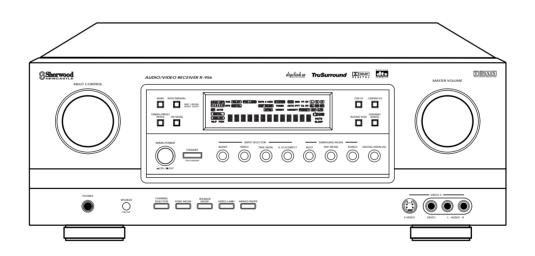
O P E R A T I N G I N S T R U C T I O N S





AUDIO/VIDEO RECEIVER

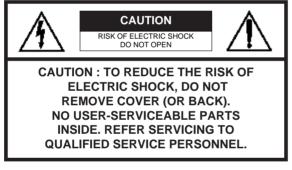
Introduction

UNPACKING AND

Congratulations on Your Purchase!

Your new high fidelity receiver is designed to deliver maximum enjoyment and years of trouble free service. Please take a few moments to read this manual thoroughly. It will explain the features and operation of your unit and help ensure a trouble free installation. Please unpack your unit carefully. We recommend that you save the carton and packing material. They will be helpful if you ever need to move your unit and may be required if you ever need to return it for service. Your unit is designed to be placed in a horizontal position and it is important to allow at least two inches of space behind your unit for adequate ventilation and cabling convenience.

To avoid damage, never place the unit near radiators, in front of heating vents, in direct sunlight, or in excessively humid or dusty locations. Connect your complementary components as illustrated in the following section.





This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

Caution : Do not block ventilation openings or stack other equipment on the top.

FOR U.S.A.

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

■FCC INFORMATION

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

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

CAUTION : Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Caution regarding placement (Except for U.S.A. and Canada)

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) equal to, or greater than, shown below.

Left and right panels: 5 cm Rear panel: 10 cm Top panel: 20 cm

2

READ THIS BEFORE OPERATING

FOR YOUR SAFETY

Units shipped to the U.S.A. and Canada are designed for operation on 120 Volts AC only.

Observe all safety precautions for use of a polarized AC plug. However, some products may be supplied with a non polarized plug.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, insert fully.

FOR YOUR SAFETY

Units shipped to Australia are designed for operation on 240 V AC only.

To ensure safe operation, the three-pin plug supplied must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring. Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth.

Improper extension cords are a major cause of fatalities. The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

PAN-EUROPEAN UNIFIED VOLTAGE

All units are suitable for use on supplies 230-240 V AC.

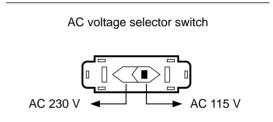
FOR OTHER COUNTRIES 115 V/230 V

FOR YOUR SAFETY

Units shipped to countries other than the above countries are equipped with an AC voltage selector switch on the rear panel. Refer to the following paragraph for the proper setting of this switch.

AC VOLTAGE SELECTION

This unit operates on 115/230 V AC. The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.



Move switch lever to match your line voltage with a

CONTENTS

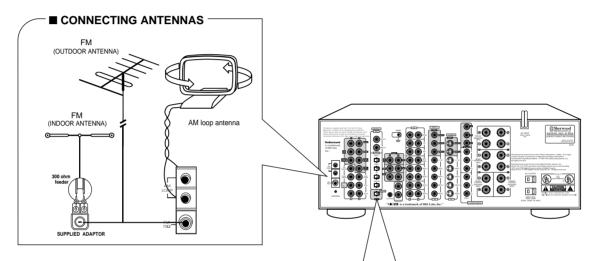
Introduction
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OPERATING COMPONENTS WITH REMOTE CONTROL
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Using the OSD
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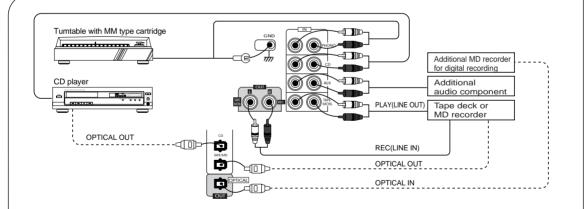


System Connections

- When making system connections, please be certain the AC cord is not plugged into an AC outlet.
- When making connections between components, please be sure to connect the white RCA plugs to the L (left) and the red RCA plugs to the R (right) jacks respectively.
- Change the position of the FM indoor antenna until you get the best possible reception of your favorite FM stations.
- A 75 Ohm outdoor FM antenna may be used to further improve the reception. Disconnect the indoor antenna before connecting the outdoor antenna.
- 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.
- Make all connections firmly and correctly. Failure to do so can cause loss of sound, noise or damage to the receiver.
- If the electricity fails or the AC cord is left unplugged for about two weeks, all operating parameters in the unit's memory will be lost. Should this happen, you must enter them again.



CONNECTING AUDIO COMPONENTS

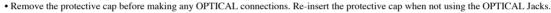


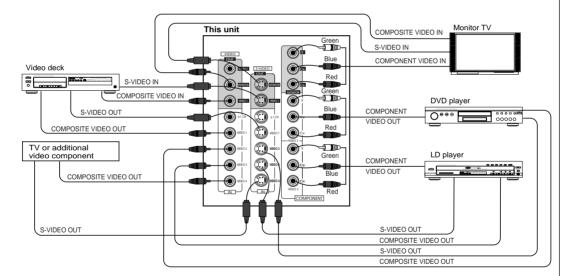
- The AUX jacks may be connected to an additional audio component such as a CD player, a tape deck, etc.
- Connect the TAPE MONITOR IN/OUT jacks to the PLAY(LINE OUT)/REC(LINE IN) jacks of a tape deck or MD recorder.
- The TAPE MONITOR IN/OUT jacks may also be connected to the LINE OUT/IN jacks of an optional graphic equalizer.
- If a digital recorder or other component with OPTICAL DIGITAL IN/OUT jacks is connected to the corresponding jacks of this unit, you can playback and/or record the high quality sound of CD's, etc. without analog conversion or degradation.
- Notes: • The phono input of your receiver is not suitable for the direct connection of a turntable with a Moving Coil (MC) cartridge. If you have
- a MC cartridge, use a separate head amplifier of step-up transformer between the turntable and the receiver.
- Not all of the commercially available Fiber Optic cables are suitable for use with this receiver. If you have a question as to the
- suitability of any cable, please check with your dealer or a qualified service organization.
- Remove the protective cap before making any OPTICAL connections. Re-insert the protective cap when not using the OPTICAL jacks.



■ CONNECTING VIDEO COMPONENTS This unit Video decl -6)(DVD playe 6 6 0*** 1 Ċ AUDIO PLAY(OUT) - M LD playe -10 ń - 100 AUDIO OUT - 6 10 - MD AUDIO OUT TV or additional 4 DDC AUDIO OUT video component OPTICAL OUT OPTICAL OUT COXIAL OUT COXIAL OUT AUDIO REC (IN)

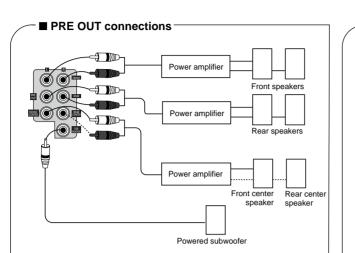
- This receiver has two kinds of digital jacks (OPTICAL, COAXIAL), three kinds of video jacks (COMPONENT, S-VIDEO, and COMPOSITE) as well as analog audio jacks for making connections with your video equipment. Depending on the capabilities of your video components, hook them up to the corresponding input/output jacks for VIDEO 1 to 4 respectively. Notes:
- When making COAXIAL DIGITAL connections use 75 Ohm Cable. Do not use standard audio patch cords.
- Not all of the commercially available Fiber Optic cables are suitable for use with this receiver. If you have a question as to the suitability of any cable, please check with your dealer or a qualified service organization.





