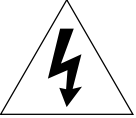

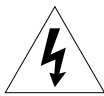


marantz®

Model SR8400 User Guide

AV Surround Receiver

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



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



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

WARNING

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

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

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

NOTE TO CATV SYSTEM INSTALLER:

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

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the

equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

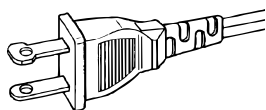
9. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



1. Read Instructions – All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions – The safety and operating instructions should be retained for future reference.
3. Heed Warnings – All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions – All operating and use instructions should be followed.
5. Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Attachments – Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture – Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

10. Ventilation – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11. Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

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



AC POLARIZED PLUG

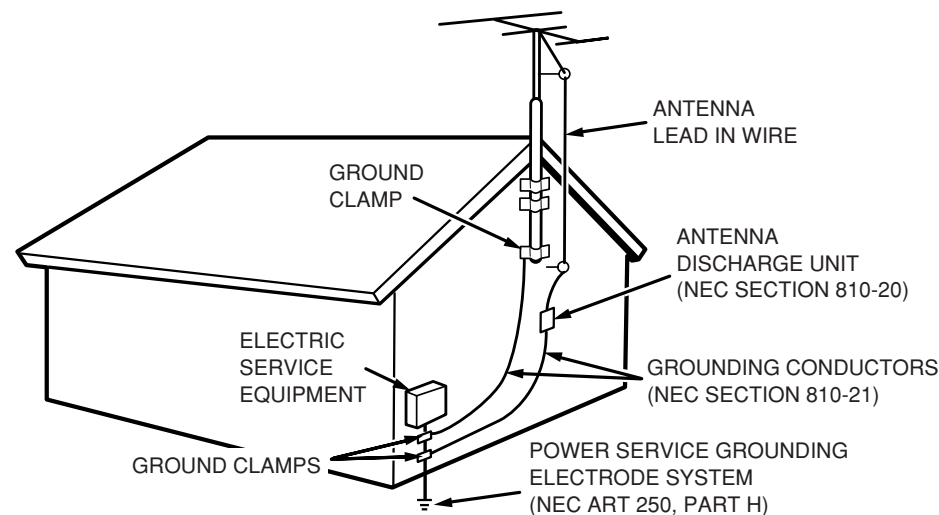
13. Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
14. Protective Attachment Plug – The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
15. Outdoor Antenna Grounding – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 1.

16. Lightning – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
17. Power Lines – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
18. Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
19. Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
20. Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
21. Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
- When the power-supply cord or plug is damaged.
 - If liquid has been spilled, or objects have fallen into the product.
 - If the product has been exposed to rain or water.

- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way, and
- When the product exhibits a distinct change in performance – this indicates a need for service.

22. Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
23. Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
24. Wall or Ceiling Mounting – The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
25. Heat – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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



NEC - NATIONAL ELECTRICAL CODE

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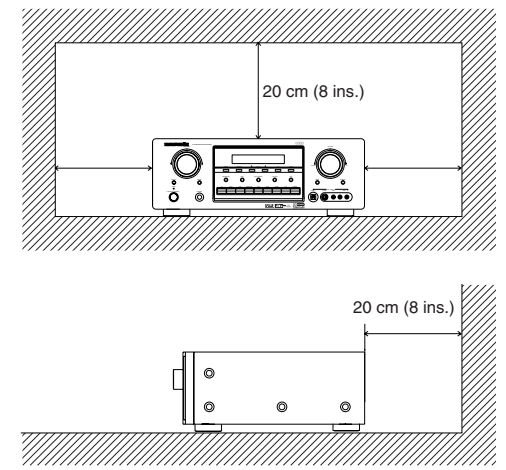
INTRODUCTION

Thank you for purchasing the Marantz SR8400 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 SR8400. As there are a number of connection and configuration options, you are encouraged to discuss your own particular home theater setup with your Marantz A/V specialist dealer.

PRECAUTIONS

CAUTIONS ON INSTALLATION
For heat dispersal, leave at least 20 cm/8 inch of space between the top, back and sides of this unit and the wall or other components.

- Do not obstruct the ventilation holes.



DESCRIPTION



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

DTS brings you premium quality discrete multichannel digital sound to both movies and music.

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

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

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

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

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



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

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

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

Neo:6 offers several important improvements as follow,

- Neo:6 provides up to six full-band channels of matrix decoding from stereo matrix material. Users with 6.1 and 5.1 systems will derive six and five separate channels, respectively, corresponding to the standard home-theater speaker layouts.
- Neo:6 technology allows various sound elements within a channel or channels to be steered separately, and in a way which follows naturally from the original presentation.

