marantz®

Model SR4002/SR5002 User Guide

AV Surround Receiver



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



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



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

WARNING

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

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

NOTE TO CATV SYSTEM INSTALLER:

This reminder is provided to call the CATV (Cable-TV) system installer's attention to Section 820-40 of the NEC which 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.

NOTE:

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 tuning 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.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT SAFETY INSTRUCTIONS READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- Read Instructions All the safety and operating instructions should be read before the product is operated.
- 2. Retain Instructions The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings All warnings on the product and in the operating instructions should be adhered to.
- 4. Follow Instructions All operating and use instructions should be followed.
- Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 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 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.
- 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 alternatingcurrent line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.



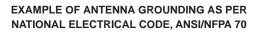
AC POLARIZED PLUG

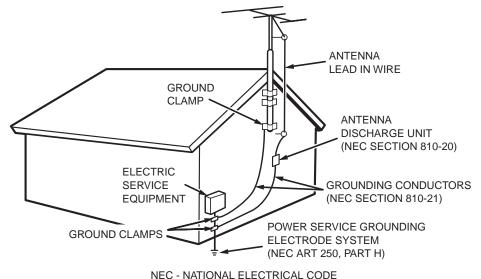
- Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- 14. Protective Attachment Plug The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
- 15. Outdoor Antenna Grounding If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antennadischarge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 1.
- 16. Lightning For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- 17. Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

- 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.
- Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e. If the product has been dropped or damaged in any way, and
- f. When the product exhibits a distinct change in performance this indicates a need for service.
- 22. Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 23. Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

- 24.Wall or Ceiling Mounting The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 25. Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

FIGURE 1





This Class B digital apparatus complies with CanadianCet appareil numérique de la Classe B est conformeICES-003.à la norme NMB-003 du Canada.

DECLARATION OF CONFORMITY

This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

100 Ma	rantz America, Inc. Corporate Drive, hwah, NJ, 07430, U.S.A. .: 630-741-0300
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Type of Product: AV Surround Receiver Model: SR4002/SR5002

INTRODUCTION

Thank you for purchasing the Marantz SR4002/SR5002 Surround receiver.

This remarkable component has been engineered to provide you with many years of home theater enjoyment. Please take a few minutes to read this manual thoroughly before you connect and operate the SR4002/SR5002.

As there are a number of connection and configuration options, you are encouraged to discuss your own particular home theater setup with your Marantz A/V specialist dealer.

ACCESSORIES CHECK

Before use, check the below accessories were included in the package.

Remote Controller



AM Loop Antenna

FM Antenna

AC Power Cable

Warranty Card USA × 1 Canada × 1

AAA-size batteries × 2



Microphone MC-10



Front AUX Jack Cover



User Guide



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FEATURES

This unit incorporates the latest generation of digital surround sound decoding technology such as Dolby Digital EX, Dolby Digital, DTS-ES (Discrete 6.1 and Matrix 6.1), DTS Neo:6 (Cinema, Music), Dolby Pro-Logic IIx (Movie, Music and Game), Circle Surround II (Cinema and Music).

In addition, Marantz has focused on the future. By utilizing pre-out jacks, 7.1 direct inputs and a RS-232C communication port (SR5002 only), the unit is tomorrow's technology, today!

This unit features a fully discrete 7 channel amplifier section capable of delivering 80 watts (SR4002)/90 watts (SR5002) of high-current amplification, for continuously clean and stable power into each of the 7 channels. It employs a massive EI power transformer in combination with oversized filter capacitors. This design configuration is capable of a clear and powerful reproduction of the most demanding action movie soundtracks and full range (multichannel) music discs. Through its ability to generate very high output voltages, the unit can easily drive the most demanding speakers with optimum results.

This unit incorporates the most advanced Digital Signal Processing circuitry, along with a Crystal® 192 kHz/24 bit D/A converter in each of the 7 channels. Independent power supply circuits are incorporated for the FL display, audio and video sections for maximum separation, clarity and dynamic range. Together with hand-selected customized components, all elements work in harmony to recreate the emotion, exactly as the artist had intended.

This unit is designed and engineered with extensive feedback from custom installation experts, dealers and consumers. It features multi-room/multisource, a RS-232C communication port (SR5002 only), heavy duty speaker binding posts and an extensive array of both analog and digital inputs / outputs. With 6 assignable digital inputs (including Front Aux), 3 assingnable component inputs (SR5002), 5 assignable digital input (SR4002), Super Audio CD Multi Channel (7.1 channel) direct inputs video convert system and OSD output versatility is taken to a stunning new level. Furthermore, the unit can output the OSD information through the Y/C (Svideo) and composite video outputs.

An easy-to-use universal remote controller allows full access to all of the operating functions and can be used for system operation as well.

This unit has Simple Setup function for easy setup. You can setup all speaker settings by just selecting your room size and the number of your speakers with Simple Setup function. You can also setup customized settings just like conventional AV amplifiers.

- Dolby Digital EX, Dolby Digital , DTS ES (Discrete 6.1, Matrix 6.1, Neo: 6)
- Dolby Headphone 2
- Dolby Pro Logic IIx (Movie, Music, Game)
- Circle Surround II (Movie, Music, Mono)
- HDCD decording
- MRAC (Marantz Room Acoustic Calibration) available
- Simple Setup Function
- Improved Station Name Input Method, 50 Presets
- Auto Adjust Function for Speaker Distance Settings (Delay Time)
- LIP.SYNC Funciton (Audio delay)
- 7 × 80 Watts (8 Ohm) (SR4002)/7 × 90 Watts (8 Ohm) (SR5002), Discrete Amplifiers
- High Power Current Feedback Circuitry
- Massive Energy Power Supply, Huge El Transformer, Large ELCO's.
- 192 kHz/24 bit Crystal® DAC for all 8 Channels
- 32 bit Digital Surround Processing Chipsets
- Large Heavy Duty Speaker Terminals for all Channels
- Auto Input Signal Detection
- Front AUX Input (Digital Camera, Portable DVD)
- Video Off Mode
- Set Up Menu via all Video Output (Composite, S-Video and Component video)
- Video convert system
- RS-232C Terminal for System Control (SR5002only)
- Universal remote control
- HDMI (Ver. 1.1)
- 3 Input/1 Output (SR5002)
- 2 Input/1 Output (SR4002)

DESCRIPTION

Neo:6° | 96/24 | ES°

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,003,467 & other U.S. and worldwide patents issued & pending. DTS, DTS Digital Surround, ES, and Neo:6 are registered trademarks and the DTS logos, Symbol and DTS 96/24 are trademarks of DTS, Inc.© 1996-2007 DTS, Inc. All Rights Reserved.

• dts Digital Surround

DTS was introduced in 1994 to provide 5.1 channels of discrete digital audio into home theater systems. DTS brings you premium quality discrete multichannel digital sound to both movies and music.

DTS is a multichannel sound system designed to create full range digital sound reproduction.

The no compromise DTS digital process sets the standard of quality for cinema sound by delivering an exact copy of the studio master recordings to neighborhood and home theaters.

Now, every moviegoer can hear the sound exactly as the moviemaker intended.

DTS can be enjoyed in the home for either movies or music on of DVD's, LD's, and CD's.

dts Neo:6

The advantages of discrete multichannel systems over matrix are well known.

But even in homes equipped for discrete multichannel, there remains a need for high-quality matrix decoding. This is because of the large library of matrix surround motion pictures available on disc and on VHS tape; and analog television broadcasts.

The typical matrix decoder of today derives a center channel and a mono surround channel from twochannel matrix stereo material. It is better than a simple matrix in that it includes steering logic to improve separation, but because of its mono, bandlimited surround it can be disappointing to users accustomed to discrete multichannel.

Neo:6 offers several important improvements as follow,

 Neo:6 provides up to six full-band channels of matrix decoding from stereo matrix material. Users with 6.1 and 5.1 systems will derive six and five separate channels, respectively, corresponding to the standard home-theater speaker layouts.

- Neo:6 technology allows various sound elements within a channel or channels to be steered separately, and in a way which follows naturally from the original presentation.
- Neo:6 offers a music mode to expand stereo nonmatrix recordings into the five- or six-channel layout, in a way which does not diminish the subtlety and integrity of the original stereo recording.

• dts Digital Surround ES

DTS-ES Extended Surround is a new multichannel digital signal format developed by Digital Theater Systems Inc. While offering high compatibility with the conventional DTS Digital Surround format, DTS-ES Extended Surround greatly improves the 360-degree surround impression and space expression thanks to further expanded surround signals. This format has been used professionally in movie theaters since 1999.

In addition to the 5.1 surround channels (FL, FR, C, SL, SR and LFE), DTS-ES Extended Surround also offers the SB (Surround Back) 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 DTS-ES Discrete 6.1 and DTS-ES Matrix 6.1.

• dts Digital Surround 96/24

The stereo CD is a 16-bit medium with sampling at 44.1 kHz. Professional audio has been 20- or 24bit for some time, and there is increasing interest in higher sampling rates both for recording and for delivery into the home. Greater bit depths provide extended dynamic range. Higher sampling rates allow wider frequency response and the use of antialias and reconstruction filters with more favorable aural characteristics.

DTS 96/24 allows for 5.1channel sound tracks to be encoded at a rate of 96kHz/24bits on DVD-Video titles.

When DVD-video appeared, it became possible to deliver 24-bit, 96 kHz audio into the home, but only in two channels, and with serious limitations on picture. This capability has had little use.

DVD-audio allows 96/24 in six channels, but a new player is needed, and only analog outputs are provided, necessitating the use of the D/A converters and analog electronics provided in the player.

DTS 96/24 offers the following:

1. Sound quality transparent to the original 96/24 master.

- Full backward compatibility with all existing decoders. (Existing decoders will output a 48 kHz signal)
- 3. No new player required: DTS 96/24 can be carried on DVD-video, or in the video zone of DVD-audio, accessible to all DVD players.
- 4. 96/24 5.1-channel sound with full-quality fullmotion video, for music programs and motion picture soundtracks on DVD-video.



Dolby Digital identifies the use of Dolby Digital audio coding for such consumer formats as DVD and DTV. As with film sound, Dolby Digital can provide up to five full-range channels for left, center, and right screen channels, independent left and right surround channels, and a sixth (".1") channel for low-frequency effects.

Dolby Surround Pro Logic II is an improved matrix decoding technology that provides better spatiality and directionality on Dolby Surround program material; provides a convincing three-dimensional soundfield on conventional stereo music recordings; and is ideally suited to bring the surround experience to automotive sound. While conventional surround programming is fully compatible with Dolby Surround Pro Logic II decoders, soundtracks will be able to be encoded specifically to take full advantage of Pro Logic II playback, including separate left and right surround channels. (Such material is also compatible with conventional Pro Logic decoders.)

Dolby Digital EX creates six full-bandwidth output channels from 5.1-channel sources. This is done using a matrix decoder that derives three surround channels from the two in the original recording. For best results, Dolby Digital EX should be used with movies soundtracks recorded with Dolby Digital Surround EX.

About Dolby Pro Logic IIx

Dolby Pro Logic IIx technology delivers a natural and immersing 7.1-channel listening experience to the home theater environment. A product of Dolby's expertise in surround sound and matrix decoding technologies, Dolby Pro Logic IIx is a complete surround sound solution that maximizes the entertainment experience from stereo as well as 5.1-channel encoded sources. Dolby Pro Logic IIx is fully compatible with Dolby Surround Pro Logic technology and can optimally decode the thousands of commercially available Dolby Surround encoded video cassettes and television programs with enhanced depth and spatiality. It can also process any high-quality stereo or Advanced Resolution 5.1-channel music content into a seamless 6.1- or 7.1-channel listening experience.



The Dolby Headphone technology provides a surround sound listening experience over headphones. When listening to multichannel content such as DVD movies over headphones, the listening experience is fundamentally different than listening to speakers. Since the headphone speaker drivers are covering the pinna of the ear, the listening experience differs greatly from traditional speaker playback. Dolby utilizes patented headphone perspective curves to solve this problem and provides a non-fatiguing, immersive, home theater listening experience. Dolby Headphone also delivers exceptional 3D audio from stereo material.

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



Circle Surround II (CS-II) is a powerful and versatile multichannel technology. CS-II is designed to enable up to 6.1 multichannel surround sound playback from mono, stereo, CS encoded sources and other matrix encoded sources. In all cases the decoder extends it into 6 channels of surround audio and a LFE/subwoofer signal. The CS-II decoder creates a listening environment that places the listener "inside" music performances and dramatically improves both hi-fi audio conventional surround-encoded video material. CS-II provides composite stereo rear channels to greatly improve separation and image positioning – adding a heightened sense of realism to both audio and A/V productions.

CS-II is packed with other useful feature like dialog clarity (SRS Dialog) for movies and cinema-like bass enrichment (TruBass). CS-II can enable the dialog to become clearer and more discernable in movies and it enables the bass frequencies contained in the original programming to more closely achieve low frequencies – overcoming the low frequency limitations of the speakers by full octave.

Circle Surround II, Dialog Clarity, TruBass, SRS and symbol are trademarks of SRS Labs, Inc. Circle Surround II, Dialog Clarity and TruBass technology are incorporated under license from SRS Labs, Inc.

Microsoft®



HDCD[®] (High Definition Compatible Digital [®]) is a patented process for delivering on Compact Disc the full richness and details of the original microphone feed.

HDCD encoded CDs sound better because they are encoded with 20-bits of real musical information as compared to 16-bits for all other CDs.

HDCD overcomes the limitation of the 16-bit CD format by using a sophisticated system to encode the additional four bits onto the CD while remaining completely compatible with the CD format.

When listening to HDCD recordings, you hear more dynamic range, a focused 3-D sound stage, and extremely natural vocal and musical timbre. With HDCD, you get the body, depth and emotion of the original performance not a flat, digital imitation.

HDCD system manufactured under license from Microsoft. This product is covered by one or more of the following: In the United States 5,479,168 5,638,074 5,640,161 5,808,574 5,838,274 5,854,600 5,864,311 5,872,531 and in Australia 669,114 with other patents pending.

HDMI

HDMI, the **HDMI** and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. XM Satellite Radio Ready



READY

The XM name and related logos are registered trademarks of XM Satellite Radio Inc.

ENGLISH

BEFORE USE

This section must be read before any connection is made to the mains supply.

EQUIPMENT MAINS WORKING SETTING

Your Marantz product has been prepared to comply with the household power and safety requirements that exist in your area.

SR4002/SR5002 can be powered by 120V AC only.

COPYRIGHT

Recording and playback of any material may require consent. For further information refer to the following:

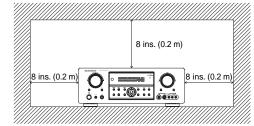
- Copyright Act 1956
- Dramatic and Musical Performers Act 1958 _
- Performers Protection Acts 1963 and 1972 _
- Any subsequent statutory enactments and _ orders

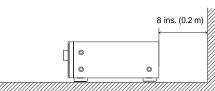
DO NOT LOCATE IN THE FOLLOWING PLACES

To ensure long-lasting use, do not locate the unit where:

- Exposed to direct sunlight.
- Near to sources of heat such as heaters.
- Highly humid or poorly ventilated.
- Dusty.
- Subjected to mechanical vibrations.
- On wobbly, inclined or otherwise unstable surfaces
- Radiated heat is blocked such as in cramped audio racks.

To ensure proper heat radiation, ensure the below clearance from walls and other equipment.





KEEP OBJECTS OFF

Keep objects off the unit. Blocking the vent can result in accident and damage.

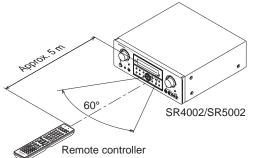
DO NOT TOUCH HOT SPOTS DURING AND **IMMEDIATELY AFTER USE**

During and immediately after use, the unit is hot in areas other than the controls and rear panel connection jacks. Do not touch hot spots and especially the top panel. Contact with hot areas can cause burns.

OPERATION OF REMOTE CONTROLLER

REMOTE CONTROL

Operate the remote controller within a distance of approx. 5m from the infrared receptor window on the front of the unit.



Caution:

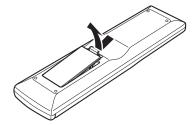
- Do not allow direct sunlight, an inverter fluorescent light or other strong source of light to shine onto the player's infrared receptor window. Otherwise, the operation of the remote controller may be disabled.
- Bear in mind that operating the remote controller may cause other devices operated by infrared rays to be operated by mistake.
- The remote controller cannot be operated if the space between the controller and the player's infrared receptor window is obstructed.
- Do not place any objects on top of the remote controller.

Doing so may cause one or more buttons to be held down which will cause the batteries to run down.

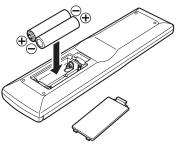
LOADING BATTERIES

Before using the remote controller for the first time, load the batteries in the remote controller. The batteries provided are used to verify the operations of the remote controller only.

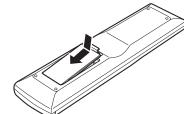
1. Remove the battery cover.



2. Load the two new size "AAA" batteries inside the battery compartment while taking care to align their polarities correctly with the polarity markings (\oplus with (\oplus and \bigcirc with \bigcirc).



3. Close the battery cover until it clicks shut.



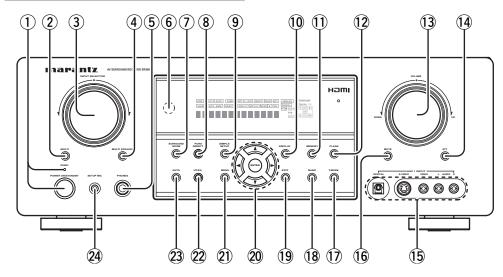
CAUTIONS ON BATTERIES

- Use "AAA" type batteries in this remote controller.
- · We recommend that you use alkali batteries.
- · If the remote controller does not operate from close to the unit, replace the batteries with new ones, even if less then a year has passed.
- The included battery is only for verifying operation. Replace it with a new battery as soon as possible.
- When inserting the batteries, be careful to do so in the proper direction, following the + and - marks in the remote controller's battery compartment.
- To prevent damage or battery fluid leakage: - Do not use a new battery with an old one.
- Do not use two different types of batteries.
- Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- · Remove the batteries when not planning to use the remote controller for a long period of time.
- · If the batteries should leak, carefully wipe off the fluid from the inside of the battery compartment. then insert new batteries.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.

NAMES AND FUNCTIONS

FRONT PANEL (SR4002) (2) (3) (4)(5)(6)(7)(8)(9 (10)(11)(12) (13)(14)(1) nari ntz наті MODE PURE DIRECT C C C. S-VIDEO VIDEO L AUDIO R \bigcirc Ø 000 (20) (19) (18) (17) (21) (24) (23)(22) (16)(15)

FRONT PANEL (SR5002)



1 POWER switch and STANDBY indicator

When this switch is pressed once, the unit turns ON and the display illuminates. When pressed again, the unit turns OFF and the STANDBY indicator will be illuminated.

2 MULTI (Multi Room) button (SR5002 only)

Press this button to activate the Multiroom system. "MULTI" indicator will be illuminated in the display.

2 7.1CH INPUT button (SR4002 only)

Press this button to select the output of an external multichannel player.

③ INPUT SELECTOR knob (AUDIO/ VIDEO)

This knob is used to select the input sources. (See page 33)

④ M.(Multi Room) SPEAKER button (SR5002 only)

Press this button to activate the Multiroom Speaker system. "**MULTI**" indicator will be illuminated in the display. (See page 44)

④ S.(Surround) SPEAKER B button (SR4002 only)

Press this button to activate the Surround Speaker B system . "SPKR B" indicator will be illuminated in the display. (See page 45)

5 HEADPHONE jack for stereo headphones

This jack may be used to listen to the unit's output through a pair of headphones. Be certain that the headphones have a standard 1 / 4" stereo phono plug.

6 INFRARED receiving sensor window

This window receives infrared signals for the remote control.

⑦ SURROUND MODE button

Press this button to select the surround mode.

8 PURE DIRECT button and indicator

When this button is pressed once, "SOURCE DIRECT" appears on the FL display. If pressed again, "PURE DIRECT" appears. After 2 seconds, the FL display indication goes out.

In the source/pure direct mode, the tone control circuitry and bass management are bypassed.

Notes:

- The surround mode is automatically switched to AUTO when the pure direct/source direct function is turned on.
- Additionally, speaker configurations are fixed automatically as follows.

Front SPKR = LARGE Center SPKR = LARGE Surround SPKR = LARGE Surround Back SPKR = LARGE Sub woofer = YES

9 SIMPLE SETUP button

Press this button to enter the simple setup mode. You can setup the speaker conditions (speaker sizes, number of speakers, speaker delay times) quickly by pressing the cursor buttons.

DISPLAY button

Press this button to change the FL display mode. (See page 38)

① MEMORY button

Press this button to enter the tuner preset memory numbers or station names. (See page 41)

12 CLEAR button

Press this button to cancel the station-memory setting mode or preset scan tuning. (See page 42)

13 VOLUME control knob

This knob is used to adjust the overall sound level. Turning the control clockwise increases the sound level. (See page 33)

ENGLISH

(14)

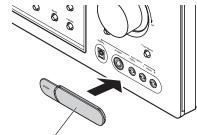
ATT (Attenuate) button

Press this button to reduce the analog audio signal input level by about half. "ATT" indicator will be illuminated in the display. (See page 39)

15 AUX1 INPUT jacks

These auxiliary video/audio input jacks accept the connections of a camcorder, portable DVD, game etc. When not using these jacks, protect with the included jack covers.

How to Attach the Front AUX Jack Cover



Front AUX Jack Cover

16 MUTE button

Press this button to mute the output to the speakers. Press it again to return to the previous volume level.

17 T-MODE button

Press this button to select the auto stereo mode or mono mode when the FM band is selected. "AUTO" indicator will be illuminated in the display. (See page 41)

18 BAND button

Press this button to switch between FM and AM in the TUNER mode.

(19 EXIT button

Press this button to exit from the SETUP MAIN $\ensuremath{\mathsf{MENU}}$.

20 Cursor $(\blacktriangleleft, \triangleright, \blacktriangle, \checkmark)$ / ENTER button

Press these buttons to operate the SETUP MAIN MENU and TUNER function.

21 MENU button

Press this button to enter the SETUP MAIN MANU.

22 HT-EQ button

Press this button to turn on or off HT(Home Theater)-EQ mode. This mode compensates for the audio portion of a movie sounding "bright". "**EQ**" indicator will be illuminated in the display. (See page 40)

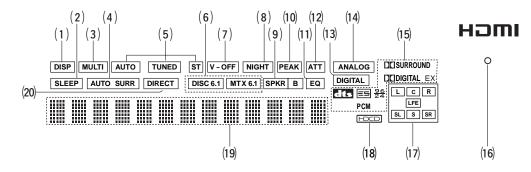
23 AUTO (Auto surround) button

Press this button to select the AUTO mode from the surround modes. When this mode is selected, the unit determines the surround mode corresponding to a digital input signal automatically.

24 SETUP MIC jack

Automatically measure speaker characteristics using the included microphone (MC-10). (See page 29)

FL DISPLAY AND INDICATOR



DISP (Display Off) indicator (1)

This indicator is illuminated when this unit is in the display off mode.

(2) SLEEP timer indicator

This indicator is illuminated when the sleep timer function in the main-room is in use.

(3) Multi-room system indicator

This indicator is illuminated when the multi-room system is active.

AUTO SURR (Auto Surround (4) mode) indicator

This indicator is illuminated to show that the AUTO SURROUND mode is in use.

(5)**TUNER's indicators**

- AUTO: This indicator illuminates when the tuner's Auto mode is in use.
- **TUNED**: This indicator illuminates when the tuner receives a sufficiently strong radio signal.
- ST(Stereo): This indicator illuminates when an FM station is being tuned into stereo condition.

DTS-ES mode indicators (6)(DISC6.1, MTX6.1)

These indicators will illuminate to show the DTS-ES decoding mode (Discrete 6.1 or Matrix 6.1).

V (video)-OFF mode indicator (7)

This indicator is illuminated when the Video-OFF function is active.

(8) NIGHT mode indicator

This indicator is illuminated when this unit is in the Night mode, which reduces the dynamic range of digital program material at low volume levels.

(9) SPKR (speaker) AB indicator

This indicator is illuminated when the M (Multiroom) speaker B system is active. (SR4002 only) It displays the speaker system in use (A or B). When the speakers are not in use, both lights (A and B) will be turned off. (SR5002 only)

(10) **PEAK** indicator

This indicator is a monitor for an analog audio input signal. If the selected analog audio input signal is greater than the capable level of internal processing, this will illuminate. If this happens, you should press the ATT button.

EQ mode indicator (11)

This indicator is illuminated when the HT-EQ function is active.

(12) ATT (Attenuation) indicator

This indicator is illuminated when the attenuation function is active.

DIGITAL Input Indicator (13)

This indicator is illuminated when a digital input has been selected.

(14) **ANALOG** input indicator

This indicator is illuminated when an analog input source has been selected.

(15) SIGNAL FORMAT indicators

This indicator is illuminated when a Dolby Digital signal is input. EX

This indicator is illuminated when a Dolby Digital EX

signal is input.

dts

This indicator is illuminated when a DTS signal is input.

ES

This indicator is illuminated when a DTS ES signal is input.

