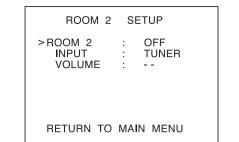


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SETTING THE ROOM 2 SETUP

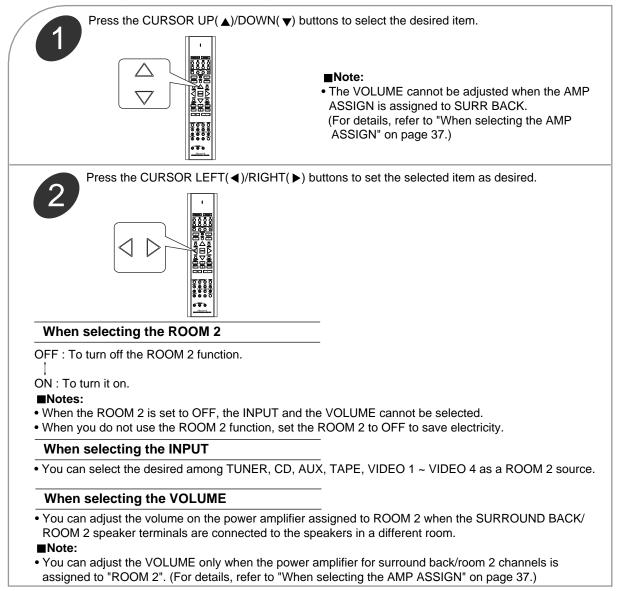
• The ROOM 2 function allows enjoying one source in the main room while playing another in a different room at the same time.



ROOM 2 : To turn on or off the ROOM 2 function.
INPUT : To select the desired ROOM 2 source.
VOLUME : To adjust the volume on the power amplifier assigned to ROOM 2.

■Notes:

- The analog signals from the EXTERNAL INs and the digital signals cannot be output to the different room, meaning no playback in a different room.
- You cannot play the ROOM 2 source in any surround mode.



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Troubleshooting Guide

If a fault occurs, run through the table below before taking your receiver for repair. If the fault persists, attempt to solve it by switching the receiver off and on again. If this fails to resolve the situation, consult your dealer. Under no circumstances should you attempt to repair the receiver yourself. This could void the warranty.

PROBLEM	POSSIBLE CAUSE	REMEDY
No power	 The AC input cord is disconnected. Poor connection at AC wall outlet or the outlet is dead or off. 	 Connect cord securely. Check the outlet using a lamp or another appliance.
No sound	 The speaker wires are disconnected. The master volume is adjusted too low. The MUTE button is pressed to ON. Incorrect selection of input source. Incorrect connections between the components. 	 Check the speaker connections. Adjust the master volume. Press the MUTE button to cancel the muting effect. Select the desired input source correctly. Make connections correctly.
No sound from the surround speakers	 Surround mode is switched off(stereo mode). Master volume and surround level are too low. Monaural source is used. Surround speaker setting is "NONE". 	 Select a surround mode. Adjust master volume and surround level. Select a stereo or surround source. Select the desired surround speaker setting.
No sound from the center speaker	 Dolby Virtual Speaker, stereo mode, etc is selected. Center speaker setting is "NONE". Master volume and center level are too low. 	 Select the desired surround mode. Select the desired center speaker setting. Adjust master volume and center level.
No sound from the surround back speakers	 The input signal format or the current surround mode cannot support the 7.1(or 6.1) surround. The power amplifier for the surround back/room 2 channels is assigned to the ROOM 2. Master volume and surround back level are too low. Surround back speaker setting is "NONE". 	 Under the proper situations, perform the 7.1(or 6.1) surround playback.(For details, refer to "ENJOYING SURROUND SOUND" on page 25.) Assign the power amplifier to the surround back channels.(For details, refer to "When selecting the AMP ASSIGN" on page 37.) Adjust master volume and surround back level. Select the desired surround back speaker setting.
Stations cannot be received	 No antenna is connected. The desired station frequency is not tuned in. Antenna is in wrong position. 	Connect an antenna.Tune in the desired station frequency.Move antenna and retry tuning.
Preset stations cannot be received	An incorrect station frequency has been memorized.The memorized stations are cleared.	Memorize the correct station frequency. Memorize the stations again.
Poor FM reception	 No antenna is connected. The antenna is not positioned for the best reception. 	Connect an antenna.Change the position of the antenna.
Continuous hissing noise during FM reception, especially when a stereo broadcast is received.	• Weak signals.	Change the position of the antenna.Install an outdoor FM antenna.
Continuous or intermittent hissing noise during AM reception, especially at night.	Noise is caused by motors, fluorescent lamps or lightning, etc.	Keep the receiver away from noise sources.Install an outdoor AM antenna.
Remote control unit does not operate.	Batteries are not loaded or exhausted.The remote sensor is obstructed.	Replace the batteries. Remove the obstacle.
Other Sherwood components do not react to remote control commands.	DIGI LINK connections are not made properly.	Make proper DIGI LINK connections.
OSD function is not available.	 Video connections between this unit and the monitor TV are not made correctly. 	Make proper video connections.

