marantz ®

Model SR8000 User Guide

AV Surround Receiver

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.

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 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.

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 appliance is operated.

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

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

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

5. Cleaning-Unplug this video 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 video product manufacturer as they may cause hazards.

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

9. Ventilation-Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video 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 video product on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video 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.

10. Power Sources-This video 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 appliance dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

11. Grounding or Polarization-This video product is 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.
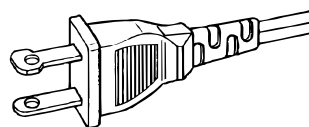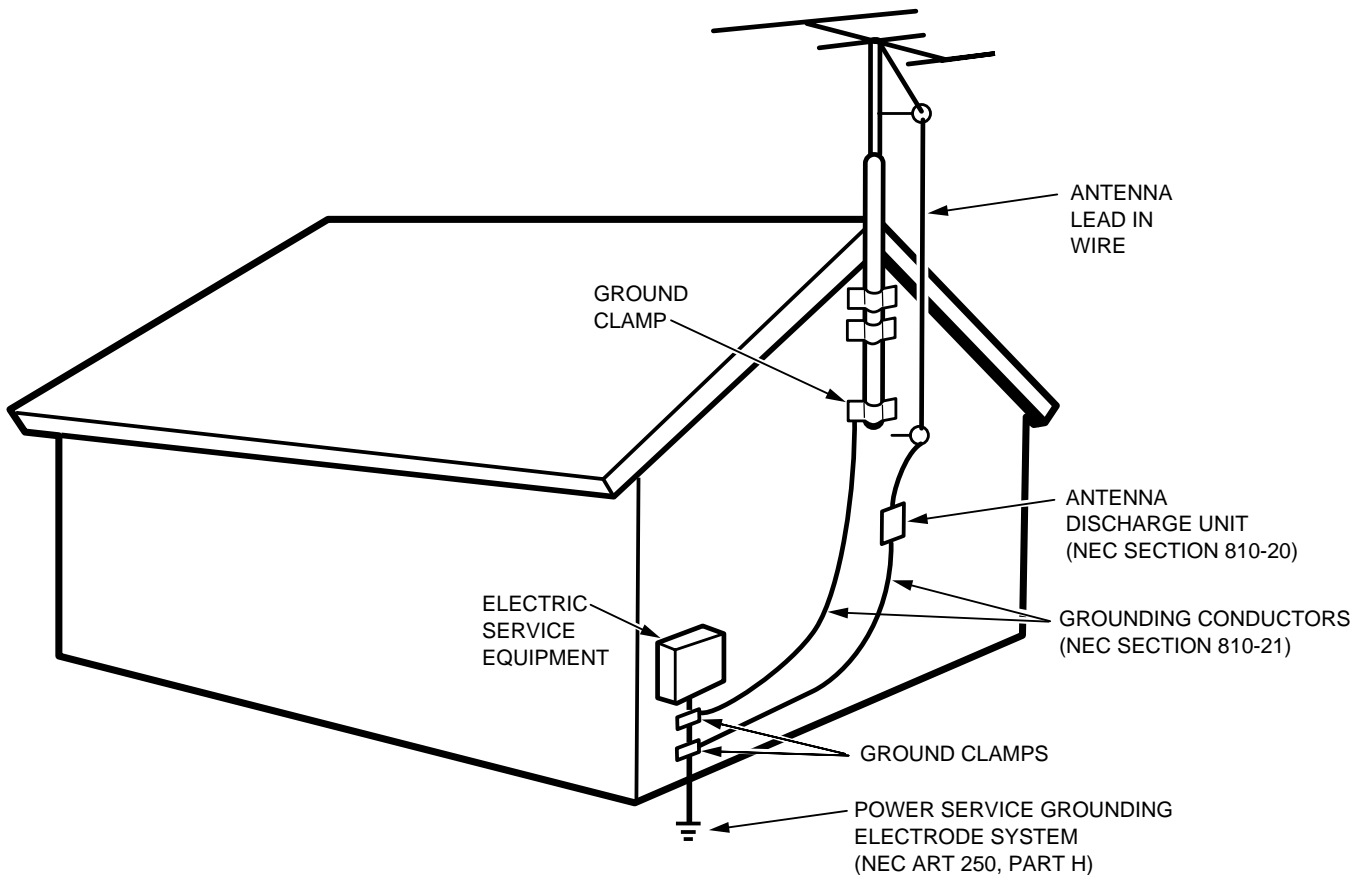

AC POLARIZED PLUG

12. 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 appliance.

13. Protective Attachment Plug - The appliance 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.

14. Outdoor Antenna Grounding-If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect 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.

15. Lightning-For added protection for this video product receiver during a lightning storm, or when it is left un-attended 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 video product due to lightning and power-line surges.

16. 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.

17. Overloading-Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry-Never push objects of any kind into this video 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 video product.
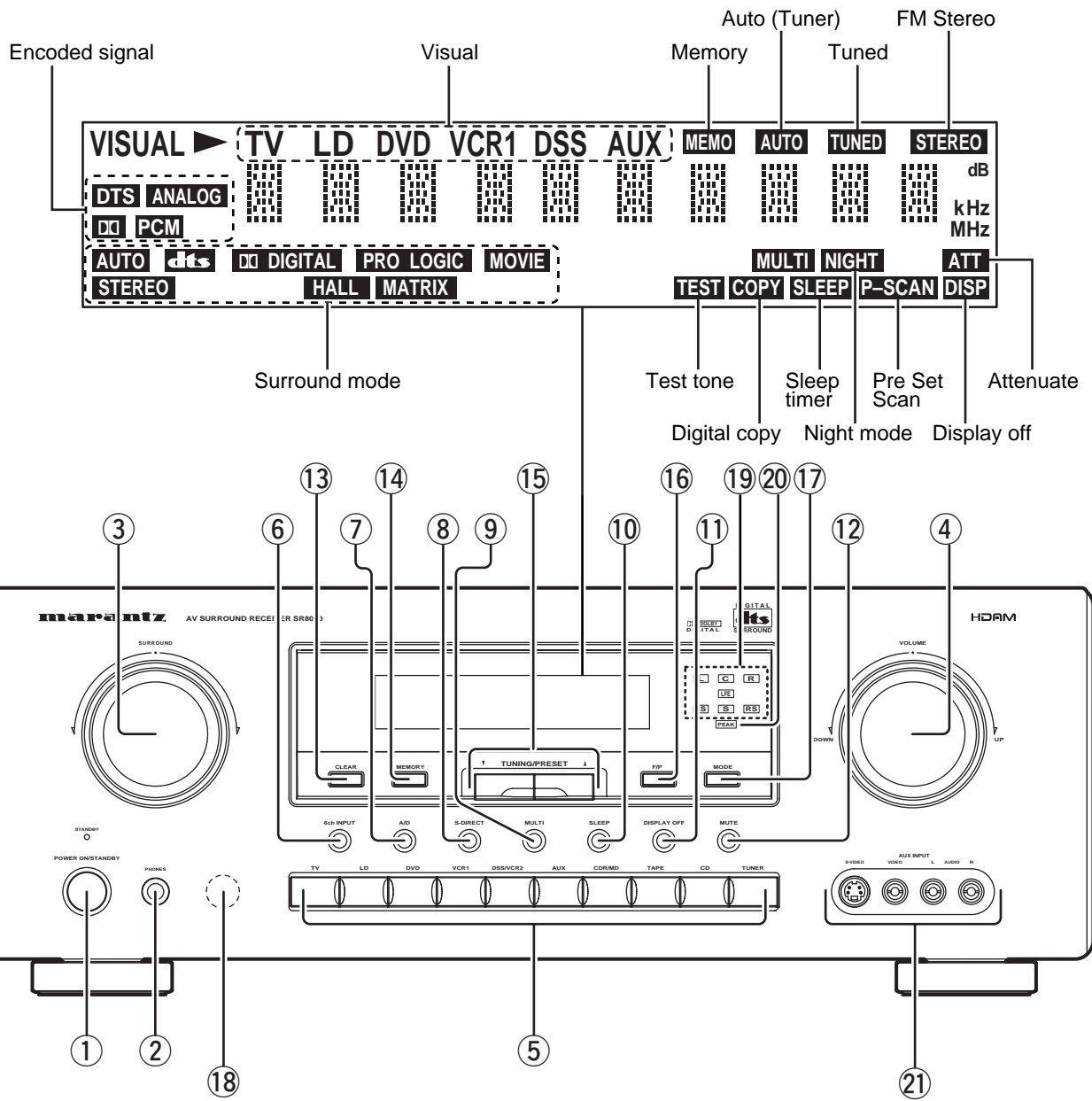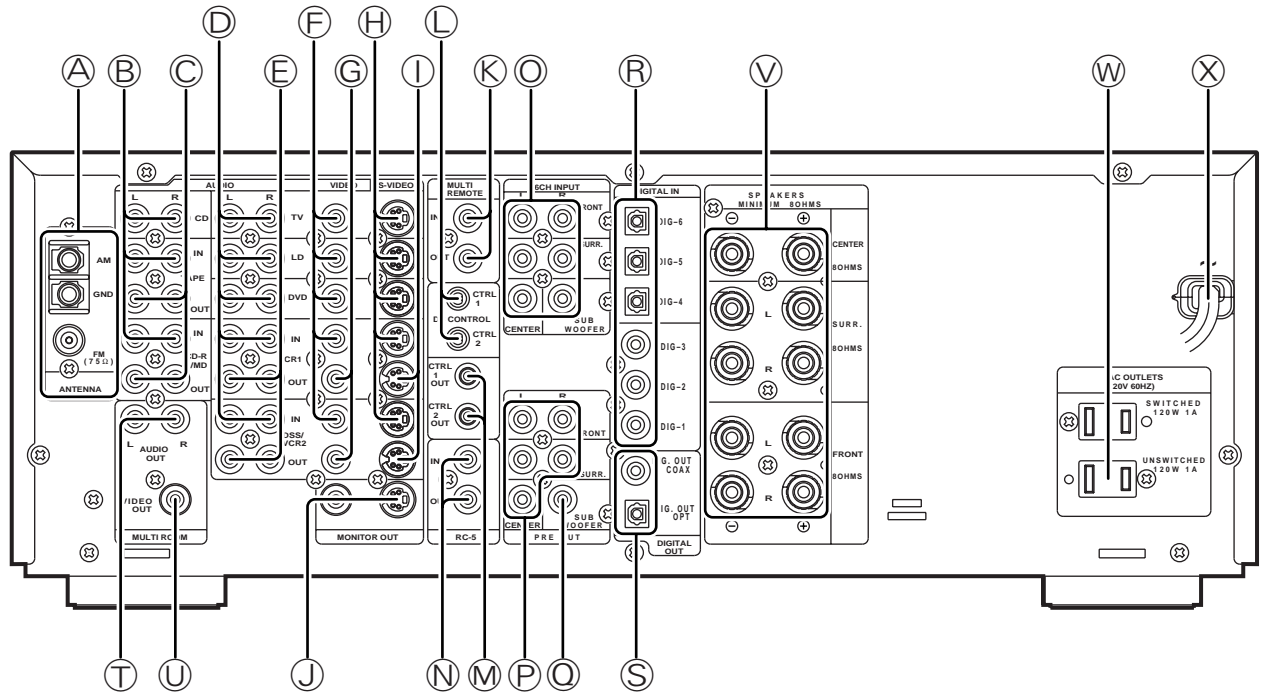
19. Servicing-Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service-Unplug this video 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 video product.

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

d. If the video 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 video product to its normal operation.

e. If the video product has been dropped or the cabinet has been damaged.

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

21. 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.

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

23. Carts and Stands-The appliance should be used only with a cart or stand that is recommended by the manufacturer.

24. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

FIGURE 1
EXAMPLE OF ANTENNA GROUNDING ACCORDING TO
NATIONAL ELECTRICAL CODE INSTRUCTIONS
CONTAINED IN ARTICLE 810 - "RADIO AND TELEVISION EQUIPMENT"

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

Encoded signal

Visual

Memory

Auto (Tuner)

Tuned

FM Stereo

VISUAL ▶ TV LD DVD VCR1 DSS AUX MEMO AUTO TUNED STEREO

DTS ANALOG
DD PCM

dB
kHz
MHz

AUTO dts DD DIGITAL PRO LOGIC MOVIE
STEREO HALL MATRIX

MULTI NIGHT ATT
TEST COPY SLEEP P–SCAN DISP

Surround mode

Test tone

Digital copy

Sleep timer

Night mode

Pre Set Scan

Display off

Attenuate

1

TABLE OF CONTENTS

ENGLISH

INTRODUCTION

Thank you for purchasing the Marantz SR8000 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 SR8000.

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

DIGITAL
dts
SURROUND

DTS was introduced in 1994 to provide 5.1 channels of discrete digital audio into home theater systems.

The DTS brings you premiumre 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.

DD DOLBY
D I G I T A L

Dolby Digital lets you enjoy Digital TV, Digital Satellite as well as DVD, LD software in digital surround, which is the next step above Dolby Pro Logic.

In comparison with Dolby Pro Logic, Dolby Digital can provide separate left surround and right surround channels, for more precise localization of sounds and a more convincing, realistic ambience. And, with Dolby Digital, all five main channels can be full ranged and a subwoofer can be added to each channel ,if desired. By providing up to 5.1channels of digital audio independently, Dolby Digital lets you enjoy better sound quality and more powerful presence than conventional Dolby Surround.

"Dolby", "AC-3", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.
"DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

FEATURES

• Dolby Digital and DTS surround sound decoding, plus Dolby Pro Logic decoding and a variety of additional surround modes.

• 96 kHz/ 24 bit decoding for highest possible fidelity and bandwidth, and high-resolution playback of 96 kHz/ 24 bit PCM audio sources.

• 100 watts to each of the five 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 .

• High Definition Amplifier Module (HDAM) discrete pre-amp output stages.

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

• Six-channel direct inputs accommodate future surround sound formats or an external digital decoder.

• 6 Digital inputs, for connection to other sources, such as DVD, DSS, CD or LD.

• 2 Digital outputs for connection to CD-R or MD.

• High-quality AM/FM tuner with 50 station presets.

• Source Direct switch bypasses, tone controls and bass mangagement for purest audio quality.

• S-video and composite video switching .

• On- Screen- Display with both Composite and "S" video.

• Front panel A/V inputs, with S-video .

• Easy to use, on-screen menu.

• Multi-room capability offers independent control of a second room audio and video system.

• Supplied with RC18SR Programmable Learning Remote Control.

FRONT PANEL FEATURES (SEE PAGE 1.)

① POWER switch and STANDBY indicator

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

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

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 and the sound from the speakers is muted.

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 in the following sequence.

AUTO ⟷ DTS-cinema ⟷ DTS-music ⟷ DOLBY

STEREO ⟷ 5 STEREO ⟷ MATRIX ⟷ HALL ⟷ MOVE
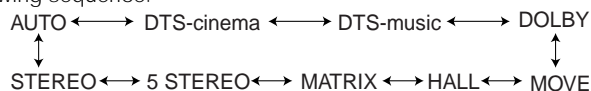
Note:

Not all modes will be present if an analog input is selected.

④ VOLUME control knob

Adjusts the overall 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 , LD, 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 6CH INPUT 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 circuitry is bypassed as well as Bass Management.

Notes:

The surround mode is automatically switched to AUTO when the source direct function is turned on.

Additionally, Speaker Configurations are fixed automatically as follow.

Front SPKR = Large
Center SPKR = Large
Surround SPKR = Large
Sub woofer = On

⑨ MULTI (Multi Room) button

Press this button to switch the unit to multi room mode. "MULTI ROOM" appears in the display.

⑩ SLEEP button

Set the sleep timer function with this button .

⑪ DISPLAY OFF button

When this button is pressed, the display is turned off and the display off indicator lights up (DISP).

Press this button again to turn the display ON again.

⑫ MUTE button

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

⑬ CL (Clear) button

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

⑭ MEMO (memory) button

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

⑮ 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.

⑯ FREQUENCY / PRESET buttons

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 these buttons.

⑰ 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.

⑱ INFRARED SENSOR window

This window receives infrared signals from the remote control unit.

⑲ ENCODED CHANNEL STATUS indicators

These indicators display the channels that are encoded with a digital input signal.

If the selected digital input signal is Dolby Digital 5.1ch or DTS 5.1ch, "L", "C", "R", "LS", "RS" and "LFE" will light up.

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

Note:

These indicators are only active with a digital input.

⑳ PEAK indicator

This indicator is a monitor for an analog audio input signal.

If the selected analog audio input signal is greater than the capable level of internal processing, will light.

If this happens, you should press the ATT button.

㉑ AUX input jacks

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

REAR PANEL CONNECTIONS (SEE PAGE 1.)

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.

Ⓐ 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.

Ⓑ Three analog audio inputs

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

Ⓒ Two analog audio outputs for audio source equipment

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

Ⓓ Five analog audio inputs for video source equipment

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

Ⓔ Two analog audio outputs for video source equipment

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

Ⓕ Five video inputs

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

Ⓖ Two video outputs

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

Ⓗ Five S-video inputs

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

Ⓘ Two S-video outputs

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

Ⓙ 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.

Ⓚ MULTI ROOM REMOTE I/O terminals

IN : Connect to multi-room remote control device, available from your Marantz dealer.
OUT : Connect to the Marantz component equipped with remote control (RC-5) terminals in another room (Second zone).

