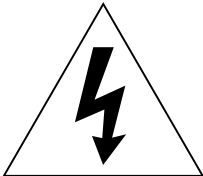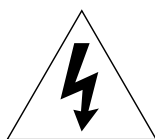# marantz ®

Model SR4300 User Guide

AV Surround Receiver

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,

DO NOT REMOVE COVER (OR BACK)

NO USER-SERVICEABLE PARTS INSIDE

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

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 PRODUCT TO RAIN OR MOISTURE.

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

ATTENTION: POUR ÉVITER LES CHOC 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.

1. Read Instructions – All the safety and operating instructions should be read before the product is operated.

2. Retain Instructions – The safety and operating instructions should be retained for future reference.

3. Heed Warnings – All warnings on the product and in the operating instructions should be adhered to.

4. Follow Instructions – All operating and use instructions should be followed.

5. Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Attachments – Do not use attachments not recommended by the product manufacturer as they may cause hazards.

7. Water and Moisture – Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

8. Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

10. Ventilation – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Grounding or Polarization – This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
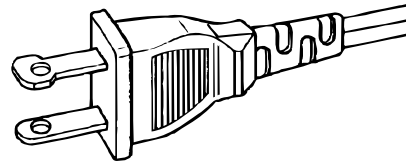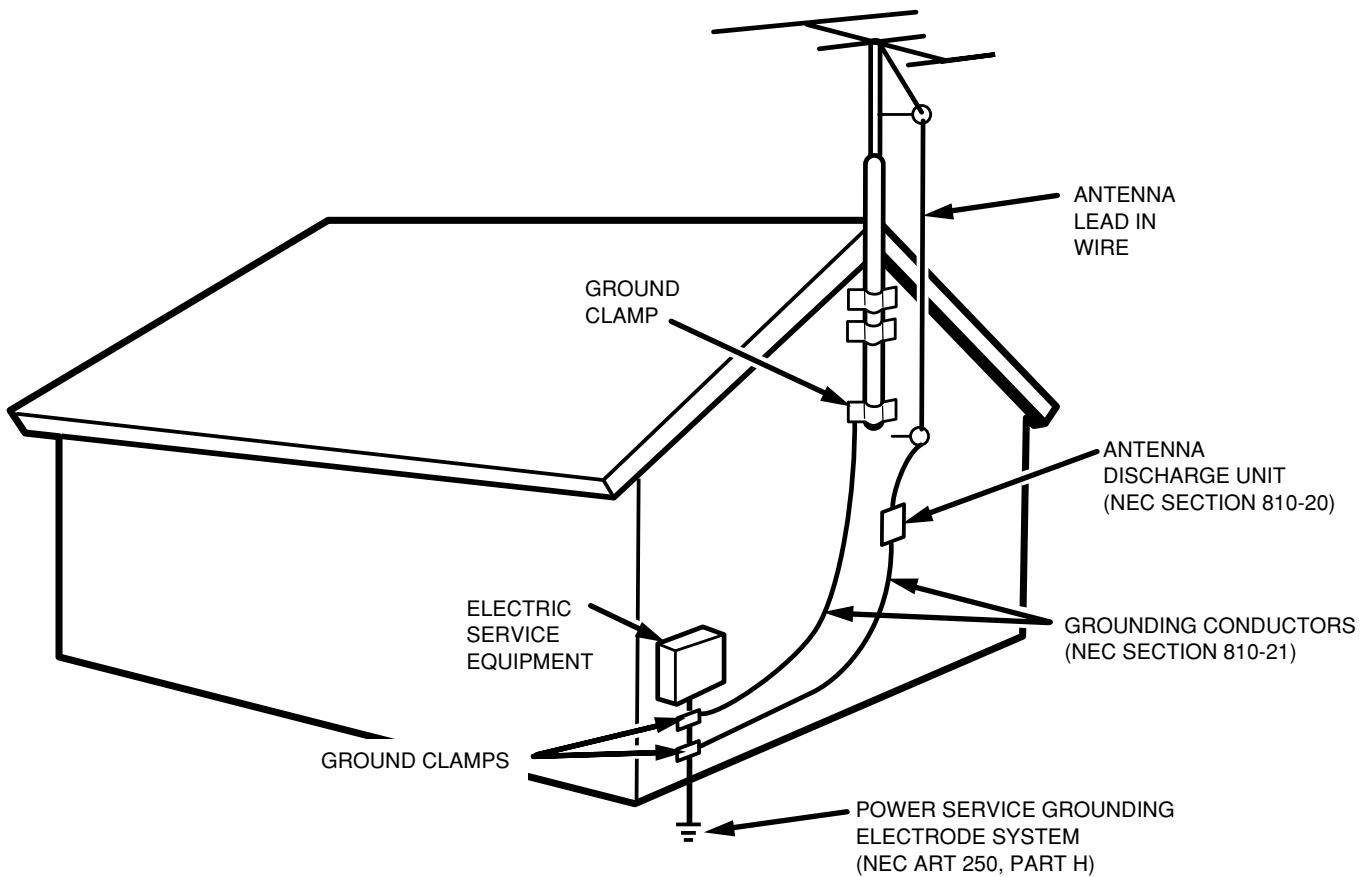

AC POLARIZED PLUG

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

14. Protective Attachment Plug – The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.

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

18. Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

19. Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

i

20. Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

21. Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power-supply cord or plug is damaged.

b. If liquid has been spilled, or objects have fallen into the product.

c. If the product has been exposed to rain or water.

d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e. If the product has been dropped or damaged in any way, and

f. When the product exhibits a distinct change in performance – this indicates a need for service.

22. Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

23. Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

24. Wall or Ceiling Mounting – The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

25. Heat – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

FIGURE 1
EXAMPLE OF ANTENNA GROUNDING AS PER
NATIONAL ELECTRICAL CODE, ANSI/NFPA 70

ANTENNA LEAD IN WIRE

GROUND CLAMP

ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)

ELECTRIC SERVICE EQUIPMENT

GROUNDING CONDUCTORS (NEC SECTION 810-21)

GROUND CLAMPS

POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

NEC - NATIONAL ELECTRICAL CODE

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.

TABLE OF CONTENTS

INTRODUCTION

Thank you for purchasing the Marantz SR4300 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 SR4300.

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.

DESCRIPTION

DIGITAL dts 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 multi-channel digital sound to both movies and music.

DTS is a multi-channel 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" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

dts nΞ□: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 two-channel matrix stereo material. It is better than a simple matrix in that it includes steering logic to improve separation, but because of its mono, band-limited 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.

EXTENDED dts ES SURROUND

DTS-ES Extended Surround is a new multi-channel 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", "DTS-ES Extended Surround" and "Neo:6" are trademarks of Digital Theater Systems, Inc.

DOLBY DIGITAL·EX PRO LOGIC II

Dolby Digital identifies the use of Dolby Digital (AC-3) 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.

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

CS II by SRS

Circle Surround II (CS-II) is a powerful and versatile multi-channel technology. CS-II is designed to enable up to 6.1 multi-channel 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.

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

FEATURES

BUILT-IN 6 CHANNEL POWER AMPLIFIER

80 watts to each of the six main channels ; the power amp section features an advanced, premium high- storage power supply capacitors, and fully discrete output stages housed in cast aluminum heat sinks .

96 kHz/24-BIT D/A CONVERTER FOR ALL CHANNELS

High performance digital circuitry with 96 kHz / 24-bit D/A converter for all 7 channels.

DTS-ES

DTS-ES decoder built in to decode the impeccable 6.1-channel discrete digital audio from DTS-ES encoded DVD-Video discs, DVD-Audio discs and CDs.

DOLBY DIGITAL EX

Dolby Digital EX decoder built in to create six full-band width output channels from the 5.1-channel digital audio of DVDs, Digital TV, HDTV, satellite broadcasts and other sources.

DOLBY PRO LOGIC II

Dolby Pro Logic II decoder provides better spatiality and directionality on Dolby Surround program material and provides a convincing three-dimensional sound field on conventional stereo music recordings.

DTS-NEO6

DTS-Neo6 decoder built in to decode 6.1-channel surround sound from any stereo material.

CIRCLE SURROUND II

CIRCLE SURROUND II decoder built in to decode 6.1-channel surround sound from any stereo or passive matrix-encoded material.

SOURCE DIRECT MODE

Source Direct mode bypasses, tone controls and bass management for purest audio quality.

6.1 CHANNEL PRE-AMP OUTPUTS

6.1 channel pre-amp outputs for connection to external components such as a subwoofer and external power amplifiers.

6.1CH DIRECT INPUT

6.1ch direct inputs accommodate future multi-channel sound formats or an external digital decoder.

4 DIGITAL INPUTS AND 2 DIGITAL OUTPUTS

4 Digital inputs for connection to other sources, such as DVD player, Satellite tuner, CD player, CD recorder or MD deck.
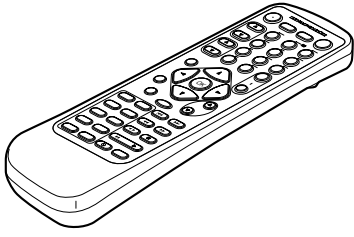**2 Digital outputs** for connection to CD recorder or MD deck.

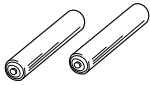## 30 STATION RANDOM ACCESS PRESET TUNING

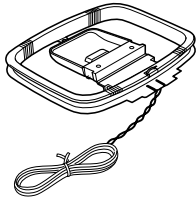High-quality AM/FM tuner with 30 station random access preset tuning.

ACCESSORIES

Remote Controler RC4300SR

AAA-size batteries X 2

AM Loop Antenna

FM Antenna
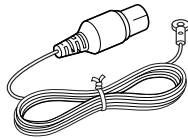
Registration Card
User Guide

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FRONT PANEL
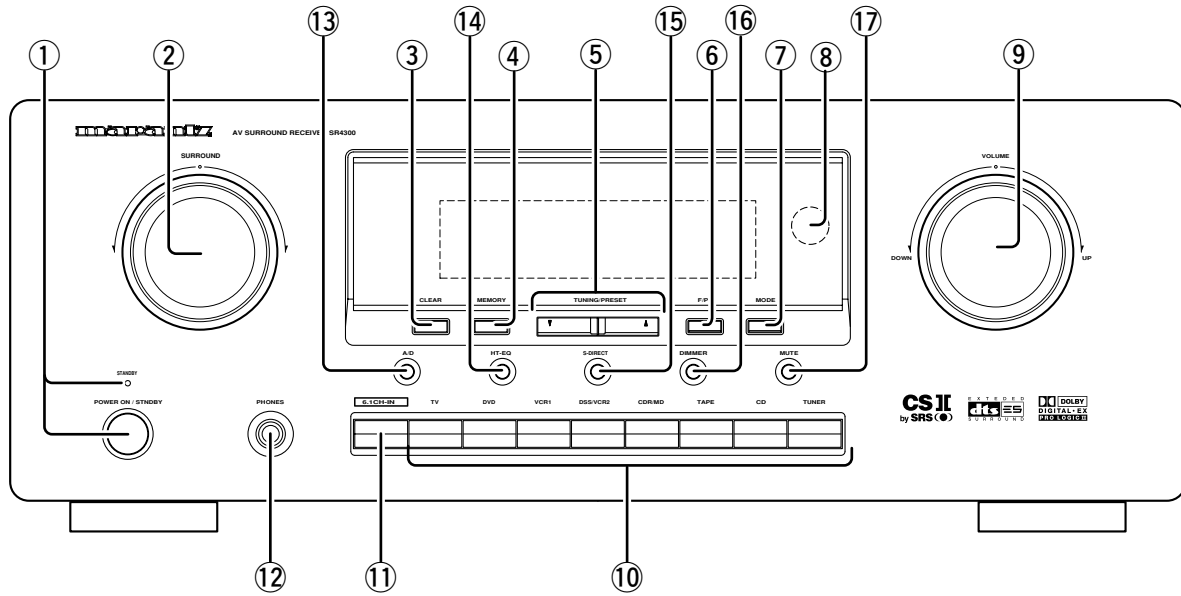
① **POWER switch and STANDBY indicator**

When this switch is pressed once, the unit turns ON and display appears on the display panel. When pressed again, the unit turns OFF and the STANDBY indicator lights.

When the STANDBY indicator is turned on, the unit is NOT disconnected from the AC power.

② **SURROUND MODE Selector knob**

When this knob is turned, the surround mode is switched sequentially.

Note:

• Available surround mode is depending on the input signal.

③ **CLEAR button**

Press this button to cancel the station-memory setting mode or preset scan tuning.

④ **MEMORY button**

Press this button to enter the tuner preset memory numbers or station names.

⑤ **TUNING UP / DOWN buttons**

Press thses buttons to change the frequency or the preset number.

⑥ **F/P (FREQUENCY / PRESET) button**

During reception of AM or FM, you can change the function of the UP/ DOWN buttons for scanning frequencies or selecting preset stations by pressing this button.

⑦ **MODE button**

Press this button to select the auto stereo mode or mono mode when the FM band is selected.

The "**AUTO**" indicator lights in the auto stereo mode.

⑧ **Infrared receiving (IR) sensor window**

This window receives infrared signals for the remote control unit.

⑨ **VOLUME control knob**

Adjusts the overall sound level. Turning the control clockwise increases the sound level.

⑩ **INPUT FUNCTION SELECTOR buttons (AUDIO/ VIDEO)**

These buttons are used to select the input sources.

The video function selector, such as TV, DVD, VCR1 and DSS/VCR2, selects video and audio simultaneously.

Audio function sources such as CD, TAPE, CDR/MD, TUNER, and 6.1CH-IN may be selected in conjunction with a Video source.

This feature (Sound Injection) combines a sound from one source with a picture from another.

Choose the video source first, and then choose a different audio source to activate this function.

Press **TUNER** button to switch the between FM or AM.

⑪ **6.1CH IN button**

Press this button to select the output of an external multi channel decoder. Press this button again to return the preivious function.

⑫ **PHONES jack for stereo headphones**

This jack may be used to listen to the SR4300's output through a pair of headphones. Be certain that the headphones have a standard 1 / 4" stereo phone 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 automatically change to STEREO.
- The surround mode returns to the previous setting as soon as the plug is removed from the jack.

⑬ **A/D (Analog/Digital) SELECTOR button**

This is used to select between the analog and digital inputs.

Note:
- This button is not used for an input source that is not set to a digital input in the system setup menu.

⑭ **HT-EQ button**

Used to turn on or off HT (Home Theater)-EQ mode when the surround mode is set as AUTO, DOLBY, DTS or STEREO.
This mode compensates for the audio portion of a movie sounding "bright". When this button is pressed, "EQ" indicator lights up.

⑮ **S- (Source) DIRECT button**

When this button is pressed, the tone control circuitry is bypassed as well as Bass Management.

Notes:
- The surround mode is automatically switched to AUTO when the source direct function is turned on.
- S-DIRECT is turned off when the other surround mode is selected with the SURROUND mode selector knob or the surround mode buttons of the remote controller.
- Additionally, Speaker Configurations are fixed automatically as follow.
  (Front SPKR = Large, Center SPKR = Large, Surround SPKR = Large, Sub woofer = On)

⑯ **DIMMER button**

When this button is pressed once, the display is dimmed.
When this button is pressed twice, the display is turned off and "DISP" indicator lights up.
Press this button again to turn the display ON again.

⑰ **MUTE button**

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

FL DISPLAY

(1) **TEST tone indicator**

This indicator blinks in generating the test tone in speaker level setup.

(2) **DISP (Display Off) indicator**

This indicator lights when the SR4300 is in the display off condition.

(3) **TUNER's indicators**

AUTO : This indicator illuminates when the tuner's Auto mode is in use.
ST(Stereo) : This indicator illuminates when an FM station is being tuned in stereo condition.
TUNED : This indicator illuminates when a station is being received with sufficient signal strength to provide acceptable listening quality.

(4) **INPUT SOURCE indicators**

These indicators show the current input source.

(5) **6.1 CHANNEL DIRECT IN indicator**

This indicator lights up when the 6.1CH-IN has been selected as a input source.

(6) **AUTO.SURR (Auto Surround mode) indicator.**

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

(7) **DIRECT (Source direct) indicator**

This indicator lights when the SR4300 is in the SOURCE DIRECT mode.

(8) **EQ mode indicator**

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

(9) **SLEEP timer indicator**

This indicator lights when the seep timer function is in use.

(10) **DIGITAL Input Indicator**

This indicator lights when digital input has been selected.

(11) **ANALOG input indicator**

This indicator lights when an analog input source has been selected.

(12) **SIGNAL FORMAT indicators**

ᴰᴰ DIGITAL, EX, ᴰᴰ SURROUND, dts, ES, PCM and 96kHz
When the selected input is a digital source, some of these indicators will light to display the specific type of signal in use.

(13) **ENCODED CHANNEL STATUS indicators**

These indicators display the channels that are encoded with a digital input signal. If the selected digital input signal is Dolby Digital 5.1ch or DTS 5.1ch, "L", "C", "R", "SL", "SR" and "LFE" will light up.If the digital input signal is 2 channel PCM-audio, "L" and "R" will be displayed.
If Dolby Digital 5.1ch signal with Surround EX flag or DTS-ES signal comes in, "L", "C", "R", "SL", "S", "SR" and "LFE" will show.

(14) **ATT (Attenuation) indicator**

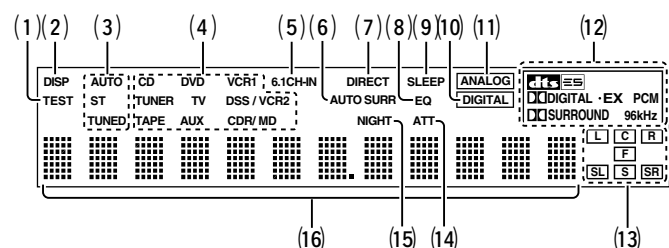This indicator lights when the attenuation function is active.

(15) **NIGHT mode indicator**

This indicator lights when the SR4300 is in the Night mode, which reduces the dynamic range of digital program material at low volume levels.

