R-871 Audio/Video Receiver



5707-00000-031-0S



OPERATING INSTRUCTIONS

R-871 Audio/Video Receiver

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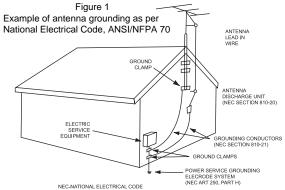
SAFETY INSTRUCTIONS

- 1. **Read Instructions** All the safety and operating instructions should be read before the product is operated.
- 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.
- 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.
- 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 uncurrent surfaces.
- force, and uneven surfaces may cause the product and cart combination to overturn.10. Ventilation Slots and openings in the
- cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and

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

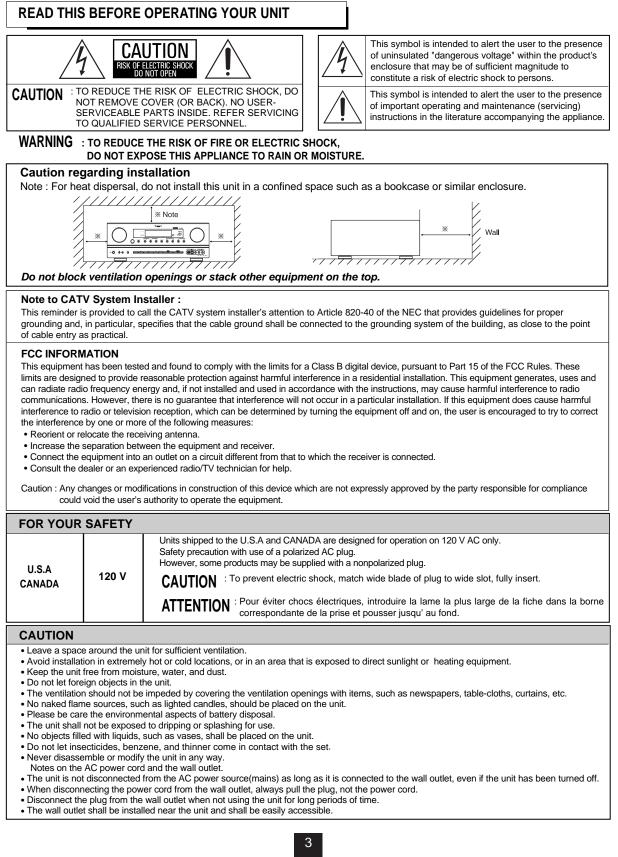
- 11. Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12. Grounding or Polarization This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to 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. It 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.
- 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.
- Servicing Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 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,
 - c) If the product has been exposed to rain or water,
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - e) If the product has been dropped or damaged in any way, and
 f) When the product exhibits a distinct change in performance this indicates a need for service.
- 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.
- 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





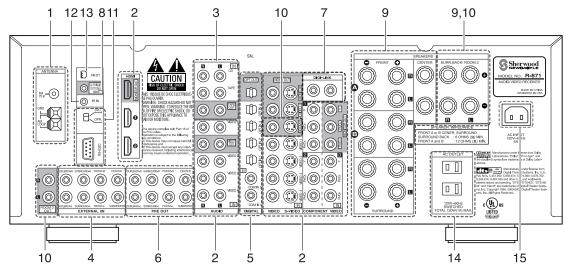
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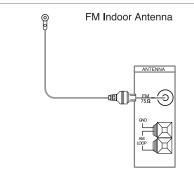


System Connections

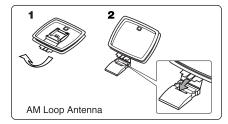
- Please be certain that this unit is unplugged from the AC outlet before making any connections.
- Since different components often have different terminal names, carefully read the operating instructions of the component connected.
- Be sure to observe the color coding when connecting audio, video 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



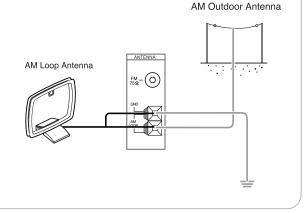
• Change the position of the FM indoor antenna until you get the best reception of your favorite FM stations.



- Place the AM loop antenna as far as possible from the receiver, TV set, speaker cords and the AC input cord and set it to a direction for the best reception.
- If the reception is poor with the AM loop antenna, an AM outdoor antenna can be used in place of the AM loop antenna.

FM Outdoor Antenna

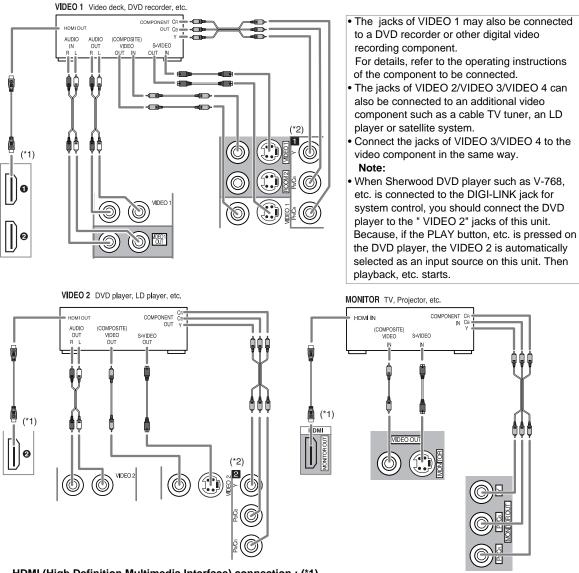
• A 75 outdoor FM antenna may be used to further improve the reception. Disconnect the indoor antenna before replacing it with the outdoor one.





Outdoor Antenna

2. CONNECTING VIDEO COMPONENTS



HDMI (High Definition Multimedia Interface) connection : (*1)

- You can connect the source component (DVD player, etc.) to the display component (TV, projector, etc.) through this receiver with using a commercially available HDMI cord.
- The HDMI connection can carry uncompressed digital video signals and digital audio signals.
- This receiver can output digital video and digital audio signals from the MONITOR HDMI OUT of this receiver without passing through any circuits as they were input into the HDMI IN.
- If you connect the HDMI INs to your video components, it is easier to do so following the default settings.
- If your HDMI connection is different from the default setting, you should assign the HDMI INs you used with the "When selecting the VIDEO ASSIGN 1" procedure on page 52.
- The default settings are as follows :
- HDMI 1 : VIDEO 1, HDMI 2 : VIDEO 2
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI licensing LLC.

Note :

• Depending on the connected component, unreliable signal transfer may happen. (For details, refer to the operating instructions of your component.)

Component video input default settings: (*2)

- If you connect the COMPONENT VIDEO INs to your video components, it is easier to do so following the default settings.
 If your component video connections are different from the default setting, you should assign the COMPONENT VIDEO
- INs you used with the "When selecting the VIDEO ASSIGN 2" procedure on page 53.
- The default settings are as follows:
- COMPONENT IN 1 : VIDEO 1, COMPONENT IN 2 : VIDEO 2, COMPONENT IN 3 : VIDEO 3.



Continued

- 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, reffering to the following table. (For details, refer to "When selecting the VIDEO MODE" on page 53.)

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	×	×		
			S-Video*2	S-Video	S-Video	S-Video		
			Composite*2	Composite video	Composite video	Composite video		
		×	Auto	Component	S-Video	S-Video		
	×		Auto	Component	Composite video	Composite video		
	×	×	Auto	Component*4	×	×		
×			Auto	S-Video	S-Video	Composite video*3		
×		×	Auto	S-Video	S-Video	S-Video		
×	×		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 jack.

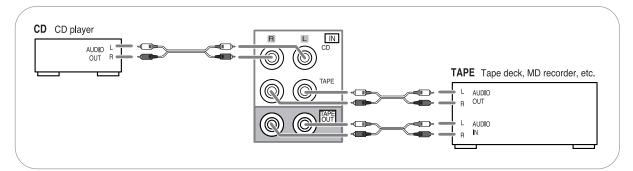
*4 : If the OSD menu operation is performed, the picture is automatically turned off and only the OSD menu is displayed via MONITOR COMPONENT OUT jacks.

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

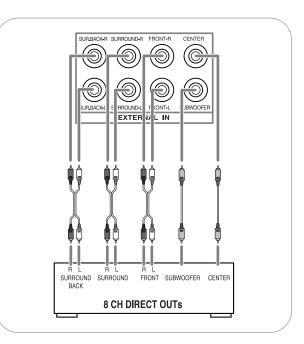
• The TAPE IN/OUT jacks can be connected to audio recording equipment such as a tape deck, an MD recorder, etc.





4. CONNECTING EXTERNAL INS

- Use these jacks to connect the corresponding outputs of a DVD player or external decorder, 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 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 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. Note:
- Be sure to make either a OPTICAL or a COAXIAL DIGITAL connection on each component. (You don't need to do both.)

Digital input default settings

- If you connect the DIGITAL INs to your components, it is easier to do so following the default settings.
- If your DIGITAL connections are different from default settings, you should assign the DIGITAL INs you used with the "When selecting the DIGITAL AUDIO" procedure on page 52.
- The default settings are as follows : OPTICAL IN 1 : VIDEO 1, OPTICAL IN 2 : VIDEO 2, OPTICAL IN 3 : VIDEO 3, OPTICAL IN 4 : VIDEO 4, (Front) OPTICAL IN 5 : VIDEO 5, COAXIAL IN 1 : CD, COAXIAL IN 2 : AUX.



Component such as an MD recorder, CD recorder		
with OPTICAL DIGITAL IN Component with OPTICAL DIGITAL OUT	1	
Component with OPTICAL DIGITAL OUT	j	
Component with OPTICAL DIGITAL OUT]	
Component with OPTICAL DIGITAL OUT		
Component with COAXIAL DIGITAL OUT		COAXIN 2
Component with COAXIAL DIGITAL OUT		

6. CONNECTING PRE OUTS

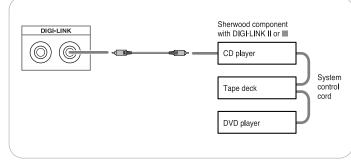
- · Use these jacks when adding additional power amplifiers.
- Connect the PRE OUT jacks to the powered speakers or the power amplifiers connected to speakers respectively.
- When using only one surround back speaker, connect the SURROUND BACK LEFT jack to the power amplifier.
- · To emphasize the deep bass sounds, connect a powered subwoofer.

Notes :

- · After installing the speakers, first adjust the speaker settings according to your environment and speaker layout (For details, "SETTING THE SPEAKER/ROOM EQ SETUP" on page 55.)
- According to speaker settings, some channels of PRE OUTs cannot output audio signals.

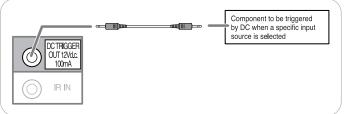
7. CONNECTING SYSTEM CONTROL

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



8. CONNECTING DC TRIGGER OUT

- Connect a component to DC TRIGGER OUT jack that allows DC 12V 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 54.



Note:

- This output voltage (12V 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.

R.BACK-R SURROUND-R FRONT-R

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Power amplifier

CENTER

FRONT

SURROUND R

SURROUND BACK

 \bigcirc

CENTER

powered subwoofer

Center speaker

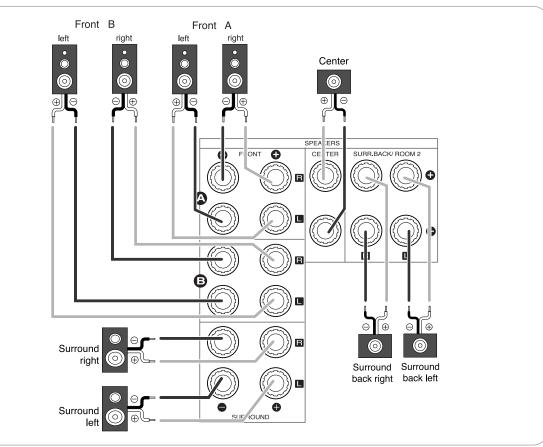
Front speakers

Surround speakers

Surround back speakers

9. 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 11.
- 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 55.)

Front speakers A and B

- This unit allows you to connect two different sets of front speakers and to select either FRONT A or/and B speakers according to your taste.
- However, if you have only a set of front speakers, connect them to either FRONT A or B speaker terminals.

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 12 and "When selecting the AMP ASSIGN" on page 49.)

Caution :

- For safe amplifier operation, in case of using either front A or front B speakers, use all the speakers with impedance of over 6 ohms. However, in case of using both front A and front B speakers, use only these speakers with impedance of over 12 ohms and other speakers with impedance of over 6 ohms.
- 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.

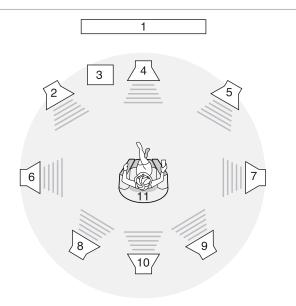
Subwoofer

 The subwoofer reproduces powerful deep bass sounds.

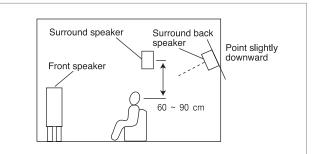
Place a subwoofer anywhere in the front as desired.

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.



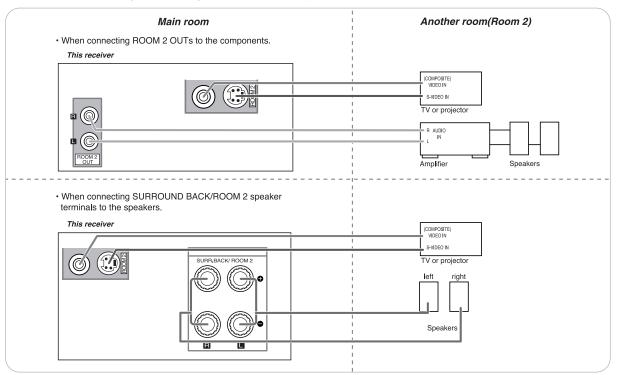
- 1. TV or Screen
- 2. Front left speaker
- 7. Surround right speaker 8. Surround back left speaker
- 3. Subwoofer
- 9. Surround back right speaker
- 4. Center speaker 10. Surround center speaker 11. Listening position
- 5. Front right speaker
- 6. Surround left speaker





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

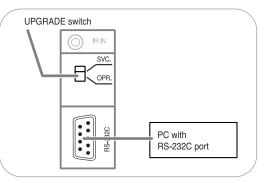


11. CONNECTING PC FOR UPGRADES

- 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 wil 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.