Ⓛ DC LEVEL control 1 & 2

This determines the output voltage (5-13 VDC) of the DC trigger jacks.

Ⓜ DC control output 1 & 2

Connect a device that needs to be triggered by DC under certain conditions (screen, power strip, etc…) Use the system setup menu (3/3) to determine the conditions by which these jacks will be active.
Note:
This output voltage is for (status) control only, It is not sufficient for drive capability.

Ⓝ REMOTE CONT. IN/OUT terminals

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

Ⓞ 6 CH INPUT jacks

Connect to the outputs of an external multichannel decoder.

Ⓟ PRE OUT jacks

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

Ⓠ SUB WOOFER output jack

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

Ⓡ Six DIGITAL inputs

Dig.1,2,3 (coaxial) and Dig.4,5,6(Optical)
Connect each input to the digital output of your source equipment.
Use the system setup menu to assign digital input to appropriate source. (see page. 11)
Note :
The coaxial connections are not for AC-3 RF from LD, If you want to decode this type of signal, an external demodulator must be used.

Ⓢ Two DIGITAL outputs

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

Ⓣ MULTI OUT jacks (Audio)

Connect to the input jacks of the amplifier used to drive the speakers in another room (Second zone).

Ⓤ MULTI OUT jack (Video)

Connect to the input jacks of the TV monitor in another room (Second zone).

Ⓥ SPEAKER 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.

Ⓦ AC OUTLETS

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 SR8000 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 SR8000
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 SR8000 is turned on.

Ⓧ POWER cable

Plug into a household AC power outlet.

REMOTE CONTROL BUS CONNECTIONS

This unit is equipped with a remote control function.
By connecting this unit's remote control jacks to a Marantz CD player or tape deck equipped with remote control (RC-5) jacks, it allows system remote control to operate.
Connect **RC-5 OUT** jack of SR8000 to REMOTE CONT. IN of other Marantz equipment, i.e. CD player or Cassette deck, by using an RCA pin cable.

Note:

If a component equipped with remote control (RC-5) jacks has an INT/EXT switch on the rear panel, set the switch to EXT when using the system control function.

(Connection example)

SR8000 rear panel
or MA500 rear panel   CD player rear panel   Tape deck panel
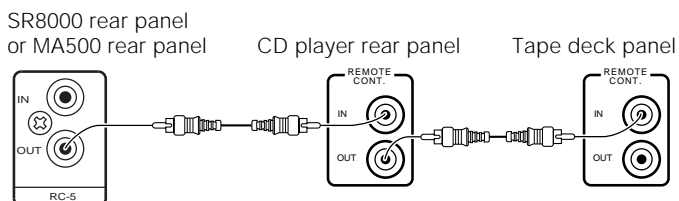
Controlling the power ON/OFF of a power amplifier connected to the SR8000 through Marantz remote control

1. If you connect the MA500 power amplifier to the SR8000, set the Bus System Selector switch of the MA500 to "System 2".
   Now the MA500 can be turned ON / OFF in synchronism with the power ON / OFF of the SR8000.

Notes:

● Be sure to connect the remote control bus before the procedure above.

CONNECTION FOR A SUBWOOFER

Use this connection when using a sub-woofer speaker.
You can also connect a powered subwoofer.

Powered subwoofer

LINE IN

Other Marantz
Equipment (RC-5)

Set the switch to "SYSTEM 2"

Marantz MA500 power amplifier

Subwoofer speaker
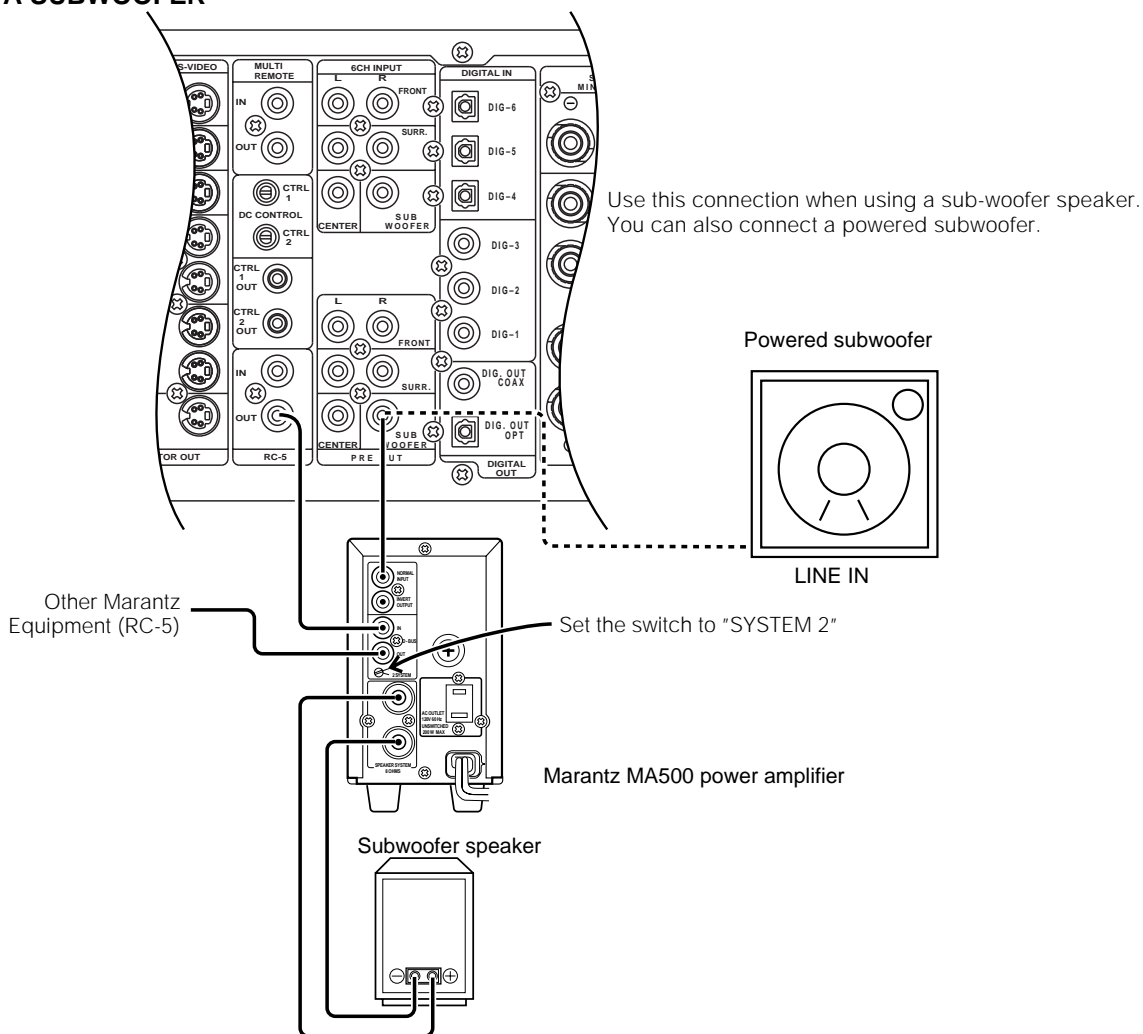
REMOTE CONTROL UNIT RC-18SR

This chapter describes the functions which need to control the SR8000. See page 18 and following pages to refer other function of the RC-18SR.

4 POWER ON and OFF

These two buttons are use for turning on or off SR8000.

7 DIRECT button

The DIRECT command buttons (4 on each side of the LCD display, 8 total) work with the PAGE buttons (4 pages for each source component) to provide up to 32 dedicated specialized functions for each of the 11 function input selectors. Each DIRECT function may also be provided with an alphanumeric function indicator visible in the LCD display. Press the **AMP** or **TUNER** button 9 to control the receiver.

Press one of these buttons to select a surround mode for the current listening session.

AMP			
MODE1	1 **AUTO**	Auto select surround modes	
	2 **DOLB**	Dolby Digital or Pro Logic decoding	
	3 **THX**	THX cinema decoding This button is not used for SR8000.	
	4 **DTS**	DTS-cinema or DTS-music	
	5 **HALL**	Hall surround sound	
	6 **MTRX**	Matrix surround sound	
	7 **MOV**	Movie surround sound	
	8 **2-CH**	Stereo sound (no surround)	
MODE2	1 **A/D**	analog / digital select switch Switches between the analog input and the digital input.	
	2 **DIR**	source direct switch When this switch is pressed, the signals are transmitted by bypassing the tone control circuitry so that they can be reproduced with higher quality.	
	3 **ATT**	attenuate for analog input	
	4 **OSD**	on screen display Once the button is pressed, the on-screen display is turned on and each a control button related to the SR8000 is pressed thereafter, the information will be displayed on the TV screen. When the button is pressed again to turn the on-screen display off, it disappears from the TV screen. (Refer to "ON-SCREEN MENU SYSTEM" on page 8.)	
	5 **MONO**	monaural decoding This button is not used for SR8000.	
	6 **3-D**	3-D surround decoding This button is not used for SR8000.	
	7 **NITE**	NIGHT mode for Dolby Digital 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 (AC-3) is entered into digital Input and data to compress the voice exists in the signal to be played back.	
	8 **MLTI**	activates multi-room mode	
MODE3	1 **TRB+**	increases treble	
	2 **TRB-**	decreases treble	
	3 **BAS+**	increases bass	
	4 **BAS-**	decreases bass The button 1 to 4 are used to control the tone.	
	5 **R-EQ**	activates RE-EQ function This button is not used for SR8000.	
	6 **CH+**	channel select button Press this button to adjust the volume levels of the front, center, surround, subwoofer channels. Each press of the button changes the channel which can be adjusted.	

AMP			
MODE3	7 **LVL+**	Increases channel level volume	
	8 **LVL-**	decreases channel level volume After pressing the CH+ button, use the LVL+ and LVL- buttons to adjust the volume level of each speaker channel.	
PROCESSOR	1 **VOL+**	increases external decoder's volume This button is not used for SR8000.	
	2 **VOL-**	decreases external decoder's volume This button is not used for SR8000.	
	3 **6-CH**	6 channel direct button When the surround processor is connected to the DIRECT IN JACKS, press this button to play it.	
	4 **BYP**	bypasses external processor's decoding	
	5 **SLEP**	sleep timer button This button is used for setting the sleep timer.	
	6 **DISP**	display on/off function When this button is pressed, the display is turned on or off.	
	7 **MODE**	surround mode select button	
	8 **PHNO**	phono function button This button is not used for SR8000.	

TUNER			
BAND	1 **FM**	FM band button	
	2 **AM**	AM/MW band button	
	3 **LW**	long wave band button This button is not used for SR8000	
	4 **BAND**	selects radio band button	
	5 **MODE**	mono/stereo/muting mode selector button	
	6 **TIME**	time display button This button is not used for SR8000	
	7 **F/P**	frequency or preset channel display select button.	
	8 **SCAN**	preset scan button	

8 PAGE buttons

These buttons are used to select any 1 of the 4 pages of 8 functions for each **DIRECT** button, as explained above.

9 FUNCTION buttons

These buttons are used for selecting the input function. Press one of these buttons twice within 2 seconds.

11 VOLUME UP (+) AND DOWN (-)

These buttons are used to raise and lower the main system volume level.

12 TEN KEYPAD

They are useful for tuning a pre-set radio station and setting a station name.

13 M (MEMO) button

This button is used to enter the tuner preset memory numbers and station names.

14 C (Clear) button

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

16 CURSOR, OK buttons

The cursor buttons can be used to navigate within on-screen menus. These buttons are unavailable when the mode is set to DSS, TV or DVD.

17 MUTE button

This button can be used to mute the sound temporarily.

19 LIGHTING button

This button is used to activate the back-lit LCD screen and back-lit keys.

OPERATION OF REMOTE CONTROL UNIT

1. Remote control

The distance between the transmitter of the remote control unit and the IR SENSOR of the SR8000 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

SR8000

Approx. 5 m

60°

Remote control unit (RC-18SR)
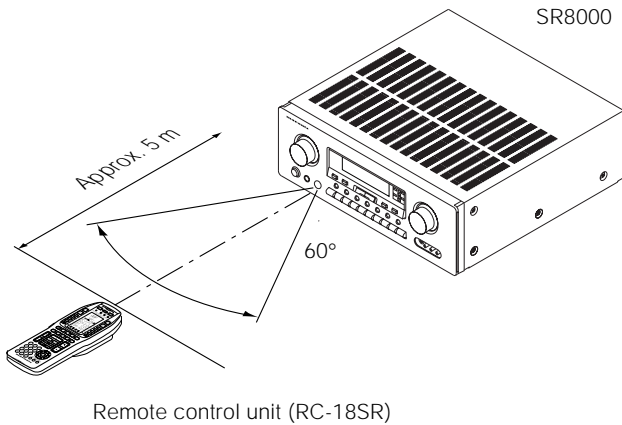
2. Loading batteries

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.
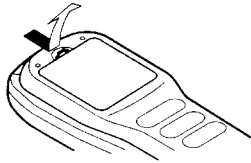
(2) Insert the alkaline batteries (AA type) with correct (+) and (–) polarity.
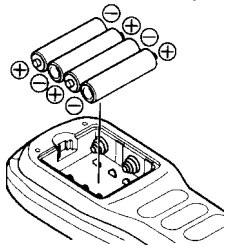
(3) Close until it clicks.
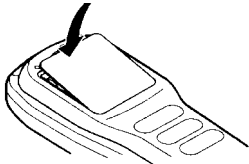
3. Receiving the remote control codes

The RC-18SR can learn most of the remote control codes from various equipment, it learns the full word length of the code it is receiving. Due to the sensitivity of the receiving LED the RC-18SR may also "learn" noise from fluorescent lights, etc. which can quickly fill up the memory of the RC-18SR.

In order to maximize the memory capacity of the RC-18SR please pay close attention to the following:

(1) Aim the transmitting remote control at a direct line of sight to the RC-18SR remote receiver eye.

(2) Keep 2 inches between transmitting remote and the RC-18SR receiving eye.

OK	NO GOOD
Top View LD remote control unit RC-18SR	**Top View** RC-18SR LD remote control unit
Side View LD remote control unit RC-18SR	**Side View** RC-18SR LD remote control unit
2 inch 5 cm	
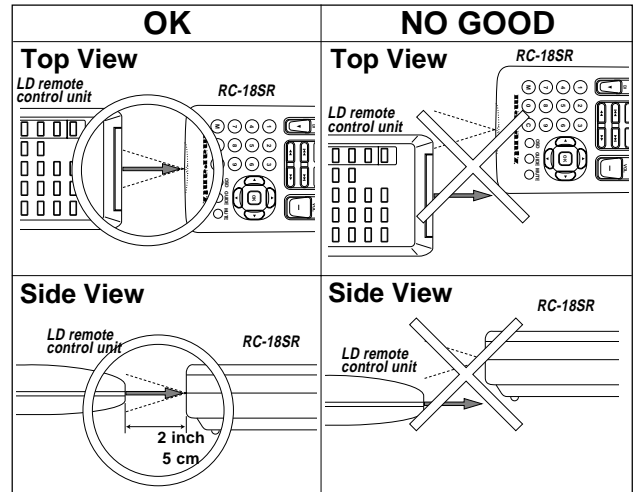
SET-UP

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

ON SCREEN DISPLAY MENU SYSTEM

The SR8000 incorporates an on-screen menu system,
which makes various operations
possible by using the cursor (◄, ►, ▲, ▼) and **OK**
buttons on the remote handset.
The settings made with these buttons are also shown in
the on-screen display.

OSD MAIN MENU

SURROUND MODE

SYSTEM SETUP 1/3

SPEAKER SETUP 1/3 SPKR SIZE

CHANNEL LEVEL CONTROL

SYSTEM SETUP 2/3

SPEAKER SETUP 2/3 SPKR DISTANCE

MULTI ROOM SETUP

SYSTEM SETUP 3/3

SPEAKER SETUP 3/3 SPKR LEVEL

10

OSD MAIN MENU

1. Press the AMP button.
2. Press any one of the cursor buttons (▲, ▼, ►, ◄ and **OK** buttons) to display the "MAIN MENU" of the on-screen display menu. Choose a desired item in the contents with ▲ or ▼ button, and press the **OK** button to select.
   Display will change to menu for each item.

SYSTEM SETUP

SYSTEM SETUP 1/3
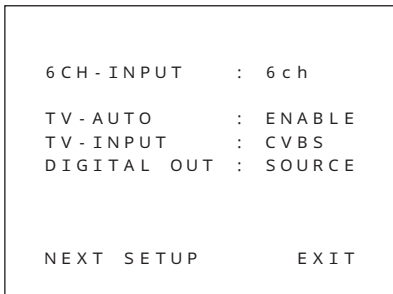
6CH. INPUT : The 6 channel direct input of the SR8000 can be selected to use a 6channel input or front 2channel input. Select 6channel use or 2channel use by ◄ or ► button.

TV AUTO : This product is equipped with a TV-auto ON/OFF system, which automatically turns on or off the power 1 second to 5 minutes after the TV video input signal has been sent or has been stopped.
Switch the TV AUTO ON/OFF function to enable or disable with ◄ or ► button.
To use this function, connect the TV video input to TV tuner's video output.

TV INPUT : This allows you to choose between the composite or the S-Video input for use with the TV auto function.