(16) **Main Information Display**

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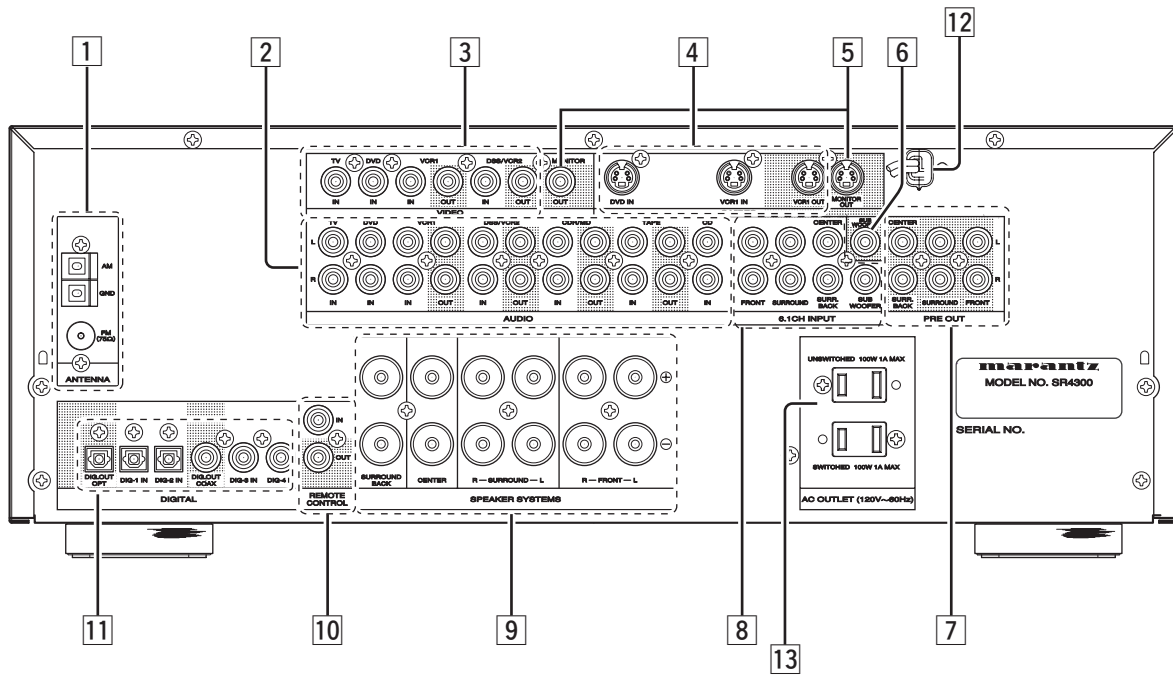
REAR PANEL

① 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

② AUDIO IN/OUT (CD, TAPE, CDR/MD, TV, DVD, VCR1, DSS/VCR2)

These are the analog audio inputs and outputs. There are 7 audio inputs (4 of which are linked to video inputs) and 4 audio outputs (2 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.

③ VIDEO IN/OUT (TV, DVD, VCR1 and DSS/VCR2)

There are 4 composite video inputs and 2 composite video outputs. Connect VCR, DVD player, and other video components to the video input.

The output channels can be used to be connected to video recorder for making recordings.

④ S-VIDEO IN/OUT

There are 2 S-VIDEO inputs and one S-VIDEO output.
Connect VCR, DVD player, and other video components to the S-VIDEO input.
The output channel can be used to be connected to video recorder for making recordings.
S-VIDEO sources can be viewed through the S-VIDEO output, and composite sources can only be viewed through the composite output.

⑤ MONITOR OUT

There are 2 monitor outputs and each one includes both composite video and S-video configurations.

⑥ 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.

⑦ Preamp Outputs (L, R, SL, SR, SB, C)

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

⑧ 6.1 CHANNEL INPUT

By connecting a DVD Audio player, SACD multi channel player, or other component that has a multi channel port, you can playback the audio with 5.1 channel or 6.1 channel output.

⑨ Speaker outputs terminals

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

⑩ REMOTE CONT. IN/OUT terminals

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

⑪ DIGITAL INPUT (Dig.1 - 4) / OUTPUT (coaxial, optical)

These are the digital audio inputs and outputs. There are 2 digital inputs with coaxial jacks, 2 with optical jacks.
The inputs accept digital audio signals from a compact disc, LD, DVD, or other digital source component.
For digital output, there is 1 coaxial output and 1 optical output.
The digital outputs can be connected to MD recorders, CD recorders, DAT decks, or other similar components.

⑫ Power cable

Connect to AC power outlet.
SR4300 can be powered by 120 V AC only.

Caution:

- In order to avoid potential turn-off thumps, anything plugged in here should be powered up BEFORE the SR4300 is turned on.

⑬ AC OUTLETS

Connect the AC power cables of components such as a DVD and CD player to these outlets. SWITCHED and UNSWITCHED outlets are provided.
The one marked SWITCHED provides power only when the SR4300 is turned on and is useful for components which you use every time you play your system.
The one marked UNSWITCHED is always live as long as the SR4300 is plugged into a live outlet.
A component connected here may be left on permanently, or may be switched off with its own power switch.

Caution:

- In order to avoid potential turn-off thumps, anything plugged in here should be powered up before the SR4300 is turned on.
- The capacity of these AC outlets are 100W. Do not connect devices that consume electricity more than the capacity to these AC outlets. If total power consumption of connected devices exceeds the capacity, protection circuit shuts down the power supply.

REMOTE CONTROLE UNIT

OPERATION

The supplied remote control unit is a system remote control unit for Marantz AV components.

The **POWER** button , numeric buttons and control buttons are used in common across different input source components.

The input source controlled with the remote control unit changes when one of the input selector buttons is pressed.
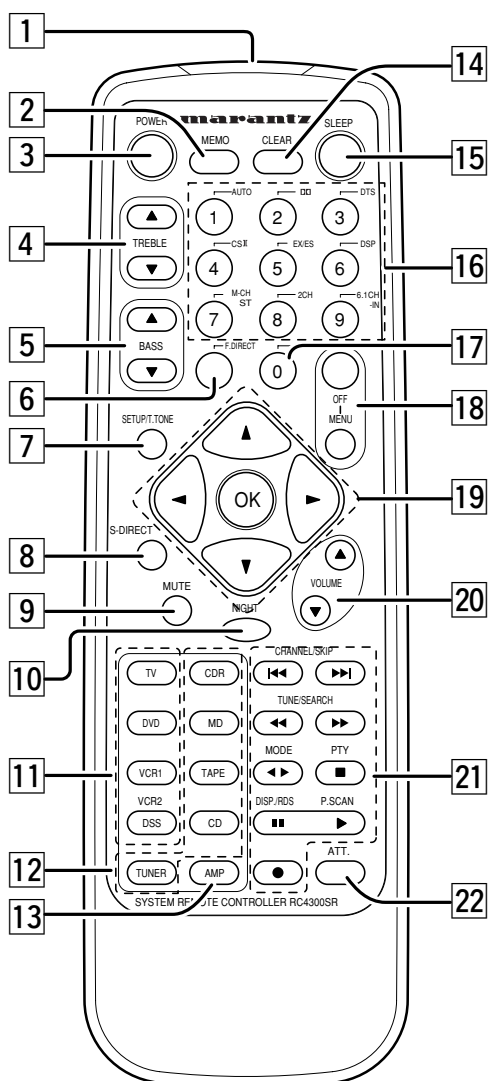
• Example: To select the DVD as the input source and play the DVD player.

Press the **DVD** button twice within 2 seconds.

The input selector of the SR4300 is switched to DVD and the remote control unit is set for control of the DVD player.

Press the ► button on the remote control unit.

FUNCTION AND OPERATION

1   Infrared window

Outputs and inputs an infrared control signals.

2   MEMO(Memory) button

Press this button to enter the tuner preset memory numbers and station names.

3   POWER button

Press to switch the power of the SR4300 ON or OFF after pressing the **AMP** button.

4   TREBLE ▲ (Up) / ▼ (Down) buttons

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

5   BASS ▲ (Up) / ▼ (Down) buttons

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

6   F.(Frequency) DIRECT button

Press this button to change tuner mode Frequency Direct Call.

7   SETUP / T.TONE button

Test tone function is used for adjusting the balance between the volume levels of speaker channels.

Press **AMP** button and press this button to call SPEAKER LEVEL setup menu.

Press the button again to stop the pink noise generation.

8   S- (Source) DIRECT button

When this button is pressed, the tone control circuit is bypassed as well as Bass Management.

9   MUTE button

Press this button decrease the sound temporarily .

Press this button again to return to the previous sound level.

10   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.

11   Input selector buttons/ FUNCTION

SELECTOR buttons for VIDEO component

12   Input selector buttons/ FUNCTION

SELECTOR buttons for AUDIO component

Press one of these buttons once or twice to select a particular source component. For example, to set the receiver to the DVD input, press the **DVD** button twice within 2 seconds.

13   AMP button

To select the surround mode of the SR4300, press this button previously.

14   CLEAR button

Press this button to cancel the station memory setting mode or preset scan tuning.

15   SLEEP (sleep timer) button

This button is used for setting the sleep timer. It can be operated the same way as the button in unit.

a Numeric buttons 1 to 9 / Surround mode buttons

Numeric buttons (1 - 9)
These buttons are used to enter figures in the selection of a tuner preset station and station name preset or to set select a CD track number, etc.
The functions of these buttons are dependent on the function button selected.

Surround mode buttons (when AMP mode is selected)
These buttons are also used to select the surround mode.

Note:
• The **M-CH ST** button is used to 6-stereo mode.

b 0 / A/D button

0 button
This button is used to enter the number "0"

A/D button (when AMP mode is selected)
This is used to switch between the analog and digital inputs.

c MENU button and MENU OFF button
MENU button is used to enter the menu functions. Use the menu functions to setup SR4300. MENU OFF button is used to return original display from menu functions.

d Cursor buttons (▲, ▼, ◄, ► , OK)
Use these button when operating the SETUP MENU functions.
◄: Moves the cursor left
►: Moves the cursor right
▲: Moves the cursor up
▼: Moves the cursor down
OK : Enters to the SETUP MENU or Confirms the setting

e MAIN VOLUME ▲ (Up) / ▼ (Down) buttons
Adjusts the overall sound level. The front, surround, center and subwoofer channel volumes controlled by these buttons simultaneously.

f CONTROL buttons
These buttons are used when operating the CD player, TAPE deck, etc. The function of these buttons are dependent on the function button selected.

g ATT (attenuate) button
When the input signal is too high and the voice distorts even by throttling the SR4300 VOLUME control, turn on this function. "ATT" is indicated when this function is activated.
The input level is reduced. Attenuation is invalid for use with the output signal of "REC OUT".

REMOTE CONTROL RANGE
The distance between the transmitter of the remote control unit and the IR SENSOR of the SR4300 should be less than about 5 meters. If the transmitter is pointed to a direction other than the IR SENSOR or if there is an obstacle between them, remote control may not be possible.

Remote-controllable range
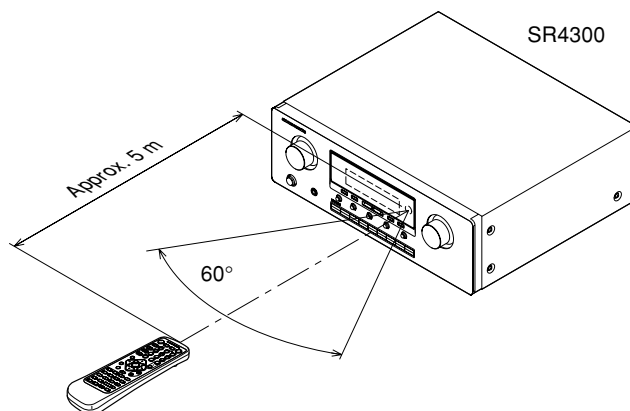
Remote control unit (RC4300SR)

LOADING BATTERIES
When you use RC4300SR for the first time, you have to install the batteries. The RC4300SR requires 2 AAA-batteries (2 x 1,5 V) to function.

Note
• Attached batteries are to check basic function of remote control unit.

1. Remove the back cover.
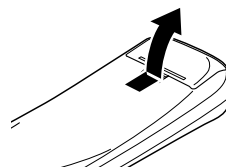
2. Insert the new batteries (AAA type) with correct (+) and (−) polarity.
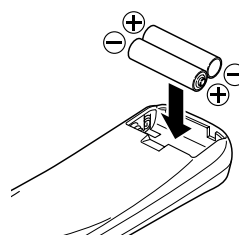
3. Close until it clicks.
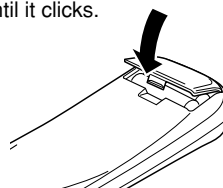
GENERAL INFROMATION OF RC4300SR TO SR4300

To control the SR4300 by your RC4300SR, you have to select the device AMP or TUNER by function selector button. Please refer as below for the deatails in AMP and TUNER mode.

AMP MODE
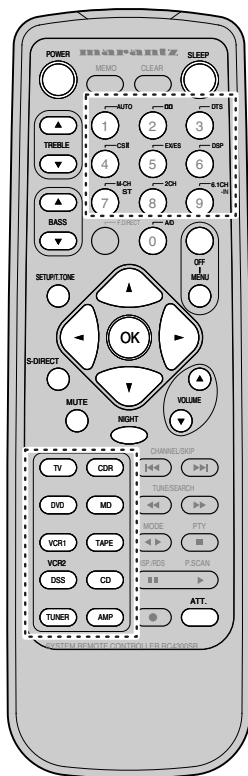
TUNER MODE
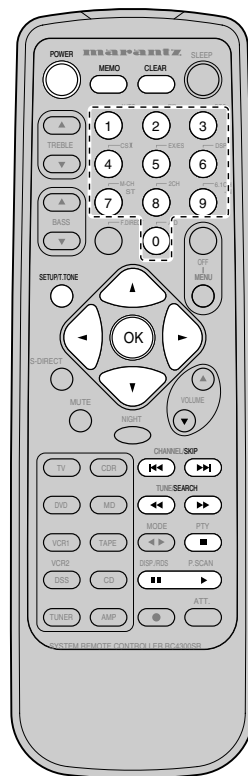
POWER	Turns the SR4300 on and off
SLEEP *	Sets the sleep timer function
TREBLE ▲▼ *	Adjusts the tone control of high frequency sound
BASS ▲▼ *	Adjusts the tone control of low frequency sound
Surround mode (1-8)	Selects the surround mode
6.1CH-IN (9)	Selects the 6.1CH IN
A/D (0)	Switches between the analog and digital inputs
MENU	Enters the SETUP MENU
MENU OFF	Exits from the SETUP MENU
SETUP/T.TONE	Enters the test tone mode for setting the Speaker Level Setup
Cursor	Moves the cursor for setting in SETUP MENU
OK	• Enters the SETUP MENU • Confirms the setting in SETUP MENU
S-DIRECT *	Selects the Source Direct mode
MUTE *	Decreases the sound temporarily
NIGHT *	Turns on or off NIGHT mode
VOL ▲▼ *	Adjusts the over all sound level
Function selector *	Selects a particular source component
ATT *	Reduces the input level

* These buttons are used to control SR4300 in any function mode.

MEMO	Enters the tuner preset memory numbers
CLEAR	Clears the inputting
0-9	Inputs the numeric
F.DIRECT	Selects the "Frequency direct input"
CHANNEL/SKIP	• Selects a preset station • Changes a PTY type (*)
TUNE/SEARCH	Tunes a station
MODE	Selects the auto stereo mode or mono mode
PTY	Displays the programme type information of the current station (*)
DISP./RDS	Selects the display mode in RDS (*)
P.SCAN	Starts preset scan
TUNER	Selects a frequency band

(*): European model only

11

CONNECTIONS

SPEAKER PLACEMENT

The ideal surround speaker system for this unit is 7-speaker systems, using front left and right speakers, a center speaker, surround left and right speakers, a surround back 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 center speaker is useful for playback of Dolby Digital Surround EX or DTS-ES. One of the benefits of both Dolby Digital (AC-3) 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.
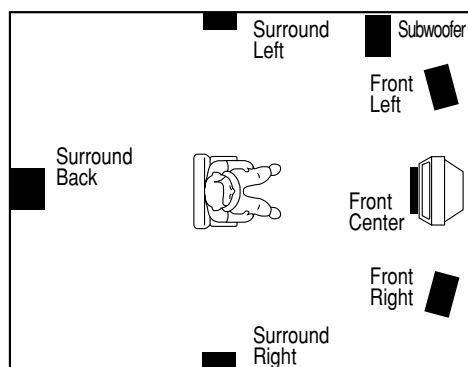
Front left and right speakers
We recommend to set the front L and R speakers with 45-60 degrees from the listening position.

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
Place the speakers right beside of the listening position or a little forward. Do not place the speakers backward of the listening position.

Surround back speaker
Place the speaker behind of the listening position.

Subwoofer
We recommend to use a sub-woofer to have maximum bass effect. Sub-woofer bears only low frequency range so you can place it anywhere 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 on the same height as well as possible.

Surround left and right speakers, and surround back speaker
Place the surround left, right and surround back speakers higher to your ears (2 Ft. - 3 Ft.(70cm – 1m)). Also place the speakers on the same height.
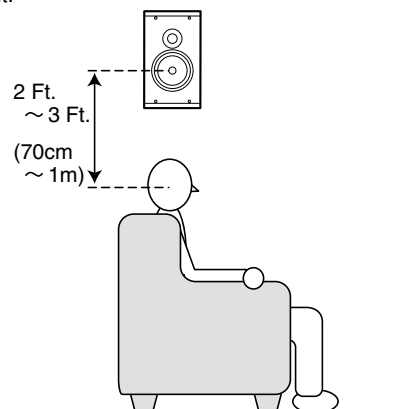
Note:
• Use magnetically-shielded speakers for front left, right and the center speakers when the speakers are installed near the TV and the TV is a monitor type.

CONNECTING SPEAKERS
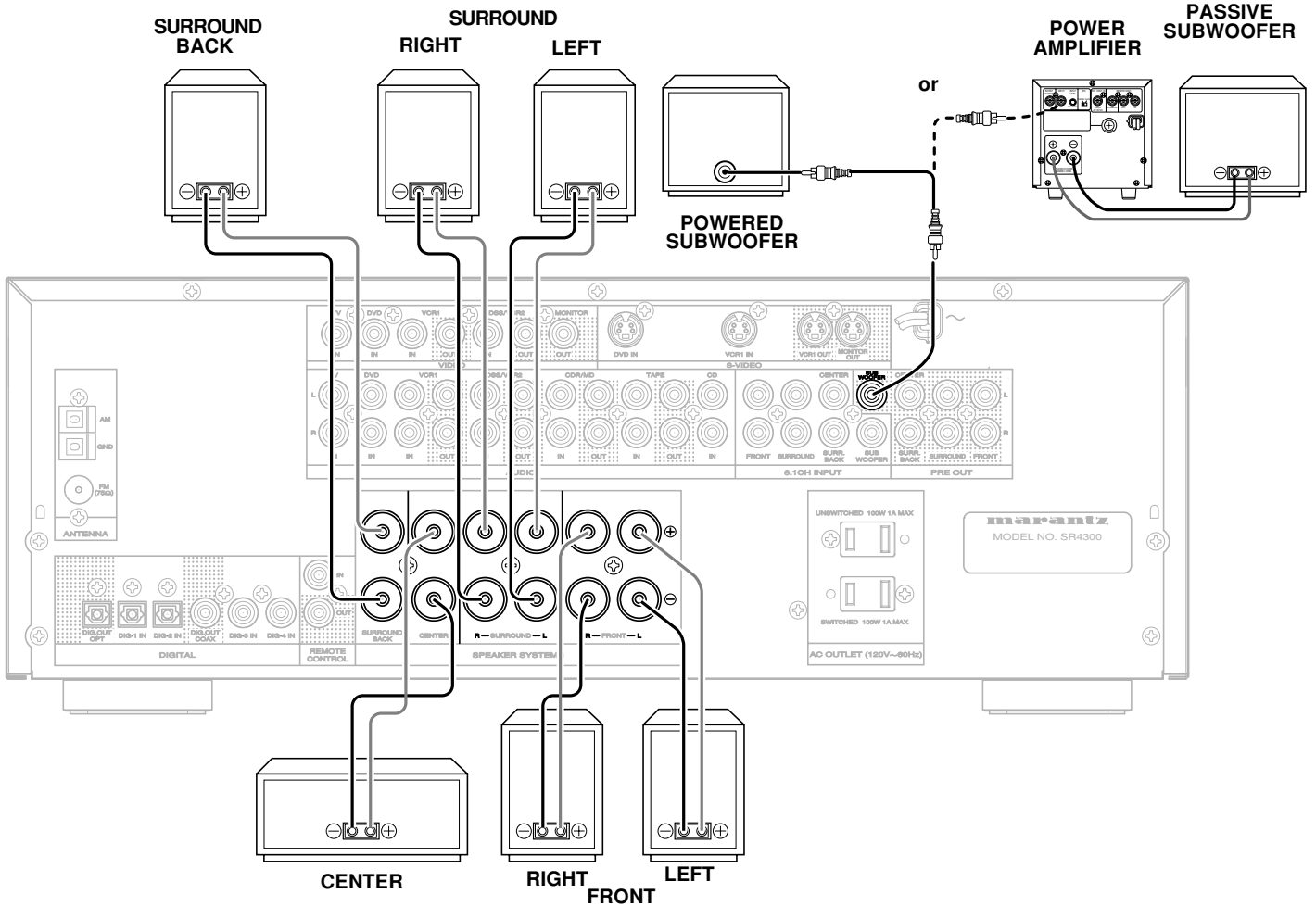
CONNECTING SPEAKER WIRE

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

1.
3/8 inch (10 mm)

2.

