marantz ®

Model SR5300 User Guide

AV Surround Receiver

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.
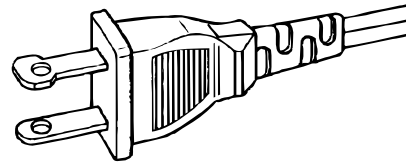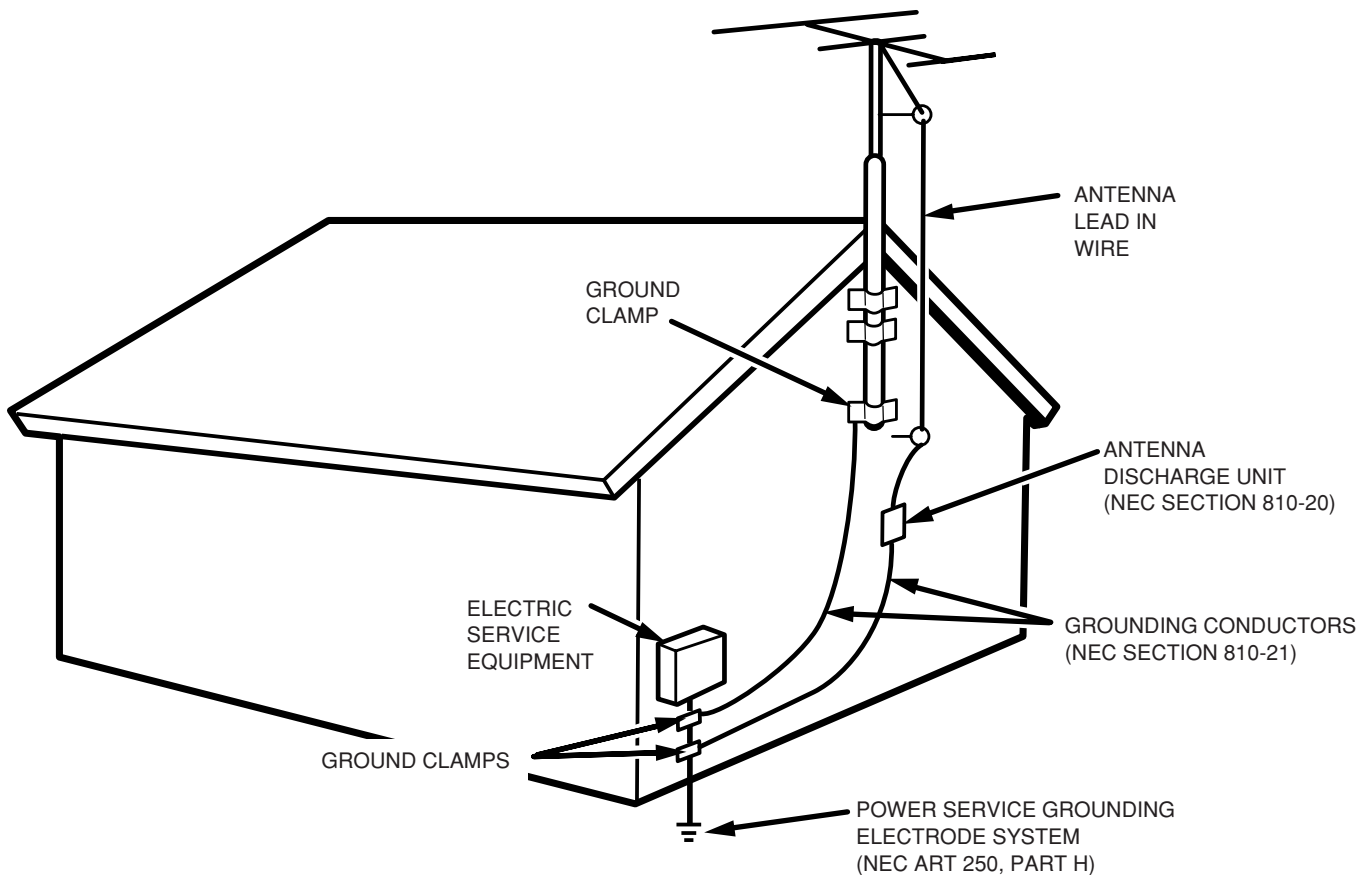
AC POLARIZED PLUG

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.

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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.

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.

NOTE TO CATV SYSTEM INSTALLER:

This reminder is provided to call the CATV (Cable-TV) system installer's attention to Article 820-40 of the NEC, that provides guidelines for proper grounding and, in particular, specified that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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- 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 may cause this unit to fail to comply with Part 15 of the FCC Rules and may void the user's authority to operate the equipment.

Night mode
Attenuate
PEAK

FM stereo
Tuned   Auto tuning mode   Encoded channel status
Surround mode   RDS mode   Speaker Indicator

○ PEAK

○ ATT

○ NIGHT

○ DISPLAY OFF

○ HT-EQ

HT-EQ
Display off

Input indicator

Direct mode

Memory

Preset channel

Sleep timer

Mute

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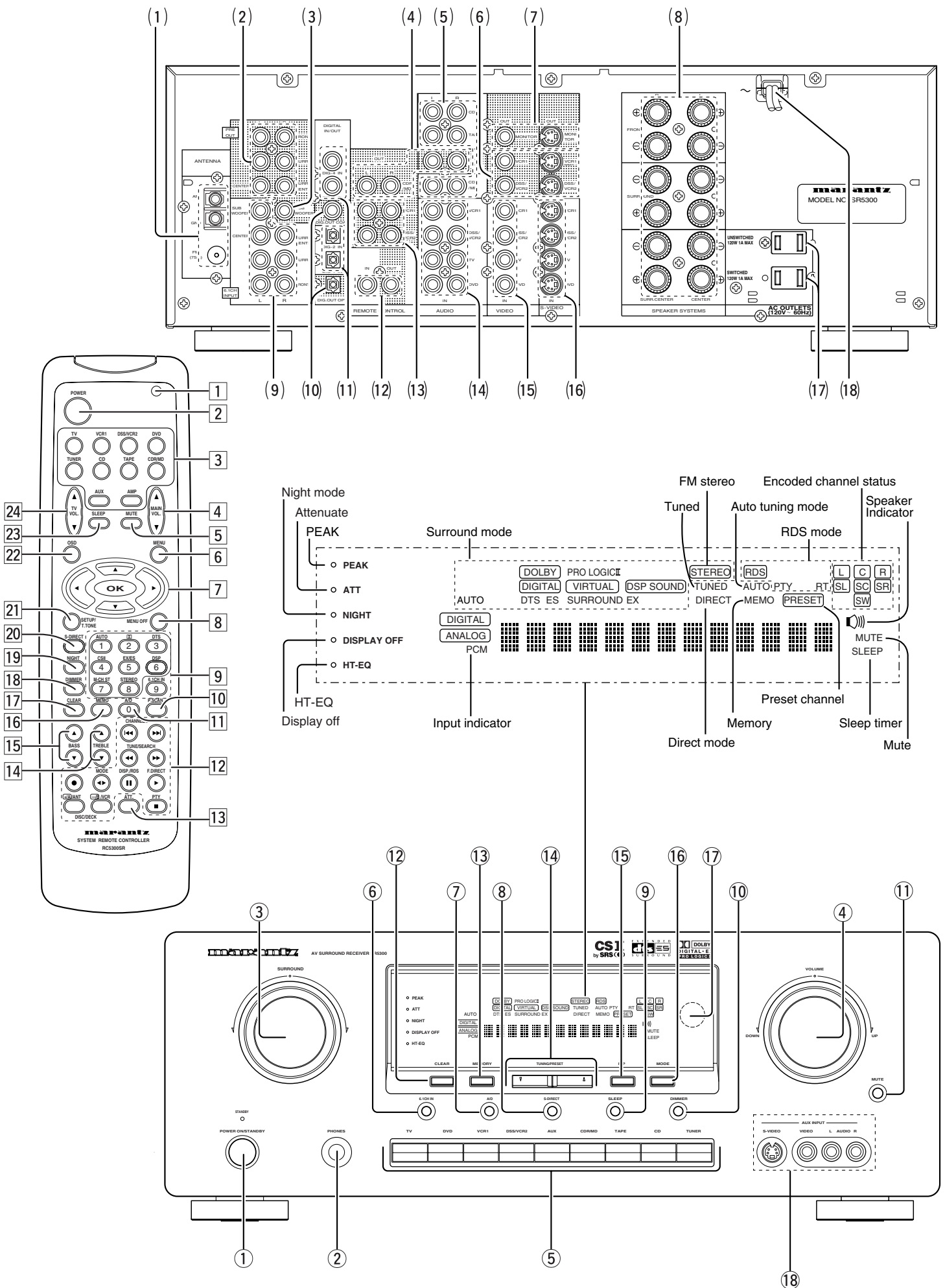
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INTRODUCTION

Thank you for purchasing the Marantz SR5300 DTS/Dolby Digital 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 SR5300.
As there are a number of connection and configurations 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 of DVD's, LD's, and CD's.

"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

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 SC (Surround Center) channel for surround playback with a total of 6.1 channels. DTS-ES Extended Surround includes two signal formats with different surround signal recording methods, as 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 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.

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

90 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 .

192 kHZ/24-BIT D/A CONVERTER FOR ALL 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; 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.

MULTI-CHANNEL 6.1CH DIRECT INPUT

Multi-channel (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, DSS, CD, CD-R or MD.
2 Digital outputs for connection to CD-R or MD.

30 STATION RANDOM ACCESS PRESET TUNING

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

ONSCREEN DISPLAY MENU SYSTEM

Easy to **use on-screen display menu system** in all video monitor output.

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FRONT PANEL FEATURES (SEE PAGE iii.)

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 this unit is in the standby mode, pressing one of the **FUNCTION SELECTOR** buttons also allows to turn the power on.

"When the STANDBY indicator lights up, the apparatus is NOT disconnected from the AC supply mains."

② PHONES jack for stereo headphones

Conventional dynamic headphones can be plugged in here.

Notes:

- When using headphones, the surround mode is switched automatically to STEREO, the sound from the speakers is muted and the " 🔊 " indicator is turned off.
- The surround mode returns to the previous setting as soon as the plug is removed from the jack.

③ SURROUND mode selector knob

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

④ VOLUME control knob

Adjusts the over all sound level. Turning the control clockwise increases the sound level.

⑤ Function selector buttons (Audio/ Video)

These buttons are used to select the sources.
The video function selector, such as TV, DVD , VCR1, DSS/VCR2, and AUX, selects video and audio simultaneously.
Audio function sources such as CD, TAPE , CDR/MD ,and TUNER 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.

⑥ 6.1CH IN button

Press this button to select the output of an external multi channel decoder.

⑦ 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 connected to a digital input.

⑧ S. (Source) DIRECT button

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

Notes:

- The surround mode is automatically switched to AUTO when the source direct function is turned on.
- Additionally, Speaker Configurations are fixed automatically as follow.
  Front SPKR = LARGE
  Center SPKR = LARGE
  Surround SPKR = LARGE
  Surround Center SPKR = YES
  Sub woofer = YES
- 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.

⑨ SLEEP (Sleep timer) button

Set the sleep timer function with this button .

⑩ DIMMER button

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

⑪ MUTE button

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

⑫ CLEAR button

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

⑬ MEMORY button

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

⑭ TUNING / PRESET UP and DOWN buttons

During reception of AM or FM, you can scan the other frequencies or select another preset station pressing these buttons.

⑮ 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.

⑯ (FM) 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.

⑰ Infrared sensor

This window receives infrared signals from the remote control unit.

⑱ AUX input jacks

These auxiliary video/audio input jacks accept the connection of a camcorder, portable VCR, etc.

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REAR PANEL CONNEC-TIONS (SEE PAGE iii.)

All connections to the rear panel should be made with the entire system powered off.
To avoid errors, it is advisable to connect one cable at a time between the various components.

(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 reception.

(2) PRE OUT jacks

Jacks for Front - L/R, Center,Surround and Surround center.
Use these jacks for connection to an external power amplifier.

(3) SUB WOOFER output jack

Connect to the input jack(s) of the power amplifier for subwoofer channel or powered subwoofer.

(4) Analog AUDIO outputs for audio recording equipment

TAPE and CD-R/MD
Connect each output to the audio inputs (REC in) of your recording equipment.