96/24

This indicator is illuminated when a DTS 96/24 signal is input.

PCM

This indicator is illuminated when the input signal is PCM (pulse code modulation).

This indicator is illuminated when a Dolby Surround signal is input.

(16) HDMI indicator

This indicator is illuminated when input terminal of the HDMI component is connected to the unit.

(17) ENCODED CHANNEL STATUS indicators

These indicators display the channels that are encoded with a digital

input signal.

If the digital input signal is Dolby Digital 5.1ch or DTS 5.1ch, "L", "C", "R", "SL", "SR" and "LFE" will be illuminated.

If the digital input signal is 2 channel PCM-audio, "L" and "R" will be illuminated.

If the digital input signal is Dolby Digital 5.1ch signal with Surround EX flag or DTS-ES, "L", "C", "R", "SL", "S". "SR" and "LFE" will be illuminated.

HDCD indicator (18)

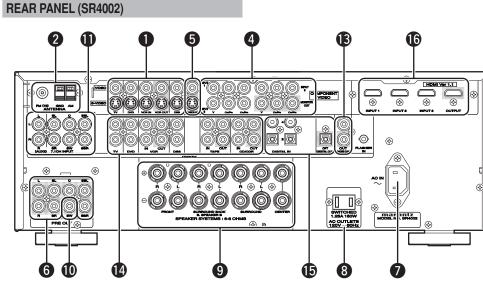
ENGLISH This indicator is illuminated when the HDCD signal is decoded from digital input signal.

Main Information Display (19)

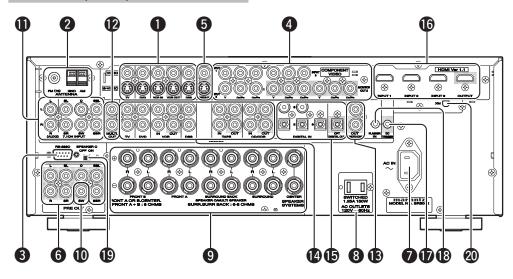
This display shows messages relating to the status, input source, surround mode, tuner, volume level or other aspects of unit's operation.

DIRECT (Puredirect) indicator (20)

This indicator is illuminated when this unit is in the SOURCE DIRECT or PURE DIRECT mode.







• VIDEO IN/OUT (TV, DVD, VCR, DSS)

These are the video inputs and outputs. There are 4 video inputs and 2 video outputs and each one includes both composite video and S-video configurations. Connect VCRs, DVD players, and other video components to the video inputs.

The 2 video output channels can be used to be connected to video tape recorders for making recordings.

2 FM antenna terminal (75 ohms)

Connect an external FM antenna with a coaxial cable, or a cable network FM source.

AM antenna and ground terminals

Connect the supplied AM loop antenna. Use the terminals marked "AM" and "GND". The supplied AM loop antenna will provide good AM reception in most areas. Position the loop antenna until you hear the best reception.

3 RS-232C (SR5002 only)

The RS-232C port is to be used in conjunction with an external controller to control the operation of the SR5002 by using an external device.

COMPONENT VIDEO INPUT/ OUTPUT

If your DVD player or other device has component video connectors, be sure to connect them to these component video connectors on the unit. This unit has two component video input connectors to obtain the color information (Y, C^B, C^R) directly from the recorded DVD signal or other video component and one component video output connector to output it directly into the matrix decoder of the display device. By sending the pure DVD component video signal directly, the DVD signal forgoes the extra processing that normally would degrade the image. The result is vastly increased image quality, with incredibly life like colors and crisp detail.

When the video convert function is enabled, video and S-video images can be output to the COMPONENT MOINTOR OUT jack.

6 MONITOR OUT

This is a monitor output and each one includes both composite video and S-video configurations. When connecting two video monitors or televisions, be aware that the OSD interface can be used with both MONITOR OUT connections.

Preamp Outputs (L, R, SL, SR, SBL, SBR, C)

Jacks for L(front left), R (front right), C (Center), SL (surround left), SR (surround right), SBL (surround back left) and SBR (surround back right). Use these jacks for connection to external power amplifiers.

AC INLET

Plug the supplied power cable into this AC INLET and then into the power outlet on the wall. This unit can be powered by 230V AC only.

3 AC OUTLETS

Connect the AC power cable of component such as a DVD or CD player to this outlet.

This outlet provides power only when this unit is turned on.

Caution:

- In order to avoid potential turn-off thumps, anything plugged into this outlet should be powered up before this unit is turned on.
- The capacity of this AC outlet is 150W. Do not connect devices that consume electricity more than the capacity of this outlet. If the total power consumption of the connected devices exceeds the capacity, the protection circuit shuts down the power supply.

Speaker outputs terminals

Seven terminals are provided for the front left, front right, front center, surround left, surround right, surround back left and surround back right speakers.

Note:

You can use surround back speaker terminals as M (Multiroom) SPEAKER B terminals, when you use no surround back speaker.

Subwoofer Output

Connect this jack to the line level input of a powered subwoofer. If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input. If you are using two subwoofers, either powered or with a 2 channel subwoofer amplifier, connect a "Y" connector to the subwoofer output jack and run one cable from it to each subwoofer amplifier.

① 7.1 CHANNEL or AUX2 INPUT

By connecting a DVD Audio player, Super Audio CD multichannel player, or other components that has a multichannel port, you can playback the audio with 5.1 channel or 7.1 channel outputs.

Multiroom Outputs (SR5002 only)

These are the audio output jacks for the Multi zone (Multi room).

Connect these jacks to optional audio power amplifiers to listen the source selected by the multiroom system in a remote room.

B REMOTE CONT. IN/OUT terminals

Connect to a Marantz component equipped with remote control (RC-5) terminals.

AUDIO IN/OUT (CD, TAPE, CD-R, TV, DVD, VCR, DSS)

These are the analog audio inputs and outputs. There are 6 audio inputs (4 of which are linked to video inputs) and 3 audio outputs (1 of which are linked to video outputs). The audio jacks are nominally labeled for cassette tape decks, compact disc players, DVD players and etc....The audio inputs and outputs require RCA-type connectors.

DIGITAL INPUT (SR4002 : Dig.1 - 4, SR5002 : Dig.1-5) / OUTPUT (optical)

These are the digital audio inputs and outputs. The SR4002 has 2 digital inputs with coaxial jacks, 2 with optical jacks.

The SR5002 has 2 digital inputs with coaxial jacks, 3 with optical jacks.

The inputs accept digital audio signals from a CD, DVD, or other digital source component.

For digital output, this is 1 optical output. The digital outputs can be connected to MD recorders,

CD recorders, or other similar components.

HDMI INPUT/OUTPUT

The SR4002 has 2 HDMI inputs and 1 HDMI output. The SR5002 has 3 HDMI inputs and 1 HDMI output. The input function can be selected from the OSD menu system. (See page 27)

DC TRIGGER output terminal (SR5002 only)

Connect a device that needs to be triggered by DC under certain conditions (screen, power strip, etc...) Use the system OSD setup menu to determine the conditions by which these jack will be active.

Note:

This output voltage is for (status) control only, It is not sufficient for drive capability.

FLASHER IN (Flasher input terminal) (SR5002 only)

These terminals are to control the unit from each zone. Connect the control signal from a Keypad, etc.

SPEAKER C SELECTOR SWITCH (SR5002 only)

The terminals can be used to connect a third set of speakers by setting the SPEAKER C selector switch to ON. For connection and use, see page 24.

XM antenna terminal (SR5002 only)

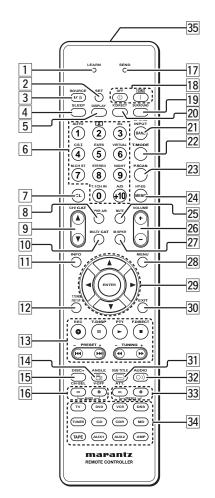
Plug the XM Mini-Tuner and Home Dock into XM terminal.

REMOTE CONTROLLER

ENGLISH

The provided remote controller is a universal remote controller. The **POWER** button, numeric buttons and control buttons are used in common across different input source components.

The input source controlled with the remote controller changes when one of the input selector buttons is pressed.



1 LEARN indicator

Indicates when the remote controller is in the LEARN mode.

2 SET button

This button is used to enter learn mode and preset mode.

3 ∪ / | SOURCE ON/OFF button

This button is used to turn a specific source (such as a DVD player) on or off independently from the rest of the system.

4 SLEEP button

This button is used for setting the sleep timer.

5 **DISPLAY button**

This button is used to selects the display mode for the front display of the unit.

6 Numeric buttons

These buttons are used to switch between 0 to +10 of the source components.

If the source is set to the amplifier, these buttons are used to perform operations.

(When AMP mode is selected)

1/AUTO button

This button is used to select auto surround.

2/Dolby button This button is used to select DOLBY mode.

3/dts button

This button is used to select dts mode.

4/CSII button This button is used to select CSII mode.

5/EX/ES button This button is used to select EX/ES mode.

6/VIRTUAL button This button is used to select VIRTUAL mode.

7/M-CH ST button This button is used to select Multi Channel Stereo.

8/STEREO button

This button is used to select STEREO mode.

9/NIGHT button

Pressing this button prevents the Dolby Digital signal from playback at a loud voice. This function reduces the voice by 1/3 to 1/4 at maximum. Thus, it eliminates the occurrence of an abruptly loud voice at night. However, the function is valid only in the case when the Dolby Digital signal is entered into OPTICAL or COAXIAL and data to compress the voice exists in the signal to be played back.

When this button is pressed, the " $\ensuremath{\text{NIGHT}}$ " indicator is illuminated.

0/7.1CH IN button

This button is used to select the output of an external multi channel decoder.

(+10) A/D button

This button is used to switch between the analog and digital inputs.

7 CL (Clear) button

This button is used to erase the memory or program of a source.

8 SPKR A/B button (SR5002 only)

This button is used to select the speaker system. The speaker system is switched in the following sequence. $A \rightarrow B \rightarrow A+B \rightarrow off$

9 CH/CAT▲ (UP) / ▼ (DOWN) buttons

These buttons are used to change channels.

10 MULTI/CAT button (SR5002 only)

(When AMP mode is selected) This button is used to turn on and off multi room.

11 INFO button

(When AMP mode is selected) When this button is pressed, the current setting are displayed on the TV monitor.

12 T.TONE/SET UP button

(When AMP mode is selected) This button is used to enter the test tone menu. (2-4 speakers level)

13 CONTROL buttons

These buttons are used when operating PLAY, STOP, PAUSE and other commands of a source.

(When TUNER mode is selected)

T.DISP button

This button is used to select the display mode in RDS.

PTY button

This button is used to display the programme type information of the current station.

F.DIRECT button

This button is used to select the "Frequency direct input".

PRESET +/- buttons

This button is used to select a preset station up and down.

TUNING +/- buttons

This button is used to tune a frequency station up and down.

14 ANGLE/V-OFF buton

(When AMP mode is selected)

This button is used to turn off the video signal.

15 DISC+/CH. SEL button

(When AMP mode is selected)

This button is used to call up CH LEVEL ADJUST and adjust speaker levels or 7.1 ch input level.

16 BASS +/- buttons

These buttons are used to adjust the tone control of low frequency sound for left, right and subwoofer speaker.

17 SEND indicator

Indicates when the remote controller is transmitting a signal.

18 U / | POWER ON and OFF buttons

(When AMP mode is selected) These buttons are used to turn the unit on or off.

19 SURROUND button

This button is used to selects the surround mode.

20 P.DIRECT button

When this button is pressed, the tone control circuit is bypassed.

21 BAND/LIP SYNC/INPUT button

(When TUNER mode is selected) This button is used to select a radio band.

(When AMP mode is selected) This button is used to select LIP SYNC mode.

(When TV mode is selected) This button is used to select monitor input.

22 T.MODE button

(When TUNER mode is selected)

This button is used to select auto stereo mode or mono mode when the FM band is selected. The "**AUTO**" indicator lights in the auto stereo mode.

23 P.SCAN button

(When TUNER mode is selected)

This button is used to start preset scan.

24 MEMO/HT-EQ button

This button is used to store setting to memory or program a source.

(When AMP mode is selected)

This button is used to turn on or off HT(Home Theater)-EQ mode. This mode compensates for the audio portion of a movie sounding "bright". When this button is pressed, "**EQ**" indicator light up.

25 MUTE button

This button is used to mute the audio for the amplifier and television.

Note:

Set the AMP mode to use this button with the unit.

26 VOLUME +/- buttons

This button is used to adjust the volume for the amplifier and television.

Note:

Set the AMP mode to use this button with the unit.

27 M-SPKR button (SR5002 only)

(When AMP mode is selected)

This button is used to turn on and off multi speaker.

28 MENU button

(When AMP mode is selected)

This button is used to call up the SETUP MAIN $\ensuremath{\mathsf{MENU}}$ of the unit.

29 <, ►, ▲, ▼ (CURSOR) / ENTER buttons

These buttons are used when controlling the cursor of the unit, DVD or other AV equipment.

30 EXIT button

(When AMP mode is selected)

This button is used to cancel setting in the setup menu.

31 SUBTITLE/ATT. button

(When AMP mode is selected)

When the input signal is too high and the voice distorts even by throttling the unit VOLUME control, turn on this function.

"ATT" is indicated when this function is activated. The input level reduced. Attenuator is invalid for the output signal of "REC OUT".

Note:

This function is unavailable while the digital input is selected.

32 AUDIO buttons

(When DVD mode is selected)

This button is used to select one of the audio language.

33 TREBLE +/- buttons

These buttons are used to adjust the tone control of high frequency sound for left and right speaker.

34 SOURCE button

These buttons are used to switch the source of your A/V Receiver / amplifer. Each time a source button is pressed, the remote controller changes to the source which was pressed.

This remote controller can control 12 types of equipment. To change the A/V Receiver / amplifier source, press this button twice within two seconds. The signal is sent when it is pressed the second time.

Notes:

- Select the AMP as the source to use this remote controller with the unit.
- In the case of the SR4002 or SR5002, the MD button cannot be used.

35 Infrared Transmitter and Learning Sensor

This transmitter emits infrared light. Press the buttons while pointing the transmitter towards the infrared receiver window of the unit or other AV equipment. Be sure to also point towards other remote controllers when using the learning function.

REMOTE CONTROL OPERATION

GENERAL INFORMATION OF REMOTE CONTROLLER TO THE UNIT

To control the unit by your remote controller, you have to select the device AMP or TUNER by pressing the **SOURCE** button. Please refer below for the details in AMP and TUNER mode.

AMP MODE

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	O	SEND O	
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		(6) (9) (10) (10)	
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	T.DISP	PTY	FDRECT
CH48			00 •
			33 30
TAP	E AUX1 ITT CL IP REMOTE CO	antz	3

SOURCE ON / OFF	Turns the SR4002/SR5002 on and off
POWER OFF	Turns the SR4002/SR5002 off
POWER ON	Turns the SR4002/SR5002 on
SLEEP	Sets the sleep timer function
DISPLAY	Changes the front display mode
P.DIRECT	Selects the pure direct mode
SURROUND	Selects the surround mode
AUTO (1)	Selects auto surround
DOLBY (2)	Selects DOLBY mode
dts (3)	Selects dts mode
CSII (4)	Selects CSII mode
EX/ES (5)	Selects EX/ES
VIRTUAL (6)	Selects VIRTUAL mode
M-CH ST (7)	Selects Multi Channel Stereo
STEREO (8)	Selects STEREO mode
NIGHT (9)	Turns on or off NIGHT mode
7.1CH IN (0)	Selects the 7.1CH IN
A/D (+10)	Switches between the analog or digital inputs
LIP SYNC / INPUT	Selects the LIP SYNC mode
HT-EQ	Turns on or off HT-EQ mode
SPKR A / B	Selects the speaker system
MULTI / CAT	Turns on or off multi room
MUTE	Decreases the sound temporarily
M-SPKR	Turns on or off multi speaker
VOLUME 🔺 / 🔻	Adjusts the over all sound level
INFO	Displays the current setting on the monitor
MENU	Enters the "SETUP MENU"
	Enters the "SETUP MENU"
ENTER	Confirms the setting in "SETUP MENU" mode
CURSOR	Moves the cursor for setting in "SETUP MENU" mode
T.TONE / SET UP	Enters the test tone menu
EXIT	Exits from SETUP MENU
CH-SEL	Calls up CH LEVEL ADJUST and adjusts speaker levels or 7.1ch input level
V-OFF	Turns on or off video output
ATT.	Reduces the input level
BASS 🔺 / 🔻	Adjusts the tone control of low frequency sound
TREBLE ▲ / ▼	Adjusts the tone control of high frequency sound
SOURCE	Selects a particular source component

TUNER MODE

SEND

TDISP
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 $\begin{array}{c|c} \text{DISC-v} & \text{AMOLE} & \text{SUB TITLE} & \text{AUDIO}\\ \hline \\ \hline \\ \text{CH-SEL} & \hline \\ \text{VOFF} & \text{ATT} & \hline \\ \hline \\ \text{LASS} & \hline \\ \hline \\ \hline \\ \text{VV} & \text{OVO} & \text{VR} & \text{DSB} \end{array}$

TAPE (MUX) (MUX) (MUP)

0-9	Inputs the numeric
BAND	Selects a radio band
T.MODE	Selects the auto stereo mode or mono mode
P.SCAN	Starts preset scan
CL	Clears the inputting
MEMO	Enters the tuner preset memory numbers
INFO	Shows preset information
T.DISP	Selects the display mode in RDS
PTY	Displays the programme type information of the current station
F.DIRECT	Selects the "Frequency direct input"
PRESET ▲ / ▼	Selects a preset station up and down
TUNING ▲ / ▼	Tunes a frequency station up and down

CONTROLLING MARANTZ COMPONENTS

- 1. Press the desired SOURCE button.
- 2. Press the desired operation buttons to play the selected component.
 - For details, refer to the component's user guide.
 - It may not be possible to operate some models.

CONTROLLING A MARANTZ DVD PLAYER (DVD MODE)



SOURCE ON / OFF	Turns the DVD player on and off
POWER OFF	Turns the DVD player off
POWER ON	Turns the DVD player on
0-9,+10	Inputs the numeric
CL	Clears the inputting
MEMO	Calls up programming menu
INFO	Displays the disc information
MENU	Calls up the menu of DVD disc
ENTER	Enters the setting
CURSOR	Moves the cursor for setting in "On Screen Display" mode
T.TONE / SET UP	Enters the test tone menu
EXIT	Exits from SETUP MENU
T.Tone/Set up	Calls up the setup menu of the
	DVD player
Pause	Pause
Play	Play
Stop	Stop
Previous/Next	Skips forward or previous
	chapter/track
Rewind/ Forward	Searchs forward or backward
DISC+	DVD changer next disc
ANGLE	Selects the camera angle
SUBTITLE	Selects the subtitle language
AUDIO	Selects the audio language

CONTROLLING A MARANTZ CD (CD MODE)

CL (0) (10)

(11) (-)

(144) (44)

MEMO

(4)

- TU

TAPE AUX1 AUX2 AMP

marantz

SOURCE ON / OFF	Turns the CD player on and off
POWER OFF	Turns the CD player off
POWER ON	Turns the CD player on
0-9	Inputs the numeric
CL	Clears the inputting
MEMO	Programs
INFO	Scrolls the disc information
MENU	Switches the display information
Pause	Pause
Play	Play
Stop	Stop
Previous/ Next	Skips forward or previous track
Rewind/ Forward	Searchs forward or backward
DISC+	CD changer next disc

CONTROLLING A MARANTZ VCR (VCR MODE)

TUNER CD CDR MD

TAPE AUX1 AUX2 AMP

marantz

	SOURCE ON / OFF	Turns the VCR on and off
LEARN SEND	0-9,+10	Inputs the numeric
	LIP SYNC/INPUT	Selects TV/VCR
SOURCE SET OFF ONI	CL	Clears the inputting
	MEMO	Calls up programming menu
	CH▲/▼	Selects VCR channel up or down
CSI EXAES VIRTUAL T.MODE	MENU	Calls up the menu
M-CH ST STEREO NIGHT P.SCAN	ENTER	Enters the setting
7890	CURSOR	Moves the cursor for setting in
		"On Screen Display" mode
CHV CAT SPKR A/B MUTE VOLUME	EXIT	Exits the programming menu
	REC	Record
$\bigcirc \bigcirc $	Pause	Pause
	Play	Play
	Stop	Stop
	Previous / Next	Skips forward or previous track
Itilities Nettop	Rewind / Forward	Searchs forward or backward
REC T.DISP PTY F.DIRECT	AUDIO	Selects the audio language
- PRESET + - TUNING +		

CONTROLLING A MARANTZ CD RECORDER (CDR MODE)

LEARN SEND
NUME ST OF NUME NUME NUME NUM NUME NUME NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM <t< td=""></t<>
$\begin{array}{c c} \begin{array}{c} \text{Disc}, & \text{Alder} & \text{Is at the } & \text{Alder} \\ \hline \\ \text{Cl} & \text{Cl} & \text{Cl} & \text{Cl} & \text{Cl} \\ \hline \\ \text{Cl} & \text{Cl} & \text{Cl} & \text{Cl} \\ \hline \\ \text{Cl} & \text{Cl} & \text{Cl} & \text{Cl} \\ \hline \\ \text{Cl} & \text{Cl} & \text{Cl} \\ \hline \\ \text{Cl} & \text{Cl} & \text{Cl} \\ \hline \\ \text{Cl} & \text{Cl} \\ \hline \\ \text{Cl} & \text{Cl} \\ \hline \\ \end{array} \end{array} $
REMOTE CONTROLLER

SOURCE ON / OFF	Turns the CD recorder on and off
POWER OFF	Turns the CD recorder off
POWER ON	Turns the CD recorder on
0-9	Inputs the numeric
CL	Clears the inputting
MEMO	Programs
INFO	Scrolls the disc information
MENU	Switches the display information
REC	Record
Pause	Pause
Play	Play
Stop	Stop
Previous / Next	Skips forward or previous track
Rewind / Forward	Searchs forward or backward
riowing / r orward	Coulding forward of backward

CONTROLLING A MARANTZ MD DECK (MD MODE)

TTONE /SET UP

ENTER)

 $\overline{\mathbf{v}}$

 DISC+
 ANGLE
 SUB TITLE
 AUDIO

 CH-SEL
 CH
 CH
 CH
 CH
 CH

 CH-SEL
 CH
 CH
 CH
 CH
 CH
 CH

 DASC
 CH
 CH

TAPE (AUX1) (AUX2 (AMP) IIII CONTROLLER

		Turne the MD dealers and aff
	SOURCE ON / OFF	Turns the MD deck on and off
LEARN SEND	POWER OFF	Turns the MD deck off
SOURCE SET OFF ION	POWER ON	Turns the MD deck on
	0-9	Inputs the numeric
	CL	Clears the inputting
	MEMO	Programs
	MENU	Switches the display information
M-CH ST STEREO NIGHT P.SCAN	REC	Record
(7) (8) (9) () 7.1CH IN ARC HTE9	Pause	Pause
	Play	Play
CHU CAT SPIGE AB NUTE VOLUME	Stop	Stop
MULTI/ CAT M-SPKR	Previous / Next	Skips forward or previous track
$\bigcirc \bigcirc $	Rewind / Forward	Searchs forward or backward

CONTROLLING A MARANTZ TAPE DECK (TAPE MODE)

	O	SEND	
AUTO AUTO CEI CEI CEI CU CU CU CU CU CU CU CU CU CU	EXES SERVICE DISPLAY EXES STEREO		
	ANGLE V-OFF + BASS - CD CD AUX1	SUB TITLE ATT. UTTE CDR AUX2	AUDRO
	REMOTE CO	CONTROLLE	R R

	SOURCE ON / OFF	Turns the TAPE deck on and off
	POWER OFF	Turns the TAPE deck off
	POWER ON	Turns the TAPE deck on
	0-9	Inputs the numeric
	CL	Clears the inputting
	MEMO	Programs
	REC	Record
	Pause	Pause
	Play	Play
	Stop	Stop
me	Previous / Next	Skips forward or previous track
2	Rewind / Forward	Searchs forward or backward

CONTROLLING A MARANTZ UNIVERSAL DOCK (AUX1 MODE)

	O	O	
SOURCE	SET	077	
SLEEP		P.DIRECT	
АЛТО	2	3	
(4)	5	(6)	T.MODE
M-OH ST	STERED	NIGHT 9	
	7.1CH IN	(+10)	HT-EQ MEMO
CHUCAT	SPICE AB	MUTE	VOLUME
	MULTY CAT	M-SPKR	
		\bigcirc	Θ
Õ			Õ
. (1	< ((en	ren))	▶)
ITONE ISET UP	Č	5	
REG		PTY	F.DIRECT
- PR	ESET +	- TUN	
(H)	(++)		
CH-SEL	V-OFF	SUB TITLE	
	(+ (DVD		(+) (DSS)
TUNER		CDR	MD
TAPE	AUX1	(AUX2)	AMP
	r in an I P Remote Co		R

SOURCE ON / OFF	Turns the UNIVERSAL DOCK (Dock connector) ON and OFF
POWER OFF	Turns the UNIVERSAL DOCK (Dock connector) OFF
POWER ON	Turns the UNIVERSAL DOCK (Dock connector) ON
INFO	Mode
MENU	Call up the menu
ENTER	Enter the setting
CURSOR UP	Select contents Up
CURSOR DOWN	Select contents Down
Pause	Pause
Play	Play / Pause
Stop	Stop
Previous/Next	Skips forward or previous tracks
P.SCAN	Shuffle

ENGLISH

BASIC OPERATION

NORMAL MODE

(When operating Marantz AV equipment products)

This remote controller is preset with a total of 12 types of remote codes, including Marantz TV (television), DVD, VCR (VCR deck), DSS (satellite broadcasting tuner), TUNER, CD, CD-R, MD, TAPE (tape deck), AUX1, AUX2, and AMP (amplifier). Learning is not necessary for Marantz products. You can use these products without setting any codes.