3.

4.

5.
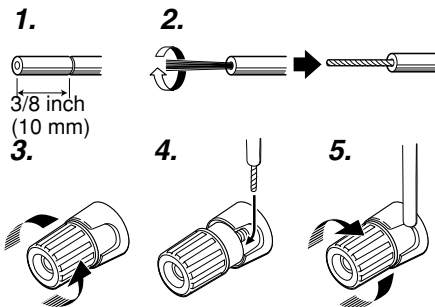
CONNECTING BANANA PLUG

Banana plug connections are also possible.
Tighten the knob by turning clockwise and then insert the banana plug.
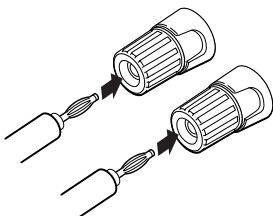
Cautions:

- Be sure to use speakers with the specified impedance 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 electric shocks.
- Do not connect more than one speaker cable to one speaker terminal. Doing so may damage this unit.
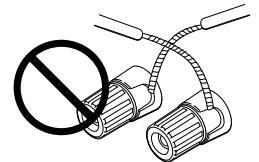
Note:

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

13

CONNECTING AUDIO COMPONENTS

CD RECORDER / MD DECK

CD PLAYER

TAPE DECK

ANALOG AUDIO

DIGITAL AUDIO
(COAXIAL)

DIGITAL AUDIO
(OPTICAL)
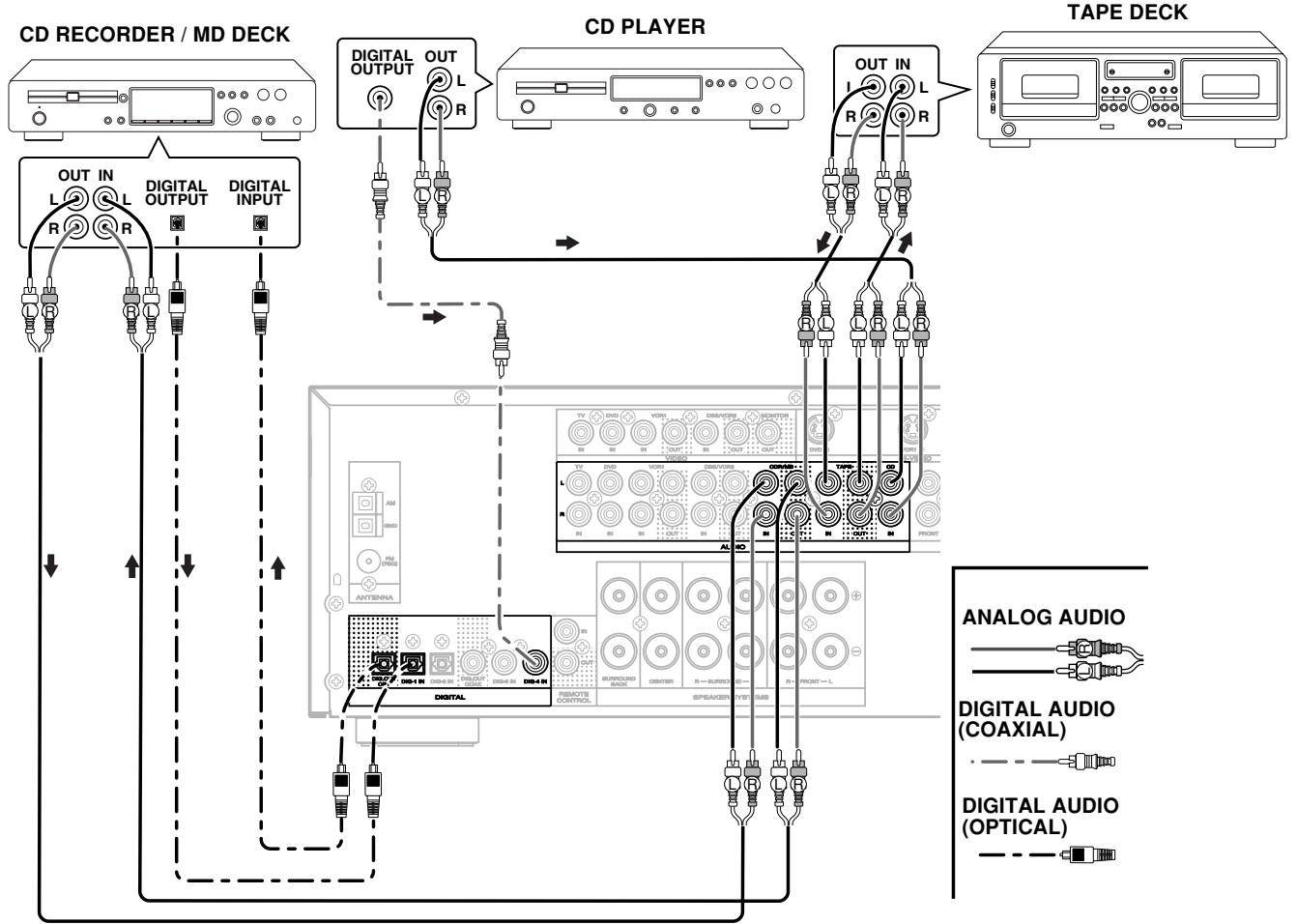
The output audio signal from the TAPE OUT jack and the CD-R/MD OUT jack is the sound source currently selected.

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 with this unit.

• Do not bind audio/video connection cables with power cords and speaker cables will result in generating hum or other noise.

CONNECTING DIGITAL AUDIO COMPONENTS

• There are four digital inputs, two coaxial jacks and two optical jacks, 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 are one digital output with coaxial jack and one with optical jack on the rear panel. These jacks can be connected to CD recorder, MD deck.

• Setup the digital audio format of DVD player, or other digital source component. Refer to the instructions for each component to be connected to digital input jacks.

• Use fiber optical cables(optical) for DIG-1,2 input jacks. Use 75 ohms coaxial cables(for digital audio or video) for DIG-3,4 input jacks.

• You can designate the input for each digital input/output jacks according to your component. See page 19.

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.

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CONNECTING VIDEO COMPONENTS

MONITOR

SATELLITE TUNER

DVD PLAYER

DIGITAL OUT AUDIO OUT VIDEO OUT L R VIDEO OUT

DIGITAL OUT AUDIO OUT VIDEO OUT S-VIDEO OUT L R

VIDEO IN S-VIDEO IN CVBS

VCR

AUDIO OUT AUDIO IN VIDEO OUT IN S-VIDEO OUT IN L R L R

TV

AUDIO OUT VIDEO OUT L R

VIDEO

S-VIDEO

ANALOG AUDIO

DIGITAL AUDIO (COAXIAL)

DIGITAL AUDIO (OPTICAL)
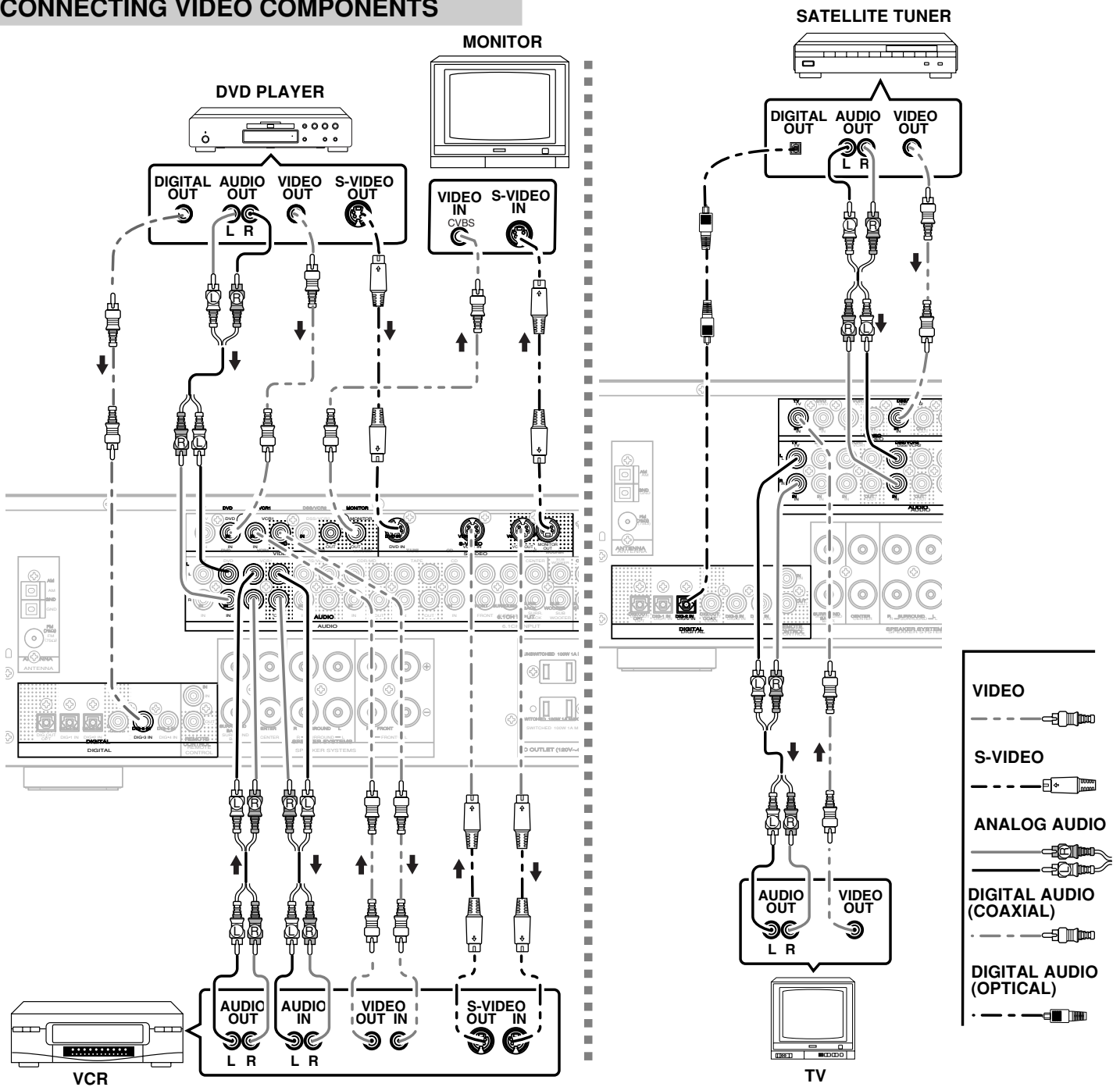
VIDEO, S-VIDEO JACKS

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

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

S-VIDEO jack
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 jack on your video component to the S-VIDEO input jack on this unit.

Notes:
- 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 input and output of video signal properly.
- Each type of video jack works independently. Signals input to the VIDEO(composite) and S-VIDEO jacks are output to the corresponding VIDEO(composite) and S-VIDEO jacks, respectively.
- You may need to setup the digital audio output format of your DVD player, or other digital source component. Refer to the instructions of the each component connected to the digital input jacks.
- There is no Dolby Digital RF input jack. Please use an external RF demodulator with Dolby Digital decoder to connect a video disc player with the Dolby Digital RF output jack to the digital input jack on this unit.

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ADVANCED CONNECTING

DVD AUDIO PLAYER
or
SACD MULTI CHANNEL PLAYER

POWER AMPLIFER
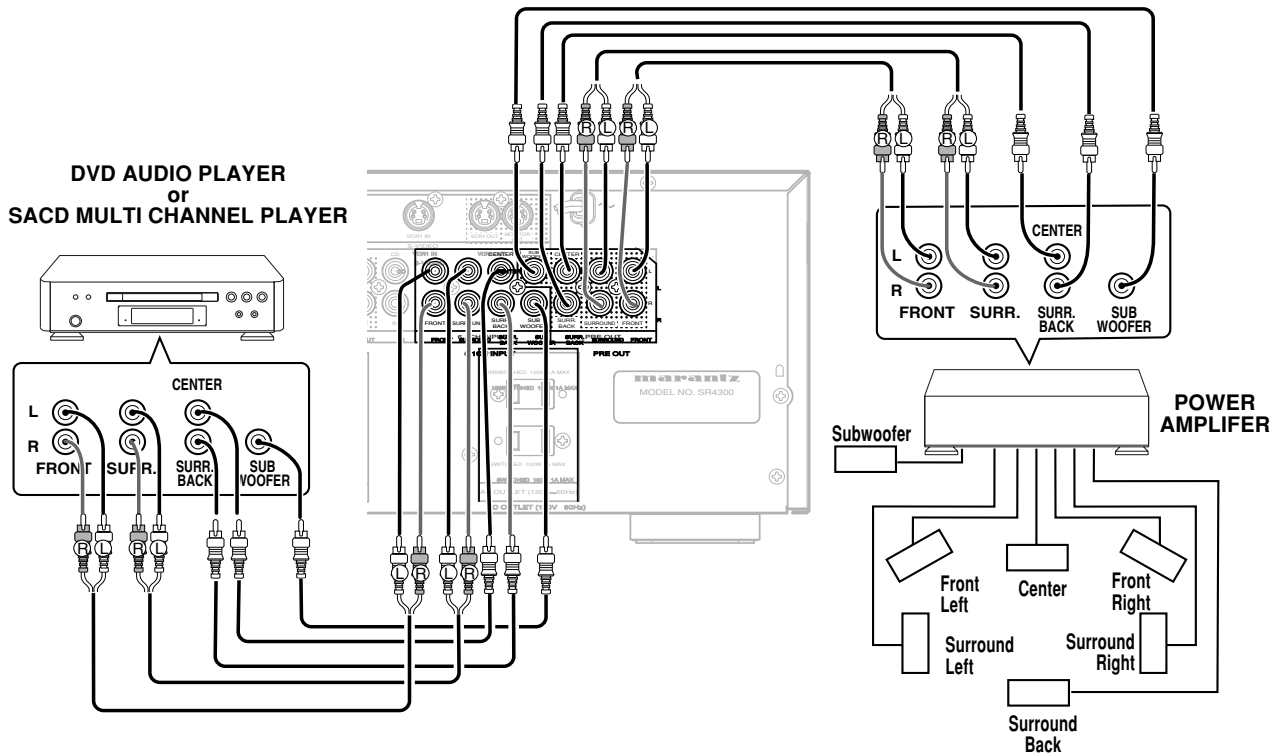
CONNECTING MULTI CHANNEL AUDIO SOURCE

The 6.1CH INPUT jacks are for multi channel audio source such as SACD multi channel player, DVD audio player or external decoder.
If you use these jacks, switch on 6.1CH INPUT and setup 6.1CH INPUT level by using SETUP MAIN MENU. See page 24.

CONNECTING EXTERNAL POWER AMPLIFIER

The PREOUT jacks are for connecting external power amplifiers , you can have better sound quality.
Be sure to connect each speaker to the corresponding external power amplifier.

CONNECTING REMOTE CONTROL JACKS
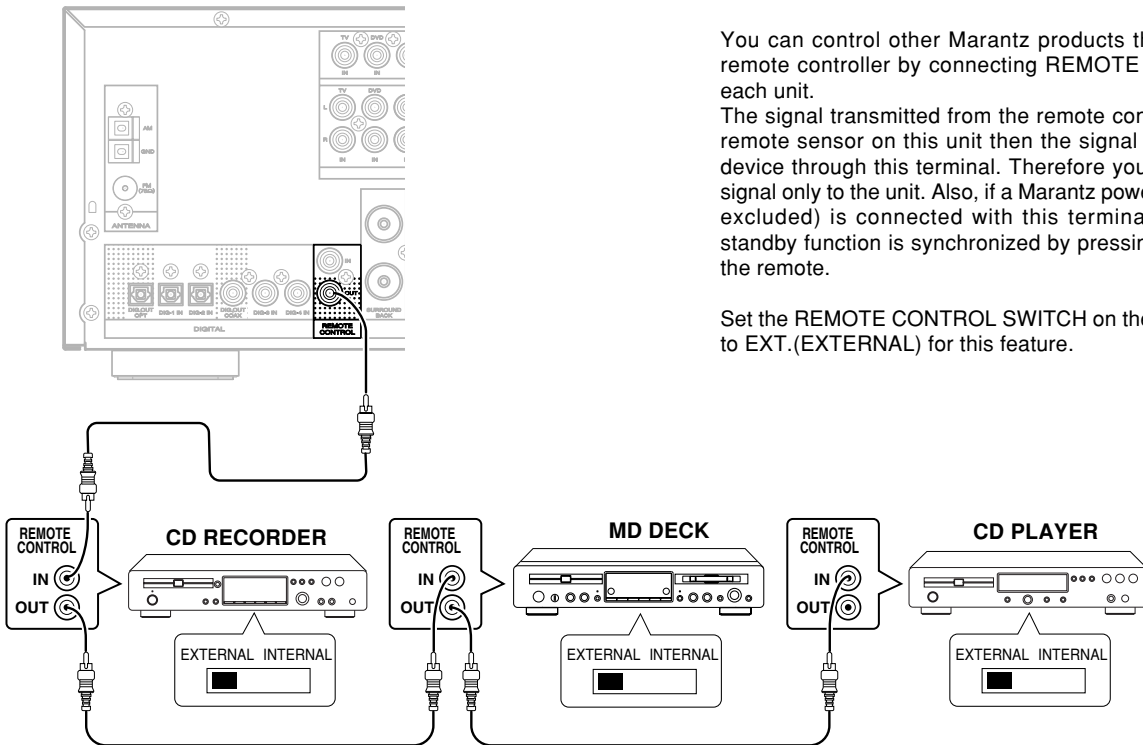
You can control other Marantz products through this unit with the remote controller by connecting REMOTE CONTROL terminals on each unit.
The signal transmitted from the remote controller is received by the remote sensor on this unit then the signal is sent to the connected device through this terminal. Therefore you need to aim the remote signal only to the unit. Also, if a Marantz power amplifier (some models excluded) is connected with this terminal, the power amplifier's standby function is synchronized by pressing the **POWER** button on the remote.