- This unit incorporates COMPONENT as well as S and composite(normal) VIDEO jacks.
- For your reference, the excellence in picture quality is as follows: "COMPONENT" > "S" > "COMPOSITE".
- When making COMPONENT VIDEO connections, connect "Y" to "Y", "CB" to "CB" (or "B-Y", "PB") and "CR" to "CR" (or "R-Y", "PR").
- Signals inputted into the COMPONENT VIDEO IN jacks will be outputted in only the MONITOR COMPONENT VIDEO OUT jacks.
 A signal inputted into the composite(normal) VIDEO IN jack will be outputted in the composite(normal) VIDEO OUT jacks.
- However, in case of S-VIDEO signal, a signal inputted into the S-VIDEO IN jack will be outputted in the S-VIDEO OUT jacks and the MONITOR composite(normal) VIDEO OUT jack besides. Notes
- The on-screen display function and recording the component video signals are not available when using the COMPONENT VIDEO connections.
- When Sherwood DVD player such as V-756, etc. is connected to the DIGI LINK jack for system control, you should connect the DVD player to the "VIDEO 2" jacks of this unit.
- Because, if the PLAY button, etc. is pressed on the DVD player, the VIDEO 2 is automatically selected as an input source on this unit and the playback, etc. starts.

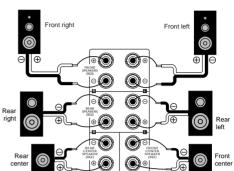




• Use these jacks when adding additional amplifiers.

- Connect the PRE OUT jacks to the powered speakers or the power amplifiers connected to speakers respectively.
- To emphasize the deep bass sounds, connect a powered subwoofer.
- Only in case of enjoying 6.1 channels of digital audio, make the rear center connections between the audio equipment.

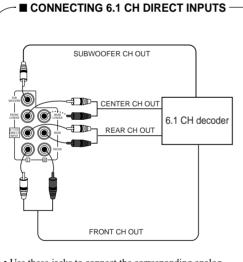
■ CONNECTING SPEAKERS



- The speaker terminals are designed to accept either bare wire or banana plugs.
- If using bare wire, take care to not allow the + and wires to touch or short.
- Connect the speaker wires firmly and correctly according to the channel and position. Observe the proper polarity (+ and -).
- To reproduce the center rear signal in 6.1 channel material, connect a rear center speaker. Otherwise the center rear speaker is not necessary.
- This receiver is designed for use with speakers rated at 8 ohms impedance or above.

0 0

@Shery

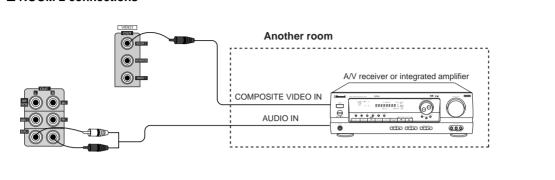


- Use these jacks to connect the corresponding analog outputs of an external 6.1(or 5.1) channel decoder or to a DVD player with 6.1(or 5.1) channel outputs.
- In the case of a 5.1 channel decoder or DVD player, do not make a connection to the rear center input. (For more details, please see the operator's manual of the component to be connected.)

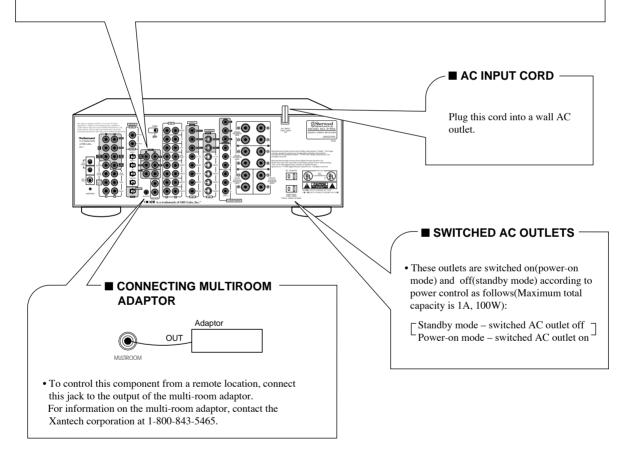
õ õ 000 ۲ õ 00000 ۲ • 0 0 [] CONNECTING SYSTEM CONTROL Sherwood component with DIGI LINK II or III CD player System control Tape deck cord ۲ Graphic equalizer DVD player · Connect this jack to the DIGI LINK jack of the external Sherwood component that uses the DIGI LINK II or III remote control system.



─ ■ ROOM 2 connections

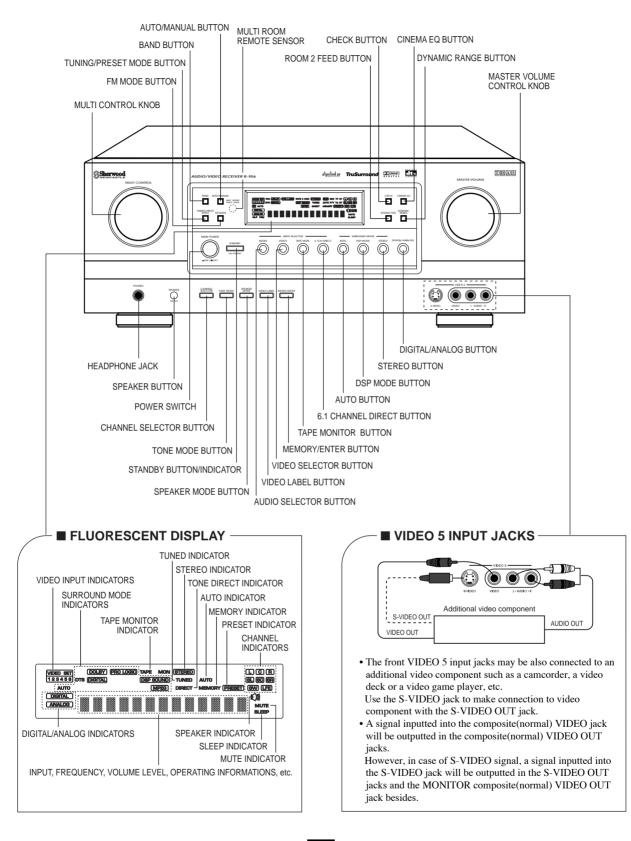


- If another A/V receiver or integrated amplifier, etc. is connected to these jacks, you can play a different program source in another room as well as one source in the main room at the same time. (For details, refer to "MULTI SOURCE PLAYBACK" on page 28).
- When the multiroom adaptor is connected, the ROOM 2 functions is more convenient. Note:
- Use high quality connection cords in such a way that there is no humming or noise.









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Universal Remote Control

Note: For additional Universal Remote Control programming instructions and manufacturer's codes, please refer to the operating manual enclosed with this Universal Remote Control.

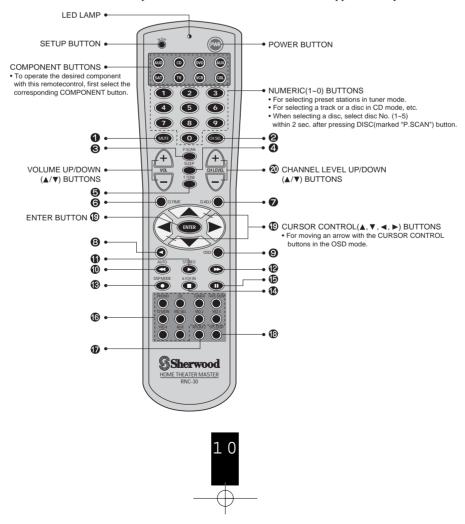
- This remote control has 3 operating modes as follows;
- OSD (On-Screen Display) Mode: Allows you to see information about basic operation of this unit on your TV or monitor and to operate this unit by moving an arow(cursor) that appears on the TV screen.
- Sherwood Mode: Allows you to operate this unit and other Sherwood components like cassettle decks, CD players, etc. via the remote control. (To operate other Sherwood components, please make the Digi Link connections between the components.)

• Non-Sherwood Mode: Allows you to operate other brands of audio and video components that are remote compatible. Notes:

- The setup code for each component must be entered before the remote will operate the component.
- For setup codes (manufacturer's codes), please refer to the "MANUFACTURER'S CODES" in the operator's manual that came with the remote control.
- The buttons may have different functions depending upon the chosen component and the operating mode.
- Please be sure to set the remote control to the correct component mode before trying to operate any component.