1. Press the **SOURCE** button.

For this example, press DVD. Pressing the **SOURCE** button once changes the remote control to the settings for the source that was pressed.

To change the amplifier on other source, press the **SOURCE** button twice (double-click). The code is sent, and then the amplifier source changes to DVD.

SETTING THE BACK LIGHT

Each time press the buttons, illuminate button 2 seconds.

To turn off back light, press and hold down the **SET** and **OFF** button until SEND indicator blinks twice. To turn on it again, press and hold down the **SET** and **ON** button until SEND indicator blinks twice. Initial is back light ON.

PRESET MODE

(When operating non-Marantz AV equipment products)

This remote controller is preset with remote control codes from AV equipment by other manufacturers. The preset codes are TV, VCR, DVD and DSS. Settings can be made in one of two ways.

When the preset codes are set, the following codes are contained in the source button of the remote controller.

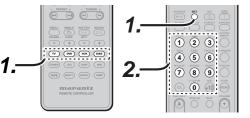
See the attached manufacturer number list for the preset manufacturers, devices, preset numbers, and other settings.

Remote controller source name	Corresponding preset code	Device name
TV	TV	Television
DVD	DVD	DVD player
VCR	VCR	Video deck
DSS	SATELLITE	Satellite broadcasting tuner equipment

Importants:

- Some codes may be not match your equipment. In this case, you can use LEARN mode to store these codes.
- The preset codes do not cover full functions. If you need extra function, use LEARN mode to store extra function.
- Wen the batteries are getting weak, the preset procedure is not successful.

PROGRAMMING WITH THE 4-DIGIT CODE



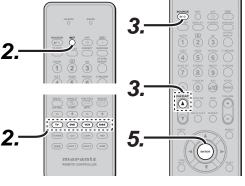
- Press and hold down the SOURCE button for the appliance which should be controlled and press SET button until the SEND indicator blinks twice. Then back light flushes.
- 2. Press the 4-digit code for appliance (code table at the end of this book)

When the procedure is successful, the SEND indicator will blink twice.

Note:

If the indicator did not blink twice, then repeat steps 1 through 2 and try entering the same code again.

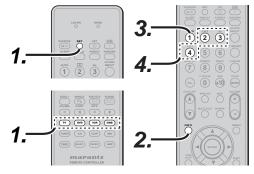
SCANNING THE CODE TABLE



1. Switch on the appliance which should be controlled.

- Press and hold down the SOURCE button for appliance which should be controlled and press SET button until the SEND indicator blinking twice. Then back light flushes.
- **3.** Aim the remote control at the appliance and slowly alternate between pressing **CH+** button and the **SOURCE ON/OFF** button for the appliance.
- 4. Stop when the appliance turns off.
- 5. Press ENTER button once to lock in the code.

CHECKING THE CODE



- Press and hold down the SOURCE button for appliance which should be controlled and press SET button until the SEND indicator blinking twice then back light flushes.
- 2. Press the INFO button.

The SEND indicator will blink twice.

3. To view the code for first digit, press **1** once.

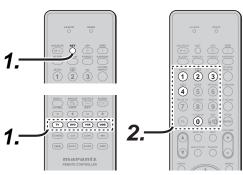
Wait 3 seconds, count the SEND indicator blinks (e.g. 3 blinks = 3) and write down the number.

Note:

If a code digit is "0", the SEND indicator will not blink.

 Repeat step 3 three more times for remaining digits. Use 2 for the second digit, 3 for the third digit, and 4 for the fourth digit.

RESETTING THE CODE



- Press and hold down the SOURCE button for appliance which should be controlled and press SET button until the SEND indicator blinking twice.
 - Then back light flushes.
- 2. Press the below codes to reset.
 - TV : 1000 DVD : 2000 VCR : 3000
 - DSS : 4000

The indicator will blink twice.

Note:

After this procedure, the selected **SOURCE** button is set initial code.

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LEARN MODE

This remote controller is capable of learning and storing codes used by other remote controls that you already own.

For codes which are not learned, the remote controller will transmit either the Marantz preset codes from the initial settings, or remote codes from another manufacturer's AV equipment which is set by the customer.

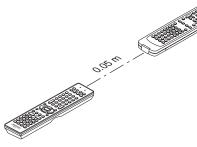
The receiver sensor for the remote controller signals is located at the top of the remote controller.

Notes:

- This remote controller is capable to learn around 60 codes.
- When the batteries are getting weak, the learing procedure is not successful.

LEARNING PROCEDURE

1. Place the remote controller so that its infrared signal transmitter is facing the infrared signal receiver on the Marantz remote controller at a distance of about 0.05 m (2 inches).



2. Press and hold down the SET and MENU buttons until LEARN indicator blinks



3. Select the SOURCE button to select the SOURCE.



4. Select the button to be learned. LEARN indicator lights up.



Press and hold the button of the original remote controller to learn until the SEND indicator blinks twice.

Notes:

- · When the SEND indicator blinks once, repeat this step.
- If the LEARN indicator flashes when the SEND indicator is lit, then the button cannot be learned.
- When the memory of the remote controller is full, the LEARN and SEND indicators blink once. If you want to learn the code, you should erase other learned button.
- 6 Repeat steps 4 and 5 to learn other buttons in same SOURCE.
- 7. Repeat steps 3 to 6 to learn other SOURCE.
- When you have finished programming the remote controller, press the SET button, then LEARN indicator stops blinking and exits from the LEARN mode.

	O	O	
SOURCE			
AUTO		dta	LIP SYNC/ INPUT

- When the SEND indicator blinks once again, the transmitting code is unavailable for remote controller, or the transmitting signal is intercepted by noise.
- If no buttons are pressed for approximately 1 minutes while in the LEARN mode, the remote controller automatically exits from the LEARN mode.

ERASING PROGRAMMED CODES (RETURNING TO INITIAL SETTINGS)

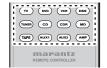
Codes can be erased in three ways: by buttons, sources, and by all memory contents.

Erasing the code by buttons

1. Press and hold down the SET and MENU buttons until LEARN indicator blinks.



2. Select the SOURCE button to select the button to be erased.



3. Press and hold down the SLEEP button and press the learned button twice to be erased. SEND indicator blinks twice and the mode returns to LEARN mode.



4. To return the NORMAL mode, press the SET button.

Erasing the code by SOURCE

1. Press and hold down the SET and MENU buttons until LEARN indicator blinks.



2. Press and hold down the SLEEP button and press the learned SOURCE button twice to be erased.

- + - +

TV DVD VCR DSS TUNER CD CDR MD

TAPE AUX1 AUX2 AMP

LEARN indicator lights.



3. Press ENTER button to continue erasing. · The SEND indicator blinks twice and the mode returns to LEARN mode.

 To cancel the erasing operation, do not press ENTER button and simply touch any other button.



4. To return the NORMAL mode, press the SET button.

Erasing the all SOURCES

1. Press and hold down the **SET** and **MENU** buttons until LEARN indicator blinks.



Press and hold down the SLEEP button and 2. press POWER ON and POWER OFF button. LEARN indicator lights.



- 3. Press ENTER button to continue erasing. · The SEND indicator blinks twice and the mode returns to LEARN mode.
 - To cancel the erasing operation, do not press ENTER button and simply touch any other button.



4. To return the NORMAL mode, press the SET button.

Note:

Erasing codes will return to the factory preset code, or there will leave empty if the button has no factory preset code.



Notes:

ENGLISH

CONNECTIONS

SPEAKER PLACEMENT

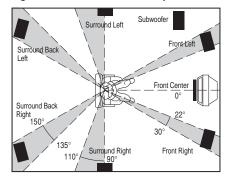
The ideal surround speaker system for this unit is 7speaker systems, using front left and right speakers, a center speaker, surround left and right speakers, a surround back left and right speakers, and a subwoofer.

For best results we recommend that all front speakers be of the same type, with identical or similar driver units. This will deliver smooth pans across the front sound stage as the action moves from side to side. Your center channel speaker is very important as over 80% of the dialog from a typical motion picture emanates from the center channel.

It should possess similar sonic characteristics to the main speakers. Surround channel speakers need not be identical to the front channel speakers, but they should be of high quality.

The surround back speaker is useful for playback of Dolby Digital Surround EX or DTS-ES. One of the benefits of both Dolby Digital and DTS is that surround channels are discrete full range, while they were frequency limited in earlier "Pro Logic' type systems.

Bass effects are an important part of home theater. For optimal enjoyment a subwoofer should be used as it is optimized for low frequency reproduction. If you have full range front speakers, however, they may be used in place of a subwoofer with proper setting of the switches in the menu system.



Front left and right speakers

We recommend to set the front L and R speakers with 45-60 degrees from the listening position.

Center speaker

Align the front line of the center speaker with the front L/R speakers. Or place the center speaker a little backward from the line.

Surround left and right speakers

When this unit is used in surround operation, the preferred location for surround speakers is on the side walls of the room, at or slightly behind the listening position.

The center of the center speaker should face the center of the room.

Surround back left and right speakers

Surround back speakers are required when a full 7.1channel system is installed.

Speakers should be placed on a rear wall, behind the listening position.

The center of the center speaker should face the center of the room.

Subwoofer

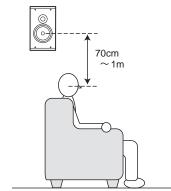
We recommend using a sub-woofer to have maximum bass effect. As the subwoofer only handles low frequencies, you can place it any where in the room.

HEIGHT OF THE SPEAKER UNITS

Front left and right speakers, and a center speaker Align the tweeters and mid-range drivers on the three front speakers at the same height, as best as possible.

Surround left and right speakers, and surround back speaker

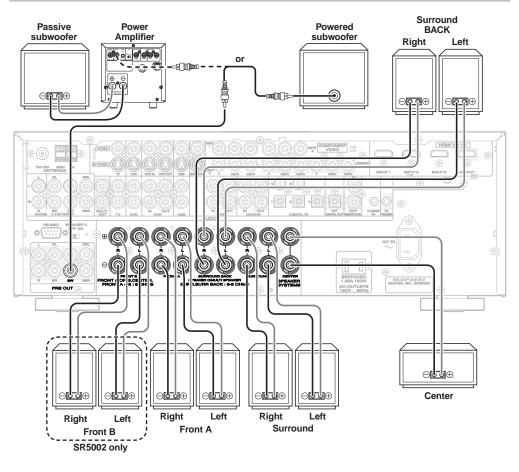
Place the surround left, right and surround back speakers higher than your ears by about 70cm - 1m. Also place the speakers at the same height, as best as possible.



Note:

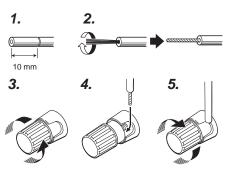
Use magnetically-shielded speakers for front left, right and the center speakers when the speakers are installed near the TV.

CONNECTING SPEAKERS



CONNECTING SPEAKER WIRE

- **1.** Strip away approx. 3/8 inch (10 mm) of wire insulation.
- **2.** Twist the bared wire ends tight, to prevent short circuits.
- **3.** Loosen the knob by turning it counterclockwise.
- **4.** Insert the bare part of the wire into the hole in side of each terminal.
- **5.** Tighten the knob by turning it clockwise to secure the wire.



Caution:

- Be sure to use speakers with the specified impedance as shown on the rear panel of this unit.
- To prevent damage to circuitry, do not let the bare speaker wires touch each other and do not let them touch any metal part of this unit.
- Do not touch the speaker terminals when the power is on. It may cause you to receive an electric shocks.



• Do not connect more than one speaker cable to one speaker terminal. Doing so may damage this unit.

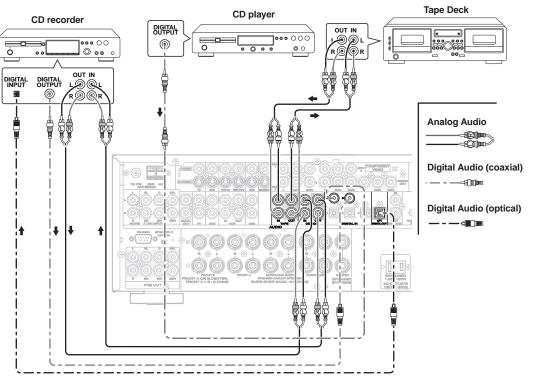
Note:

Be sure to connect the positive and negative cables for the speaker properly. If they are miss-connected, the signal phase will be reversed and the signal quality will be corrupted.

CONNECTING A SUBWOOFER

Use the PRE OUT SUBWOOFER jack to connect a powered subwoofer (power amplifier built in). If your subwoofer is a passive type (power amplifier is not built in), connect a monaural power amplifier to the PRE OUT SUBWOOFER jack and connect the subwoofer to the amplifier.

CONNECTING AUDIO COMPONENTS



The output audio signal from the TAPE OUT jack and the CD/CD-R OUT jack is the same signal which is currently selected.

Caution:

Do not connect this unit and other components to mains power until all connections between components have been completed.

Notes:

- Insert all plugs and connectors securely. Incomplete connections may make noise.
- Be sure to connect the left and right channels properly.

Red connectors are for the R (right) channel, and white connectors are for the L (left) channel.

- Be sure to connect input and output properly.
- Refer to the instructions for each component that is connected to this unit.
- Do not bind audio/video connection cables with power cords and speaker cables this will result in generating a hum or other noise.

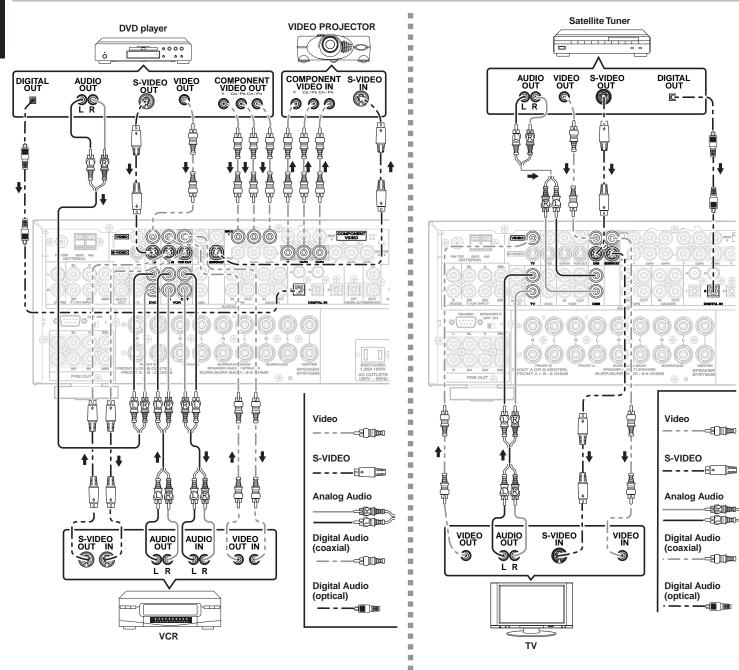
CONNECTING DIGITAL AUDIO COMPONENTS

- There are 4 digital inputs (SR4002), 5 digital inputs (SR5002), 2 coaxial jacks and 2 optical jacks (SR4002), 3 optical jacks (SR5002), on the rear panel. You can use these jacks to input PCM, Dolby Digital and DTS bitstream signals from a CD, DVD, or other digital source components.
- There is one optical output jack on the rear panel. These jacks can be connected to a CD recorder, or a MD deck inputs, respectively.
- Refer to the instructions for each component. To setup the digital audio format of DVD player, or other digital source's connected to digital input jacks.
- Use fiber optical cables (optical) for DIG-1,2 (SR4002), DIG-1,2,3 (SR5002), input jacks. Use 75 ohms coaxial cables (for digital audio or video) for DIG-3,4 (SR4002), DIG-4,5 (SR5002), input jacks.
- You can designate the input for each digital input/ output jacks according to your component. See page 27.

Notes:

- There is no Dolby Digital RF input jack. Please use an external RF demodulator Dolby Digital decoder when connecting the Dolby Digital RF output jack of the video disc player to the digital input jack.
- The digital signal jacks on this unit conform to the EIA standard. If you use a cable that does not conform to this standard, this unit may not function properly.
- Each type of audio jack works independently. Signals input through the digital and analog jacks are output through the corresponding digital and analog jacks, respectively.

CONNECTING VIDEO COMPONENTS



VIDEO, S-VIDEO, COMPONENT JACKS

There are 3 types of video jacks on the rear panel.

VIDEO iack

The video signal for the VIDEO jacks is the conventional composite video signal.

S-VIDEO iack

The video signal is separated into luminance (Y) and color (C) signals for the S-VIDEO jack. The S-VIDEO signals enables high-quality color reproduction. If your video component has an S-VIDEO output, we recommend to use it. Connect the S-VIDEO output iack on your video component to the S-VIDEO input jack on this unit.

Component jack

Make component video connections to a TV or monitor with component inputs to produce higher quality video images. Use a component video cable or 3 video cords to connect the component video out jacks on the unit to the monitor.

Notes:

.0

-:Qim-⁄

- · Be sure to connect the left and right audio channels properly.
- Red connectors are for the R (right) channel, and white connectors are the for L (left) channel.
- · Be sure to connect the inputs and outputs of the video signals properly.
- · This unit has the "TV-AUTO ON/OFF" function to turn the TV ON or OFF automatically, by sensing the incoming video signal from the VIDEO jacks.
- You may need to setup the digital audio output format of your DVD player, or other digital source components. Refer to the instructions of the each component connected to the digital input jacks.
- There is no Dolby Digital RF input jack. Use an external RF demodulator with a Dolby Digital decoder to connect the Dolby Digital RF output jack of the DVD player to the digital input jack on this unit.
- The COMPONENT OUTPUT 1 and 2 terminals of the SR5002 can output the same video signal.
- For details concerning the connection of Video equipment, please see VIDEO CONVERT (page 35).

CONNECTING HDMI COMPONENTS

HDMI JACK

This unit has 3 HDMI inputs and one HDMI output. It can send digital video and audio signals from DVDs and other sources directly to a display. It minimizes signal degradation caused by analog conversion so that high quality images can be enjoyed.

Select an input source from the OSD menu system. (See page 27)

Notes:

- When the HDMI output is connected to a display monitor that does not support HDCP*, signals are not output. To view images in HDMI, it is necessary to connect to a display that supports HDCP*.
- There may be no image output if connected to a TV or display that is not compatible with the above format.
- Refer to the instruction manual of the TV or display to be connected to the unit for detailed information regarding the HDMI terminal.
- * HDCP: High-bandwidth Digital Content Protection

CONNECTING HDMI COMPONENTS

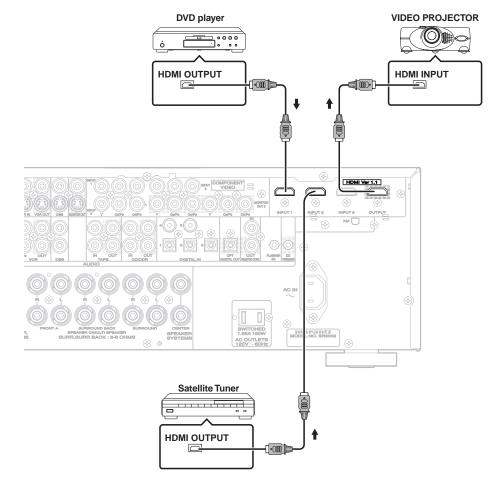
An HDMI cable (sold separately) is used to connect the HDMI jack on the unit with the HDMI jack on a DVD player, TV, projector or other component. To transmit multichannel audio via HDMI, the connected player must support multichannel audio transmission through its HDMI jack.

HDMI video streaming is compatible with DVI in principle. Therefore, it is possible to connect to a TV or monitor that has a DVI terminal using an HDMI-DVI conversion cable or plug. When connecting to a DVI terminal, connect the audio signal separately.

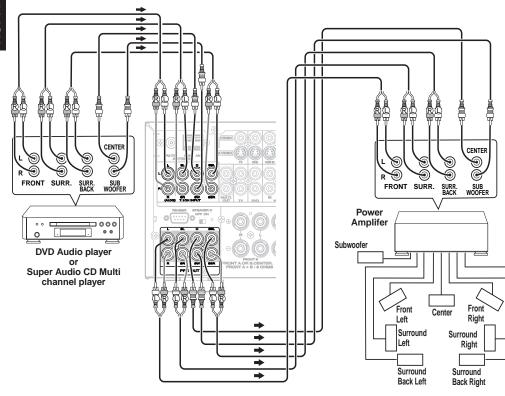
Notes:

- Some HDMI components can be controlled over the HDMI cable, but this unit cannot control other components this way.
- When connected to a monitor (i.e., TV, projector, etc.) that does not support HDCP, video and audio are not output.
- DVI cables come with 24-pin and 29-pin plugs. This unit supports 24-pin DVI-D cables; 29-pin DVI cables cannot connect to it.
- Some source devices such as DVD players does not support HDMI repeater like those of the unit. In such case, pictures are not properly projected on monitors such as TVs and projectors.

- When multiple components are connected to this unit, turn power to unused components off to prevent interference between them.
- Disconnecting or connecting cables with the power on can damage the equipment. Turn the power off before disconnecting or connecting cables.
- Some DVD-Audio disks disable downmixing. These types of disks are not played back correctly unless the left, center, right and surround left and right speakers, and subwoofer are connected.
- If a DVD player that does not support HDMI 1.1 is connected to the unit, multi channel PCM playback is not possible even with DVD-Audio disks.
- If a DVD player or other device with DVI output is connected to the unit, a separate audio cable (opticaldigital, coaxial digital or analog) is needed for the audio signals. In this case, select the connected audio input as explained in "1 INPUT SETUP". (See page 27)
- Multi channel PCM signals and audio signals of 64 kHz or higher that are input from the HDMI jack are not output from the DIGITAL OUT jacks.
- Depending on the quiality of the cable used, the HDMI signal may be affected by noise.
- Audio units that use sampling frequencies of 128 kHz and above are not supported.
- When only HDMI components are connected, OSD will not be displayed. (See page 26)



ADVANCED CONNECTING



CONNECTING MULTI CHANNEL AUDIO SOURCE

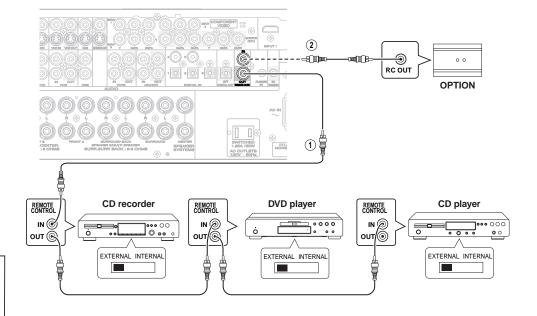
The 7.1CH INPUT jacks are for multichannel audio source such as a Super Audio CD multichannel player, DVD audio player or external decoder. If you use these jacks, switch on the 7.1CH INPUT and set the 7.1CH INPUT level by using the SETUP MAIN MENU. See page 31.

CONNECTING AN EXTERNAL POWER AMPLIFIER

The PREOUT jacks are for connecting external power amplifiers.

Be sure to connect each speaker to the corresponding external power amplifier.

CONNECTING THE REMOTE CONTROL JACKS



(2)

You can control other Marantz products through this unit with the remote controller by connecting the REMOTE CONTROL terminals on each unit.

The signal transmitted from the remote controller is received by the remote sensor on this unit. Then the signal is sent to the connected device through this terminal. Therefore you need to aim the remote signal only to the unit. Also, if a Marantz power amplifier (some models excluded) is connected to one of these terminals, the power amplifier's, power switch is synchronized with this unit's power switch.

Set the REMOTE CONTROL SWITCH on the back of other units (not the SR4002/SR5002) to "EXT".(EXTERNAL) to use this feature.

Whenever external infrared sensors or similar devices are connected to RC-5 IN of the unit, be sure to always disable operation of the infrared sensor on the unit by using the following procedure.

- Hold down the 7.1CH INPUT (SR4002) / MULTI (SR5002) button and MENU button on the front panel at the same time for five seconds.
- **2.** The setting "IR=ENABLE" is shown on the FL DISPLAY.
- 3. Press the ◄ or ► cursor button to change this to "IR=DISABLE".
- **4.** Press the **ENTER** button. Once this setting is made, the infrared sensor on the unit is disabled.

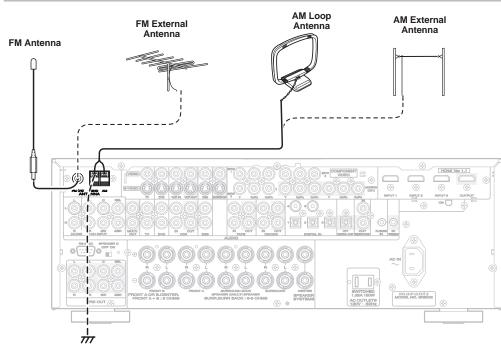
Note:

Be sure to set to "IR=ENABLE" when external infrared sensors or similar devices are not connected. Otherwise, the unit will be unable to receive remote control commands.