(5) Analog AUDIO inputs

CD, TAPE, and CD-R/MD
Connect the audio outputs of your source components to the input jacks on the receiver.

(6) VIDEO (VIDEO/S-VIDEO) outputs

VCR1, and DSS/VCR2
Connect each output to the video input (REC in) of your video recording equipment.

(7) TV MONI. (VIDEO/S-VIDEO) output jacks

Connect the TV MONI jack to your TV's video input (VIDEO IN) jack.
You can connect your video equipment with S-VIDEO jacks if possible, or the composite VIDEO jacks.
You must use the same type of connection from your video player into the receiver, and out of the receiver into your TV.
Both must be composite video or both must be S-Video. You cannot convert a signal from one type to the other.

(8) SPEAKER SYSTEMS terminals

FRONT Left & Right speakers output terminals
Connect to the front left & right speakers.
CENTER speaker output terminals
Connect to the center speaker.
SURROUND Left & Right speakers output terminals
Connect to the surround (rear) left & right speakers.
SURROUND Center speaker output terminals
Connect to the surround center speaker.

(9) 6.1 CH INPUT jacks

Connect to the outputs of DVD Audio player, SACD Multi channel player or an external multichannel decoder.

(10) DIGITAL outputs

Optical and Coaxial
Connect to the digital input of your digital recording equipment.

(11) DIGITAL inputs

Dig.1,2 (Optical) and Dig. 3, 4 (Coaxial)
Connect each input to the digital output of your source equipment.
Use the SETUP MAIN MENU to assign digital input to appropriate source. (see page. 16)
Note :
- The coaxial connections are not for AC-3 RF from the LD player, If you want to decode this type of signal, an external demodulator must be used.

(12) REMOTE CONTOROL IN/OUT terminals

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

(13) Analog AUDIO outputs for video recording equipment

VCR1, and DSS/VCR2
Connect each output to the audio inputs (REC in) of your video recording equipment.

(14) Analog AUDIO inputs for video source equipment

TV, DVD, VCR1, and DSS/VCR2
Connect each input to the audio outputs of your video source equipment.

(15) VIDEO inputs

TV, DVD, VCR1, and DSS/VCR2
Connect each input to the video outputs of your video source equipment.

(16) S-VIDEO inputs

TV,DVD, VCR1,and DSS/VCR2
Connect each input to the S-video outputs of your video source equipment.

(17) AC OUTLET

Connect the power cables of components such as a DVD and CD player to these outlets. Both SWITCHED and UNSWITCHED outlets are provided.
The one marked SWITCHED provides power only when the SR5300 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 SR5300 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 SR5300 is turned on.
- The capacity of this AC outlet is 120W. Do not connect devices that consume electricity more than the capacity to this AC outlet. If total power consumption of connected devices exceeds the capacity, protection circuit shuts down the power supply.

(18) AC IN

Connect to AC power outlet.
SR5300 can be powered by 120V AC only.

REMOTE CONTROL OPERATION

OPERATION

The provided remote control unit is a universal remote controller. The **POWER** button ②, numeric buttons ⑨ and control buttons ⑫ 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 ③ is pressed.

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

Press the **DVD** button ③ twice within 2 seconds.
The input selector of the SR5300 is switched to DVD and the remote control unit is set for control of the DVD player. Press the PLAY button on the remote controller .

FUNCTION AND OPERATION

① Transmitting indicator

Lights up during a button is pressed and an infrared signal is sending.

② (Main) POWER buttons

Press to switch the power of the SR5300 ON or OFF after pressing the **AMP** button ③.

③ Input selector buttons/ FUNCTION SELECTOR buttons (AUDIO/VIDEO INPUT)

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.

Note:

• **CDR/MD** button is set CDR function at initial. To switch MD function, press and hold down **CDR/MD** button and press **2** button ⑨.

• To return CDR function, press and hold down **CDR/MD** button and press **1** button ⑨.

④ MAIN VOLUME UP (▲) /DOWN (▼) buttons

Main volume control of the SR5300. The front, surround, center and subwoofer channel volumes controlled by these buttons simultaneously.

⑤ MUTE button

Muting button of the SR5300. Press this button decrease the sound temporarily . Press this button again to return to the previous sound.

⑥ MENU button

This button is used to enter the SETUP MAIN MENU.

⑦ Cursor buttons (◄, ►, ▲, ▼, OK)

Use these button when operating the SETUP MAIN MENU. See page 16.

⑧ MENU OFF button

This button is used to exit from the SETUP MAIN MENU.

⑨ Numeric buttons 1 to 9 (A, B, C ... Z, –) / Surround mode buttons

Numeric buttons

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 used to select the surround mode.

⑩ P.SCAN (preset scan) button (when TUNER mode is selected)

This button is used to start preset scan when SR5300 is selected TUNER mode.

⑪ 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.

⑫ 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.

For the controllable functions of each input function, please refer to following table.

	TV	VCR	DVD	DSS	TUNER	CD	TAPE	CDR	MD
⏮ CHANNEL/SKIP	CH–	PREV	PREV	CH–	CH–	PREV	PREV	PREV	PREV
⏭ CHANNEL/SKIP	CH+	NEXT	NEXT	CH+	CH+	NEXT	NEXT	NEXT	NEXT
◄◄ TUNE/SERCH	—	REWIND	REWIND	—	TUNING–	REWIND	REWIND	REWIND	REWIND
►► TUNE/SERCH	—	FF	FF	—	TUNING+	FF	FF	FF	FF
●	—	REC	—	—	—	—	REC	REC	REC
◄ ► MODE	—	—	—	—	MODE	—	DIRECTION	—	—
❚❚ DISP./RDS	CH DISPLAY	PAUSE	PAUSE	CH DISPLAY	—	PAUSE	PAUSE	PAUSE	PAUSE
► F.DIRECT	—	PLAY	PLAY	—	FRQ. DIRECT	PLAY	PLAY	PLAY	PLAY
+/A/ANT	VIDEO	TV/VCR	DISC +	DSS/VCR	—	DISC +	DECK A	—	—
–/B/VCR	VIDEO	TV/VCR	DISC +	DSS/VCR	—	DISC –	DECK B	—	—
■ PTY	—	STOP	STOP	—	—	STOP	STOP	STOP	STOP

⑬ ATT (attenuator) button

When the input signal is too high and the voice distorts even by throttling the SR5300 VOLUME control, turn on this function. "ATT" is indicated when this function is activated.

The input level is reduced. Attenuator is invalid for use with the output signal of "REC OUT".

⑭ TREBLE UP (▲) /DOWN (▼) buttons

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

⑮ BASS UP (▲) /DOWN (▼) buttons

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

⑯ MEMO button

Memory enable button for various preset functions.

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17 CLEAR button

This button is used to cancel for certain memory or programming operations.

18 DIMMER button

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

19 NIGHT button

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

20 S- (Source) DIRECT button

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

21 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 enter the test tone mode.

22 OSD button

When this button is pressed, the current setting are displayed on the TV monitor.

23 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.

24 TV VOLUME UP (▲) /DOWN (▼) buttons

These buttons increase or decrease TV's volume.

PROGRAMMING THE REMOTE CONTROLLER

The remote controller RC5300SR must be programmed to use the codes for your appliances of different brands. This is done by keying in a 4-digit code or by scanning the codes until the correct one is found. We recommend to using the 4-digit code. This mode is faster and more reliable. The code scanning method should be used only if you cannot find the code for one of your appliances. The codes are listed at the end of this book.

Important:
Use the remote control buttons for programming, not the buttons of the receiver or other appliances.

PROGRAMMING WITH THE 4-DIGIT CODE

1. Press and hold down the function button ③ for the appliance which should be controlled and press **SETUP** ㉑ until the indicator ① blinks twice.

2. Press the 4-digit code for appliance (code table at the end of this book)

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

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

SCANNING THE CODE TABLE

1. Switch on the appliance which should be controlled.

2. Press and hold down the function button ③ for appliance which should be controlled and press **SETUP** ㉑ until the indicator ① blinking twice.

3. Press the code **9** - **9** - **1**.
The indicator will blink twice.

4. Aim the remote control at the appliance and slowly alternate between pressing **POWER** ② and the function button ③ for the appliance.

5. Stop when the appliance turns off.

6. Press **SETUP** ㉑ once to lock in the code.

CHECKING THE CODE

1. Press and hold down the function button ③ for appliance which should be controlled and press **SETUP** ㉑ until the indicator ① blinking twice.

2. Press the code **9** - **9** - **0**.
The indicator will blink twice.

3. To view the code for first digit, press **1** once.
Wait 3 seconds, count the indicator blinks (e.g. 3 blinks = 3) and write down the number.
Note:
If a code digit is "0", the indicator will not blink.

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

Once you have found and the codes for your various appliances, you may want to write them down here.

TV _____

VCR _____

DSS _____

DVD _____

CD _____

TAPE _____

CDR _____

MD _____

OPERATION OF REMOTE CONTROL UNIT

REMOTE CONTROL

The distance between the transmitter of the remote control unit and the IR SENSOR of the SR5300 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

SR5300

Approx. 5 m

60°
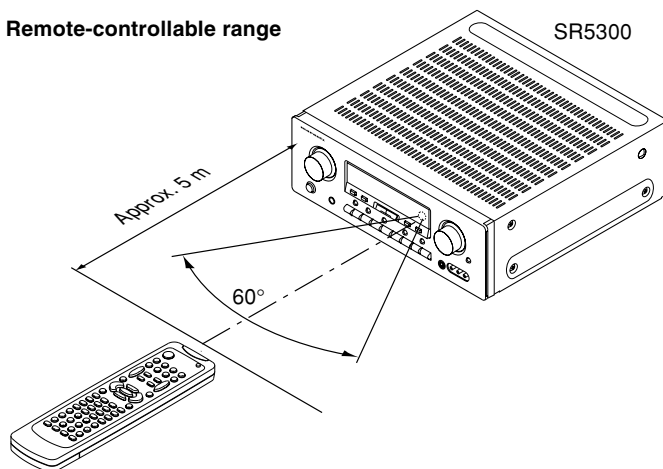
Remote control unit (RC5300SR)

LOADING BATTERIES

The life of the batteries used with the remote control unit is about 4 months with normal use. Also be sure to replace batteries earlier when you notice that they are getting weak.

1. Remove the back cover.
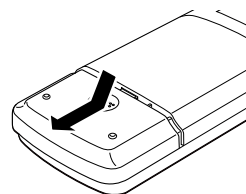
2. Insert the new batteries (AAA type) with correct (+) and (–) polarity.
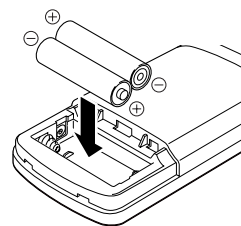
3. Close until it clicks.
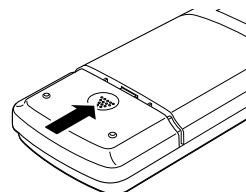
CONNECTIONS

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 center 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.

SUB WOOFER
LEFT   CENTER   RIGHT
SURROUND-L   SURROUND-R
SURROUND CENTER
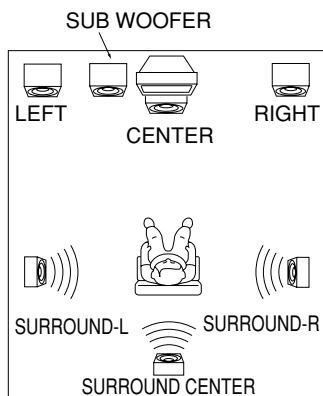
Front left and right speakers
We recommend to set the front L and R speakers with 45-60 degrees from the listening position.

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 center speaker
Place the speaker right 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 center speaker
Place the surround left, right and surround center speakers higher to your ears 2 Ft. – 3 Ft. (70cm – 1m). Also place the speakers on the same height.

2 Ft.
~ 3 Ft.
(70cm
~ 1m)
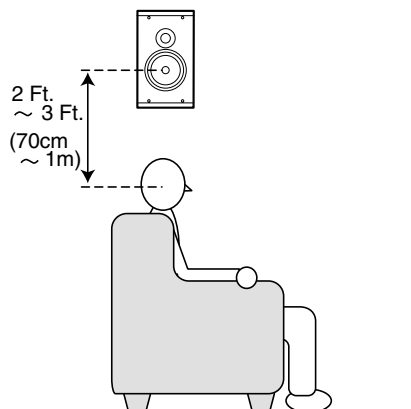
Note;

• 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.