Specifications

 AMPLIFIER SECTION Power output, stereo mode, 6 Ω, THD 0.2 %, 40 Hz-20 kHz 2×100 W Total harmonic distortion, 6 Ω, 95 W, 1 kHz 0.05% Intermodulation distortion 60 Hz : 7 kHz= 4 : 1 SMPTE, 6 Ω, 95 W 0.1% Input sensitivity/impedance Line (CD, TAPE, VIDEO) 200 mV/47kΩ Signal to noise ratio, IHF "A" weighted Line (CD, TAPE, VIDEO) 95 dB Frequency response Line (CD, TAPE, VIDEO), 20 Hz~55 kHz +0, -3 dB Output level ROOM 2/TAPE OUT, 2.2 kΩ 200 mV Bass/Treble control, 100 Hz/10 kHz ±10 dB Surround mode, only channel driven Front power output, 6 Ω, 1 kHz, THD 0.7 % 110 W+110 W Center power output, 6 Ω, 1 kHz, THD 0.7 % 110 W+110 W Surround power output, 6 Ω, 1 kHz, THD 0.7 % 110 W+110 W
■DIGITAL AUDIO SECTION • Sampling frequency 32, 44.1, 48, 96 kHz • Digital input level Coaxial, 75 Ω 0.5 Vp-p Optical, 660 nm -15~-21 dBm
■VIDEO SECTION • Video format NTSC • Input sensitivity(=Output level), 75 Ω Video (Composite(normal)) 1 Vp-p S-Video (luminance signal) 1 Vp-p (chrominance signal) 0.286 Vp-p Component video (R-Y signal) 0.5 Vp-p (B-Y signal) 0.5 Vp-p (Y signal) 1.0 Vp-p
■FM TUNER SECTION • Tuning frequency range 87.5~108 MHz • Usable sensitivity, THD 3%, S/N 30 dB 12.8 dBf • 50 dB quieting sensitivity, mono/stereo 20.2 / 45.3 dBf • Signal to noise ratio, 65 dBf, mono/stereo 70 / 65 dB • Total harmonic distortion, 65 dBf, 1 kHz, mono/stereo 0.5 / 0.8 % • Frequency response, 30 Hz~15 kHz ±3 dB • Stereo separation, 1 kHz 32 dB • Capture ratio 4.0 dB • IF rejection ratio 60 dB
■AM TUNER SECTION • Tuning frequency range 520~1710 kHz • Usable sensitivity 500 µV/m • Signal to noise ratio 40 dB • Selectivity 25 dB
■GENERAL • Power supply 120 V ~ 60 Hz • Power consumption 3.7 A • Switched AC outlets TOTAL 120 W (1 A) max. • Dimensions (W × H × D, including protruding parts) 440 × 141 × 370 mm(17-3/8 × 5-1/2 × 14-1/2 inches) • Weight (Net) 10.1 kg (22.3 lbs)
Note: Design and specifications are subject to change without notice for improvements.