5. To restore the original setting, perform steps 1 to 4 to set to "IR=ENABLE".

ENGLISH

CONNECTING THE ANTENNA TERMINALS



ASSEMBLING THE AM LOOP ANTENNA

- **1.** Release the vinyl tie and take out the connection line.
 - $\bigcirc \rightarrow \bigcirc \bigcirc$



4. Place the antenna on stable surface.

2. Bend the base part in the reverse direction.



3. Insert the hook at the bottom of the loop part into the slot at the base part.



CONNECTING THE SUPPLIED ANTENNAS

Connecting the supplied FM antenna

The supplied FM antenna is for indoor use only. During use, extend the antenna and move it in various directions until the clearest signal is received. Fix it with push pins or similar implements in the position that will cause the least amount of distortion. If you experience poor reception quality, an outdoor antenna may improve the quality.

Connecting the supplied AM loop antenna

The supplied AM loop antenna is for indoor use only.

Set it in the direction and position it to where you receive the clearest sound. Put it as far away as possible from the unit, televisions, speaker cables, and power cords.

If you experience poor reception quality, an outdoor antenna may improve the quality.

- **1.** Press and hold down the lever of the AM antenna terminal.
- 2. Insert the bare wire into the antenna terminal.
- **3.** Release the lever.

CONNECTING AN FM OUTDOOR ANTENNA

Notes:

- Keep the antenna away from noise sources (neon signs, busy roads, etc.).
- Do not put the antenna close to power lines. Keep it well away from power lines, transformers, etc.
- To avoid the risk of lightning and electrical shock, grounding is necessary.

CONNECTING AN AM OUTDOOR ANTENNA

An outdoor antenna will be more effective if it is stretched horizontally above a window or outside.

Notes:

- Do not remove the AM loop antenna.
- To avoid the risk of lightning and electrical shock, grounding is necessary.

XM RADIO OVERVIEW (SR5002 ONLY)

SR5002 is the XM Ready[®] receiver. You can receive XM Satellite Radio[®] by connecting to the XM Mini-Tuner and Home Dock (sold separately) and subscribing the XM service.

Introducing XM Satellite Radio

There's a world of audio listening pleasure beyond AM and FM. XM Satellite Radio which includes:

- Over 170 Digital Channels
- The most commercial-free music in satellite radio
- Live concerts plus exclusive original programming
- · The biggest names in news, talk, and entertainment
- The most sports play-by-play
- Major league Baseball. Every team. All season long.

Questions? Visit <u>www.xmradio.com <http://www.xmradio.com/></u>

How to Subscribe

Listeners can subscribe by visiting XM on the Web at www.xmradio.com or by calling XM's Listener Care at (800) 967-2346. Customers should have their Radio ID and credit card ready. The Radio ID can be found by selecting channel 0 on the radio.

(See the "CHECKING THE XM SIGNAL STRENGTH AND RADIO ID")

A Warning Against Reverse Engineering

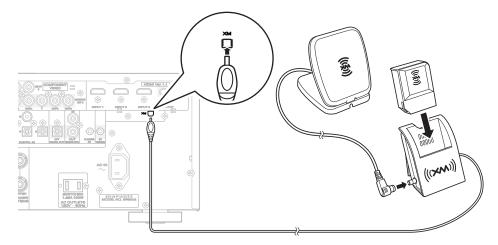
It is prohibited to copy, decompile, disassemble, reverse engineer, or manipulate any technology incorporated in receivers compatible with the XM Satellite Radio system.

Furthermore, the AMBE[®] voice compression software included in this product is protected by intellectual property rights including patent rights, copyrights, and trade secrets of Digital Voice Systems, Inc. The user of this or any other software contained in an XM Radio is explicitly prohibited from attempting to copy, decompile, reverse engineer, or disassemble the object code, or in any other way convert the object code into human-readable form. The software is licensed solely for use within this product.

XM \$ 12.95 monthly service subscription sold separately. XM Mini-Tuner and Home Dock 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. Channle 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, XMDirect*] are trademarks of XM Satellite Radio Inc. © 2006 XM Satellite Radio Inc. All rights reserved.

CONNECTING THE XM CONNECT-AND-PLAY ANTENNA

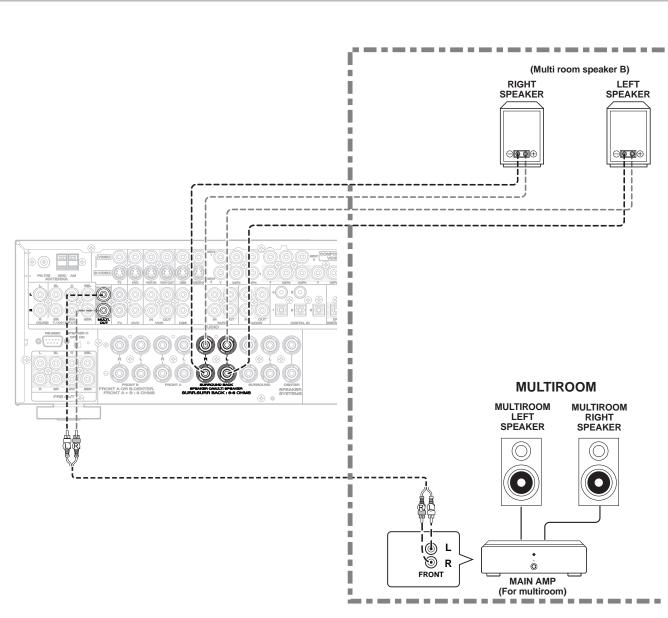
- Plug the XM Mini-Tuner and Home Dock into XM terminal on the rear panel.
- Position the XM antenna near a south-facing window to receive the best signal.
 When making connections, also refer to the operating instructions of the XM Mini-Tuner and Home Dock.



Note

• Keep the power supply cord unplugged until the XM Mini-Tuner and Home Dock connection have been completed.

CONNECTING FOR THE MULTI ROOM (SR5002 only)



CONNECTING FOR SPEAKER C USE (SR5002 only)

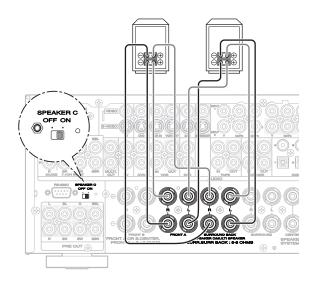
Bi-amp Connection

A bi-amp connection is possible with speakers that have two sets of inputs (for treble and bass).

This allows you to drive the treble and bass units with separate channel amps, which enables better sound quality. Connect the speakers as shown in the figure. Set the SPEAKER C selector switch on the rear panel to ON.

Notes:

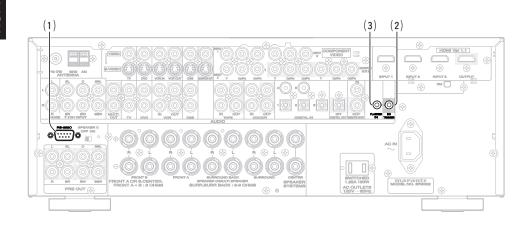
- If incorrectly connected, a protective circuit in the SR5002 will trip and set the SR5002 to standby. (The STANDBY indicator will flash.) In such case, recheck the connections between the speakers and the SR5002.
- Turn power to the SR5002 off before changing the setting of the SPEAKER C selector switch.



Note:

You can use surround back speaker terminals as multi room speaker terminals when you use no surround back speaker.

CONNECTING OTHER EQUIPMENT



(1) RS232C

Connect an external control device or other device for servicing. (Use a straight cable for the connection.)

(2) DC OUT (DC TRIGGER)

External devices can be controlled from the SR5002 by connecting them to the DC OUT terminal (12 V). (See page 30)

(3) FLASHER IN

This unit can be controlled by connecting a control box or other control device to this unit.

SETUP

After all components are connected, initial setup must be performed.

ON SCREEN DISPLAY MENU SYSTEM

This unit incorporates an on-screen menu system, which makes various operations possible by using the cursor (\blacktriangle , \blacktriangledown , \blacklozenge) and **ENTER** buttons on the remote control or on the front panel.

Note:

To view the on-screen displays, make certain you have made a connection from the Monitor Out jack on the rear panel to the composite, S-Video, component video input of your TV or projector. (see page20)

- Press the AMP button of the remote controller.(This step is not needed when operating the setup menus from the unit itself.)
- Press the MENU button on the remote controller or set to display the "SETUP MAIN MENU" of the OSD menu system.

There are 8 items in the SETUP MAIN MENU.

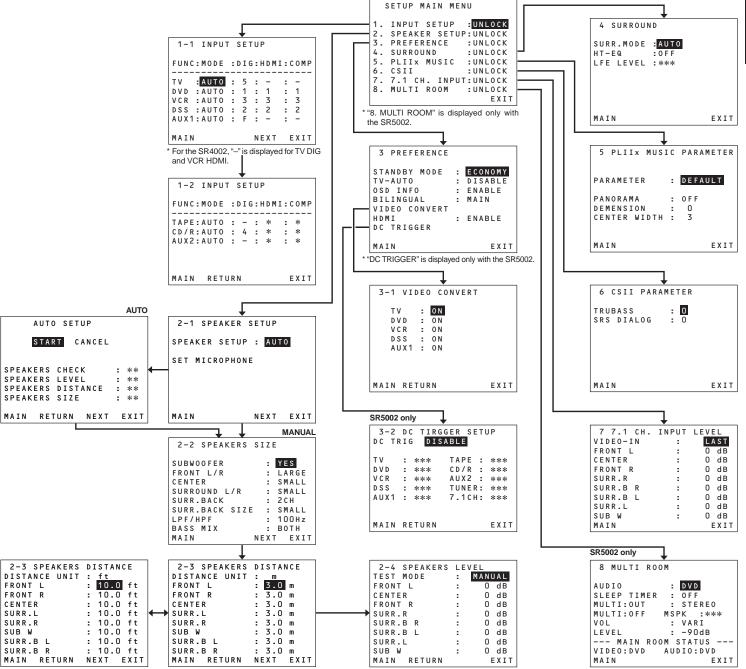
Select a desired sub-menu with the ▲ or ▼ cursor buttons, and press the ENTER button to enter. The display will change to the selected sub-menu. You can lock the condition of setup to each sub-menu with the ◄ or ▶ or cursor buttons.

Note:

If you desire to adjust any sub-menu, you need to set it to UNLOCKED.

4. If you desire to exit from this menu system, press the **EXIT** button, or move the cursor to **EXIT** and press the **ENTER** button.

When only HDMI components are connected, the OSD menu will not be displayed on the screen.



ENGLISH

1 INPUT SETUP (ASSIGNABLE DIGITAL INPUT AND COMPONENT VIDEO INPUT)

Use this menu to select the input jack to be assigned to the input source.

1. Select "INPUT SETUP" in SETUP MAIN MENU with ▲ or ▼ cursor button, and press the ENTER button.

> 1-1 INPUT SETUP FUNC:MODE :DIG:HDMI:COMP тν :AUTO : 5 : - : -DVD : AUTO : 1 : 1 : 1 VCR : AUTO : 3 : 3 : 3 DSS : AUTO : 2 : 2 : 2 AUX1:AUT0 : F : - : -NEXT EXIT MAIN

* For the SR4002, "-" is displayed for TV DIG and VCR HDMI.

	1	-	2		I	N	P	U [.]	Т		s	E	т	U	Ρ								_
F	U	N	С	:	М	0	D	E		:	D	I	G	:	н	D	M :	I	:	С	0	M	Ρ
T C	A	P /	E R	:	AA	U U	T T	0 0				-4		:		* *			:		* *		
A	U	x	2	:	A	U	T	0				-		:		*			•		*		
Μ	A	I	N			R	E	τı	JI	R	N									E	х	I	Т

- 2. To select the input source and MODE, press the \blacktriangle or \checkmark cursor buttons.
- 3. To select "DIG" "HDMI" or "COMP" for the input jack, press the ◀ or ► cursor buttons.

Select "AUTO" for input sources, for automatic detection of the digital input signal condition.

If there is not a digital signal present, but there is an analog signal present, the analog signal will be played.

Select "DIG", when only a digital signal will be used. Select "ANA" for input sources for which no digital input jacks are used.

- To select the vdieo source, select "HDMI" or 4. "COMP" by pressing the \blacktriangle or \checkmark cursor buttons. and press the ◀ or ► cursor buttons to select the vdieo source to be assigned .
- 5. After you complete this portion of the set up, move the cursor to MAIN with the ▲ or ▼ cursor buttons and press the ENTER button.

Notes:

- When the TUNER is fixed to the analog input, you can not select any digital input.
- When a DTS-LD or DTS-CD is playing, this setup is not available. This is to avoid noise being generated from the analog input.
- If "AUTO" is selected and a DVD, compact disc or LD is fast-forwarded during playback, decoded signals may produce a skipping sound. In such cases, change the setting to "DIG".

2 SPEAKER SETUP

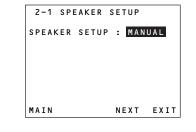
After you have installed the unit, connected all the components, and determined the speaker lavout, it is now time to perform the settings in the Speaker Setup menu for the optimum sound acoustics for your environment and speaker layout.

Before you perform the following settings, it is important that you first determine the following characteristics:

1 Select "SPEAKER SETUP" in SETUP MAIN MENU with \blacktriangle or \checkmark cursor button, and press the ENTER button.

2-1 SPEAKER SETUP

Speakers are set up by selecting either MANUAL or AUTO using the ◀ and ► cursor buttons. For operation when AUTO has been selected, see MRAC on page 29.



2-2 SPEAKERS SIZE

When setting the speaker size in the SPEAKER SIZE sub-menu, use the guidelines given below. LARGE:

The complete frequency range for the channel you are setting will be output from the speaker.

SMALL:

Frequencies of the channel you are setting lower than approx. 100 Hz will be output from the subwoofer.

If the Subwoofer is set to "NONE", the setting of the front speakers will be fixed to "LARGE." and the sound will be output from both the left and right speakers.

2-2 SPEAKERS	SIZE
SUBWOOFER	: YES
FRONT L/R	: LARGE
CENTER	: SMALL
SURROUND L/R	: SMALL
SURR.BACK	: 2 C H
SURR.BACK SIZE	: SMALL
LPF/HPF	: 100Hz
BASS MIX	: BOTH
MAIN	NEXT EXIT

- **1**. To select the each speaker, press the \blacktriangle or \blacktriangledown cursor buttons.
- 2. To select the setting of each speaker size, press the ◀ or ► cursor buttons.
- **3** After you complete this portion of the set up, move the cursor to "NEXT" with the ▲ or ▼ cursor buttons and then press the ENTER button to go to the next page.

SUBWOOFER:

YES:

Select when a subwoofer is connected. NONE:

Select when a subwoofer is not connected.

FRONT L/R

LARGE:

Select if the front speakers are large. SMALL:

Select if the front speakers are small.

• If "NONE" is selected for the Subwoofer setting, then this setting is fixed to "LARGE."

CENTER

NONE:

Select if no center speaker is connected.

LARGE:

Select if the center speaker is large.

SMALL:

Select if the center speaker is small.

SURROUND L/R

NONE:

Select if no surround left and right speakers are connected.

LARGE:

Select if the surround left and right speakers are large.

SMALL:

Select if the surround left and right speakers are small.

SURR. BACK

NONE:

Select if no surround back left and right speakers are connected.

2CH:

Select if the surround back left and right speakers are connected.

1CH:

Select if the one surround back speaker is connected.

In this case, the audio signal is emitted form the Surround back L output terminal.

Notes:

- If "NONE" is selected for the Surround L/R setting, then this setting is fixed to "NONE."
- You can use surround back speaker terminals as multi room speaker terminals when you use no surround back speaker. (See page 22)

SURR. BACK SIZE

LARGE:

Select if the surround back speaker is large. **SMALL:**

Select if the surround back speaker is small.

Note:

If "NONE" is selected for the Surround L/R setting, then this setting is not available.

LPF/HPF

When you use a subwoofer, you can select the cutoff frequency for the small speakers used. Select one of the crossover frequency levels according to the size of the small speaker connected.

 $80Hz \rightarrow 100Hz \rightarrow 120Hz \rightarrow 150Hz \rightarrow 180Hz$

Notes:

- If using small front speakers, set a slightly higher frequency. If using large front speakers, set a slightly lower frequency.
- If Pure-Direct mode, 7.1CH Input is in use, this function does not take effect.

BASS MIX

• The bass mix setting is only valid when "LARGE" is set for the front speakers and "YES" is set for the subwoofer during stereo playback .

This setting has effect only during playback of PCM or analog stereo sources.

 When "BOTH" is selected, the low frequencies will be played through the main L&R, as well as the sub woofer.

In this playback mode, the low frequency range expand 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.

 By selecting "MIX", the low frequencies will play through the main L&R ONLY.

Note:

LFE signals during playback of Dolby Digital or DTS, will be played through the sub woofer.

2-3 SPEAKERS DISTANCE

Use this parameter to specify the distance of each speaker's position from the listening position. The delay time is automatically calculated according to these distances.

Begin by determining the ideal or most commonly used seating position in the room.

This is important for the timing of the acoustics to create the proper sound space that the unit and today's sound systems are able to produce.

Note:

For speakers that you have selected "**NONE**" the Speaker Configuration sub-menu will not appear here. (There are several useful books and special DVD and LD's available to guide you through proper home theater configuration. If you are unsure, have your Marantz dealer perform the installation for you. They are trained professionals familiar with even the most sophisticated custom installations. Marantz recommends the WWW.CEDIA.ORG website for further information about this).

2-3 SPEAKERS	DISTANCE
DISTANCE UNIT	: ft
FRONT L	: 10.0 ft
FRONT R	: 10.0 ft
CENTER	: 10.0 ft
SURR.L	: 10.0 ft
SURR.R	: 10.0 ft
SUB W	: 10.0 ft
SURR.B L	: 10.0 ft
SURR.B R	: 10.0 ft
MAIN RETURN	NEXT EXIT

- To select each speaker , press the ▲ or ▼ cursor buttons.
- After you complete this portion of the set up, move the cursor to "NEXT" with the ▲ or ▼ cursor buttons and then press the ENTER button to go to the next page.

FRONT L:

Set the distance from the front left speaker to your normal listening position.

CENTER:

Set the distance from the center speaker to your normal listening position.

FRONT R:

Set the distance from the front right speaker to your normal listening position.

SURR. L:

Set the distance from the surround left speaker to your normal listening position.

SURR. R:

Set the distance from the surround right speaker to your normal listening position.

SUB W:

Set the distance from the subwoofer to your normal listening position.

SURR. B L:

Set the distance from the surround back left speaker to your normal listening position.

SURR. B R:

Set the distance from the surround back right speaker to your normal listening position.

Notes:

- Set the distance to each speaker in meters (m) or feet (ft) as follows.
 - m: 0.1 9 m in 0.1 m steps
 - ft: 0.3 30 ft in 0.3 ft steps
- For the speakers that you have selected "NONE" the Speaker Size menu will not appear.
- The setting for Surr.Back L and Surr.Back R appears if you set for it to, two surround back speakers in the Speaker Size menu.
- The setting of Surr.Back appears if it is set for one surround back speaker in the Speaker Size menu.

2-4. SPEAKERS LEVEL SETTING WITH TEST TONE

Here you will set the volume for each speaker so that they are all heard by the listener at the same level. We recommend using a SPL (Sound Pressure Level) meter, when available.

Note:

The speaker level settings are not available in 7.1 Channel Input mode, CS mode and Multi Channel Stereo mode.

2-4 SPEAKERS	LEV	ΕL	
TEST MODE	:	MANU	JAL
FRONT L	:	0	d B
CENTER	:	0	d B
FRONT R	:	0	d B
SURR.R	:	0	d B
SURR.B R	:	0	d B
SURR.B L	:	0	d B
SURR.L	:	0	d B
SUB W	:	0	d B
MAIN RETURN		E	EXIT

TEST MODE :

Selects "MANUAL" or "AUTO" for generating the mode of the test tone with the \blacktriangleleft or \blacktriangleright cursor buttons.

If you select "**AUTO**", the test tone will be cycled through in a circular pattern which is Left \rightarrow Center \rightarrow Right \rightarrow Surround Right \rightarrow Surround Back Right \rightarrow Surround Back Left \rightarrow Surround Left \rightarrow Subwoofer \rightarrow Left \rightarrow .. increments of 2 seconds for each channel.

Using the \blacktriangleleft or \triangleright cursor buttons, adjust the volume level of the noise from the speaker so that it is the same level for all the speakers.

If you select "MANUAL", adjust the output level of each speaker as listed below.

 When you move the cursor to FRONT L by pressing the ▼ cursor button, the unit will emit a pink noise from the front left speaker.

Remember the level of this noise and then press the $\mathbf{\nabla}$ cursor button.

(Note that this can be adjusted to any level between -10 and +10 dB in 1 dB intervals except the subwoofer setting. The subwoofer can be adjusted to any level between -15 and +10 dB in 1 dB intervals.)

The unit will now emit the pink noise from the center speaker.

- Using the

 and
 cursor buttons, adjust the volume level of the noise from the center speaker so that it is the same level as the front left speaker.
- **3.** Press the ▼ cursor button again. The unit will now emit the pink noise from the front right speaker.
- **4.** Repeat steps **2** and **3** above for the front right and other speakers until all speakers are adjusted to the same volume level.

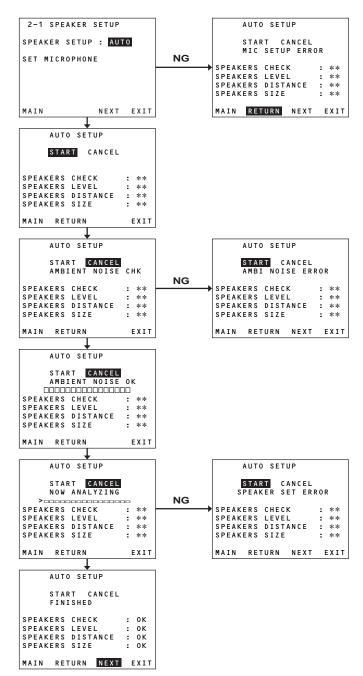
After you complete this portion of the set up, press the **ENTER** button, the cursor will move to "**MAIN**" and then press the **ENTER** button to go to SETUP MAIN MENU.

Notes:

- Speakers that you selected "NONE" for in the Speaker Size menu will not appear.
- The setting of Surr.Back L and Surr.Back R appears if you have set it for two surround back speakers in the Speaker Size menu.
- The setting of Surr.Back appears if you have set it for one surround back speaker in the Speaker Size menu.
- To adjust the speaker levels for 7.1-channel input sources, you will need to use the 7.1CH-INPUT sub menu. (See page 31).

MRAC (Marantz Room Acoustic Calibration)

Speaker settings that were difficult by MANUAL setup can now be made by automatically measuring speaker characteristics using the including microphone.



Measurement

During measurement, a test tone is output from the speakers, which is then measured and analyzed though the microphone. The measurement flow and items are as follows.

Microphone connection check: MIC CHECK Ambient noise measurement: AMBIENT NOISE Speaker connected/not connected check:

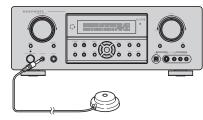
SPEAKER CHECK Speaker output level check: SPEAKER LEVEL Distance from speaker (delay time) check:

SPEAKER DISTANCE Speaker characteristics check: SPEAKER SIZE

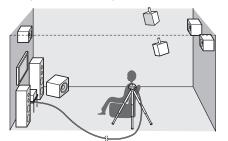
How to Operate

Settings are displayed on the monitor during setup, therefore turn the monitor on.

1. Connect the included microphone to the MRAC jack of the unit.



2. Set the microphone at ear height as in the actual listening position. Use a stand or tripod to position the microphone.



Notes:

- Remove any obstructions between the speakers and the microphone.
- Keep the room quiet during measurement.
- The test tone emitted during measurement is loud. Take considerations for neighboring homes and children.
- Step away from the listening position during measurement and operate the unit with the remote controller from outside the speaker path.

- About surround back speakers :
- When the surround back speaker is set to NONE in the SPEAKER SETUP, it is skipped in the AUTO setup. To use the surround back speaker, set it to YES by MANUAL setup before using the MRAC feature.
- The MRAC feature is available except in the following modes.
- 7.1 CH INPUT
- PURE-DIRECT
- SOURCE DIRECT
- Select "2. SPEAKER SETUP" on the SETUP MAIN MENU, then select AUTO for "2-1 SPEAKER SETUP". Move the cursor to "NEXT" with the ▲ or ▼ cursor buttons and then press the ENTER button.



 Select START on the AUTO SETUP display and press the ENTER button to start measurements.