Set the REMOTE CONTROL SWITCH on the units other than this unit to EXT.(EXTERNAL) for this feature.

CD RECORDER

MD DECK

CD PLAYER

CONNECTING THE ANTENNA TERMINALS

FM ANTENNA **FM EXTERNAL ANTENNA** **AM LOOP ANTENNA** **AM EXTERNAL ANTENNA**
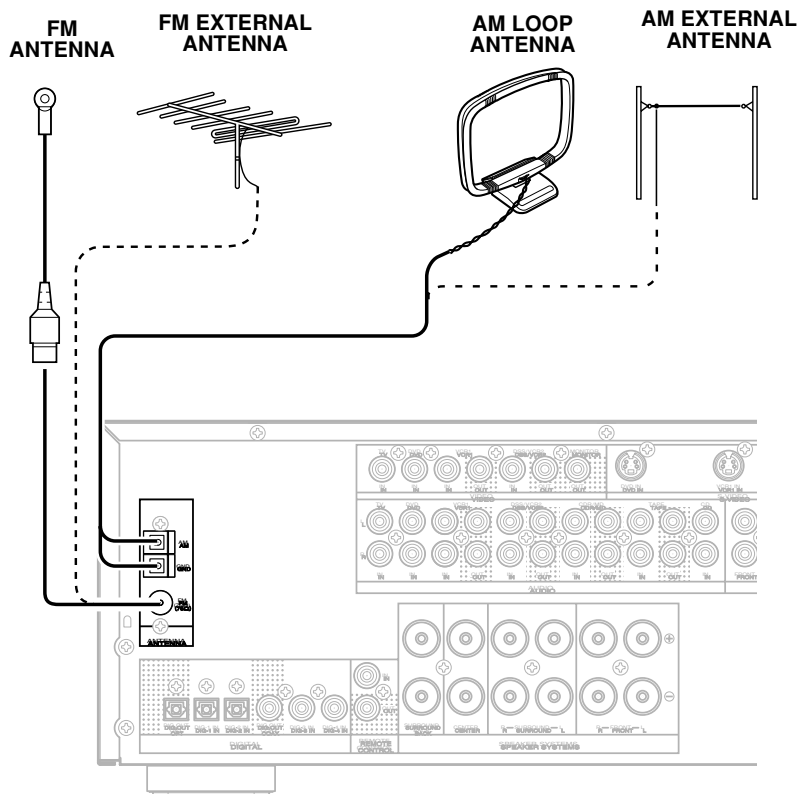
ASSEMBLING THE AM LOOP ANTENNA

1. Release the vinyl tie and take out the connection line.
2. Bend in the reverse direction.
3. Inserting into the hole to attach the loop antenna to the antenna stand.
4. With the antenna on top any stable surface.

1.   **2.**

3.   **4.**
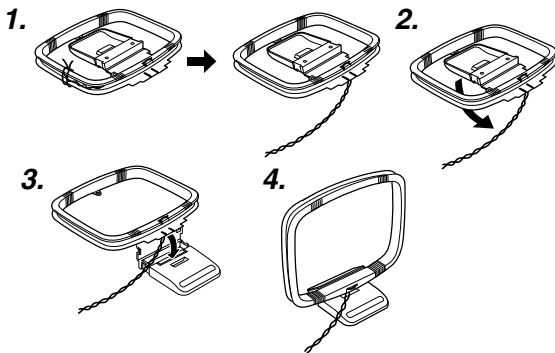
CONNECTING THE SUPPLIED ANTENNAS

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 pin 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 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 bared 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.

SETUP

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

SETUP MENU SYSTEM

The SR4300 incorporates an menu on the front display, which makes various operations possible by using the cursor (▲, ▼, ◄ , ►) and **OK** buttons on the remote control.

MENU STRUCTURE

Main Menu

1. INPUT setup

CD	
TAPE	D1 AUTO / D2 AUTO /D3AUTO / D4 AUTO (DigitalAUTO mode)
CD-R (CD-R/MD)	
TV	
DSS (DSS/VCR2)	DIG.1 / DIG.2 / DIG3. / DIG4(Digital Fixed mode)
DVD	
VCR1	ANALOG

2. SPEAKER setup

Speaker Size Setup

SUBW (Subwoofer)	YES / NONE
L&R (Front Left&Right)	SMALL / LARGE
CENTER	SMALL / LARGE / NONE
SL&SR (Surround Left&Right)	SMALL / LARGE / NONE
SURR.B (Surround Back)	YES / NONE

Speaker Distance Setup

L&R (Front Left&Right)	0.3m (1f) ←→ 9.0m (30f)
C (Center)	0.3m (1f) ←→ 9.0m (30f)
SLR (Surround Left&Right)	0.3m (1f) ←→ 9.0m (30f)
SW(Subwoofer)	0.3m (1f) ←→ 9.0m (30f)
SB (Surround Back)	0.3m (1f) ←→ 9.0m (30f)

Speaker Level Setup

T.MODE(Test Tone Mode)	MANU (Manual) / AUTO
L (Front Left)	-10dB ←→ +10dB
C (Center)	-10dB ←→ +10dB
R (Front Right)	-10dB ←→ +10dB
SR (Surround Right)	-10dB ←→ +10dB
SB (Surround Back)	-10dB ←→ +10dB
SL (Surround Left)	-10dB ←→ +10dB
SW (Subwoofer)	-15dB ←→ +10dB

3. PREFERENCE setup

BASSMIX	BOTH / MIX
LFE	0dB / -10dB / OFF

4. PROLOGIC II setup

PANORAMA	OFF / ON
DIMENSION	0 ←→ 6
C.WIDTH (Center width)	0 ←→ 7

5. CS II setup

TRUBASS	0 ←→ 6
SRS DIALOG	0 ←→ 6

6. 6.1CH IN setup

L (Front Left)	-10dB ←→ +10dB
C (Center)	-10dB ←→ +10dB
R (Front Right)	-10dB ←→ +10dB
SR (Surround Right)	-10dB ←→ +10dB
SB (Surround Back)	-10dB ←→ +10dB
SL (Surround Left)	-10dB ←→ +10dB
SW (Subwoofer)	-15dB ←→ +10dB

7. SURROUND setup

Surround Mode	-10dB ←→ +10dB
C (Center) LEV	-10dB ←→ +10dB
SL (Surround Left) LEV	-10dB ←→ +10dB
SR (Surround Right) LEV	-10dB ←→ +10dB
SB (Surround Back) LEV	-10dB ←→ +10dB
SW (Subwoofer) LEV	-15dB ←→ +10dB

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ENTER THE DESIRED MENU ITEM OF THE SETUP MENU

EXIT

3.

4.

5.

2.
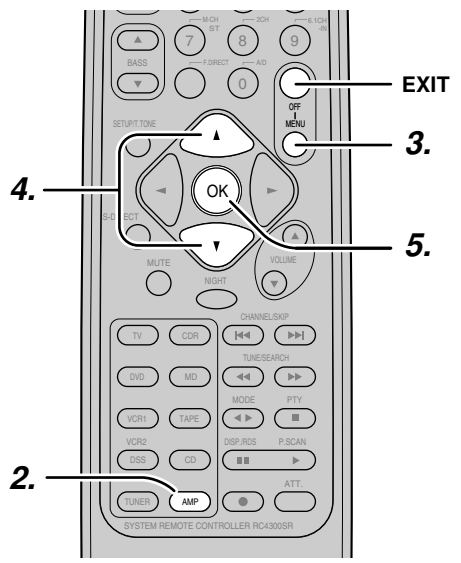
1. Turn on this unit.
2. Press the **AMP** button to set the amp mode.
3. Press the **MENU** button or the **OK** button to enter the SETUP MENU.
4. Press the ▲ or ▼ cursor button to select the MAIN MENU item.
5. Press the **OK** button or the **MENU** button to enter the desired menu item.

After finishing all setup, press the **MENU OFF** button to exit the SETUP MENU.

1. INPUT SETUP (ASSIGNABLE DIGITAL INPUT)

Four digital inputs can be assigned as the desired source.
Use this menu to select the digital input jack to be assigned to the input source.
The Input Setup consists of 9 items, which are as below.

• D1AUTO to D4AUTO : Digital AUTO mode
If the input signal from the selected source is digital signal, this unit chooses a digital input automatically.

• DIG.1 to DIG.4 : Digital FIXED mode
The SR4300 chooses a digital input regardless of a input signal from the selected source.

• ANA : Analog mode

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

4. 5.

1. 3. 5.

2. 5.
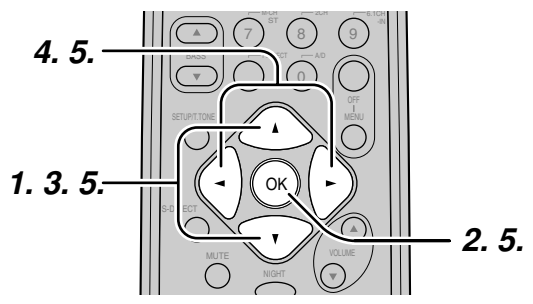
1. Select "1.INPUT" in SETUP MAIN MENU with the ▲ or ▼ cursor button.
2. Press the **OK** button to enter the menu.
3. Press the ▲ or ▼ cursor button to select the input source.
4. Press ◄ or ► cursor button to select the input function.
   Select "DxAUTO", "DIG.x" or "ANA" for input sources.
5. If you finish these setup, press the ▲ or ▼ cursor button to select "TO MAIN MENU" then press the **OK** button to return the SETUP MAIN MENU.
   Or press the ◄ or ► cursor button to select "EXIT" then press the **OK** button to exit the SETUP MENU.

Notes:
   • 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 "**Dx-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 DIGITAL.
   • Same digital input function cannot be set. In this case, the previous setting is set to ANALOG. Same digital input number cannot be set in Digital AUTO mode and Digital Fixed mode. For example, D1AUTO and DIG.1 are not set at same time.

2. SPEAKER SETUP

After you have installed the SR4300, connected all the components, and determined the speaker layout, 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:

SPEAKER 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. 100Hz will be output from the subwoofer.
If the Subwoofer is set to "NONE" and the front speakers are set to "Large," then the sound may be output from both the left and right speakers.

4. 6.

1. 3. 5.

2. 6.

1. Select "2.SPEAKER" in SETUP MAIN MENU with ▲ or ▼ cursor button,
2. Press the **OK** button to enter the menu. The first sub-menu item is "Speaker Size" setup.
3. Press ▲ or ▼ cursor button to select the each speaker.
4. Press ◄ or ► cursor button to select the setting of size to each speaker.
5. If you finish these setup, press the ▲ or ▼ cursor button to select "NEXT".
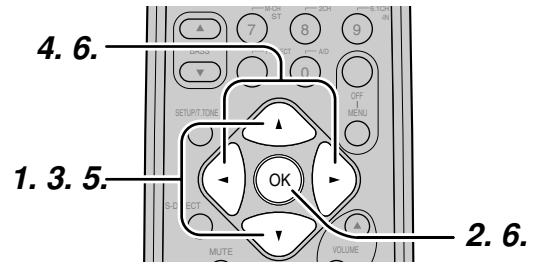6. Press the **OK** button to enter the next "Speaker Distance" setup.
Or press the ◄ or ► cursor button to select "EXIT" then press the **OK** button to exit the SETUP MENU.
Or press the ◄ or ► cursor button to select "TO MAIN MENU" then press the **OK** button to return the SETUP MAIN MENU.

MENU STRUCTURE of Speaker Size setup

Speaker	Size	
2.SPEAKER →		
Speaker Size setup		
SUBW →	**YES**	Select when a subwoofer is connected.
	NONE	Select when a subwoofer is not connected.
L & R →	**SMALL**	Select if the front speakers are small sized.
	LARGE	Select if the front speakers are large sized.
CENTER →	**SMALL**	Select if the center speaker is small sized.
	LARGE	Select if the center speaker is large sized.
	NONE	Select if no center speaker is connected.
SL & SR →	**SMALL**	Select if the surround left and right speakers are small sized.
	LARGE	Select if the surround left and right speakers are large sized.
	NONE	Select if no surround left and right speakers are connected.
SURR.B →	**YES**	Select when a surround back speaker is connected.
	NONE	Select when a surround back speaker is not connected.

NEXT → EXIT ↔ TO MAIN MENU

Speaker Distance setup | exit SETUP MENU | MAIN MENU

SPEAKER 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.
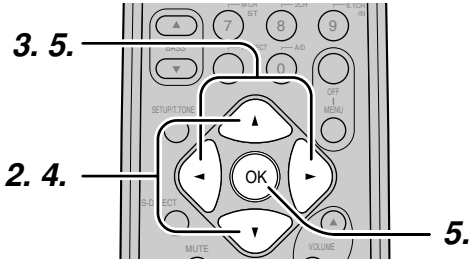
This is important for the timing of the acoustics to create the proper sound space that the SR4300 and today's sound systems are able to produce.

Note that the speakers that you selected "**No**" or "**None**" for in the Speaker Config sub-menu will not appear here.

3. 5.
2. 4.
5.

1. Enter to the "Speaker Distance setup" from the previous "Speaker Size setup".

2. Press ▲ or ▼ cursor button to select the each speaker.

3. Press ◄ or ► cursor button to set the distance from your listening position for each speaker.

4. After finishing the Speaker Distance setup, press the ▲ or ▼ cursor button to select "NEXT".

5. Press the **OK** button to enter the next "Speaker Level" setup.
Or press the ◄ or ► cursor button to select "EXIT" then press the **OK** button to exit the SETUP MENU.
Or press the ◄ or ► cursor button to select "TO MAIN MENU" then press the **OK** button to return the SETUP MAIN MENU.
Or press the ◄ or ► cursor button to select "RETURN" then press the **OK** button to return the previous "Speaker Distance" setup.

L&R : Set the distance from the front left and right speakers to your normal listening position between 1 and 30 feet in 1.0 foot interval (0.3 to 9 meters in 0.3-meter intervals).

C : Set the distance from the center speaker to your normal listening position between 1 and 30 feet in 1.0 foot interval
(0.3 to 9 meters in 0.3-meter intervals).

SLR: Set the distance from the surround left and right speaker to your normal listening position between 1 and 30 feet in 1.0 foot interval (0.3 to 9-meter intervals).

SW : Set the distance from the subwoofer to your normal listening position between 1 and 30 feet in 1.0-foot intervals
(0.3 to 9 meters in 0.3-meter intervals).

SB: Set the distance from a surround back speaker to your normal listening position between 1 and 30 feet in 1.0-foot intervals (0.3 to 9 meters in 0.3-meter intervals).

Note
• Speakers that you selected "No" or "None" for in the Speaker Size menu will not appear.

MENU STRUCTURE of Speaker Distance setup
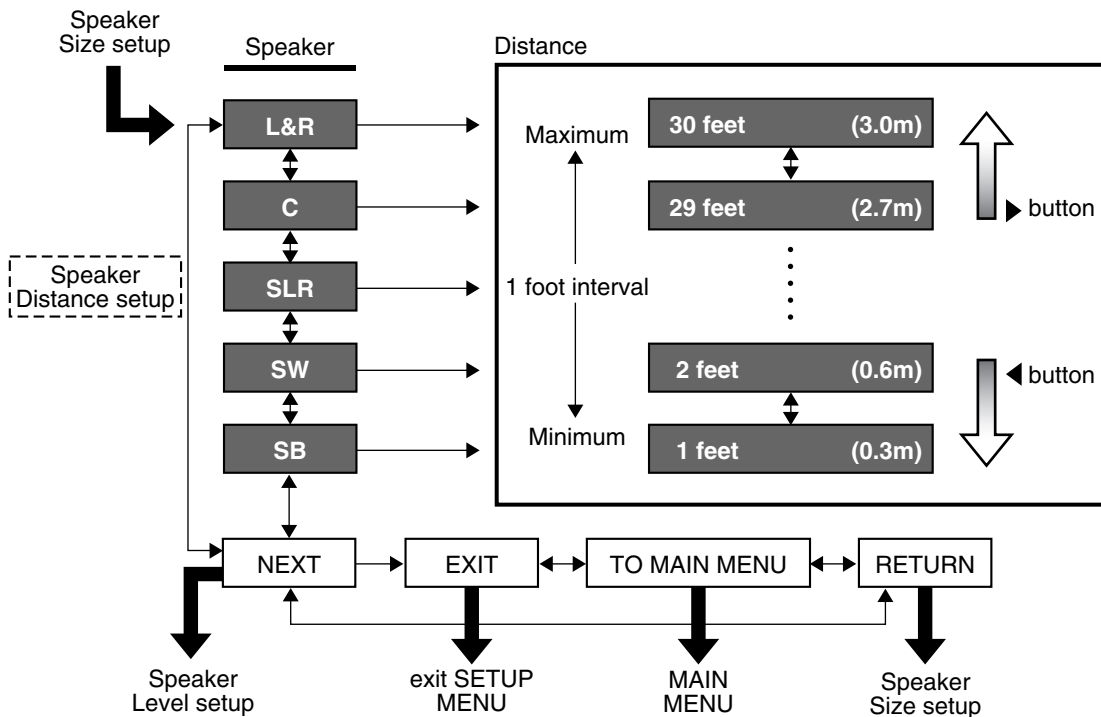
SPEAKERS LEVEL

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

Note:
  • The speaker level settings is not available in 6.1channel input mode and S-Direct mode.

TEST MODE : Selects "**MANU** (manual)" or "**AUTO**" for generating mode of test tone ◄ or ► cursor button.

If you select "**AUTO**" by pressing the ▼ button, the test tone will be cycled through in a circular pattern which is L (Left) →C (Center) →R (Right) →SR (Surround Right) →SB (Surround Back) →SL (Surround Left) →SW (Subwoofer →L →.. increments of 2 seconds for each channel. Using the ◄ and ► cursor buttons, adjust the volume level of the noise from the speaker so that it is the same level for all speaker.

