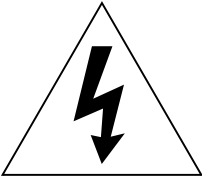

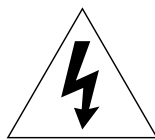


marantz®

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:

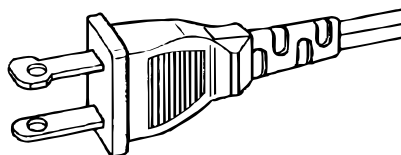
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 these instructions - All the safety and operating instructions should be read before the product is operated.
2. Keep these instructions - The safety and operating instructions should be kept for future reference.
3. Heed all warnings - All warnings on the product and in the operating instructions should be adhered to.
4. Follow all instructions - All operating and use instructions should be followed.
5. Do not use this apparatus near water - 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.
6. Clean only with dry cloth - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning.
7. Do not block any ventilation openings. Install in accordance with the manufacture's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



AC POLARIZED PLUG

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. 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.

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.

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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



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 DVD's, LD's, and CD's.

ÒDTSÓ and ÒDTS Digital SurroundÓ are registered trademarks of Digital Theater Systems, Inc.



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.



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.

ÒDTSÓ, ÒDTS-ES Extended SurroundÓ and ÒNeo:6Ó are trademarks of Digital Theater Systems, Inc.



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. ÒDolbyÓ, ÒPro LogicÓ, and the double-D symbol are trademarks of Dolby Laboratories.



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 ÓinsideÓ 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 Ð 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 Ð 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.

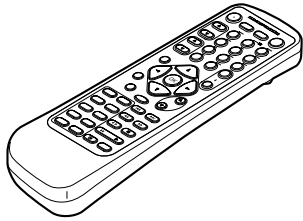
2 Digital outputs for connection to CD recorder or MD deck.

30 STATION RANDOM ACCESS PRESET TUNING

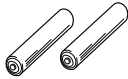
High-quality AM/FM tuner with 30 station random access preset tuning.

ACCESSORIES

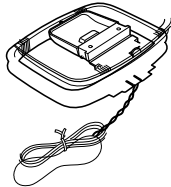
Remote Controler RC4300SR



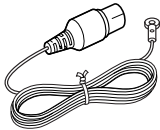
AAA-size batteries X 2



AM Loop Antenna



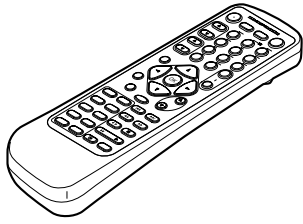
FM Antenna



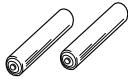
Registration Card
User Guide

ACCESSORIES

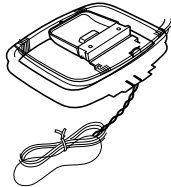
Remote Controller RC4300SR



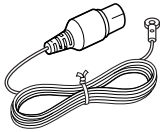
AAA-size batteries X 2



AM Loop Antenna

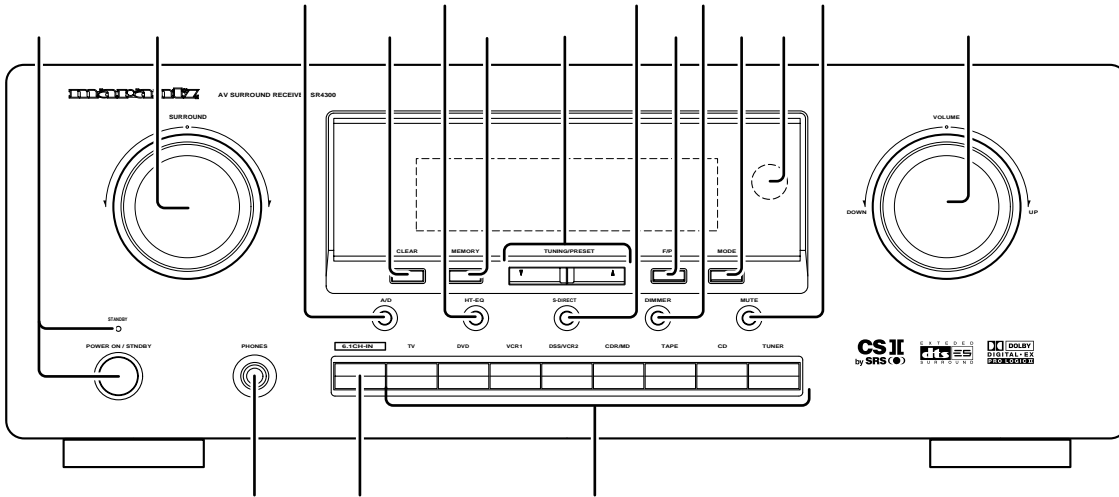


FM Antenna



Registration Card
User Guide

FRONT PANEL



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.

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.

CLEAR button

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

MEMORY button

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

TUNING UP / DOWN buttons

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

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.