DIGITAL OUT : This lets you chose which digital input will be output for digital recording.

SOURCE ⟶ DIG.1 ⟶ DIG.2 ⟶ DIG.3 ⟶ DIG.4
↑⎯⎯⎯⎯ OFF ⟵ DIG.6 ⟵ DIG.5 ⎯⎯⎯┘
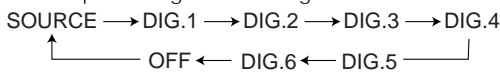
To determine each source, display the desired source and press the ◄ or ► button.

NEXT SETUP/EXIT : If you desire to continue the next setup ,press the **OK** button on NEXT-SETUP, if you desire to exit from OSD menu system, press the **OK** button on EXIT.

SYSTEM SETUP 2/3 (SELECTING THE DIGITAL INPUT)
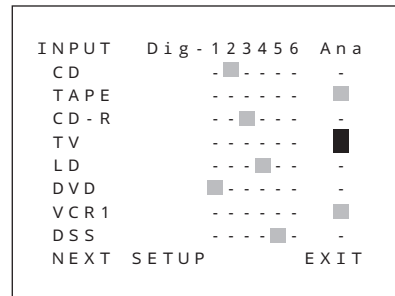
Six digital inputs can be assigned for the desired source.
Use this menu to determine which source is connected to which input.

Example;
When the digital output of a DVD player is connected to Digital 4 (input jack) of the SR8000;

1. Move the cursor on the line of the DVD with cursor buttons ▲ or ▼.
2. Move the cursor on "Dig 4" with cursor buttons ◄ or ► .
3. Press the **OK** button to chose.
4. If you desire to continue the next setup, press the **OK** button on NEXT-SETUP.
   If you desire to exit from OSD menu system, press the **OK** button on EXIT.

Notes:
The TUNER and AUX are fixed to the analog input, and are prevented from selecting any digital input.
While the DTS-LD or DTS-CD is playing, this setup is not available, this is to avoid noise being generated from the analog input. Stop the LD or CD playback to setup.
The SR8000 does not switch from digital input to analog input or vice versa automatically.
In the event that both digital and analog inputs are connected to SR8000, if you desire to switch to an analog input temporarily, you can switch by pressing the **A/D** button.

SYSTEM SETUP 3/3 (DC CONTROL OUTPUT)
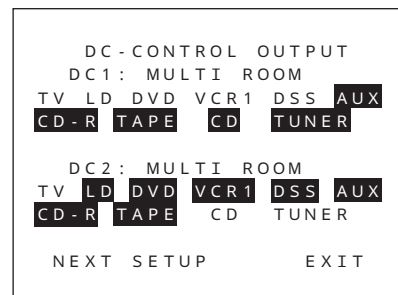
SR8000 has two DC control jacks, each one is selectable to link with input functions for the main room or multi room.
You can select MAIN ROOM or MULTI ROOM for DC1 & DC2 independently by ◄ , ► or **OK** button.
And then move the cursor to select the linked input function you desired by ◄ or ► button and press **OK** button to chose.

SPEAKERS SETUP

The home theater system you already have installed should function provided that there are left, center and right front speakers, left and right rear/surround speakers and a subwoofer. For best results we recommend that all front speakers be of the same type, with identical or similar driver units. This will deliver smooth pans across the front sound stage as the action moves from side to side.

Your center channel speaker is very important as over 80 % of the dialog from a typical motion picture emanates from the center channel. It should possess similar sonic characteristics to the main speakers.

Rear channel speakers need not be identical to the front channel speakers, but they should be of high quality.

One of the benefits of both Dolby Digital (AC-3) and DTS is that surround channels are discreat 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 theswitches in the menu system.

SUB WOOFER

LEFT   CENTER   RIGHT

SURROUND-L   SURROUND-R
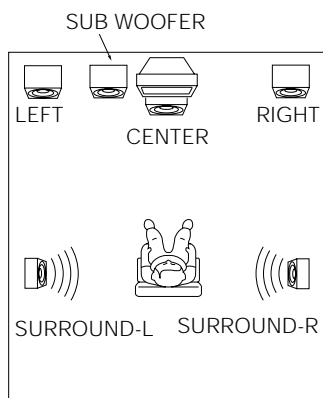
If possible, mount the surround speakers on the walls to the sides of the viewing area, 2-3 feet above seated viewers, firing straight across at each other.

SPKR SETUP 1/3 (SPKR SIZE)
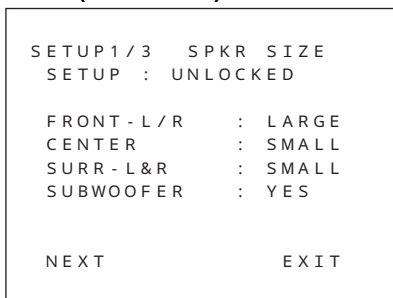
SETUP: Select "LOCKED" with ◄ or ► button in order to lock the contents of the SPKR SET UP MENU.
Then, when you want to change the contents of this setup, select "UNLOCKED".

SPKR SIZE
This menu enters the information about which type of speakers will be used for each channel.
In turn, these settings will determine which speakers receive low frequency information.
For the purpose of establishing proper bass reproduction, use the LARGE settings if the speaker being used at any position is a traditional full-range loudspeaker that is capable of reproducing sound below 100 Hz and you are not using a subwoofer.
Use the SMALL setting for smaller, frequency-limited speakers that are not able to reproduce sounds below 100Hz and you are using a subwoofer. Low frequencies will be diverted from the speaker to the subwoofer.
Note that when "small" speakers are used it is advisable to install a separate subwoofer, especially if you wish to appreciate the full impact of a good home theater soundtrack.
If the Surround speakers or Center speaker will not be used, set NONE for each speaker. The NONE setting will send the audio for the surround channels or Center channel to the front left/right speakers.

FRONT -L/R : Select the type of front speakers with ◄ or ► button.
CENTER : Select the type of center speaker with ◄ or ► button.
SURR-L/R : Select the type of surround speakers with ◄ or ► button.
SUBWOOFER: Select the subwoofer speaker yes or none with ◄ or ► button.

Notes:
The SUBWOOFER cannot be set to None when the front speakers are set to SMALL.
This speaker size setup is not effective when the SOURCE-DIRECT or 6CH. Input is selected.

SPKR SETUP 2/3 (SPKR DISTANCE)
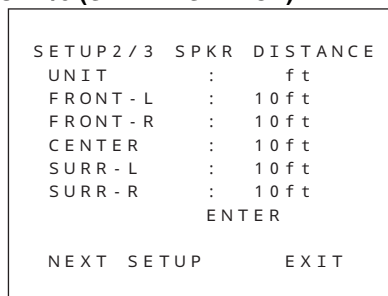
Use this parameter to specify the distance of the speaker's position from the listener.
The delay time is automatically set according to these distances.

UNITS: You can select Meters or Feet.
If you select "FEET", the setting parameter will change in 1 foot steps.
If you select "METER", it will change in 0.3 meter steps.
Select speaker with ▲ or ▼ button, and input each speaker's distance with ◄ or ► button.
When the input for each speaker's distance has been finished, move the cursor to ENTER and press the **OK** button.

NOTES :
If your are out of range, the OSD text will blink.
Placement beyond that distance is beyond the range of the automatic time delay feature.
The delay feature does not function in the SOURCE-DIRECT ,6 CH-Input modes and decoding of 96 kHz sources.

SPKR SETUP 3/3 (SPKR LEVEL)
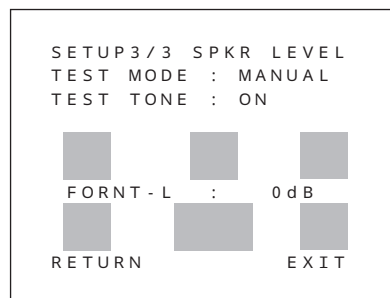
SPKR LEVEL
TEST MODE: Selects the mode for generating the test tone.
If you select AUTO, the test tone will be cycled through in a circular pattern which is Left → Center → Right → Surround Right → Surround Left → Subwoofer → Left → ... 3 seconds for each channel.
If you select MANUAL, press the **OK** or **CH+** button to select the test tone channels after the "TEST TONE ON".
TEST TONE: Press the **OK** button, ON is indicated and the test tone starts from the front L-CH speaker.
Press the **OK** button again, OFF is indicated and the output of the test tone will stop.
Channel: Adjust the level of test tone for each channel with the **LVL+, LVL–** or ◄ , ► buttons of the RC-18SR. The current volume level is shown at the center of the display.

SURROUND MODE

SOURCE DIRECT : Switch the source direct ON or OFF with◄ or ► button. This bypasses the surround processing and crossover for the main speakers (front left and right will be full range and the subwoofer will be ON)

Note: Surround mode cannot be changed in Source Direct mode.

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

NIGHT MODE : Switch the NIGHT MODE ON or OFF with ◄ or ► button.

Selecting the Night Mode ON is effective in Dolby Digital only, and it compresses the dynamic range.

This softens loud passages such as sudden explosions, to help prevent disturbing others late at night.

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 ► 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.

HT-EQ: Switch the HT (Home Theater) - EQ on or off with ◄ or ► button.

This mode compensates for the audio portion of a movie sounding "bright".

This equalizer is effective in AUTO, DOLBY, DTS-cinema, DTS-music and STEREO mode.

MULTI ROOM SETUP

MULTI ROOM : To switch on the Multi-room output.

VIDEO : Select the video source of the Multi-room output.

AUDIO : Select the audio source of the Multi-room output.

VOLUME : Select whether the Multi-room output level is variable or fixed.

VOLUME LEVEL : Adjust the Multi-room output level.

MAIN ROOM STATUS : Selected input source in the main room will be displayed.

Notes:
If "VOLUME" is set to "FIXED", the multi-room output level cannot be adjusted.
You cannot transmit a digital signal using the multi-room function.
Any source component that is desired to be operated in the second zone needs to have the analog outputs connected to receiver.

CHANNEL LEVEL CONTROL

Desired channels can be selected by pressing ◄ , ► or **CH+** , button. Each channel level will be adjusted by pressing ◄ , ► , **LVL+**, or **LVL–** button.

Only the usable channels which are determined depending on the SURROUND mode, and SPEAKER SETTING are displayed.

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 ⑨ on the remote.
2. Press the **TUNER** button ⑤ on the front panel or press the **TUNER** button ⑨ on the remote to select the desired frequency band if required.
3. Press the **F/P** button ⑯ on the front panel to display the frequency.
4. Press the **TUNING/PRESET** ▲ or ▼ button ⑮ on the front panel or press the ◄◄, ►► button ⑮ on the remote.
5. If FM is selected, press the **MODE** button ⑰ on the front panel or the **MODE** button D5 on the remote 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 SR8000)

1. Press the **F/P** button ⑯ on the front panel to display the frequency.
2. Press the **TUNING/PRESET** ▲ or ▼ button ⑮ 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 for more than 1 second to start the Auto tuning function.

PRESET TUNING

With this unit you can preset up to 50 FM/AM stations in any order. For each station, you can memorize the frequency and reception mode if desired.

1-a. Manual Presetting (Using the SR8000)

1. Refer to the "MANUAL TUNING" or "AUTO TUNING" section above to tune in a desired station.
2. Press the **MEMORY** button ⑭. "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 ⑮ then press the **MEMORY** button ⑭ 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 unit)

1. Tune in a desired station.
2. Press the **M** button ⑬.
3. Enter the desired preset number with ten keypad ⑫.
   * When entering a single digit number (2, for example), either input "02" or just input "2" and wait for a few seconds.
   * If a number other than 1-50 is entered by mistake, that number flashes in the display to indicate that it is invalid and the display returns to the original frequency display.

2. Auto Presetting

This function automatically scans the AM and FM band and enters all stations with sufficient signal strength into the memory.
This function is available only for SR8000.

1. Select the FM band with the **BAND** button on the remote.
2. Tune in the lowest receivable frequency.
3. While pressing the **MEMORY** button ⑭, press the **TUNING/PRESET** ▲ button ⑮. Auto memory starts at this point.
4. "MEMO " will blink on the display.

5. Each time the tuner finds a station, the scanning will pause and the station will be played for five seconds. During this time, the following operations are possible:
   1) The band can be changed using the **BAND** button on the remote.
   2) The mode can be changed using the (FM) **MODE** button ⑰ .
6. If no button is pressed during this period, the current frequency is preset in location CH-2.
   If you wish to skip the current station, press the **TUNING/PRESET** ▲ or ▼ button ⑮ during this period, the current frequency is skipped and auto presetting continues.
7. Operation stops automatically when all 50 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 ⑬.

3. Recalling a Preset Station

1. Press the **F/P** button ⑯ to change the display to preset.
2. Select the desired preset station by pressing **TUNING/PRESET** ▲ or ▼ button ⑮ on the front panel or press I◄◄ or ►►I button ⑮ 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 ⑮.
> To return to the Manual Tuning mode, press the **F/P** button ⑯.

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

1. Press the **SCAN** (preset scan) button D8 on the remote. "P-SCAN" indicator blinks in the display. (The preset station with the smallest preset number is recalled first. If no stations have been preset, CH "00" blinks 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 ►►I button continuously.
   When the desired preset station is received, cancel the preset scan operation by pressing the I◄◄ button or the SCAN button D8 or **CLEAR** button ⑬.

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 **MEMORY** button ⑭ on the front panel or **M** (MEMO) button ⑬ on the remote unit, "MEMO" blinks in the display for 5 seconds. While "MEMO" is still blinking, press the **CLEAR** button ⑬ on the front panel or **C** (CLEAR) button ⑭ on the remote unit. "CLEAR" appears on the display to indicate that the specified preset number has been cleared.

STATION NAME PRESET

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 ⑭ on the front panel or **M** (MEMO) button ⑬ 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 SR8000)]

3. When you press the **TUNING/PRESET ▲** or ▼buttons ⑮ 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 ⑭. The entry in this column is fixed and the next column starts to flash. Fill the next column and press the **MEMORY** button ⑭ for more than 1 second to confirm the entry.

[Operation (Using the remote unit)]

First, press the **TUNER** button 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 ⑫. 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 **M** (MEMO) button ⑬ to confirm the entry in this column and move to the next column. After having filled all of the 8 columns, press the **M** (MEMO) button ⑬, for more than 1 second to confirm the entry.

PLAYBACK OPERATION

NORMAL PLAYBACK

1. Press the POWER ON button on the remote.

2. Press the **FUNCTION SELECTOR** button ⑤ on the front panel or press the **FUNCTION** button ⑨ 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 **D1** to **D8** on page 1 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 **VOL + / –** button ⑪ on the remote. If necessary, adjust the tone using the **BASS** and **TREBLE** buttons **D1** to **D4** on page 3 in the AMP MODE 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, LD, DVD, VCR1, DSS/VCR2 or AUX.

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

OTHER FUNCTIONS

SETTING THE SLEEP TIMER

Set the sleep timer while the power is turned on.

1. Turn the power ON and press the **SLEEP** button ⑩ or D5 on page 4 at AMP mode.
"SLEEP" blinks on the display.

2. Press the **SLEEP** button ⑩ or D5 the number of times to set the desired sleep time in minutes.
Each press of the **SLEEP** button ⑩ or D5 changes the display in the following order:

```
10 ———→ 20 ———→ 30 ———→ 40 ———→ 50
                                        ↓
OFF ←— 90 ←— 80 ←— 70 ←— 60
```
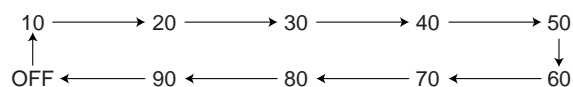
"SLEEP" stops blinking and lights steadily.
The unit will shut off in the number of minutes indicated.

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

* To cancel the sleep timer, press the **SLEEP** button ⑩ or D5 and then press the **CLEAR** button ⑱ or **C** (CLEAR) button ⑭.

TV AUTO ON/OFF FUNCTION

This function allows the component connected to the TV IN jack to control the power (ON/OFF) to the SR8000.

AUTO POWER ON

1. Be sure TV auto mode is enable. (Refer page 11 : System Setup 1/3)

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

3. Turn OFF the power to the TV TUNER and the SR8000.

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

5. When the station is received, the SR8000 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 SR8000 switches to STANDBY after approximately 5 minutes.

Note:
AUTO POWER OFF is canceled if the **FUNCTION SELECTOR** button ㉑ 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 be turned enable. To set this function to ENABLE/DISABLE, refer to the SETUP MENU.

MULTI ROOM SELECTOR

The Multi Room Selector is a function which allows you to listen to the same or a different source in a room other than the room in which the SR8000 is located. To use this function, a multi room remote unit and remote control signal receiver available from your Marantz dealer are necessary. The operations possible with the multi room function are explained briefly below. For details, refer to the instruction manual supplied with the multi room remote control unit and receiver.

MULTI ROOM SELECTOR OPERATION

1. Press the **MULTI** button ⑨. The unit enters multi room mode and the display indicates "SEL SOURCE" and flashes the "MULTI" indicator for approx. 10 seconds. In this time, you can select the input source by pressing the **FUNCTION SELECTOR** button ⑤ and you can set sleep timer for multi room by pressing by the **SLEEP** button ⑩.
2. Then, the display indicates "MULTI VOL" "VOLUME xx dB" for approx. 5 seconds. At this time, you can set the volume level of the multi room by turning the volume control knob.