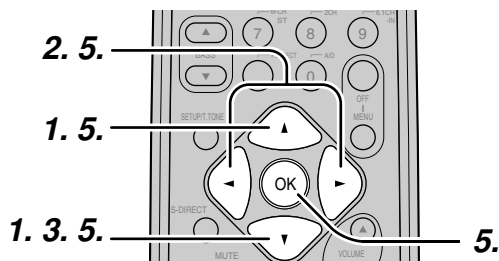When you select "TO MAIN MENU" by pressing the **OK** button, you can return the SETUP MAIN MENU by pressing the **OK** button . Or press the ▲ or ▼ cursor button to select "EXIT" then press the **OK** button to exit the SETUP MENU.
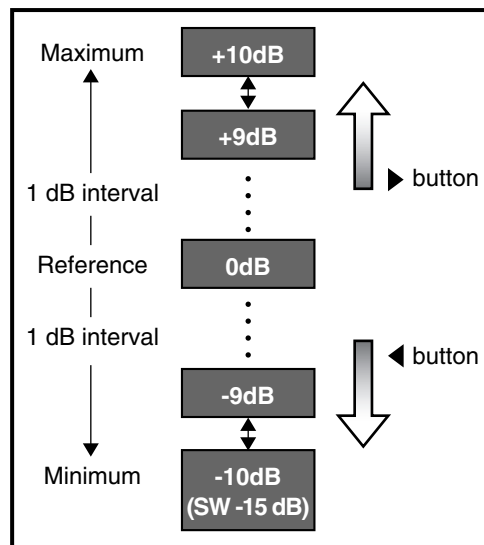
Or press the ◄ or ► cursor button to select "RETURN" then press the **OK** button to return the previous "SPEAKER DISTANCE" setup.

If you select "**MANU**", adjust the output level of each speaker as follow.

2. 5.
1. 5.
1. 3. 5.
5.

1. When you select "MANUAL" in T.MODE menu by pressing the ▲ or ▼ button, this unit will emit a pink noise from the front left speaker. At this time, adjust the desired level of the master volume. Remember the level of this noise and then press the ▼ button. This unit will emit the pink noise from the center speaker.

2. 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 (Note that this can be adjusted to any level between −10 and +10 dB in 1dB intervals).

3. Press the ▼ cursor button again. This 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.

5. When you select "TO MAIN MENU" by pressing the **OK** button, you can return the SETUP MAIN MENU by pressing the **OK** button . Or press the ▲ or ▼ cursor button to select "EXIT" then press the **OK** button to exit the SETUP MENU.
Or press the ◄ or ► button to select "RETURN" then press the **OK** button to return the previous "SPEAKER DISTANCE" setup.

Notes:
  • Speakers that you selected "None" for in the Speaker Size Setup menu will not appear.
  • The setup level for each channel is memorized for reproduction in all surround mode.
  • To adjust the speaker levels for 6.1-channel input sources, you will need to use the 6.1CH Level Input setup menu.

MENU STRUCTURE of Speaker Level setup
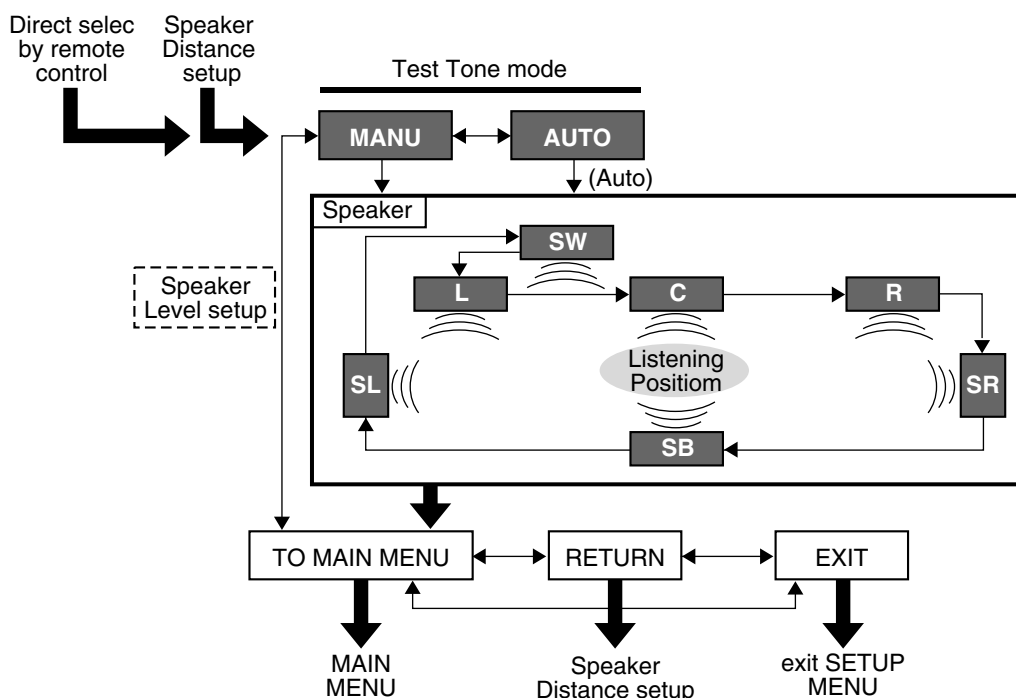
3. PREFERENCE
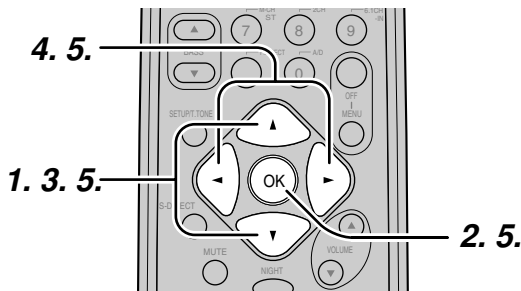
1. Select "3. PREFERENCE" in SETUP MAIN MENU with ▲ or ▼ cursor button.
2. Press the **OK** button.
3. Press ▲ or ▼ cursor button to select a desired item.
4. Press ◄ or ► cursor button to adjust.
5. When you select "TO MAIN MENU" by pressing the ▲ or ▼ button, you can return the SETUP MAIN MENU by pressing the **OK** button .
   Or press the ◄ or ► cursor button to select "EXIT" then press the **OK** button to exit the SETUP MENU.

BASS MIX
• The bass mix setting is only valid when "LARGE" is set for the front speakers and "YES" is set for the subwoofer at stereo playback .
• When the "BOTH" is selected, the low frequency signal range of "LARGE" are produced simultaneously from those channels and the subwoofer channel.

 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.
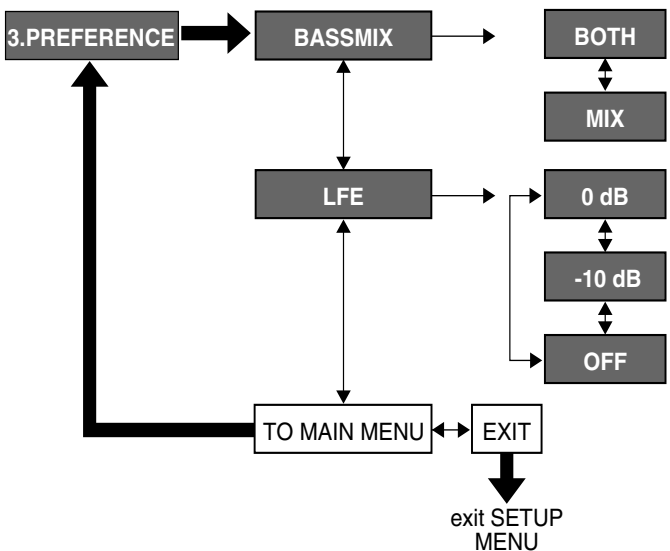
• Selection of the "MIX" will play the low frequency signal range of the channel selected with "LARGE" from that channel only.

  Therefore, the low frequency signal range that are played from the subwoofer channel are only the low frequency signal range of LFE (only during Dolby Digital or DTS signal playback) and the channel specified as "SMALL" in the setup menu.

LFE
• Select the output level of the LFE signal included in the Dolby Digital signal or the DTS signal.
  Select 0dB, -10 dB or OFF with Left or Right cursor button.

4. PL Ⅱ (PRO LOGIC Ⅱ)

In this mode, the SR4300 includes three controls to fine-tune the sound-field as follow.
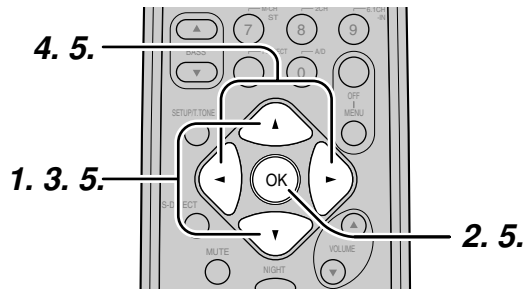
1. Select "4.PRO LOGIC Ⅱ" in SETUP MAIN MENU with ▲ or ▼ cursor button.
2. Press the **OK** button to enter the menu.
3. Press ▲ or ▼ cursor button to select a desired item.
4. Press ◄ or ► cursor button to select the mode or set the level.
5. When you select "TO MAIN MENU" by pressing the ▲ or ▼ button, you can return the SETUP MAIN MENU by pressing the **OK** button .
   Or press the ◄ or ► cursor button to select "EXIT" then press the **OK** button to exit the SETUP MENU.

PANORAMA: Select the Panorama mode On or Off with ◄ or ► cursor button.
Panorama wraps the sound of the front left and right speakers around you for an exciting perspective.

DIMENSION: Set the Dimension level between 0 and 6 level in 1 level interval with ◄ or ► cursor button.
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 recordings.

C WIDTH: Set the Center width level between 0 and 7 level in 1 level interval with ◄ or ► cursor button.
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 of the front image.
If "**None**" was selected for the Center speaker setting in the Speaker size, then this setting will not appear.

Note:
• When Center speaker is set "None", then C.WIDTH is set "7". (The display appears "C.WIDTH = ✱✱✱".)

MENU STRUCTURE of PREFERENCE setup

MENU STRUCTURE of PROLOGIC II setup

5. CS II (CIRCLE SURROUND II)

4. 5.

1. 3. 5.

2. 5.

1. Select "5. CS II" in SETUP MAIN MENU with ▲ or ▼ cursor button.
2. Press the **OK** button to enter this menu.
3. Press ▲ or ▼ cursor button to select desired item.
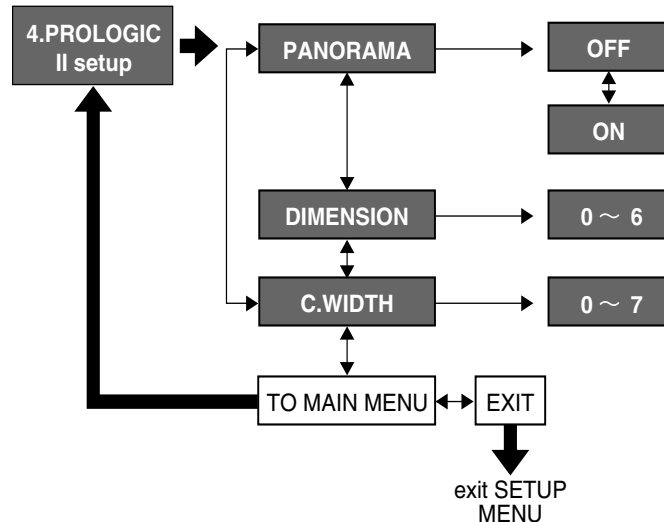**4.** Press ◄ or ► cursor button to set the level.
5. When you select "TO MAIN MENU" by pressing the ▲ or ▼ button, you can return the SETUP MAIN MENU by pressing the **OK** button .
Or press the ◄ or ► cursor button to select "EXIT" then press the **OK** button to exit the SETUP MENU.

TRUBASS: Set the TRUBASS level between 0 and 6 level in 1 level interval with ◄ or ► cursor button.
TRUBASS produced by the speakers to be 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 level in 1 level interval with ◄ or ► cursor button.
This can be popped out of the surround audio effects allowing the listener to easily discern what the actors say.
If "**NONE**" was selected for the Center speaker setting in the Speaker size, then this setting will not appear.

MENU STRUCTURE of CS II setup

6. 6.1 CH INPUT LEVEL

This sub-menu is to adjust the speaker levels for 6.1-channel input sources.
Here you will adjust the volume for each channel so that they are all heard by the listener at the same level.

4. 5.

1. 3. 5.

2. 5.

1. Select "6. 6.1 CH IN" in SETUP MAIN MENU with ▲ or ▼ cursor button.
2. Press the **OK** button to enter this menu.
3. Press ▲ or ▼ cursor button to select desired channel.
4. Using the ◄ or ► cursor button, adjust the volume level of each channel.

5. When you select "TO MAIN MENU" by pressing the ▲ or ▼ button, you can return the SETUP MAIN MENU by pressing the **OK** button .
Or press the ◄ or ► cursor button to select "EXIT" then press the **OK** button to exit the SETUP MENU.

Note:
• The condition of these setup will be memorized to 6.1CH INPUT source.

MENU STRUCTURE of 6.1CH IN setup

7. SURROUND

1. Select "7. SURROUND" in SETUP MAIN MENU with ▲ or ▼ cursor button.
2. Press the **OK** button.
3. To select a desired item, press ▲ or ▼ cursor button.
4. Using the ◄ or ► cursor button to select the mode or adjust the volume level of each speaker.
5. When you select "TO MAIN MENU" by pressing the ▲ or ▼ button, you can return the SETUP MAIN MENU by pressing the **OK** button .

   Or press the ◄ or ► cursor button to select "EXIT" then press the **OK** button to exit the SETUP MENU.

SURR-MODE : Select the desired surround mode with ◄ or ► cursor button.

SURR. L/R : Adjust the volume level of the surround left/right speaker between -10 dB and +10 dB in 1 level interval with ◄ or ► cursor button.

• If "None" was selected for the Surround L/R speaker setting in the Speaker size, then this setting will not appear.

SURR. BACK : Adjust the volume level of the surround back speaker between -10 dB and +10 dB in 1 level interval with ◄ or ► cursor button.

• If "None" was selected for the Surround back speakers setting in the Speaker size, then this setting will not appear.

CENTER : Adjust the volume level of the center speaker between -10 dB and +10 dB in 1 level interval with ◄ or ► cursor button.

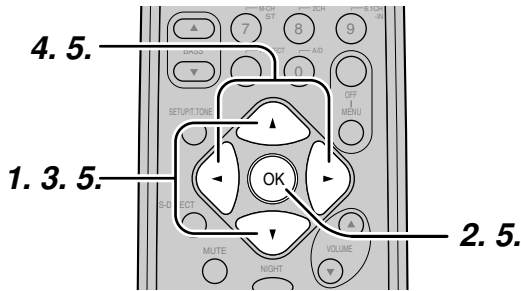• If "None" was selected for the Center speaker setting in the Speaker size, then this setting will not appear.

SUB W : Adjust the volume level of the subwoofer speaker between -15 dB and +10 dB in 1 level interval with ◄ or ► cursor button.

• If "None" was selected for the Subwoofer speaker setting in the Speaker size, then this setting will not appear.

When you select "TO MAIN MENU" by pressing the ▲ or ▼ button, you can return the SETUP MAIN MENU by pressing the **OK** button.

Note:

• SURR.L/R, SURR. BACK, CENTER and SUB W volume level are synchronized with SETUP MAIN MENU 2-3 Speaker Level.
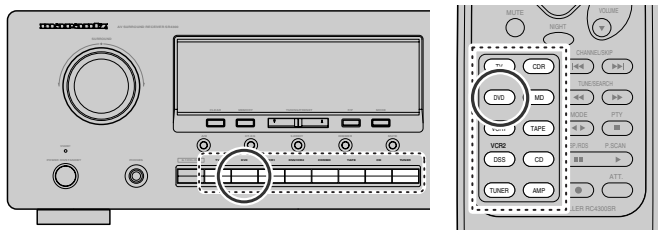
MENU STRUCTURE of SURROUND setup

MODE / Speaker
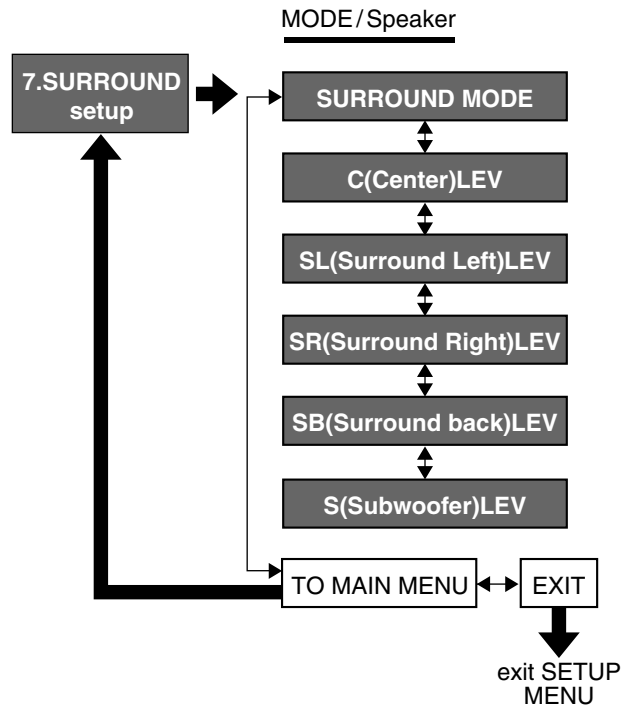
BASIC OPERATION (PLAY BACK)

SELECTING AN INPUT SOURCE.

Before you can listen to any input media, you must first select the input source at the SR4300.

E.G. : DVD

To select DVD, simply press the **DVD** button on the front panel or press **DVD** button on the remote.
After you have selected DVD, simply turn on the DVD player and play the DVD.

- The input name will appear in the display on the front-panel.
- As the input is changed, the SR4300 will automatically switch to the digital input, surround mode, attenuation, and night mode status that were entered during the configuration process for that source.
- When an audio source is selected, the last video input used remains routed to the **VCR1 & DSS**/**VCR2** Outputs and **Monitor** Outputs. 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 Outputs** jack and will be viewable on a TV monitor connected to the SR4300.
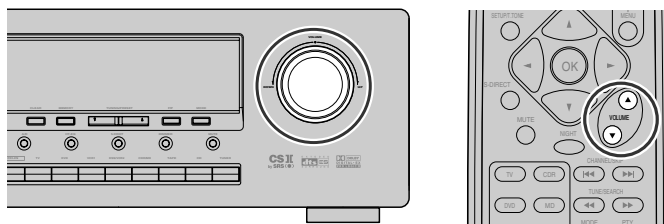
SELECTING THE SURROUND MODE

E.G. : AUTO SURROUND
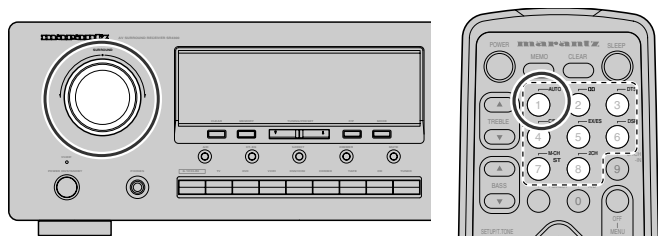
To select the surround mode during playback, turn the **SELECT** knob on the front panel or press the surround mode button on the remote .