AUTO SETUP	
START CANCEL	
SPEAKERS CHECK	: **
SPEAKERS LEVEL	: **
SPEAKERS DISTANCE SPEAKERS SIZE	: ** : **
MAIN RETURN NEXT	EXIT

- 5. For measurement items, see "Measurement".
- **6.** When measurements are completed, "FINISHED" appears on the monitor.
- **7.** Once finished, disconnect the microphone from the unit.
- 8. Measurement results can be seen by selecting "NEXT" and press the ENTER button or selecting "2. SPEAKER SETUP" on the SETUP MAIN MENU. Then select MANUAL for "2-1 SPEAKER SETUP".

Notes:

- If MRAC is started with both speaker settings A and B off, it will enter CANCEL mode without displaying an ERROR on the screen. When this happens, check the SPEAKER setting.
- The measured speaker distance may differ from the actual distance from speakers. Nevertheless, the measured value is suitable for the speakers.
- To make changes to individual speakers, select 2. SPEAKER SETUP on the SETUP MAIN MENU, then select MANUAL for 2-1 SPEAKER SETUP.
- The included microphone is designed specifically for this receiver. Other microphones do not guarantee suitable measurement results. Use the included microphone to conduct measurements.
- During measurement, press the **ENTER** or **EXIT** button to cancel measurement.
- In some rooms, an error may occur during auto speaker setup or it may not be possible to set Speaker distance correctly because of room acoustics. In such case, set the speaker distance by MANUAL setup.
- Please set any THX Certified speakers manually to "Small" and the crossover to "80 Hz" after Auto setup operation.
- When only HDMI components are connected, OSD will not be displayed.

Error Indications During Measurement

If trouble occurs during measurement, an error message is displayed on the monitor screen and FL display. Those errors and their remedies are described below. The message appearing on the FL display is given in ().

The microphone (MC-10) is not properly connected. \rightarrow Check the microphone connection.

AMBI NOISE ERROR (AMBI NOISE ER)

Measurement cannot be done correctly because of excessive ambient noise.

→ Either temporarily turn off power to noisy devices such as air conditioning or move them out of the room.

\rightarrow Retry measurement when the room is quiet.

SPEAKER SET ERROR (SPK SET ERROR)

The speakers are not properly connected.

→ Recheck speaker layout and connections.

3 PREFERENCE

3 PREFERENCE		
STANDBY MODE TV-AUTO	:	***
OSD INFO	:	ENABLE
VIDEO CONVERT HDMI DC TRIGGER	:	ENABLE

- Select "PREFERENCE" in the SETUP MAIN MENU with the ▲ or ▼ cursor buttons, and press the ENTER button.
- To select a desired content, press the ▲ or ▼ cursor buttons.

STANDBY MODE:

When this function is set to "**ECONOMY**", you can reduce the power consumption when the unit is in the standby mode.

Note:

TV-AUTO and RS-232C are disabled in the "ECONOMY" setting (SR5002 only).

TV AUTO:

Select the TV AUTO ON/OFF function to enable or disable with the \blacktriangleleft or \blacktriangleright cursor buttons.

OSD Info:

Select the OSD information function to enable or disable with the ◀ or ► cursor buttons. If you select "**ENABLE**", the unit will display the

status of the feature (Volume up/down, input select, etc..) on the TV monitor. But if you do not desire this information, select "**DISABLE**".

VIDEO CONVERT:

Select the VIDEO CONVERT function to enable or disable with the ◄ or ► cursor buttons. (Video cable connection: Refer to page 20)

T		:		D N
D	V D	:	0	D N
V	C R	:	0) N
D	SS	:	0) N
A	U X 1	:	0) N
MAIN	R E 1	ΓUF	R N	N EXI

After you complete this portion of the set up, move the cursor to "MAIN" with the \blacktriangle or \checkmark cursor buttons and press the ENTER button.

HDMI AUDIO:

This setting determines whether to playback audio input to the HDMI jacks through the unit or output it through the unit to a TV or projector.

- **ENABLE:** The audio input to the HDMI jacks can be played back by this unit. In such case, audio signals are not output to the TV or projector.
- THROUGH: The audio input to the HDMI jacks is not output from the speaker terminals of the unit. Audio data is output directly to the TV or projector. This setting is used to listen to audio on a multi channel TV. etc.

DC TRIGGER:

Select "DC TRIG SETUP" in the SETUP MAIN MENU with \blacktriangle or \blacktriangledown cursor button, and press the ENTER button.

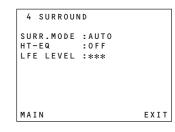
DC	Т	R	I	G			D	I	S	A	В	L	E						
тν			:		*	*	*				т	A	P	E		:	*:	**	k
DVI)		:		*	*	*				С	D	/	R		:	*:	**	k
VCF	R		:		*	*	*				A	U	Х	2		:	*:	**	k
DSS	S		:		*	*	*				Т	U	Ν	Е	R	:	*:	**	k
A U X	(1		:		*	*	*				7		1	С	Н	:	*:	**	k
DSS	S		:		*	*	*				Т	Ū	N	E	R	:	*:	**	k
	r N	1	D	-	т		D	N									- -	v	ιт

You can select MAIN ROOM, MULTI ROOM, REMOTE or DISABLE by pressing ◄ or ► cursor buttons.

Notes:

- REMOTE is available for the external control. The RC5001SR cannot operate this function.
- To select desired input source , press \blacktriangle or \blacktriangledown cursor button.
- To set ON or OFF, press ◀ or ► cursor button.
- After you complete this portion of the set up, move the cursor to "**MAIN**" with the ▲ or ▼ cursor buttons and press the **ENTER** button.

4 SURROUND



- Select "SURROUND" in the SETUP MAIN MENU with the ▲ or ▼ cursor buttons, and press the ENTER button.
- To select a desired content , press the ▲ or ▼ cursor buttons.

SURR.MODE:

Select the desired surround mode with the \blacktriangleleft or \blacktriangleright cursor buttons.

HT-EQ:

Select to active the HT-EQ with the \blacktriangleleft or \triangleright cursor buttons.

The tonal balance of a film soundtrack will be excessively bright and harsh when played back over audio equipment in the home. This is because film soundtracks were designed to be played back in large movie theater environments.

Activating the HT-EQ feature when watching a film made for movie theaters corrects this and restores the correct tonal balance.

The HT-EQ feature is available except in the following modes.

- 7.1 CH INPUT
- PURE-DIRECT
- SOURCE DIRECT

• When VIRTUAL is set for the surround mode LFE LEVEL:

Select the output level of the LFE signal included in the Dolby Digital signal or the DTS signal. Select 0 dB, -10 dB or OFF with the ◀ or ► cursor buttons.

After you complete this portion of the set up, move the cursor to "**MAIN**" with the \blacktriangle or \blacktriangledown cursor buttons and press the **ENTER** button.

5 PL II (PRO LOGIC II) ENGLISH MUSIC PARAMETER

Pro Logic II-Music mode creates a rich and enveloping surround ambience from stereo sources such as CDs.

In this mode, SR4002/SR5002 includes three controls to fine-tune the soundfield as follows.

5 PLIIX MUS	IC	PARAMETER
PARAMETER	:	DEFAULT
PANORAMAA	:	OFF
DIMENSION	:	0
CENTER WIDTH	:	3

Select "PL II MUSIC" in the SETUP MAIN MENU with the \blacktriangle or \checkmark cursor buttons, and press the ENTER button.

PARAMETER:

Select "DEFAULT" or "CUSTOM" with the ◀ or ► cursor buttons.

If you select "CUSTOM", you can adjust three parameters as listed below.

PANORAMA:

Select the Panorama mode On or Off with the ✓ or ► cursor buttons.

Panorama wraps the sound of the front left and right speakers around you, for an exciting perspective.

DIMENSION:

Set the Dimension level between +3 and -3 level in 1 level intervals with the ◀ or ► cursor buttons. Adjust the soundfield either towards the front or towards the rear.

This can be useful to help achieve a more suitable balance from all the speakers with certain recordinas.

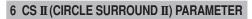
CENTER WIDTH:

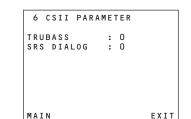
- Set the Center width level between 0 and 7 in 1 level intervals with the ◀ or ► cursor buttons. Center Width allows you to gradually spread the center channel sound into the front left and right speakers.
- At its widest setting, all the sound from the center is mixed into the left and right.

This control may help achieve a more spacious sound or a better blend for the front image.

If "NONE" was selected for the Center speaker setting, in the Speaker size set up menu, then this setting will not appear.

After you complete this portion of the set up, move cursor to "MAIN" with the ▲ or ▼ cursor buttons and press the ENTER button.





- 1. Select "CS II" in the SETUP MAIN MENU with the \blacktriangle or \bigtriangledown cursor buttons, and press the ENTER button.
- 2. To Select desired contents as below, press the \blacktriangle or \checkmark cursor buttons.

TRUBASS:

Set the TRUBASS level between 0 and 6 level in 1 level interval with the \triangleleft or \triangleright cursor buttons. TRUBASS produced by the speakers are an octave below the actual physical capabilities of the speakers adding exciting, deeper bass effects.

SRS DIALOG:

Set the SRS DIALOG level between 0 and 6 in 1 level intervals with the \triangleleft or \triangleright cursor buttons. This can be popped out of the surround audio effects, allowing the listener to easily discern what the actors sav.

If "NONE" was selected for the Center speaker setting, in the Speaker size set up menu, then this setting will not appear.

After you complete this portion of the set up, move cursor to "MAIN" with the ▲ or ▼ cursor buttons and press the ENTER button.

7 7.1 CH INPUT LEVEL

This sub-menu is to adjust the speaker levels for 7.1channel input sources.

Here you will adjust the volume for each channel so that they are all heard by the listener at the same level.

7 7.1 CH.	INPUT	LEVEL
VIDEO-IN	:	LAST
FRONT L	:	0 dB
CENTER	:	0 dB
FRONT R	:	0 dB
SURR.R	:	0 dB
SURR.B R	:	0 dB
SURR.B L	:	0 dB
SURR.L	:	0 dB
SUB W	:	0 dB
MAIN		EXIT

- **1** Select "7.1CH INPUT" in the SETUP MAIN MENU with the \blacktriangle or \blacktriangledown cursor buttons, and press the ENTER button.
- 2. To select "VIDEO IN", press ▲ or ▼ cursor button.
- **3.** Using the \triangleleft or \triangleright cursor buttons, select the video input source which is emitted from Monitor out in the 7.1 CH INPUT function.

The input source is switched by pressing the I or buttons as follows:

LAST \leftrightarrow TV \leftrightarrow DVD \leftrightarrow VCR \leftrightarrow DSS \leftrightarrow AUX1 \leftrightarrow V-OFF \leftrightarrow LAST \leftrightarrow

Notes:

- When select LAST, the source is set previous source before 7.1 CH INPUT function is activated.
- When select V-OFF, no signal is emitted from monitor out terminal.
- **4**. To Select desired channel, press the \blacktriangle or \blacktriangledown cursor buttons.
- **5.** Using the \triangleleft or \triangleright cursor buttons, adjust the volume level of each channel.
- **6.** After you complete this portion of the set up, move the cursor to "MAIN" with the \blacktriangle or \blacktriangledown cursor buttons and press the ENTER button.

Notes:

- These settings will be memorized to 7.1CH INPUT source.
- This feature can be directly selected with the **CH.SEL** button of the remote controller.

8 MULTI ROOM (SR5002 only)

SR5002 has features in MULTI ROOM SYSTEM such as source selector, sleep timer, Multi Room Speaker output and remote control. You can set these feature in this sub-menu.

8	Μ	UL	Τ.	I	R	00	Μ											
AUD	т	0								ь	v	Р						
SLE	-	-	т	IN	١E	R				-	-	-						
MUL	. т	I:	0	U٦				:		S	Т	E	R	Е	0			
MUL	. Т	Ι:	0	FΕ			М	S	Ρ	Κ			:	*	*	*		
VOL								:		۷	А	R	I					
LEV	Ε	L						:		-	9	0	d	В				
	- 1	ΜA	I	Ν	R	00	М		S	Т	A	Т	U	S		-	-	-
VID	Ε	0:	D	VC)		А	U	D	I	0	:	D	۷	D			
MAI	N														Е	Х	I	Т

- 1. Select "MULTI ROOM" in the SETUP MAIN MENU with ▲ or ▼ cursor button, and press the ENTER button.
- 2. To Select desired contents, press ▲ or ▼ cursor button

AUDIO:

Select the audio source of the Multi-room output with \blacktriangleleft or \blacktriangleright cursor buttons.

SLEEP TIMER:

SLEEP timer function is available during the multiroom is active, set the time with ◀ or ► cursor buttons.

MULTI OUT:

To switch MULTI and MSPK outputs to either STEREO or MONO, press ◀ or ► cursor button.

MULTI (MULTI ROOM):

To switch on the Multi-room output ON or OFF. press ◀ or ► cursor button.

VOL (VOLUME SETUP):

Select whether the Multi-room output level is variable or fixed with a ◀ or ► cursor buttons.

LEVEL (VOLUME LEVEL):

Adjust the Multi-room output level with ◀ or ► cursor buttons.

MSPK (MULTI SPEAKER):

To switch on the Multi-speaker output ON or OFF. press ◀ or ► cursor buttons.

Note:

This setting can be changed when the Surr Back is set "NONE" in 2-1 SPEAKER SIZE menu. When this setting is unavailable, "*** is displayed

MAIN ROOM STATUS:

Selected input source in the main room will be displayed.

Note:

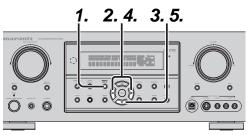
If "VOLUME" is set to "FIXED", the multi-room output level cannot be adjusted from the second zone.

After you complete this portion of the set up, move the cursor to "MAIN" with ▲ or ▼ cursor buttons and press ENTER button.



You can setup the speaker conditions quickly with SIMPLE SETUP menu. In this menu, the number of speakers and speaker delay time can be set. These settings can be changed more detail in "2. SPEAKER" setup menu.

Press the **SIMPLE SETUP** button on the unit to enter this menu.



_		4.0 ch	LARGE	NONE	SMA
	·(((· ·)))-	3.1 ch	LARGE	SMALL	NON
0		3.0 ch	LARGE	SMALL	NON
	0 0	2.1 ch	LARGE	NONE	NON
		2.0 ch	LARGE	NONE	NON

- 1. Press the SIMPLE SETUP button on the unit to enter the "SPEAKERS" menu.
- 2. Press ◀ or ► cursor button to select the speaker number.
- 3. Press the ▼ cursor button to enter the "ROOM" menu.
- **4.** Press **◄** or **▶** cursor button to select the room size.
- **5.** After finishing all setup, press the ▼ cursor button to exit the SIMPLE SETUP menu.

Note:

All Simple Setup menu is reset when the speaker setting is changed with Speaker Setup menu.

SIMPLE	SETUP
1.SPEAKERS	: ?
2.R00M	: ?
	EXIT

The relation of the speakers number and conectted speaker

CHANNEL	Front L/R (F)	Front Center (C)	Surround L/R (S)	Surround Back L/R (SB)	Sub woofer (SW)
7.1 ch	LARGE	SMALL	SMALL	2ch	YES
7.0 ch	LARGE	SMALL	SMALL	2ch	NONE
6.1 ch	LARGE	SMALL	SMALL	1ch	YES
6.0 ch	LARGE	SMALL	SMALL	1ch	NONE
5.1 ch	LARGE	SMALL	SMALL	NONE	YES
5.0 ch	LARGE	SMALL	SMALL	NONE	NONE
4.1 ch	LARGE	NONE	SMALL	NONE	YES
4.0 ch	LARGE	NONE	SMALL	NONE	NONE
3.1 ch	LARGE	SMALL	NONE	NONE	YES
3.0 ch	LARGE	SMALL	NONE	NONE	NONE
2.1 ch	LARGE	NONE	NONE	NONE	YES
2.0 ch	LARGE	NONE	NONE	NONE	NONE

The relation of the room size and floor space

The relation of the room size and noor space											
SIZE	Floor space	Width (W)	Depth (D)	Imaging Distance							
SMALL				Front (F)	6 ft. (1.8 m)						
				Center (C)	5 ft. (1.5 m)						
	10 m ²	2.7 m	3.6 m	Surround (S)	4 ft. (1.2 m)						
				Surr. Back (SB)	5 ft. (1.5 m)						
				Sub Woofer (SW)	5 ft. (1.5 m)						
	16 m ²			Front (F)	7 ft. (2.1 m)						
				Center (C)	6 ft. (1.8 m)						
MEDIUM		3.6 m	4.5 m	Surround (S)	5 ft. (1.5 m)						
				Surr. Back (SB)	7 ft. (2.1 m)						
				Sub Woofer (SW)	6 ft. (1.8 m)						
				Front (F)	9 ft. (2.7 m)						
				Center (C)	8 ft. (2.4 m)						
LARGE	24 m ²	24 m ² 4.5 m	5.4 m	Surround (S)	7 ft. (2.1 m)						
				Surr. Back (SB)	8 ft. (2.4 m)						
				Sub Woofer (SW)	8 ft. (2.4 m)						

The relation of the room size and floor space is a roughly standard.

ENGLISH

BASIC OPERATION (PLAYBACK)

SELECTING THE SURROUND MODE

Example: AUTO SURROUND

SELECTING AN INPUT SOURCE

Before you can listen to any input media, you must first select the input source on the unit.

Example : DVD



To select DVD, turn the INPUT SOURCE knob on the front panel or simply press the **DVD** button on the remote controller.

After you have selected DVD, simply turn on the DVD player and play the DVD.

- · As the input source is changed, the new input name will appear momentarily an OSD information on the video display. The input name will also appear in the display, on the front-panel.
- · As the input is changed, this unit will automatically switch to the digital input, surround mode, attenuation, and night mode status which were entered during the configuration process for that source.
- · When an audio source is selected, the last video input used remains routed to the VCR Output and **Monitor** Output. This permits simultaneous viewing and listening to different sources.
- When a Video source is selected, the video signal for that input will be routed to the Monitor Output jacks and will be viewable on a TV monitor connected to the unit.

If a component video input is connected to the DVD or DSS component inputs, it will be routed to the Component Video Output. Make certain that your TV is set to the proper input to view the signal.

(3) (2)ō)o o ōJō \bigcirc

To select the surround mode during playback, press the SURROUND MODE button on the front panel or the SURROUND MODE buttons on the remote controller.

NIGHT MODE

4 5 VIRTUAL T.MODE	
MCH ST STE NIGHT	
CHUCAT SPIKRAIS MUTE VOLUME	

Press the **NIGHT** button on the remote controller to turn on the NIGHT mode.

Selecting the Night Mode ON is effective in Dolby Digital only, and it compresses the dynamic range. This softens loud passages such as sudden explosions, to help prevent disturbing others late at night.

To turn off the Night mode, press the NIGHT button again.

ADJUSTING THE MAIN VOLUME



Adjust the volume to a comfortable level using the VOLUME control knob on the front panel or To temporarily silence all speaker outputs such as **VOLUME** ▲ / ▼ buttons on the remote controller. To increase the volume, turn the **VOLUME** knob clockwise or press **VOLUME** ▲ button on the remote controller, to decrease the volume, turn counterclockwise or press VOLUME ▼ button on the head-phone jack, but it will not affect any recording or remote controller.

Notes:

- The volume can be adjusted within the range of $-\infty$ to 18 dB, in steps of 1 dB.
- · However, when the channel level is set as described on page 26, if the volume for any channel is set at +1dB or greater, the volume cannot be adjusted up to 18 dB.

(In this case the maximum volume adjustment range is "18 dB - Maximum value of channel level)

ADJUSTING THE TONE (BASS & TREBLE) CONTROL



During a listening session you may wish to adjust the Bass and Treble Control to suit your listening tastes

(Using the remote controller)

To adjust the bass effect, press BASS ▲ or BASS ▼ on the remote controller.

To adjust the treble effect, press TREBLE ▲ or **TREBLE** ▼ on the remote controller.

Note:

The tone control function can work in the AUTO Surround, Stereo, Dolby PLIIx, DTS, DTS-ES, and Multi Ch. Stereo mode.

TEMPORARILY TURNING OFF THE SOUND





when interrupted by a phone call, press the MUTE button on the front panel or MUTE button on the remote controller.

This will interrupt the output to all speakers and the dubbing that may be in progress.

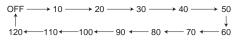
When the system is muted, the display will show "MUTE" .

Press the MUTE button again to return to normal operation.

USING THE SLEEP TIMER



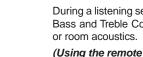
To program this unit for automatic standby, press the SLEEP button on the remote controller. Each press of the button will increase the time before shut down in the following sequence.

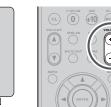


The sleep time will be shown for a few seconds in the display on the front panel, and it will count down until the time has elapsed.

When the programmed sleep time has elapsed, the unit will automatically turn off.

Note that the SLEEP indicator on the display will illuminate when the Sleep function is programmed. To cancel the Sleep function, press the SLEEP button until the display shows "SLEEP OFF" and the SLEEP indicator will disappear.





VIDEO CONVERT

When this function is activated, the video or S-video signal can be emitted from the video, S-video or component video output terminal.

To activate this function, select VIDEO CONVERT in PREFERENCE menu and set ENABLE.

Notes:

• The component video signal is emitted only from component video output terminal.

When the video equipment is connected by component terminal, connect the monitor and SR4002/SR5002 by the component terminal.

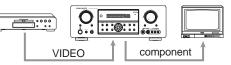
- This function is unavailable for the REC out terminal.
- This function is unavailable for the still picture, fast forward and reverse playing of the video component.
- If, while attempting to use the video convert feature, the SR4002/SR5002 cannot synchronize with the display device, "NO SIGNAL" appears on the monitor, or noise is generated, this feature cannot be used. All of these signs are caused by equipment incompatibility; there is nothing wrong with the SR4002/SR5002.

In such case, set VIDEO CONVERT in the PREFERENCE menu to DISABLE. Also, connect the video input signal to the display device via the MONITOR OUT terminal under VIDEO and the S-video input signal to the display device via the MONITOR OUT terminal under S-VIDEO.

Example:

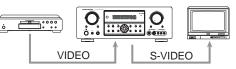
Monitor is connected with the component.

SR5002 only



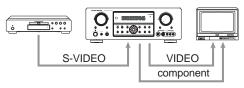
Monitor is connected with the video or S-video.

SR5002 only

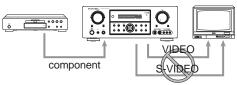


Monitor is connected with the video or component.

SR4002/SR5002



SR4002/SR5002



The signal cannot be converted from the component to the video or S-video.

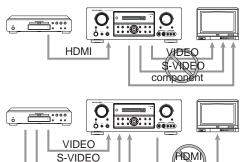
Notes of OSD menu:

- The setup menu can be displayed through all video out (COMPONENT, S-VIDEO, VIDEO).
- The setting informations (e.g. volume setting) are displayed through all video out when the VIDEO CONVERT function are set ON.

Note:

- No setting information is displayed when the signal is emitted from the COMPONENT IN to COMPONENT OUT.
- The setting informations (e.g. volume setting) are displayed through the S-VIDEO or VIDEO out when the VIDEO CONVERT function are set DISABLE. When the S-VIDEO and VIDEO outputs are used simultaneously, the setting informations are displayed through the S-VIDEO out only.

HDMI



Notes of OSD menu:

component

HDMI: OSD menu is not displayed. VIDEO/S-VIDEO/component: VIDEO CONVERT of HDMI is not possible, thus the OSD menu is not displayed.

SURROUND MODE

This unit is equipped with many surround modes. These are provided to reproduce a variety of surround sound effects, according to the content of the source to be played. The available surround modes may be restricted depending on the input signal and speaker setup.