DIGI LINK SYSTEM REMOTE

- This section explains the basic functions for the Sherwood and the OSD modes. For the non-Sherwood mode, please refer to the operating manual that came with the remote control.
- All Sherwood components bearing the DIGI LINK (II or III) logo can be used with this remote control.
- To control associated Sherwood Digi LInk components, you must first make the DIGI LINK connections between the components.
- With the Sherwood Digi Link III system, pressing a transport control button such as PLAY, on a Sherwood CD player or tape deck will automatically engage that input on the receiver and then PLAY will start.
- The numbered buttons on the remote control have different functions in different modes. For details, please refer to the "FUNCTION TABLE for the NUMBERED BUTTONS" on the following page.
- Each time a button on the remote control is pressed, the buttons will illuminate for approximately 5 seconds.



	Component buttons to		AUD		AUX	(for DVD player)		AUX
Button symbol	control	(foi	r receiver)	(for CD player)	(for tape deck)	V-756, etc.("0633")	VD-4106, etc.("0591")	(for MD recorder
0	MUTE		MUTE	_	-	CLEAR	_	+10
0	CH SEL	CHANN	NEL SELECTOR	_	-	SEARCH	_	+100
0	P.SCAN	PRE	ESET SCAN	DISC	-	OPEN/CLOSE	RETURN	EJECT
4	SLEEP		SLEEP	_	-	DISPLAY	_	AUTO SPACE
6	T.TONE	TE	EST TONE	_	-	SET UP	REPEAT A<->B	DISPLAY
6	D.TIME	DE	ELAY TIME	REPEAT A<->B	DECK SELECTOR A	TITLE	SETUP	REPEAT
0	D.ADJ	DELAY ADJUST		INTRO SCAN	DECK SELECTOR B	MENU	CLEAR	RANDOM
8		_		_	REVERSE PLAY	REVERSE SKIP	DISPLAY	REVERSE SKIP
0	OSD	ON-SC	REEN DISPLAY	_	_	FORWARD SKIP	MENU	FORWARD SKIP
0	AUTO		AUTO	REVERSE SKIP	REWIND	REVERSE SEARCH	REVERSE SCAN	REVERSE SEARCH
0	STEREO	5	STEREO	PLAY	FORWARD PLAY	PLAY	PLAY	PLAY
®	Ð		_	FORWARD SKIP	FAST FORWARD	FORWARD SEARCH	FORWARD SCAN	FORWARD SEARC
ß	DSP MODE	DSP MODE		_	RECORD	RETURN	_	RECORD
12	6.1CH IN	6.1 CH DIRECT		STOP	STOP	STOP	STOP	STOP
Ð		_		PAUSE	PAUSE	PAUSE	PAUSE	PAUSE
		1	CD	_	_	AUDIO	_	EDIT CANCEL
-	TUNER	N P	TUNER	_	_	ANGLE	ANGLE	DELETE/CLEAR
-	TAPE MON	U T	TAPE MONITOR	_	_	ZOOM	_	CHARACTER/PROGRA
-	VID SEL	S	VIDEO	_	_	REPEAT A<->B	_	RECORD INPUT
-	VID2	E	_	_	_	RANDOM	_	AUTO/MANUAL
16	VID.3	E	_	_	_	INTRO SCAN	_	SPACE/CHECK
-	VID.4	Т	_	_	_	MARKER	_	TITLE INPUT
ŀ	AUX	O R	AUX	_	_	SUBTITLE	_	TITLE SEARCH
-	PHONO		PHONO	_	_	SUBTITLE ON/OFF	SUBTITLE	EDIT
-	T2 MON			_	_	REPEAT MODE	_	RECORD MODE
Ð	ROOM 2	RO	OM 2 FEED	_	_	PROGRAM	_	SET
ß	SYS DISP			_	_	TIME	_	ENTER
		CURSOR UP(_	_	_	(PAUSE)	_
()		CURSOR DOWN(_	_	_	SLOW FORWARD	_
	\triangleright	CURSOR RIGHT()		_	_	_	(FORWARD SCAN)	_
	Ă	CURSOR LEFT(_	_	_	(REVERSE SCAN)	_
	ENTER	ENTER		_	_	_	ENTER	_
	<u>(+)</u>	CH LEVEL UP(_	_	_	FORWARD SKIP	_
20			VEL DOWN(_	_	REVERSE SKIP	

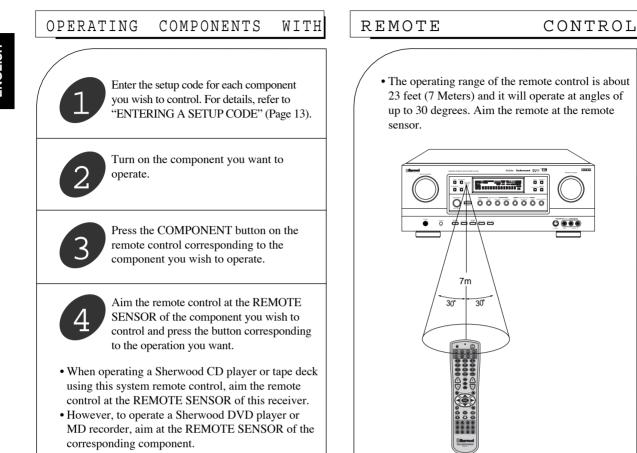
■FUNCTION TABLE of the NUMBERED BUTTONS.

Notes:

• Some functions for CD player, tape deck, etc. may not be available.

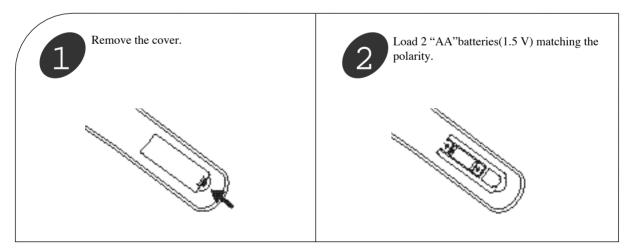
• For details about functions, refer to the operating instructions of each component.





LOADING BATTERIES

- Replace the batteries when the LED lamp flickers twice when any button is pressed.
- Replacing the batteries will restore proper operation and the memorized contents will be retained.



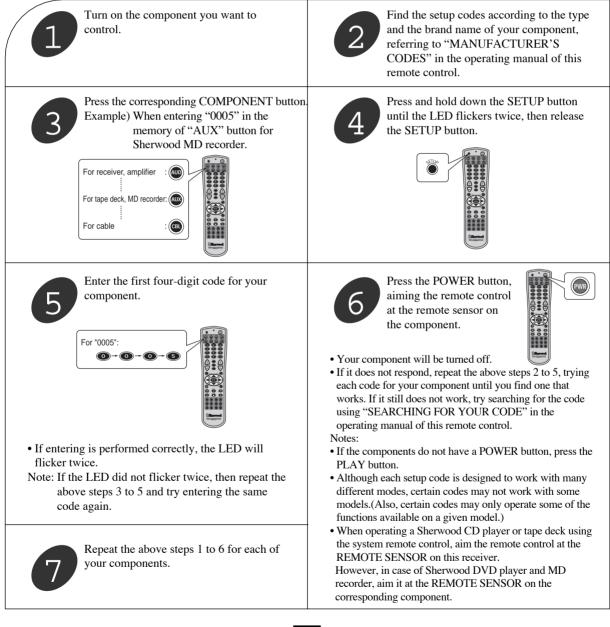


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ENTERING A SETUP CODE

• This remote control can control up to eight different components.