9

CONNECTING SPEAKERS
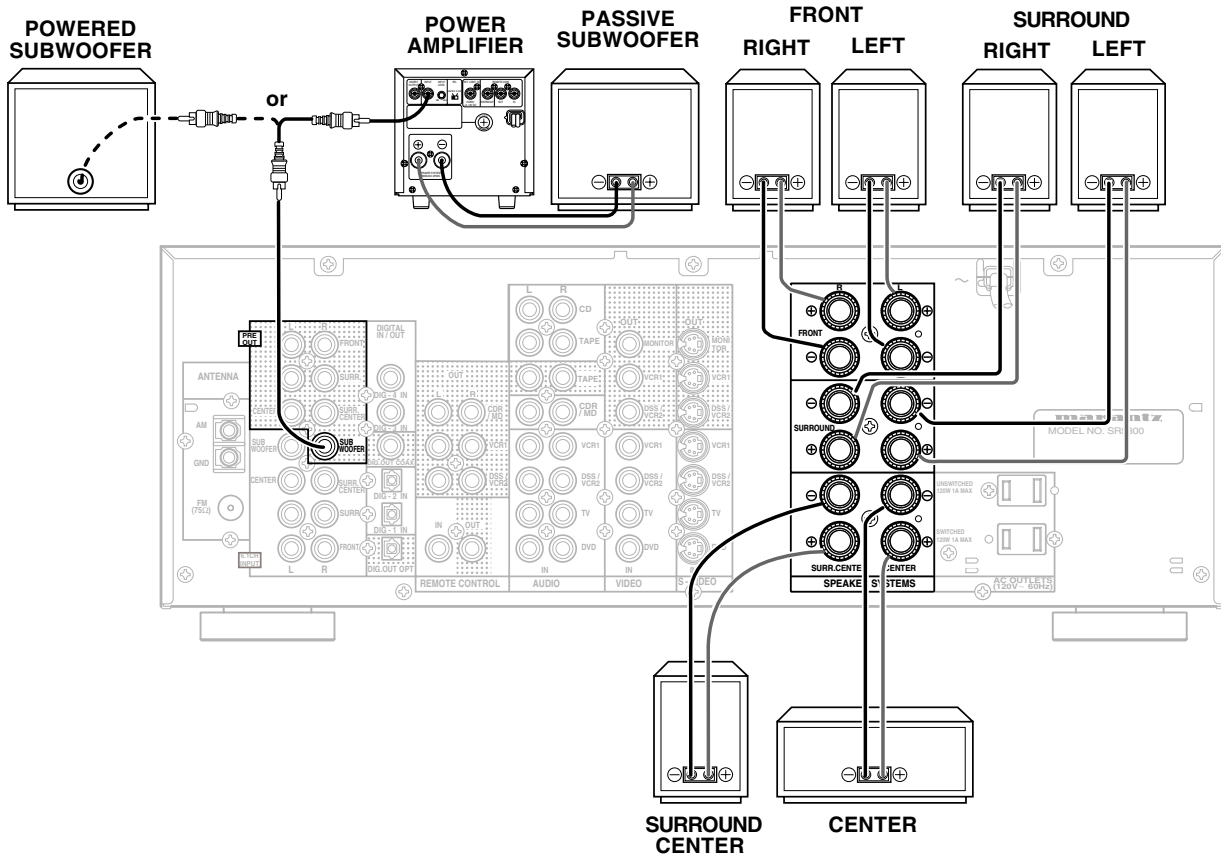
CONNECTING SPEAKER WIRE

1. Strip away approx. 3/8 inch (10 mm) of wire insulation.

2. Twist the bared wire ends tight to prevent short circuits.

3. Loosen the knob by turning 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.
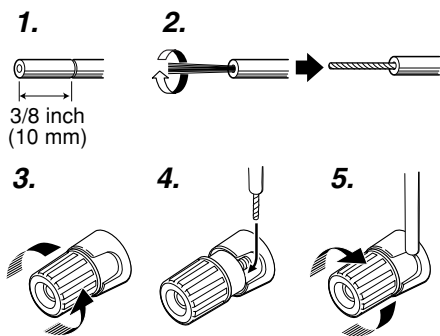
CAUTION

• 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.
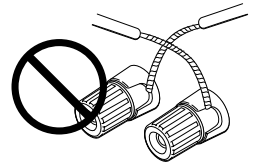
NOTE

• 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.

10

CONNECTING AUDIO COMPONENTS

CD RECORDER / MD DECK

CD PLAYER

TAPE DECK

ANALOG AUDIO

DIGITAL AUDIO
(COAXIAL)

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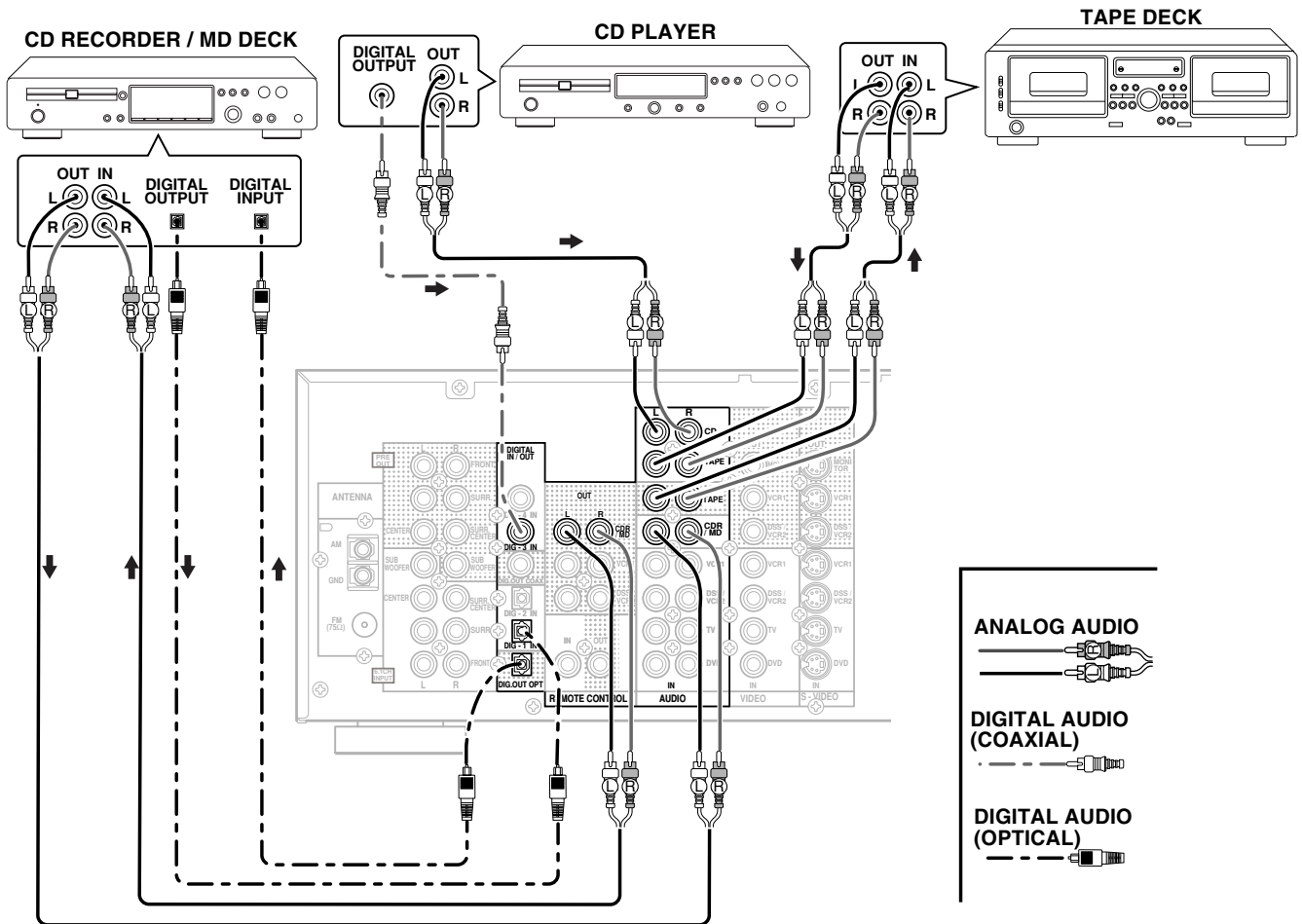
The output audio signal from the TAPE OUT jack and the CD-R/MD OUT jack is the sound source currently selected.

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 : optical) for DIG-3,4 input jacks.

• You can designate the input for each digital input/output jacks according to your component. See page 16.

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.

11

CONNECTING VIDEO COMPONENTS

VCR

MONITOR

SATELLITE TUNER

AUDIO OUT AUDIO IN VIDEO OUT IN S-VIDEO OUT IN

L R L R

VIDEO IN S-VIDEO IN
CVBS

DIGITAL OUT AUDIO OUT AUDIO IN VIDEO OUT IN S-VIDEO OUT IN

L R L R

DIGITAL IN/OUT

DIG-1 IN

DIGITAL IN/OUT

DIG-2 IN

REMOTE CONTROL

REMOTE CONTROL

VIDEO

S-VIDEO

ANALOG AUDIO

DIGITAL AUDIO (COAXIAL)

DIGITAL AUDIO (OPTICAL)

DIGITAL OUT AUDIO OUT VIDEO OUT S-VIDEO OUT

L R

DVD PLAYER

TV

AUDIO OUT VIDEO OUT S-VIDEO OUT

L R

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.

- If you connect the S-VIDEO signal to the S-VIDEO jack on this unit, it is not necessary to connect the conventional video signal to the VIDEO(composite) jack. If you use both video inputs, this unit gives priority to the S-VIDEO signal.
- 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.
- This unit has the "TV-AUTO ON/OFF" function to turn ON or OFF automatically the power by the incoming video signal from VIDEO jacks.
- 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.

12

ADVANCED CONNECTING

DVD AUDIO PLAYER or SACD MULTI CHANNEL PLAYER

POWER AMPLIFER
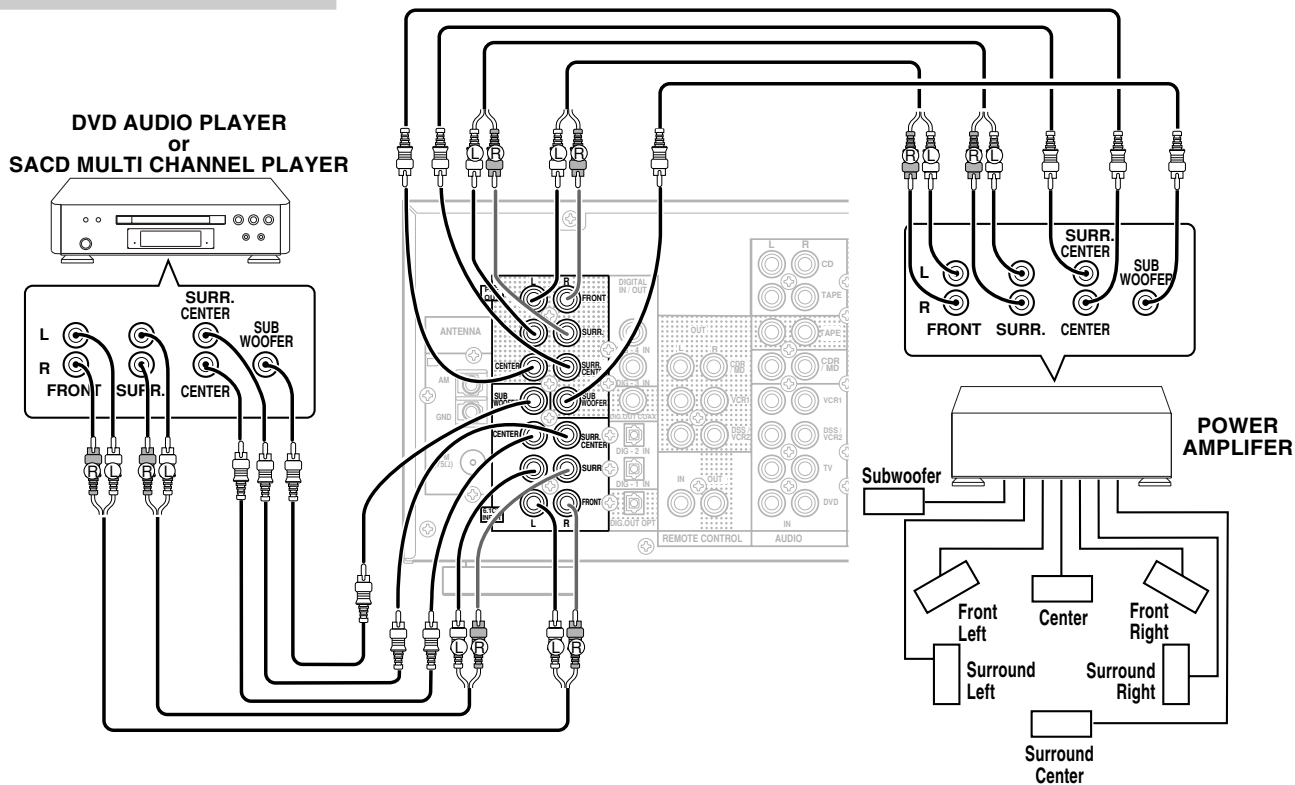
CONNECTING MULTI CHANNEL AUDIO SOURCE

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 19.