- Neo:6 offers a music mode to expand stereo nonmatrix recordings into the five- or six-channel layout, in a way which does not diminish the subtlety and integrity of the original stereo recording.



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

In addition to the 5.1 surround channels (FL, FR, C, SL, SR and LFE), DTS-ES Extended Surround also offers the SB (Surround Back) channel for surround playback with a total of 6.1 channels. DTS-ES Extended Surround includes two signal formats with different surround signal recording methods, as DTS-ES Discrete 6.1 and DTS-ES Matrix 6.1.

"DTS", "DTS-ES Extended Surround" and "Neo:6" are trademarks of Digital Theater Systems, Inc.



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

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

When DVD-video appeared, it became possible to deliver 24-bit, 96 kHz audio into the home, but only in two channels, and with serious limitations on picture. This capability has had little use. DVD-audio allows 96/24 in six channels, but a new player is needed, and only analog outputs are provided, necessitating the use of the D/A converters and analog electronics provided in the player.

DTS 96/24 offers the following:

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



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

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

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

About Dolby Pro Logic IIx

Dolby Pro Logic IIx technology delivers a natural and immersing 7.1-channel listening experience to the home theater environment. A product of Dolby's expertise in surround sound and matrix decoding technologies, Dolby Pro Logic IIx is a complete surround sound solution that maximizes the entertainment experience from stereo as well as 5.1-channel encoded sources.


Dolby Pro Logic IIx is fully compatible with Dolby Surround Pro Logic technology and can optimally decode the thousands of commercially available Dolby Surround encoded video cassettes and television programs with enhanced depth and spatiality. It can also process any high-quality stereo or Advanced Resolution 5.1-channel music content into a seamless 6.1- or 7.1-channel listening experience.

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



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

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

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





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

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

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

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

Microsoft, , and the  logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

FEATURES

The SR8400 incorporates the latest generation of digital surround sound decoding technology such as Dolby Digital EX, Dolby Digital, DTS ES (Discrete 6.1 and Matrix 6.1), DTS Neo:6 (Cinema, Music), Dolby Pro-Logic II (Movie and Music), Dolby Pro-Logic Ix (Movie, Music and Game), Circle Surround II (Cinema and Music). In addition, Marantz has focused on the future. By utilizing pre-out jacks, 7.1 direct inputs and a RS-232C communication port, the SR8400 is tomorrow's technology, today!

The SR8400 features a fully discrete 7 channel amplifier section capable of delivering 110 watts of high-current amplification, for continuously clean and stable power into each of the 7 channels. It employs a massive EI power transformer in combination with oversized filter capacitors. Current feedback topology allows total operation stability, while requiring minimal amounts of negative feedback, resulting in an excellent transient frequency response and superb sonic transparency. This design configuration is capable of a clear and powerful reproduction of the most demanding action movie soundtracks and full range (multichannel) music discs. Through its ability to generate very high output voltages, the SR8400 can easily drive the most demanding speakers with optimum results.

The SR8400 incorporates the most advanced Digital Signal Processing circuitry, along with a Crystal® 192 kHz/24 bit D/A converter in each of the 7 channels. Independent power supply circuits are incorporated for the FL display, audio and video sections for maximum separation, clarity and dynamic range. Together with hand-selected customized components, all elements work in harmony to recreate the emotion, exactly as the artist had intended.

The SR8400 is designed and engineered with extensive feedback from custom installation experts, dealers and consumers. It features multi-room/multisource, assignable DC trigger, a RS-232C communication port, Flasher input, heavy duty speaker binding posts and an extensive array of both analog and digital inputs / outputs. With 6 assignable digital inputs (7 total), 2 assignable component inputs, SACD Multi Channel (7.1 channel) direct inputs video convert system and a speaker-B and OSD output versatility is taken to a stunning new level. Furthermore, the SR8400 can output the OSD information through the Y/C (S-video) and composite video outputs.

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

The new generation of Marantz Receivers is stylish and completely symmetrical. On the front panel of the SR8400, buttons are kept to a minimum. Source selectors and volume controls are intuitively placed. The large left dial knob on the left can be used as multi dial which allows all functions of the SR8400 to be operated via the front panel. The SR8400 is here to perform in your unrivaled home entertainment setup.

The TruSurround Headphone technology provides a surround sound listening experience over headphones.