Setup Code Table_____

TV

400	005	000					Oshistar	005	005	000	044		
AOC	005	003					Goldstar	005	025	003	011		
Admiral	041	031					Gradiente	009	011				
Aiko	014						Grunpy Hallmark	027	026				
Akai	005							025					
Alaron	026						Harley Davidson	026					
Ambassador	024						Harman/Kardon	010					
America Action	027 043						Havard Hitachi	027 016	011	018			
Ampro Anam	043	047	048	049			Infinity	010	011	016			
Audiovox	027	047	048	049			· ·	010					
Baysonic	030	027	014	034			Inteq JBL	002					
Belcor	027						JCB	050					
Bell & Howell	003	001					JVC	009	046				
Bradford	013	001					KEC	000	040				
Brockwood	003						KTV	027	005	006			
Broksonic	028	031					Kenwood	005	003	000			
CXC	027	001					LG	011	003				
Candle	005	011					LXI	007	010	019	020	025	
Carnivale	005	011					Logik	001	010	010	020	020	
Carver	010						Luxman	011					
Celebrity	050						MGA	017	005	025	003		
Cineral	030	014					MTC	012	005	003	011		
Citizen	012	005	011	006	014		Magnavox	010	005	026	0		
Concerto	011		• • •		••••		Magestic	001					
Contec	027						Marantz	010	005				
Craig	027						Matsushita	042					
Crosley	010						Magatron	025	016				
Crown	027	006					Memorex	019	042	031	017	025	011
Curtis Mathes	007	010	019	800	030	041		001					
	012	005	016	011	001	006	Midland	007	002	008	006	015	
	022	032	038	040			Minutz	004					
Daewoo	030	003	006	014	034	035	Mitsubishi	041	017	025	003		
Daytron	003						Motorola	041					
Denon	016						Multitech	027					
Dumont	002	003					NAD	020	025	022			
Dwin	044	036					NEC	005	003	011			
Electroband	050						NTC	014					
Emerson	019	028	031	027	029	025	Nikko	005	025	014			
	003	026	006	024	034	035	Onwa	027					
Envision	005						Optimus	019	042	022			
Fisher	019						Optonica	041	021				
Fujitsu	026						Orion	028	031	026			
Funai	027	026	023				Panasonic	008	042				
Futuretech	027						Penney	007	020	800	012	005	025
GE	007	008	030	041	029	025		004	003	011	006	015	040
	004	015	038	040			Pilco	010	031	005	016	003	
Gibralter	002	005	003				Philips	010					

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Pilot 005	003	006				Vidtech	025	003				
Pioneer 022						Wards	010	021	005	025	004	003
Portland 003	006	014					026	011	001			
Prism 008	5					White Westinghouse	031	034	035			
Proscan 007						Yamaha	005	003				
Proton 025	032					Zenith	002	031	001	014		
Pulsar 002	003											
Quasar 008	042	021					1					
RCA 007	008	041	003	013	015	VCR						
037	038	039	040				1					
Radio Shack 007	019	021	027	005	025	Admiral	027	021				
003	011	006				Adventura	000					
Realistic 019	021	027	005	025	003	Aiko	025					
011	006					Aiwa	005	000				
Runco 002	005	033				Akai	026					
SSS 027	003					America Action	025					
Sampo 005	006					America High	004					
Samsung 012	005	025	003	011	045	Asha	023					
Samsux 006	i					Audiovox	005					
Sansei 030)					Beaumark	023					
Sansui 031						Bell & Howell	017					
Sanyo 019)					Brocksonic	021					
Scimitsu 003						Broksonic	020	018	021	001		
Scotch 025						CCE	015	025				
Scott 028	027	025	003	026		Calix	005					
Sears 007	010	019	020	025	026	Canon	004					
011	006					Carver	081					
Semivox 027	,					Cineral	025					
Semp 020)					Citizen	005	025				
Sharp 041	021	006				Colt	015					
Sherwood 000)					Craig	005	012	023	015	024	
Shogun 003	6					Curtis Mathes	013	004	026	028		
Signature 001						Cybernex	023					
Sony 050						Daewoo	010	025				
Soundesign 027	025	026				Denon	800					
Squareview 023						Dynatech	000					
Starlite 027						Electrohome	005					
Supreme 050						Electrophonic	005					
Sylvania 010						Emerex	002					
Symphonic 023						Emerson	005	020	000	018	009	021
TMK 025		024					001	025				
Tandy 041						Fisher	012	017				
Technics 008						Fuji	004	003				
Technoi Ace 026						Funai	000					
Techwood 008						GE	013	004	027	023		
Teknika 010		017	012	003	026	Garrard	000					
011		006	014			Go Video	052	_				
Telefunken 011						GoldStar	005	006				
Toshiba 019		012				Gradiente	000					
Totevision 006						HI-Q	012					
Vector Research 005						Harley Davidson	000	_				
Victor 009						Harman/Kardon	016	006				
Vidikron 010						Harwood	015					