ADJUSTING THE MAIN VOLUME

Adjust the volume to a comfortable level using the **VOLUME** control knob on the front panel or **VOL ▲** / **▼** buttons on the remote.
To increase the volume, turn the **VOLUME** knob to clockwise or press **VOL ▲** button on the remote, to decrease the volume, turn it to counterclockwise or press **VOL ▼** button on the remote.

Notes:

- The volume can be adjusted within the range of – ∞ to + 18 dB, in steps of 1 dB.
- However, when the channel level is set as described on page 24, if the volume for any channel is set at +1 dB 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.
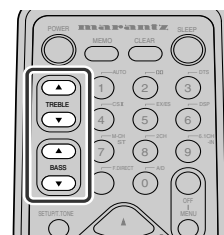
During a listening session you may wish to adjust the Bass and Treble Control to suit your listening tastes or room acoustics.

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

Notes :

- The tone control function can work for the front left and front right speakers.
- When Source Direct mode is set, tone control is disable.

TEMPORARILY TURNING OFF THE SOUND
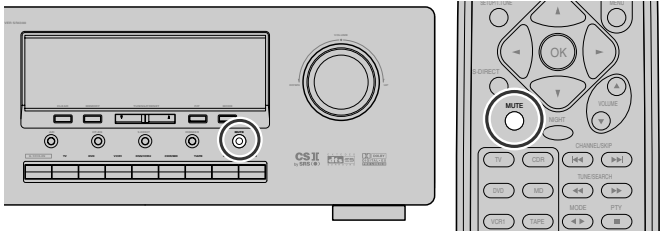
To temporarily silence all speaker outputs such as when interrupted by a phone call, press the **MUTE** button on the front panel or remote. This will interrupt the output to all speakers and the head-phone jack, but it will not affect any recording or dubbing that may be in progress. When the system is muted, the display will show "**MUTE"** . Press the **MUTE** button again to return to normal operation.

USING THE SLEEP TIMER
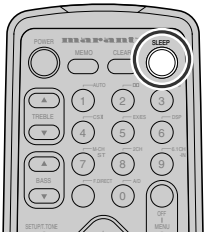
To program the SR4300 for automatic standby, press **SLEEP** buton on the remote.
Each press of the button will increase the time before shut down in the following sequence.

OFF ⟶ 10 ⟶ 20 ⟶ 30 ⟶ 40

90 ⟵ 80 ⟵ 70 ⟵ 60 ⟵ 50
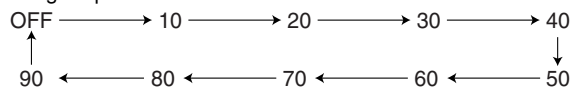
The sleep time will be shown for a few seconds in the display on the front panel, and it will count down until the time has elapsed.
When the programmed sleep time has elapsed, the unit will automatically turn off.
Note that the **SLEEP** indicator on the display will light up when the Sleep function is programmed.
To cancel the Sleep function, press the **SLEEP** button until the display shows to "**SLEEP OFF**" and the SLEEP indicator disappear.

NIGHT MODE
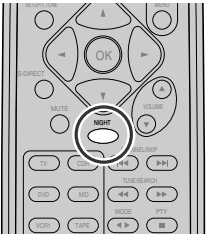
Press the **NIGHT** button on the remote to turn on the NIGHT mode. Selecting the Night Mode ON is effective in Dolby Digital only, and it compresses the dynamic range.
This softens loud passages such as sudden explosions, to help prevent disturbing others late at night.
To turn off the Night mode, press the **NIGHT** button again.

SURROUND MODE

The SR4300 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.

AUTO

When this mode is selected, the receiver determines whether the digital input signal is Dolby Digital, Dolby Digital Surround EX, DTS, DTS-ES or PCM-audio.
Surround EX & DTS-ES will operate for multi channel 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 II 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 is input for using mode, the mode is changed to AUTO mode automatically. Refer to page 30 to confirm the available decoding mode.

ⅠⅠ MODE

(Dolby Digital,Pro Logic II MOVIE, Pro Logic II MUSIC, 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 multi-channel encoded 5.1-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 II 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 II has below 3 modes.
Pro Logic II MOVIE
This mode provides 5.1 channel surround sound from Dolby Surround encoded stereo movie sound tracks.
Pro Logic II MUSIC
This mode provides 5.1 channel surround sound from conventional stereo sources, analog or digital, such as CD, tape, FM, TV, stereo VCR, etc.
Pro Logic
This mode emulated original Dolby Pro Logic decoding (3/1 surround) suit for Dolby Surround encoded stereo movie soundtracks.

Notes:
- Pro Logic II mode is available to 2ch input signal which is encoded 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.

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.

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 receiver 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 channels and higher quality of audio reproduction.
DTS-ES is not available in the system without surround back speaker.

dts MODE

(dts, Neo:6 Cinema, Neo:6 Music)
This mode is for DTS encoded source materials such as LASER DISC, CD, and DVD and some 2channel signal source.

dts : This mode is enabled when playing source materials encoded in dts multi channel.
Playing multi-channel 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 use when an analog input has been selected.

Neo:6 Cinema, Neo:6 Music
This mode decodes 2-channel signals into 6-channel 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.

Note:
- PCM-audio (32 kHz, 44.1 kHz or 48 kHz) and analog source material can playback in this mode.

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.

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

Circle Surround is designed to enable multi-channel surround sound playback of non-encoded and multi-channel 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.
Regarding to source material, you can select **CSII-Cinema** mode, **CSII-Music** mode or **CSII-Mono** mode.

Note:

 • PCM-audio (32 kHz, 44.1 kHz or 48 kHz) and analog source material can playback in this mode.

VIRTUAL

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

DSP SURROUND (MOVIE, HALL, STADIUM, MATRIX)

These modes provide surround effect processing from each input source material.
They will produce theater, concert hall and stadium like atmospheres. Select as your taste desires.

Note:

 • PCM-audio (32 kHz, 44.1 kHz or 48 kHz) and analog source material can playback in this mode.

STEREO

This mode bypasses all surround processing.
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 multi-channels are converted to two channel stereo. 96 kHz PCM source material can be playback in stereo mode.

S (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.
96 kHz PCM source material can be play back in this mode.

Notes:

 • Internal speaker size is setup to front L/R = Large, Center = Large, Surround L/R = Large and Subwoofer = yes automatically. Tone controls and additional processing are also defeated.

 • When you use this mode with certain DVD and CD players, performing operations such as "Skip" or "Stop" may momentarily interrupt the output.

CAUTION

NOTE for DTS signal

* Connected DVD-player, laser-disc 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 the SR4300 digitally. This is because the digital signal has been processed (such as the output level, sampling frequency, or frequency response) and the SR4300 cannot recognize the signal as DTS data.

* Depending on the player used, DTS play may produce short noise. This is not a malfunction. In such cases, select the surround mode the "DTS" or "DTS-ES".

* While signals from DTS-laser disc or CD are playing in another Surround mode, you cannot switch to digital input or from digital input to analog input by INPUT SETUP in SETUP MAIN MENU or A/D button.

* The outputs for the VCR 1 OUT, DSS/VCR 2 OUT, TAPE OUT, and CD-R OUT output analog audio signals. 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 96kHz PCM audio

* AUTO, Source- DIRECT, and STEREO modes can be used when playing PCM signals with a sampling frequency of 96 kHz (such as from DVD-Video discs that contain 24 bit, 96 kHz audio). If such signals are input during playback in one of the other surround modes, output from SR4300 will be muted.

* Certain DVD player models inhibit digital output. For details, refer to the player's operation manual.

* Some DVD formatted discs featured 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.

ENGLISH

The relation between the selected surround mode and the input signal

The surround mode is selected with the surround mode knob on SR4300 or the remote control unit. However, the sound you hear is subject to the relationship between the selected surround mode and input signal. That relationship is as follows;

Surround Mode	Input Signal	Decoding	L/R	C	SL SR	SB	SW	Dot matrix display	Signal format indicators	Channel status
AUTO	Dolby Surr. EX	Dolby Digital EX	O	O	O	O	O	DOLBY D EX	DD DIGITAL, EX	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Dolby Digital 5.1	O	O	O	-	O	DOLBY D	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	Dolby Digital 2.0	O	-	-	-	-	DOLBY D	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Pro LogicII movie	O	O	O	-	-	DOLBY PL II MV	DD DIGITAL , DD SURROUND	L, R, S
	DTS-ES	DTS-ES	O	O	O	O	O	DTS ES	dts , ES	L, C, R, SL, SR, S, LFE
	DTS (5.1ch)	DTS 5.1	O	O	O	-	O	DTS	dts	L, C, R, SL, SR, LFE
	PCM (Audio)	PCM (Stereo)	O	-	-	-	-	STEREO	PCM	L, R
	PCM 96kHz	PCM (96kHz Stereo)	O	-	-	-	-	STEREO	PCM, 96kHz	L, R
	Analog	Stereo	O	-	-	-	-	STEREO	ANALOG	-
S-DIRECT	Dolby D Surr. EX	Dolby Digital EX	O	O	O	O	O	DOLBY D EX	DD DIGITAL, EX	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Dolby Digital 5.1	O	O	O	-	O	DOLBY D	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	Dolby Digital 2.0	O	-	-	-	-	DOLBY D	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Pro LogicII movie	O	O	O	-	-	DOLBY PL II MV	DD DIGITAL , DD SURROUND	L, R, S
	DTS-ES	DTS-ES	O	O	O	O	O	DTS ES	dts , ES	L, C, R, SL, SR, S, LFE
	DTS (5.1ch)	DTS 5.1	O	O	O	-	O	DTS	dts	L, C, R, SL, SR, LFE
	PCM (Audio)	PCM (Stereo)	O	-	-	-	-	STEREO	PCM	L, R
	PCM 96kHz	PCM (96kHz Stereo)	O	-	-	-	-	STEREO	PCM, 96kHz	L, R
	Analog	Stereo	O	-	-	-	-	STEREO	ANALOG	-
EX/ES	Dolby D Surr. EX	Dolby Digital EX	O	O	O	O	O	DOLBY D EX	DD DIGITAL, EX	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Dolby Digital EX	O	O	O	O	O	DOLBY D EX	DD DIGITAL	L, C, R, SL, SR, LFE
	DTS-ES	DTS-ES	O	O	O	O	O	DTS ES	dts , ES	L, C, R, SL, SR, S, LFE
	DTS (5.1ch)	DTS-ES	O	O	O	O	O	DTS ES	dts	L, C, R, SL, SR, LFE
DOLBY (PLII MOVIE) (PLII MUSIC) (PRO LOGIC)	Dolby D Surr. EX	Dolby Digital 5.1	O	O	O	-	O	DOLBY D	DD DIGITAL, EX	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Dolby Digital 5.1	O	O	O	-	O	DOLBY PLII MS	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	Pro LogicII	O	O	O	-	-	DOLBY PL	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Pro LogicII	O	O	O	-	-	or DOLBY PLII MV	DD DIGITAL , DD SURROUND	L, R, S
	PCM (Audio)	Pro LogicII	O	O	O	-	-	or DOLBY PLII MS	PCM	L, R
	Analog	Pro LogicII	O	O	O	-	-		ANALOG	-
DTS (Neo:6 Cinema) (Neo:6 Music)	DTS-ES	DTS 5.1	O	O	O	-	O	DTS ES	dts , ES	L, C, R, SL, SR, S, LFE
	DTS (5.1ch)	DTS 5.1	O	O	O	-	O	DTS	dts	L, C, R, SL, SR, LFE
	PCM (Audio)	Neo:6	O	O	O	O	-	NEO 6 CINEMA	PCM	L, R
	Analog	Neo:6	O	O	O	O	-	or NEO 6 MUSIC	ANALOG	L, R
CSII CINEMA CSII MUSIC CSII MONO	PCM (Audio)	CSII	O	O	O	O	O	CSII CINEMA	PCM	L, R
	Analog	CSII	O	O	O	O	O	or CSII MUSIC or CSII MONO	ANALOG	-
STEREO	Dolby Surr. EX	Stereo	O	-	-	-	O	STEREO	DD DIGITAL, EX	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Stereo	O	-	-	-	O	STEREO	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	Stereo	O	-	-	-	-	STEREO	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Stereo	O	-	-	-	-	STEREO	DD DIGITAL , DD SURROUND	L, R, S
	DTS-ES	Stereo	O	-	-	-	O	STEREO	dts , ES	L, C, R, SL, SR, S, LFE
	DTS (5.1ch)	Stereo	O	-	-	-	O	STEREO	dts	L, C, R, SL, SR, LFE
	PCM (Audio)	Stereo	O	-	-	-	-	STEREO	PCM	L, R
	PCM 96kHz	Stereo	O	-	-	-	-	STEREO	PCM, 96kHz	L, R
	Analog	Stereo	O	-	-	-	-	STEREO	ANALOG	-
VIRTUAL	Dolby Surr. EX	Virtual	O	-	-	-	-	VIRTUAL	DD DIGITAL, EX	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Virtual	O	-	-	-	-	VIRTUAL	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	Virtual	O	-	-	-	-	VIRTUAL	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Virtual	O	-	-	-	-	VIRTUAL	DD DIGITAL , DD SURROUND	L, R, S
	DTS-ES	Virtual	O	-	-	-	-	VIRTUAL	dts , ES	L, C, R, SL, SR, S, LFE
	DTS (5.1ch)	Virtual	O	-	-	-	-	VIRTUAL	dts	L, C, R, SL, SR, LFE
	PCM (Audio)	Virtual	O	-	-	-	-	VIRTUAL	PCM	L, R
	Analog	Virtual	O	-	-	-	-	VIRTUAL	ANALOG	-
MULTI CH ST	Dolby Surr. EX	Dolby Digital EX	O	O	O	O	O	M-CH STEREO	DD DIGITAL, EX	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Dolby Digital 5.1	O	O	O	-	O	M-CH STEREO	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	Multi Channel Stereo	O	O	O	-	-	M-CH STEREO	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Multi Channel Stereo	O	O	O	-	-	M-CH STEREO	DD DIGITAL , DD SURROUND	L, R, S
	DTS-ES	DTS-ES	O	O	O	O	O	M-CH STEREO	dts , ES	L, C, R, SL, SR, S, LFE
	DTS (5.1ch)	DTS 5.1	O	O	O	-	O	M-CH STEREO	dts	L, C, R, SL, SR, LFE
	PCM (Audio)	Multi Channel Stereo	O	O	O	-	-	M-CH STEREO	PCM	L, R
	Analog	Multi Channel Stereo	O	O	O	-	-	M-CH STEREO	ANALOG	-
DSP SURROUND (MOVIE) (HALL) (STADIUM) (MATRIX)	PCM (Audio)	DSP	O	O	O	-	-	MOVIE	PCM	L, R
	Analog	DSP	O	O	O	-	-	or HALL or STADIUM or MATRIX	ANALOG	-

Dolby Surr.EX: Dolby Digital stream with Surround EX flag
DTS-ES: DTS digital stream with ES flag.
Dolby D(2ch Surr) : 2channel Dolby Digital stream with Dolby Surround flag

L/R = Front Left and Right speakers
C = Center speaker
SL/SR = Surround Left and Right speakers
SB = Surround back speaker
SW = Sub woofer speaker

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OTHER FUNCTION

## ATTENUATION TO ANALOG INPUT SIGNAL

When the input signal is too high and the voice distorts even by throttling the SR4300 VOLUME control, turn on this function. "ATT" is indicated when this function is activated.

"ATT" indicator will light up when this function is activated. The signal-input level is reduced by about the half. Attenuation will not work with the output signal of TAPE-OUT, CD-R/MD-OUT, VCR1-OUT and DSS/VCR2-OUT.

This function is memorized for each individual input source.

LISTENING OVER HEADPHONES

This jack may be used to listen to the SR4300's output through a pair of headphones. Be certain that the headphones have a standard 1/4" stereo phone plug. (Note that the main room speakers will automatically be turned off when the headphone jack is in use.)
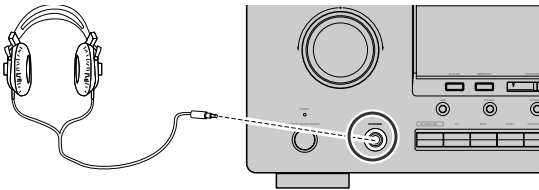
Notes:
- When using headphones, the surround mode will automatically change to STEREO.
- The surround mode returns to the previous setting as soon as the plug is removed from the jack.

DIMMER
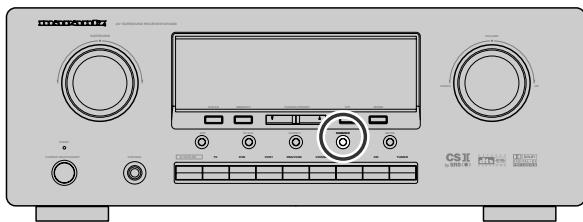
You can change the display brightness of the front display.
Press the **DIMMER** button on the front panel to change the brightness.
When this button is pressed, the brightness is changed in the following sequence.

→ dimmed → Display Off → normal → dimmed ....

Note:
- Only DISP indicator will light up on the front display in display off condition

SELECTING ANALOG AUDIO INPUT OR DIGITAL AUDIO INPUT
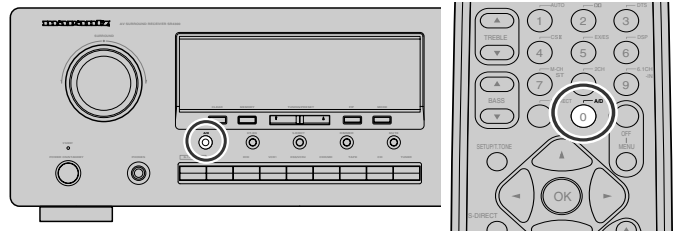
If you have already assign any digital input to input source.
You can select temporarily the audio input mode for each input source with the **A/D** button on the remote controller or front panel.
When this button is pressed, the input mode is switched in the following sequence.

→ Digital Auto → Digital → Analog → Digital Auto....

In Digital 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 mode, input is fixed to an assigned digital input terminal.
In analog mode, the analog input jacks are selected.
This selecting is temporarily, so the result will not be stored in memory.
If you need to change input mode completely, use SYSTEM SETUP in SETUP menu system. (see page 19)

RECORDING AN ANALOG SOURCE

In normal operation, the audio or video source selected for listening through the SR4300 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-R/MD OUT, VCR1 OUT, and DSS/VCR2 OUT** in the record mode.

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

1.
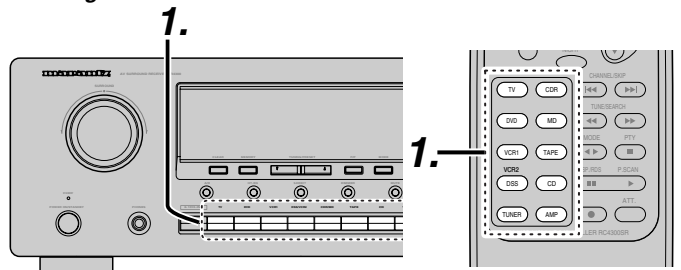
1. Select the input source to record by pressing the corresponding **input selector** button.
The input source is now selected and you may watch or listen to it as desired.