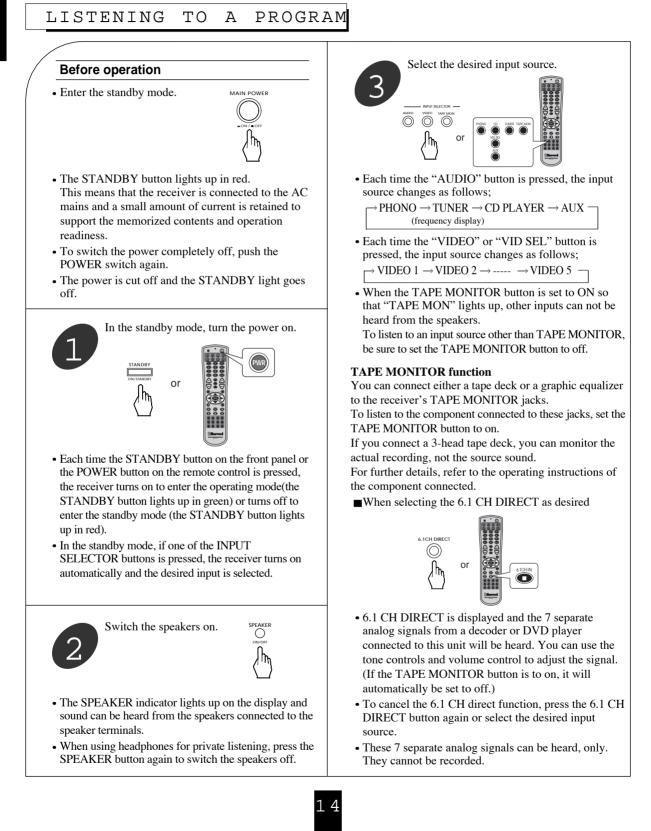
- Before operating audio and video components using the remote control supplied with this unit, the setup code for each component must be entered.
- For system remote control operation, because "0001" is stored previously in the memory of the component button "AUD" as its factory setup code for this receiver, "0004" in the memory of "AUX" for Sherwood tape deck, "1068" in the memory of "CD" for Sherwood CD player and "0633" in the memory of "DVD" for Sherwood DVD player such as V-756, etc., entering its code for each Sherwood component is not necessary except in case that its code does not work. However, for Sherwood MD recorder such as MD-7900R, etc., "0005" should be stored in the memory of "AUX" button and for some Sherwood DVD player such as VD-4106, etc., "0591" as a setup code for DVD player should be stored in the memory of "DVD" button.
- Note: These codes for Sherwood components, including this receiver, are not listed in "MANUFACTURER'S CODES" in the operating manual of this remote control.

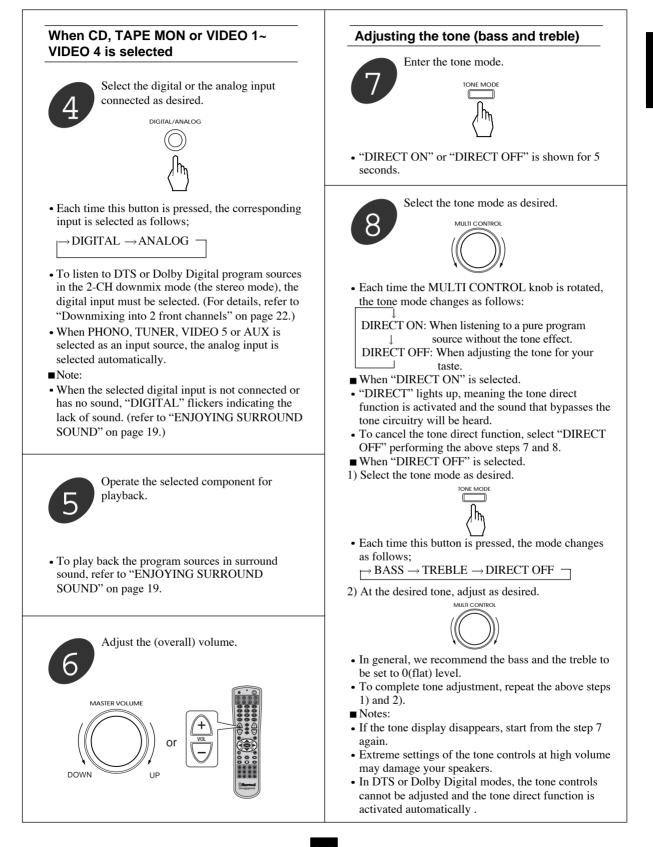




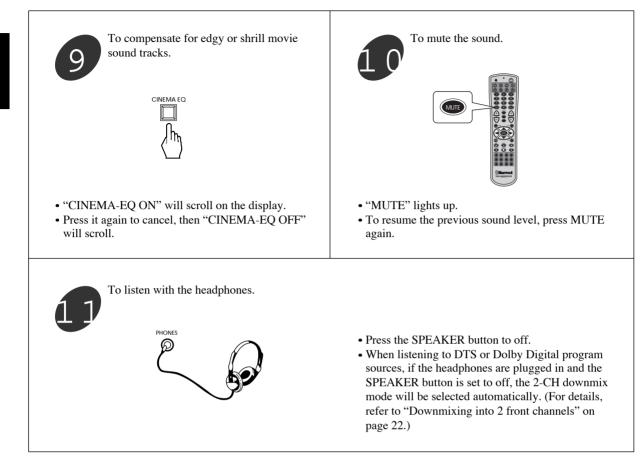
Operations

Note : Before operating this receiver with the supplied remote control, refer to "Universal Remote Control" on page 10 for details about operation.





ENGLISH





SURROUND SOUND

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

Surround modes

This unit has 9 different surround modes to allow you to enjoy surround sound with various program sources: DTS, DOLBY DIGITAL, DOLBY PRO LOGIC, THEATER, HALL, STADIUM, CHURCH, 6.1 CH SURROUND, TruSurround.

DTS (Digital Theater System) : Allows you to enjoy 5.1(or 6) discrete channels of high quality digital audio from DTS program sources bearing the " **Trademark such as laser** " trademark such as laser

discs, DVD and compact discs, etc. DTS Digital Surround delivers up to 6 channels of transparent audio(which are identical to the original masters) and results in exceptional clarity throughout a true 360° sound field.

- Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942 and other world-wide patents issues and pending. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.
 © 1996 Digital Theater Systems, Inc. All rights reserved.
- Note : The DTS program sources should be played back in the DTS mode. If not, no sound or sound like continuous noise will be heard.

DOLBY DIGITAL : Allows you to enjoy up to 5.1 channels of digital surround sound from Dolby Digital program sources bearing the "**DIGITAL**" trademark such as laser discs, DVD's etc.

Dolby Digital provides better sound quality, improved dynamic range and great sense of direction, compared with the conventional Dolby surround. Now, you are able to enjoy real Home Theater sound in your home.

DOLBY PRO LOGIC : This unit incorporates the Dolby Pro Logic Surround Decoder which has the same functions for playback as movie theaters and gives a theater-like experience in your home, naturally reproducing the audio sound field. Use with Dolby Pro Logic program sources bearing the "**TODLEY SURROUND**" trademark such as video cassette tapes or laser discs.

- Manufactured under licence from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. © 1992-1997 Dolby Laboratories. All rights reserved.
- **THEATER :** This mode provides the effect of being in a movie theater when watching a movie source that has a stereo sound track.
- **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 an expansive sound field. For sources like a rock concert or athletic event you can enjoy a true stadium effect.
- **CHURCH:** This mode provides the ambience of a church for baroque, string orchestral and choral group music.
- **6.1 CH SURROUND :** This mode extracts the rear center signal from the rear left and right signals and reproduce it as well as the original multichannel signals during playback of 5.1 CH program sources such as DTS, Dolby Digital, etc.
- **TruSurround:** TruSurround employs sophisticated digital processing to create the illusion of five "phantom" speakers. Therefore, this mode allows you to experience a realistic multichannel experience from any multichannel audio source and a original three-dimensional sound field from any stereo audio source, through just a single pair of front speakers.
- TruSurround and the (•) symbol are trademarks of SRS Labs, Inc. TruSurround technology is incorporated under license from SRS Labs, Inc.
- When the 6.1 CH DIRECT INPUTS are connected to the 6.1(or 6) CH decoder for a surround sound(such as Dolby Digital or DTS, etc.), you can enjoy the corresponding surround sound, too. (For details, see the operator's manual of the component to be connected.)



Delay time

When the (front)center speaker or the rear speakers is(are) closer to the listener than the front speakers, the sound form the (front)center speaker or the rear speakers can arrive at the listener's ears earlier than the sound from the front speakers.