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

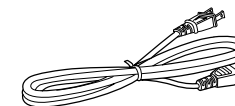
- Dolby Digital EX, Dolby Digital , DTS ES (Discrete 6.1, Matrix 6.1, Neo: 6)
- Dolby Pro Logic II (Movie, Music)
- Dolby Pro Logic Ix (Movie, Music, Game)
- Circle Surround II (Movie, Music, Mono)
- 7 x 110 Watts (8 Ohm), Discrete Amplifiers
- High Power Current Feedback Circuitry
- Massive Energy Power Supply, Huge toroidal Transformer, Large ELCO's.
- 192 kHz/24 bit Crystal® DAC for all 8 Channels
- 32 bit Digital Surround Processing Chipsets
- Video Off Mode
- Large Heavy Duty Banana Type Speaker Terminals for all Channels
- RS-232C Terminal for Future Upgrade or System Control
- Set Up Menu via all Video Output (Composite, S-Video and Component video)
- Auto Input Signal Detection
- Improved Station Name Input Method, 50 Presets
- Auto Adjust Function for Speaker Distance Settings (Delay Time)
- Front Optical AUX Input (Digital Camera, Portable DVD)
- Large Multi Operation Left Dial Knob
- Assignable DC Trigger Output
- Programmable, learning remote control
- Flasher Input
- Video convert system
- Built in HDCD decoder

ACCESSORIES

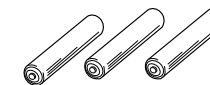
Remote Controller RC1400



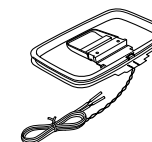
AC cable



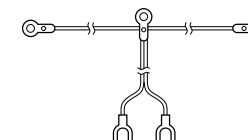
AAA-size batteries X 3



AM Loop Antenna



FM Feeder Antenna

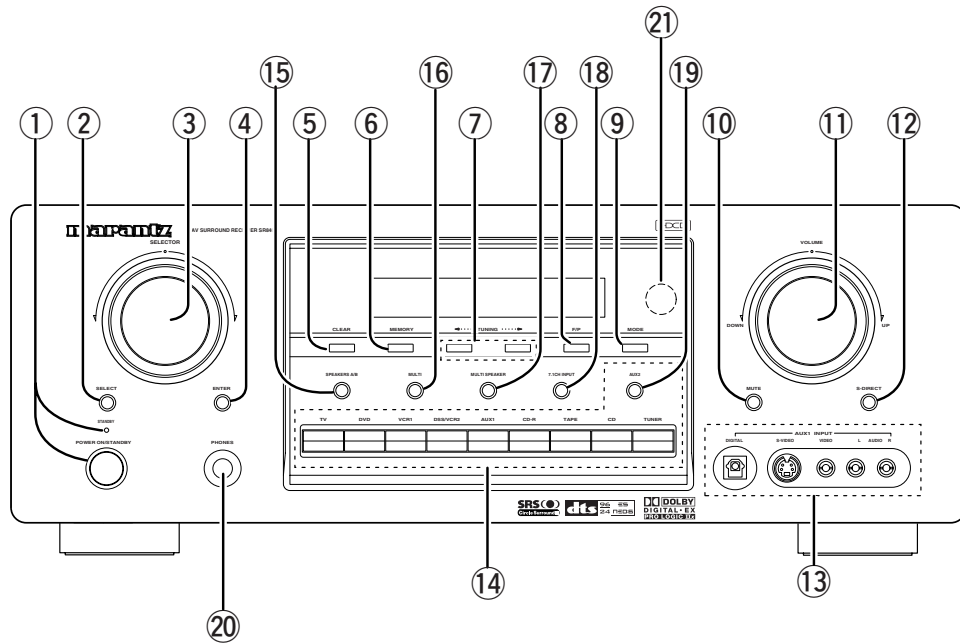


FM Antenna converter



Registration Card User Guide

FRONT PANEL



① POWER switch and STANDBY indicator
When this switch is pressed once, the unit turns ON and the display illuminates. When pressed again, the unit turns OFF and the STANDBY indicator will be illuminated.

② SELECT (MULTI FUNCTION MODE SELECT) button
Press this button to change the mode of the MULTI FUNCTION control dial. I.e. Surround Sound Fields, Tone Control & Set Up Menu.

③ SURROUND MODE Selector & MULTI FUNCTION control dial
This dial changes surround modes & Tone Controls sequentially, and allows you to enter the OSD menu system.