MULTI ROOM SELECTOR OPERATION (USING THE MULTI ROOM REMOTE CONTROL UNIT)

1. If Video output for multi room is connected to the TV in your second zone, the on screen display for this video signal will be shown as follow.

- - -   - - -

2. Press the **MULTI** button, the POWER ON button, or select the desired source on multi room remote control unit from the MULTI ROOM. Any of these operations will put the SR8000 into multi room mode and "MULTI" will light in the display and OSD system for the TV in the multi room will be shown.
3. Press the **VOL.UP** or **VOL.DOWN** button on the multi room remote control unit to set the desired sound volume.
4. In multi room mode, the multi room remote control unit can be used in the multi room to operate the following functions.
    You can select a tuner preset channel and tuning up or down, and direct selection. And you can control the CD player LD player, DVD player and tape deck connected to the SR8000.
5. Additionally, SLEEP timer function for multi room is available from second zone, by the same way as setting the sleep timer for main room.
6. The status of the main room setting can be monitored from the second zone with the OSD.

Caution:

If the main room and the secondary room are listening to the same source, the main room will have priority over controlling that source. For example, you cannot change the frequency or preset of the Tuner from a remote location if the main room is also listening to that source.

O N   S C R E E N   D I S P L A Y 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 SR8000.

1. GENERAL INFORMATION

When the **OSD** button is pressed, the current setting are displayed on the TV monitor.
This display disappears automatically in about 10 seconds after the button is pressed.

- - - - - - - - - - - - - - - - - - - -

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

③ **DIGITAL INPUT:**
Displays the digital input that you are using
DIG-1, DIG-2, DIG-3 , DIG-4 , DIG-5, or **DIG-6**.

④ **DIGITAL OUTPUT:**
Displays the digital output that is being used for recording
SOURCE , DIG-1, DIG-2, DIG-3 , DIG-4 , DIG-5, DIG-6 or **OFF**.

⑤ **SURROUND MODE:**
Displays the current surround mode
AUTO, DOLBY, DTS-CINEMA, DTS-MUSIC, HALL, MATRIX, MOVIE , 5-STEREO , STEREO , S-DIRECT or **6CH INPUT**.

⑥ **MULTI ROOM**
Displays the current status of the Multi Room function.

⑦ **MASTER VOLUME**
Displays the current volume level.
The volume level is higher at the right of the display, and the pointer changes to "☐" at 0 dB.

Note:
The On-Screen Display signals for the main room can be output from the TV MONIcomposite video (RCA) output and the TV MONI, S-Video output jacks.
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 DSS/TV, LD, DVD, VCR 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 as follows; AUTO, DOLBY, DTS CINEMA, DTS MUSIC, HALL MATRIX, MOVIE, 5-STEREO , STEREO, S=DIRECT, or 6CH-INPUT.

HT-EQ : Displays the current status of the Home Theater-EQ function as ON or OFF.
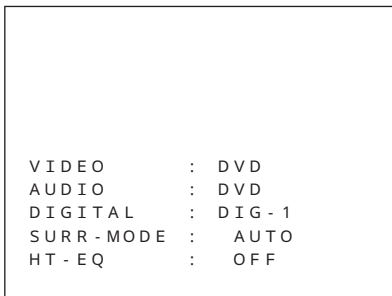
3. MASTER VOLUME CONTROL

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

The box display indicates the 0 dB level with a solid box "□".

- -

4. MUTE

When the **MUTE** button is pressed on the remote control, "MUTE" will be shown on screen.

Pressing **MUTE** button again will clear the display,or adjust the volume.

5.SLEEP TIMER

When the **SLEEP** button 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.

6. OSD OFF

When OSD button is pressed, OSD system will be bypassed after 3 seconds.
Then there is no indication on the TV display.
Press the **OSD** button again.

- -
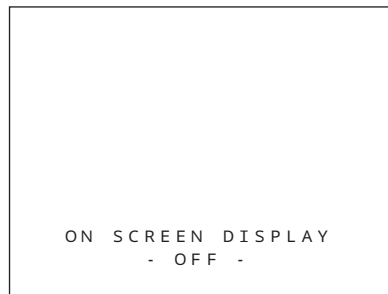
REMOTE CONTROL UNIT RC-18SR

- The remote control unit provided with the SR8000 is a "learning"-type, programmable unit capable of controlling almost any component in your system, as well as the Marantz D-BUS components (RC-5). The components to be controlled can be selected with 11 function buttons.

OPERATION

The provided remote control unit (RC-18SR) is a system remote controller. The **POWER** button [4], 10-key numeric buttons [12] and control buttons [15] are used in common across different input source components.

The input source system controlled with the RC-18SR changes when one of the input selector buttons [9] is pressed.

- Example: To select the LD player as the input source and play an LD on it

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

  The input function of the SR8000 is switched to LD and the RC-18SR is set for control of the LD player.

  Press the **PLAY** ▶ button [15] to play an LD.
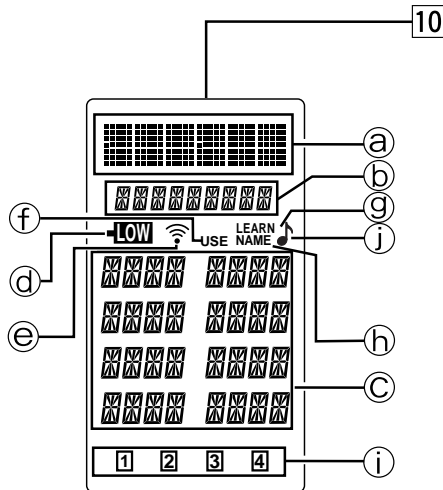
FUNCTION AND OPERATION
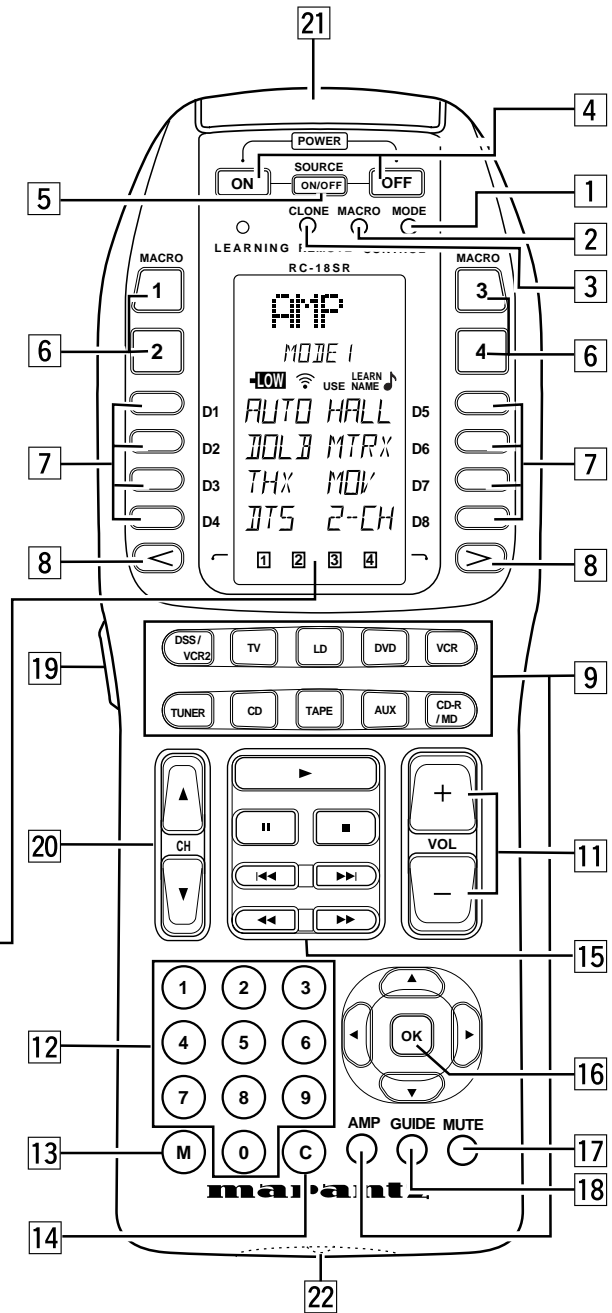
[1] MODE (operating mode)

This button is used to change from normal operation to the learning mode, and is used when "learning" commands from other brands of A/V components. Each time this button is pressed (using a small pointed instrument, such as the tip of a paper clip) the mode changes as follows: LEARN →USE →NAME. As the mode changes, the LCD display will show which mode is currently selected.

[2] MACRO (for multiple step macro functions)

This button is used to memorize a series of functions. When this button is pressed, the RC-18SR changes to macro programming mode, and is ready to learn a sequence of remote control commands.

18

3 CLONE

The RC-18SR has the ability to "replicate" itself, downloading all of its internal pre-programmed and user-programmed commands to another RC-18SR or RC2000MKⅡ. This button is used when you wish to "teach" another RC-18SR or RC2000MKⅡ all of the customized commands you've already programmed in this RC-18SR.

4 POWER ON and OFF

These two buttons are used to turn the main component's (amplifier or receiver) AC power on and off. We provide both ON and OFF commands so that your A/V system is remote compatible with external infrared controllers, such as in-wall key pads, and etc.

5 SOURCE ON/OFF

This button is used to turn the AC power on and off to any of your A/V source components that have their own remote control turn-on and turn-off commands, such as TV, laser disc player, VCR, etc.

6 MACRO 1-4

Each of these 4 buttons can be programmed with a "string" of commands, called a macro, to initiate a sequence of remote codes to achieve a particular result. For example, a macro button could be programmed to turn on the main system power, then turn on a particular source component (such as a laser disc player), then turn on the TV set, set the TV to AUX video input, and then adjust the surround processor to the home theater surround decoding mode, then activate the laser disc player's PLAY function. This means that by pressing one macro button, you can achieve the same result as pushing up to 20 buttons in sequence.

7 DIRECT

With today's high performance A/V systems, it is not unusual for each component in your system to have dozens of specialized command functions. If we were to duplicate all of those commands for each component onto the RC-18SR key pad, we could easily exceed 300 buttons for an entire home theater system, which would result in either a huge key pad, or buttons of infinitesimal size. The DIRECT command buttons (4 on each side of the LCD display, 8 total) work with the PAGE buttons (4 pages for each source component) to provide up to 32 dedicated specialized functions for each of the 11 function input selectors. Each DIRECT function may also be provided with an alpha-numeric function indicator visible in the LCD display. You may even change the displayed name of each function to another name, if you wish.

8 PAGE

Used to select any 1 of the 4 pages of 8 functions for each DIRECT button, as explained above.

9 FUNCTION

Press one of these buttons once or twice to select a particular source component. For example, to set the amplifier or receiver to the laser disc input, press the LD button twice within 2 seconds. Along with the source selection, special functions may become available (the DIRECT keys), as well as activating the transport function keys, so that you can now directly operate the laser disc player from the RC-18SR. If you wish, you may even re-program the status indicators in the LCD window to reflect your own particular function name whenever that source (function) button is selected.

Here are the button names and their functions:

LD	:	Laser disc player
TV	:	Television
VCR1	:	Video cassette recorder
DSS/VCR2	:	Digital satellite decoder or second video cassette recorder
AUX	:	Can be used for an auxiliary source component
TUNER	:	AM/FM tuner, or AM/FM tuner section of a receiver
CD	:	Compact disc player or changer
TAPE	:	Audio tape deck, or digital audio recorder
AMP	:	Amplifier or receiver control functions
DVD	:	Digital video disc player
CD-R/MD	:	CD-Recorder or mini disc player

Note:
Press a function selector button only once to select the LD player, etc. Remember, when you press a function selector button only once, the RC-18SR will not send out a remote control code to instruct the amplifier or receiver to change to that corresponding input, but the RC-18SR keypad and DIRECT function commands will provide the selected component's specialized remote control codes. Press a function selector button twice within 2 seconds to change the function of the amplifier or receiver.

For example, if you press the LD function button twice within 2 seconds, the amplifier or receiver's input will immediately be switched to the laser disc input, and the keypad and DIRECT function commands for laser disc operation will be activated. Press the CD function button only once, the amplifier or receiver's input will not switch to the CD input, however the RC-18SR keypad and DIRECT function commands for compact disc operation will be activated.

We have provided 11 popular function command selector buttons, based upon the typical input selections available with most quality A/V amplifiers (or receivers) including popular Marantz models.

The function button DSS/VCR2 is a little different from the others, in that when you press this button, the RC-18SR will send out a command to the amplifier or receiver to switch to the DSS input, and then the RC-18SR keypad and DIRECT function commands will be configured for DSS (digital satellite system) control. We have included DSS commands within the RC-18SR's pre-programmed memory for RCA brand DSS equipment. If you have another brand of DSS, you can "teach" the RC-18SR with the remote control codes of your equipment.

10 LCD window

The LCD window provides a wealth of information, including function selection name, DIRECT function names, learning and programming steps, as well as useful indicators for battery status, and other helpful indicators. The LCD window features back-lighting, making it easy to view when the room light is very low.

11 Volume up (+) and down (-)

Used to raise and lower the main system volume level. Note that these buttons are clearly the largest size, and are conveniently located and contoured for easy operation, even in low lighting.

12 Ten keypad

Like a telephone key pad, the ten number buttons (0-9) are used to enter numeric digits. They are useful for finding a specific track on a CD, or to tune a pre-set radio station, etc. The "0" button performs the same operation as the "CLEAR" button on the SR8000 main unit.

13 MEMO

This button is used to program your CD player's track memory, or to enter a VCR recording program, and can be used to provide the MEMO function included with other components in your system.

14 CLEAR

This button is used to cancel certain memory or programming operations. It operates differently from the "CLEAR" button on the SR8000 main unit.

15 Transport control functions

These buttons provide transport commands for your source components, such as laser disc player, CD player, VCR, audio tape deck, etc., and are dependent on the function source selected. For example, when the RC-18SR is set to LD (laser disc) mode, the transport keys will operate the laser disc player's PLAY, STOP, PAUSE, FAST FORWARD, FAST REVERSE, NEXT and PREVIOUS track functions. Change the RC-18SR function selector to VCR, and these keys will then operate the VCR's transport command functions, etc.

16 CURSOR buttons

Some components feature menus that are navigated with up, down, left and right direction commands. The cursor buttons can be used to navigate within on-screen menus, for components such as amplifier or receiver, TV set, DSS/satellite tuner, etc. These buttons are also used for certain RC-18SR programming functions.

17 MUTE

For those components (such as amplifier or receiver, TV, etc.) with a mute function, this button can be used to mute the sound temporarily.

18 GUIDE

This button is intended for owners of DSS (digital satellite system) or similar equipment, to activate the on-screen programming guide, used when changing channels, etc.

19 LIGHTING

Press this button to activate the back-lit LCD screen and back-lit keys independently SETUP mode. A quick touch is all that is necessary. The back-lighting will remain on for 3 seconds. If you wish, you can even re-program the RC-18SR to shorten or lengthen the amount of time the back-lighting is activated when this button is pressed.

20 Channel up(▲), down(▼)

Press this button to change the tuner, TV, DSS or VCR preset channels to upward or downward.

21 Transmitter window

Infrared signals will eminate from behind this window. Simply aim the RC-18SR towards the component(s) you wish to control. You may find that the RC-18SR works fine when placed on a coffee table pointing towards your A/V system components.

22 Receiving window

Used when learning commands from other remotes, this window is placed at the bottom of the RC-18SR, so that the two remotes are vertically oriented for easy transfer of remote control information. Later in this guide we will show you which of the RC-18SR buttons can be "taught" new commands from other components.

LIQUID CRYSTAL DISPLAY (LCD) WINDOW

Within this display, all operating messages (function name, mode names, etc.) are shown. When a particular button is pressed (such as a transport command, like PLAY), its status will be shown in the display for 1 minute. The display will continue to show the source function selected continuously, however.

ⓐ Function indication:
The selected source function is displayed, such as LD, TV, etc., up to 6 characters maximum.

ⓑ Status indication:
The selected status of the present page, or other items, is displayed, up to 9 characters maximum.

ⓒ Direct commands:
8 DIRECT commands are available in 1 page, up to 4 characters maximum.

ⓓ Battery indicator:
When the batteries are running low, this indicator will become visible. At this point, it will not be possible to learn any new remote codes, but normal remote control operation is still provided (including the use of any previously learned codes). At this point, you should consider changing the batteries soon. As time goes on, and the battery power diminishes further, this indicator will begin blinking. At this point, no remote commands will be transmitted. This is your signal to replace the batteries with fresh ones as soon as possible. Eventually, if you ignore the blinking battery indicator and do not install fresh batteries, then the batteries may eventually be totally exhausted, and the LCD display window will be completely blank. However, any previously learned commands and macros will not be erased from the microprocessor's memory.

The RC-18SR is supplied with a full set of RC-5 remote control codes in permanent (non-volatile) memory. Even if the batteries are fully exhausted, the RC-5 codes (used for Marantz A/V components) and learned codes will never disappear.

We recommend that you use a quality brand of alkaline batteries, for best results and longest life. Newly available lithium "AA" batteries can even provide longer life than alkaline batteries, and are also recommended.

ⓔ Transmit indicator:
When a button is pressed, this indicator shows that an infrared code is being transmitted.

ⓕ USE indicator:
For normal operation, the USE indicator should be visible.