In this case, the imaging is not as sharp and stable as it could be.

For audible improvement, the sound from (front)center speaker can be delayed with the center delay time setting to synchronize the sound from the front and the (front)center speakers and the sound from the rear speakers can be also delayed with the rear delay time setting so that the sound from the front and the rear speakers will be heard at the same time.

The optimum delay time depends on the speaker placement in your room.

• It is adjustable in Dolby Digital and Dolby Pro Logic modes only.(For details, refer to "In Dolby Digital or Dolby Pro Logic mode, adjusting delay times of the speakers" on page 21.)

Speaker placement

To obtain the best surround sound effect in your home, place the speakers as follows;

- Front speakers: Place each front speaker about 1 m (40'') from the TV set.
- Front Center speaker: Place the center speaker either above or below the TV set to assure a good match between the audio and video of the center channel program.
- Rear speakers: Place the rear speakers approximately 1 m above the ear level of a seated listener on the direct left and right of them or slightly behind.
- Subwoofer: Reproduces powerful deep bass sounds. Place a powered subwoofer anywhere in the front as desired.
- Rear center speaker: Place the rear center speaker behind a seated listener at even level with the rear speakers.
- The ideal surround system needs all the speakers listed above.(However, the rear center speaker can be used for 6.1 CH Surround(as a surround mode) or 6.1 CH DIRECT(as an input source) only.)

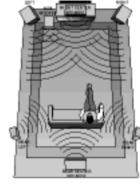
To accurately reproduce DTS digital surround, center and rear speakers as well as front speakers should be full range speakers.

• To enjoy the surround sound best, the speakers to be connected are as follows;

Speakers Modes	6.1 CH SURROUND	DTS	Dolby Digital	Dolby Pro Logic	TruSurround	Other Surround	Stereo	6.1 CH DIRECT
Front	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Front Center	Yes	Yes	Yes	Yes	-	Yes	-	Yes
Rear	Yes	Yes	Yes	Yes	-	Yes	-	Yes
Rear Center	Yes	-	-	-	-	-	-	Yes
Subwoofer	Yes	Yes	Yes	Optional	Optional	Optional	Optional	Yes

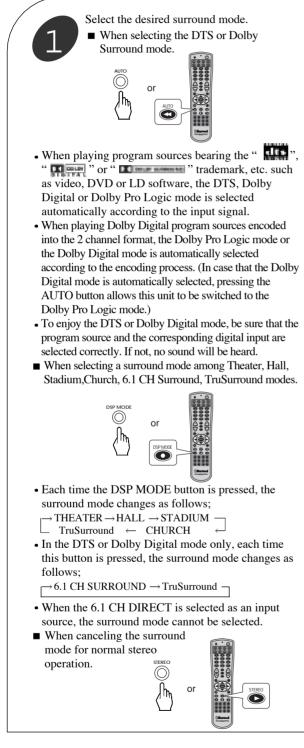
Note: To avoid interference with the TV picture, use only magnetically shielded front left, right and center speakers.





ENJOYING SURROUND SOUND

• Surround sound effect will not work properly if the signal passes through a graphic equalizer. Please refer to your equalizer operating instructions for guidance on switching off (or defeating) the equalizer.



Adjusting the speaker settings

- This receiver is equipped with circuitry that allows the use of a wide range of speaker systems.
- This circuitry works be redirecting the bass frequencies or the entire channel to speakers that are capable of reproducing them.
- When a Large or full range speaker capable of deep bass response is used for one of the channels, that channel should be set to L.
- When a small or satellite speaker with limited bass capability is used, that channel should be set to S. Deep bass from that channel will be redirected to the main left and right speakers or to the subwoofer.
- When there is no speaker available, that channel should be set to N. All the information in that channel will be redirected to other available speakers.



Press the SPEAKER MODE button for more than 2 seconds to enter the front-center-rear speaker mode.



- The front-center-rear speaker setting is displayed.
- When the 6.1 CH DIRECT is selected as an input source or "ANALOG" is selected as signal input in the stereo mode, the speaker mode function cannot be available.



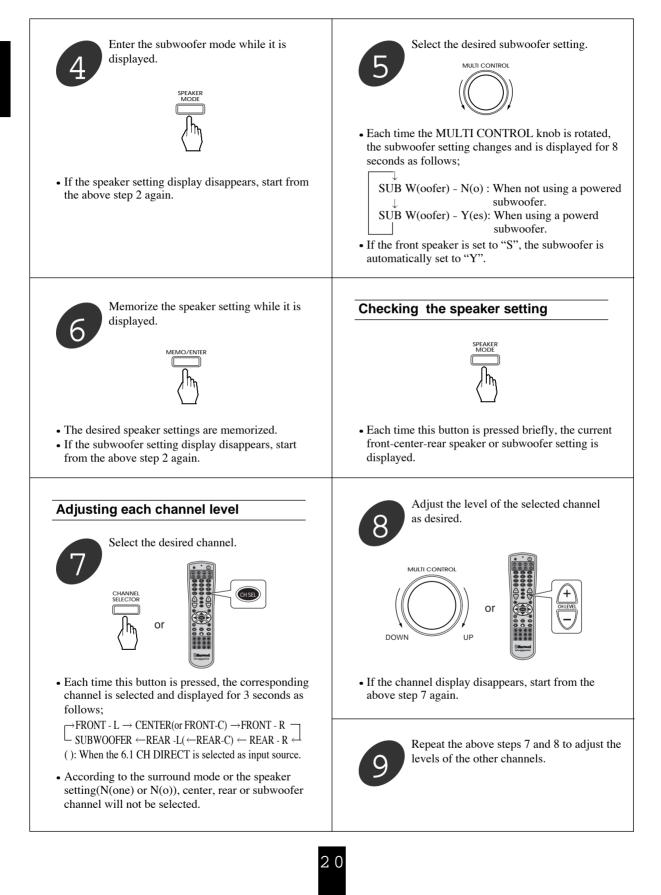
Select the desired speaker setting.



- Each time the MULTI CONTROL knob is rotated, one of 9 different speaker settings is selected and displayed for 8 seconds as follows; FL-CL-RL, FL-CL-RN, FL-CN-RL, FL-CS-RN, FL-CN-RS, FS-CS-RS, FS-CS-RN, FS-CN-RS and FL-CS-RS
- F stands for Front Speakers, C for Center Speaker, R for Rear Speakers, L for Large, S for Small and N for None.
- Large Speakers are capable of deep bass response and typically have one driver with a cone that 10" (25 cm) or larger.



ENGLISH



Adjusting each channel level using test tones

• In the surround modes only other than the TruSurround mode, the volume level of each channel can be adjusted using the test tone function. Note: When 6.1 CH DIRECT is selected as an input source, the test tone function is not abailable.



Engage the test tone mode by pressing the TEST TONE button on the remote control.



- The test tone will cycle from channel to channel and will be heard from each speaker for 2 seconds as follows:
 → Front Left → Center → Front Right →
 - SUBwoofer \leftarrow Rear Left \leftarrow Rear Right \leftarrow
- Speakers set to "N" are not available and will not be heard.

In Dolby Digital or Dolby Pro Logic mode, adjusting delay time of the speakers

In the Dolby Digital mode, the optimum performance of your system occurs when the sound from all five speakers arrives at your primary listening position at the same time. If all speakers are equidistant from the main listening position, set the following delay.

(Front) center delay time: 0 mS, Rear delay time: 0 mS

- If the (front) center speaker is closer to your prime listening position than the average distance to the left and right main speakers add 1 mS of (front) center channel delay for each foot of difference. The maximum is 5 mS.
 If the surround speakers are closer to your main listening
- position than the main left and right speakers add 5 mS of surround channel delay for each 5 feet of difference. The maximum is 15 mS.

In Dolby Pro Logic mode, rear channel delay can be adjusted to add spaciousness to the presentation and to minimize any sibilant leakage into the surround channels. If the surround speakers are the same distance from your primary listening position as your main left and right front speakers, set the Rear Delay time at 15 mS.