Headquarter	011						Realistic	004	005	027	012	000	017
Hitachi	000	008	026					011					
Hughes Net.Sys	008						Runco	007					
JVC	014	026					STS	800					
Jensen	026						Samsung	023	010	033			
KEC	005	025					Sanky	027	007				
KLH	015						Sansui	000	014	021	026	024	
Kenwood	014	026	006				Sanyo	012	023	017	011		
Kodak	004	005					Scott	020	010	018	009		
LXI	005						Sears	004	005	012	000	800	017
Lloyd's	000							011					
Logik	015						Semp	010					
MEI	004						Sharp	027					
MGA	023	009					Shintom	015					
MGN Technology	023						Shogun	023					
MTC	023	000					Singer	015					
Magnasonic	025						Sony	004	002	000	003		
Magnavox	004	007	016	000	019		Syvania	004	016	000	009		
Magnin	023						Symphonic	000					
Marantz	004	016					ТМК	023					
Marta	005	0.0					Tatung	026					
Matsushita	004	028	029				Teac	000	026				
Memorex	004	005	027	007	012	023	Technics	004	028				
Memorex	000	017	021	011	031	032	Teknika	004	005	000			
Minolta	008	017	021	011	001	002	Thomas	000	000	000			
Mitsubishi	000	014	009				Toshiba	010	009				
Motorola	027	014	009				Totevision	005	009				
Multitech	000	027					Unitech	003	025				
NEC	000	013	026	006			Vector	023					
Nikko	005	014	020	000			Vector Research	006					
Noblex	003						Video Concepts	000					
							Videosonic	010					
Olympus	004	007	047	000	000	000		023	004	007	040	040	000
Opimus	005	027	017	028	029	030	Wards		004	027	012	016	023
0.1	031	032	004					000	008	015	019		
Orion	020	021	001	000	004		White WestingHouse	021	025	045			
Panasonic	004	028	022	029	031		XR-100	004	000	015			
Penny	004	005	023	008	006		Yamaha	006					
Pentax	008						Zenith		000		003		
Philco	004	021					Ameira High		(TV us	e 008)			
Philips	004	016					Brocksonic	001					
Pilot	005						Colt	015	. <u> </u>				
Pioneer	014						Cutis Mathes		(TV us	e 008)			
Profitronic	023						Daewoo	025					
Proscan	013						Emerson	001					
Protec	015						Funai	000					
Pulsar	007						GE			,		(TV us	e 012)
Quarter	011								(TV us	,			
Quartz	011						Hitachi	004	(TV us	e 008)	000		
Quasar	004	028	029	031			HQ	000					
RCA	013	004	027	023	008	019	Lloyds	000					
Radio Shack	000						MGA	023					
Radix	005						Megavox	016	(TV us	e 010)	004	(TV us	e 008)
Randex	005							000					