④ ENTER (MULTI FUNCTION ENTER) button
Press this button to enter the setup, which you have chosen by the MULTI FUNCTION dial.

⑤ CLEAR button
Press this button to cancel the station-memory setting mode or preset scan tuning. (See page 28)

⑥ MEMORY button
Press this button to enter the tuner preset memory numbers or station names. (See page 28)

⑦ TUNING ◀ (Down) / ▶ (Up) buttons
Press these buttons to change the frequency or the preset number. (See page 28)

⑧ F/P (Frequency / Preset) button
During reception of AM or FM, you can change the function of the UP/DOWN buttons for scanning frequencies or selecting preset stations by pressing these buttons. (See page 28)

⑨ 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. (See page 28)

⑩ MUTE button
Press this button to mute the output to the speakers. Press it again to return to the previous volume level.

⑪ VOLUME control knob
Adjusts the overall sound level. Turning the control clockwise increases the sound level.

⑫ 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 follows.
Front SPKR = Large, Center SPKR = Large, Surround SPKR = Large, Sub woofer = On

⑬ AUX1 input jacks
These auxiliary video/audio and optical digital input jacks accept the connections of a camcorder, portable DVD, game etc.

⑭ (19) INPUT FUNCTION SELECTOR buttons (AUDIO/ VIDEO)
These buttons are used to select the input sources. The video function selector, such as TV, DVD, VCR1, DSS and AUX1, selects video and audio simultaneously.

Audio function sources such as CD, TAPE, CDR/ MD TUNER and AUX2 may be selected in conjunction with a Video source. This feature (Sound Injection) combines a sound from one source with a picture from another. Choose the video source first, and then choose a different audio source to activate this function. Press the TUNER button to switch between FM and AM.

⑮ SPEAKERS A/B button
Press these buttons to select speakers systems A and/or B.

⑯ MULTI (Multi Room) button
Press this button to activate the Multiroom system. "MULTI" indicator will be illuminated in the display.

⑰ MULTI SPEAKER button
Press this button to activate the Multiroom Speaker system. "MULTI" indicator will be illuminated in the display.

⑱ 7.1CH IN button
Press this button to select the output of an external multichannel decoder.

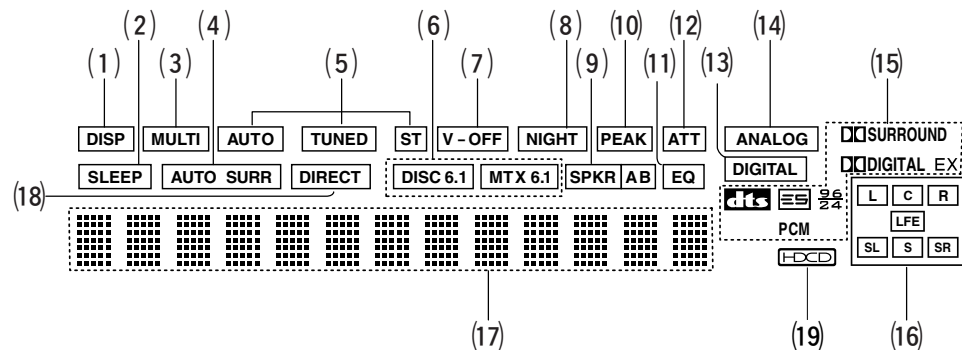
⑲ AUX2 button
This button is used to select the AUX2 (L/R input of 7.1 CH. IN).

⑳ HEADPHONE jack for stereo headphones
This jack may be used to listen to the SR8400's output through a pair of headphones. Be certain that the headphones have a standard 1 / 4" stereo phono plug. Note that the main room speakers will automatically be turned off when the headphone jack is in use.

Notes:

- When using headphones, the surround mode will change to STEREO and TruSurround (TS) headphones by SURROUND MODE selector.
- The surround mode returns to the previous setting as soon as the headphone plug is removed from the jack.

㉑ INFRARED receiving sensor window
This window receives infrared signals for the remote control.



(1) DISP (Display Off) indicator

This indicator is illuminated when the SR8400 is in the display off condition.

(2) SLEEP timer indicator

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

(3) Multi-room system indicator

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

(4) AUTO SURR (Auto Surround mode) indicator

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

(5) TUNER's indicators

AUTO : This indicator illuminates when the tuner's Auto mode is in use.

TUNED : This indicator illuminates when a station is being received with sufficient signal strength to provide acceptable listening quality.