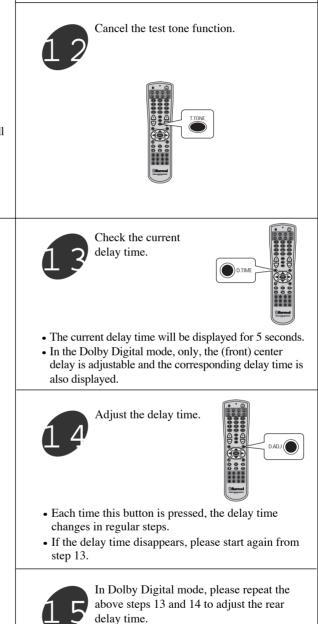
If the surround speakers are closer to your main listening position than the main left and right speakers, your receiver allows you to optimize the arrival time of the sound from your speakers. This can help focus the audio image and add enjoyment to your home theater experience. Measure the distance from the prime listening position to

each of the speakers to the nearest foot.

• Add 5 mS of surround channel delay for each 5 feet of difference. The maximum is 30 mS.



Perform the adjustments in steps 7 to 9 in "Adjusting each channel level" until the sound from each speaker is perceived to be equally loud.

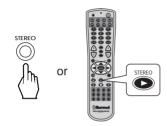


• In the 6.1 CH Surround mode while playing the Dolby Digital program source encoded into multichannel format only, the delay time can be adjusted, too.

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Downmixing into 2 front channels

- Allows the multichannel DTS or Dolby Digital signal to be reproduced through only two speakers or through headphones.
- When playing the DTS or Dolby Digital program sources, press the STEREO button.



• The "STEREO" and "DTS" or "DOLBY DIGITAL" indicators light up indicating that the program has entered the 2-CH downmix mode and the 5 discrete channels (left front, center, right front, left surround and right surround) are mixed down to the 2 front channels.

- The cancel the 2-CH downmix mode, select the desired surround mode.
- When play is stopped or interrupted, etc., the 2-CH downmix mode is not canceled even though the "STEREO" and "DTS" or "DOLBY DIGITAL" indicators go out.
- DTS and Dolby Digital multi-channel program material will be heard automatically in the 2-CH downmix mode if headphones are plugged in and the SPEAKER button is set to off. However, only the DTS or DOLBY DIGITAL indicator will be illuminated. Unplugging the headphones and setting the SPEAKER button to on will restore the previous mode.



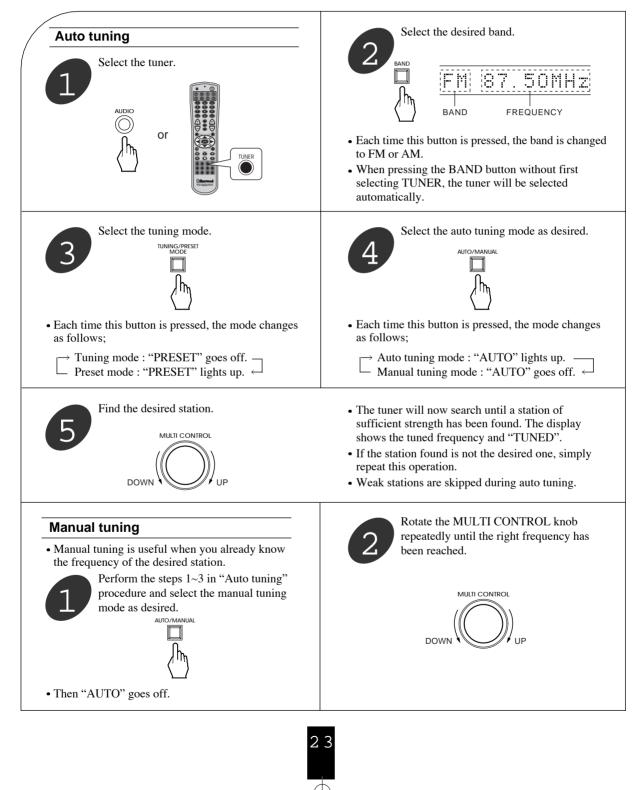
LISTENING TO RADIO

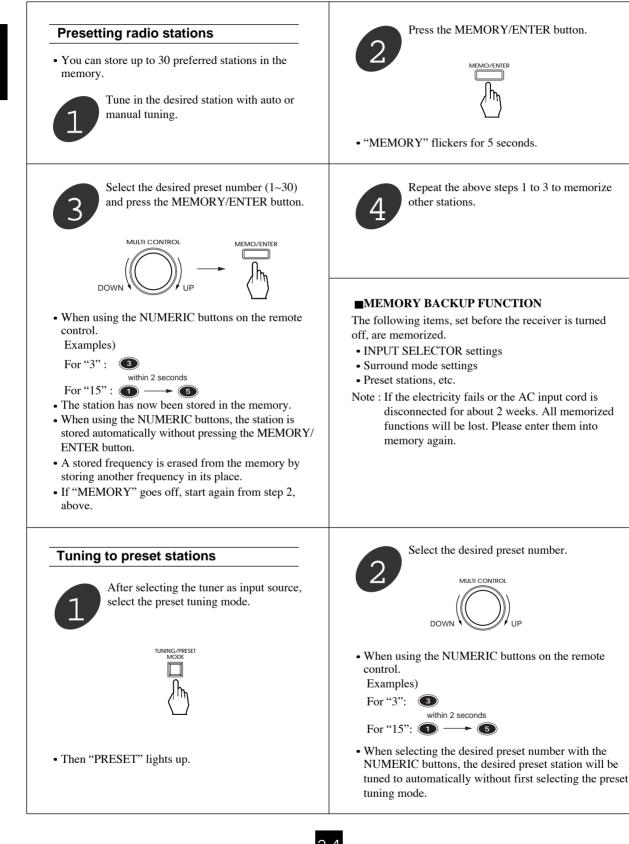
• For some countries in the southeast asia, etc., AM frequency step of 10 kHz may be changed to 9 kHz according to the countries. To change to 9 kHz, do the following procedure.

1. Press the STANDBY button on the front panel while receiving AM broadcasts.

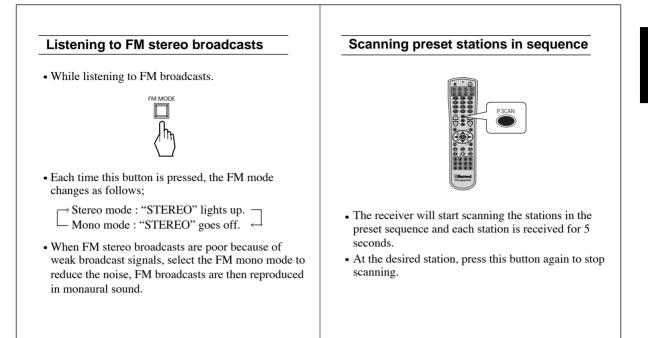
2. Press the STANDBY button while keeping the BAND button on the front panel pressed.

To change to 10 kHz, do this procedure again.





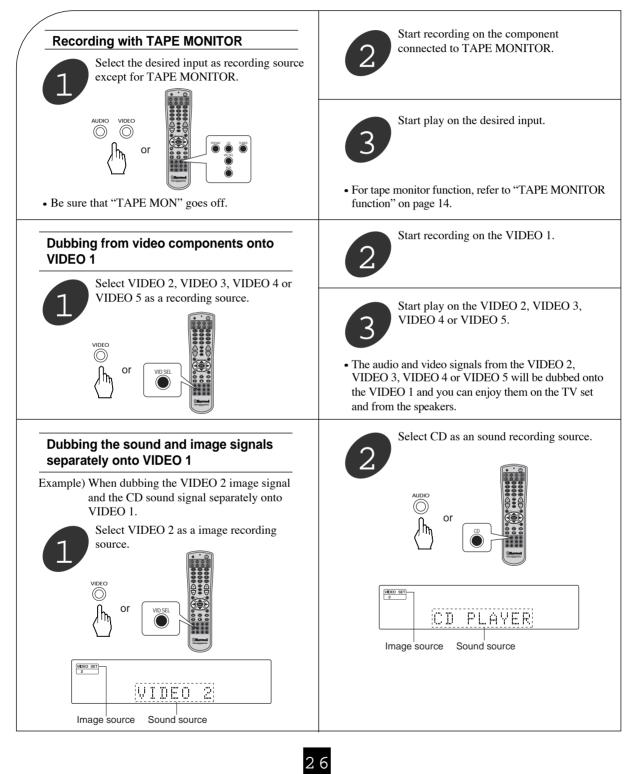
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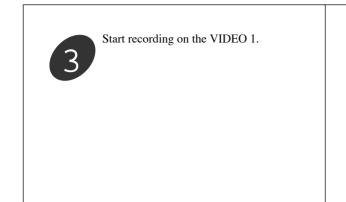


RECORDING

- The analog signals from the 6.1 CH DIRECT inputs as well as the digital signals from the coaxial or optical digital input can be heard but cannot be recorded.
- The volume, tone (bass, treble) settings,etc. have no effect on the recording signals.