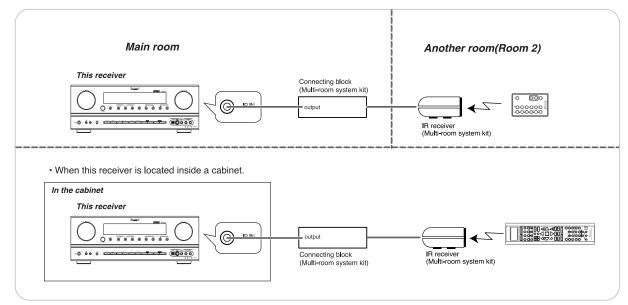
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12. CONNECTING MULTI-ROOM SYSTEM KIT

- 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.

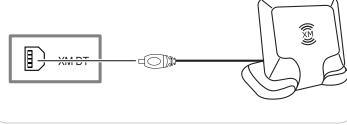
Note:

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



13. CONNECTING XM DT (only for North America)

- · Connect the XM DT terminal to the XM Connect-and-Play antenna (sold separately).
- Position the XM Connect-and-Play antenna near a south-facing window to receive the best signal. When making connections, also refer to the operating instructions of the XM Connect-and-Play antenna.
- For the best reception, check the signal strength of the XM radio signal with using



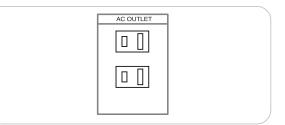
signal strength display mode, then adjust the position of the XM antenna until "SIGNAL : GOOD" is displayed. (For details, refer to "Displaying XM information" on page 42.)

• To listen to XM Satellite Radio, refer to "XM Satellite Radio (only for North America)" on page 40.



14. 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 (1A)).
 - Standby mode Switched AC outlet off Power - on mode - Switched AC outet on



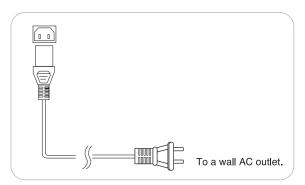
15. AC INPUT

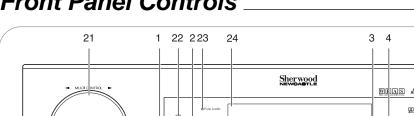
• Plug the supplied AC input cord into this AC inlet and then into the wall AC outlet.

Note:

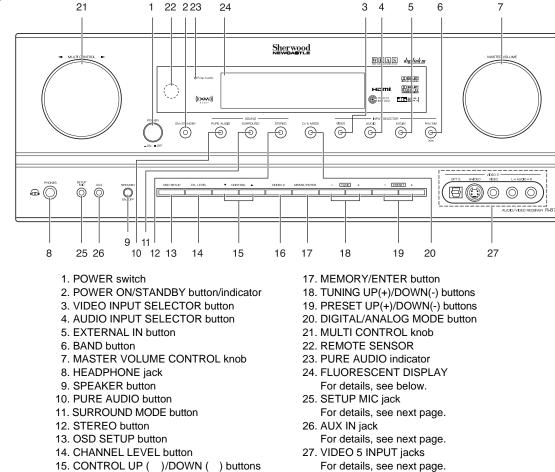
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• Do not use an AC input cord other than the one supplied with this unit. The AC input cord supplied is designed for use with this unit and should not be used with any other device.



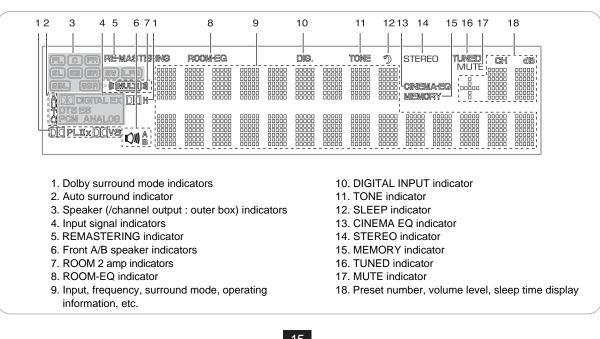


Front Panel Controls



- 15. CONTROL UP ()/DOWN () buttons
- 16. ROOM 2 button

FLUORESCENT DISPLAY



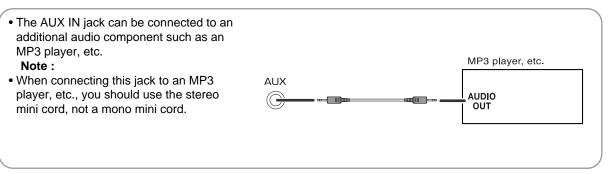


SETUP MIC JACK

- 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 55.)
 Notes:
- 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.

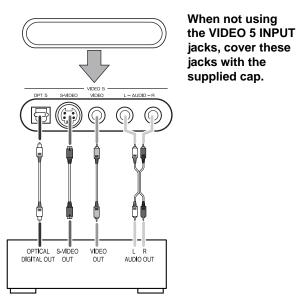


AUX IN JACK



VIDEO 5 INPUT JACKS

- The VIDEO 5 input jacks may be also connected to an additional video component such as a camcorder, a video game player, etc.
- If the OPTICAL IN 5 is connected to the component connected to VIDEO 5, it is easier to do so following the default settings. (For details, refer to "Digital input default settings" on page 8.)
- If the OPTICAL IN 5 connection is different from the default settings, you should assign the DIGITAL INs you used with the "When selecting the DIGITAL AUDIO" procedure on page 52.
- If you connect the COMPONENT VIDEO INs on the rear panel to your video component, you should assign the COMPONENT VIDEO INs you used with the "When selecting the VIDEO ASSIGN" procedure on page 52.



VIDEO 5 Camcorder, video game player, etc.



Universal Remote Controls

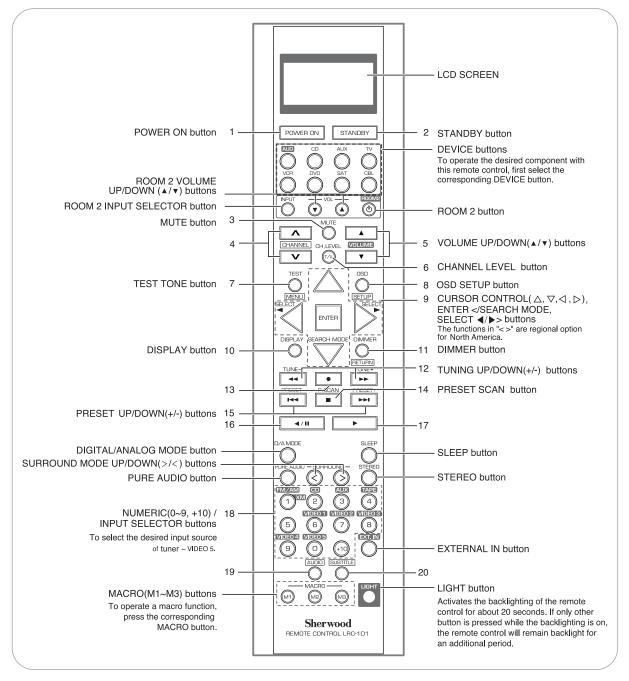
This universal remote control can operate not only this receiver but also most popular brands of audio and video components such as CD players, tape decks, TVs, cable boxes, VCRs, satellite receivers, DVD players, etc.

• 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 20.)

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 next page.





FUNCTION TABLE of the NUMBERED BUTTONS.

\square	Device to be	CD	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		_	—	MUTE	MUTE	—	MUTE	MUTE
4	CHANNEL	_	_	CHANNEL UP/DOWN(∧/∨)	CHANNEL UP/DOWN(∧/∨)	_	CHANNEL UP/DOWN(∧/∨)	CHANNEL UP/DOWN(∧/ ∨)
5	VOLUME	_	_	VOLUME UP/DOWN(▲ / ▼)	VOLUME UP/DOWN(▲ / ▼)	_	VOLUME UP/DOWN(▲ / ▼)	VOLUME UP/DOWN(▲ / ▼)
6	CH.LEVEL	_	_	INPUT SELECTOR	INPUT SELECTOR	_	INPUT SELECTOR	INPUT SELECTOR
7		_	_	_	_	MENU	_	_
8	OSD O SETUP	_	_	_	_	SETUP	_	_
9			_	_	_	CURSOR CONTROL ENTER	_	_
10			_			DISPLAY		_
11			_	_	_	RETURN	_	_
12	TUNE- TUNE+	REVERSE SEARCH(◄◄) / FORWARD SEARCH(►►)	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	VIDEO 5 VIDEO 4 (0) ~ (9), (+10)	NUMERIC	_	NUMERIC	NUMERIC	NUMERIC	NUMERIC	NUMERIC
19			_			AUDIO		_
20						SUBTITLE		_

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.



OPERATING COMPONENTS WITH REMOTE CONTROL

Enter the setup code for each component other than this receiver. For detalis, refer to "Entering a setup code" on page 20.

2

code" on page 20. Turn on the component you want to operate.

3

Select the DEVICE button on the remote control corresponding to the component you wish to operate.

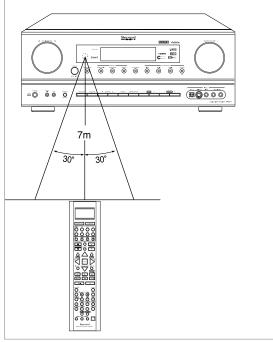
Aim the remote control at the REMOTE SENSOR of the component you wish to control and press the button corresponding to the operation you want.

 When operating a Sherwood CD player or tape deck using digi link system remote control, aim the remote control at the REMOTE SENSOR of this receiver.

However, to operate a Sherwood DVD player, aim at the REMOTE SENSOR of the corresponding component.

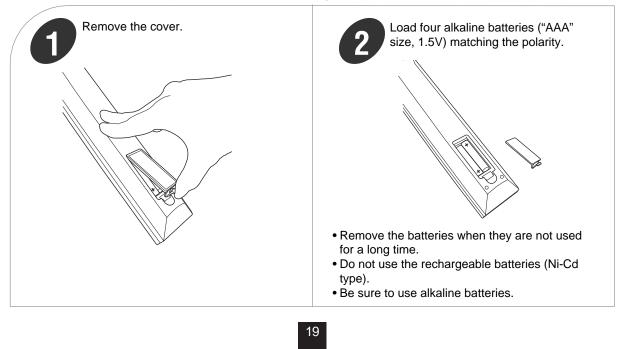
• Use the remote control within a range of about 7 meters (23 feet) and angles of up to 30 degrees aiming at the remote sensor.

REMOTE CONTROL OPERATION RANGE



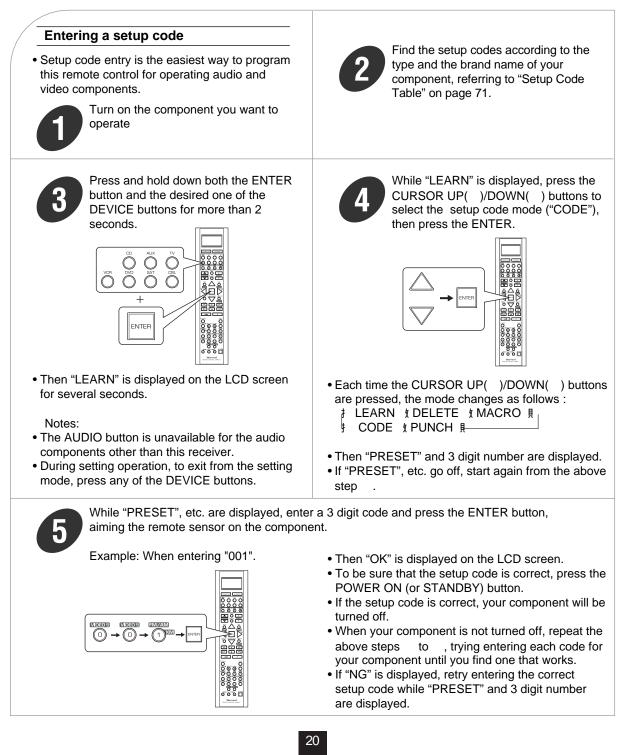
LOADING BATTERIES

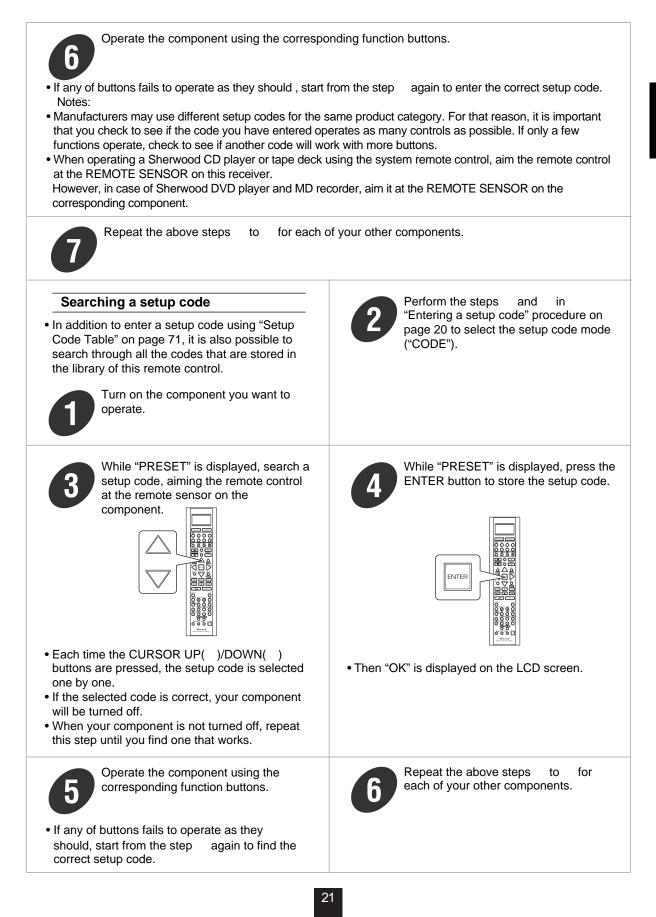
- When the remote control does not operate, the old batteries should be replaced. In this case, load new batteries within several minutes after removing old batteries.
- If the betteries are removed or have been exhausted for a longer period of time, memorized contents will be cleared. Should this happen,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