ⓖ LEARN indicator:
Visible when the RC-18SR is set to LEARN mode.

ⓗ NAME indicator:
Visible when the RC-18SR is in the learning mode, and function naming is being changed.

ⓘ PAGE or MACRO indicator:
This indicator usually functions in association with a **PAGE** button 8, but also functions as the MACRO indicator when a **MACRO** button 6 is pressed.

ⓙ ♪ indicator:
Visible when the RC-18SR is set to the beep function.

Installing the batteries:
The battery compartment is located on the rear panel. Please use only alkaline or lithium batteries, "AA" size. The RC-18SR requires four AA batteries. There are markings in the battery compartment to show you the proper battery orientation. If after installing the batteries, you cannot see any indication in the LCD window when a button is pressed, re-check to ensure that the batteries are properly positioned in the compartment.

RC-18SR BASIC OPERATION

USE Mode:

As supplied from the factory, the RC-18SR is already permanently programmed with many pre-set commands common to Marantz and Philips equipment, as well as other brands of components that utilize the Philips RC-5 remote control language.

1. If the RC-18SR is in another mode (LEARN, etc.), press the operation mode button ① with the tip of a paper clip, until the USE indication appears.
2. Press one of the function buttons ⑨, to change to another component's commands such as LD (refer to Figure 1).

Figure 1
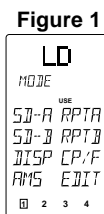
3. "LD" will be indicated within the LCD window, and the function codes will be set to operate the laser disc player. Press the function button again within 2 seconds and the amplifier or receiver's input changes to laser disc.
4. Now you can operate the laser disc player. When a button is pressed, the 📶 symbol indicates that a remote code is being transmitted. Note that for a particular source component, not every button may have a command programmed for it. In that case, nothing would be indicated.
5. Using the **DIRECT** buttons D-1 through D-8 and PAGEs 1 through 4, up to 32 different specialized commands are available for each FUNCTION, up to a total of 352 specialized commands (32 direct commands times 11 functions). Note that for any particular function selector, not all 32 direct commands may be provided and/or named as supplied from the factory.
6. For example, the RC-18SR is supplied from the factory with 3 pages of DIRECT commands for the **LD** (laser disc) function. To change pages, press the page direction ◄ or ► buttons ⑧:

    Page 1: MODE: Side A/B laser disc playback functions
    Page 2: L   D: Specialized laser disc functions
    Page 3: R E C: Recording from laser disc to VCR functions

    At this point, you may wish to put this guide aside temporarily, and begin using the RC-18SR with your A/V system. If you already have any Marantz components, or Philips and/or other brands of components that use the RC-5 remote control language, you can begin controlling those components with the RC-18SR right away. Take some time to become comfortable with the operation of the RC-18SR. We think that its intuitive key pad layout and easy to read LCD window will permit you to quickly become familiar with its operation.

    If you do not have any Marantz or other brands of components that use the Philips RC-5 remote control language, then you may wish to proceed to the next section, which will describe the steps necessary to "teach" your RC-18SR remote codes from other components you may have in your system.

LEARN mode:

The RC-18SR has the ability to learn remote codes for just about any component in your A/V system. If the original component was supplied with an infrared remote control, its commands can be learned by the RC-18SR. If you have another brand of laser disc player, for example, you can program the RC-18SR with its codes.
For example, we'll show you how to "teach" the RC-18SR commands from another brand of laser disc player.

1. Using a sharp point (such as the tip of a paper clip), press the operation **MODE** button ①. Each time you press the button, the mode within the LCD display, the LEARN indicator will begin blinking.
2. Place the laser disc player's supplied infrared remote controller so that its transmitter window (usually at the top) is facing the receiving infrared sensor window ㉒ of the RC-18SR (at the bottom), about 5 cm (2 inches) apart.

3. Press the LD function button on the RC-18SR.
4. Press the play button ⑮ on the RC-18SR.
5. Press and hold the corresponding **PLAY** button on the laser disc player's remote transmitter until the "OK" indicator appears in the RC-18SR LCD window (see Figure 2) or the beep sounds emit (if the beep sound function is set).

Figure 2
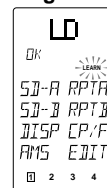
If the "AGAIN" indicator appears in the RC-18SR LCD window, it means that for some reason the command was not properly learned. Repeat steps 3, 4 and 5 above.

In the unlikely event that an infrared command cannot be learned by the RC-18SR, "NG" (no good) will appear in the LCD window, meaning that the command is not "learnable". The RC-18SR has been tested for compatibility with a very wide range of infrared remote control frequencies and data word lengths, but in some very rare instances, it may not be possible to learn a particular remote control command.

Continue to "teach" the RC-18SR the rest of the source transmitter's transport function commands, such as **STOP**, **PAUSE**, **NEXT**, **PREVIOUS**, **FAST FORWARD** and **REWIND**, by repeating steps 3, 4 and 5 above.

6. Proceed to learn the numeric "10 keys" from the source transmitter to the RC-18SR's 10 key numeric pad ⑫ by repeating steps 3, 4 and 5 above.
7. For each additional function, such as TV, VCR, etc., repeat steps 3, 4 and 5 above. During the LEARN operation, if any button is not pressed within 1 minute, the RC-18SR will revert back to the previous operating mode.
    ● To make a function button learn a code, switch the input function then press the button again.
8. After memorizing all desired remote codes, press the operation mode button ① with the tip of a paper clip, and select the USE mode. The LCD display window will continue to display the USE indicator, and all of the newly memorized codes will be available (see Figure 3).

Figure 3
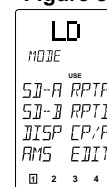
For any button for which a new code was not learned, the factory programmed RC-5 code will still transmit as usual.

Note:
POWER ON/OFF ④ code can be learned regardless of the function button selection:

Programming the DIRECT mode buttons ⑦:
The following example will show how to memorize the SIDE-A function command of another brand of laser disc player into the D1 direct button.

1. Using a sharp point (such as the tip of a paper clip), press the operation **MODE** button ① to switch the RC-18SR to LEARN mode.
2. Place the laser disc player's supplied infrared remote controller so that its transmitter window is facing the receiving infrared sensor window ㉒ of the RC-18SR about 5 cm (2 inches) apart.
3. Press the **LD** function button ⑨ on the RC-18SR.
4. Using the direct function page keys ◄ and ► ⑧, set the direct function to Page 1. Press the **D-1** button ⑦ on the RC-18SR.

5. Press and hold the corresponding SIDE-A button on the laser disc player's remote transmitter until the head of name blinks in the RC-18SR LCD window or beep sounds emit. The RC-18SR changes to the RENAME mode automatically as the next step. A function name of the **DIRECT** function button blinks, you can rename this blinking function name. You input the desired letter or number with the ten keypad. (See the table in step 3 of the next procedure for referece.) If you need not rename, press the **OK** button or the other buttons except the ten keypad.

6. Now, proceed to program the other commands from the laser disc player's remote transmitter to the other **DIRECT** function buttons (D2-D8). When you have "taught" all 8 direct functions for Page 1, press the page direction key ▶ 8 to go to Page 2, and you can program more direct function keys.

7. After memorizing all codes to all **DIRECT** function buttons, press the operation **MODE** button 1 with the tip of a paper clip and return the RC-18SR to the USE mode. Now, the newly memorized codes are usable from the RC-18SR.

If you wish, you can re-write the names for each function name, status name, and the direct function command names as follows:

For our example, you can change the LCD display window indication from "LD" to "LV-520" (which is the model number for a Marantz laser disc player). Remember, you can re-name a function selector button with a new name of up to six characters of letters and numbers in any combination.

1. Using the tip of a paper clip, press the operation **MODE** button 1 until the NAME indicator appears and begins to blink in the LCD window.

2. Choose a button that you wish to re-name, in this case, press the "**LD**" function button 9. In the LCD window, the first character of the six function character display indicators starts blinking "A", which is the first letter of the alphabet if you press "1" button twice.

3. Choose the desired letter or number by pressing the 10 keypad buttons 12. Each 10 keypad button has 4 characters attached to it as follows:

10 keypad button	Press, press again, press again, etc.
1	1 → A → B → C → 1 → ....
2	2 → D → E → F → 2 → ....
3	3 → G → H → I → 3 → ....
4	4 → J → K → L → 4 → ....
5	5 → M → N → O → 5 → ....
6	6 → P → Q → R → 6 → ....
7	7 → S → T → U → 7 → ....
8	8 → V → W → X → 8 → ....
9	9 → Y → Z → / → 9 → ....
0	0 → + → — → SPACE → , → ' → 0 ....

So, in the above example, by pressing the 10 keypad number 4 four times, you get the letter "L" to appear in the display (see Figure 4).

Figure 4
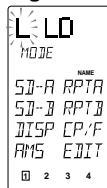
4. You use the cursor buttons ◀ and ▶ 16 to move to the next character in the display. By pressing the right cursor button ▶, the letter "L" is confirmed in the first character space in the LCD window and the next character position begins blinking. If you wish to erase a previously memorized character, position the cursor over the character and put the SPACE character in its place (the SPACE character is ten keypad number 0 pressed four times, from the above character chart).

5. Continuing along, re-write the remaining letters "V", "–", "5", "2", and "0". By pressing the cursor keys ◀ and ▶, each character is confirmed in place. When you go to other DIRECT function pages by using the page function keys 8, characters in the previous page are also confirmed in place.

The name re-writing operation must be done on a function by function basis, that is, re-write the names for all of the **LD** direct functions, then switch to another function such as VCR, and begin the re-writing process anew to re-name the **VCR** direct function commands. After completing all re-writing of any of the names, press the **OK** button within the cursor keys 16.

How to re-write the STATUS name:

Using the same steps as outlined above, you can re-write the 9 character status name. During step 5 above, by pressing the up and down cursor keys 16 the left side of the status indicator begins blinking, and you can change its display according to the same method outlined above, using the 10 keypad character generator. Remember, to confirm each character change, use the cursor keys ◀ and ▶. As above, when you change the direct function page by pressing the page direction keys 8, this will confirm the re-written characters in place as well for the page you just finished re-naming. You have up to 9 letters, numbers or other characters available for each status name.

How to re-write the DIRECT function button names:

You can change the name for each of the 8 direct function buttons by using the steps described above to change main function name and status name. Remember, each main function has 8 direct function buttons on each of the 4 pages, so you have up to 32 direct functions that can be re-named, if you wish, for each of the 11 main function selection buttons 9. You have up to 4 characters available for each direct function button name.

After completing all re-writing of any of the names, press the **OK** button within the cursor keys 16, or switch to another function button (such as CD). If, during re-naming, a button has not been pressed for 1 minute, the RC-18SR will revert to the prior operating mode (USE) automatically.

If re-writing of all of the desired direct mode functions has been completed, use the tip of a paper clip to press the operation **MODE** button 1, and select the "USE" mode. Now, all of the re-written names are available for use.

How to clear (erase) the memorized codes

(and any re-written names):

The RC-18SR has a high capacity RAM, which ordinarily will allow the learning of several hundred remote codes (and their associated new names, if desired). However, due to the fact that some remote codes occupy more memory space than others, it is possible that the available RAM fills up completely, and the "FULL" indicator appears in the LCD window. In this case, it will not be possible to learn any new remote codes without first deleting some or all of the previously learned remote codes and/or re-written names. There are 4 ways to erase learned remote codes from memory:

- Erasing by button(s)
- Erasing by DIRECT button(s)
- Erasing by function(s)
- Erasing all memory contents (complete erasure)
•• Note that the factory-programmed RC-5 codes are not stored in RAM, and are therefore not erasable.

For any of these memory erasure options, you must first set the RC-18SR to LEARN mode.

Erasing the memory assigned to a particular button:

Press and hold the **CLEAR** button 14 and press the button that you wish to erase 2 times. The code previously learned by that button will be erased, and will then be either empty, or the original factory provided RC-5 code will re-appear in its place.

Erasing the memory assigned to a DIRECT buttons:
All codes and names which were previously memorized for each of the functions (such as TV, LD, VCR, etc.) in pages can be erased. Press and hold the **CLEAR** button ⑭ and press the **<** or **>** button ⑧ 2 times. You will see the "DIR- CLR?" (direct button - clear?) indication in the LCD window (see Figure 5). If you wish to go ahead and clear all of the memorized codes for that **DIRECT** button (8 buttons x 4), press the **OK** button

Figure 5

```
    LD
  DIR-CLR ?
           LEARN
 SD-A RPTA
 SD-B RPTB
 DISP CP/F
 AMS  EDIT
 1  2  3  4
```
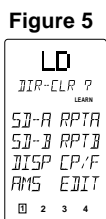
Erasing the memory assigned to each function command set:
All codes and names which were previously memorized for each of the functions (such as TV, LD, VCR, etc.) can be erased.
Press and hold the **CLEAR** button ⑭, and press the function button that you want to erase 2 times. You will see the "FNC - CLR?" (function - clear?) indication in the LCD window (see Figure 6).

Figure 6

```
    LD
  FNC-CLR ?
           LEARN
 SD-A RPTA
 SD-B RPTB
 DISP CP/F
 AMS  EDIT
 1  2  3  4
```
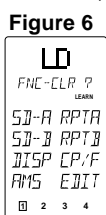
If you wish to go ahead and clear all of the memorized codes for that function button, press the **OK** button within the cursor keys ⑯. After clearing the memory contents for that function, the RC-18SR will restore any factory programmed RC-5 codes for the function, if any, or will simply be empty.
If you want to cancel the memory clear operation, do not press the "OK" button, but instead simply touch any other button. When you clear all the commands associated with a function button, all of the learned direct function commands (D-1 through D-8, pages 1 through 4) and control buttons, ten keypad, etc are cleared as well.

Complete erasure:
While holding the **CLEAR** button ⑭ depressed, press both of the **ON** and **OFF POWER** buttons ④ simultaneously; "**ALL-CLR?**" is displayed on the LCD window (see Figure 7).

Figure 7

```
    VCR
  ALL-CLR ?
           LEARN
 CH+  QTR
 CH-  REC
 SLCT PAUS
 AUD  STOP
 1  2  3  4
```
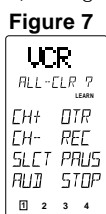
If you wish to finalize the complete erasure process, press the **OK** button within the cursor keys ⑯. If you do not wish to proceed with the complete erasure process, simply press any key other than **OK**. Remember, the RC-5 codes as supplied from the factory cannot be erased from memory, but they can be replaced with different codes as you wish.

● The all-clear operation takes about 15 seconds after the **OK** button is pressed.

● By now, you have learned how to memorize codes from other brands of components, including changing the various function, status, and direct function names.

Before continuing on to the more advanced RC-18SR programming techniques, you may wish to continue "teaching" the RC-18SR remote control with any or all other commands for other components in your system. When you feel you've transferred as many different commands from other components into the RC-18SR as you'd like, and possibly changed some or all of their names as well, then feel free to proceed to the next section.

ADVANCED PROGRAMMING TECHNIQUES

Macro mode:
The word "macro" is used to describe a series of specific steps carried out in sequence. For example, a word processing program can use macros to carry out common repetitive typing tasks. During the day to day operation of an A/V system, you might often find yourself pressing the same combination of remote control buttons.
The RC-18SR features the ability to "learn" a sequence of infrared commands, and "assign" that sequence to a single button, called a **MACRO** button ⑥. Then, when you want to achieve a specific result, you can activate a macro button to begin sending out a series of commands. For example, suppose you wish to activate your A/V system, and watch a movie on laser disc. A single macro button could send out the following commands in this suggested sequence:
● Turn the main amp power on, then turn the TV power on, then switch the TV to the AUX video input, then change the amp to the laser disc (LD) input, then turn the LD player power on, then activate the LD play command, then set the amp surround sound mode to Dolby Pro Logic.

The above 7 step sequence can be programmed into a single macro button, and can be used anytime you want to watch a LD movie. Other macro functions could be used for CD listening, or any other sequence of steps that you regularly perform while controlling your A/V system.
Macro commands are available when the RC-18SR is set to USE mode.
To program a macro, first identify which commands you wish to memorize, and note if any commands must be in a specific order (for example, before you can activate an amplifier's surround mode, the amp must first be turned on).

1. Press the **MACRO** ② operation mode button with the tip of a paper clip. Within the LCD window, the MACRO indication appears, then the LEARN indicator starts blinking (see Figure 8).

Figure 8

```
  MACRO


      LEARN

  MACR PROG
 1  2  3  4
```

If a macro was previously programmed, one or more of the numeric indicators at the bottom of the LCD window will appear with a box around it.

2. Press the **MACRO** button 1 ⑥ to begin memorizing the various codes. In the LCD display window the indicator "M1-00" appears in the status line ⓑ (see Figure 9).

Figure 9

```
  MACRO
 M1 00
        LEARN
 CD+  TRAY
 CD-  TIME
 FTS  REPT
 RNDM AMS
 1  2  3  4
```

The "M1-00" indication signifies Macro number 1, no steps yet programmed. As each macro step is programmed, the "00" indicator will advance by one digit-"01", "02", etc. After the first macro step is programmed, two additional digits (with a decimal in between) become visible at the end of the status line, showing the timing value for each step (see Figure 10).