ENGLISH



Start play on the VIDEO 2 and the CD respectively.

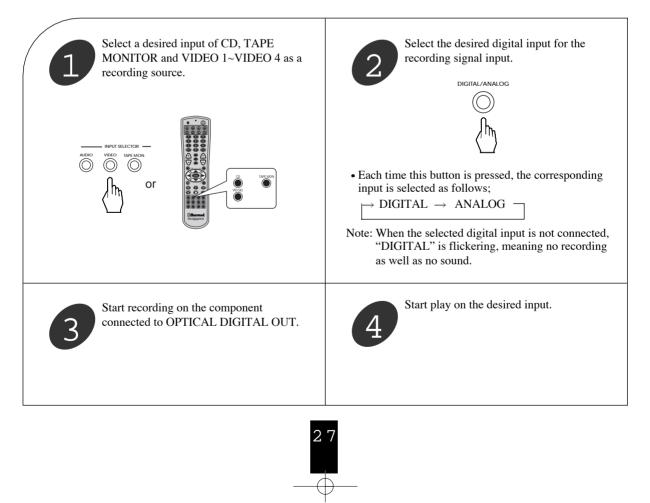
• The audio signal from the CD and the video signal from the VIDEO 2 will be dubbed and you can enjoy them on the TV set and from the speakers. Note: Be sure to observe the order of the above steps 1 and 2.

DIGITAL AUDIO RECORDING WITH

 When the OPTICAL DIGITAL OUT of this receiver is connected to the OPTICAL DIGITAL IN of an MD or CD recorder, you can enjoy high-quality sound of digital recording, without converting the original signals. Refer to "CONNECTING AUDIO COMPONENTS" and "CONNECTING VIDEO COMPONENTS" on pages 5 and 6 and the operator's manual of the MD or CD reocrder.

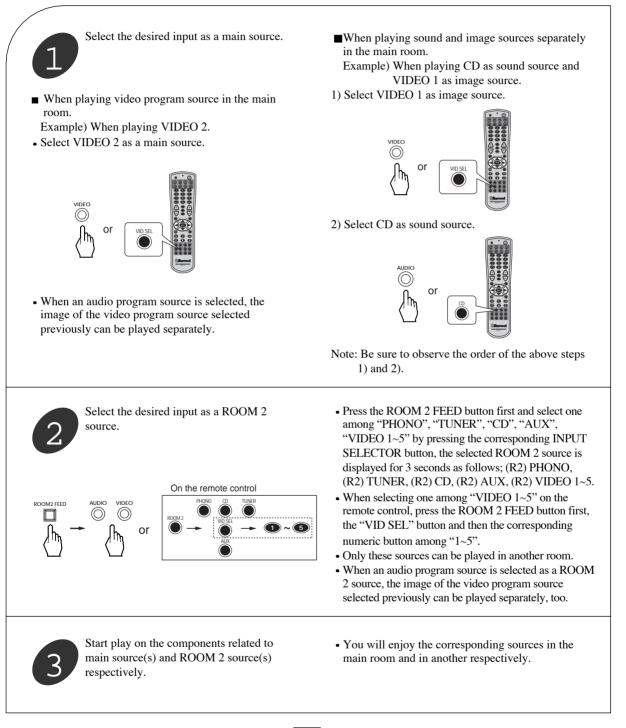
Notes:

- 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.



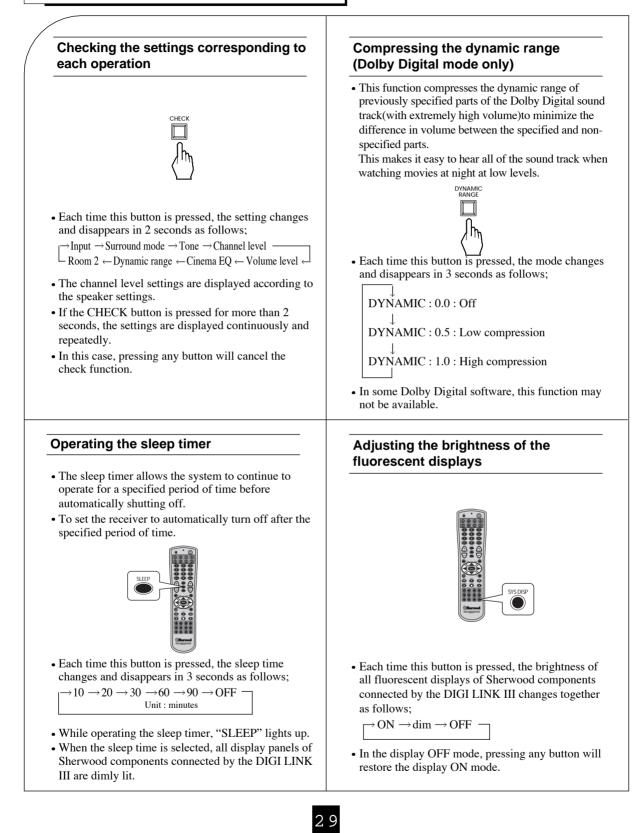
MULTI SOURCE PLAYBACK

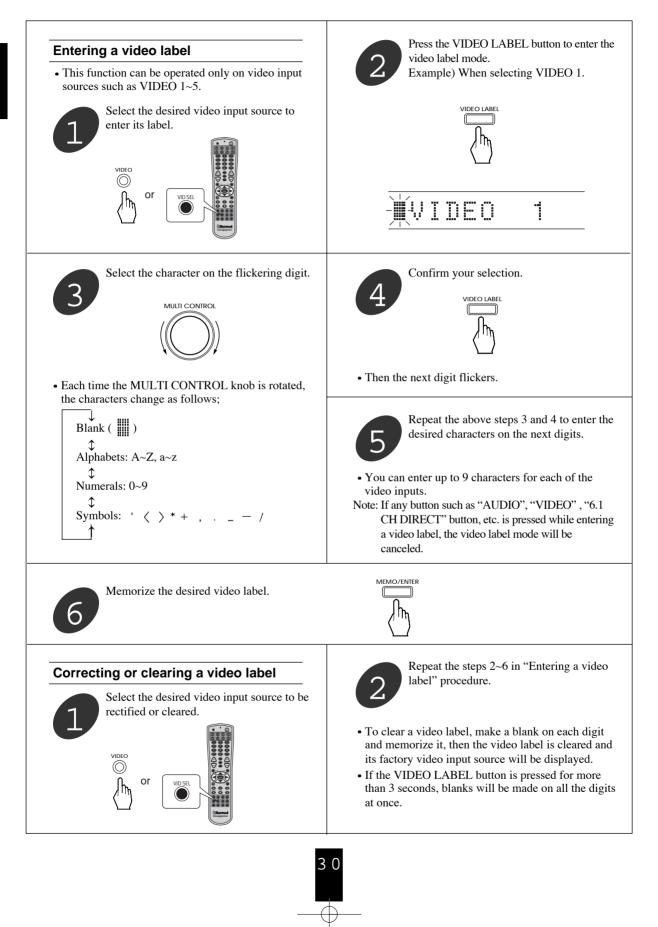
- This function allows enjoying one source in the main room and playing another in a different room at the same time.
- The analog signals from the 6.1 CH DIRECT inputs as well as the digital signals from the coaxial or optical digital input cannot be outputted in the ROOM 2 OUTs, meaning no playback in a different room.