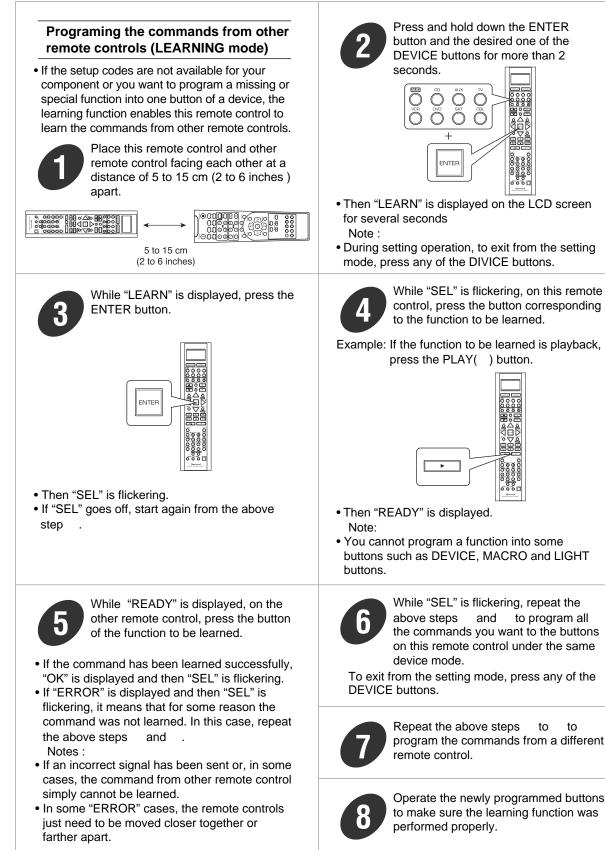
USING FUNCTIONS OF REMOTE CONTROL

- 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, "AUX" for Sherwood tape deck and "TV" for Sherwood TV 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.









Example: If the function to be learned is playback,

buttons such as DEVICE, MACRO and LIGHT

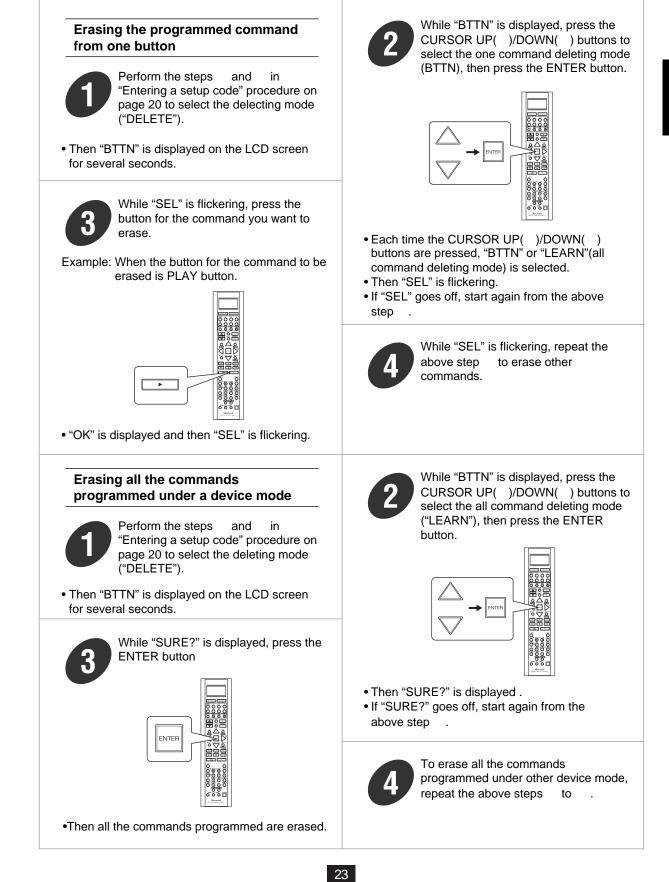
While "SEL" is flickering, repeat the to program all the commands you want to the buttons on this remote control under the same

To exit from the setting mode, press any of the

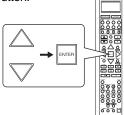
to program the commands from a different



Operate the newly programmed buttons to make sure the learning function was



Programming a macro function	While "M1" is displayed, press the			
The macro function enables you to program a series of button operations(up to 15) on this emote control into a single button. You can store up to three separate macro command sequences into "M1", "M2" and "M3" puttons.	CURSOR UP()/DOWN() buttons to select the MACRO button to be programmed into, then press the ENTER button.			
Perform the steps and in "Entering a setup code" procedure on page 20 to select the macro mode ("MACRO").				
Then "M1" is displayed on the LCD screen for several seconds. During macro setting operation, pressing any of the DEVICE buttons cannot exit from the macro mode.	 Each time the CURSOR UP()/DOWN() button: are pressed, "M1", "M2" or "M3" is selected. Then "SEL" is flickering. If "SEL" goes off, start again from the above step . 			
While "SEL" is flickering, press the operation buttons you want to program in order.	Press any of the MACRO buttons (M1~M3) to complete the programming.			
 xample: When playing a DVD on the DVD player connected to VIDEO 2 jacks of this receiver. Press "AUDIO" button to control this receiver. Press "POWER ON" button to turn this receiver on. Press "VIDEO 2(7)" button to select the desired insute sequence 				
desired input source. Press "DVD" button to control the DVD player.	 Then "OK" is displayed. 			
Press "POWER ON" button to turn the DVD player on. Press "PLAY ()" button to start playback.	 To erase a macro program When erasing a macro program, perform the above steps , and , but ignore the step . 			
$\rightarrow \text{POWER ON} \rightarrow \bigcirc $	To change a macro program • When a new macro program is stored into a			
Each time the operation buttons are pressed, the programmed order is displayed.	MACRO button with performing the above steps to , the previous macro program is erased from the memory of the MACRO button.			
Operating a macro function	Natas			
Aim the remote control at the REMOTE SENSORs of the components to be controlled and press the MACRO button you want. Example: When pressing "M1" button.	Notes: • 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			



- OR UP()/DOWN() buttons 12" or "M3" is selected.
- ng.
- rt again from the above



- E
- 1.
- 2.
- 3.
- 4.
- 5.
- 6



o function cannot control the rresponding components correctly.

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



Programming a punch-through function

- The punch-through function allows the volume controls, channel controls or transport controls to link to a different device while a device is controlled with this remote control as a master device.
- For example, since this receiver will likely be used as the sound system while watching TV, you may want to use volume controls to operate this receiver although this remote control is set to control the TV.

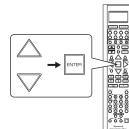


Perform the steps and in "Entering a setup code" procedure on page 20 to select a master device and the punch -through mode ("PUNCH").

• Then "VOL" is displayed on the LCD screen for several seconds.



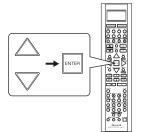
While the device is displayed, press the CURSOR UP()/DOWN() buttons to select the desired punch-through device, then press the ENTER button.



- Each time the CURSOR UP()/DOWN() buttons are pressed, depending on the selected punch-through mode, punch-through devices and the one punch-through deleting mode ("DELETE") are selected as follows :
- In case of the volume punch-through, AUDIO & DELETE & TV
- In case of the transport punch-through, CD 1 DELETE 1 DVD 1 VCR 1 AUX
- · In case of the channel punch-through, TV & DELETE & SAT & CABLE & VCR
- Then "OK" is displayed and the current punchthrough mode is displayed.



While "VOL" is displayed, press the CURSOR UP()/DOWN() buttons to select the desired punch-through mode , then press the ENTER button.



- Each time the CURSOR UP()/DOWN() buttons are pressed, the mode changes as follows:
 - VOL : The volume punch -through mode allows the "VOLUME / " and "MUTE" buttons to operate a different
 - device.
 - DELETE : All punch-through deleting mode. ĥ
 - PLAY : The transport punch-through mode allows the "", "", "", "", "", " "", "/" and "" buttons to
 - operate a different device.
 - CH : The channel punch-through mode allows the "CHANNEL / " and "CH. LEVEL" buttons to operate a different device.
- . Then the device to which you can link the selected punch-through mode is displayed.



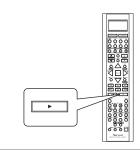
While the punch-through mode is displayed, repeat the above steps and to program other punch-through function under the same master device mode.



To program punch-through functions under other master device mode, repeat the above steps to

Operating a punch-through function

 While this remote control is set to control a master device, aim the remote control at the REMOTE SENSOR of the punch-through device and press the desired button of the programmed punch-through controls.
 Example: When pressing "PLAY ()" button.



Erasing the programmed puch-through function

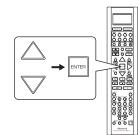


Perform the steps and in "Entering a setup code" procedure on page 20 to select a master device and the punch-through mode ("PUNCH").

• Then "VOL" is displayed on the LCD screen for several seconds.



While the device is displayed, press the CURSOR UP()/DOWN() buttons to select the one punchthrough deleting mode("DELETE"), then press the ENTER button.

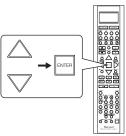


- Each time the CURSOR UP()/DOWN() buttons are pressed, depending on the selected punch-through mode, the punchthrough devices and the deleting mode ("DELETE") are selected.
- Then "OK" is displayed and the current punchthrough mode is displayed .

• Then the punch-through device is displayed on the LCD screen.



While "VOL" is displayed, press the CURSOR UP()/DOWN() buttons to select the punch-through mode to be erased, then press the ENTER button.



• Each time the CURSOR UP()/DOWN() buttons are pressed, the mode changes as follows:

VOL % DELETE % PLAY % CH

• Then the device is displayed .

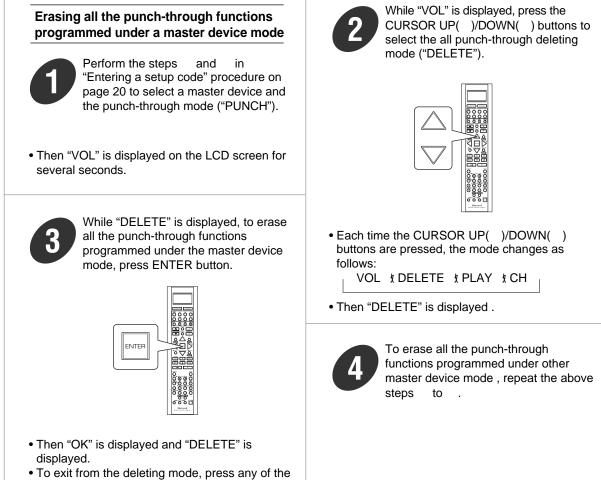


While the punch-through mode is displayed, repeat the above steps and to erase other punch-through function under the same master device mode.



To erase punch-through functions under other master device mode, repeat the above steps to .





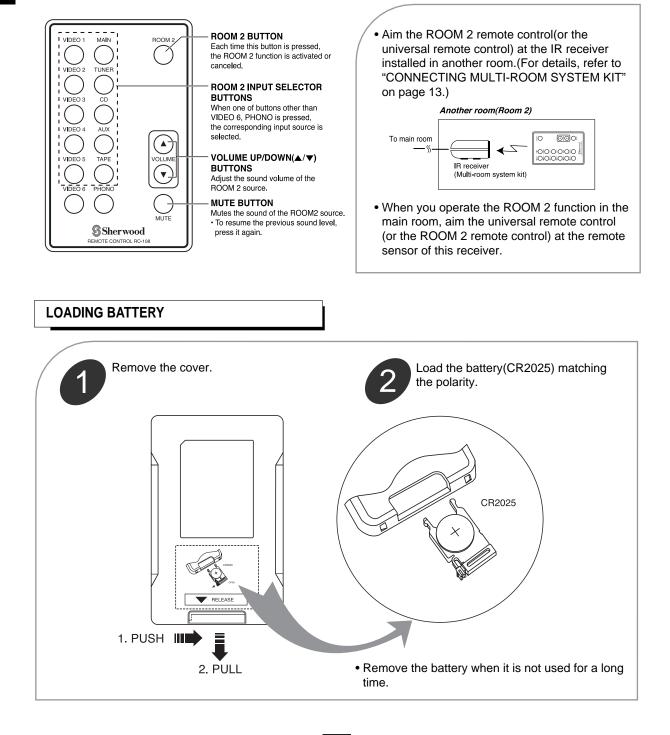


ROOM 2 Remote Controls

This remote control unit is an additional remote control unit for the ROOM 2 source playback only.

- You can use the ROOM 2 functions with this remote control unit more conveniently in another room than with the universal remote control unit.
- For details on ROOM 2 operation, refer to "ROOM 2 SOURCE PLAYBACK" on page 46.