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
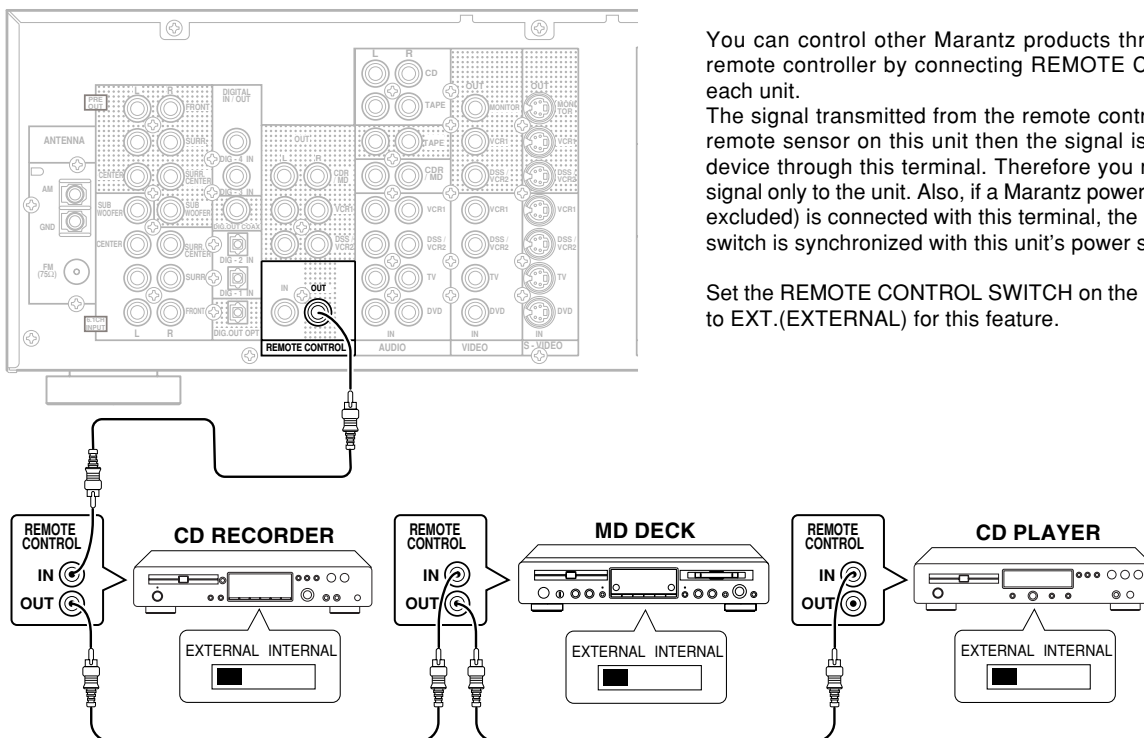
You can control other Marantz products through this unit with the remote controller by connecting REMOTE CONTROL terminals on each unit.
The signal transmitted from the remote controller is received by the remote sensor on this unit then the signal is sent to the connected device through this terminal. 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 power switch is synchronized with this unit's power switch.

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

CD RECORDER   **MD DECK**   **CD PLAYER**

13

CONNECTING THE ANTENNA TERMINALS

FM FEEDER
ANTENNA

FM EXTERNAL
ANTENNA

AM LOOP
ANTENNA

AM EXTERNAL
ANTENNA
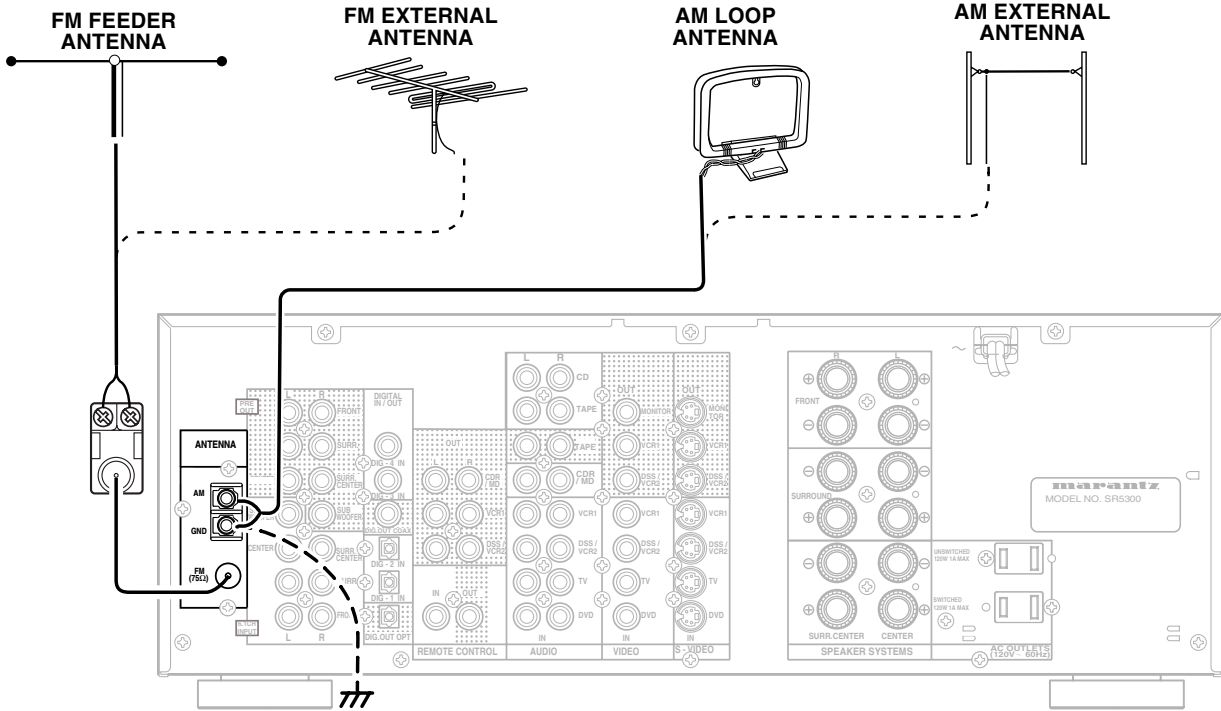
ASSEMBLING THE AM LOOP ANTENNA

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 ANTENNA CABLE TO THE 75/300 Ω ANTENNA ADAPTER

Connecting the 300 Ω ribbon wire
Loosen the screws and wrap the wire around these screws.
Then tighten the screws with a screwdriver.
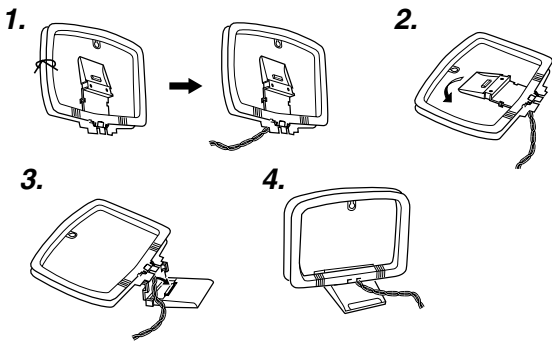
CONNECTING THE SUPPLIED ANTENNAS

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

Connecting the supplied AM loop antenna
The supplied AM loop antenna is for indoor use only.
Set it in the direction and position 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. Loosen the AM antenna terminal screw counterclockwise.

2. Insert the bared wire into the antenna terminal.

3. Tighten the screw by turning clockwise to secure the wire

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.

ON SCREEN DISPLAY MENU SYSTEM

The SR5300 incorporates an on-screen menu system, which makes various operations possible by using the cursor (▲, ▼, ◄ , ►) and **OK** buttons on the remote control unit.

Notes:

• To view the on-screen displays, make certain you have made a connection from the Monitor Out jack (VIDEO or S-VIDEO) on the rear panel to the composite, S-Video input of your TV or projector. (see page 13)

• In order to view the SR5300's displays, the correct video source must be selected on the video display.

1. Select the **AMP** mode in remote controller.

2. Press **MENU** button on the remote controller to display the "SETUP MAIN MENU" of the OSD menu system. There are 7 items in the SETUP MAIN MENU.

3. Select a desired sub-menu with ▲ or ▼ cursor button, and press the **OK** button to entry.

The display will change to selected sub-menu.

You can lock the condition of setup to each sub-menu with ◄ or ► cursor buttons.

Notes: If you desire to adjust any sub-menu, you need to set UNLOCK.

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

```
        SETUP MAIN MENU

  ►1. INPUT SETUP    :UNLOCK
   2. SPEAKER SETUP:UNLOCK
   3. PREFERENCE    :UNLOCK
   4. SURROUND      :UNLOCK
   5. PRO LOGIC 2   :UNLOCK
   6. CS2           :UNLOCK
   7. 6.1 CH IN     :UNLOCK
                       EXIT
```

```
     1 INPUT SETUP

  ►CD  :DIG3  TV  :ANA
   TAPE :ANA   DVD :DIG4
   CD-R :DIG1  VCR1 :ANA
              DSS :DIG2



   MAIN            EXIT
```

```
     2-1 SPEAKERS SIZE

  ►SUBWOOFER      : YES
   FRONT L/R      : LARGE
   CENTER         : SMALL
   SURROUND L/R   : SMALL
   SURR.CENTER    : YES


   MAIN         NEXT EXIT
```

```
     6 CS2 PARAMETER

  ►TRUBASS      : 0
   SRS DIALOG   : 0




   MAIN            EXIT
```

```
     3 PREFERENCE

  ►TV-AUTO    : DISABLE
   OSD INFO   : ENABLE




   MAIN            EXIT
```

```
     2-2 SPEAKERS DISTANCE

  ►FRONT L/R: 10 ft  3.0 m
   CENTER  : 10 ft  3.0 m
   SURR. L : 10 ft  3.0 m
   SURR. R : 10 ft  3.0 m
   SUB W   : 10 ft  3.0 m
   SURR. C : 10 ft  3.0 m

   MAIN   RTN   NEXT  EXIT
```

```
     7 6.1 CH INPUT LEVEL

  ►FRONT L   :    0 dB
   CENTER    :    0 dB
   FRONT R   :    0 dB
   SURR. R   :    0 dB
   SURR. C   :    0 dB
   SURR. L   :    0 dB
   SUB W     :    0 dB
   MAIN            EXIT
```

```
     2-3 SPEAKERS LEVEL
  ►TEST MODE   :  MANUAL
   FRONT L    :    0 dB
   CENTER     :    0 dB
   FRONT R    :    0 dB
   SURR. R    :    0 dB
   SURR. C    :    0 dB
   SURR. L    :    0 dB
   SUB W      :    0 dB
   MAIN   RTN        EXIT
```

```
     5 PL2-MUSIC PARAMETER

  ►PARAMETER   : DEFAULT

   PANORAMA    : OFF
   DIMENSION   : 4
   CENTER WIDTH : 0


   MAIN            EXIT
```

15

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.