2. Outputs the currently selected input source signal to the **TAPE OUT , CD-R/MD OUT, VCR1 OUT, and DSS/VCR2 OUT** outputs for recording.

3. Start recording at the recording component as desired.

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.

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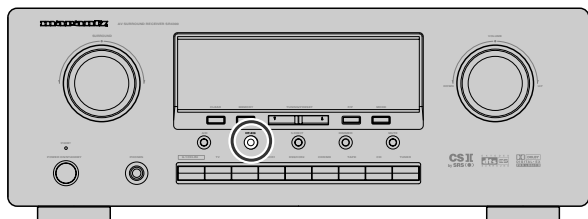
HT-EQ

Press the **HT-EQ** button on the front panel to turn on the HT-EQ mode.
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 can be activated only while in Dolby Pro Logic Mode, or while decoding Dolby Digital or DTS encoded material.
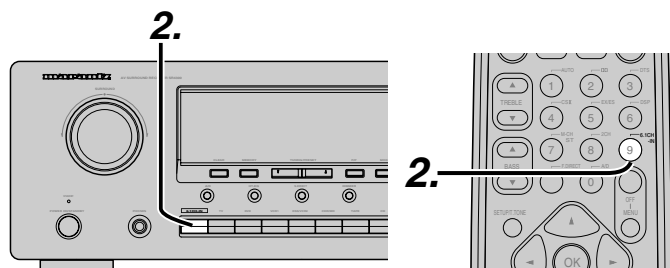
6.1 CH INPUT.

The SR4300 is equipped for future expansion through the use of Multi channel SACD multi channel player or DVD-Audio player.
This is selected, the input signals connected to the Front left, Front right, Center, Surround left, Ssurround right and Surround back channels of the 6.1 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 6.1 CH. INPUT is selected, the last video input used remains routed to the Monitor Outputs.
This permits simultaneous viewing with video sources.

2.

2.

2.

1. Select a desired Video source to decide the routed video signal to the Monitor Outputs **.**

2. Press the **6.1 CH-IN** button on the front panel or on the remote to switch the 6.1 channel input.

3. If necessary to adjust the output level of each channel, use "6.1 Ch. INPUT LEVEL" in SETUP menu system as desired.
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 adjusting result will be stored to 6.1 Ch. INPUT condition. (see to page 24)

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

To cancel the 6.1 Ch. INPUT setting, press the **6.1 CH-IN** button on the front panel or on the remote.

Notes:

• When the 6.1 Ch. Input is in use, you may not select a surround mode, as the external decoder determines processing.

• In addition, there is no signal at the record outputs when the 6.1 Ch. Input is in use.
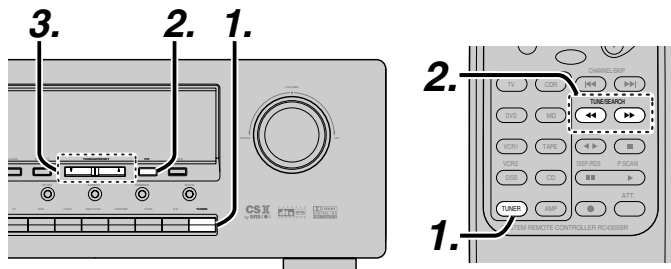
BASIC OPERATION (TUNER)

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 **TUNER** button on the remote more than 6 seconds. Scan step
will change.

Note:
- Preset memory for the tuner will clear by changing this setup.
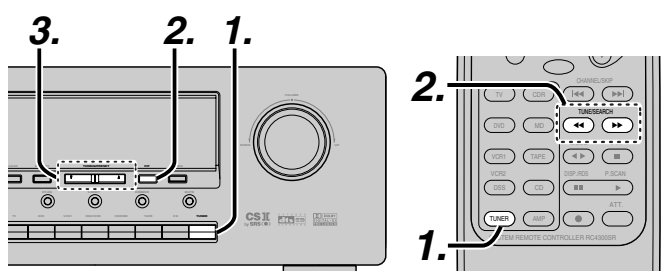
AUTO TUNING

(USING THE SR4300)
1. To select tuner and desired band (FM or AM), press the **TUNER**
button on the front panel.
2. Press the **F**/**P**(Frequency/Preset) button on the front panel to
appears frequency on the display.
3. Press the **TUNING ▲** or **▼** button on the front panel for more than
1 second to start the Auto tuning function.
4. Automatic searching begins then stops when a station is tuned in.

(Using the remote control unit)
1. To select tuner and desired band (FM or AM), press the **TUNER**
button twice within in two seconds on the remote.
2. Press **◄◄** or **►►** more than 1 second on the remote.
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 SR4300)
1. To select tuner and desired band (FM or AM), press the **TUNER**
button on the front panel
2. Press the **F**/**P**(Frequency/Preset) button on front panel to appears
frequency on the display.
3. Press the **TUNING ▲** or **▼** button.

(Using the remote control unit)
1. To select tuner and desired band (FM or AM), press **TUNER**
button twice within in two seconds on the remote.
2. Press **◄◄** or **►►** on the remote to tune in the desired station.

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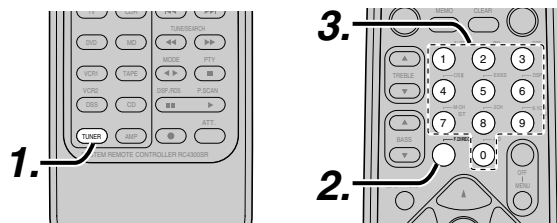
1. To select tuner and desired band (FM or AM), press the **TUNER**
on the remote.
2. Press the **F.DIRECT** button on the remote, display will show
"**FREQ - - -** ".
3. Input your desired station's frequency with **numeric buttons** on
the remote.
4. The desired station will automatically be tuned.

(FM) TUNING MODE (AUTO STEREO OR MONO)
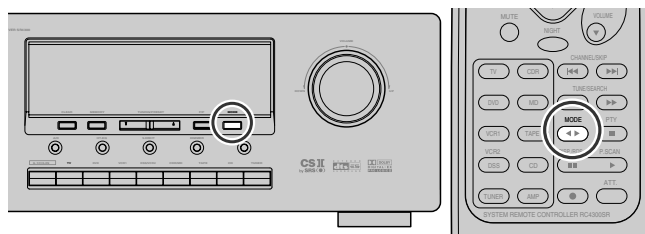
When in the auto stereo mode, **AUTO** indicator keeps to light on the
display.
The "**ST**" indicator lights on when a stereo broadcast is tuned in.
At open frequencies, the noise is muted and the "**TUNED**" and "**ST**"
indicators turn off.
If the signal is weak, it may be difficult to tune into the station in stereo.
In such a case, press the **MODE** button on the front panel or on the
remote.
"**AUTO**" indicators turn off ,FM stereo broadcasts are received in
monaural and the "**ST**" indicator turns off.
To return to auto stereo mode, press the **MODE** button on the front
panel or on the remote again. **AUTO** indicator lights on the display.

PRESET MEMORY

With this unit you can preset up to 30 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.
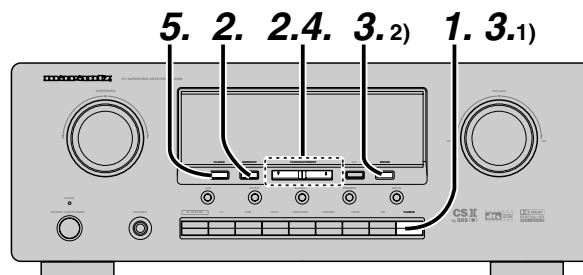
1. To select FM , press the **TUNER** button on the front panel.
2. While pressing the **MEMORY** button, press the **TUNING ▲** button
to up.
"**AUTO PRESET**" will appear on the display, and scanning starts
from lowest frequency.

3. Each time the tuner finds a station, scanning 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 **TUNER** button .

4. 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 **TUNING ▲** button during this period, this station is skipped and auto presetting continues.

5. Operation stops automatically when all 30 preset memory positions are filled or when auto scanning attains the highest endof all bands. If you desire to stop the auto preset memory at anytime, press the **CLEAR** button.

MANUAL PRESET MEMORY
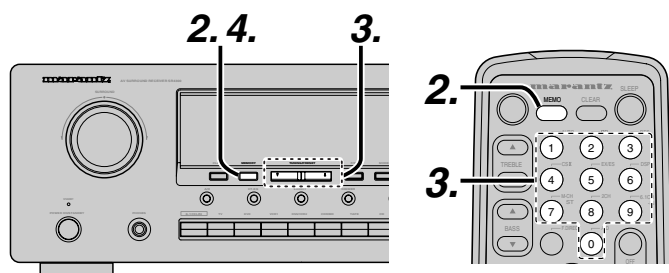
(Using the SR4300)
1. Tune into the radio station you desire (Refer to the **"MANUAL TUNING"** or **"AUTO TUNING"** section).
2. Press the **MEMORY** button on the front panel. "– –" (preset number) starts blinking on the display.
3. Select the preset number by pressing the **TUNING ▲** or **▼** button, 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.

(Using the remote control unit)
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 unite. "– –" (preset number)starts blinking on the display.
3. Enter the desired preset number by pressping **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.
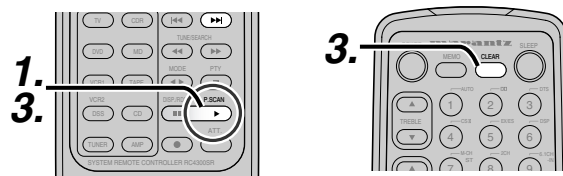
RECALLING A PRESET STATION
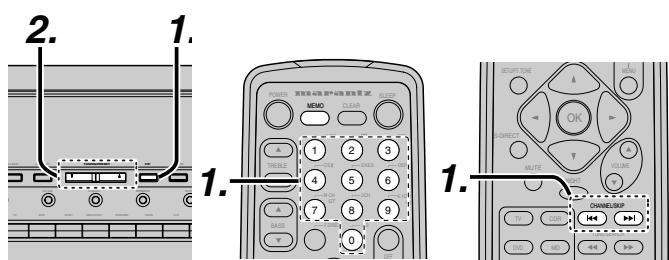
(Using the SR4300)
1. Press the **F/P** button to show the preset station on the display.
2. Select the desired preset station by pressing the **TUNING ▲** or **▼** button on the front panel

(Using the remote control unit)
1. Press the ◄◄ or ►► button to select the desired preset station, or input your desired preset channel with **numeric buttons** on the remote.

PRESET SCAN

(Using the remote control unit)
1. Press the **P.SCAN** on remote.
"**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 → No.2 → etc.) for 5 seconds each.
No stored preset number will be skipped.
3. You can fast forward the preset stations by pressping the ►► continuously.
When the desired preset station is received, cancel the preset scan operation by pressping the **CLEAR** or **P.SCAN.**

CLEARING STORED PRESET STATIONS

You can remove preset stations from memory using the following procedure.
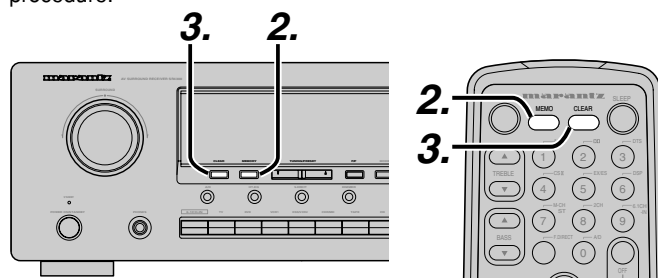
1. Recall the preset number to be cleared with the method described in "**RECALLING**" a preset station.
2. Press the **MEMORY** button on the front panel or press **MEMO** button on the remote.
3. Stored preset number blinks in the display for 5 seconds. While blinking, press the **CLEAR** button on the front panel or press **CLEAR** on the remote unit.
4. "**xx CLEAR**" appears on the display to indicate that the specified preset number has been cleared.

Notes:
• To clear stored all preset stations, press and hold the **CLEAR** and the **F/P** buttons for two seconds.

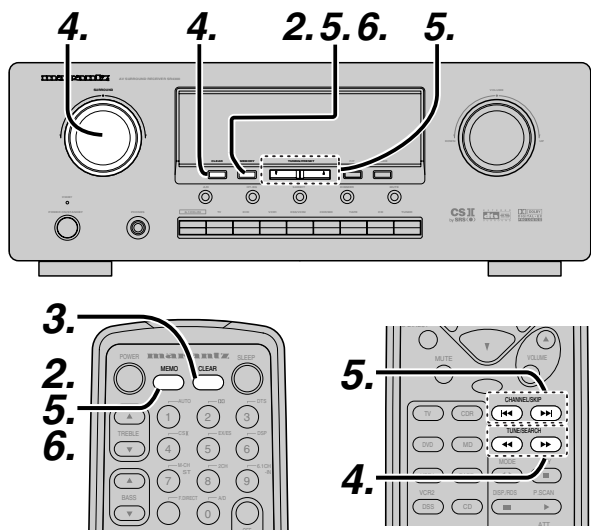## NAME INPUT OF THE PRESET STATION.

This function allows the name of each preset channel to be entered using alphanumeric characters.
Before name inputting, 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.
2. Press the **MEMORY** button on the front panel or press **MEMO** on the remote for more than 3 seconds.
3. The left most column of the station name indicator flashes, indicating the character entry ready status.
4. When the **SELECT** knob is turned or press ◄◄ / ►► button on the remote, alphabetic and numeric characters will be displayed in the following order:
   A → B → C ... Z → 1 → 2 → 3 ..... 0 → − → + → / → (Blank) → A
                                   UP →
                            ← DOWN

   To clear the input charcter, press the **CLEAR** button on the front panel or on the remote.
5. After selecting the first character to be entered, press the **MEMORY** button on the front panel, or press **MEMO** button on the remote.
   The entry in this column is fixed and the next column starts to flash. Fill the next column same as.
   To move back and forth between the characters, press the **TUNING ▲ / ▼** button or press ◄◄ / ►► buttons on the remote.
   Note:
     • Unused columns should be filled by entering blanks.
6. To save name, press the **MEMORY** button, press **MEMO** button on the remote for more than 2 seconds.

REMOTE CONTROLLER OPERATION

CONTROLLING MARANTZ COMPONENTS

1. Press the desired function button.

2. Press the desired operation buttons to play the selected component.

• For details, refer to the components's user guide.
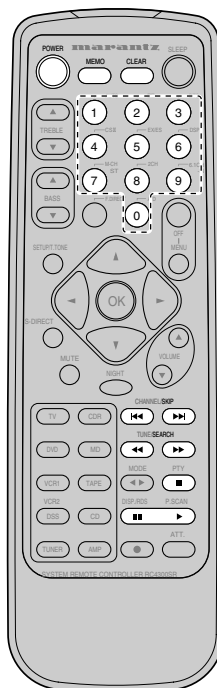
• It may not be possible to operate some models.

CONTROLLING A MARANTZ DVD PLAYER (DVD MODE)
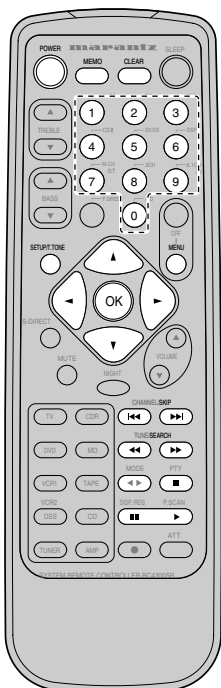
POWER	Turns the DVD player on and off
MEMO	Calls up programming
CLEAR	Clears the inputting
0-9	Inputs the numeric
SETUP/T.TONE	Calls up the setup menu of the DVD player
Cursor	Moves the cursor in setup menu
OK	Confirms the setting in setup menu
MENU	Calls up the menu of the DVD disc
◄◄ / ►►|	Skips forward or previous chapter/ track
◄◄ / ►►	Searches forward or backward
■	Stop
❚❚	Pause
►	Play

CONTROLLING A MARANTZ CD PLAYER (CD MODE)

POWER	Turns the CD player on and off
MEMO	Calls up programming
CLEAR	Clears the inputting
0-9	Inputs the numeric
◄◄ / ►►|	Skips forward or previous chapter/ track
◄◄ / ►►	Searches forward or backward
■	Stop
❚❚	Pause
►	Play

CONTROLLING A MARANTZ VCR (VCR1 MODE)
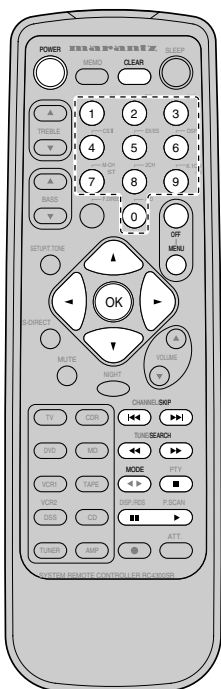
POWER	Turns the VCR on and off
CLEAR	Selects the tape speed for recording
0-9	Inputs the numeric
MENU OFF	Cancels the displayed "Menu" function
Cursor	Moves the cursor in setup menu
OK	Confirms the setting in setup menu
MENU	Calls up the menu of the VCR disc
◄◄ / ►►|	Skips forward or previous chapter/ track
◄◄ / ►►	Searches forward or backward
MODE	Selects sound output mode
■	Stop
❚❚	Goes to still picture and if pushed again increment the picture one by one
►	Play
●	Record

CONTROLLING A MARANTZ CD RECORDER (CDR MODE)
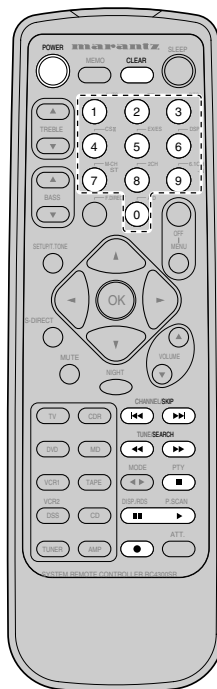
POWER	Turns the CD recorder on and off
CLEAR	Clears the inputting
0-9	Inputs the numeric
◄◄ / ►►|	Skips forward or previous track
◄◄ / ►►	Searches forward or backward
■	Stop
❚❚	Pause
►	Play
●	Record

CONTROLLING A MARANTZ MD DECK (MD MODE)
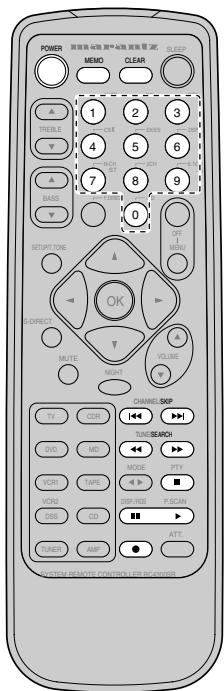
POWER	Turns the MD deck on and off
MEMO	Calls up programming
CLEAR	Clears the inputting
0-9	Inputs the numeric
◄◄ / ►►◄	Skips forward or previous chapter/ track
◄◄ / ►►	Searches forward or backward
■	Stop
❚❚	Pause
►	Play
●	Record

CONTROLLING A MARANTZ TAPE DECK (TAPE MODE)
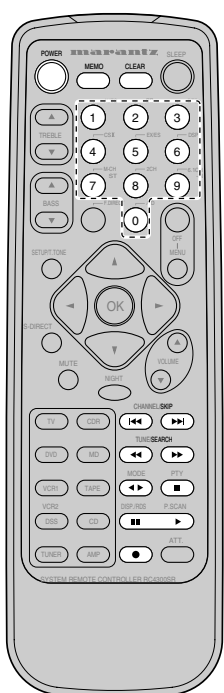
POWER	Turns the casette deck on and off
MEMO	Calls up programming
CLEAR	Clears the inputting
0-9	Inputs the numeric
◄◄ / ►►◄	Skips forward or previous chapter/ track
◄◄ / ►►	Searches forward or backward
◄ ►	Chages the direction
■	Stop
❚❚	Pause
►	Play
●	Record

TROUBLESHOOTING

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 distributor or the Marantz Service Center in your country.