REMOTE CONTROL OPERATION RANGE



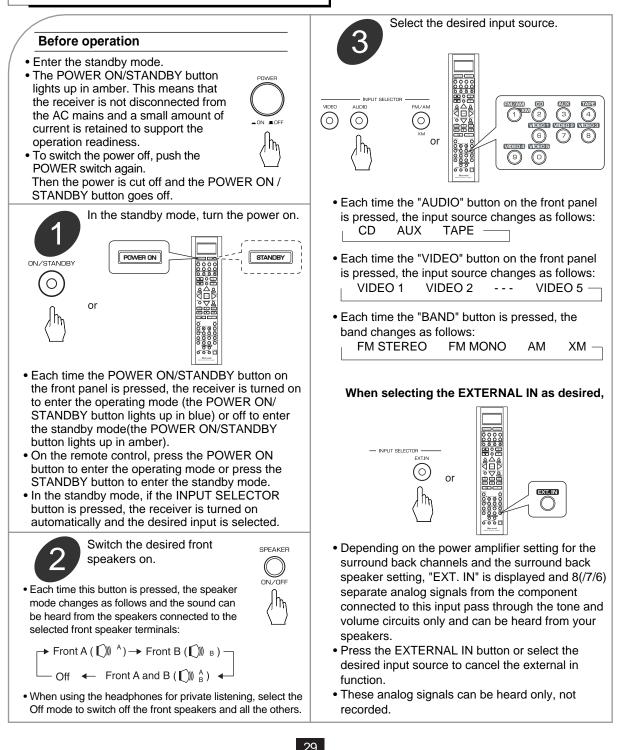
28

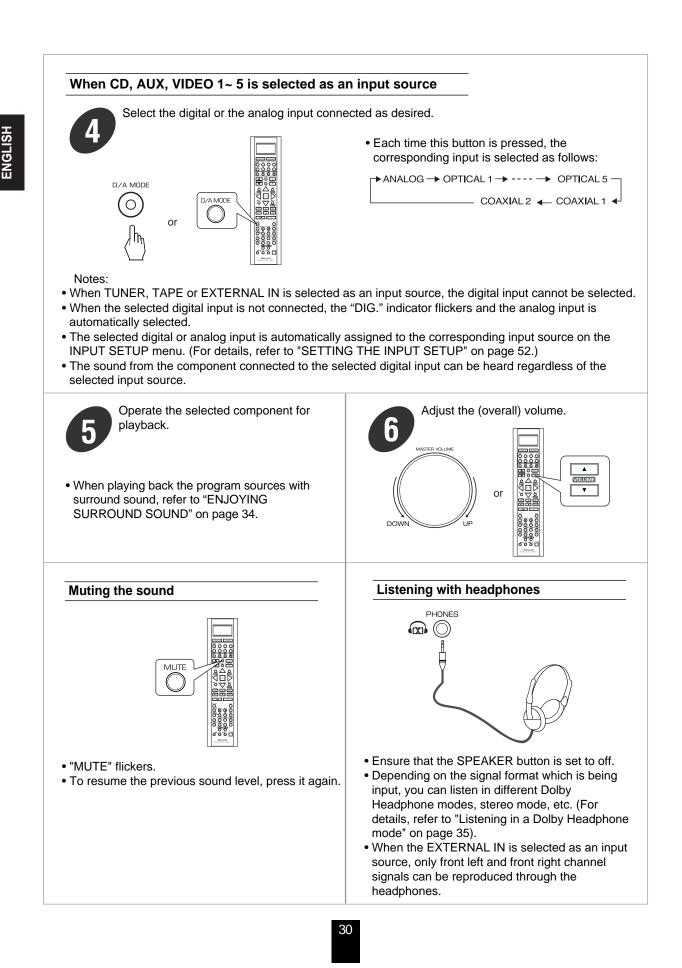
Operations

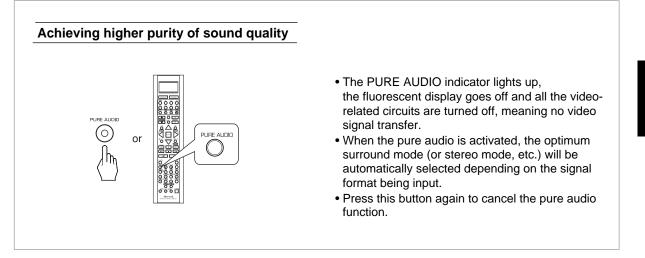
Notes:

- Before operating this receiver with the supplied remote control, refer to "Universal Remote Controls" on page 17 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 47.)

LISTENING TO A PROGRAM SOURCE









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 multi-channel digital signal format which can handle higher data rates. Discs bearing the "

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.



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", "Neo:6" and "DTS 96/24" 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 "DIGLEY" includes the recording of up to 5.1 channels of

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 "DOLBY")" 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 three 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 IIx Game

When playing games, this mode allows you to further enhance the dynamic surround effects by adding processing that emphasizes the surrounded and exciting sound.

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, Dolby Pro Logic II Music and Dolby Pro Logic II Game 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

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 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 play.

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.)

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

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

(*): 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 55.)



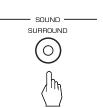
ENJOYING SURROUND SOUND

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 55.)
- 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 64.)
- When the EXTERNAL IN is selected as an input source, the surround modes cannot be selected.

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

follows :



Auto surround mode : The optimum surround mode will be ("AUTO" lights up.) automatically selected depending on the signal format being input. Manual surround mode : You can select the desired of different (AUTO" goes off.) surround modes selectable for the signal being input with using the MULTI CONTROL knob or the SURROUND MODE UP/DOWN (/) buttons.

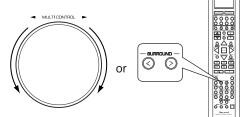
· Each time this button is pressed, the mode changes as

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 manual surround mode with pressing the SURROUND MODE button on the front panel.

Select the desired surround mode.



 Each time the MULTI CONTROL knob 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 EX 6.1 channel sources,	<dolby +="" d="" digital="" dolby="" ex,="" music="" pliix="">, (DOLBY D + PLIIX MOVIE),</dolby>				
Dolby Digital 5.1 channel sources	DOLBY DIGITAL, DOLBY VS REFERENCE, DOLBY VS WIDE				
Dolby Digital 2 channel sources	<dolby dolby="" game="" movie,="" music,="" pliix="">, [DOLBY PLII MOVIE,</dolby>				
	DOLBY PLII MUSIC, DOLBY PLII GAME], DOLBY VS REFERENCE, DOLBY VS WIDE				
DTS ES Discrete/Matrix 6.1 channel	<corresponding +="" dts="" es="" mode,="" music="" pliix="">, (DTS + PLIIx MOVIE), DTS,</corresponding>				
sources	DOLBY VS REFERENCE, DOLBY VS WIDE				
DTO	DTS, DOLBY VS REFERENCE, DOLBY VS WIDE, <dts +="" dts="" music="" neo:6,="" pliix="">,</dts>				
DTS sources	(DTS + PLIIX MOVIE)				
DTS 96/24 sources	DTS 96/24, DOLBY VS REFERENCE, DOLBY VS WIDE				
	<dolby dolby="" game="" movie,="" music,="" pliix="">, [DOLBY PLII MOVIE,</dolby>				
96 kHz PCM (2 channel) sources	DOLBY PLII MUSIC, DOLBY PLII GAME], NEO:6 CINEMA, NEO:6 MUSIC,				
	THEATER, HALL, STADIUM				
PCM (2 channel) sources,	<dolby dolby="" game="" movie,="" music,="" pliix="">, [DOLBY PLII MOVIE,</dolby>				
Analog stereo sources	DOLBY PLII MUSIC, DOLBY PLII GAME], DOLBY VS REFERENCE, DOLBY VS WIDE,				
Analog stereo sources	NEO:6 CINEMA, NEO:6 MUSIC, THEATER, HALL, STADIUM				

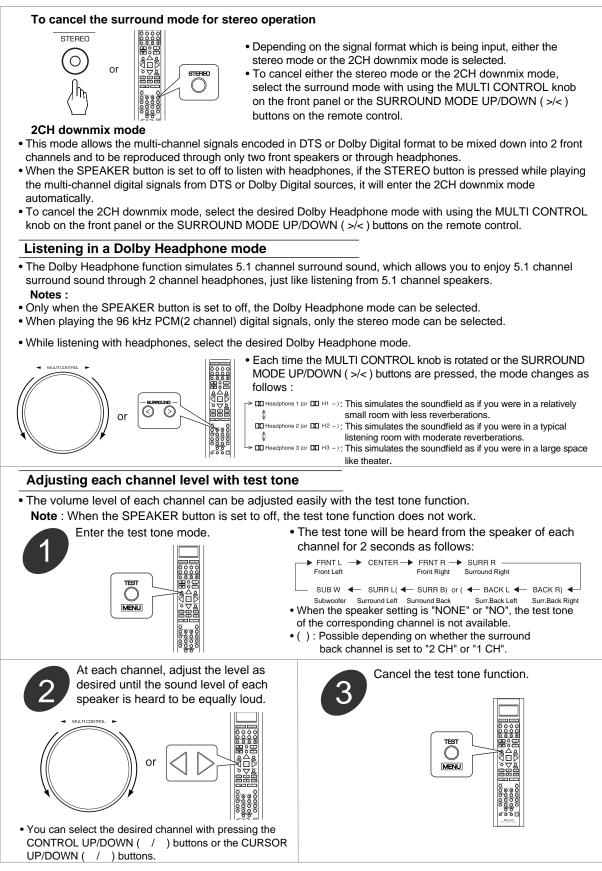
< >: Possible only when surround back speaker is not set to "NONE".

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

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



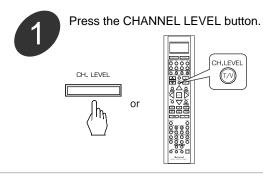
Continued

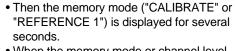


ENGLISH

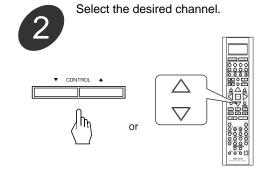
Adjusting the current channel level

- After adjusting each channel level with test tone, adjust the channel levels either according to the program sources or to suit your tastes.
- You can adjust the current channel levels as desired. These adjusted levels are just memorized into user's memory ("CALIBRATE"), not into preset memory("REFERENCE 1", "REFERENCE 2").





• When the memory mode or channel level disappears, press this button again.



• Each time these buttons are pressed, the corresponding channel is selected as follows:

→ <LFE> ←> SUB W ←> SURR L(←> SURR B) or (←> BACK L ←> BACK R) ← DTS LFE or Dolby Digital LFE

- (): Possible depending on whether the surround back channel is set to "2 CH" or "1 CH".
- < >: Possible only when the digital signals from Dolby Digital or DTS program sources that include LFE signal are input.
- Depending on the speaker settings("NONE" or "NO", etc.) and surround mode, etc., some channels cannot be selected.
- When the SPEAKER button is set to off, only the Front Left and Front Right channels can be selected.

 Adjust the level of the selected channel as desired.

 Image: Adjust the level of the selected channel as desired.

 Image: Adjust the level of the selected channel as desired.

 Image: Adjust the level of the selected channel as desired.

 Image: Adjust the level of the selected channel as desired.

 Image: Adjust the level of the selected channel as desired.

 Image: Adjust the level of the selected channel as desired.

 Image: Adjust the level of the selected channel as desired.

 Image: Adjust the level of the selected channel as desired.

 Image: Adjust the level of the selected channel as desired.

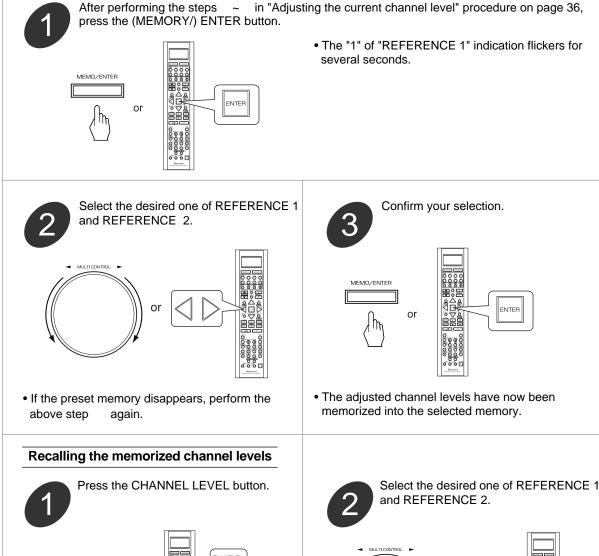
 Image: Adjust the level of the selected channel as desired.

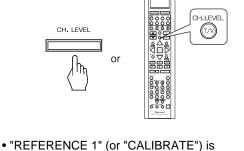
 Image: Adjust the level of the selected the selected



Memorizing the adjusted channel levels

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





- displayed for several seconds.
- If the channel level mode display disappears, press this button again.



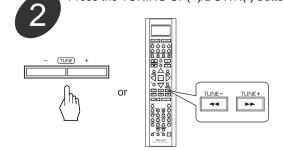
• Then the channel levels memorized into the selected preset memory are recalled.



Auto tuning Select the desired band.

BAND

Press the TUNING UP(+)/DOWN(-) buttons for more than 0.5 second.



FREQUENCY

• The tuner will now search until a station of sufficient strength has been found. The display shows the tuned frequency and "TUNED".

· Each time this button is pressed, the band

FM MONO

• When FM stereo broadcasts are poor because of

mode ("STEREO" goes off) to reduce the noise, then FM broadcasts are reproduced in monaural

 To listen to XM Satellite Radio, select XM mode. (For details, refer to "XM Satellite Radio (only for

North America)" on page 40.)

weak broadcast signals, select the FM mono

AM

XM -

changes as follows :

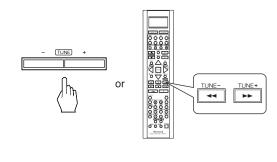
FM STEREO

sound.

- If the station found is not the desired one, simply repeat this operation.
- Weak stations are skipped during auto tuning.