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Magnin	023	CBL	
Memorex	005 028 (TV use 025)	_	I
Mitsubishi	027 (TV use 041)		
Orion	001	ABC	002 003
Panasonic	004 (TV use 008) 028 (TV use 042)		007 006
Penney	004 (TV use 008) 023	Allegro	018 021
	028 (TV use 042)	Archer	018 026
Quasar	004 (TV use 008) 028 (TV use 042)	Bell&Howell	009
RCA	013 (TV use 012) 004 (TV use 008)	Century	018
	027 (TV use 041)	Citizen	018 021
Sansui	000	Comtronics	014
Sanyo	023	Contec	011
Sear	000 005	Easten	001
Sharp	027 (TV use 041)	Emerson	026
Sony	002 (TV use 000)	Everquest	010 014
Symphonic	000	Focus	022
Zenith	000	Garrard	018
		Gemini	010
]	General Instrument	033 276
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		Goodmind	026
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JVC	008	Hitachi	006
Kenwood	005	Hytex	007
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Mitsubishi	016	Jerrold	002 007
Onkyo	011		006 034
Panasonic	013	Memolex	000
Philips	011 006	Movie Time	015
Pioneer	003 014 026	NSC	015
Proscan	002	Oak	011
RCA	002	Optimus	031
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	020 021 022 023 025	Philips	018
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Zonian		Recoton	022
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		Degai	012 020

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009 030

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033 032 009 010

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Regency Rembrandt

Runco

Signal

SL Marx

Smasung

Signature

Sprucer

Starcom

Scientific Atlanta

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Tusa	010		
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Next Level	006			
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Primestar	016	015		
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Radio Shack	018			
Realistic	014			
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Star Choice	018			
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Zenith	013			

AUX-TAPE/MD

Sherwood

000 (for tape deck) 035 (for MD recorder)

AUX-LD

Denon Mitsubishi	007 007	
NAD	007	
Pioneer	007	
Sony	017	018

AUX-TAPE

Aiwa	004	034	
Carver	004		
Harman/Kardon	016	004	
JVC	022	024	
Kenwood	800		
Megavox	004		
Marantz	004		
Onkyo	012	025	
Opimus	002	020	
Panasonic	038		
Pioneer	002	020	011
Sansui	004		
Sony	021	014	026
Technics	038		
Victor	024		
Wards	002		
Yamaha	010	009	

AUX-AMP

Awia	029	
Carver	023	
Curtis Mathes	027	
Denon	037	
Harman/Kardon	040	
Linn	023	
Megavox	023	
Marantz	023	
Panasonic	039	
Philips	023	040
Pioneer	003	027
Sony	019	033
Technics	039	
Wards	003	
Yamaha	028	

GE	043
Lutron	044
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Radio Shack	043
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X10	042

AUX-DBS

Awia	045	059	029
Fisher	005		
Harman/Kardon	046		
JBL	046		
JVC	047		
Jerrold	031		
RCA	006		
Scientific Artlanta	032		
Sony	045		
Starcom	031		

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Archer	013
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CD]		
Awia	010	030	
Burmester	019		
California Audio Lab	002		
Carver	010	012	020
DKK	001		
Denon	028	034	
Emerson	035		
Fisher	012	033	
Garrard	019	018	
Genexxa	004	035	
Harman/Kardon	010	011	
Hitachi	004		
JVC	007		

Kenwood	003	029	016	024	025	
Krell	010					
LXI	035					
Linn	010					
MCS	002					
MTC	019					
Megavox	010	035				
Marantz	002	010	013			
Mission	010					
NSM	010					
Nikko	033					
Onkyo	008	026				
Opimus	001	004	012	035	029	
	019	009	021	020		
Panasonic	002	031				
Parasound	019					
Philips	010	023				
Pioneer	004	035	021	017		
Proton	010					
QED	010					
Quasar	002					
RCA	012	035	006	036		
Realistic	012	019	013			
Rotel	010	019				
SAE	010					
Sansui	010	035				
Sanyo	012					
Scott	035					
Sears	035					
Sharp	029	013	037			
Sherwood	013	027	038	039	040	041
	000					
Sony	001	014	022			
Soundesign	009					
Tascam	019					
Теас	019	018	033	013		
Technics	002	031				
Victor	007					
Wards	010	006				
Yamaha	005	015				
Yorx	032					

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