The relation between the selected surround mode and the input signal

The surround mode is selected with the surround mode selector on this unit or the remote controller. However, the sound you hear is subject to the relationship between the selected surround mode and input signal. That relationship is as follows;

Surround				Outp		hanne		Front informa	tion display	Surround				Out		Chanr	-		Front informat	tion display
Mode	Input Signal	Decoding	L/R	С	SL SR	SBL SBF	SubW	Signal format indicators	Channel status	Mode	Input Signal	Decoding	L/R	С	SI SF	L SE	βL SR Sι	ubW	Signal format indicators	Channel status
AUTO	Dolby Surr. EX	Dolby Digital EX	0		0			DIGITAL EX	L, C, R, SL, SR, S, LFE	CS II Cinema	PCM (Audio)	CSII	0	0	0				PCM	L, R
	Dolby D (5.1ch)	Dolby Digital 5.1	0	0	0	-	0	DIGITAL	L, C, R, SL, SR, LFE	CS II Music CS II Mono	Analog	CSI	0	0	0) (0	ANALOG	-
	Dolby D(2ch)	Dolby Digital 2.0	0	-	-	-	-	DIGITAL	L, R	CS II MONO	Dolby D (2ch)	CSI	0	0	0) (0	DIGITAL	L, R
	Dolby D (2ch Surr)	Pro Logic IIx movie	0	0	0	0	0	DIGITAL, DICI SURROUND	L, R, S		Dolby D (2ch Surr)	CSI	0	0	0) (0	DICI DIGITAL, DICI SURROUND	L, R, S
	DTS-ES	DTS-ES	0	0	0	0		dts, ES	L, C, R, SL, SR, S, LFE	STEREO	Dolby Surr. EX	Stereo	0	-	-	-	11	0	DIGITAL EX	L, C, R, SL, SR, S, LFE
	DTS 96/24	DTS 96/24	0	0	0	-	0	dts 96/24	L, C, R, SL, SR, LFE		Dolby D (5.1ch)	Stereo	0	-	-	-	1	0	DIGITAL	L, C, R, SL, SR, LFE
	DTS (5.1ch)	DTS 5.1	0	0	0	-	0	dts	L, C, R, SL, SR, LFE		Dolby D (2ch)	Stereo	0	-	-	-	(0*	DIGITAL	L, R
	Multi Ch-PCM	Multi Ch-PCM	0	0	0			PCM	L, C, R, SL, SR, LFE		Dolby D (2ch Surr)	Stereo	0	-	-	-	1	0*	DICIDIGITAL, DICI SURROUND	L, R, S
	Multi Ch-PCM 96kHz	Multi Ch-PCM 96kHz	0	0	0	-		PCM	L, C, R, SL, SR, LFE		DTS-ES	Stereo	0	-	-	-	1	0	dts, ES	L, C, R, SL, SR, S, LFE
	PCM(Audio)	PCM (Stereo)	0	-	-	-	0	PCM	L, R		DTS 96/24	Stereo	0	-	-	-	1	0	dts 96/24	L, C, R, SL, SR, LFE
	PCM 96kHz	PCM (96kHz Stereo)	0	-	-	-	0	PCM	L, R		DTS (5.1ch)	Stereo	0	-	-	-	1	0	dts	L, C, R, SL, SR, LFE
	HDCD	PCM (Stereo)	0	-	-	-	0	PCM HDCD	L, R		Multi Ch-PCM	Stereo	0	-	-	-	1	0	PCM	L, C, R, SL, SR, LFE
	Analog	Stereo	0	-	-	-	0	ANALOG	-		PCM (Audio)	Stereo	0	-	-	-	. (0	PCM	L, R
SOURCE DIRECT	Dolby Surr. EX	Dolby Digital EX	0	0	0	0	0	DIGITAL EX	L, C, R, SL, SR, S, LFE		PCM 96kHz	Stereo	0	-	-	-	. [(0	PCM	L, R
PURE DIRECT	Dolby D (5.1ch)	Dolby Digital 5.1	0	0	0	-	0	DIGITAL	L, C, R, SL, SR, LFE		HDCD	PCM (Stereo)	0	-	-	-	. [(0	PCM HDCD	L, R
	Dolby D (2ch)	Dolby Digital 2.0	0	-	-	-	-	DIGITAL	L, R		Analog	Stereo	0	-	-	-	. 1	0	ANALOG	-
	Dolby D (2ch Surr)	Pro Logic IIx movie	0	0	0	-	-	DIGITAL, DICI SURROUND	L, R, S	Virtual	Dolby Surr. EX	Virtual	0	-	-	-		-	DIGITAL EX	L, C, R, SL, SR, S, LFE
	DTS-ES	DTS-ES	0	0	0	0	0	dts, ES	L, C, R, SL, SR, S, LFE		Dolby D (5.1ch)	Virtual	0	-	-	-		-	DIGITAL	L, C, R, SL, SR, LFE
	DTS 96/24	DTS 96/24	0	0	0	-	0	dts 96/24	L, C, R, SL, SR, LFE		Dolby D (2ch)	Virtual	0	-	-	-		-	DIGITAL	L, R
	DTS (5.1ch)	DTS 5.1	0	0	0	-	0	dts	L, C, R, SL, SR, LFE		Dolby D (2ch Surr)	Virtual	0	-	-	-		-	DIGITAL, DICI SURROUND	L, R, S
	Multi Ch-PCM	Multi Ch-PCM	0	0	0	-	0	PCM	L, C, R, SL, SR, LFE		DTS-ES	Virtual	0	-	-	-		-	dts, ES	L, C, R, SL, SR, S, LFE
	Multi Ch-PCM 96kHz	Multi Ch-PCM 96kHz	0	0	0	-	0	PCM	L, C, R, SL, SR, LFE		DTS (5.1ch)	Virtual	0	-	-	-		-	dts	L, C, R, SL, SR, LFE
	PCM (Audio)	PCM (Stereo)	0	-	-	-	-	PCM	L, R		Multi Ch-PCM	Virtual	0	-	-	-		-	PCM	L, C, R, SL, SR, LFE
	PCM 96kHz	PCM (96kHz Stereo)	0	-	-	-	-	PCM	L, R		PCM (Audio)	Virtual	0	-	-	-	. –	-	PCM	L, R
	HDCD	PCM (Stereo)	0	-	-	-	-	PCM HDCD	L, R		Analog	Virtual	0	-	-	-		-	ANALOG	-
	Analog	Stereo	0	-	-	-	-	ANALOG	-	Multi Ch.	Dolby Surr. EX	Dolby Digital EX	0	0	0		1	0	DIGITAL EX	L, C, R, SL, SR, S, LFE
EX/ES	Dolby Surr. EX	Dolby Digital EX	0	0	0	0	0	DIGITAL EX	L, C, R, SL, SR, S, LFE	Stereo	Dolby D (5.1ch)	Dolby Digital 5.1	0	0	0) -	. (0	DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (5.1ch)	Dolby Digital EX	0	0	0	0	0	DIGITAL	L, C, R, SL, SR, LFE		Dolby D (2ch)	Multi Channel Stereo	0	0	0		5 (0*	DIGITAL	L, R
	DTS-ES	DTS-ES	0	0	0	0	0	dts, ES	L, C, R, SL, SR, S, LFE		Dolby D (2ch Surr)	Multi Channel Stereo	0	0	0		5 (0*	DIGITAL, DICI SURROUND	
	DTS 96/24	DTS-ES	0	0	0	0	0	dts 96/24	L, C, R, SL, SR, LFE		DTS-ES	DTS-ES	0	0	0		1	0	dts, ES	L, C, R, SL, SR, S, LFE
	DTS(5.1ch)	DTS-ES	0	0	0	0	0		L, C, R, SL, SR, LFE		DTS 96/24	DTS 96/24	0	0	0) (1	0	dts 96/24	L, C, R, SL, SR, LFE
	Multi CH-PCM	Multi Ch-PCM + Dolby EX	0	0	0	0	0	PCM	L, C, R, SL, SR, LFE		DTS (5.1ch)	DTS 5.1	0	0	0) -	. 1	0	dts	L, C, R, SL, SR, LFE
	AAC (5.1ch)	AAC EX	0	0	0	-	0	AAC	L, C, R, SL, SR, LFE		Multi Ch-PCM	Multi Ch-PCM	0	0	0) -	. 1	0	PCM	L, C, R, SL, SR, LFE
DOLBY	Dolby Surr. EX	Dolby Digital 5.1	0	0	0	*	0	DIGITAL EX	L, C, R, SL, SR, S, LFE		Multi Ch-PCM 96kHz	Multi Ch-PCM 96kHz	0	0	0) -	. 1	0	PCM	L, C, R, SL, SR, LFE
(PL IIx movie)	Dolby D (5.1ch)	Dolby Digital 5.1	0	0	0	*	0	DIGITAL	L, C, R, SL, SR, LFE		PCM (Audio)	Multi Channel Stereo	0	0	0) (5 (0*	PCM	L, R
(PL IIx music) (PL IIx game)	Dolby D (2ch)	Pro Logic IIx	0	0	0	0	0	DIGITAL	L, R		Analog	Multi Channel Stereo	0	0	0) (5 (0*	ANALOG	-
(Pro Logic)	Dolby D (2ch Surr)	Pro Logic IIx	0	0	0	0	0	DIGITAL, DICI SURROUND	L, R, S											
· · · /	Multi Ch-PCM	Multi Ch-PCM + PLIIx	0	0	0	0	0	PCM	L, C, R, SL, SR, LFE											
	PCM (Audio)	Pro Logic IIx	0	0	0	0	0	PCM	L, R											
	Analog	Pro Logic IIx	0	0	0	0	0	ANALOG	-	* : Depend	ding on the parti	cular setup, there	e m	ay t	e d	liffer	enc	ces	compared to the infor	mation contained ir
DTS	DTS-ES	DTS 5.1	0	0	0	-	0	dts, ES	L, C, R, SL, SR, S, LFE	these t	ables.	•		-					-	
(Neo:6 Cinema)	DTS 96/24	DTS 96/24	0		0			dts 96/24	L, C, R, SL, SR, LFE		_/R (FRONT Spe	akor) - SMALL								
(Neo:6 Music)	DTS (5.1ch)	DTS 5.1	0		0			dts	L, C, R, SL, SR, LFE	O . WHEIL	IN (FROM SPE	aner = SiviALL.								
	PCM (Audio)	Neo:6	0		0			PCM	L, R	Notes:							٨h	hra	eviations	
	Analog	Neo:6	0		0			ANALOG	-								AD	bie		
	Dolby D (2ch)	Neo:6	0						L, R	 Dolby 	Digital (2 ch: L	t/Rt): signal with	Do	olby					L/R : Front speak	
	Dolby D (2ch Surr)	Neo:6	Ō	-	Ō			DIGITAL, DIGITAL	L, R, S		nd flag Speakers a			5					C : Center spea	aker
	· · · · · · · · · · · · · · · · · · ·	1			1		1	,	1		U 1									

- No sound outputs from the surround speaker, center speaker and subwoofer if the DVD disc has no surround data.
- SL/SR : Surround speakers
- SBL/SBR : Surround Back speakers
 - SubW : Sub woofer speaker

AUTO

When this mode is selected, the unit determines whether the digital input signal is Dolby Digital, Dolby Digital Surround EX. DTS. DTS-ES. DTS 96/24 or PCM-audio.

Surround EX & DTS-ES will operate for multichannel source that has a Dolby Digital Surround EX or DTS-ES auto trigger flag in the digital signal.

When a Dolby Digital or DTS signal is input, the number of channels for which the corresponding signal is encoded will be played.

Inputting a Dolby Digital two channel signal with Dolby surround status automatically subjects that signal to Pro Logic IIx movie processing before play. PCM 96 kHz source material can be played in this mode.

Notes:

- When you use this mode with certain DVD and CD players, performing operations such as "Skip" or "Stop" may momentarily interrupt the output.
- When the signal is not decoded, the mode is changed to AUTO mode automatically. Refer to page 35 to confirm the available decoding mode.

SOURCE DIRECT

In the Source Direct mode, the tone control circuit and bass management configuration are bypassed for full-range frequency response and the purist audio reproduction.

Notes:

- Speaker size is set to Front L/R = LARGE. Center = LARGE, Surround L/R = LARGE and Subwoofer = YES automatically. Tone controls, equalizer and additional processing are deactivated.
- · When you use this mode with certain DVD and CD players, performing operations such as skip or stop may momentarily interrupt the output.

PURE DIRECT

The Pure Direct mode further reduces sources of noise in addition to effect of the Source Direct mode. by blocking output from the video jacks (VIDEO, S-VIDEO, COMPONENT VIDEO and HDMI) and turning the FL display off.

EX/ES

This mode provides 6.1 channel surround for DOLBY DIGITAL EX. DTS-ES encoded source material such as DVD.

This mode cannot be used when an analog input has been selected.

Dolby Digital EX

In a movie theater, film soundtracks that have been encoded with Dolby Digital surround EX technology are able to reproduce an extra channel which has been added during the mixing of the program.

This channel, called Surround Back, places sounds behind the listener in addition to the currently available front left, front center, front right, surround right, surround left and subwoofer channels.

This additional channel provides the opportunity for more detailed imaging behind the listener and brings more depth, spacious ambience and sound localization than ever before.

Dolby Digital EX is not available in the system without surround back speaker(s).

DTS-ES (Discrete 6.1, Matrix 6.1)

DTS-ES adds the surround back channel audio to the DTS 5.1-channel format to improve the acoustic positioning and makes acoustic image movement more natural with the 6.1-channel reproduction. This unit incorporates a DTS-ES decoder, which can handle DTS-ES Discrete-encoded and DTS-ES Matrix-encoded program sources from DVD, etc., DTS-ES Discrete 6.1 features digital discrete recording of all channels including the surround back channel(s) and higher quality of audio reproduction. DTS-ES is not available in the system without a surround back speaker.

(Dolby Digital, Pro Logic IIx MOVIE, Pro Logic IIx MUSIC, Pro Logic IIx GAME, Pro Logic)

This mode is used with source materials encoded in Dolby Digital and Dolby Surround.

DOLBY DIGITAL

This mode is enabled when playing source materials encoded in Dolby Digital.

Playing multichannel encoded 6.1 or 7.1-channel Dolby Digital sources provides five main audio channels (left, center, right, surround left and surround right) and Low Frequency Effect channel. Dolby Digital EX decoding is not available in this mode.

Dolby Pro Logic IIx brings the excitement of surround sound to any stereo mix, while making existing Dolby Surround mixes sound more like discrete 5.1 channels Surround sound.

Dolby Pro Logic IIx has 3 modes. Please see below. Pro Logic IIx MOVIE

This mode provides 6.1 or 7.1 channel surround sound from Dolby Surround encoded stereo movie sound tracks.

Pro Logic IIx MUSIC

This mode provides 6.1 or 7.1 channel surround sound from conventional stereo sources, analog or digital, such as CD, Tape, FM, TV, Stereo VCR, etc. Pro Logic IIx GAME

Game mode restores the impact low-frequency surround effects by routing them to the system's subwoofer.

Pro Logic

This mode emulated original Dolby Pro Logic decoding (3/1 surround) suit for Dolby Surround encoded stereo movie soundtracks.

Notes:

- Pro Logic IIx mode will decode as Pro Logic II mode when the SURROUND BACK SPEAKER is set NONE in SPEAKER SETUP menu. (See SPEAKER SETUP, page 27)
- Pro Logic IIx mode is available for a 2ch input signal which is encoded in Dolby Digital or PCM format.
- PCM-audio signals can be subjected to Pro Logic processing when the sampling frequency is 32 kHz, 44.1 kHz or 48 kHz.

dts MODE

(dts, Neo:6 Cinema, Neo:6 Music)

This mode is for DTS encoded source materials such as LASER DISC, CD, and DVD. Neo:6 is for some 2 channel sources.

dts : This mode is enabled when playing source materials encoded in dts multichannel.

Playing multichannel encoded 5.1-channel dts sources provides five main audio channels (left, center, right, surround left and surround right) and Low Frequency Effect channel.

dts-ES decoding is not available in this mode.

The DTS mode cannot be used when an analog input has been selected.

Neo:6 Cinema, Neo:6 Music

This mode decodes 2-channel signals into 6channel signals using high-accuracy digital matrix technology.

The DTS NEO:6 decoder has near-discrete properties in the frequency characteristics of the channels as well as in channel separation.

According to the signals to be played back, DTS NEO:6 uses either the NEO:6 CINEMA mode optimized for movie playback or the NEO:6 MUSIC mode optimized for music playback.

Notes:

- Neo:6 mode is available to 2ch input signals which are encoded in Dolby Digital or PCM Analog format.
- PCM-audio signals can be subjected to Neo:6 processing when the sampling frequency is 32 kHz, 44.1 kHz or 48 kHz.

CIRCLE SURROUND II (CSII-CINEMA, CSII-MUSIC, CSII-MONO)

Circle Surround is designed to enable multichannel surround sound playback of non-encoded and multichannel encoded material.

Backward compatibility provides listeners with up to 6.1 channels of surround performance from entire collection of music and film, including broadcast, videotape and stereo recorded music.

Depending on source material, you can select CSII-Cinema mode, CSII-Music mode or CSII-Mono mode.

CSII Cinema mode

This mode is suited for playing back Circle Surroundencoded and non-encoded film and television soundtracks. Cinema Mode enables 6.1-channel surround playback of 2-channel sources such as Video Cassettes, TV broadcasts, streaming media and DVDs.

CSII Music mode

This mode is suited for playing back Circle Surroundencoded and non-encoded music. Music Mode decodes, music DVDs, radio and TV music broadcasts and CDs into enveloping 6.1-channel surround.

CSII-Mono mode

This mode plays back monaural recordings from any source, including CDs, DVDs and TV and radio broadcasts in compelling 6.1-channel surround.

Notes:

- CS II mode is available for 2ch input signals which are encoded in Dolby Digital or PCM format.
- PCM-audio signals can be subjected to CS II processing when the sampling frequency is 32 kHz, 44.1 kHz or 48 kHz.

STEREO

This mode bypasses all surround processing.

In stereo program sources, the left and right channels play normally when PCM-audio or analog stereo is input.

With Dolby Digital and DTS sources, the 5.1 multichannels are converted to two channel stereo. 96 kHz PCM source material can be played back in stereo mode.

VIRTUAL

This mode creates a virtualized surround sound experience from a two-speaker (front L and R) playback system playing any multichannel audio source (such as found on DVDs and digital broadcasts), including Dolby Digital, Dolby Pro Logic or DTS.

MULTI CH. ST

This mode is used to create a wider, deeper and more natural soundstage from two channel source material. This is done by feeding the left channel signal to both left front and left surround speaker and the right channel signal to both right front and right surround speaker. Additionally, the center channel reproduces a mix of the right and left channel.

CAUTION

NOTE for DTS signal

- * Connected DVD player, laserdisc player or CD player needs to support DTS digital output. You may not be able to play some DTS source signals from certain CD players and LD players even if you connect the player to this unit digitally. This is because the digital signal has been processed (such as the output level, sampling frequency or frequency response), and this unit cannot recognize the signal as DTS data.
- * You can not listen to DTS-encoded software in a multiroom.
- * Depending on the player used, DTS play may produce a short noise. This is not a malfunction.
- * While signals from a DTS laserdisc or CD are playing in another surround mode, you cannot switch to digital input or from digital input to analog input from the INPUT SETUP in the MAIN MENU or by pressing the A/D button.
- * The outputs for VCR 1 OUT, DSS/VCR 2 OUT, TAPE OUT, and CD-R OUT output analog audio signals only. Do not record from CDs or LDs that support DTS using these outputs. If you do, the DTS-encoded signal will be recorded as noise.

NOTE for Dolby Digital Surround EX signal

- * When playing Dolby Digital Surround EX-encoded software in 6.1 channels, it is required to set the EX/ES mode.
- * Note that some of Dolby Digital Surround EX-encoded software does not contain the identification signal. In this case, set the EX/ES mode manually.

NOTE for 96 kHz/192 kHz PCM audio

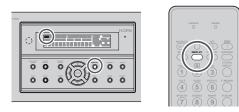
- * The AUTO, Pure Direct, and Stereo modes can be used when playing PCM signals with a sampling frequency of 96/192 kHz (such as from DVD-Video/Audio discs).
- * Certain DVD player models inhibit digital output. For details, refer to the player's operation manual.
- * Some DVD discs feature copy protection. When using such disc, 96 kHz PCM signal is not output from the DVD player. For details, refer to the player's operation manual.

NOTE for HDCD signal

- * HDCD is effective only through digital input.
- * You may not be able to play some HDCD source signals from certain CD players if you connect the player to this unit digitally. This is because the digital signal has been processed (such as the output level, sampling frequency or frequency response) and this unit cannot recognize the signal as HDCD data.

OTHER FUNCTION

DISPLAY MODE



You can select the display mode for the front display of the unit.

To select this mode, press the $\ensuremath{\text{DISPLAY}}$ on the remote controller.

When this button is pressed, the display mode is switched in the following sequence.

→ Surround Mode → Auto-display Off → Display Off → Input Function → Surround Mode....

In Auto display off mode, the display is off. But, if you make a change to the unit such as input or surround mode, the display will show that change, then go back to off after about 3 seconds. When changing the volume, it is not displayed.

In Display off mode, the display is off completely.

Note:

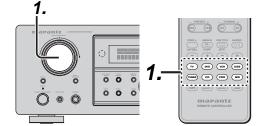
Only the DISP indicator will be illuminated on the front display in display off condition

RECORDING AN ANALOG SOURCE

In normal operation, the audio or video source selected for listening through this unit is sent to the record outputs.

This means that any program you are watching or listening to may be recorded simply by placing machines connected to the outputs for **TAPE OUT**, **CD/CDR OUT**, **VCR OUT** in the record mode.

To record the input source signal you are currently watching or listening to



 Select the input source to record by turning the INPUT SOURCE knob on the front panel or simply press the input selector buttons on the remote controller.

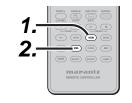
The input source is now selected and you may watch or listen to it as desired.

- The currently selected input source signal is output to the TAPE OUT, CD/CDR OUT, VCR OUT outputs for recording.
- **3.** Start recording to the recording component as desired.

Recording the video from one source and the audio from another

You can add the sound from one source to the video of another source to make your own video recordings.

Below is an example of recording the sound from a compact disc player connected to CD IN and the video from a video camera connected to DSS to video cassette recorder connected to the VCR OUT jack.



- **1.** Switch the video output source to VCR by simply pressing the **input selector** buttons on the remote controller.
- **2.** Switch the audio input source to CD by simply pressing the **input selector** buttons on the remote controller.
- **3.** Now "CD" has been selected as the audio input source and "VCR" as the video input source.

Notes:

- If you change the input source during recording, you will record the signals from the newly selected input source.
- You cannot record the surround effects.
- Digital input signals are only output to the digital outputs. There is no conversion from digital to analog.

When connecting CD players and other digital components, do not connect only the digital terminals, but the analog ones as well.

SELECTING ANALOG AUDIO INPUT OR DIGITAL AUDIO INPUT





If you have already assigned the digital inputs, you can temporarily select the audio input mode for each input source as following procedures.

Press the **AMP** button and press the **A/D (0)** button. When this button is pressed, the input mode is switched in the following sequence.

 \rightarrow HDMI Auto \rightarrow HDMI \rightarrow Digital \rightarrow Analog \rightarrow HDMI Auto....

In HDMI Auto mode, the types of signals being input to the digital and analog input jacks for the selected input source are detected automatically.

If no digital signal is being input, the analog input jacks are selected automatically.

In Digital and HDMI mode, input is fixed to an assigned digital input terminal.

In analog mode, the analog input jacks are selected. This selecting is temporary, so the result will not be stored in memory.

If you need to change the input mode completely, use INPUT SETUP in OSD menu system. (see page 27)

LISTENING THROUGH HEADPHONES

This jack may be used to listen to the unit's output through a pair of headphones. Be certain that the headphones have a standard 1/4" stereo phono plug.

Note that the speakers will automatically be turned off when the headphone jack is in use.

Notes:

- When using headphones, the surround mode will change to BYPASS and Dolby Headphone by MENU and Cursor button.
- The surround mode returns to the previous setting as soon as the headphone plug is removed from the jack.
- The tone control function can not work through the headphones output.

DOLBY HEADPHONE MODE

This feature simulates the waveforms of the actual sounds heard from the speakers.

When headphones are used, the **MENU** button automatically switches to the Dolby headphone mode.

The OSD that appears when the **MENU** button is pressed is shown below.

	ΗE	A D	ΡH	0 N	E			
	Y H		MOD			0 N 0 F F		
1	 /EL /EL				:		d B d B	

DOLDBY HP (Headphone) MODE can be selected with the left and right cursor buttons. BYPASS \rightarrow ON \rightarrow BYPASS

BYPASS: Bypasses the Dolby headphone mode and delivers ordinary 2-channel stereo.

ON: Dolby headphone mode active.

When the PURE DIRECT and SOURCE DIRECT mode is selected, Dolby surround processing is bypassed and "*******" is displayed as the mode indication.

The surround mode can be selected when mode is ON.

L/R LEVEL can be set in the ±10 dB range.

Notes:

- The surround mode returns to the previous setting as soon as the plug is removed from the jack.
- The Dolby Headphone function will not work when 32 or 96 kHz PCM digital signals are input.

ATTENUATION TO ANALOG INPUT SIGNAL



If the selected analog audio input signal is greater than the capable level of internal processing, the "**PEAK**" indicator will light up on the front display. If this happens, you should press the **ATT** button on the remote controller.

"ATT" indicator will be illuminated when this function is activated. The signal-input level is reduced by about half. Attenuation will not work with the output signal of TAPE-OUT, CD/CDR-OUT and VCR-OUT. This function is memorized for each individual input source.

SPEAKER A/B

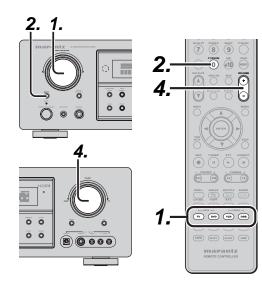


This unit has speaker system - A and speaker system- B for front L/R channels. You can select these systems by pressing **SPEAKERS A/B** button on the front panel or **SPK-AB** on the remote controller.

7.1 CH INPUT

This unit is equipped for future expansion through the use of Multi channel Super Audio CD multichannel player or DVD-Audio player.

When this is selected, the input signals connected to the L(front left), R (front right), CENTER, SL (surround left), SR (surround right) and SBL (surround back left) and SBR (surround back right) channels of the 7.1 CH. In jacks are output directly to the front (left and right), center, surround (left and right) and surround back speaker systems as well as the pre-out jacks without passing through the surround circuitry. In addition, the signal input to the SW (subwoofer) jack is output to the PRE OUT SW (subwoofer) jack. When 7.1 CH. INPUT is selected, the last video input used remains routed to the **Monitor Outputs**. This permits simultaneous viewing with video sources.