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

```
     1  INPUT  SETUP

►CD     :DIG3   TV    :ANA
 TAPE   :ANA    DVD   :DIG4
 CD-R   :DIG1   VCR1  :ANA
                DSS   :DIG2



 MAIN                  EXIT
```
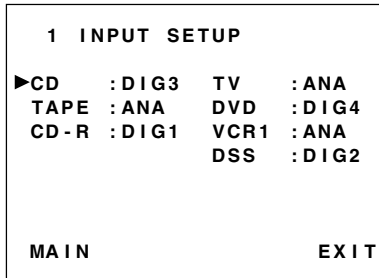
2. To select the input source, press ▲ or ▼ cursor button.
3. To select the digital input jack , press ◄ or ► cursor buttons.

Select "**Dig x**" for input sources, for fixed the digital input jack.

Select "**ANA**" for input sources for which no digital input jacks are used.

4. If you finish the setup in this sub-menu, move cursor to MAIN with ▲ or ▼ cursor buttons and press **OK** button.

Notes:

- The TUNER and AUX are fixed to the analog input, and cannot be selected for any digital input.
- When a DTS-LD or DTS-CD is playing, this setup is not available. This is to avoid noise being generated from the analog input.

SPEAKER SETUP

After you have installed the SR5300, 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 100 Hz 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.

```
    2-1 SPEAKERS  SIZE

►SUBWOOFER        : YES
 FRONT  L/R       : LARGE
 CENTER           : SMALL
 SURROUND  L/R    : SMALL
 SURR.CENTER      : YES


 MAIN             NEXT EXIT
```
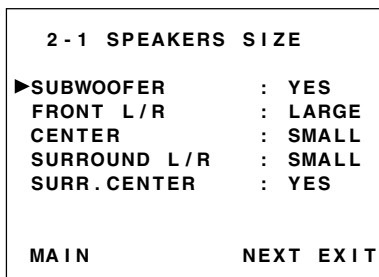
1. Select "**SPEAKER SETUP**" in MAIN SETUP MENU with ▲ or ▼ cursor button, and press the **OK** button.
2. To select the each speaker , press ▲ or ▼ cursor button.

3. To select the setting of size to each speaker, press ◄ or ► cursor buttons.

4. If you finish these setup, move cursor to "NEXT" with ▲ or ▼ cursor button and then press **OK** button to go to next page.

SUBWOOFER:
 YES: Select when a subwoofer is connected.
 NONE: Select when a subwoofer is not connected.

FRONT L/R
LARGE: Select if the front speakers are large sized.
SMALL: Select if the front speakers are small sized.

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

CENTER
 NONE: Select if no center speaker is connected.
LARGE: Select if the center speaker is large sized.
SMALL: Select if the center speaker is small sized.

SURROUND L/R
 NONE: Select if no surround left and right speakers are connected.
LARGE: Select if the surround left and right speakers are large sized.
SMALL: Select if the surround left and right speakers are small sized.

SURR. CENTER
 YES: Select when a surround center is connected.
 NONE: Select when a surround center is not connected.

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

16

SPEAKER DISTANCE (TIME ALIGNMENT)

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 SR5300 and today's sound systems are able to produce.

Note that the speakers that you selected "**NONE**" for in the Speaker Config sub-menu will not appear here.

(There are several useful books and special DVD and LD's available to guide you through proper home theater configuration. If you are unsure, have your Marantz dealer perform the installation for you. They are trained professionals familiar with even the most sophisticated custom installations.)

```
   2 - 2  SPEAKERS  DISTANCE

►FRONT L/R: 10 ft    3.0 m
 CENTER    : 10 ft    3.0 m
 SURR. L   : 10 ft    3.0 m
 SURR. R   : 10 ft    3.0 m
 SUB W     : 10 ft    3.0 m
 SURR. C   : 10 ft    3.0 m

 MAIN    RTN    NEXT  EXIT
```

1. To select the each speaker , press ▲ or ▼ cursor button.

2. To set the distance for each speaker , press the ◄ or ► cursor buttons.

3. If you finish these setup, move cursor to "**NEXT**" with ▲ or ▼ cursor button and then press **OK** button to go to next page.

FRONT L/R : Set the distance from the front left/right 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).

CENTER : 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).

SURR. L : Set the distance from the surround left 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).

SURR. R : Set the distance from the surround right 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).

SUB W : 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).

SURR. C : Set the distance from a surround center 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).

Notes

- Speakers that you selected "NONE" for in the Speaker Size menu will not appear.

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.

```
   2 - 3  SPEAKERS  LEVEL
►TEST MODE    :   MANUAL
 FRONT L      :     0  dB
 CENTER       :     0  dB
 FRONT R      :     0  dB
 SURR. R      :     0  dB
 SURR. C      :     0  dB
 SURR. L      :     0  dB
 SUB W        :     0  dB
 MAIN    RTN          EXIT
```

TEST MODE : Selects "**MANUAL**" or "**AUTO**" for generating mode of test tone ◄ or ► cursor button.

If you select "**AUTO**" , the test tone will be cycled through in a circular pattern which is Left → Center → Right → Surround Right → Surround Center → Surround Left → Subwoofer → Left →.. 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.

If you select "**MANUAL**", adjust the output level of each speaker as follows.

1. When you move cursor to FRONT L by pressing ▼ cursor button, the SR5300 will emit a pink noise from the front left speaker.

At this time, the master volume automatically increases to the reference level (0 dB).

Remember the level of this noise and then press the ▼ cursor button.

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

The SR5300 will now 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.

3. Press the ▼ cursor button again. The SR5300 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.

If you finish these setup, press **OK** button, the cursor will move to "**MAIN**" and then press **OK** button to go to SETUP MAIN MENU.

Notes:

- Speakers that you selected "NONE" for in the Speaker Size 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-INPUT sub menu. (See page 19).
- In order to correctly set the output levels, use a hand-held Sound Pressure Level meter (SPL), set to C-Weighting and Slow averaging. A Radio Shack® SPL meter (catalogue number 330 - 2055) works well. Using the internal channel noise generators, set each channel so that you read 75 dB SPL from each channel when seated at the listening position.

PREFERENCE

```
   3  PREFERENCE

►TV-AUTO        :  DISABLE
 OSD INFO       :  ENABLE




 MAIN                    EXIT
```
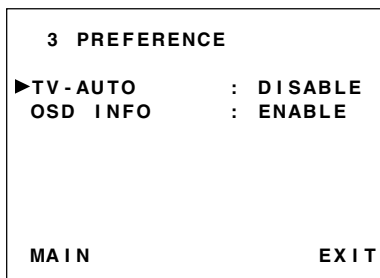
1. Select "**PREFERENCE**" in SETUP MAIN MENU with ▲ or ▼ cursor button, and press the **OK** button.

2. To select a desired content, press ▲ or ▼ cursor button.

TV AUTO: Select the TV AUTO ON/OFF function to enable or disable with ◄ or ► cursor button.
(refer to page 21)
OSD INFO: Select the OSD information function to enable or disable with ◄ or ► cursor button.
If you select "**ENABLE**", SR5300 will display the status of the feature (Volume up/down, input select, etc..) on the TV monitor. But if you do not desire this information, select "**DISABLE** ".

If you finish the setup in this item, move cursor to "**MAIN**" with ▲ or ▼ cursor buttons and press **OK** button.

SURROUND

```
   4  SURROUND
►SURR.  MODE  :  AUTO
 HT-EQ          :    OFF
 LFE LEVEL      :    0  dB
 CENTER         :    0  dB
 SURR. R        :    0  dB
 SURR. C        :    0  dB
 SURR. L        :    0  dB
 SUB W          :    0  dB
 MAIN                    EXIT
```
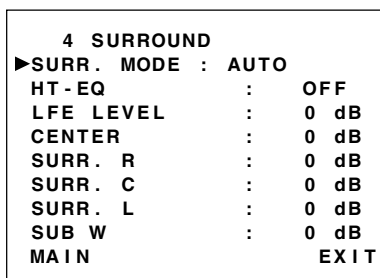
1. Select "**SURROUND**" in SETUP MAIN MENU with ▲ or ▼cursor button, and press the **OK** button.

2. To select a desired content , press ▲ or ▼ cursor button.

SURR-MODE : Select the desired surround mode with ◄ or ► cursor button.
HT-EQ : Select to active the HT (Home Theater)-EQ with ◄ or ► cursor button.
This mode compensates for the audio portion of a movie sounding "bright".
This equalizer is effective in Auto, DOLBY, DTS and SEREO mode.
When this mode is activated, "HT-EQ" indicator lights up.
LFE LEVEL : 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 ◄ or ► cursor button.
The level is ordinarily set to 0 dB except DTS-Music mode. In the DTS-Music mode, default level is set to -10 dB.
CENTER : Adjust the volume level of the center speaker between -10 dB and +10 dB in 1 level interval with ◄ or ► cursor button.
SURR. R : Adjust the volume level of the surround right speaker between -10 dB and +10 dB in 1 level interval with ◄ or ► cursor button.
SURR. C : Adjust the volume level of the surround center speaker between -10 dB and +10 dB in 1 level interval with ◄ or ► cursor button.

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

If you finish the setup in this item, move cursor to "**MAIN**" with ▲ or ▼ cursor buttons and press **OK** button.

Note:
• CENTER, SURR.R, SURR. C, SURR. L, and SUB W volume level are synchronized with SETUP MAIN MENU 2-3 Speaker Level.

PL2 (PRO LOGIC Ⅱ) MUSIC PARAMETER

Pro Logic Ⅱ-Music mode creates a rich and enveloping surround ambience from stereo sources such as CDs.
In this mode, SR5300 includes three controls to fine-tune the soundfield as follow.

```
   5  PL2-MUSIC PARAMETER

►PARAMETER      :  DEFAULT

 PANORAMA       :  OFF
 DIMENSION      :  4
 CENTER WIDTH   :  0


 MAIN                    EXIT
```
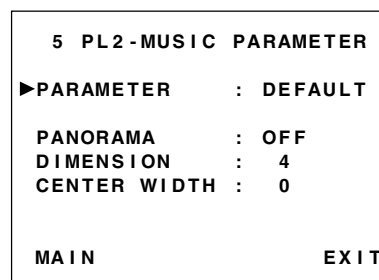
Select "**PRO LOGIC 2**" in SETUP MAIN MENU with ▲ or ▼ cursor button, and press the **OK** button.

PARAMETER: Select "**DEFAULT**" or "**CUSTOM**" with ◄ or ► cursor button
If you select "**CUSTOM**", you can adjust three parameters as follow
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.
CENTER 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.

If you finish the setup in this menu, move cursor to "**MAIN**" with ▲ or ▼ cursor buttons and press **OK** button.

CS2 (CIRCLE SURROUND II) PARAMETER

```
   6 CS2 PARAMETER

▶TRUBASS       :   0
 SRS DIALOG    :   0




 MAIN                EXIT
```
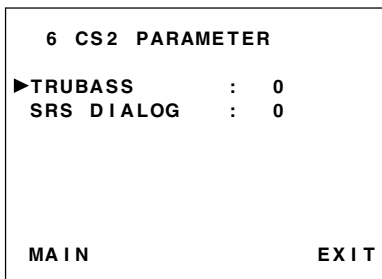
1. Select "**CS2**" in SETUP MAIN MENU with ▲ or ▼ cursor button, and press the **OK** button.

2. To Select desired contents as below, press ▲ or ▼ cursor button

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.

If you finish the setup in this menu, move cursor to "MAIN" with ▲ or ▼ cursor buttons and press **OK** button.

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.

```
   7 6.1 CH INPUT LEVEL

▶FRONT L       :    0  dB
 CENTER        :    0  dB
 FRONT R       :    0  dB
 SURR. R       :    0  dB
 SURR. C       :    0  dB
 SURR. L       :    0  dB
 SUB W         :    0  dB
 MAIN                EXIT
```
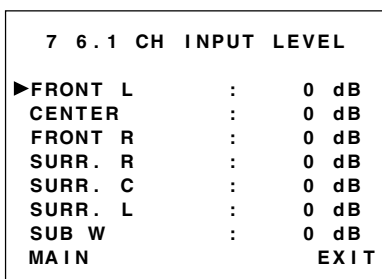
1. Select "**6.1CH IN**" in SETUP MAIN MENU with ▲ or ▼ cursor button, and press the **OK** button.

2. To Select desired channel , press ▲ or ▼ cursor button.

3. Using the ◄ or ► cursor buttons, adjust the volume level of each channel.

4. If you finish the setup in this menu, move cursor to "MAIN" with ▲ or ▼ cursor buttons and press **OK** button.

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

BASIC OPERATION

LISTENING TO THE TUNER

MANUAL TUNING

1. To select the tuner as the source, press the **TUNER** button ⑤ on the front panel or press the **TUNER** button ③ on the remote.