Figure 10

```
   CD
 M1 01 0.5
        LEARN
 CD+  TRAY
 CD-  TIME
 FTS  REPT
 RNDM AMS
 1  2  3  4
```

3. Press the command buttons in the desired sequence. When you press a command button to be learned into the macro sequence, its name will appear within the LCD window. Every time you press another remote command, the macro step number increases one by one.

4. It is possible during macro programming to adjust the timing of the interval between several macro steps. Using the cursor keys **16**, the interval between macro playback steps can be increased or decreased in 1/2 second steps, over the range beginning at 1/2 second up to 10 seconds. For example, when the indicator shows "0.5 SEC", if you press the ◄ direction key, the interval time would change to 10 seconds, then with another press of the ◄ direction key, it would change to 9.5 seconds, etc. Use the ► direction key to increase the interval time, and use the ◄ direction key to decrease the interval time.

Some equipment may not be able to receive infrared commands in one-half second steps. If after programming a macro you find that the sequence was not properly carried out, you may wish to experiment with different sequence timings to obtain the correct operation results by using the adjustment method described above.

Within each **MACRO** button, up to 20 steps can be memorized. In the event that you wish to memorize more than 20 steps per macro, then press another **MACRO** button **6** , and follow the above operations. A maximum of 80 steps can be programmed this way. However, you will probably find that 20 steps is more than enough to carry out even the most complex macro instructions to achieve a specific home theater operating result.

Note:
To memorize the cursor button **16** except **OK** button, press and hold the **LIGHTING** button **20** before pressing the cursor button.

When programming macro steps, note that the following buttons would not normally be included in a macro sequence, and are therefore not available for inclusion in a macro:
MODE **1**, MACRO **2**, CLONE **3**, PAGE **8**, VOLUME **11**, MEMO **13**, CLEAR **14** and LIGHTING **20**.

To check to see which **MACRO** buttons **6** have been programmed with macros, at the beginning of the macro learning sequence the four numerical (1 through 4) indicators at the bottom of the LCD window will show a box around the number for each **MACRO** button that already has a macro assigned to it (see Figure 11, which shows that only **MACRO** button number 1 has a macro assigned to it).

Figure 11

```
PLAY
M1-03 0.5
CD+  TRAY
CD-  TIME
FTS  REPT
RNDM AMS
1  2  3  4
```

In the event that you wish to revise a programmed macro sequence, search the step number you wish to change by using the cursor button ▲ and ▼ **16**, and then re-enter the new command. If you memorized different commands than have already been programmed, then the previous macro sequence will be erased and re-written over with the new sequence. To add the new command, press the **MEMO** button at your desired point. To delete the sequence, press the **CLEAR** button at your desired point.

During macro programming, if a button is not pressed within 1 minute, the mode will automatically revert to the original mode (USE). When you have completed the macro programming sequence, press the **MACRO** **2** operation button with the the tip of a paper clip. The "END" indication appears in the LCD display window. When you release the **MACRO** button, all indications will revert to the initial status.

There is one more important point to note about programming a macro sequence. During a macro sequence, you may include more than one function selection button to access some transport and/or other commands. Depending on the macro sequence, this might result in the amplifier or receiver's function selection to be inadvertently changed as well when the macro is played back. The RC-18SR has a special feature to prevent this from occurring, allowing you to access the special commands available under each RC-18SR function button during a macro playback sequence, while at the same time preventing the amplifier or receiver from constantly switching its input source back and forth at the same time.

During the programming sequence, just remember that if you wish to activate a specific input selector on your amplifier or receiver, make sure that you press the desired input selection button FIRST. Subsequent function button selections can be incorporated in the macro sequence, but on playback, the RC-18SR will only send out a function selection infrared command to the amplifier or receiver based upon the first function command used in the macro sequence. For example, you may wish to have a macro sequence which activates the laser disc player input on your amplifier or receiver, and then have additional commands in the sequence to instruct your TV set to switch to an external video source to receive the laser disc video signal. During the macro programming, make sure that you press the **LD** function selector button BEFORE you press any of the other function selector buttons in the sequence. You can then include any of the TV commands by pressing the **TV** function selector button, later in the sequence. When this macro is next used (played back), the RC-18SR will send out the command to change the amplifier or receiver's input selector to laser disc input (since its function selector button was the first one programmed into that macro sequence), and will not subsequently change the amplifier or receiver's input to TV (but will send out any special TV commands that you included in the macro sequence).

Programming a macro under a function selector key:
If you wish, you can also program a macro that can be activated by pressing one of the function selector **9** keys. The programming steps are similar to the steps outlined for programming a macro number button **6**. The following example shows how to program a macro under the **LD** (laser disc) function selector **9**:
(activate the main amplifier's power on, switch the source to laser disc, switch the amplifier's surround mode to PRO LOGIC, switch on the television, switch to the television's AUX video input, power up the laser disc player, and begin laser disc playback)

1. Press the **MACRO** **2** operation mode button with the tip of a paper clip.
2. Press the **LD** function button **9**.
3. Press the following buttons:
   POWER ON, LD, AMP, direct function D-2 (Dolby mode selector) in page 1, TV*, SOURCE ON, direct function D-3 (VIDEO input selector) in page 1, LD*, SOURCE ON, and PLAY.
4. Press the **MACRO** **2** button with the tip of a paper clip. The RC-18SR will revert to the normal mode and save the macro under the **LD** function button.
5. To execute the new macro sequence, press and hold the **LD** function selector button for 3 seconds.

Using the macro function(s) you have programmed:
1. Press the desired **MACRO** ⑥ button. The corresponding macro number will appear at the bottom of the display window, Or if a macro has been programmed under a function button, press and hold that function button for 3 seconds. The LCD display window will indicate the macro number in the LCD window (see Figure 12), or if a macro is programmed under a function key, the status line will display the macro under function buttons as follows:

Figure 12

MACRO1

USE
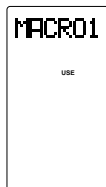
Macro under function button:	Status line shows:
LD	"LD" as the first 2 characters of the line
TV	"TV" as the first 2 characters of the line
VCR1	"VC" as the first 2 characters of the line
DSS/VCR2	"DS" as the first 2 characters of the line
AUX	"AX" as the first 2 characters of the line
TUNER	"TU" as the first 2 characters of the line
CD	"CD" as the first 2 characters of the line
TAPE	"TP" as the first 2 characters of the line
DVD	"DV" as the first 2 characters of the line
CD-R/MD	"CR" or "MD"as the first 2 characters of the line
AMP	"AP" as the first 2 characters of the line

2. The macro sequence will begin, and the remote control codes will be sent from the RC-18SR and the display will show the names of the transmitted codes.
3. When the macro transmit sequence has ended, the RC-18SR will return to the same mode as before, then the macro function was initiated.

Now that we've explained how to program a macro, perhaps the following suggested example can help you become more familiar with the process:
(to switch the RC-18SR to CD, then initiate CD playback, and go to track 3 on the CD)

1. Press the **MACRO** ② operation mode button with the tip of a paper clip.
2. Press one of the **MACRO** buttons (1 through 4).
3. Press the following buttons:
● CD function selector, then numeric key pad 3, then transport control key pad PLAY key. (see Figures 13, 14, and 15)
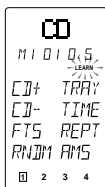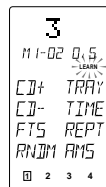
Figure 13	Figure 14	Figure 15
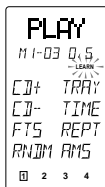
Note that this sequence will operate a Marantz CD player (or any other CD player equipped with the RC-5 remote control language). If you have another brand of CD player, you may wish to check its owner's manual to see if direct track selection is possible via remote, or if the macro sequence needs to be adjusted according to the programming steps required by your CD player.

4. Press the **MACRO** ② button with the tip of a paper clip. The RC-18SR will revert to the normal mode (see Figure 16).

Figure 16

END

5. To execute the new macro sequence, press the appropriate **MACRO** button (1 through 4) that you chose at the beginning of the above programming sequence. (see Figures 17, 18, and 19)
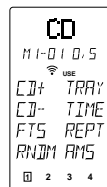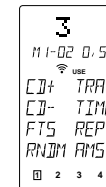
Figure 17	Figure 18	Figure 19
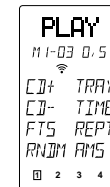
Note:
If you would like to cancel the MACRO function, press the **STOP** ⑮ button.

Now, we'll show you another macro programming example, with a more sophisticated sequence:
(activate the main amplifier's power on, switch the source to laser disc, switch the amplifier's surround mode to PRO LOGIC or Dolby Digital, switch on the television, switch to the television's AUX video input, power on the laser disc player, and begin laser disc playback).
1. Press the **MACRO** ② operation mode button with the tip of a paper clip.
2. Press one of the **MACRO** buttons (1 through 4).
3. Press the following buttons:
POWER ON, LD, AMP, direct function D-2 (Dolby mode) on page 1, TV*, SOURCE ON, direct function D-3 (VIDEO input selector) on page 1, LD*, SOURCE ON, and PLAY.
4. Press the **MACRO** ② button with the tip of a paper clip. The RC-18SR will revert to the normal mode.
5. To execute the new macro sequence, press the appropriate **MACRO** button (1 through 4) that you chose at the beginning of the above programming sequence.
● Note that the function selector buttons TV and LD marked with an asterisk (*) in this macro sequence do not actually send out infrared codes, but simply change over the RC-18SR's programmed memory code banks for those respective functions.
If you would like to clear the MACRO programmed sequence(s), press and hold the **CLEAR** ⑭ button and simultaneously press the appropriate **MACRO** button (1 through 4) or function button. "MR1-CLR?" appears in the LCD window. Release the buttons, and then press the **OK** button (within the cursor control buttons), and the macro is erased. If you do not wish to erase the macro, simply press any other button (but not the **OK** button).

CLONE mode:
Duplicating the memory contents of one RC-18SR to another RC-18SR or RC2000MK**II**.
For a complete home theater system, with numerous components from many different manufacturers, you may find that you have stored dozens, even hundreds of different codes, along with specialized names, macros, etc. We have provided a very quick and simple procedure that allows you to download the entire customized memory contents of one RC-18SR remote control into another RC-18SR or RC2000MK**II**.

To "clone" (duplicate) the memory contents of one RC-18SR

into another RC-18SR or RC2000MKII, please follow these steps:

1. Place the source RC-18SR (the one with all of the customized commands, names, macros, macro sequences, etc) with its infrared transmitter window 21 facing the receiving infrared sensor 22 of another "fresh" RC-18SR or RC2000MKII (5 cm, or 2 inches apart).

2. Press the **CLONE** button 3 of the source RC-18SR or RC2000MKII with the tip of a paper clip, and select "CLONE TX" (clone transmit) mode .

   Note:
   When using RC18SR, "RC2002" is displayed in LCD window. If the receiving remote control unit is RC2000MKII, then the display does not change. If the receiving remote control unit is RC-18SR, then the display is changed to "RC18SR" by pressing the cursor button ▲ 16. (see Figure 20)

Figure 20

```
RC2002
    CLONE TX
```
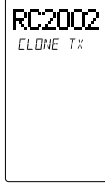
3. Press the **CLONE** button 3 of the learning (receiving) RC-18SR or RC2000MKII with the tip of a paper clip or a similar object, and select "**CLONE RX**" (clone receive mode).

   When using RC18SR, "RC2002" is displayed in LCD window. If the transmitting remote control unit is RC2000MKII, then the display does not change. If the transmitting remote control unit is RC-18SR, then the display is changed to "RC18SR" by pressing the cursor button ▲ 16. Then press the **PLAY** button 15.

   Note:
   When the transmitting remote control unit is RC2000MKII, then All clone does not activate. To clone the Function key, press the each Function key except DSS/VCR2 and AMP keys. Eight keys can be cloned at once. If All clone activates without pressing the Function button, "N/A" will display and the clone is not perfomed When the transmitting remote control unit is RC-18SR and receiving remote control unit is RC2000MKII, The DSS/VCR2, CD-R/MD and AMP keys cannot be cloned. To clone the Function key, press each Function key except DSS/VCR2, CD-R/MD and AMP keys.

Figure 21

```
    CLONE RX
```
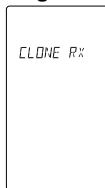
4. Press the source RC-18SR's or RC2000MKII's transport control **PLAY** 15 button to begin the infrared data transmission sequence. If you wish to duplicate only 1 to 8 function's memory, press the function button(s) you wish before pressing the PLAY button. Now the "**LEARN**" indicator of receiving RC-18SR starts to blink. (see Figure 23)

Figure 22

```
▮▮▮▮▮
    CLONE TX
       📶
```

Figure 23

```
▮▮▮▮▮
    CLONE RX
       ·LEARN·
```
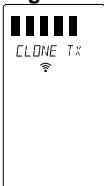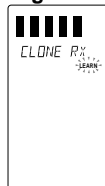
After all bars are lit up on both displays, "TX OK" (transmission OK) will appear in the source RC-18SR's LCD window, and "RX OK" (reception OK) will appear in the "cloned" RC-18SR's LCD window, confirming the end of the copying process (see Figures 24 and 25).

Figure 24

```
TX OK
    CLONE TX
```

Figure 25

```
RX OK
    CLONE RX
              LEARN
```
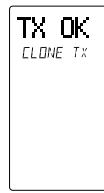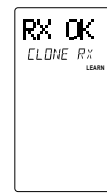
Please be sure that, during the copying process, neither RC-18SR is physically disturbed (ideally, they should be placed on a table or other surface, and not hand-held during the copying process). If, for some reason, the copying process was interrupted, the "clone" RC-18SR's LCD display window will indicate "RX NG" (reception no good). Simply begin the clone process anew by repeating the above steps.

Note:
Cloning is only available between the same remote control unit series, therefore the RC-18SR cannot be cloned by the RC2000.

5. If the source RC-18SR's memory contents are at or near full capacity, the copying process will take about 3 minutes. After completion of the copying (cloning) process, press the **CLONE** button 3 on both RC-18SR's with the tip of a paper clip, and select the OFF mode.

   Then, you'll have two identically programmed RC-18SR remotes, one of which can again be used as your system's primary remote control, and you'll have the added confidence of knowing that in the event of inadvertent programming (or memory contents being cleared somehow), you can simply retrieve the "backup" RC-18SR that you've safely tucked away, and within minutes restore the programming contents of the original RC-18SR with your customized configuration.

Note:
Some direct keys are marked "♦" in Direct Command Functions Listing (page 28 to31). The "♦" mark means as follows;
When RC-18SR is cloned with RC2000MKII, the name of the direct key can be cloned, however the remote control code (the factory preset code) cannot be cloned. Only learned remote control codes can be cloned. Then the remote control code is learned by "LEARN mode". Refer to page 21.

The table of cloning relations

Transmitting / Receiving	RC-18SR	RC2000MKII
RC-18SR	ALL OK	only FUNC.
RC2000MKII	only FUNC.	ALL OK

ALL OK: All functions can be cloned.
only FUNC.: The following functions cannot be cloned;
        RC-18SR: DSS/VCR2, CD-R/MD, AMP
        RC2000MKII: DSS/MD, AMP

OTHER FUNCTIONS

The Marantz RC-18SR includes the ability to tailor the lighting features according to your preferences. As supplied from the factory, the RC-18SR has lighting features (and lighting timings):

The lighting time is set at the factory for a period of 2 seconds which you can change if you prefer a different lighting time. If you wish to maximize battery life, you can de-active the lighting function entirely.

There is also a lighting button 20, so that in any light situation, you can activate the backlighting feature. The lighting time in this case is set at the factory for a period of 2 seconds, which you can also change. If you wish to conserve battery power, you can de-activate the lighting function entirely.

RC-5 Shipped destination:

As mentioned earlier in this guide, the RC-18SR is provided with many commands from the factory with infrared codes conforming to the Philips RC-5 remote control language (used by Marantz, Philips, and some other companies). We have provided two different RC-5 command code sets in the RC-18SR, dueto the local requirements of different markets and the different types of remote control codes used in those markets. One code set is for North American (USA) users, while the other code set is for REST users. Your RC-18SR has been set at the factory for USA (United States) codes. It can be easily changed, if you wish.

Set-Up:

To change the lighting time(s), or the destination setting, please follow these steps:

● Select the SETUP mode, by holding the **MEMO** button 13 and at the same time pressing the **OK** button within the cursor keys 16. (see Figures 26 and 27)

Figure 26

```
SETUP

LAMP  5 5
BEEP OFF
VER  USA
TIMR  0 M
```

Figure 27

```
SETUP

LAMP OFF
BEEP +++
VER  REST
TIMR 30 M
```

LAMP - Lighting function ON or OFF and TIME

Press the D-5 direct function button, and you can then set the time (in seconds) directly using the numeric key pad 12 buttons. A time figure consisting of only 1 digit can be input by pressing the figure then waiting for 2 seconds or input "0" before entering a desired digit. You can set time in the range from 0 up to 60 seconds (More time would use up more battery life than fewer seconds). "2" is set when shipped from the factory. To set "OFF" input "0".

BEEP sound

The beep sounds when any buttons are pressed except the **AMP** button.

The beep sound level can be set by pressing the **D-6** button. The display indicates "+" indication and the beeps are sounded by pressing the **D-6** button. The "+" indication is followed, by another the "+" indication as the beep sound is increased; + → ++ → +++ → ++++

When the "++++" appears, this is the maximum. If the **D-6** button is pressed once more, it will reset to OFF.

"♪" is indicated in the LCD window when the beep sound is set.