AUX2 INPUT

If you don't need to connect 7.1 Ch. input terminals with multi channel decoder,

L(front left) and R (front right) inputs terminals are available as AUX2 input.

In this case, You can connect additional audio source to AUX2 as other audio input terminals.



HT-EQ (HOME THEATER EQUALIZER)

At cinemas, the front left, front right and center speakers are located behind the screen. So, screen damping is taken into account when mastering movie software, with an emphasis on high frequencies. When playing back such software at home, the signal takes on different characteristics from those at the cinema. This unit includes HT-EQ to rectify the sound difference between that experienced at a cinema and in a home theater, allowing you to enjoy the same sound you would experience at the cinema at home. The HT-EQ feature is available except in the following modes.

- 7.1 CH INPUT
- PURE-DIRECT
- SOURCE DIRECT
- When VIRTUAL is set for the surround mode
- 1. Press the HT-EQ button on the unit.
- "EQ" indicator on the front panel will illuminate, indicating the HOME THEATER EQUALIZER has been activated.
- **2.** To cancel this function, press the HT-EQ button again.

"EQ" indicator on the front panel will be turned off, indicating the HOME THEATER EQUALIZER has been deactivated.

TV AUTO ON/OFF FUNCTION

This function allows the component connected to the TV-VIDEO in jack to control the power (ON/OFF) to the unit.

AUTO POWER ON

- Be sure the TV auto mode is ENABLED. (Refer page 28 : System Setup)
- Connect your TV TUNER (etc) to the TV-VIDEO in terminal. Be sure to connect the VIDEO input.
- **3.** Turn OFF the power to the TV TUNER and the unit.
- **4.** Turn ON the TV TUNER and tune in a receivable station.
- **5.** When the station is received, this unit turns ON and TV is selected automatically.

AUTO POWER OFF

- **1.** In the above situation, turn the TV TUNER OFF or select a channel that does not contain any broadcast.
- 2. The power to the unit switches to STANDBY after approx. 5 minutes.

Notes:

• AUTO POWER OFF is canceled if this unit is set to a source other than TV.

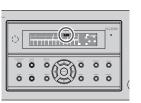
The function reactivates when TV is selected again.

- Some TV broadcasts may cause the TV AUTO FUNCTION to turn ON.
- The S-Video terminal does not support "TV AUTO ON/OFF" function.

VIDEO ON/OFF

When no video signal is connected to the unit or a DVD, etc., is connected directly to your TV, the unnecessary video circuit can be turned off by selecting the "**VIDEO OFF**" setting.

To select video off, press the **AMP** button and press the **V-OFF** button.







LIP.SYNC (SR5002 only)

Depending on the image device (TV, monitor, projector, etc.) connected to the SR5002, a time lag can occur between image signal processing and audio signal processing. Though minor, this time lag can interfere with movie and music enjoyment. The LIP.SYNC feature delays the audio signal with respect to the image signal output from the SR5002 to correct the time lag between the sound and image. It can be operated with the "LIP.SYNC" and ◀ and

► cursor buttons of the remote controller. Set the remote controller to the AMP mode before operating the LIP.SYNC feature. The initial setting is OFF (0 ms). The time lag can be adjusted in 10 ms steps up to 200 ms.

Watch the picture on the image device (i.e., TV, monitor, projector, etc.) as you adjust the time lag.

Note:

The LIP.SYNC feature turns OFF (0 ms) in the SOURCE DIRECT mode. When the SOURCE DIRECT mode is deactivated, the set value of the LIP. SYNC feature is automatically restored.

routed video signal to the Monitor Outputs.
Press the 7.1 CH INPUT button on the front panel or press 7.1 CH IN on the remote controller to switch the 7.1 channel input.

Select a desired Video source to decide the

3. If it is necessary to adjust the output level of each channel, press the **CH.SEL** button on the remote controller.

Adjust the speaker output levels so that you can hear the same sound level from each speaker at the listening position. For the front left, front right, center, surround left, surround right and surround back speakers, the output levels can be adjusted between -10 to +10 dB.

The subwoofer can be adjusted between -15 and +10 dB.

These adjustments result will be stored to 7.1 CH. INPUT memory.

4. Adjust the main volume with the **MAIN VOLUME** knob or the **VOLUME** buttons on the remote controller.

To cancel the 7.1 CH. INPUT setting, press the 7.1 CH INPUT button on the front panel or press 7.1 CH IN on the remote controller.

Notes:

1.

- 7.1 CH. Input mode bypasses the internal surround processing, so SURROUND mode cannot be selected.
- In addition, there is no signal at the record outputs when the 7.1 CH. Input is in use.

ENGLISH

BASIC OPERATION (TUNER)

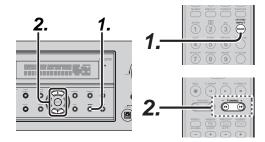
LISTENING TO THE TUNER

Frequency scan step for AM is selectable. Default setup is 10 kHz step, if your country's standard is 9 kHz step, press **BAND** button on the remote controller more than 6 seconds. Scan step will change.

Note:

Preset memory for the tuner will clear by changing this setup.

AUTO TUNING



(Using the unit)

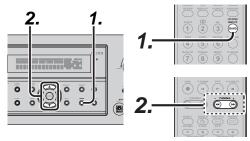
- **1**. To select tuner and desired band (FM or AM), press the BAND button on the front panel.
- **2**. Press the \blacktriangle or \checkmark cursor buttons on the front panel for more than 1 second to start the auto tuning function.
- **3** Automatic searching begins then stops when a station is tuned in.

(Using the remote controller)

- 1. To select tuner and desired band (FM or AM), press the **BAND** button on the remote controller.
- **2**. Press the \triangleleft or \blacktriangleright for more than 1 second on the remote controller.
- **3.** Automatic searching begins then stops when a station is tuned in.

If tuning does not stop at the desired station, use to the "Manual tuning" operation.

MANUAL TUNING



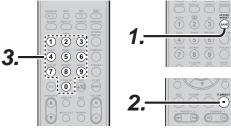
(Using the unit)

- **1**. To select tuner and desired band (FM or AM). press the BAND button on the front panel.
- **2**. Press the \blacktriangle or \checkmark cursor buttons on the front panel to select the desired station.

(Using the remote controller)

- **1** To select tuner and desired band (FM or AM), press the **BAND** button on the remote controller.
- 2. Press the *d* or *b* on the remote controller to tune in the desired station.

DIRECT FREQUENCY CALL



- 1. To select tuner and desired band (FM or AM), press the **BAND** button on the remote controller.
- display will show "FREQ - -".
- **3** Input your desired station's frequency with the numeric buttons on the remote controller.
- **4**. The desired station will automatically be tuned.

(FM) TUNING MODE (AUTO STEREO OR MONO)



When in the auto stereo mode, AUTO indicator will be illuminated on the display.

The "ST" indicator is illuminated when a stereo broadcast is tuned in.

At open frequencies, the noise is muted and the "TUNED" and "ST" indicators are not illuminated.

If the signal is weak, it may be difficult to tune into the station in stereo. In such a case, press the T-MODE button on the front panel or remote controller.

"AUTO" indicator is not illuminated, if FM stereo broadcasts are received in monaural and the "ST" indicator is not illuminated.

To return to auto stereo mode, press the T-MODE button or press **T-MODE** button on the remote controller again. AUTO indicator is illuminated on the display.

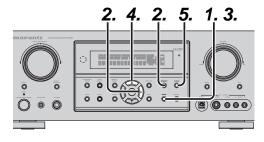
PRESET MEMORY

With this unit you can preset up to 50 FM/AM stations in any order.

For each station, you can memorize the frequency and reception mode if desired.

AUTO PRESET MEMORY

This function automatically scans the FM and AM band and enters all stations with proper signal strength into the memory.



1. To select FM, press the **BAND** button on the front panel.

2. While pressing the **MEMO** button, press the ► cursor button.

"AUTO PRESET" will appear on the display, and scanning starts from the lowest frequency.

Each time the tuner finds a station, scanning 3. will pause and the station will be played for five seconds.

During this time, the following operations are possible.

The band can be changed by the **BAND** button.

If no button is pressed during this period, the current station is memorized in location Preset 02.

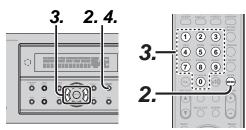
If you wish to skip the current station, press the ▲ cursor button during this period, this station is skipped and auto presetting continues.

5. Operation stops automatically when all 50 preset memory positions are filled or when auto scanning attains the highest end of all bands. If you desire to stop the auto preset memory at anytime, press the CLEAR button.

Note:

It is possible that existing preset memory positions will be overwritten.

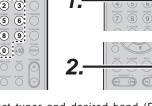
MANUAL PRESET MEMORY



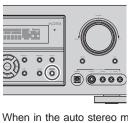
(Using the unit)

- **1**. Tune into the radio station you desire (Refer to the "MANUAL TUNING" or "AUTO TUNING" section).
- 2. Press the MEMORY button on the front panel. "- -" (preset number) starts blinking on the display.
- 3. Select the preset number by pressing the ◀ or **>** cursor buttons, while this is still blinking (approx, 5 seconds)
- 4 Press the **MEMORY** button again to enter. The display stops blinking.

The station is now stored in the specified preset memory location.



- - 2. Press the F.DIRECT on the remote controller,



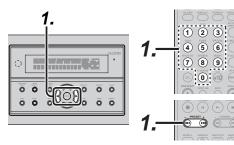
(Using the remote controller)

- **1.** Tune into the radio station you desire (Refer to the "MANUAL TUNING" or "AUTO TUNING" section).
- 2. Press the MEMO button on the remote controller. "---" (preset number) starts blinking on the display.
- **3.** Enter the desired preset number by pressing the numeric buttons.

Note:

When entering a single digit number (2 for example), either input "02" or just input "2" and wait for a few seconds.

RECALLING A PRESET STATION



(Using the unit)

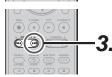
1. Select the desired preset station by pressing the ◀ or ► cursor buttons on the front panel

(Using the remote controller)

1. Press the $| \blacktriangleleft \triangleleft$ or $\triangleright \triangleright |$ buttons to select the desired preset station, or input your desired preset channel with the numeric buttons on the remote controller.

PRESET SCAN





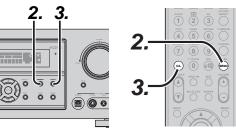
(Using the remote controller)

- **1** Press the **P.SCAN** on the remote controller.
 - "PRESET SCAN" appears on the display and then the preset station with the lowest preset number is recalled first.
- 2 Preset stations are recalled in sequence (No.1 \rightarrow No.2 \rightarrow etc.) for 5 seconds each.
 - No stored preset number will be skipped.
- **3.** You can fast forward the preset stations by pressing the **>>** continuously.

When the desired preset station is received. cancel the preset scan operation by pressing the CLEAR button or P.SCAN on the remote controller.

CLEARING STORED PRESET STATIONS

You can remove preset stations from the memory using the following procedure.



- 1. Recall the preset number to be cleared with the method described in "Recalling" a preset station.
- 2. Press the **MEMORY** button on the front panel or press the MEMO button on the remote controller.
- **3.** The stored preset number blinks in the display for 5 seconds. While blinking, press the CLEAR button on the front panel or the remote controller.
- "xx CLEAR" appears on the display to indicate 4 that the specified preset number has been cleared.

Note:

To clear all stored preset stations, press and hold the CLEAR and the ENTER buttons for two seconds.

SORTING PRESET STATIONS



If you have stations memorized, and there is a gap in the sequential order:

I.e. the stations are stored as follows

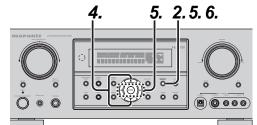
- 1) 87.1 MHz
- 2) 93.1 MHz
- 3) 94.7 MHz
- 10) 105.9 MHz

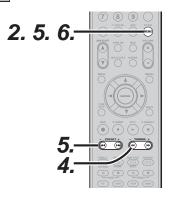
(notice there is no stations programmed for pre sets for 4-9), you can have pre set 10 become pre set 5: To sort the numbers, press the ▼ cursor button while pressing the MEMORY button.

"PRESET SORT" will appear on the display and sorting will be done.

NAME INPUT OF THE PRESET STATION.

This function allows the name of each preset channel to be entered using alphanumeric characters. Before name inputting, you need to store preset stations with the preset memory operation.





- **1**. Recall the preset number to be inputted name with the method described in "Recalling" a preset station.
- ENGLISH 2. Press the **MEMORY** button on the front panel or press the MEMO button on the remote controller for more than 3 seconds.
- **3.** The left most column of the station name indicator flashes, indicating the character entry ready status.
- **4**. When you press the \blacktriangle or \checkmark cursor buttons on the front panel or the ◄ / ► buttons on the remote controller, alphabetic and numeric characters will be displayed in the following order:

 $A \rightarrow B \rightarrow C \dots Z \rightarrow 1 \rightarrow 2 \rightarrow 3 \dots 0 \rightarrow - \rightarrow +$ \rightarrow / \rightarrow (Blank) \rightarrow A

5 After selecting the first character to be entered. press the **MEMORY** or **ENTER** buttons, press the **MEMO** button on the remote controller.

The entry in this column is fixed and the next column starts to flash. Fill the next column the same way.

To move back and forth between the characters. press the ◀/▶ cursor buttons or press I◀◀ or ▶▶ buttons on the remote controller.

Note:

Unused columns should be filled by entering blanks.

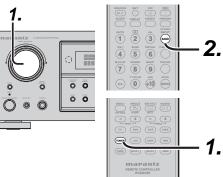
6. To save the name, press the **MEMORY** button on the front panel or remote controller for more than 2 seconds.

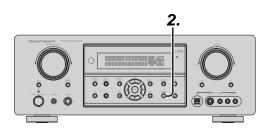
Ten keypad	Press, press again, press again, etc.
Ten Keypau	i ress, press again, press again, etc.
1	$A \to B \to C \to 1 \to A$
2	$D \to E \to F \to 2 \to D$
3	$G \to H \to I \to 3 \to G$
4	$J \to K \to L \to 4 \to J$
5	$M \to N \to O \to 5 \to M$
6	$P \to Q \to R \to 6 \to P$
7	$S \to T \to U \to 7 \to S$
8	$V \to W \to X \to 8 \to V$
9	$Y \rightarrow Z \rightarrow \text{space} \rightarrow 9 \rightarrow Y$
0	$- \rightarrow + \rightarrow / \rightarrow 0$

LISTENING TO XM SATELLITE RADIO (SR5002 ONLY)

SELECTING AN INPUT SOURCE

Before you can listen to XM Satellite Radio, you must first select the input source on the SR5002.



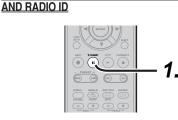


(Using the SR5002)

- 1. Turn the INPUT SELECTOR knob to select "TUNER".
- 2. Press the BAND button to select XM band.

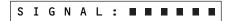
(Using the remote controller)

- **1.** To select tuner, Press the **TUNER** button twice within two seconds on the remote controller.
- 2. Press the BAND button to select XM band.



CHECKING THE XM SIGNAL STRENGTH

1. Press the T.DISP button 3 times to displayed Signal Status.



• The display changes as shown below according to the receiving condition.

> SIGNAL: SIGNAL: STRONG (Signal strength is good)

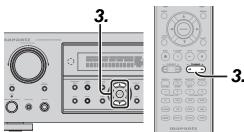
SIGNAL: SIGNAL: MARGINAL (Signal strength is Marginal)

SIGNAL: SIGNAL: WEAK (Signal strength is poor)

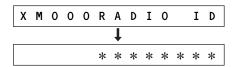
XM NO SIGNAL SIGNAL: NON (Loss of the signal)

2. Adjust the antenna location until signal strength is good.

3. Select channel 0 (XM000) with the ▲ or ▼ cursor buttons of the SR5002 or the **I** ▶▶ buttons of the remote controller.



· The Radio ID is displayed.

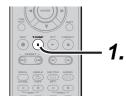


Notes:

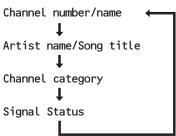
- If "ANTENNA" appears in the front panel display, the XM Mini-Tuner and Home Dock may not be connected to the XM terminal on the rear panel of this unit properly.
- The ATT function is also effective when XM is selected.

SWITCHING XM INFORMATION IN THE FRONT PANEL DISPLAY

You can display XM information (such as artist name/ song title, category or signal status) for the channel currently selected in the front panel display.



1. Press the T.DISP button to displayed INFORMATION.



When the Channel number/name is displayed:

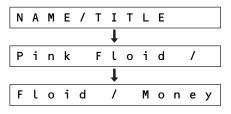
X	Μ	0	4	0	:	D	е	е	р	Т	r	с
						t						
4	0	:	D	е	е	р	Т	r	а	с	k	s

(If text is more than 13 characters long, the text is scrolled.)

Note:

The front Panel display can indicate up to 13 alphanumeric characters at once. If the information contains more then 13 characters, the information scrolls from right to left.

When the channel Artist name/Song title is displayed:



The "NAME/TITLE" is displayed for 2 seconds. followed by the artist's name and song title. (If artist's name or song title is more than 13 characters long, the text is scrolled.)

Note:

The front Panel display can indicate up to 13 alphanumeric characters at once. If the information contains more then 13 characters, the information scrolls from right to left.

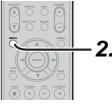
When the channel category is displayed:

C	ΑT	:	R	о	с	k	
---	----	---	---	---	---	---	--

Note:

To change the display content from XM information to SR5002 functions, do so with the **DISPLAY** button.

This XM information can also be displayed on a TV monitor connected to the SR5002.





Press the AMP button on the remote 1. controller.

2. When you press the **INFO** button, the following information will be displayed.



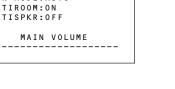
button again. XM information like the following will appear.

	XM I	NFO	RMATION
ХМ	:04	0	
CHAN	:De	ерТ	racks
NAME	:Pi	n k	Floid
NAME TITLE	:Mo	ney	
CAT	:Ro	ck	
SIGNA	L:MA	RGI	NAL

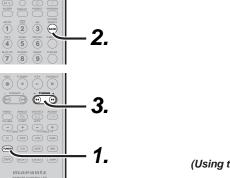
Press the INFO button again. The information 4 display will go out.

Note:

If the information contains a character that cannot be recognized by that unit, the character will be displayed with ""(space).



3. When this display appears, press the INFO



000

(Using the SR5002)

SEARCH MODE

1.

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ALL CHANNEL SEARCH MODE

You can search for the channel you want to listen to

using one of three search modes. You can also enter

BOB

0 0

بتة ة′

2.

the number directly to select the desired channel.

3.

0 0

ōō ō

- 1. Turn the INPUT SELECTOR knob to select "TUNER".
- 2. Press the BAND button to select XM band.
- **3.** Press the \blacktriangle or \blacktriangledown cursor button on the front panel to select the desired station.

(Using the remote controller)

- 1. To select tuner, Press the **TUNER** button twice within two seconds on the remote controller.
- 2. Press the **BAND** button to select XM band.
- 3. Press and hold the ◄ or ► button.

PRESET SEARCH MODE

1.

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3.

2.

ENGLISH

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adatatad. 🖅 0 0 BOD: 0 ōō ö 0 BAND (3) (4) (5) (6). O 3 marantz

(Using the SR5002)

- 1. Turn the INPUT SELECTOR knob to select "TUNER".
- 2. Press the BAND button to select XM band.
- 3. Press the ◀ or ► cursor button on the front panel to select the desired preset station.

(Using the remote controller)

- **1.** To select tuner, Press the **TUNER** button twice within two seconds on the remote controller.
- 2. Press the **BAND** button to select XM band.
- 3. IT or IT button to tune in the desired preset station.

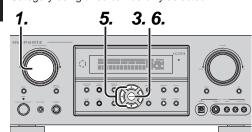
Or enter the preset station number with the numeric buttons.

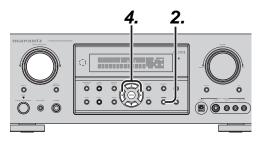
CATEGORY SEARCH MODE

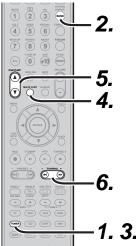
ENGLISH

You can select the desired channel from the category allocated to each channel.

Category being aired can be only selected.







(Using the SR5002)

- 1. Turn the INPUT SELECTOR knob to select "TUNER".
- 2. Press the **BAND** button to select XM band.
- 3. Press the ENTER button on the front panel.
- 4. Press the ◀ or ► button on the front panel to select the desired Category.
- 5. After selecting the Category, Press the ▲ or ▼ cursor button to select the desired station of the category.
- 6. You can return to the normal mode by press the ENTER button during Category Search Mode.

(Using the remote controller)

- **1.** To select tuner, Press the **TUNER** button twice within two seconds on the remote controller.
- 2. Press the BAND button to select XM band.
- 3. Press the **TUNER** button twice within two seconds on the remote controller.
- 4. Press the MULTI/CAT button.
- 5. Press the CAT ▲ or CAT ▼ button.
- 6. After selecting the category, Press the ▶► button to select the desired station of the category.

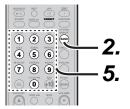
7. You can return to the normal mode by press the **MULTI/CAT** button during Category Search Mode.

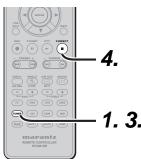
Note:

Category search automatically ends 5 minutes after the last operation.

CHANNEL DIRECT CALL

You can select the desired channel by directly tapping the numeric keypads on the remote controller.





- 1. To select tuner, Press the **TUNER** button twice within two seconds on the remote controller.
- 2. Press the BAND button to select XM band.
- **3.** Press the **TUNER** button twice within two seconds on the remote controller.
- 4. Press the F.DIRECT button.

"XM - - -" will appear on the display.

5. Input the three digit number for your desired Channel with the numeric keypad on the remote controller.

6. The desired channel will automatically be tuned.

Note:

If there is no input on the keypad for 5sec., the input is cancelled to return to the original display

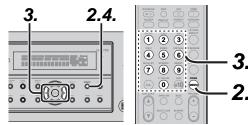
Notes:

- "LOADING" is displayed while receiving the channel or information.
- "UPDATING" is displayed while updating encryption code.
- When the selected channel is not available, "XM --" is displayed.
- "OFF AIR" is displayed while air is suspended (e.g. midnight).

PRESET MEMORY

You can store the desired channel in the Preset Memory.

In addition to AM and FM, it is possible to preset 50 XM channels.



(Using the SR5002)

- 1. Tune into the desired channel.
- 2. Press the **MEMORY** button on the front panel.
 - "- -" (preset number) starts blinking on the display.

- - X M O 4 O

 Select the preset number by pressing the ◄ or ► cursor buttons, While this is still blinking (approx. 5 seconds)

0 1 X M 0 4 0

 Press the MEMORY button again to enter. The display stops blinking.

The station is now stored in the specified preset memory location.

(Using the remote controller)

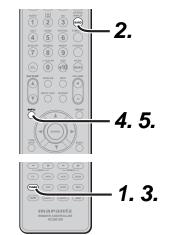
- 1. Tune into the desired channel.
- 2. Press the **MEMO** button on the remote controller. "- -" (preset number) starts blinking on the display.
- **3.** Enter the desired preset number by pressing the **numeric** buttons.

Note:

When entering a single digit number (2 for example), either input "02" or just input "2" and wait for a few seconds.

CHECKING THE XM PRESET CHANNEL

The preset channel can be checked on the on screen display.



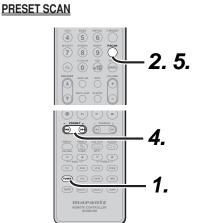
(Using the remote controller)

- To select tuner, Press the TUNER button twice within two seconds on the remote controller.
- **2.** Press the **BAND** button to select XM band.
- **3.** Press the **TUNER** button twice within two seconds on the remote controller.
- **4.** Press the **INFO** button. to view a list of tuner preset channel on the on screen display.
- **5.** If there are 10 or more preset channel, Press the **INFO** button. again.

	X١	1 1	PR	Е	S	E	Т		L	I	S	Т			
N0.	1	ХМ) 1	0		х	х	х	х	х	х	х	х	х	х
ΝΟ.	2	XMO) 1	1		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
ΝΟ.	3	XMO) 1	5		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
ΝΟ.	4	XMO) 2	2		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
ΝΟ.	5	ΧMΥ	12	5		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
ΝΟ.	6	XMO	0 0	1		Ρ	r	e	v	i	e	W			
ΝΟ.	7	XMO	0 0	1		Ρ	r	e	v	i	e	W			
ΝΟ.	8	XMO	0 0	1		Ρ	r	e	v	i	e	W			
NO.	9	XMO	0 0	1		Ρ	r	e	v	i	e	W			

Note:

The preset channel indication disappears in about 5 sec.



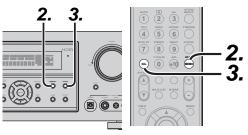
- **1.** Press the **TUNER** button twice within two seconds on the remote controller.
- 2. Press the P.SCAN.
- 3. Preset stations are recalled in sequence (No.1 → No.2 → etc.) for about 5-10 seconds each. The time changes by the received condition. No stored preset number will be skipped.
- **4.** Pressing the ►►I button during prescanning speeds up scanning.

Also, pressing the $| \blacksquare \blacksquare$ button returns to the previous preset station.