2. Press the **TUNER** button ⑤ on the front panel or press the **TUNER** button ③ on the remote to select the desired frequency band if required.

3. Press the **F/P** button ⑮ on the front panel to display the frequency.

4. Press the **TUNING/PRESET ▲** or **▼** button ⑭ on the front panel or press the ◄◄ or ►► button ⑫ on the remote.

5. If FM is selected, press the **MODE** button ⑯ on the front panel or press the **MODE** button ⑫ on the remote control to select the desired audio mode.

(FM) MODE BUTTON OPERATION

When "**AUTO**" indicator is on in the display, FM stations that broadcast in stereo will be received in stereo and the "STEREO" indicator lights.
When "**AUTO**" indicator is off, all the FM stations will be received in mono regardless of whether or not they are broadcasting in stereo.

AUTO TUNING (USING THE SR5300)

1. Press the **F/P** button ⑮ on the front panel to display the frequency.

2. Press the **TUNING/PRESET ▲** or **▼** button ⑭ on the front panel for more than 1 second to start the Auto tuning function.

AUTO TUNING (USING THE REMOTE CONTROL UNIT)

Press ◄◄ or ►► button ⑫ for more than 1 second to start the Auto tuning function.

PRESET TUNING

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.

1-a. Manual Presetting (Using the SR5300)

1. Refer to the "MANUAL TUNING" or "AUTO TUNING" section above to tune in a desired station.

2. Press the **MEMORY** button ⑬. "MEMO" indicator starts blinking on the display.

While "MEMO" is still blinking (approx. 5 seconds), select the preset number by pressing the **TUNING/PRESET ▲** or **▼** button ⑭ then press the **MEMORY** button ⑬ again.

3. When a number has been properly input, "MEMO" indicator stops blinking and goes out.

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

1-b. Manual Presetting (Using the remote control unit)

1. Tune in a desired station.

2. Press the **MEMO** button ⑯.

3. Enter the desired preset number with ten keypad ⑨.

4. Then, press **MEMO** button ⑯ again to store.

2. Auto Presetting

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

1. Press and hold down the **MEMORY** button ⑬ and **TUNER** button ⑤ simultaneously, auto presetting will start.

2. "MEMO" will blink on the display.

3. Each time the tuner finds a station, the scanning will pause and memory. Auto presetting will starts.

4. Operation stops automatically when all 30 preset memory positions are filled or when auto scanning attains the highest end of all bands.

To stop the auto preset function at anytime, press the **CLEAR** button ⑫.

3. Recalling a Preset Station

1. Press the **F/P** button ⑮ to change the display to preset.

2. Select the desired preset station by pressing **TUNING/PRESET ▲** or **▼** button ⑭ on the front panel or press **CHANNEL** button ⑫ on the remote.

Note:

• To directly access the preset stations using the numeric keypad, select the desired preset station by entering one or two digits using the numeric keypad ⑨.

• To return to the Manual Tuning mode, press the **F/P** button ⑮.

4. Preset Scan Tuning (Using the remote control unit)

1. Press the **P.SCAN** button ⑩ on the remote control. (The preset station with the smallest preset number is recalled first. If no stations have been preset, "NO PRESET" shows in the display and the unit returns to the previous mode.)

2. Preset stations are recalled in sequence (CH-1 → CH-2, etc.) for 5 seconds each. Preset numbers that do not contain stations are skipped.

3. You can fast forward the preset stations by pressing the **CHANNEL ►►I** button ⑫ continuously.

When the desired preset station is received, cancel the preset scan operation by pressing the **CHANNEL I◄◄** button ⑫ or the **CLEAR** button ⑰.

5. Clearing 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 **CLEAR** button ⑫ on the front panel or **CLEAR** button ⑰ on the remote control unit for 3 seconds or more.

"CLEAR" appears on the display to indicate that the specified preset number has been cleared.

6. Frequency Direct Call

1. Press **F.DIRECT** button ⑫ in the TUNER mode on the remote controller.

2. Display shows " FM– – –.– –MHz" (at FM mode).

3. Input your desired frequency with tenkeypad buttons on the remote controller.

Eg) 98.1 MHz

Press **9**, **8**, **1** and **0**

4. Display fixed 98.10 MHz and broadcast station received.

STATION NAME PRESET (On PRESET display mode)

The station name preset function allows the name of each preset channel to be entered using alphanumeric characters. The Station Name button is valid only in the tuner mode. Before station name preset operation, store stations with the preset memory operation.

1. Press the **MEMORY** button ⑬ on the front panel or **MEMO** button ⑯ on the remote for more than 3 seconds.

2. The left most column of the station name indicator flashes, indicating the character entry ready status.

[Operation (Using the SR5300)]

3. When you press the **TUNING/PRESET ▲** or **▼** buttons ⑭ is turned, alphabetic and numeric characters will be displayed in the following order:

A → B → C ...Z → 1 → 2 → 3..... 0 → − → + → / → (Blank) → A
              UP →
              ← DOWN

4. After selecting the first character to be entered, press the **MEMORY** button ⑬. The entry in this column is fixed and the next column starts to flash. Fill the next column and press the **MEMORY** button ⑬ for more than 1 second to confirm the entry.

[Operation (Using the remote control unit)]

First, press the **TUNER** button ③ on the remote control unit.

(This operation is not necessary if the remote control unit has already been operated in the TUNER mode.)

3. Enter the character using the ten keypad ⑨. For example, to enter "**A**":

1) Press the "**1**" button. "**A**" appears on the display column.

2) Every time the 1 button is pressed, the displayed character changes in the order: **A → B → C → 1 → A...**

Pressing buttons other than the "**1**" button cause different characters to be displayed in a similar way, so that other alphanumeric characters can be entered. To enter a blank or space, press the "**9**" button.

4. When the desired character is displayed, press the **MEMO** button ⑯ to confirm the entry in this column and move to the next column. After having filled all of the 8 columns, press the **MEMO** button ⑯, for more than 1 second to confirm the entry.

PLAYBACK OPERATION

NORMAL PLAYBACK

1. Press the **POWER** button ① / ②.

2. Press the **FUNCTION SELECTOR** button ⑤ on the front panel or press the **FUNCTION** button ③ on the remote unit to select an input source.

3. Turn the **SURROUND MODE SELECTOR** knob ③ on the front panel or Surround mode buttons ⑨ in the AMP MODE on the remote unit to select the desired surround mode.

4. Adjust the volume level using the **VOLUME** knob ④ on the front panel or press the **MAIN VOL.** button ④ on the remote. If necessary, adjust the tone, press the **TREBLE▲**, **TREBLE▼** ⑭ and **BASS▲**, **BASS▼** ⑮ on the remote unit.

Note:
• In case of remote control operation, press one of the function buttons twice within 2 seconds to select the function.

LISTENING TO A DIFFERENT AUDIO SOURCE WHILE WATCHING A VIDEO SOURCE (Using the remote control unit)

1. Select one of the following video sources
   TV, DVD, VCR1, DSS/VCR2 or AUX.

2. Next, select one of the following audio sources
   FM, AM, CD, TAPE, or CDR/MD.

TV AUTO ON/OFF FUNCTION

This function allows the component connected to the TV IN jack to control the power (ON/OFF) to the SR5300.

AUTO POWER ON

1. Be sure TV auto mode is enable. (Refer page 18 : PREFERENCE)

2. Connect your TV TUNER (etc) to the TV IN terminal.
   Be sure to connect the video input.

3. Turn OFF the power to the TV TUNER and the SR5300 will be in standby mode.

4. Turn ON the TV TUNER and tune in a receivable station.

5. When the station is received, the SR5300 turns ON and TV is selected automatically.

AUTO POWER OFF

1. In the above situation, turn the TV TUNER OFF or select a channel that does not contain any broadcast.

2. The SR5300 switches to STANDBY after approximately 5 minutes.

Note:
• AUTO POWER OFF is canceled if the **FUNCTION SELECTOR** button ⑤ is set to a source other than TV. The function reactivates when TV is selected again.

Caution:
• Some TV broadcasts may cause the TV AUTO FUNCTION to turn on.
• S-Video termianl does not support "TV AUTO ON/OFF" function.

SETTING THE SLEEP TIMER

Set the sleep timer while the power is turned on.

1. Turn the power ON and press the **SLEEP** button ⑨ / ㉓.

2. Press the **SLEEP** button ⑨ / ㉓ the number of times to set the desired sleep time in minutes.

Each press of the **SLEEP** button ⑨ / ㉓ or changes the display in the following order:

```
10 ———→ 20 ———→ 30 ———→ 40 ———→ 50
↑                                      ↓
(OFF)←— 90 ←——— 80 ←——— 70 ←——— 60
```
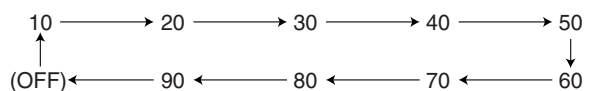
The unit will shut off in the number of minutes indicated.

* While the sleep timer is activated, the remaining time can be displayed for approximately 2 seconds by pressing the **SLEEP** button ⑨ / ㉓.

* To cancel the Sleep timer, press the **SLEEP** button ⑨ / ㉓ until the display shows to "**SLEEP OFF**" and the SLEEP indicator disappear.

ON SCREEN DISPLAY INFOMATION

The on-screen display, which can be activated by the Main unit or remote, appears on the TV screen to show the current setting status of the SR5300.

1. GENERAL INFORMATION

When the **OSD** button 22 is pressed, the current setting are displayed on the TV monitor.
This display disappears automatically in about 5 seconds after the button is pressed.

```
VIDEO        :  DVD
AUDIO        :  DVD
DIGITAL      :  DIG4
SURR—MODE    :  AUTO



        MASTER  VOLUME
- - - - - - - - - - - - - - - - - - - - -
```
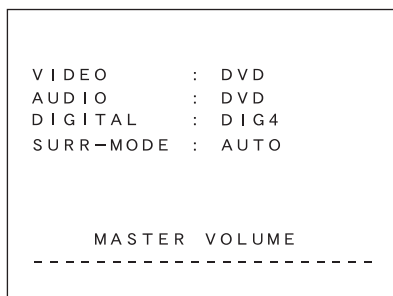
① **VIDEO SOURCE:**
Displays the current video source being selected with the function selector **TV, DVD, VCR1, DSS** or **AUX**.

② **AUDIO SOURCE:**
Displays the current audio source being selected with the function selector **FM, AM, CD, TAPE, CD-R, TV, DVD, VCR1, DSS** or **AUX**.

③ **DIGITAL INPUT:**
Displays the digital input that you are using **DIG-1, DIG-2, DIG-3** or **DIG-4**.

④ **SURROUND MODE:**
Displays the current surround mode
AUTO, DOLBY D, DOLBY D EX, PLII MOVIE, PLII MUSIC, PRO LOGIC, DTS, DTS ES, NEO6 CINEMA, NEO6 MUSIC, MULTI CH. ST, CS2 CINEMA, CS2 MUSIC, CS2 MONO, VIRTUAL, MOVIE, HALL, STADIUM, MATRIX, STEREO

Note:

• Not all modes will be present depend on selected input.

⑤ **MASTER VOLUME**
Displays the current volume level.
The volume level is higher at the right of the display.

Notes:

• The On-Screen Display signals can be output from the TV MONI composite video (RCA) output and the TV MONI S-Video output jacks.

• When you connect both the composite video and S-VIDEO, there will be no signal output from composite video jack.

• With some video equipment or software, the On-Screen Display characters may be distorted due to noise or tracking adjustment error.