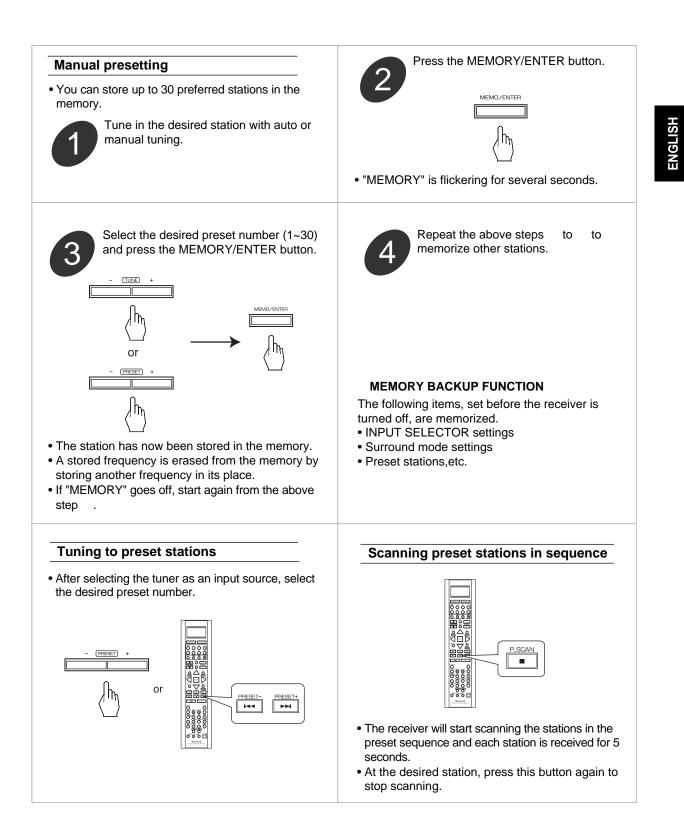
Manual tuning

- Manual tuning is useful when you already know the frequency of the desired station.
- After selecting the desired band, press the TUNING UP(+) / DOWN(-) buttons repeatedly until the right frequency has been reached.



Auto presetting

- Auto presetting function automatically searches for FM stations only and store them in the memory.
- While listening to radio broadcasts, press and hold down the MEMORY/ENTER button for more than 2 seconds.
 Then "ALTO MEMORY" flip/core
- Then "AUTO MEMORY" flickers and this receiver starts auto presetting.
- Up to 30 FM stations can be stored.
 Notes:
- FM stations of weak strength cannot be memorized.
- To memorize AM stations or weak stations, preform "Manual presetting" procedure with using "Manual tuning" operation.
- In the XM mode, auto presetting doesn't work.





XM Satellite Radio (only for North America)

 This receiver is the XM Ready receiver. You can receive XM Satellite Radio by connecting to the XM Connect-and-Play[™] (sold separately) and subscribing the XM service.

What's XM Satellite Radio?

XM offers 170 digital channels with 69 commercial-free music channels.

XM, the nation's leading satellite radio service, launched nationwide on November 12, 2001.

Note :

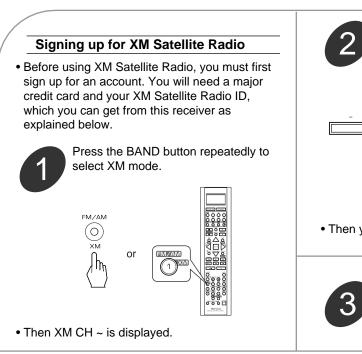
"XM Ready Products" : An XM Ready product is a product that has incorporated minimal technology to support the XM Service via an external/receiver chipset such as XMDirect or XM Connect-and-Play™ antenna, which are sold separately. XM Ready products do not have the full XM receiver functionality into the main product configuration but require the addition of an off-board receiver accessory to make a complete XM Radio System.

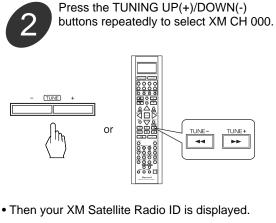
A warning against reverse engineering

It is prohibited to copy, decompile, disassemble, reverse engineer, or manipulate any technology incorporated in receivers compatible with the XM Satellite Radio system.

XM \$12.95 monthly service subscription sold separately. XM Passport system required to receive XM service sold separately. Installation costs and other fees and taxes, including a one-time activation fee may apply. Subscription fee is consumer only. All fees and programming subject to change. Channels with frequent explicit language are indicated with an XL. Channel blocking is available for XM radio receivers by calling 1-800-XMRADIO. Subscriptions subject to Customer Agreement available at xmradio.com. XM service only available in the 48 contiguous United States. XM Ready is trademarks of XM Satellite Radio Inc. 2006 XM Satellite Radio Inc. All rights reserved.

LISTENING TO XM SATELLITE RADIO

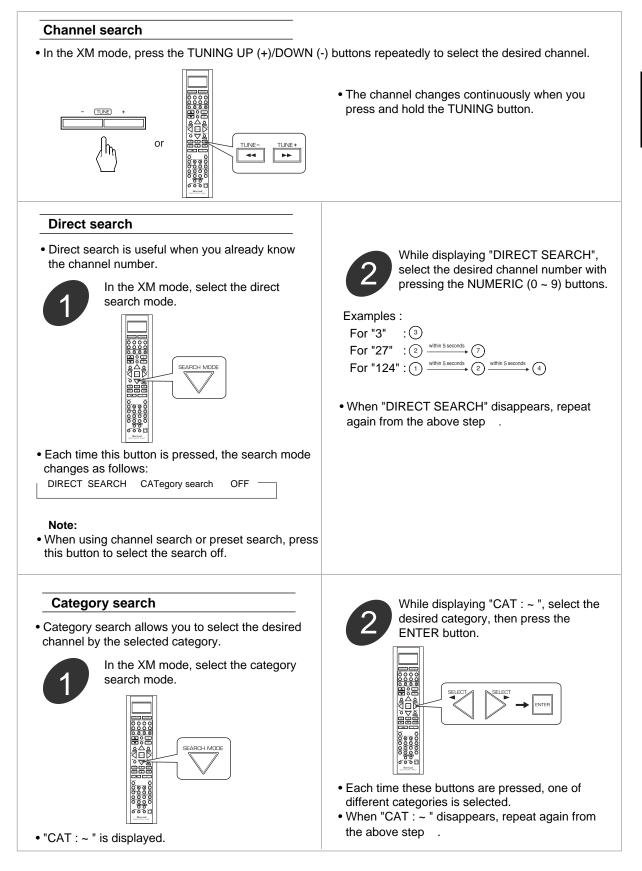


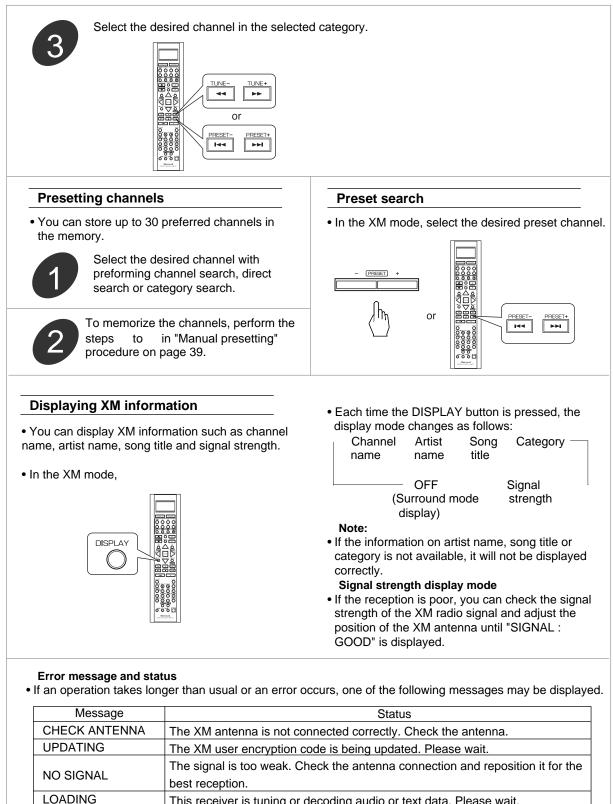




To sign up, access the website at "http://activate.xmradio.com" or call "1-800-967-2346".





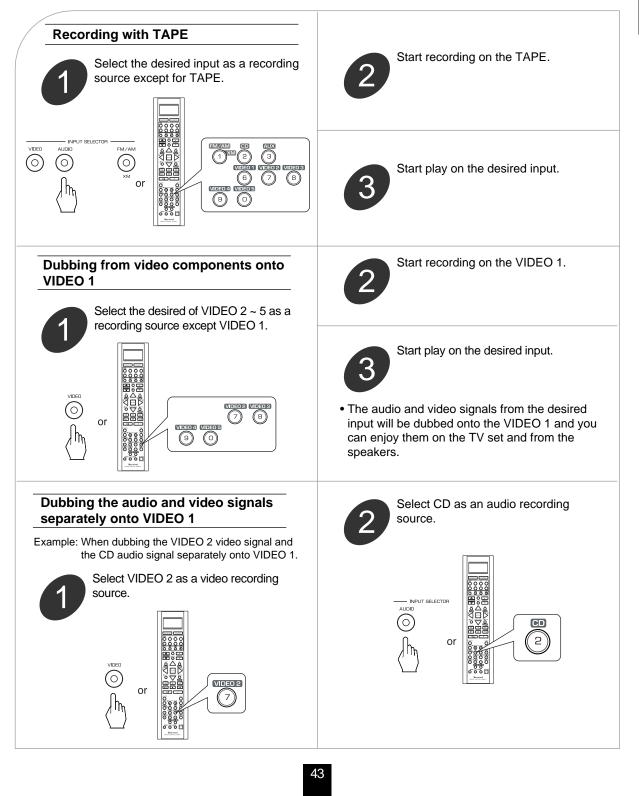




RECORDING

• 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, AUX, VIDEO 1~5, be sure to select the analog input.
- (For details, refer to "When CD, AUX, VIDEO 1~5 is selected as an input source" on page 30.)
- The volume and tone (bass, treble) settings have no effect on the recording signals.



Start recording on the VIDEO 1.

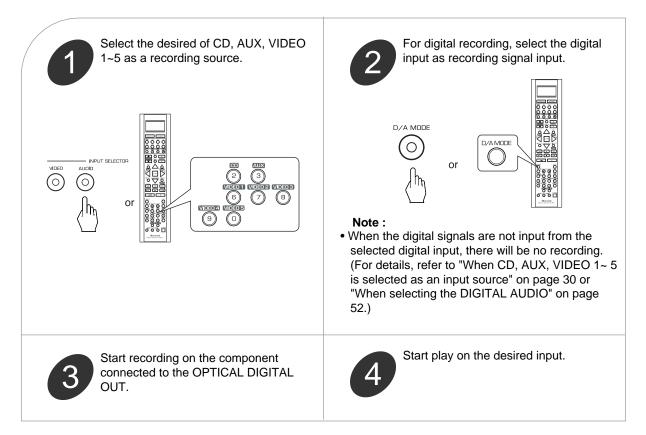


Start play on the VIDEO 2 and the CD respectively.

- 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 and .

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:



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.

Displaying the audio information

- You can check the audio information of the input source other than tuner on your monitor TV.
- During playback,

- Depending on whether the input signal is digital or analog signal, the corresponding information is displayed for several seconds.
- Example : When playing the digital signals from the Dolby Digital source.

AUDIO INFORMATION

Adjusting the brightness of the

 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:

OFF

• In the display OFF mode, pressing any button

will cancel the display OFF mode for several

seconds to display the operation status.

dimmer

ON

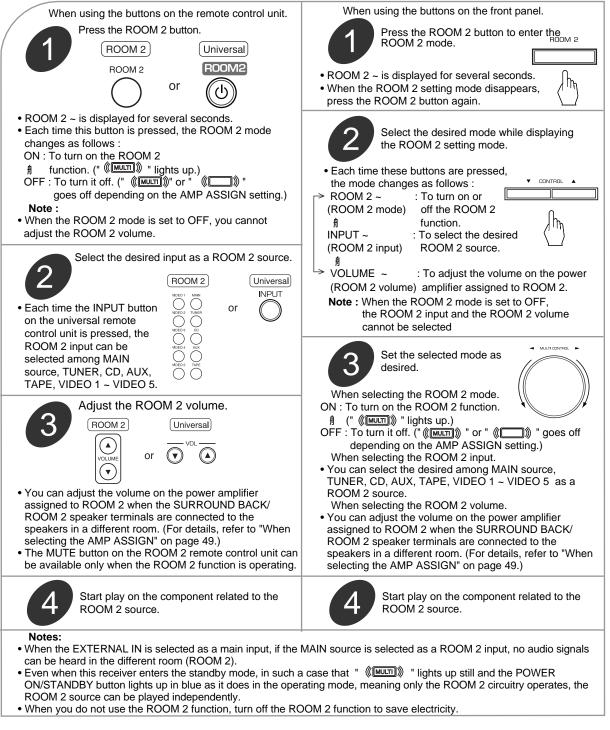
fluorescent displays

FORMAT : DOLBY DIGITAL fs : 48 kHz CHANNEL : 3 / 2.1 ENGLISH



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 not only the universal remote control unit but also the ROOM 2 remote control unit in a different room, too. (For details, refer to "CONNECTING MULTI-ROOM SYSTEM KIT" on page 13 and "ROOM 2 Remote Controls" on page 28.)
 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.





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.