OTHER FUNCTIONS





Using the OSD_

This unit incorporates an OSD(On-screen display) function to provide information about basic operation of this unit and to simplify the setup procedures.

The OSD function uses a monitor TV connected to this unit as a display and has two kinds of display modes such as current status display and menu screen.

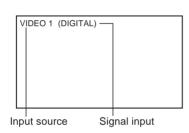
- Notes: When the component video connections are made between the monitor TV and this unit, the OSD function is not available.
 - Any on-screen display shown on the monitor TV will not be recorded onto VIDEO 1.
 - In some countries, this unit allows you to select either NTSC or PAL color system as video format. If it is different from your video components, video softwares, etc., in the standby mode, press the STANDBY button while keeping the AUTO/MANUAL button pressed on the front panel, then the video format is changed to the NTSC or the PAL color system.

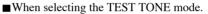
However, it is fixed to NTSC color system in other countries.

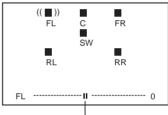
CURRENT STATUS DISPLAY

This mode shows the status corresponding to each operation.

- The on-screen display will automatically disappear in 5 seconds.
- For examples, there are 2 status displays as follows.
- ■When selecting the desired input source.





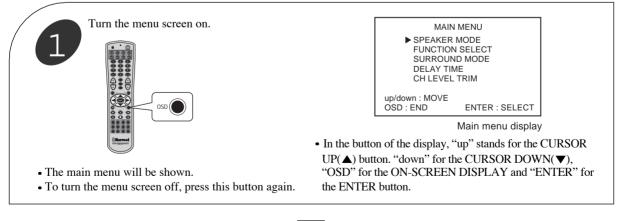


Channel level or overall volume display

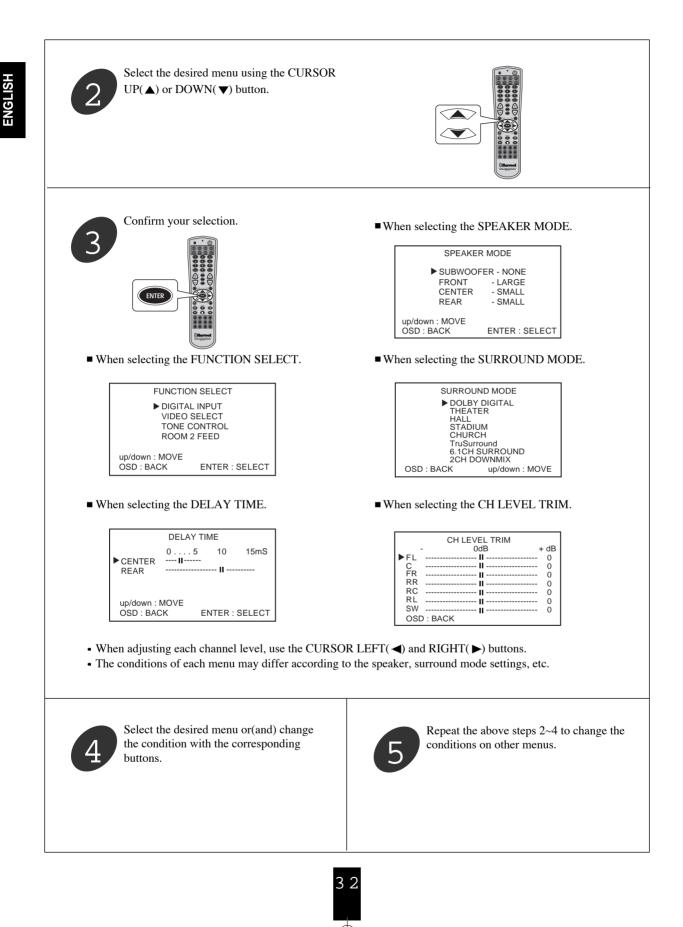
- When adjusting each channel level or overall volume, the volume level display will be shown.
- The test tone display will be shown until the test tone mode is canceled.

MENU SCREEN

- This function simplifies the setup procedures for items such as the speaker mode, function select, surround mode, delay time and channel level trim.
- The menu screen operation is performed easily with the CURSOR control(▲, ▼, ◄, ►), ON SCREEN DISPLAY and ENTER buttons.
- The "3", "7", "8" and "9" of the NUMERIC buttons do also work as cursor control. In this case, the "3" button stands for the CURSOR UP(▲) button, the "7" for the CURSOR LEFT(◄), the "8" for the CURSOR DOWN(▼) and the "9" for the CURSOR RIGHT(►).







Troubleshooting Guide

If a fault occurs, run through the table below before taking your unit for repair.

If the fault persists, attempt to solve it by switching the unit off and on again. If this fails to resolve the situation, consult your dealer. Under no circumstances should you repair the unit yourself as this could invalidate 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. The digital input is not selected. 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 digital input . Select the desired input source correctly. Make connections correctly. 		
No sound from the rear speakers	 Surround mode is switched off.(normal stereo mode) Master volume and rear level are too low. Monaural source is used. Rear speaker setting is "N". 	 Select a surround mode. Adjust master volume and rear level. Select a stereo or surround source. Select the desired rear speaker setting. 		
No sound from the (front) center speaker	 TruSurround, normal stereo mode, etc is selected. (Front) center speaker setting is "N". Master volume and center level are too low. 	 Select the desired surround mode. Select the desired (front) center speaker setting. Adjust master volume and center level. 		
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.		
A video label cannot be displayed.	• Malfunction due to external influences such as static electricity, etc.	• Clear it using "To clear a video label". (Refer to "Correcting or clearing a video label" on page 30)		
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 Ω, THD 0.2%, 40 Hz~20 kHz	
• Total harmonic distortion, 8 Ω, 120 W, 1 kHz	
Intermodulation distortion	
60 Hz : 7 kHz = 4 : 1 SMPTE, 8 Ω, 120 W	
Input sensitivity/impedance	
Phono (MM)	
Line (CD, TAPE, VIDEO)	
• Signal to noise ratio, IHF "A" weighted	
Phono(MM)	
Line (CD, TAPE, VIDEO)	
Frequency response	
Phono (MM), RIAA, 30~20,000 Hz	±1.5 dB
LINE (CD, TAPE, VIDEO), 10~110,000 Hz	
Output level	
TAPE REC, 1 kΩ	
PRE OUT(Front, Rear, F-Center, R-Center, Subwoofer), 1 kΩ	
Bass/Treble control, 100 Hz/10 kHz.	±10 dB
Surround mode, only channel driven	
Front power output, 8 Ω, 1 kHz, THD 0.7 %	
Center power output, 8 Ω, 1 kHz, THD 0.7 %	
Rear power output, 8 Ω, 1 kHz, THD 0.7 %	
- DICITAL AUDIO SECTION	
DIGITAL AUDIO SECTION	22 44 1 49 0(11)
Sampling frequency	
• Digital input level Coaxial, 75 Ω	0.5 Мага
Optical, 660 nm	-15~-21 dBm
■ VIDEO SECTION	
Video format	NTSC
• Input sensitivity(=Output level), 75 Ω	
Video(Composite (normal))	1 Vp-p
S-Video(luminance signal)	
(chrominance signal)	
Component video(R-Y signal)	
(B-Y signal)	
(Y signal)	1.0 Vp-p
■ FM TUNER SECTION	
	97.5 109 MU
Tuning frequency range Haple consistivity. TUD 2 (% S/N 20 dP)	
• 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, 20 Hz~15 kHz Stereo separation, 1 kHz	
Capture ratio	
IF rejection ratio	
AM TUNER SECTION	
Tuning frequency range	
10 kHz step	
9 kHz step	
Usable sensitivity	
Signal to noise ratio	
• Selectivity	
-	
GENERAL	
Power supply	
Power consumption	
Switched AC outlets	
• Dimensions(W×H ×D)	
• Weight(Net)	

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







R-956 AUDIO/VIDEO RECEIVER

5707-04723-001-0

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