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.

Infrared receiving (IR) sensor window

This window receives infrared signals for the remote control unit.

VOLUME control knob

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

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/CR2, 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.

6.1CH IN button

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

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.

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.

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 right. When this button is pressed, EQ indicator lights up.

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)

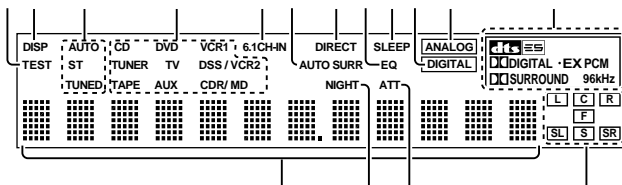
DIMMER button

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.

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



TEST tone indicator

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

DISP (Display Off) indicator

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

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.

INPUT SOURCE indicators

These indicators show the current input source.

6.1 CHANNEL DIRECT IN indicator

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

AUTO.SURR (Auto Surround mode) indicator.

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

DIRECT (Source direct) indicator

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

EQ mode indicator

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

SLEEP timer indicator

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

DIGITAL Input Indicator

This indicator lights when digital input has been selected.

ANALOG input indicator

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

SIGNAL FORMAT indicators

DIGITAL, EX, 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.

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 FE 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, SR and FE will show.

ATT (Attenuation) indicator

This indicator lights when the attenuation function is active.

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.

Main Information Display

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

" **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.

" **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.

" **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 CONTROL 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.

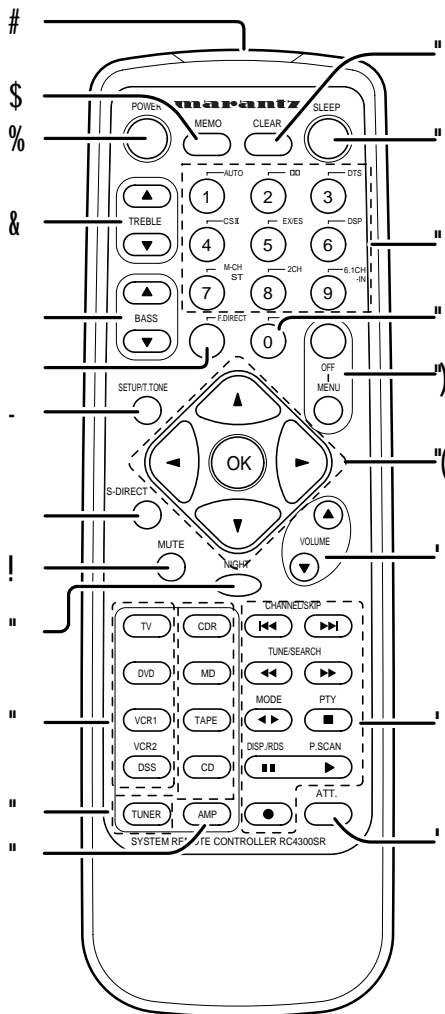
¥Example: To select the DVD as the input source and play the DVD player.

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



Infrared window

Outputs and inputs an infrared control signals.

\$ MEMO(Memory) button

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

% POWER button

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

& TREBLE ▲ (Up) / ▼ (Down) buttons

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

BASS ▲ (Up) / ▼ (Down) buttons

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

F.(Frequency) DIRECT button

Press this button to change tuner mode Frequency Direct Call.

- 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.

S- (Source) DIRECT button

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

! MUTE button

Press this button decrease the sound temporarily .

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

" 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.

" Input selector buttons/ FUNCTION

SELECTOR buttons for VIDEO component

" 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.

" AMP button

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

" CLEAR button

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

" 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.

" 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.

" 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.

) 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.

(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

' MAIN VOLUME ▲ (Up) / ▼ (Down) buttons

Adjusts the overall sound level. The front, surround, center and subwoofer channel volumes controlled by these buttons simultaneously.

' 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.

' ATT (attenuate) button

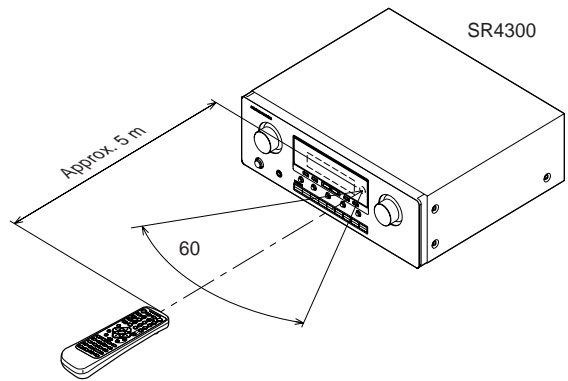
When the input signal is too high and the voice distorts even by throttling the SR4300 VOLUME control, turn on this function. ATT is indicated when this function is activated.

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)

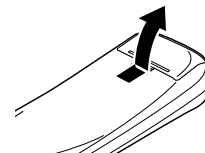
LOADING BATTERIES

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.