2. FUCTION SELECT & SURROUND MODE

When a function selector button or surround mode button is pressed
VIDEO: Displays the current video source. When TV,DSS, DVD, VCR1 or AUX is selected with the function selector, both AUDIO and VIDEO shows the same name.
AUDIO: Displays the current analog audio input source.
DIGITAL: Displays the current digital input source.
SURR-MODE: Displays the current Surround mode.

```
VIDEO        :  DVD
AUDIO        :  DVD
DIGITAL      :  DIG4
SURR—MODE    :  AUTO
```

3. MASTER VOLUME CONTROL

Displayed when the MASTER volume is varied or a button of the remote control unit is pressed.

```
        MASTER  VOLUME
- - - - - - - - - - - - - - - - - - - - -
```

4. MUTE

When the **MUTE** button ⑪/5 is pressed, "MUTE ON" will be shown on screen.
Pressing **MUTE** button ⑪/5 again will show "MUTE OFF" on screen, and return to the previous volume level.

```
                MUTE  ON
```

5.SLEEP TIMER

When the **SLEEP** button ⑨ / 23 is pressed, the setting on or off and the remaining time of the sleep timer function are displayed.
You can change the mode between on, off and the amount of time to elapse before the unit will shut itself off by cycling the **SLEEP** button ⑨/23.

```
        SLEEP  TIMER
            OFF
```

SURROUND MODE

The SR5300 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 25 to confirm the available decoding mode.

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 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 Center, 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 center speaker(s).

DTS-ES (Discrete 6.1, Matrix 6.1)

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

DTS

This mode is for DTS encoded source materials such as LASER DISC, CD, and DVD.
The DTS mode cannot use when an analog input has been selected.

Note:

- When use DTS Music source, LFE level is set to - 10 dB by LFE LEVEL of SURROUND in the SETUP MAIN MENU (See page 18) as DTS's recommendation.

DTS NEO: 6 (NEO:6 CINEMA, NEO6: 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.
SRS TruSurround, SRS and (●)® symbol are trademarks of SRS Labs, Inc.
SRS TruSurround technology is incorporated under license from SRS Labs, Inc.

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 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 SR5300 digitally. This is because the digital signal has been processed (such as the output level, sampling frequency, or frequency response) and the SR5300 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".

* If DTS cinema, DTS music or DTS-ES mode is selected, digital input cannot be switched to analog input.

* When the analog input function has been selected, Surround mode cannot be switched to DTS cinema, DTS music or DTS-ES mode.

* 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 SR5300 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.

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The relation between the selected surround mode and the input signal

The surround mode is selected with the surround mode selector knob of the SR5300 or the remote control unit. However, the sound from the speakers depend upon the relationship between the selected surround mode and the input signal. They are as follows;

SURROUND MODE	INPUT SIGNAL	OUTPUT CHANNELS					FLUORESCENT INDICATOR	
		L/R	C	SL/SR	SC	SW	FORMAT STATUS & SURROUND MODE	TEMPORARY DISPLAY STATUS
AUTO	DOLBY DIGITAL(5.1CH)	O	O	O	-	O	AUTO, DOLBY, DIGITAL	AUTO
	DOLBY DIGITAL(2CH)	O	-	-	-	O	AUTO, DOLBY, DIGITAL	AUTO
	DOLBY DIGITAL (2CH:Lt/Rt)	O	O	O	-	O	AUTO, DOLBY, DIGITAL, PRO LOGIC II	AUTO
	DOLBY DIGITAL EX(6.1CH)	O	O	O	O	O	AUTO, DOLBY, DIGITAL, SURROUND EX	AUTO
	96KHZ PCM	O	-	-	-	-	AUTO, STEREO, PCM	AUTO -> 96KHz
	PCM(AUDIO)	O	-	-	-	O	AUTO, STEREO	AUTO
	ANALOG	O	-	-	-	O	AUTO, STEREO	AUTO
	DTS(5.1CH)	O	O	O	-	O	AUTO, DTS	AUTO
	DTS-ES(6.1CH)	O	O	O	O	O	AUTO, DTS, ES	AUTO
PL2 MOVIE	DOLBY DIGITAL(5.1CH)	O	O	O	-	O	DOLBY, DIGITAL	DOLBY D
	DOLBY DIGITAL(2CH)	O	O	O	-	O	DOLBY, DIGITAL, PRO LOGIC II	DOLBY PL2 MV
	DOLBY DIGITAL(2CH:Lt/Rt)	O	O	O	-	O	DOLBY, DIGITAL, PRO LOGIC II	DOLBY PL2 MV
	DOLBY DIGITAL EX(6.1CH)	O	O	O	-	O	DOLBY, DIGITAL	DOLBY D
	96KHZ PCM	-	-	-	-	-		
	PCM(AUDIO)	O	O	O	-	O	DOLBY, PRO LOGIC II, PCM	DOLBY PL2 MV
	ANALOG	O	O	O	-	O	DOLBY, PRO LOGIC II	DOLBY PL2 MV
	DTS(5.1CH)	-	-	-	-	-		
	DTS-ES(6.1CH)	-	-	-	-	-		
PL2 MUSIC	DOLBY DIGITAL(5.1CH)	O	O	O	-	O	DOLBY, DIGITAL	DOLBY D
	DOLBY DIGITAL(2CH)	O	O	O	-	O	DOLBY, DIGITAL, PRO LOGIC II	DOLBY PL2 MS
	DOLBY DIGITAL(2CH:Lt/Rt)	O	O	O	-	O	DOLBY, DIGITAL, PRO LOGIC II	DOLBY PL2 MS
	DOLBY DIGITAL EX(6.1CH)	O	O	O	-	O	DOLBY, DIGITAL	DOLBY D
	96KHZ PCM	-	-	-	-	-		
	PCM(AUDIO)	O	O	O	-	O	DOLBY, PRO LOGIC II, PCM	DOLBY PL2 MS
	ANALOG	O	O	O	-	O	DOLBY, PRO LOGIC II	DOLBY PL2 MS
	DTS(5.1CH)	-	-	-	-	-		
	DTS-ES(6.1CH)	-	-	-	-	-		
PRO LOGIC	DOLBY DIGITAL(5.1CH)	O	O	O	-	O	DOLBY, DIGITAL	DOLBY D
	DOLBY DIGITAL(2CH)	O	O	O	-	O	DOLBY, DIGITAL, PRO LOGIC	DOLBY PL
	DOLBY DIGITAL(2CH:Lt/Rt)	O	O	O	-	O	DOLBY, DIGITAL, PRO LOGIC	DOLBY PL
	DOLBY DIGITAL EX(6.1CH)	O	O	O	-	O	DOLBY, DIGITAL	DOLBY D
	96KHZ PCM	-	-	-	-	-		
	PCM(AUDIO)	O	O	O	-	O	DOLBY, PRO LOGIC, PCM	DOLBY PL
	ANALOG	O	O	O	-	O	DOLBY, PRO LOGIC	DOLBY PL
	DTS(5.1CH)	-	-	-	-	-		
	DTS-ES(6.1CH)	-	-	-	-	-		
EX/ES	DOLBY DIGITAL(5.1CH)	O	O	O	O	O	DOLBY, DIGITAL, SURROUND EX	DOLBY D EX
	DOLBY DIGITAL(2CH)	-	-	-	-	-		
	DOLBY DIGITAL (2CH:Lt/Rt)	-	-	-	-	-		
	DOLBY DIGITAL EX(6.1CH)	O	O	O	O	O	DOLBY, DIGITAL, SURROUND EX	DOLBY D EX
	96KHZ PCM	-	-	-	-	-		
	PCM(AUDIO)	-	-	-	-	-		
	ANALOG	-	-	-	-	-		
	DTS(5.1CH)	O	O	O	O	O	DTS, ES	DTS ES
	DTS-ES(6.1CH)	O	O	O	O	O	DTS, ES	DTS ES
DTS	DOLBY DIGITAL(5.1CH)	-	-	-	-	-		
	DOLBY DIGITAL(2CH)	-	-	-	-	-		
	DOLBY DIGITAL(2CH:Lt/Rt)	-	-	-	-	-		
	DOLBY DIGITAL EX(6.1CH)	-	-	-	-	-		
	96KHZ PCM	-	-	-	-	-		
	PCM(AUDIO)	-	-	-	-	-		
	ANALOG	-	-	-	-	-		
	DTS(5.1CH)	O	O	O	-	O	DTS	DTS
	DTS-ES(6.1CH)	O	O	O	-	O	DTS	DTS
Neo:6 CINEMA Neo:6 MUSIC	DOLBY DIGITAL(5.1CH)	-	-	-	-	-		
	DOLBY DIGITAL(2CH)	-	-	-	-	-		
	DOLBY DIGITAL(2CH:Lt/Rt)	-	-	-	-	-		
	DOLBY DIGITAL EX(6.1CH)	-	-	-	-	-		
	96KHZ PCM	-	-	-	-	-		
	PCM(AUDIO)	O	O	O	O	O	PCM	NEO6 CINEMA or MUSIC
	ANALOG	O	O	O	O	O		NEO6 CINEMA or MUSIC
	DTS(5.1CH)	-	-	-	-	-		
	DTS-ES(6.1CH)	-	-	-	-	-		
MULTI CH. ST	DOLBY DIGITAL(5.1CH)	O	O	O	O	O	DOLBY, DIGITAL, SURROUND EX	M-CH STEREO
	DOLBY DIGITAL(2CH)	O	O	O	O	O	DOLBY, DIGITAL	M-CH STEREO
	DOLBY DIGITAL(2CH:Lt/Rt)	O	O	O	O	O	DOLBY, DIGITAL	M-CH STEREO
	DOLBY DIGITAL EX(6.1CH)	O	O	O	O	O	DOLBY, DIGITAL, SURROUND EX	M-CH STEREO
	96KHZ PCM	-	-	-	-	-		
	PCM(AUDIO)	O	O	O	O	O	PCM	M-CH STEREO
	ANALOG	O	O	O	O	O		M-CH STEREO
	DTS(5.1CH)	O	O	O	O	O	DTS, ES	M-CH STEREO
	DTS-ES(6.1CH)	O	O	O	O	O	DTS, ES	M-CH STEREO

SURROUND MODE	INPUT SIGNAL	OUTPUT CHANNELS					FLUORESCENT INDICATOR	
		L/R	C	SL/SR	SC	SW	FORMAT STATUS & SURROUND MODE	TEMPORARY DISPLAY STATUS
CS2 CINEMA	DOLBY DIGITAL(5.1CH)	-	-	-	-	-		
CS2 MUSIC	\OLBY DIGITAL(2CH)	-	-	-	-	-		
CS2 MONO	DOLBY DIGITAL(2CH:Lt/Rt)	-	-	-	-	-		
	DOLBY DIGITAL EX(6.1CH)	-	-	-	-	-		
	96KHZ PCM	-	-	-	-	-		
	PCM(AUDIO)	O	O	O	O	O	PCM	CS-2 CINEMA or MUSIC or MONO
	ANALOG	O	O	O	O	O		CS-2 CINEMA or MUSIC or MONO
	DTS(5.1CH)	-	-	-	-	-		
	DTS-ES(6.1CH)	-	-	-	-	-		
VIRTUAL	DOLBY DIGITAL(5.1CH)	O	-	-	-	O	VIRTUAL, DOLBY, DIGITAL	VIRTUAL
	DOLBY DIGITAL(2CH)	O	-	-	-	O	VIRTUAL, DOLBY, DIGITAL, PRO LOGIC	VIRTUAL
	DOLBY DIGITAL(2CH:Lt/Rt)	O	-	-	-	O	VIRTUAL, DOLBY, DIGITAL, PRO LOGIC	VIRTUAL
	DOLBY DIGITAL EX(6.1CH)	O	-	-	-	O	VIRTUAL, DOLBY, DIGITAL	VIRTUAL
	96KHZ PCM	-	-	-	-	-		
	PCM(AUDIO)	O	-	-	-	O	VIRTUAL, PRO LOGIC, PCM	VIRTUAL
	ANALOG	O	-	-	-	O	VIRTUAL, PRO LOGIC	VIRTUAL
	DTS(5.1CH)	O	-	-	-	O	VIRTUAL, DTS	VIRTUAL
	DTS-ES(6.1CH)	O	-	-	-	O	VIRTUAL, DTS	VIRTUAL
(DSP SURROUND)	DOLBY DIGITAL(5.1CH)	-	-	-	-	-		
MOVIE	DOLBY DIGITAL(2CH)	-	-	-	-	-		
HALL	DOLBY DIGITAL(2CH:Lt/Rt)	-	-	-	-	-		
STADIUM	DOLBY DIGITAL EX(6.1CH)	-	-	-	-	-		
MATRIX	96KHZ PCM	-	-	-	-	-		
	PCM(AUDIO)	O	O	O	O	O	DSP SOUND, PCM	MOVIE or HALL or STADIUM or MATRIX
	ANALOG	O	O	O	O	O	DSP SOUND	MOVIE or HALL or STADIUM or MATRIX
	DTS(5.1CH)	-	-	-	-	-		
	DTS-ES(6.1CH)	-	-	-	-	-		
STEREO	DOLBY DIGITAL(5.1CH)	O	-	-	-	O	STEREO, DOLBY, DIGITAL	STEREO
	DOLBY DIGITAL(2CH)	O	-	-	-	O	STEREO, DOLBY, DIGITAL	STEREO
	DOLBY DIGITAL(2CH:Lt/Rt)	O	-	-	-	O	STEREO, DOLBY, DIGITAL	STEREO
	DOLBY DIGITAL EX(6.1CH)	O	-	-	-	O	STEREO, DOLBY, DIGITAL	STEREO
	96KHZ PCM	O	-	-	-	-	STEREO, PCM	STEREO -> 96KHz
	PCM(AUDIO)	O	-	-	-	O	STEREO, PCM	STEREO
	ANALOG	O	-	-	-	O	STEREO	STEREO
	DTS(5.1CH)	O	-	-	-	O	STEREO, DTS	STEREO
	DTS-ES(6.1CH)	O	-	-	-	O	STEREO, DTS	STEREO
S-DIRECT	DOLBY DIGITAL(5.1CH)	O	O	O	-	O	DIRECT, DOLBY, DIGITAL	S-DIRECT
	DOLBY DIGITAL(2CH)	O	-	-	-	O	DIRECT, DOLBY, DIGITAL	S-DIRECT
	DOLBY DIGITAL(2CH:Lt/Rt)	O	O	O	-	O	DIRECT, DOLBY, DIGITAL	S-DIRECT
	DOLBY DIGITAL EX(6.1CH)	O	O	O	O	O	DIRECT, DOLBY, DIGITAL, SURROUND EX	S-DIRECT
	96KHZ PCM	O	-	-	-	-	DIRECT, STEREO, PCM	S-DIRECT -> 96KHz
	PCM(AUDIO)	O	-	-	-	O	DIRECT, STEREO, PCM	S-DIRECT
	ANALOG	O	-	-	-	O	DIRECT, STEREO	S-DIRECT
	DTS(5.1CH)	O	O	O	-	O	DIRECT, DTS	S-DIRECT
	DTS-ES(6.1CH)	O	O	O	O	O	DIRECT, DTS, ES	S-DIRECT