Note:

The beep sound is different between the function buttons and other buttons.

VER

Press the **D-7** direct function button to switch between USA and REST.

If you need to change this function, we recommend that you make the change before you begin "learning" any new infrared codes for other brands of equipment in your system.

Note:

The name of the **DIRECT** buttons will be erased if the USA/REST version is pressed.

Battery life:

● Battery life will vary from user to user, if the remote is used constantly or only occasionally, including the amount of backlighting usage. We feel that you can expect the batteries to last about 4 months, based upon 15 remote control operations per day (every day), and 3 lighting operations per day (every day). If the remote is used more often, and if the lighting times are set to longer times than the factory settings, then the battery life may be shortened somewhat.

● As explained earlier in the guide, the RC-18SR's sophisticated battery conservation system will advise you long before the battery power is fully exhausted, and will further warn you to replace the batteries by simply becoming inoperative at a certain point. The customized memory contents and user-adjusted settings will still be retained in memory. When you install a fresh set of batteries, the memory contents are protected always, because the RC-18SR uses the non-volatile memory. Alkaline (and the newer lithium) types are recommended for longest battery life.

As you become more familiar over time with how you are using the RC-18SR in your A/V system, you may wish to consider reducing the lighting time(s) if possible, as this can help to extend the battery life.

Adjustment of the LCD contrast

● The LCD contrast can be adjusted as follows;

Enter SETUP mode of the RC-18SR by pressing the MEMO and OK buttons. Press the VOL+ to increase the LCD contrast. Press the VOL - to decrease the LCD contrast. Press the OK button to end this setting and return the original operation.

DIRECT COMMAND FUNCTIONS LISTING

Within the RC-18SR LCD window, each of the 8 Direct Function buttons has 4 character labels attached for pre-programmed remote commands. These commands can be used with various Marantz A/V components, or other components using the Philips RC-5 remote control language.

You can easily replace the factory-supplied remote command codes with different codes from other brands of equipment. Most functions that are supplied apply to a wide variety of equipment from many companies. The following list shows the remote code assignments for the direct function buttons, for each of the 11 main function selector buttons, as supplied from the factory. You can add or replace function commands, including re-naming them if you wish, in order to customize the RC-18SR for your own particular selection of A/V components.

AMP	1 MODE-1	1 AUTO	selects Auto select surround modes
		2 DOLB	selects Dolby Digital or Pro Logic decoding
	⊗	3 THX	selects THX cinema decoding
		4 DTS	selects DTS decoding
		5 HALL	Hall surround sound
		6 MTRX	Matrix surround sound
		7 MOV	Movie surround sound
		8 2-CH	Stereo sound (no surround)
	2 MODE-2	1 A/D	switches analog / digital input
		2 DIR	switches source direct
		3 ATT	switches attenuater for analog input
		4 OSD	switches on screen display
	⊗	5 MONO	monaural decoding
	⊗	6 3-D	3-D surround decoding
		7 NITE	selects NIGHT mode for Dolby Digital
		8 MLTI	activates multi-room mode
	3 MODE-3	1 TRB+	increases treble
		2 TRB-	decreases treble
		3 BAS+	increases bass
		4 BAS-	decreases bass
	⊗	5 R-EQ	activates RE-EQ function
		6 CH+	next channel (up)
		7 LVL+	increases channel level volume
		8 LVL-	decreases channel level volume
	4 PROCESSOR ⊗	1 VOL+	increases external decoder's volume
	⊗	2 VOL-	decreases external decoder's volume
		3 6-CH	activates 6 channel setup
	⊗	4 BYP	bypasses external processor's decoding
		5 SLEP	activates sleep timer function
		6 DISP	activates display off function
		7 MODE	selects surround mode
	⊗	8 PHNO	selects phono function
TUNER	1 BAND	1 FM	FM band
		2 AM	AM/MW band
	⊗	3 LW	long wave band
		4 BAND	selects radio band
		5 MODE	mono/stereo/muting mode selector
	⊗	6 TIME	time display
		7 F/P	frequency or preset channel display
		8 SCAN	programmed preset channel scan

The marked "⊗" keys are not used for SR8000.
See page 26 to refer the marked "♦" keys.

TUNER	2 REC	1 TP-1	commands for Tape 1 control (NO output)
		2 REC	record
		3 PAUS	pause
		4 STOP	stop
		5 TP-2	commands for Tape 2 control (NO output)
		6 REC	record
		7 PAUS	pause
		8 STOP	stop
	3 RDS (for REST only)	1 STM	selects station mode
		2 AF	selects AF function
		3 PTY	selects PTY function
		4 DISP	selects display function
		5	
		6	
		7	
		8 DWR	selects DSR wave range
CD	1 MODE	1 CD+	CD changer next disc
		2 CD -	CD changer previous disc
	♦	3 TEXT	activates text function
		4 RNDM	random (shuffle) play function
		5 TRAY	tray open/close
		6 TIME	time display elapsed/remaining/total
	♦	7 RCL	recall program memory
		8 AMS	automatic music scan
	2 CHANGER1	1 CD1	selects Disc 1
		2 CD2	selects Disc 2
		3 CD3	selects Disc 3
		4 CD4	selects Disc 4
		5 CD5	selects Disc 5
		6 EDIT	tape edit function
	♦	7 REPT	repeat function
		8 CNCL	cancel track programming
	3 CHANGER2	1 UNIT	selects unit No.
	♦	2 DISC	selects disc No.
		3 TR	selects track No.
		4 CATG	selects category
		5 MODE	selects mode
		6 TITL	selects function title mode
		7 T-S	selects title search
		8 ENT	selects enter
	4 REC	1 TAPE	commands for Tape control (no output)
		2 REC	record
		3 PAUS	pause
		4 STOP	stop
		5 MD	commands for MD control (no output)
		6 REC	record
		7 PAUS	pause
		8 STOP	stop
TAPE	1 MODE	1 TP-A	selects tape deck A

TAPE	1 MODE	2 TP-B	selects tape deck B
		3 DIR	auto-reverse direction
		4 TIME	time display
		5 TRAY	tray open/close
		6 AMS	automatic music scan
		7 REC	record
		8 PAUS	pause
DVD	1 MODE1	1 ANGL	selects angle
		2 TITL	selects title menu
		3 SUBT	selects subtitle
		4 MENU	selects main menu
		♦ 5 OSD	activates on screen display
		6 AUD	selects audio
		7 SET	selects setup menu
		8 RTN	returns to menu
	2 MODE2	1 SLOW	slow forward
		2 LPLY	last play function
		3 RNDM	shuffle play function
		4 RPT	repeat modes
		5 A/B	repeat A to B
		6 +10	digit entry +10
		7 T/C	title and chapter
		8 ZOOM	zoom mode on/off
	3 KARAOKE	1 ONOF	karaoke on/off
		2 ONCE	once more play again
		3 MELO	melody play
		4 VOCL	vocal support play
		5 MODE	karaoke modes
		6 3-D	surround processor on/off
		7 VSLF	very slow forward
		8 VSLR	very slow reverse
	4 REC	1 VCR1	selects VCR1 control (no output)
		2 REC	record
		3 PAUS	pause
		4 STOP	stop
		5 MD	selects MD control (no output)
		6 REC	record
		7 PAUS	pause
		8 STOP	stop
LD	1 MODE	1 SD-A	side A
		2 SD-B	side B
		3 DISP	display on/off
		4 AMS	automatic music scan
		5 RPTA	Repeat A start point
		6 RPTB	Repeat B stop point
		7 CP/F	selects chapter or flame
		8 EDIT	activates tape edit function
	2 LD	1 MSP+	increases CAV multi-speed
		2 MSP-	decreasesCAV multi-speed
		3 FRM+	frame advance
		4 FRM-	frame reverse

LD	2 LD	5 MS-F	CAV multi-speed forward direction
		6 MS-R	CAV multi-speed reverse direction
		7 AUD	Stereo, left only, right only channel
		8 D/CX	digital audio, analog audio, CX NR
	3 REC	1 VCR1	commands for VCR 1 control (NO output)
		2 REC	record
		3 PAUS	pause
		4 STOP	stop
		5 VCR2	commands for VCR 2 control (NO output)
		6 REC	record
		7 PAUS	pause
		8 STOP	stop
	4 VCD (for REST only)	1 PBC	selects playback control
		2 KARA	selects karaoke
		3 IDX+	index up
		4 IDX-	index down
		5 SEL	play or select audio
		6 RTN	stop or select return
		7 NEXT	next track
		8 PREV	previous track
TV	1 MODE (for USA only)	1 A/CH	alternate channel
		2 100S	100's
		3 VID	video
		4 INFO	information
		5 VOL+	increases TV volume
		6 VOL-	decreases TV volume
		7 MUTE	mute sound on/off
		♦ 8 OSD	activates on screen display
	2 MODE/MENU (for USA only)	1 S-PI	smart picture
		2 S-SO	smart sound
		3 S-CH	smart channel
		4	
		5 MENU	menu
		6 ADV	advance
		7 STAT	status
		8	
	3 PIP1 (for USA only)	1 PIP	PIP on/off
		2 SWAP	PIP swap
		3 FREZ	PIP freeze
		4 POSI	PIP position
		5 SIZE	PIP size
		6 STRO	PIP strobe
		7 PREV	PIP preview
		8 RPLY	PIP instant replay
	4 PIP2/REC (for USA only)	1 CLR	PIP clear
		2 SLOW	PIP slow motion
		3	
		4	
		5 VCR1	

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Device	Mode	Key	Function
TV	4 PIP2/REC	6 REC	record
		7 PAUS	pause
		8 STOP	stop
TV	1 MODE (for REST only)	1 CH +	next channel (up)
		2 CH -	previous channel (down)
		3 CH-C	channel call
		4 VID	external (aux) video input
		5 VOL+	increases TV volume
		6 VOL-	decreases TV volume
		7 MUTE	mute sound on/off
		8 OSD	on screen display on/off
	2 MENU/CBL (for REST only)	1 MENU	activates menu
		2 SLP	activates sleep timer
		3 CBL +	cable tuning next channel
		4 CBL -	cable tuning previous channel
		5 ADV	advances to next menu page
		6 STAT	shows current status
		7 M-UP	Menu up (next)
		8 M-DN	Menu down (previous)
	3 REC (for REST only)	1 VCR1	commands for VCR 1 control
		2 REC	record
		3 PAUS	pause
		4 STOP	stop
		5 VCR2	commands for VCR 2 control (NO output)
		6 REC	record
		7 PAUS	pause
		8 STOP	stop
	4 TV TXT (for REST only)	1 T/PG	switches time display
		2 HOLD	activates page hold
		3 ENLG	selects large of text page
		4 RVL	selects display of text page
		5 CNCL	activates cancel picture
		6 PG+	increases page
		7 PG-	decreases page
		8 ENT	enters the next page
VCR1	1 MODE	1 CH+	next channel (up)
		2 CH-	previous channel (down)
		3 SLCT	selects TV or VCR
		4 AUD	audio track selector
		5 OTR	one touch recording
		6 REC	record
		7 PAUS	pause
		8 STOP	stop
	2 PLAY MODE	1 2XPL	twice normal playback speed
		2 SLOW	slower than normal playback speed
		3 STIL	still frame
		4	
		5 SKIP	skip to next program marker
		6 VIS+	VHS index search next
		7 VIS-	VHS index search previous
VCR1	2 PLAY MODE	8	
	3 MENU	1 MENU	activates menu
		2 STAT	shows current status
		3 CLR	clear programming
		4 GOTO	go to next item
		5 PLUS	video PLUS
		6	
		7	
		8	
DSS	1 DSS	1 DISP	brings up on screen channel marker
		2 PREV	goes to previously selected channel
		3 CH+	next channel
		4 CH-	previous channel
		5 FAV	favorite users and channel lists
		6 ALT	alternate audio channel, languages
		7 FTCH	brings up on screen channel logos
		8 ANT	selects broadcast or cable antenna
	2 MODE	1 CH+	next channel
		2 CH-	previous channel
		3 SLCT	selects TV or VCR
		4 AUD	audio track selector
		5 OTR	one touch recording
		6 REC	record
		7 PAUS	pause
		8 STOP	stop
	3 PLAY MODE	1 2XPL	two times play speed
		2 SLOW	slow speed play
		3 STIL	still frame
		4	
		5 SKIP	skip to next program
		6 VIS+	VHS index search next
		7 VIS-	VHS index search previous
		8	
	4 MENU	1 MENU	activate menu
		2 STAT	show current status
		3 CLR	clear programming
		4 GOTO	go to next item
		5	
		6	
		7	
		8	
AUX	1 REC	1 VCR1	commands for VCR 1 control (NO output)
		2 REC	record
		3 PAUS	pause
		4 STOP	stop
		5 VCR2	commands for VCR 2 control (NO output)
		6 REC	record
		7 PAUS	pause
		8 STOP	stop

AUX	2 VCD/PHI 1 (for REST only)	1 CD+ 2 CD- 3 OSD 4 SCAN 5 A/B 6 SLOW 7 8	selects disc up selects disc down OSD on/off selects time search repeat A to B slow forward
	3 VCD/PHI 2 (for REST only)	1 PBC 2 KARA 3 IND+ 4 IND- 5 SEL 6 RTN 7 NEXT 8 PREV	selects playback control selects karaoke program selects video index up selects video index down selects in PBC returns in PBC next previous
	4 VCD/PHI 3 (for REST only)	1 CD+ 2 SHUT 3 OVEW 4 RESM 5 CHAN 6 FADR 7 8	selects disc up selects shutter function selects digest function selects last paly function selects channel selects MPX/vocal fader
MD (for REST only)	1 MODE 1	1 MD-A 2 MD-B 3 RPT 4 DISP 5 EJCT 6 AMS 7 RNDM 8 LP	selects MD A selects MD B selects repeat modes selects display modes eject automatic music scan randam display selects SP/LP mode
	2 EDIT	1 EDIT 2 CHAR 3 DEL 4 ENT 5 AMRK 6 SYNC 7 PROG 8	selects edit mode selects character mode selects delete selects enter selects auto marker syncro REC selects program mode
	3 REC	1 MD 2 RECP 3 PAUS 4 STOP 5 TAPE 6 REC 7 PAUS 8 STOP	command MD (no output) REC-pause pause stop command tape (no output) record pause stop
CD-R (for USA only)	1 REC	1 INPT 2 INCR 3 SYNC	selects input source increments track number activates SYNCRO. recording

CD-R	1 REC	4 REC 5 TRAY 6 DISP 7 FINL 8 BLNK	records pause opens/closes tray dispaly mode finalizes (writes TOC) records blank
	2 MODE	1 PROG 2 REPT 3 FTS 4 FAST 5 VOL+ 6 VOL- 7 IDX+ 8 IDX-	activates program mode activates repeat mode activates FTS mode searches FAST increases volume decreases volume increases index decreases index

ENGLISH

SURROUND MODES

The SR8000 incorporates digital signal processors (DSP) which can reproduce various surround effects you experience in concert halls and movie theaters, etc. Nine Surround Modes, are provided to reproduce a variety of surround sound effects, according to the content of the source to be played.

Surroud mode	FEATURES
1. AUTO	When this mode is selected, the receiver determines whether the digital input signal is Dolby Digital, PCM-audio or DTS. **Note:** 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 processing before play. 96 Khz source matirial can be play back in this mode.
2. STEREO	This mode bypasses all surround processing. Stereo program sources the left and right channels play normaly 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 matirial can be play back in stereo mode.
3. DOLBY	This mode is used with source materials encoded in Dolby Digital and Dolby Surround. Dolby Pro Logic processing can be used on Dolby Surround encoded two channel source material (Dolby Digital two channels, PCM-audio and Analog stereo). This allows play of the four discrete channels (left, center, right and surround). **Note:** PCM-audio signals can be subjected to Pro Logic processing when the sampling frequency is 32 kHz, 44.1 kHz or 48 kHz. When a signal in another format is input, output will be muted.
4. DTS Cinema Music	This mode is for DTS encoded source materials such as LASER DISC, CD, and DVD. In the DTS Music mode, the LFE signal is reduced by 10 dB. With DTS music material, you should select the DTS Music mode. When playing DTS movie discs select DTS cinema mode for proper reproduction of the LFE channel. The DTS mode cannot be used when an Analog input has been selected. When the signal in another digital format is input, output will be muted.
5. MOVIE HALL 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 signals can be processed in this mode when sampling frequency is 32 kHz, 44.1 kHz or 48 kHz. The 96 kHz sampling frequency mutes output.
6. 5-STEREO	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. Addtionally, the center channel reproduces a mix of the right and left channel.
7. S-Direct ON	In the source direct mode, the tone control circuite and bass management configuration are bypassed for full range frequeancy responce and the purist audio reproduction. 96 Khz source matirial 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 are also defeated.

Caution for DTS signal:
This signal can be played when the connected DVD-player, laser-disc player or CD-player is capable of DTS-digital output. For details, refer to the player's operation manual.

Depending on the player used, DTS play may produce noise. If that happens, set the Surround mode to DTS.

Playing a DTS-CD or DTS laser disc causes the player's analog output terminal to output noise. Before playing DTS sources, be sure to connect the player's digital output to the SR8000's digital input. Be careful when connecting the output of these players to analog audio input.
Note that the SR8000 has the following restrictive functions built in to reduce noise emission as much as possible.
If DTS is selected while in the Surround mode, digital input cannot be switched to analog input. When the analog input function has been selected, Surround mode cannot be switched to DTS.
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.