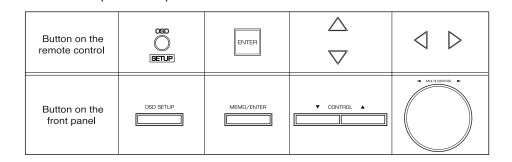
Notes:

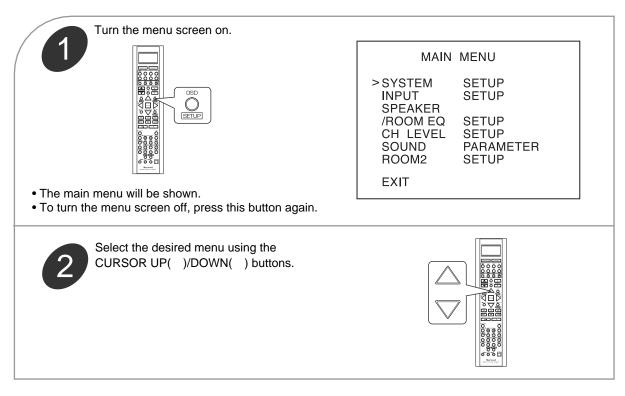
- The OSD menu and the momentary OSD cannot be diplayed via MONITOR HDMI OUT connector.
- Depending on the VIDEO MODE setting and the video connections between this receiver and the video component, the OSD menu and the momentary OSD cannot be displayed via MONITOR COMPOSITE OUT jack, or the picture 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

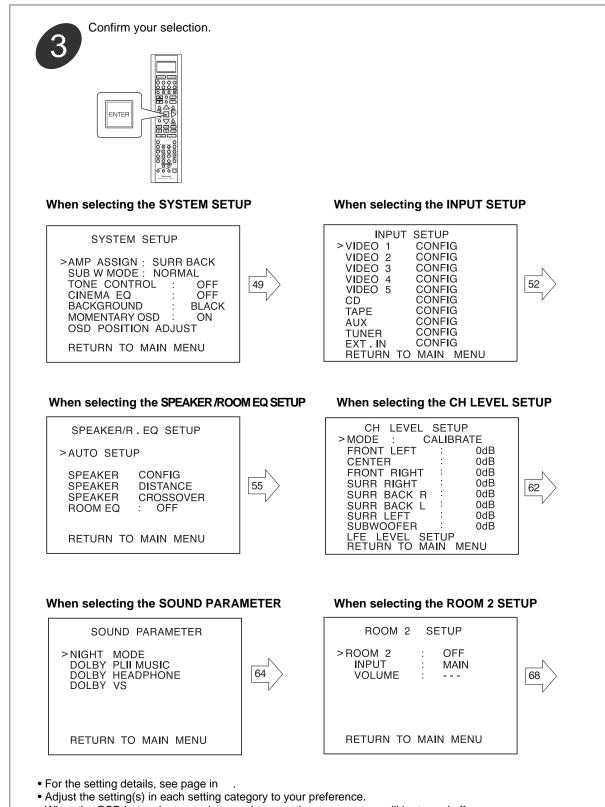
 The explanations here assume you are using the buttons on the remote control when performing the OSD menu operation. However, you can use the buttons on the front panel as well. The buttons on the front panel correspond to those on the remote control as shown below.







ENGLISH

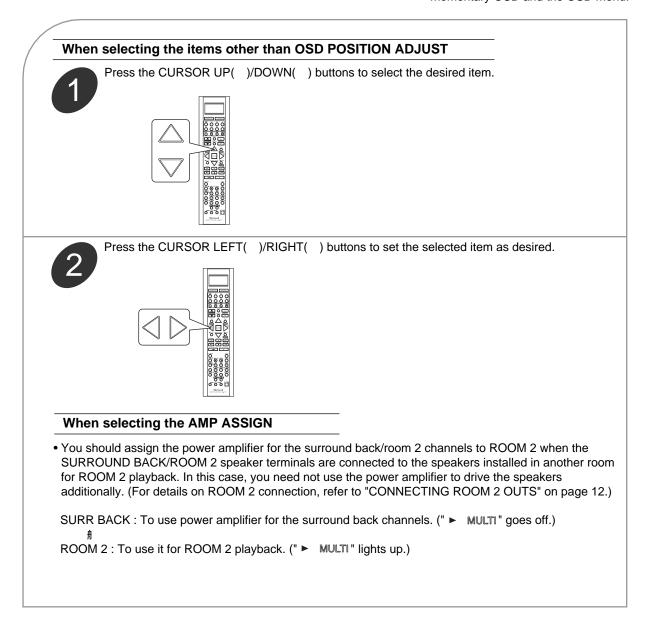


• When the OSD button is pressed on a sub-menu, the menu screen will be turned off.



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

ENGLIS





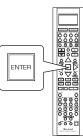
When selecting the SUBWOOFER MODE

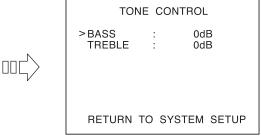
- "SW PLUS + " mode is valid only when "FRONT" and "CENTER" are set to "LARGE" and "SUBWOOFER" is set to "YES" on the SPEAKER/ROOM EQ SETUP menu. (For details, refer to "SETTING THE SPEAKER/ ROOM EQ SETUP" on page 55.)
- - In this mode, the low frequency signals that are reproduced from the subwoofer channel is only the low frequency signals of LFE (from the multi-channel sources that contains LFE (Low Frequency Effects) channel, also called the ".1" channel) and the channels set to "SMALL".
- SW PLUS + : When the low frequency signals of channels set to "LARGE" are reproduced simultaneously from those channels and the subwoofer channel. In this mode, the low frequency range expands more uniformly through the room, but depending on the size and shape of the room, interference may result in a decrease of the actual volume of the low frequency range.

When selecting the TONE CONTROL

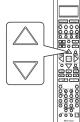
OFF : To listen to a program source without the tone effect. ("TONE" goes off.)

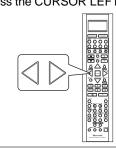
- ON : To adjust the tone for your taste. ("TONE" lights up.)
- When the TONE CONTROL is set to ON to adjust the tone (bass and treble)
- Press the ENTER button to enter the tone adjustment mode.





2. Press the CURSOR UP()/DOWN() buttons to select the desired tone mode.





- 3. Press the CURSOR LEFT()/RIGHT() buttons to adjust the selected tone as desired.
 - The tone level can be adjusted within the range of -10 ~ +10 dB.
 - In general, we recommend the bass and treble to be adjusted to 0 dB (flat level).
 - Extreme settings at high volume may damage your speakers.
 - To complete tone adjustment, repeat the above steps 2 and 3.
 - 50

R

When selecting the CINEMA EQ

OFF : To turn off the cinema EQ function. ("CINEMA-EQ" goes off.)

ON : To compensate for edgy or shrill movie sound tracks. ("CINEMA-EQ" lights up.) **Note :** When the EXTERNAL IN is selected as an input source, the CINEMA EQ is automatically set to OFF.

When selecting the BACKGROUND

BLACK : To display the black as the color background of the OSD menu.

BLUE : To display the blue.

Note : Only when no video signals are input into this unit, the selected background color will be displayed.

When selecting the MOMENTARY OSD

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

OFF : To turn it off.

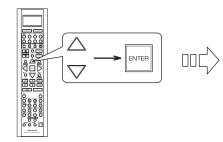
Note: When outputting the component video signal from the MONITOR COMPONENT OUT jacks as it was input, the momentary OSD cannot be displayed.

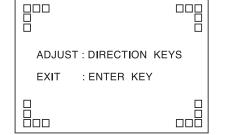
When selecting the OSD POSITION ADJUST

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



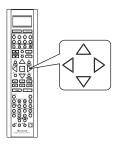
Press the CURSOR UP()/DOWN() buttons to select the OSD POSITION ADJUST, then press the ENTER button.





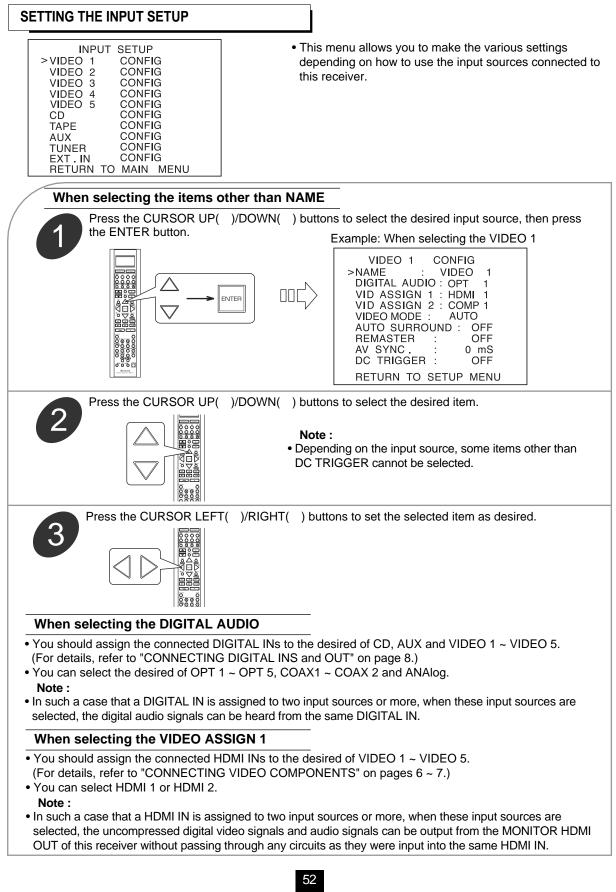


Press the CURSOR UP()/DOWN()/LEFT()/RIGHT() buttons to adjust the position of the momentary OSD and the OSD menu as desired.





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When selecting the VIDEO ASSIGN 2

- You should assign the connected COMPONENT VIDEO INs to the desired of VIDEO 1 ~ 5.
- (For details, refer to "CONNECTING VIDEO COMPONENTS" on pages 6 ~ 7.)
- You can select the desired of COMP 1 ~ 3.

Note :

• In such a case that a COMPONENT VIDEO IN is assigned to two input sources or more, when these input sources are selected, the component video signals can be viewed from the same COMPONENT VIDEO IN.

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 signal format being input. (Auto surround mode)

舟 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 34.)

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 signal digitally 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 signal digitally and to convert its sampling frequency to 88.2/96 kHz for a more detailed sound reproduction.

OFF : To turn off the remastering function.

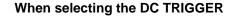
Note :

• 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 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.



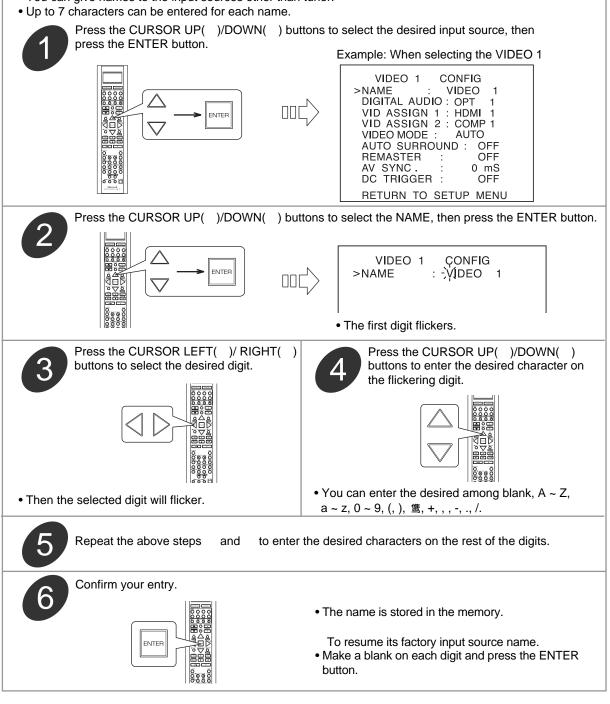


• To turn on the component connected to the DC TRIGGER OUT jack when this input source is selected, you should set the DC TRIGGER to ON for this input source. OFF : To turn off the DC trigger function.

- ON: To turn it on.
- For details, refer to "CONNECTING DC TRIGGER OUT" on page 9.

When selecting the NAME

• You can give names to the input sources other than tuner.



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 CROSSOVER and CH LEVEL SETUP procedures.

SPEAKER/R.EQ SETUP

>AUTO SETUP

SPEAKER CONFIG SPEAKER DISTANCE SPEAKER CROSSOVER ROOM EQ : OFF

RETURN TO MAIN MENU

- AUTO SETUP : To set the speaker setup and channel level setup automatically.
- SPEAKER CONFIGURATION : To select the sizes of the speakers that are connected.
- 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.
- \bullet ROOM EQ $\,$: To turn on or off the room EQ.

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 57, "When selecting the SPEAKER DISTANCE" on page 59, "When selecting the SPEAKER CROSSOVER" on page 60, "Adjusting each channel level with test tone" on page 35 and "Adjusting the current channel level" on page 36.
- 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 61.)

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 16.)

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.



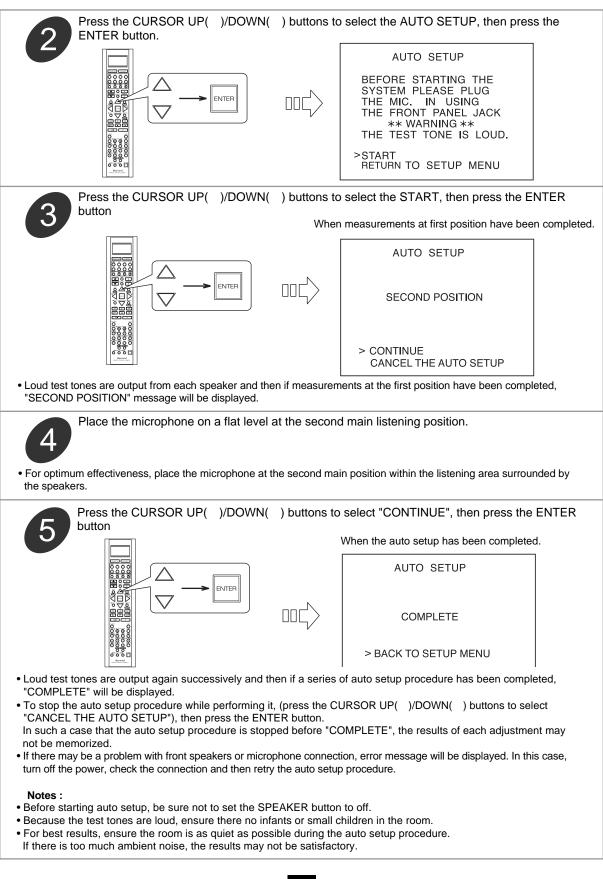
Place the microphone on a flat level surface at the first main listening position.