Note:

- Dolby Digital (2 ch: Lt/Rt): signal with Dolby Surround flag Speakers are full set.
- No sound outputs from the surround speaker, center speaker and subwoofer if the DVD disc has no surround data.

L/R : Front speakers
C : Center speaker
SL/SR : Surround speakers
SC : Surround Center speaker
SW : Sub woofer speaker

TROUBLE SHOOTING

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 ?

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.

SYMPTOM	CAUSE	REMEDY
SR5300 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 output to Sub Woofer Out.	Sub-woofer = NONE has been selected in SETUP mode.	Select Sub-woofer = YES.
Surround mode cannot be changed.	The headphones are connected to the jack.	Disconnect the headphones. (When headphones are connected, Surround mode will be fixed to STEREO.)
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.
DTS sources cannot be played.	Surround mode is set to DOLBY. The DVD or LD player is not DTS digital out capable.	Select other mode. Use a player which responds to DTS-digital out.
Player skips during play of a DTS source and produces noise.	Data error occurred during player skip.	Set Surround mode to DTS.
A 96kHz PCM signal cannot be played.	The disc player is not 96kHz PCM digital out capable. Surround mode is set to other than STEREO and AUTO.	Use a player that responds to 96kHz PCM digital out. Set Surround mode to STEREO or AUTO.
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 SR5300 and the remote commander is too far. Something is blocking SR5300 and the remote commander.	Replace all the batteries with new ones.. Select different position from which equipment will be controlled. Move closer to this SR5300. 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

Memory backup
- In case a power outage occurs or the power cord is accidentally unplugged, the SR5300 is equipped with a backup function to prevent memory data such as the preset memory from being erased.

  The memory functions are backed up for up to about one week.

Note:
- First of all keep SR5300 Standby or Powered-on more than 6 hours, to sufficient time for memory back up.

HOW TO RESET THE UNIT

Should the operation or display seem to be abnormal, reset the unit with the following procedure.

1. The SR5300 is turned on, press and hold the **A/D** ⑦ and **DIMMER** ⑩ buttons simultaneously for 3 seconds or more.

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

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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 75/70 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 500 mV

AM TUNER SECTION

Frequency Range .... AM: 520 - 1710 kHz
Signal to Noise Ratio .... 50 dB
Usable Sensitivity .... Loop 400 µV/m
Distortion .... 400 Hz, 30 % Mod. 0.5 %
Selectivity .... ± 20 kHz 60 dB

AUDIO SECTION

Continuous Power Output (8 ohms / 20 Hz - 20 kHz)
   Front .... 90 W
   Center .... 90 W
   Surround .... 90 W
THD Front (20 Hz - 20 kHz) .... 8 ohms 0.05 %
Input Sensitivity/Impedance
   Linear .... 340 mV/ 47 Kohms
Signal to Noise Ratio
   Linear .... 105 dB

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)
S/N .... 60 dB

GENERAL

Power Requirement .... AC 120 V 60 Hz
Power Consumption .... 3.6 A
Dimension (MAX)
   Width .... 17-5/16 inch (440 mm)
   Height .... 6-7/16 inch (164 mm)
   Depth .... 16-3/4 inch (425 mm)
   Weight.. 28.38 lbs (12.9 kg)

ACCESSORIES

Remote Control Unit RC5300SR 1
AAA-size batteries 2
FM Feeder Antenna 1
FM Antenna Converter 1
AM Loop Antenna 1
Warranty Card (for USA) 1
Warranty Card (for CANADA) 1
User Guide 1

pecifications subject to change without prior notice.

DIMENSION
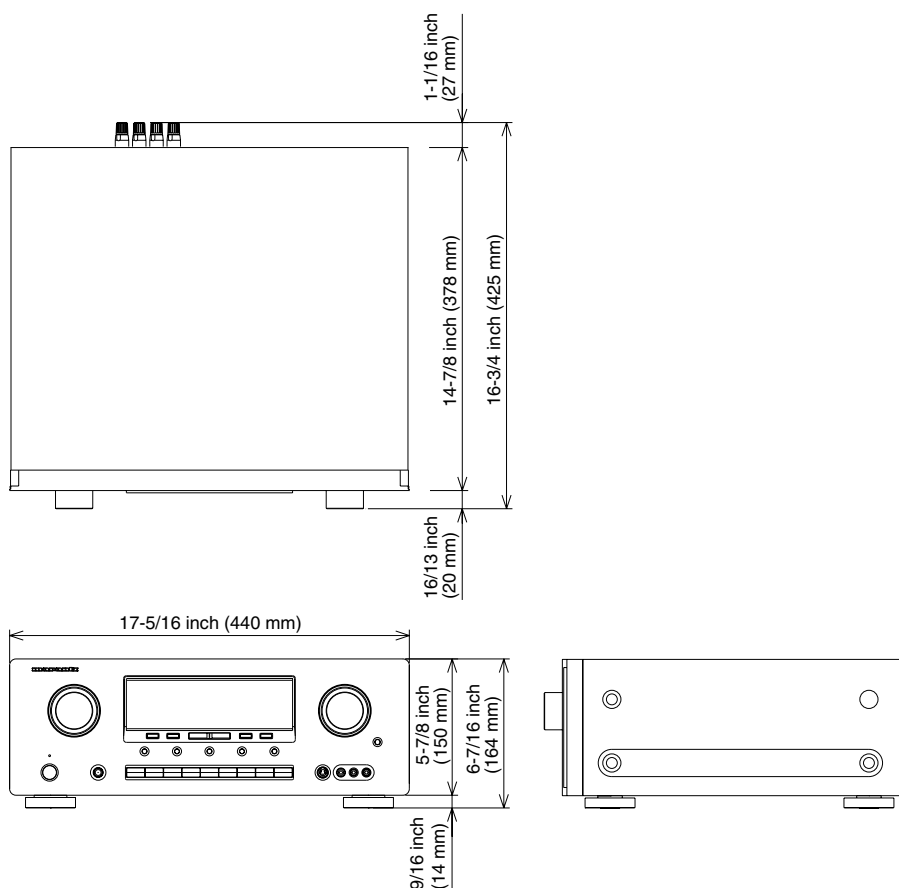
SETUP CODES

CD

Aiwa 0151, 0184
Burmester 0447
California Audio Labs 0056, 0330
Carver 0184, 0206, 0326, 0464
DKK 0027
Denon 0030
Emerson 0332
Fisher 0201, 0206
Garrard 0420, 0447
Genexxa 0059, 0332
Harman/Kardon 0184, 0200
Hitachi 0059
JVC 0099
Kenwood 0055, 0064, 0217
Krell 0184
LXI 0332
Linn 0184
Luxman 0062, 0120, 0293, 0354, 0355, 0457, 0459, 0510, 0516
MCS 0056
MTC 0447
Magnavox 0184, 0332
Marantz 0056, 0184, 0207, 1207, 0999,
Mission 0184
NAD 0046, 0326, 0343, 0747, 0748
NSM 0184
Nakamichi 0106, 0174, 0466, 0471, 0691
Nikko 0201
Onkyo 0128
Optimus 0027, 0059, 0064, 0172, 0206, 0332, 0447, 0464, 0495
Panasonic 0056, 0330
Parasound 0447
Philips 0184
Pioneer 0059, 0271, 0332, 0495
Polk Audio 0184
Proton 0184
QED 0184
Quasar 0056
RCA 0059, 0080, 0206, 0332, 0495, 0791
Realistic 0206, 0207, 0447
Rotel 0184, 0447
SAE 0184
Sansui 0184, 0332
Sanyo 0206
Scott 0332
Sears 0332
Sharp 0064, 0207
Sherwood 0207
Sonic Frontiers 0184
Sony 0027, 0212
Soundesign 0172
Tascam 0447
Teac 0201, 0207, 0420, 0447
Technics 0056, 0330
Toshiba 0046, 0326
Victor 0099
Wards 0080, 0184
Yamaha 0063, 0214
Yorx 0488

MD PLAYERS

Denon 1900
Kenwood 1708, 1853
Marantz 1207
Onkyo 1895
Optimus 1090
Pioneer 1090
Sharp 1888
Sherwood 1094
Sony 1517
Yamaha 1915

CDR

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Carver 0056
Denon 0103
Garrard 0335, 0336
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Magnavox 0056
Marantz 0056
NAD 0171
Onkyo 0162, 0309
Optimus 0054, 0247
Panasonic 0256
Philips 0056
Pioneer 0054, 0126, 0247
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Sansui 0056
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Technics 0256
Victor 0300
Wards 0054
Yamaha 0121, 0124

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Echostar 0802, 1032
Expressvu 0802
General Instrument 0388, 0654, 0896
HTS 0802
Hitachi 0846
Hughes Network Systems 0776
JVC 0802
Jerrold 0388, 0654
Magnavox 0749, 0751
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Primestar 0388, 0654
RCA 0170, 0419, 0593, 0882
Radio Shack 0896
Sony 0666
Star Choice 0896
Toshiba 0776, 0817
Uniden 0749, 0751
Zenith 0883

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Aiko 0119
Akai 0057
Alaron 0206
Ambassador 0204
America Action 0207
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Audiovox 0119, 0207, 0478, 0650
Baysonic 0207
Belcor 0046
Bell & Howell 0043, 0181
Bradford 0207
Brockwood 0046
Broksonic 0263, 0490
CXC 0207
Candle 0057, 0083
Carnivale 0057
Carver 0081
Celebrity 0027
Cineral 0119, 0478
Citizen 0057, 0083, 0087, 0119
Concerto 0083
Contec 0207
Craig 0207
Crosley 0081
Crown 0207
Curtis Mathes 0043, 0057, 0074, 0078, 0081, 0083, 0087,
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Daytron 0046
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Dumont 0044, 0046
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Electroband 0027
Emerson 0046, 0181, 0204, 0205, 0206, 0207, 0263, 0490,
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Funai 0206, 0207
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GE 0074, 0078, 0120, 0205, 0478, 1174, 1374
Gibralter 0044, 0046, 0057
GoldStar 0046, 0057, 0083, 0205
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Zenith 0027, 0066, 0236, 0506

DVD

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