5. When the desired preset station is received, cancel the preset scan operation by press the **P. SCAN** button.

CLEARING STORED PRESET STATIONS

You can remove preset stations from the memory using the following procedure.



- Recall the preset number to be cleared with the method described in "PRESET SERCH MODE".
- 2. Press the **MEMORY** button on the front panel or Press the **MEMO** button on the remote controller.
- **3.** The stored preset number blinks in the display for 5 seconds. While blinking, Press the **CLEAR** button on the front panel or **CL** button on the remote controller.
- **4.** "**xx CLEAR**" appears on the display to indicate that the specified preset number has been cleared.

Notes:

- To clear all stored preset stations, press and hold the **CLEAR** (CL) and the **ENTER** buttons for two seconds.
- There are 50 preset channels prepared at the factory default. The 50 channels are all set to "CHANNEL 001". Each channel can be stored in the preset memory. You can search for only the preset channels.

ENGLISH

MULTI ROOM SYSTEM (SR5002 only)

The Multi Room system is a function which allows you to listen to the same or a different source in a room other than the room in which the SR5002 is located.

The operations possible with the multi room function are explained briefly below.

For details, refer to the instruction manual supplied with the multi room remote controller and SR5002.

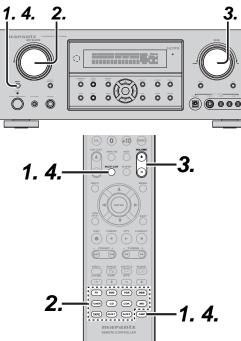
When the outputs of the MULTI OUT terminals are wired and connected to amplifiers installed in other rooms or M (MULTI) SPEAKER B terminals are wired and connected to L&R speakers in other room, different sources can be played in rooms other than the main room in which the SR5002 and the playback devices are installed.

SR5002 has some feature to MULTI ROOM SYSTEM as source selector, sleep timer, Multi Room Speaker output and remote control.

MULTI ROOM PLAYBACK USING THE MULTI ROOM OUT TERMINALS

The SR5002 is equipped with audio pre-out terminals for which the volume is adjustable as the MULTI output terminals.

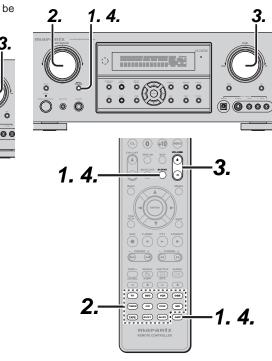
A separately sold stereo power amplifier can be connected to enjoy multi room playback.



- Press the MULTI button on the unit or remote controller (after pressing the AMP button on the remote controller). The unit enters MULTI ROOM mode, and the display indicates "SELECT SOURCE." The "MULTI" indicator will flash for about 10 seconds.
- Select the input source using the INPUT SELECTOR knob or function button on the remote controller.
 Then, the display indicates "MULTI VOLUME" "MULTI VOL. xx" for approx. 5 seconds.
- **3.** During this time, you can set the volume level in the multi room as desired. This will only set the volume in the second room.
- To cancel this function, press the MULTI button on the unit or remote controller (after pressing the AMP button on the remote controller).
 "MULTI" indicator on the front panel will be turned off.

MULTI ROOM PLAYBACK USING THE MULTI SPEAKER TERMINALS

The SR5002 allows you to connect another set of speakers and place them in a different room or separated area for listening to music.



- Press the MULTI SPEAKER (M-SPKR) button. The unit enters multi room speaker mode and the display indicates "SELCT SOURCE" and flashes the "MULTI" indicators for approx. 10 seconds.
- **2.** Select the input source using the INPUT SELECTOR knob or function button on the remote controller.

Then, the display indicates **"MSPKR VOLUME" "MSPKR VOL.-xx**" for approx. 5 seconds.

3. During this time, you can set the volume level in the multi room as desired.

This will only set the volume in the multi room.

4. To cancel this function, press the MULTI button on the unit or remote controller (after pressing the AMP button on the remote controller).

"MULTI" indicator on the front panel will be turned off.

Notes for MULTI ROOM SPEAKER

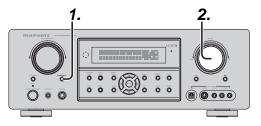
- MULTI ROOM SPEAKER On/ Off is available in main room only.
- MULTI ROOM SPEAKER output terminals can be used when the SURROUND BACK SPEAKER is set NONE in SPEAKER SETUP menu. (See SPEAKER SETUP, page 27)
- "The Surr. Back Speakers are in use" is displayed by pressing the MULTI SPEAKER (M-SPKR) button when the SURROUND BACK SPEAKER is set except NONE in SPEAKER SETUP menu. (See SPEAKER SETUP, page 27)

SURROUND SPEAKER B SYSTEM (SR4002 only)

The Surround Speaker B system is a function which allows you to listen to the same source in a room other than the room in which the SR4002 is located. The operations possible with the Surround speaker function are explained briefly below.

ANOTHER ROOM PLAYBACK USING THE S (SURROUND) SPEAKER B TERMINALS

The SR4002 allows you to connect another set of speakers and place them in a another room or separated area for listening to music. The SURROUND SPEAKER B system can not be operated with the supplied remote controller.



- 1. Press the S (Surround) SPEAKER B button. The unit enters surround speaker B mode and the "SPKR B" will appear on the display.
- **2.** The volume of S. SPEAKER B is interlocked with the main volume.

Notes for SURROUND SPEAKER B

- SURROUND SPEAKER B On/ Off is available in main room only.
- SURROUND SPEAKER B output terminals can be used when the SURROUND BACK SPEAKER is set NONE in SPEAKER SETUP menu. (See SPEAKER SETUP, page 27)
- "The Surr. Back Speakers are in use" is displayed by pressing the **S. SPEAKER B** button when the SURROUND BACK SPEAKER is set except NONE in SPEAKER SETUP menu. (See SPEAKER SETUP, page 27)
- Surround Speaker B function is unavailable, while the unit is 7.1 CH input mode.

TROUBLESHOOTING

In case of trouble, check the following before calling for service:

- 1. Are the connections made properly ?
- 2. Are you operating the unit properly following the user's guide ?
- 3. Are the power amplifiers and speaker working properly ?

If the unit does not operate properly, check items shown in the following table.

If your trouble cannot be recovered with the remedy actions listed in the following table, malfunction of the internal circuitry is suspected; immediately unplug the power cable and contact your dealer, nearest Marantz authorized dealer or the Marantz Service Center in your country.

SYMPTOM	CAUSE	REMEDY					
This unit cannot be turned up.	The power plug is not connected.	Connect the power plug to the outlet.					
No sound and picture are output	Mute is on.	Cancel mute using the remote controller.					
even when power is on.	The input cable is not connected correctly.	See the connection diagram and connect the cables correctly.					
	The master volume control is turned all the way down.	Adjust the master volume.					
	The SOURCE position is wrong.	Select correct position.					
No speaker output.	The headphones are connected to the headphone jack.	Disconnect the headphones. (Speakers will not output sound when headphones are connected.)					
Incorrect Audio or Video for selected source.	Input cable connected incorrectly.	Connect the cable correctly by referring to the connection diagram.					
Incorrect Audio from a channel.	Speaker cable connected incorrectly. Connect the cable correctly by ref connection diagram.						
No Audio output from the center channel speaker.	The center speaker cable connection is incomplete.	Connect the cable correctly.					
	STEREO has been selected for Surround mode.	When STEREO is selected for Surround mode, no sound will be output from the center speaker. Se another Surround mode.					
	Center = NONE has been selected in SETUP mode.	Make the correct setting.					
No Audio output from the surround speakers.	The surround speaker cable connection is incomplete.	Connect the cable correctly.					
	STEREO has been selected for Surround mode.	When STEREO has been selected for Surround mode, no sound will be output from the surround speaker. Set another Surround mode.					
	Surround = NONE has been selected in SETUP mode.	Make the correct setting.					
No Audio output from the surround back speakers.	The surround back speaker cable connection is incomplete.	Connect the cable correctly.					
	Surround mode is not EX/ES mode.	Set surround mode EX/ES.					
	Surround back = NONE has been selected in SPEAKERS SIZE SETUP	Make the correct setting.					

SYMPTOM	CAUSE	REMEDY					
Can not select EX/ES mode.	Surround center= NONE has been selected in SPEAKERS SIZE SETUP	Make the correct setting.					
	Input signal is incompatible.	Use 5.1channel source.					
Can not select Pro Logic IIx mode.	Input signal is incompatible.	Use 2 channel Dolby Digital input signal, PCM input signal or analog input signal.					
Can not select Neo:6 mode.	Input signal is incompatible.	Use 2 channel Dolby Digital input signal, PCM input signal or analog input signal.					
Can not select CSII mode.	Input signal is incompatible.	Use 2 channel Dolby Digital input signal, PCM input signal or analog input signal.					
No output to Sub Woofer Out.	Sub-woofer = NONE has been selected in SETUP mode.	Select Sub-woofer = YES.					
Noise is produced during DTS- encoded CD or laser disc play.	Analog has been selected for input.	Be sure to perform digital connection, select digital input, then play.					
A specific channel does not produce output.	Nothing recorded on source.	Check the encoded channel on the source side.					
FM or AM reception fails.	Antenna connection is incomplete.	Correctly connect the indoor FM and AM antennas to FM and AM antenna outlets.					
Noise is heard during AM reception.	Reception is affected by other electrical fields.	Try changing location where the AM indoor antenn is set up.					
Noise is heard during FM reception.	The radio waves from the broadcasting station are weak.	Install an FM outdoor antenna.					
Cannot get programmed station when the PRESET button is pressed.	Preset data has been erased.	Disconnecting power plug for long periods of time will erase preset data. If that happens, input the preset data again.					
Control with the remote	Batteries are consumed.	Replace all the batteries with new ones.					
controller fails.	Remote controller's function-key setting is wrong.	Select different position from which equipment will be controlled.					
	The distance between this unit and the remote commander is too far.	Move closer to this unit.					
	Something is blocking this unit and the remote commander.	Remove offending object.					
MRAC is not working.	Headphones are connected.	Disconnect the headphones.					
MRAC is going to CANCEL mode automatically.	Are the speakers set to OFF?	Set SPK A or SPK B to ON.					

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SYMPTOM	CAUSE	REMEDY						
	The connected monitor or projector does not support HDCP.							
The display does not appear over an HDMI connection.		Connect to equipment that supports HDCP. Please change the method of connection.						
	The HDMI input of on the TV is not on.	Set HDMI input so that it turns on, as explained in the TV's instruction manual.						
	The HDMI output on the source component (DVD, Set Top Box, etc.) is not on.	Set HDMI output so that it turns on, as explained in the source component's instruction manual						
	The HDMI mode is not correctly set on the unit.	Set HDMI input on the FUNC INPUT SETUP menu as explained on page 33.						
	The HDMI output video resolution of the source component (DVD, Set Top Box, etc.) does not match the TV specifications.	Set the resolution so that it matches, as explained in the instruction manuals of both components.						
	The device is connected with a non-standard HDMI cable.	A 5 m or shorter cable is recommended to ensure stable operation and prevent image quality deterioration.						
	Power to the unit is off. (When the unit is on standby, HDMI connections cannot be turned on.)	Turn on the power to the unit.						
	The connection between HDMI components was not authenticated.	t Shut off and then turn the power back on to the unit, TV and source component.						
The SR4002/5002 OSD menu does not appear over an HDMI connection.	The unit SETUP menu does not support HDMI output.	Use the COMPONENT VIDEO, S-VIDEO or VIDEO output.						
Time is needed for the display of an HDMI connection to appear.	The connection is being authenticated between the HDMI devices.	There is nothing wrong with the system. Some HDMI devices require time for authentication.						
Audio is not played back over an HDMI connection.	The HDMI audio output of the source component (DVD, Set Top Box, etc.) is not on.	Set the HDMI audio output so that it turns on, as explained in the source component's instruction manual.						
	The signal format of the source component (DVD, Set Top Box, etc.) is not supported by the unit.	Set the HDMI audio output so that it can connect to the unit, as explained in the source component's instruction manual.						
	The unit is set to the HDMI audio "THROUGH" mode.	In the "THROUGH" mode, sound is not produced from the unit. Set it to "ENABLE". (see page 30)						
DVD-Audio is not played back over an HDMI connection.	The DVD player does not support CPPM, therefore it cannot output HDMI audio.	 Use a DVD-Audio player that supports CPPM. Turn on PCM downsampling on the DVD player. Use an analog connection. 						
Super Audio CD is not played back over an HDMI connection.	The current HDMI connection does not support Super Audio CDs.	Use an analog connection.						

XM SATELLITE RADIO

If a problem should arise, first check the following.

- 1. Are the connections correct?
- 2. Have you operated the receiver according to the operating instructions?
- 3. Are the speakers and other components operating properly?

If this unit is not operating properly, Check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

SYMPTOM	CAUSE	REMEDY
"ANTENNA" is displayed.	XM terminal and the XM Mini-Tuner and Home Dock is not properly connected.	Check that the connection are correct.
"NO SIGNAL" is displayed.	The signal cannot be received.	Reposition your XM Mini-Tuner and Home Dock.
Receiving only XM channels 0 and 1.	The XM Tuner is not activated.	Contact XM Radio.

Note:

Sometimes, when "PROTECT" is shown on the unit's display, the standby indicator flashes slowly (twice a second). When this happens, turn off the unit's power and remove the power cable. Then follow the procedure described below:

- Check to ensure that the speaker cables connected to the unit have not been connected with + and connections reversed.
- Check to ensure that the speaker cables connected to the unit are not short-circuiting (check the connections both on the unit and on the speakers). (Check that the playback volume is not greater than the unit can handle.)
- Check that the playback volume is not greater than the unit can handle.

After completing the above checks, connect the power cable and switch the unit back ON using the remote control.

Then, after reducing the volume, start playback and check that "PROTECT" is not appearing on the display and that there is no problem with speaker connections to the unit or with sound reproduction.

If the same problem re-occurs, please contact your local service center to have it repaired.

On rare occasions, the unit will go into standby mode with the standby indicator flashing rapidly (eight times a second). When this happens, it means that some major problem has occurred with the unit.

Quickly disconnect the power cable and take the unit to your local service center to have it repaired.

7.1 CH INPUT (SR4 MULTI (SR5002)	002) SIMPLE SETUP EXIT	ATT

FRONT KEY (BUTTON) LOCK OF THE UNIT

If the **SIMPLE SETUP** and **EXT** buttons on the front panel are both pressed at the same time for three seconds or more, all the buttons on the front panel, (excluding the **POWER ON/OFF** button), as well as the **INPUT SELECTOR** knob and **VOLUME** knob, will become locked. "F-KEY LOCK!" will appear in the display.

Release the lock by pressing the same two keys again at the same time for three seconds or more. "F-KEY UNLOCK" will appear in the display, and the keys will unlock.

GENERAL MALFUNCTION

If the equipment malfunctions, this may be because an electrostatic discharge or AC line interference has corrupted the information in the equipment memory circuits. Therefore:

- disconnect the plug from the AC line supply
- after waiting at least three minutes, reconnect the plug to the AC line supply
- re-attempt to operate the equipment

Memory backup

 In case a power outage occurs or the power cord is accidentally unplugged, this unit is equipped with a backup function to prevent memory data such as the preset memory from being erased.

HOW TO RESET THE UNIT

Should the operation or display seem to be abnormal, reset the unit with the following procedure. To turn on the SR4002, press and hold the **7.1CH INPUT** and **ATT** buttons simultaneously for 3 seconds or more.

To turn on the SR5002, press and hold the $\ensuremath{\textbf{MULTI}}$ and $\ensuremath{\textbf{ATT}}$ buttons simultaneously for 3 seconds or more.

Remember that the procedure will reset the settings of the SOURCE, Surround mode, delay time, TUNER

TECHNICAL SPECIFICATIONS

FM TUNER SECTION

Frequency Range	
Usable Sensitivity	IHF 1.8 µV/16.4 dBf
Signal to Noise Ratio	Mono/Stereo 75/70 dB
Distortion	Mono/Stereo 0.2/0.3 %
Stereo Separation	1 kHz 45 dB
Alternate Channel Selectivity	± 300 kHz 60 dB
Image Rejection	
Tuner Output Level1 k	(Hz, ± 75 kHz Dev 800 mV

AM TUNER SECTION

Frequency Range	520 – 1710 kHz
Signal to Noise Ratio	50 dB
Usable Sensitivity	Loop 400µV/m
	400Hz, 30 % Mod. 0.5 %
	± 20 kHz 70 dB

AUDIO SECTION (SR4002)

Power Output (20 Hz – 20 kHz, Front L&R Center Surround L&R Surround Back L&R	8 ohms 80 W / Ch 8 ohms 80 W / Ch 8 ohms 80 W / Ch
Front L&R Center Surround L&R Surround Back L&R	
Input Sensitivity/Impedance Signal to Noise Ratio(Analog Inpu Frequency Response (Analog Input / Pure Direct)	t / Pure Direct) 105 dB
(Digital Input / 96 kHz PCM)	8 Hz – 100 kHz (± 3 dB) 8 Hz – 45 kHz (± 3 dB)

AUDIO SECTION (SR5002)

Power Output (20 Hz – 20 kHz/TH Front L&R Center Surround L&R Surround Back L&R	8 ohms 90 W / Ch 8 ohms 90 W / Ch 8 ohms 90 W / Ch
Front L&R Center Surround L&R Surround Back L&R	6 ohms 110 W / Ch 6 ohms 110 W / Ch
Input Sensitivity/Impedance Signal to Noise Ratio(Analog Input / P Frequency Response (Analog Input / Pure Direct)	Pure Direct) 105 dB
(Digital Input / 96 kHz PCM)	()

VIDEO

Television Format	NTSC
Input Level/Impedance	1 Vp-p/75 ohms
Output Level/Impedance	1 Vp-p/75 ohms
Video Frequency Response	
Video Frequency (Component)	5 Hz to 80 MHz (- 1 dB)
S/N	

GENERAL (SR4002)

Power Requirement	AC 120 V 60Hz
Power Consumption	450 W
Weight	25.1 lbs (11.4 Kg)

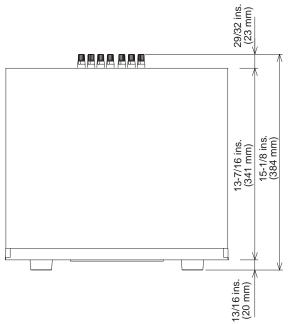
GENERAL (SR5002)

Power Requirement	AC 120 V 60Hz
Power Consumption	500 W
Weight	

ACCESSORIES

Remote Controller RC5001SR
FM Antenna
AM Loop Antenna1
Front AUX Jack Cover1
AC Power Cord1
Microphone MC-101
User Guide1
Warranty Card (USA x 1, Canada x 1)

DIMENSIONS



17-5/16 ins. (440 mm) marant: 5-3/4 ins. (146 mm) 6-5/16 ins. (160 mm) \bigcirc ō ō ō 0 \bigcirc \bigcirc 0. ō 9/16 ins. (14 mm)

Specifications subject to change without prior notice.

SETUP CODES

Acer	
AOC	1003, 1024, 1049, 1127
Benq	1104, 1142
	1003, 1097, 1098, 1113
Celebrity	
Citizen	
	1026, 1059, 1063
Colortyme	
	1020, 1022, 1023, 1113
Curtis Mathes	
	1026, 1062, 1103, 1110
Doowoo	1003, 1013, 1024, 1035
Daew00	1036, 1059, 1084, 1101
Doutrop	
	1001, 1003, 1069, 1133
Emerson	
	1020, 1021, 1022, 1023
	1025, 1038, 1044, 1045
	1048, 1055, 1061, 1094
	1096, 1099, 1101, 1113
Envision	
Fisher	1025, 1051, 1091, 1160
Fujitsu	1038, 1124, 1125, 1155
	1003, 1018, 1022, 1046
	1054, 1069, 1085, 1103
11	10, 1113, 1133, 1136, 1153
	,,,,

Goldstar	
	1030, 1045, 1080 1100, 1112, 1154
Hallmark	
	1003, 1012, 1031, 1032
	1037, 1041, 1045, 1047
	1065, 1068, 1082, 1088
1094.	, 1139, 1140, 1145, 1159
· · · · ,	1019, 1024, 1026
	1046, 1047, 1054
	1063, 1083, 1085
	1100, 1103, 1110
	1112, 1133, 1154
Jensen	
	1047, 1050, 1060, 1065
	. 1023, 1056, 1057, 1134
KTV	
	1034, 1073, 1099, 1113
iviagnavox	
	1056, 1057, 1063 1067, 1081, 1106
Morontz	. 1003, 1031, 1067, 1122
	1115, 1122, 1133
Motorola	
	, 1012, 1024, 1043, 1069
Panasonic 1017.	, 1067, 1069, 1095, 1111
	1003, 1011, 1045, 1052
1	
	1054, 1056, 1057, 1058 1063, 1067, 1069, 1106
Pioneer	
	1070, 1071, 1094
	1145, 1147, 1149
Plasmsync	
Portland	1003, 1013, 1024, 1059
Prism	

Proscan	1004, 1005, 1006, 1007
	1008, 1085, 1103, 1110
	1069, 1073, 1111, 1153
Radio Shack	1003, 1013, 1015
	1023, 1024, 1025, 1045
	1100, 1103, 1110, 1113
RCA	
	1006, 1007, 1008
	1014, 1024, 1049, 1069
	1075, 1079, 1085, 1087
	1088, 1093, 1094, 1101
	1103, 1110, 1113, 1153
Realistic	1013, 1015, 1023, 1025
licalotio	1045, 1100, 1103, 1110
Dunne	
Samsung	1003, 1013, 1024, 1026
	1040, 1045, 1062, 1078
1083	3, 1090, 1100, 11051114
	1121, 1146, 1148, 1157
Sanyo	1003, 1025, 1051, 1072
1077,	1091, 1156, 1157, 1158
Sharp	
	1015, 1045, 1055, 1064
	1066, 1076, 1089, 1123
Cierceture	
Signature	
	1001, 1102, 1108
Soundesign 1003,	1023, 1038, 1063, 1113
Starlite	
Supre-Macv	
Sylvania	
Cyrvania	1052, 1053, 1056, 1057
- · ·	1063, 1067, 1089, 1151
Tandy	
Tatung	
Technics	
	1003, 1009, 1013, 1023
IEKIIIKa	
	1024, 1026, 1038, 1045
	1059, 1063, 1111, 1113
Telecaption	
Toshiba	
	1026, 1042, 1074, 1098
	1107, 1111, 1135, 1136
Tata dalar	
Universal	

Video Concepts	
Viewsonic	
	1128, 1129, 1130, 1131
	1138, 1143, 1145, 1150
Wards	
	1024, 1038, 1044, 1046
	1052, 1054, 1056, 1057
	1067, 1086, 1103, 1110
White Westinghouse	
Yamaha	
Zenith	
	1132, 1144, 1153

VCR

Adventura Aiko Aiwa	
/ ((d)	3054, 3072, 3073
American High	
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Audio Dynamics	
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Cybernex	
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Dimensia		.3004,	3063.	3085	Μ
Dixon					Μ
Dynatech					
Electrohome					
Electrophonic					М
Emerson					
Emerson					M
		3019,			Μ
		3052,			M
Fisher					Μ
Fuji			.3003,	3009	
Funai					Μ
Garrard					Μ
GE					M
02			3028		M
			3074		N
					IN
Go Video					
	3052,	3067,	3068,	3069	Ν
Goldstar					N
Gradiente			.3035,	3052	0
Harley Davidson				. 3035	0
Harman Kardon					0
Harwood					Ō
Headquarter					P
Hitachi 3004					P
					P
Homeline					
Instant Replay					P
JBL					Pi
JC Penney					Pi
	3021,	3029,	3034,	3040	
	3052,	3062,	3067,	3083	P
JCL				. 3009	P
Jensen					P
JVC					P
000			3041		P
	2010	3049,			Q
Karawa a d					
Kenwood					Q
KLH					Q
Kodak					R
LG			.3031,	3052	
Lloyds		.3034,	3035,	3056	R
Logik				. 3067	R
LXĬ					R
Magnasonic					
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		3045,			R
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35	Motorola				
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58	Multitech		.3021,	3035,	3067
35	NEC		.3033,	3034,	3040
37			3048.	3072,	3083
69	Nikko		·	· · · · · · · · · · · · · · · ·	3052
52	Noblex				
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)9	Proscan		3004	3063	3085
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52	Radio Shack	3021,	3052,	3009,	3008
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Samsung 2008, 2012, 2022, 2024, 2027
Sanyo
Sharp2044, 2045 Sherwood
Sony
Toshiba
Yamaha
Zenith

DSS

Alphastar
BSB4021
Chaparral4039
DIRECTV
DISH Network
Drake
Echostar 4007, 4017, 4018, 4019, 4020
Express Vu4017
Fujitsu4025
GE4002, 4008, 4009
General Instruments4036, 4037
Hitachi4001, 4015

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Mitsubishi	
Panasonic	
Philips	
Proscan	. 4002, 4008, 4009, 4011
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RCA	. 4002, 4008, 4009, 4029
Realistic	
Rural Cable	
Samsung	
Sony	
Star Choice	
Star Trak	
SuperDish	
Toshiba	
	4005, 4006, 4013
Zenith	

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