 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.

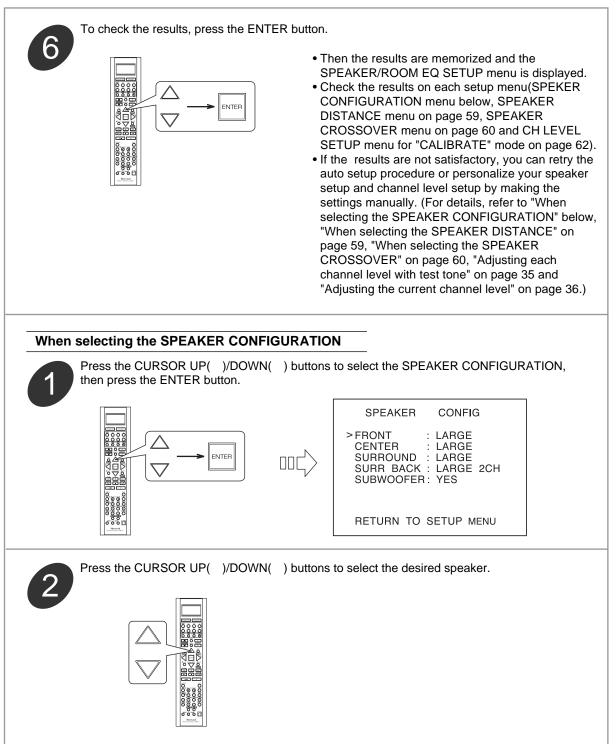
• Ensure there are no obstacles between the speakers and the microphone.



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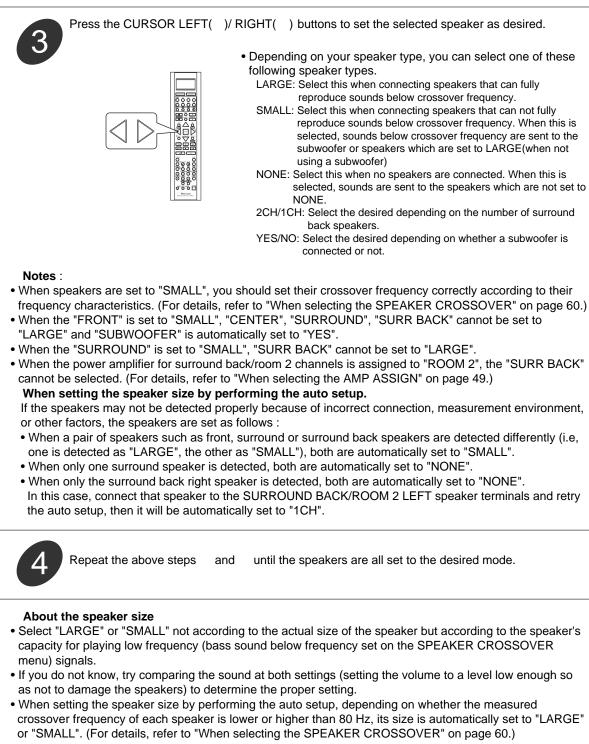




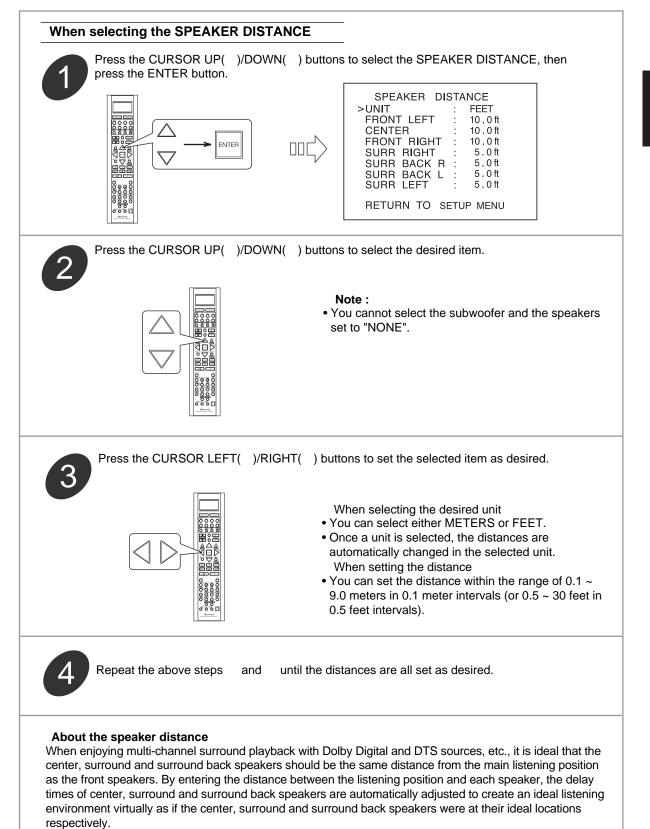


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58



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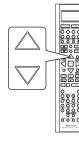
When selecting the SPEAKER CROSSOVER

• When speakers are set to "SMALL", be sure to set their crossover frequency correctly according to their frequency characteristics.

Press the CURSOR UP()/DOWN() buttons to select the SPEAKER CROSSOVER, then press the ENTER button. ENTER

SPEAKER X-OVER > FRONT 80Hz CENTER 80Hz 80Hz SURROUND 80Hz SURR BACK : RETURN TO SETUP MENU





Press the CURSOR UP()/DOWN() buttons to select the desired speaker.

Note : · You cannot select the subwoofer and the speakers set to "NONE".

Press the CURSOR LEFT()/RIGHT() buttons to set the crossover frequency as desired.

· You can adjust the crossover frequency within the range of 40 ~ 200 Hz in 10 Hz intervals.

until the crossover frequencies are all set as desired.

and

About the crossover frequency

Repeat the above steps

- When speakers are set to "SMALL", low frequencies in those channels that are below the crossover frequency are to output from subwoofer or front speakers which are set to LARGE(when not using a subwoofer).
- Refer to the operating instructions of the speakers to be connected. If the frequency range of your speaker is 100 Hz~20 kHz, the crossover frequency should be set to 100 Hz(or slightly higher).





When selecting the ROOM EQ

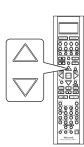
- The room EQ is a kind of room equalizer for your speakers. According to the acoustic characteristics of your room measured by the auto setup, the room EQ automatically adjusts the frequency response of your speakers.
- If you use different brands or sizes of speakers for some channels or have a room 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 55.)

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



Press the CURSOR LEFT()/RIGHT() 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 >MODE : CALIBRATE FRONT LEFT : OdB CENTER : OdB FRONT RIGHT : OdB SURR RIGHT : OdB SURR BACK R : OdB SURR BACK L : OdB SURR LEFT : OdB SUBWOOFER : OdB LFE LEVEL SETUP RETURN TO MAIN MENU	———Memory mode

Note :

• Depending on the speaker settings("NONE" or "NO", etc.), some channels cannot be selected.

Adjusting the current channel level

• You can adjust the current channel levels as desired. These adjusted levels are just memorized into user's memory("CALIBRATE"), not into preset memory("REFERENCE 1", "REFERENCE 2").

• After adjusting each channel level with test tone, adjust the channel levels either according to the program sources or to suit your tastes. (For details, refer to "Adjusting each channel level with test tone" on page 35.)

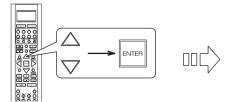


Press the CURSOR UP()/DOWN() buttons to select the desired channel.



When adjusting the LFE LEVEL

1. Press the CURSOR UP()/DOWN()buttons to select the LFE LEVEL SETUP, then press the ENTER button.



LFE LEVEL	SETUF	•
>DOLBY DIGITAL DTS	:	0dB 0dB

recommended levels seem too high, lower setting

2. Press the CURSOR UP()/DOWN() buttons to select the desired program source.

Press the CURSOR LEFT()/RIGHT(program source's LFE as desired.
The LFE level can be adjusted within the range of -10 ~ 0 dB and other channel levels within the range of -15 ~ +15 dB
In general, we recommend the LFE level to be adjusted to 0 dB.(However, the recommended LFE level for some early DTS software is -10 dB.) If the

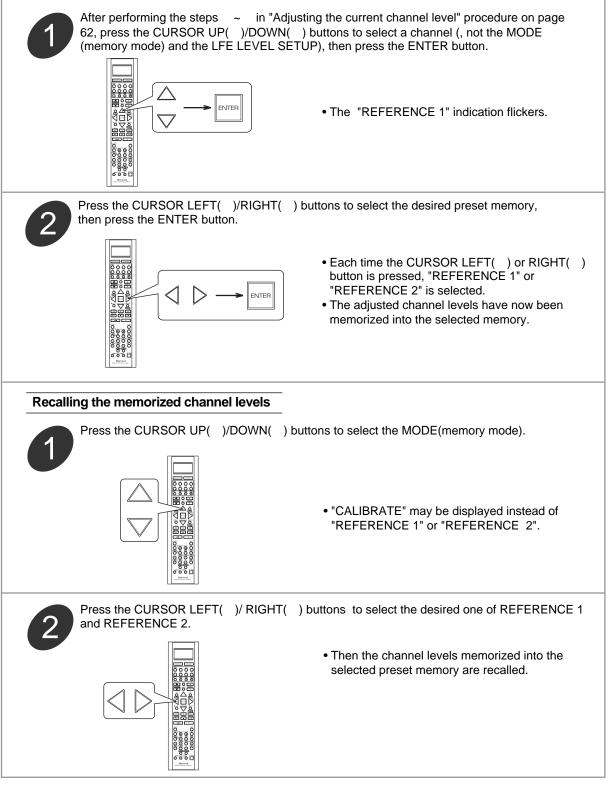
Repeat the above steps and to adjust each channel level.



Memorizing the adjusted channel levels

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

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SETTING THE SOUND PARAMETER

SO	UND	PARAMETER
>NIGHT	мог	DE

DOLBY PLII MUSIC DOLBY HEADPHONE DOLBY VS

- 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. • DOLBY VIRTUAL SPEAKER : To select the speaker layout to be

used actually for each Dolby

Virtual Speaker mode.

RETURN TO MAIN MENU

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 non-specified parts.

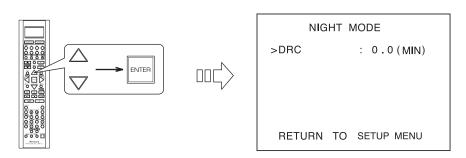
This makes it easy to hear all of the sound track when watching movies at night at low levels.

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.

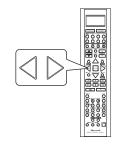


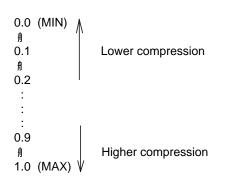
Press the CURSOR UP($\)/\text{DOWN}(\)$ buttons to select the NIGHT MODE, then press the ENTER button.



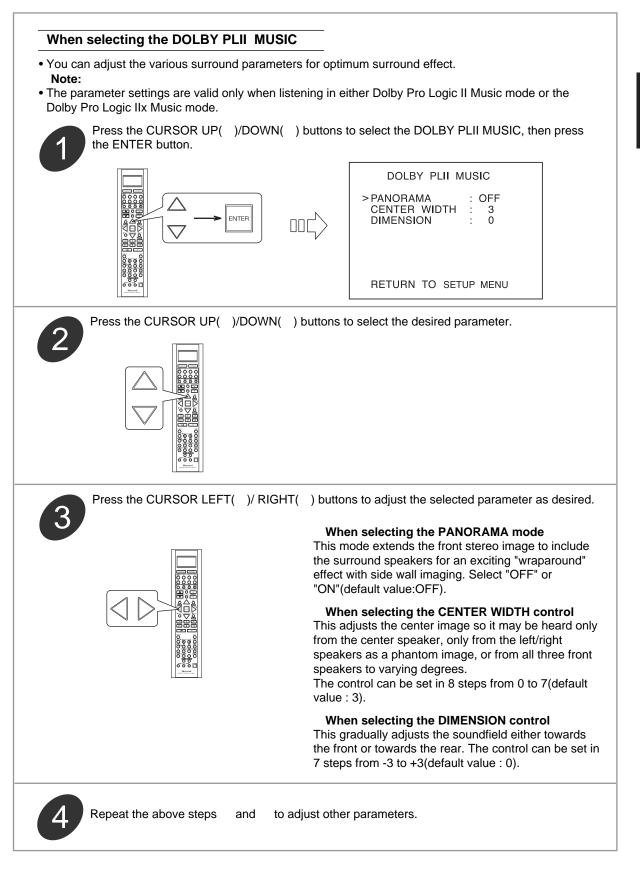


Press the CURSOR LEFT($\)/$ RIGHT($\)$ buttons to adjust the dynamic range compression as desired.