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 user's guide ?
3. Are the power amplifiers and speaker working properly ?

| SYMPTOM	CAUSE	REMEDY
SR4300 cannot be turned up.	The power plug is not connected.	Connect the power plug to the outlet.
No sound and picture are output even when power is on.	Mute is on. The input cable is not connected correctly. The master volume control is turned all the way down. The function selector position is wrong.	Cancel mute using the remote control unit. See the connection diagram and connect the cables correctly. Adjust the master volume. Select correct position.
Speaker does not outputting any sound.	The headphones are connected to the headphone jack.	Disconnect the headphones. (Speakers will not output sound when headphones are connected.)
Sound and pictures from other than equipment selected with the function selector.	Input cable connected incorrectly.	Connect the cable correctly by referring to the connection diagram.
Sound from the wrong channel is output from the speaker.	Speaker cable connected incorrectly.	Connect the cable correctly by referring to the connection diagram.
No sound is output from the center speaker.	The center speaker cable connection is incomplete. STEREO has been selected for Surround mode. Center = NONE has been selected in SETUP mode.	Connect the cable correctly. When STEREO is selected for Surround mode, no sound will be output from the center speaker. Set another Surround mode. Make the correct setting.
No sound is output from the surround speakers.	The surround speaker cable connection is incomplete. STEREO has been selected for Surround mode. Surround = NONE has been selected in SETUP mode.	Connect the cable correctly. When STEREO has been selected for Surround mode, no sound will be output from the surround speaker. Set another Surround mode. Make the correct setting.
No sound is output from the surround back	The surround back speaker cable connection is incomplete Surround mode is not EX/ES mode. Surround back = NONE has been selected in SPEAKERS SIZE SETUP	Connect the cable correctly. Set surround mode EX/ES Make the correct setting.
Can not select EX/ES mode.	Surround back = NONE has been selected in SPEAKERS SIZE SETUP Input signal is incompatible.	Make the correct setting. Use 5.1channel source.
Can not select Pro Logic II 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 PCM input signal or analog input signal.
Can not select CSII mode.	Input signal is incompatible.	Use 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 antenna 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 control unit fails.	Batteries are consumed.. Remote controller's function-key setting is wrong. The distance between this SR4300 and the remote commander is too far. Something is blocking SR4300 and the remote commander.	Replace all the batteries with new ones. Select different position from which equipment will be controlled. Move closer to this SR4300. Remove offending object.

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

HOW TO RESET THE UNIT
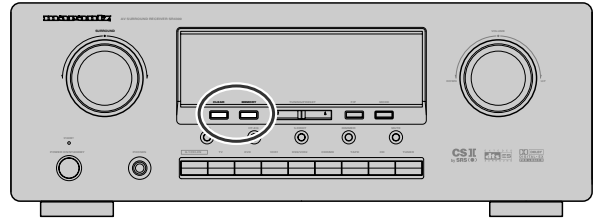
Should the operation or display seem to be abnormal, reset the unit with the following procedure.

The SR4300 is turned on, press and hold the **CLEAR** and **MEMORY** buttons simultaneously for 3 seconds or more.

Remember that the procedure will reset the settings of the function selector, Surround mode, delay time, TUNER PRESET etc., to their initial settings.

```
Memory backup
•  In case a power outage occurs or the power cord is accidentally
   unplugged, the SR4300 is equipped with a backup function to
   prevent memory data such as the preset memory from being
   erased.
```

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TECHNICAL SPECIFICATIONS

FM TUNER SECTION

Frequency Range .... 87.5 - 108.0 MHz
Usable Sensitivity .... IHF 1.8 µV/16.4 dBf
Signal to Noise Ratio .... Mono/Stereo 76/72 dB
Distortion .... Mono/Stereo 0.2/0.3 %
Stereo Separation .... 1 kHz 45 dB
Alternate Channel Selectivity .... ± 400 kHz 60 dB
Image Rejection .... 98 MHz 70 dB
Tuner Output Level .... 1 kHz, ± 75 kHz Dev 800 mV

AM TUNER SECTION

Frequency Range .... 520 - 1710 kHz
Signal to Noise Ratio .... 50 dB
Usable Sensitivity .... Loop 500µV
Distortion .... 400 Hz, 30 % Mod. 0.5 %
Selectivity .... ± 20 kHz 70 dB

AUDIO SECTION

Power Output (20Hz – 20kHz / THD=0.08%)
Front L&R 8ohms 80W/Ch
Center 8ohms 80W/Ch
Surround L&R 8ohms 80W/Ch
Surround Back 8ohms 80W/Ch

Front L&R 6ohms 95W/Ch
Center 6ohms 95W/Ch
Surround 6ohms 95W/Ch
Surround Back 6ohms 95W/Ch
Input Sensitivity/Impedance .... 215 mV/ 47 kohms
Signal to Noise Ratio (Analog Input/Source Direct) .. 95 dB
Frequency Response
(Analog Input/Source Direct) .... 8Hz-70kHz(±3dB)
(Digital Input/96kHz PCM) .... 8Hz-45kHz(±3dB)

VIDEO SECTION

Television Format .... NTSC
Input Level/Impedance .... 1 Vp-p/ 75 ohms
Output Level/Impedance .... 1 Vp-p/ 75 ohms
Video Frequency Response .... 5 Hz to 8 MHz (– 1 dB)
Signal to Noise Ratio .... 60 dB

GENERAL

Power Requirement .... AC 120 V 60 Hz
Power Consumption 325W
Weight .... 27.6 lbs (12.5 Kg)

ACCESSORIES

Remote Control Unit RC4300SR 1
AAA-size batteries 2
FM Antenna 1
AM Loop Antenna 1
Warranty Card (for USA) 1
Warranty Card (for CANADA) 1
User Guide 1

Specifications subject to change without prior notice.

DIMENSION
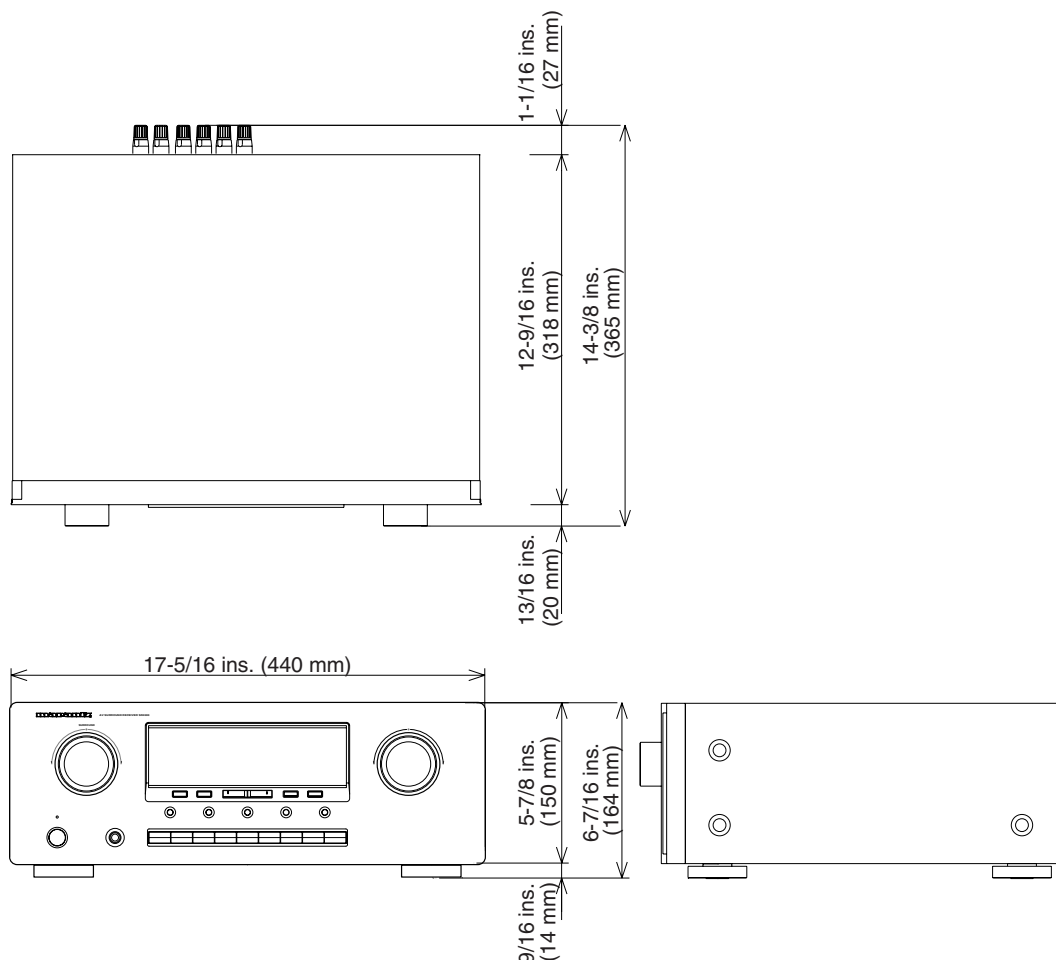
COUNTRY	COMPANY	ADDRESS
ALGERIE	Azur 2000	8, Lotissement Ben Hatadi, Alger, Algerie
ARMENIA	NGYIG Ltd.	47 A/75 St. Lalaiants, 375000 Yerevan, Armenia
AUSTRALIA	QualiFi Pty. Ltd.,	P.O. Box 350, Mt. Waverley, VIC 3149, Australia
AUSTRIA	Huber & Prohaska GmbH	Taborstraße 95 / Ladestraße 1, Gebäude Hangartner, A-1200 Wien, Austria
BAHREIN	Ambassador Stores	P.O. Box 237,141, Government Avenue, Manama,Bahrein
BANGLADESH	Target	1078, Ramjoy Mohanja Lane Asadgonj, Chittagong 4000, Bangladesh
BELGIUM	Van der Heyden Audio N.V.	Brusselbaan 278, 9320 Erembodegem, Belgium
BULGARIA	Ariescommerce GmbH	Makedonia Blvd. 16, 1606 Sofia, Bulgaria
CANADA	Lenbrook Industries Limited	633 Granite Court, Pickering, Ontario
CHINA	Guang Chang Audio International Co., Ltd.	No.38 Yushan Road, ShiQiao, Pan Yu, Guang Dong, China
CYPRUS	Empire Hifi systems Ltd.	P.O. Box 5604, Nicosia, Cyprus
CZECH REPUBLIC	Audio International	Sokolska 41, 67902 Rajecko, OKR,Blansko, Czech Republic
DENMARK	Audio Nord	Dali Allé 1, 9610 Noerager, Denmark
DUBAI	V.V.& SONS	P.O. Box 105, Dubai, U.A.E.
EGYPT	Solimco	9, El Attibaa St. Doki, Cairo, Egypt
ESTONIA	HiFi Club Estonia	Ehte 4, 90503 Haapsalu, Estonia
F.Y.R.O.M.	T.P. KODI	ul.Cedomir Kantargiev 21a, Skopje, Former Yugoslavian Republic of Macedonija
FINLAND	Audio Nord	Uudenmaankatu 4-6, Helsinki SF-00120, Finland
FRANCE	Marantz France	A division of Marantz Europe B.V., P.O. Box 301, 92 156 Suresnes Cedex, France
GERMANY	Marantz Deutschland	Hakenbusch 3, 49078 Osnabrück, Germany
GREECE	Adamco S.A.	188, Hippocratous Street, 11471 Athens, Greece
HEADQUARTERS EUROPE:	Marantz Europe B.V.	P.O. Box 8744, 5605 LS Eindhoven, The Netherlands
HONG KONG	Marantz Hong Kong Ltd.	Unit 1706, Metroplaza II, 223 Hing Fong Road, Kwai Fong, N.T., Kowloon, Hong Kong
HUNGARY	Infovox Ltd.	Terez Krt.31, 1067 Budapest, Hungary
ICELAND	ID Electronics Ltd.	Armula 38, 108 Reykjavik, Iceland
INDIA	NOVA Audio Private	8,Punam Co-op.Society 29/30 Road#5, Union Park MUMBAI 400052, India
IRAN	Home Co.	5th floor no 878 Philips Building Enghelab ave, P.O. 11365/7844 Tehran, Iran
IRELAND	Marantz Ireland	Clonskeagh, Dublin 14, Ireland
ISRAEL	Elmor Ltd.	52 Heh Beiyar Street, Kikar Hamedina, Tel Aviv, Israel
ITALY	Marantz Italy	Via Casati 23, 20052 Monza (Milano), Italy, Servizio Consumatori 1678-20026, Numero Verde
IVORY COAST	Hifivoir	B.P. 2428, Abidjan 01, Ivory Coast
JAPAN	Marantz Japan Inc.	35-1 Sagami Ohno 7-Chome, Sagamihara-shi, Kanagawa 228-8505, Japan
KOREA	MK Enterprises Ltd.	Rm604, Electro-officetel, 16-58. Hangang-ro 3Ga, Yongsan-Ku, Seoul, Korea
KUWAIT	alAlamiah Electronics Intl.	P.O. Box 8196, Salmiah 22052, Kuwait
LATVIA	Ace Ltd.	61, LacPlesa Str., Riga LV 1011, Latvia
LEBANON	AZ Electronics S.A., 1,	P.O. Box 11 2833, Beirut, Lebanon
LITHUANIA	Accapella Ltd.	Ausros, Vartu G/5, Pasazo SKG., 2001 Vilnius, Lithuania
MALAYSIA	Wo Kee Hong Electronics Sdn. Bhd.	2nd Floor Bangnan Infinite Centre, Lot1, Jalan 13/6, 46200 Petaling Jaya, Selangor Datul Ehsan, Malaysia
MALTA	Doneo Co Ltd.	78 The Strand, Sliema SLM07, Malta
MAURITIUS	SKR Electronics Ltd.	P.O. Box 685, Bell Village, Port Louis, Mauritius
MILITARY MARKET EUROPE	PASCO GmbH	PO BOX 1280, Sandhausen 69200, Germany
NEW ZEALAND	Wildash Audio Systems	14 Malvern Road, Mt. Albert, Auckland, New Zealand
NORWAY	Audio Nord	Sandkerveien 64, Oslo 0483, Norway
OMAN	Mustafa & Jawad Trading CO.	P.O. Box 1918, Ruwi, Oman
POLAND	Philips Polska Sp. z.o.o.	Al.Jerozolimskie 195b, 02 222 Warszawa, Poland
PORTUGAL	Corel2	Comércio de Electrónica Lda., Av. Luís Bívar, No 85 A, 1050 Lisboa, Portugal
PROFESSIONAL EUROPE	Marantz Professional Products	Kingsbridge House, Padbury Oaks, 575-583 Bath Road, Longford, Middlesex UB7 0EH, U.K.
PROFESSIONAL U.S.A.	Marantz Professional Products	Distributed by: Superscope Technologies Inc., 1000 Corporate Blvd. Ste.D, Aurora, Illinois
QATAR	Almana & Partners W.W.L.	P.O. Box 49, Doha, Qatar
REUNION	Vision +	180 Rue du Marechal Leclerc, 97400 Saint Denis, Ile de la Reunion
ROMANIA	Nova Music Entertainment	5, Zagazului Str. Bl.1G,apt.18, sector 1,Bucharest, Romania
RUSSIA	Absolute Audio	7/2, Montazhnaya Street, 107497 Moscow, Russia
SAUDI ARABIA	Adawlia Univ. Electr. Apl	P.O. Box 2154, Alkhobar 31952, Saudi Arabia
SINGAPORE	Wo Kee Hong Distribution PTE Ltd.	130 Joo Seng Road, #03-02 Olivine Building, Singapore 368357
SLOVAKIA	Bis Audio s.r.o.	Nam. SNP 10, 96001 Zvolem, Slovakia
SLOVENIA	Bofex	Smartinska 152, HALA V/3, 61000 Ljubljana, Slovenia
SOUTH AFRICA	Coherent Imports (PTY) Ltd.	P.O. Box 1614, Alberton, 1450, South Africa
SPAIN	Marantz Spain	Martinez Villergas 2, Apartado 2065, Madrid 28027, Spain
SRI LANKA	The listening Room	Mezzanine Floor, The Landmark 385, Galle Road, Colombo - 3, Sri Lanka
SWEDEN	Audio Nord	Almedalsvagen 4, Gotenborg 402-23, Sweden
SWITZERLAND	Sound Company AG	Postfach, 8010 Zürich, Switzerland
SYRIA	Hamzeh & Partners	Hafez Ibrahim Str. No 117, Damascus Shalan, Syria
TAHITI	Covecolor	Av. Prince Hinoi, Cours de l'union sacré, P.O. Box 2334, Papeete, Tahiti
TAIWAN	Pai-Yuing Co. Ltd.	6th No 148 Sung Kiang Road, Taipei 10429, Taiwan R.O.C.
THAILAND	MRZ Standard Co. Ltd.	746-750 Mahachai Road, Wangburapa, Bangkok 10200, Thailand
TUNESIA	Societe EDEVIG	40, Avenue du Golfe Arabe, El Menzah, 1004, Tunesia
TURKEY	Türk Philips Ticaret A.S.	Yukari Dudullu Organize sanayi Bolgesi, 2.Cadde no.28, 81260 Umraniye-Istanbul, Turkey
U.K.	Marantz Hifi UK Ltd.	Kingsbridge House, Padbury Oaks, 575-583 Bath Road, Longford, Middlesex UB7 0EH, U.K.
U.S.A.	Marantz America Inc.	1100 Maplewood Drive Itasca, IL 60143, U.S.A.
YUGOSLAVIA	ITM Company	Omladinskih Brigada 86, 11070 Belgrade, Yugoslavia

www.marantz.com

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