Caution for 96kHz PCM-audio signal:
This signal can be played when a DVD-player or DAT-player connected to the SR8000 is capable of 96 kHz PCM output. For details, refer to the player's operation manual.
The signal can be played when STEREO or AUTO has been selected for the Surround mode.
Some DVD formatted discs featured copy protect. When use 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 buttons of the SR8000 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				Fluorescent Indicator			LED Indicator
		L/R	LS/RS	C	SW	Encoded	Mode	status (14seg)	Ch. Status
AUTO	Dolby Digital (5.1 ch)	○	○	○	○	DD	DD Digital, Auto		L, C, R, LS, RS, LFE
	Dolby Digital (2 ch)	○	–	–	○	DD	DD Digital, Auto		L, R
	Dolby Digital (2 ch: Lt/Rt)	○	○	○	○	DD	DD Digital, Auto, Pro Logic		L, R, S
	96kHz PCM	○	–	–	○	PCM	Stereo, Auto	96 kHz	L, R
	PCM (audio)	○	–	–	○	PCM	Stereo, Auto		L, R
	Analog	○	–	–	○	ANALOG	Stereo, Auto		–
	DTS (5.1 ch)	○	○	○	○	DTS	dts, Auto		L, C, R, LS, RS, LFE
STEREO	Dolby Digital (5.1 ch)	○	–	–	○	DD	STEREO		L, C, R, LS, RS, LFE
	Dolby Digital (2 ch)	○	–	–	○	DD	STEREO		L, R
	Dolby Digital (2 ch: Lt/Rt)	○	–	–	○	DD	STEREO		L, R, S
	96kHz PCM	○	–	–	–	PCM	STEREO	96 kHz	L, R
	PCM (audio)	○	–	–	○	PCM	STEREO		L, R
	Analog	○	–	–	○	ANALOG	STEREO		–
	DTS (5.1 ch)	○	–	–	○	DTS	STEREO		L, C, R, LS, RS, LFE
DOLBY	Dolby Digital (5.1 ch)	○	○	○	○	DD	DD Digital		L, C, R, LS, RS, LFE
	Dolby Digital (2 ch)	○	○	○	○	DD	DD Digital, Pro Logic		L, R
	Dolby Digital (2 ch: Lt/Rt)	○	○	○	○	DD	DD Digital, Pro Logic		L, R, S
	96kHz PCM	–	–	–	–	(PCM)	DD Digital	96 kHz	–
	PCM (audio)	○	○	○	○	PCM	Pro Logic		L, R
	Analog	○	○	○	○	ANALOG	Pro Logic		–
	DTS (5.1 ch)	–	–	–	–	DTS	DD Digital		–
DTS Cinema	Dolby Digital (5.1 ch)	–	–	–	–	(DD)	dts	No data	–
	Dolby Digital (2 ch)	–	–	–	–	(DD)	dts	No data	–
	Dolby Digital (2 ch: Lt/Rt)	–	–	–	–	(DD)	dts	No data	–
	96kHz PCM	–	–	–	–	(PCM)	dts	96 kHz	–
	PCM (audio)	–	–	–	–	(PCM)	dts	No data	–
	Analog	–	–	–	–		dts	No data	–
	DTS (5.1 ch)	○	○	○	○	DTS	dts	–	L, C, R, LS, RS, LFE
DTS Music	Dolby Digital (5.1 ch)	–	–	–	–	( )	dts	No data	–
	Dolby Digital (2 ch)	–	–	–	–	(DD)	dts	No data	–
	Dolby Digital (2 ch: Lt/Rt)	–	–	–	–	(DD)	dts	No data	–
	96kHz PCM	–	–	–	–	(PCM)	dts	96 kHz	–
	PCM (audio)	–	–	–	–	(PCM)	dts	No data	–
	Analog	–	–	–	–		dts	No data	–
	DTS (5.1 ch)	○	○	○	○	DTS	dts	–	L, C, R, LS, RS, LFE
HALL MATRIX MOVIE	Dolby Digital (5.1 ch)	○	○	○	○	DD	Movie, Hall or Matrix	–	L, C, R, LS, RS, LFE
	Dolby Digital (2 ch)	○	○	○	○	DD	Movie, Hall or Matrix	–	L, R
	Dolby Digital (2 ch: Lt/Rt)	○	○	○	○	DD	Movie, Hall or Matrix	–	L, R, S
	96kHz PCM	–	–	–	–	(PCM)	Movie, Hall or Matrix	96 kHz	–
	PCM (audio)	○	○	○	○	PCM	Movie, Hall or Matrix	–	L, R
	Analog	○	○	○	○	ANALOG	Movie, Hall or Matrix	–	–
	DTS (5.1 ch)	○	○	○	○	DTS	Movie, Hall or Matrix	–	L, C, R, LS, RS, LFE
5-STEREO	Dolby Digital (5.1 ch)	○	○	○	○	DD		5 CH	L, C, R, LS, RS, LFE
	Dolby Digital (2 ch)	○	○	○	○	DD		5 CH	L, R
	Dolby Digital (2 ch: Lt/Rt)	○	○	○	○	DD		5 CH	L, R, S
	96kHz PCM	–	–	–	–	(PCM)		96 kHz	–
	PCM (audio)	○	○	○	○	PCM		5 CH	L, R
	Analog	○	○	○	○	ANALOG		5 CH	–
	DTS (5.1 ch)	○	○	○	○	DTS		5 CH	L, C, R, LS, RS, LFE
S-Direct	Dolby Digital (5.1 ch)	○	○	○	○	DD	DD Digital, Auto	S-DIRECT	L, C, R, LS, RS, LFE
	Dolby Digital (2 ch)	○	–	–	–	DD	DD Digital, Auto	S-DIRECT	L, R
	Dolby Digital (2 ch: Lt/Rt)	○	○	○	–	DD	DD Digital, Auto, Pro Logic	S-DIRECT	L, R, S
	96kHz PCM	○	–	–	–	PCM	Stereo, Auto	S-DIRECT	L, R
	PCM (audio)	○	–	–	–	PCM	Stereo, Auto	S-DIRECT	L, R
	Analog	○	–	–	–	ANALOG	Stereo, Auto	S-DIRECT	–
	DTS (5.1 ch)	○	○	○	○	DTS	dts, Auto	S-DIRECT	L, C, R, LS, RS, LFE
6ch Input	–	○	○	○	○	–	–	6CH-INPUT	–

Note:

Dolby Digital (2 ch: Lt/Rt): signal with Dolby Surround flag Speajers are full set.

L/R : Front speaker
LS/RS : Surround speaker
C : Center speaker
SW : Sub woofer speaker

( ): The indicator blinks

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TROUBLESHOOTING

In case of trouble, check the following before calling for service:
1. Are the connections made properly ?
2. Are you operating the unit properly following 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
SR8000 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 = NO 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-cinema or DTS-music..
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 normal PCM signal (CD or laser disc) cannot be played.	Surround mode is set to DTS-cinema or DTS-music.	Select other mode.
A Dolby Digital signal cannot be played.	Surround mode is set to DTS-cinema or DTS-music.	Select other mode.
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.
Nothing appears on the remote commander display.	Batteries are consumed.	Replace all the batteries with new ones.
Control with the remote control unit fails.	Batteries are consumed.. Remote controller's function-key setting is wrong. The distance between this SR8000 and the remote commander is too far. Something is blocking SR8000 and the remote commander.	Replace all the batteries with new ones.. Select different position from which equipment will be controlled. Move closer to this SR8000. 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

ERROR MESSAGES

When the display indicates some error messages (e.g. ERROR **), unplug the power cable immediately. Contact your dealer, nearest Marantz distributor or the Marantz service center in your area.

Memory backup
- In case a power outage occurs or the power cord is accidentally unplugged, the SR8000 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 SR8000 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.
The SR8000 is turned on, press and hold the **CLEAR** ⑬ and **DISPLAY OFF** buttons ⑪ simultaneously for 3 seconds or more.
Remember that the procedure will reset the settings of the function selector, Surround mode, delay time, TUNER PRESET etc., to their initial settings.

TECHNICAL SPECIFICATIONS

FM TUNER SECTION

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

AM TUNER SECTION

Frequency Range .... 520 - 1710 kHz
Signal to Noise Ratio .... 50 dB
Usable Sensitivity .... Loop 400 μV
Distortion .... 1 kHz, 30 % Mod. 0.5 %
Selectivity .... ± 20 kHz 70 dB

AUDIO SECTION

Continuous Power Output
    FRONT (20 Hz - 20 kHz) .... 8 ohms 100W / Ch
    Center (20 Hz - 20 kHz) .... 8 ohms 100W / Ch
    Surround (20 Hz - 20 kHz) .... 8 ohms 100W / Ch
THD Front (20 Hz - 20 kHz) .... 8 ohms 0.05 %
Input Sensitivity/Impedance
    Linear .... 316 mV/ 47 Kohms
Signal to Noise Ratio
    Linear .... 105 dB

VIDEO

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 (STEREO MODE RATED POWER) .... 360 W
Dimension (MAX)
    Width .... 18 inches (458 mm)
    Height .... 6-1/4 inches (159 mm)
    Depth .... 18-1/8 inches (460 mm)
    Weight .... 33.1 lbs (15.0 Kg)

ACCESSORIES
Remote Control Unit RC-18SR 1
AA-size batteries 4
FM Feeder Antenna 1
FM Antenna Converter 1
AM Loop Antenna 1

Specifications subject to change without prior notice.

COUNTRY	COMPANY	ADDRESS
AUSTRALIA	Scan audio Pty. Ltd.	4 Station Street, Thornleigh NSW 2120, Australia
AUSTRIA	Huber & Prohaska GmbH	Taborstraße 95 / Ladestraße 1, Gebäude Hangartner, A-1200 Wien, Austria
BELGIUM	Van der Heyden Audio N.V.	Brusselbaan 278, 9320 Erembodegem, Belgium
BULGARIA	Ariescommerce GmbH	Makedonia Blvd. 16, 1606 Sofia, Bulgaria
CANADA	Lenbrook Industries Limited	633 Granite Court, Pickering, Ontario
CYPRUS	Empire Hifi systems Ltd.	P.O. Box 5604, Nicosia, Cyprus
CZECH REPUBLIC	Audio International	Fugnerova 1, 67801 Blansko, Czech Republic
DENMARK	Hi-Fi Klubben Denmark	Aboulevarden 1, DK-8000 Arhus C., Denmark
DUBAI	V.V.& SONS	P.O. Box 105, Dubai, U.A.E.
ESTONIA	Audio International Baltic	Lo Hu 12, EE0026 Tallin, Estonia
F.Y.R.O.M.	T.P. KODI	ul.Cedomir Kantargiev 21a, Skopje, Former Yugoslavian Republic of Macedonija
FINLAND	Hi-Fi Klubi Finland	Uudenmaankatu 4-6, SF-00120 Helsinki, Finland
FRANCE	Marantz France	A division of Marantz Europe B.V., P.O. Box 301, 92 156 Suresnes Cedex, France
GERMANY	Marantz Deutschland	Hakenbusch 3, 49078 Osnabrück, Germany
GREECE	Adamco S.A.	188, Hippocratous Street, 11471 Athens, Greece
HEADQUARTERS EUROPE:	Marantz Europe B.V.	Building SFF-2, P.O. Box 80002, 5600 JB Eindhoven, The Netherlands
HONG KONG	Marantz Asia Ltd.	Unit 1706, Metroplaza II, 223 Hing Fong Road, Kwai Fong, N.T., Kowloon, Hong Kong
HUNGARY	Infovox Ltd.	Terez Krt.31, 1067 Budapest, Hungary
ICELAND	Radiobudin HF	Skipholti 19, P.O. Box 424, 121 Reykjavik, Iceland
INDIA	Marantz India	c/o Philips India Ltd., Plot 80, Bhosari Industrial Estate Pune - 411026, India
IRAN	Home Co.	5th floor no 878 Philips Building Enghelab ave, P.O. 11365/7844 Tehran, Iran
IRELAND	Marantz Ireland	Clonskeagh, Dublin 14, Ireland
ISRAEL	Elmor Ltd.	52 Heh Beiyar Street, Kikar Hamedina, Tel Aviv, Israel
ITALY	Marantz Italy	Via Casati 23, 20052 Monza (Milano), Italy, Servizio Consumatori 1678-20026, Numero Verde
JAPAN	Marantz Japan Inc.	35-1 Sagami Ohno 7-Chome, Sagamihara-shi, Kanagawa 228-8505, Japan
KOREA	Mk Enterprises Ltd.	#604 Electro-officetel, 16-58, 3GA Hangang-ro, Yongsan-ku, Seoul 140-013 Korea
KUWAIT	alAlamiah Electronics Intl.	P.O. Box 8196, Salmiah 22052, Kuwait
LATVIA	Ace Ltd.	61, LacPlesa Str., Riga LV 1011, Latvia
LEBANON	AZ Electronics S.A., 1,	P.O. Box 11 2833, Beirut, Lebanon
LITHUANIA	A Accapella Ltd.	Ausros, Vartu G5, Pasazo Skg., 2001 Vilnius, Lithuania
MALAYSIA	Wo Kee Hong Electronics Sdn. Bhd.	102 Jalan SS 21/35, Damansara Utama, 47400 Petaling Jaya, Selangordarul Ehsan, Malaysia
MALTA	Doneo Co Ltd.	78 The Strand, Sliema SLM07, Malta
MAURITIUS	SKR Electronics Ltd.	P.O. Box 685, Bell Village, Port Louis, Mauritius
NETHERLANDS	Marantz Trading	A division of Marantz Europe B.V., Building SFF-2, P.O. Box 80002, 5600 JB Eindhoven, The Netherlands
NEW ZEALAND	Scan audio Pty. Ltd.	4 Station Street, Thornleigh NSW 2120, Australia
NORWAY	Hi-Fi Klubben Norway	Lillegrensen 7, N-0159 Oslo, Norway
OMAN	Mustafa & Jawad Trading CO.	P.O. Box 1918, Ruwi, Oman
POLAND	Marantz Polska	Ul. Marszalkowska 45/49, 00-648 Warszawa, Poland
PORTUGAL	Corel2	Comércio de Electrónica Lda., Av. Luís Bívar, No 85 A, 1050 Lisboa, Portugal
PROFESSIONAL EUROPE	Marantz Professional Products	Kingsbridge House, Padbury Oaks, 575-583 Bath Road, Longford, Middlesex UB7 0EH, U.K.
PROFESSIONAL U.S.A.	Marantz Professional Products	Distributed by: Superscope Technologies Inc., 1000 Corporate Blvd. Ste.D, Aurora, Illino
QATAR	Almana & Partners W.W.L.	P.O. Box 49, Doha, Qatar
REUNION	Vision +	180 Rue du Marechal Leclerc, 97400 Saint Denis, Ile de la Reunion
ROMANIA	Alltrom SRL	Soseaua Bucuresti, Ploiesti 10, Sector 1, Bucharest, Romania
RUSSIA	Trade Company SV	Bld. 2, 7 Montazhnaya Street, 107497 Moscow, Russia
SAUDI ARABIA	Ultimate Fidelity	Sameria Comm. Center, Roadah Dist., P.O. Box 7760, Jeddah 21472, Saudi Arabia
SINGAPORE	Forward Marketing (S) Pte. Ltd.	Wo Kee Hong Centre, 29 Leng Kee Road, Singapore 159099, Singapore
SLOVAKIA	Audio International Slovakia	Nam. SNP 10, 96001 Zvolem, Slovakia
SLOVENIA	Bofex	Smartinska 152, HALA V/3, 61000 Ljubljana, Slovenia
SOUTH AFRICA	Coherent Imports (PTY) Ltd.	P.O. Box 1614, Alberton, 1450, South Africa
SPAIN	Marantz Spain	Martinez Villergas 2, Apartado 2065, Madrid 28027, Spain
SWEDEN	Hi-Fi Klubben A.B.	Tegnersgatan 21, S-412 52 Gotenborg, Sweden
SWITZERLAND	Sound Company AG	Postfach, 8010 Zürich, Switzerland
TAHITI	Covecolor	Av. Prince Hinoi, Cours de l'union sacré, P.O. Box 2334, Papeete, Tahiti
TAIWAN	Pai-Yuing Co. Ltd.	6th No 148 Sung Kiang Road, Taipei 10429, Taiwan R.O.C.
THAILAND	MRZ Standard Co. Ltd.	746-750 Mahachai Road, Wangburapa, Bangkok 10200, Thailand
TURKEY	Penta Elektronic	Sanayi Ve Ticaret Ltd. Sti., Selvi Kokak, No. 4/1, Senlikkoy, 34810 Florya, Istanbul, Turkey
U.K.	Marantz Hifi UK Ltd.	Kingsbridge House, Padbury Oaks, 575-583 Bath Road, Longford, Middlesex UB7 0EH, U.K.
U.S.A.	Marantz America Inc.	440 Medinah Road, Roselle, IL 60172, U.S.A.
YUGOSLAVIA	ITM	Ljutice Bogdana la, Belgrade, Yugoslavia
EXPORT	Marantz Trading	A division of Marantz Europe B.V., Building SFF-2, P.O. Box 80002, 5600 JB Eindhoven, The Netherlands

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