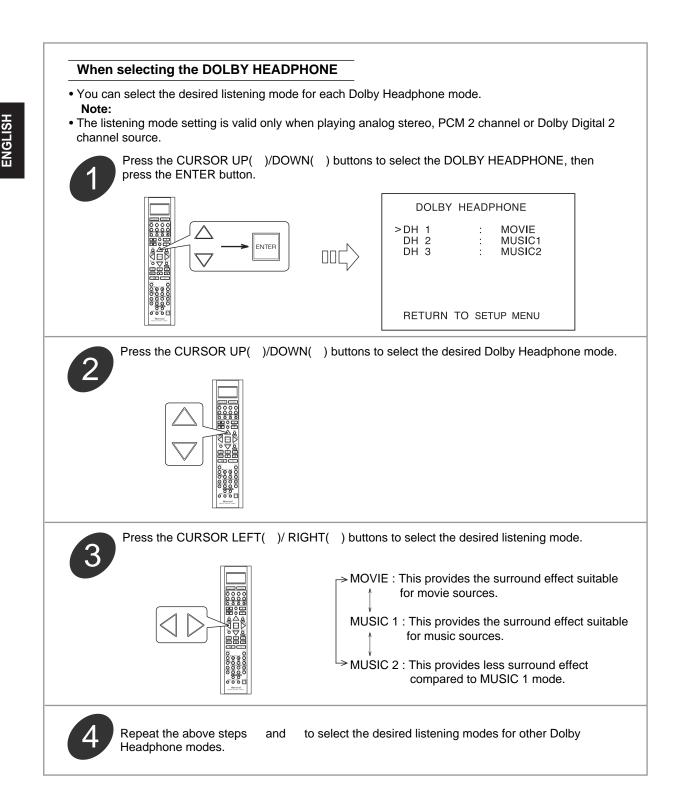


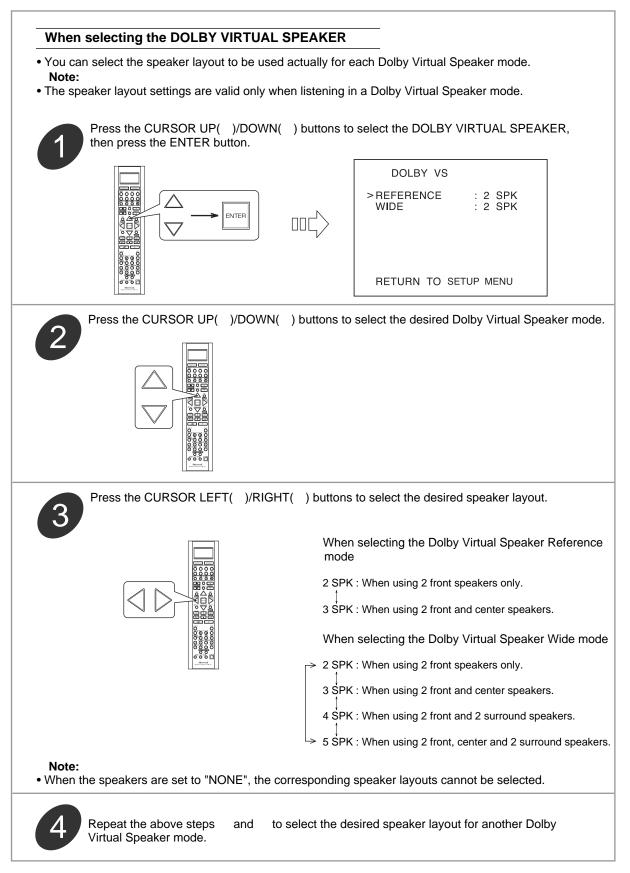




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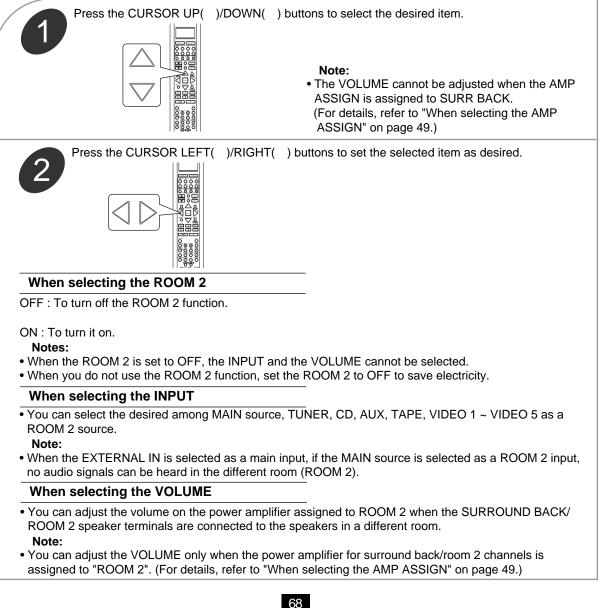


SETTING THE ROOM 2 SETUP

- 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 SETUP >ROOM 2 OFF INPUT MAIN VOLUME RETURN TO MAIN MENU
- 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.





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 34.) Assign the power amplifier to the surround back channels.(For details, refer to "When selecting the AMP ASSIGN" on page 49.) 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, 8 , THD 0.08 %, 20 Hz~20 kHz	
Total harmonic distortion, 8 , 95 W, 1 kHz	
 Intermodulation distortion 	
60 Hz : 7 kHz= 4 : 1 SMPTE, 8 , 95 W	0.1%
 Input sensitivity/impedance 	
Line (CD, TAPE, VIDEO)	
 Signal to noise ratio, IHF "A" weighted 	
Line (CD, TAPE, VIDEO)	
Frequency response	
Line (CD, TAPE, VIDEO), 20 Hz~100 kHz	0, -3 dB
Output level	
TAPE OUT, 2.2 k	
PRE OUT (Front, Center, Surround, Surround back, Subwoofer),	
Bass/Treble control, 100 Hz/10 kHz	±10 dB
Surround mode, only channel driven	
Front power output, 8, 1 kHz, THD 0.08%	
Center power output, 8 , 1 kHz, THD 0.08 %	
Surround power output, 8 , 1 kHz, THD 0.08 %	
Surround back / ROOM 2 power output, 8 , 1 kHz, THD 0.08 %	115W / 115W
Sampling frequency	
Digital input level	0.5.1/
Coaxial, 75	
Optical, 660 nm	-15~-21 dBm
VIDEO SECTION	
VIDEO SECTION • Video format	NTSC
	NISC
 Input sensitivity(=Output level), 75 Video (Composite(normal)) 	4 V/n n
S-Video (luminance signal)	
Component video (R-Y signal)	
	0.5 Vр-р 1.0 Vр-р
HDMI connector	
FM TUNER SECTION	
Tuning frequency range	87.5~108 MHz
Usable sensitivity, THD 3%, S/N 30 dB	
• 50 dB quieting sensitivity, mono/stereo	
Signal to noise ratio, 65 dBf, mono/stereo	
Total harmonic distortion, 65 dBf,1 kHz, mono/stereo	
Frequency response, 30 Hz~15 kHz	
Stereo separation, 1 kHz	
Capture ratio	
• IF rejection ratio	
AM TUNER SECTION	
• Tuning frequency range	
Usable sensitivity	
Signal to noise ratio	
Selectivity	
GENERAL	
Power supply	120 V ~ 60 Hz
Power consumption	
Switched AC outlets	
• Dimensions (W × H × D, including protruding parts)	
Weight (Net)	15.5 kg (34.1 lbs)

Note: Design and specifications are subject to change without notice for improvements.



Setup Code Table_

TV													
AOC	005	003					Goldstar	005	025	003	011		
Admiral	041	031					Gradiente	009	011		• • •		
Aiko	014						Grunpy	027	026				
Akai	005						Hallmark	025					
Alaron	026						Harley Davidson	026					
Ambassador	024						Harman/Kardon	010					
America Action	027						Havard	027					
Ampro	043						Hitachi	016	011	018			
Anam	027	047	048	049			Infinity	010					
Audiovox	030	027	014	034			Inteq	002					
Baysonic	027						JBL	010					
Belcor	003						JCB	050					
Bell & Howell	019	001					JVC	009	046				
Bradford	027						KEC	027					
Brockwood	003						KTV	027	005	006			
Broksonic	028	031					Kenwood	005	003				
CXC	027						LG	011	003				
Candle	005	011					LXI	007	010	019	020	025	
Carnivale	005						Logik	001					
Carver	010						Luxman	011					
Celebrity	050						MGA	017	005	025	003		
Cineral	030	014	044	000	044		MTC	012	005	003	011		
Citizen	012	005	011	006	014		Magnavox	010	005	026			
Concerto Contec	011 027						Magestic Marantz	001 010	005				
Craig	027						Matsushita	010	005				
Crosley	027						Magatron	042	016				
Crown	010	006					Memorex	023	042	031	017	025	011
Curtis Mathes	027	010	019	008	030	041	Memorex	001	042	031	017	025	011
	012	005	016	011	001	006	Midland	007	002	008	006	015	
	022	032	038	040	001	000	Minutz	004	002	000	000	010	
Daewoo	030	003	006	014	034	035	Mitsubishi	041	017	025	003		
Daytron	003			••••			Motorola	041	•	020			
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	800	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						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	800	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						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						Curtis Mathes	013	004	026	028		
Signature	001						Cybernex	023					
Sony	050	005	000				Daewoo	010	025				
Soundesign	027	025	026				Denon	800					
Squareview	023						Dynatech	000					
Starlite	027 050						Electrohome	005 005					
Supreme Sylvania	050	005					Electrophonic Emerex	005					
Symphonic	010	005					Emerson	002	020	000	018	009	021
TMK	025	011	024				Lineison	003	020	000	010	003	021
Tandy	023	011	024				Fisher	012	025				
Technics	008	042					Fuji	012	003				
Technoi Ace	026	042					Funai	000	000				
Techwood	008	011					GE	013	004	027	023		
Teknika	010	027	017	012	003	026	Garrard	000	004	021	020		
. c.t. inte	011	001	006	012	500		Go Video	052					
Telefunken	011			• • •			GoldStar	005	006				
Toshiba	019	020	012				Gradiente	000					
Totevision	006						HI-Q	012					
Vector Research	005						Harley Davidson	000					
Victor	009						Harman/Kardon	016	006				
Vidikron	010						Harwood	015					

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Headquarter	011	Realistic 004 005 027 012 000 017
Hitachi	000 008 026	011
Hughes Net.Sys	008	Runco 007
JVC	014 026	STS 008
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 004 005 012 000 008 017
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	TMK 023
Marta	005	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	Thomas 000
Mitsubishi	008 027 014 009	Toshiba 010 009
Motorola	004 027	Totevision 005 023
Multitech	000 015	Unitech 023
NEC	017 014 026 006	Vector 010
Nikko	005	Vector Research 006
Noblex	023	Video Concepts 010
Olympus	004	
Opimus	005 027 017 028 029 030	Wards 013 004 027 012 016 023
Orien	031 032	000 008 015 019
Orion	020 021 001	White WestingHouse 021 025
Panasonic	004 028 022 029 031	XR-100 004 000 015
Penny	004 005 023 008 006	Yamaha 006
Pentax	008	Zenith 007 000 021 003
Philco	004 021	Ameira High 004 (TV use 008)
Philips	004 016	Brocksonic 001
Pilot	005	Colt 015
Pioneer	014	Cutis Mathes 004 (TV use 008)
Profitronic	023	Daewoo 025
Proscan	013	Emerson 001
Protec	015	Funai 000
Pulsar	007	GE 004 (TV use 008) 013 (TV use 012)
Quarter	011	027 (TV use 041) 023
Quartz	011	Hitachi 004 (TV use 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 use 010) 004 (TV use 008)
Randex	005	000

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Magnin	023	CBL						
Memorex	005 028 (TV use 025)	ODL						
Mitsubishi	027 (TV use 041)							
Orion	001	ABC	002	003	009	030		
Panasonic	004 (TV use 008) 028 (TV use 042)		007	006	008			
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	006	034		
DVD		GoldStar	017	040				
		Goodmind	026					
Harman/Kardon	009	Hamlin	012	020	004	013		
JVC	008	Hitachi	006					
Kenwood	005	Hytex	007					
Megavox	011	Jasco	010	018	021			
Mitsubishi	016	Jerrold	002	007	033	032	009	010
Onkyo	011		006	034				
Panasonic	013	Movie Time	015					
Philips	011 006	NSC	015					
Pioneer	003 014 026	Oak	011					
Proscan	002	Optimus	031					
RCA	002	Panasonic	016	031				
Samsung	017	Philips	018					
Sherwood	001 012 000 018 019	Pioneer	017	025				
	020 021 022 023 025	Popular Mechanics	022					
Sony	004	RCA	031					
Technics	013	Radio Shack	010	021	026	028		
Theta Digital	014	Recoton	022					
Toshiba	011	Regal	012	020				
Yamaha	013 007	Regency	001					
Zenith	011 010	Rembrandt	006					
		Sherwood	000					
		SL Marx	014					
		Smasung	017	014				

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Scientific Atlanta

Signal

Signature

Sprucer

Starcom

003

010

006

031

002 010

023

014

030 027

Stargate	010	014	026
Starquest	010		
TV86	015		
Teleview	014		
Tocom	007	008	
Tusa	010		
Unika	018		
United Artists	007		
Universal	153	019	
Viewstar	015		
Zenith	024		
Zentek	022		

SAT

AlphaStar	008		
Chaparral	001		
Echostar	009		
Expreevu	009		
General Instrument	016	015	018
HTS	009		
Hitachi	011		
Hughes Net.Sys	007		
JVC	009		
Jerrold	016	015	
Megavox	006	005	
Memorex	006		
Next Level	006		
Panasonic	017		
Philips	006	005	
Primestar	016	015	
RCA	003	002	012
Radio Shack	018		
Realistic	014		
Sherwood	000		
Sony	004		
Star Choice	018		
Toshiba	010		
Uniden	006	005	014
Zenith	013		

AUX-TAPE/MD

Sherwood

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

AUX-LD

Denon	007	
Mitsubishi	007	
NAD	007	
Pioneer	007	
Sony	017	018

AUX-TAPE

Aiwa	004	034	
Carver	004		
Harman/Kardon	016	004	
JVC	022	024	
Kenwood	008		
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

Aiwa	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	

I
S
<u>ত</u>

GE	043
Lutron	044
One For All	042
Radio Shack	043
Security System	042
Universal X10	042
X10	042

AUX-DBS

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

AUX-ACCESSARY

Archer	013
GC Electronics	013
Jebsee	013
Rabbit	036
Radio Shack	013

CD]		
Aiwa	010	030	
Burmester	019		
California Audio Lab	002		
Carver	010	012	020
DKK	001		
Denon	028	034	
Emerson	035		
Fisher	012	033	
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