ST(Stereo) : This indicator illuminates when an FM station is being tuned into stereo condition.

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

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

(7) V (video)-OFF mode indicator

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

(8) NIGHT mode indicator

This indicator is illuminated when the SR8400 is in the Night mode, which reduces the dynamic range of digital program material at low volume levels.

(9) SPKR (speaker) AB indicator

Active speaker system will be illuminated by this indicator.

(10) PEAK indicator

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

(11) EQ mode indicator

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

(12) ATT (Attenuation) indicator

This indicator is illuminated when the attenuation function is active.

(13) DIGITAL Input Indicator

This indicator lights when a digital input has been selected.

(14) ANALOG input indicator

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

(15) SIGNAL FORMAT indicators

DIGITAL, EX, SURROUND, dts, ES, 96/24, PCM

When the selected input is a digital source, some of these indicators will be illuminated to display the specific type of signal in use.

(16) ENCODED CHANNEL STATUS indicators

These indicators display the channels that are encoded with a digital input signal. If the selected digital input signal is Dolby Digital 5.1ch or DTS 5.1ch, "L", "C", "R", "SL", "SR" and "LFE" will be illuminated. If the digital input signal is 2 channel PCM-audio, "L" and "R" will be displayed.

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

(17) Main Information Display

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

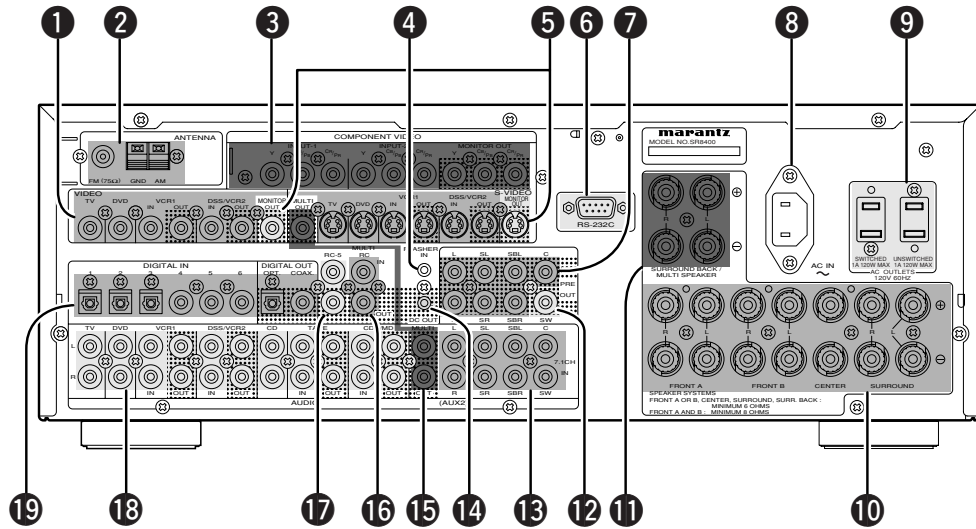
(18) DIRECT (Source direct) indicator

This indicator is illuminated when the SR8400 is in the SOURCE DIRECT mode.

(19) HDCD indicator

When HDCD signal is decoded, this indicator will light up.

REAR PANEL



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

These are the video inputs and outputs. There are 4 video inputs and 2 video outputs and each one includes both composite video and S-video configurations. Connect VCRs, DVD players, and other video components to the video inputs. S-video sources can be viewed through the S-video outputs, and composite sources can only be viewed through the composite output. The 2 video output channels can be used to be connected to video tape recorders for making recordings.

2 FM antenna terminal (75 ohms)

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

AM antenna and ground terminals

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

3 COMPONENT VIDEO INPUT/OUTPUT

If your DVD player or other device has component video connectors, be sure to connect them to these component video connectors on the SR8400. The SR8400 has two component video input connectors to obtain the color information (Y, C_B, C_R) directly from the recorded DVD signal or other video component and one component video output connector to output it directly into the matrix decoder of the display device.

By sending the pure DVD component video signal directly, the DVD signal forgoes the extra processing that normally would degrade the image. The result is vastly increased image quality, with incredibly life like colors and crisp detail.

4 FLASHER IN (Flasher input terminal)

This terminal is to control the unit from each zone. Connect the control signal from a Keypad, etc.

5 MONITOR OUT

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

6 RS-232C

The RS-232C port is to be used in conjunction with an external controller to control the operation of the SR8400 by using an external device. The RS-232C port may also be used in the future to update the operating software of the SR8400 so that it will be able to support new digital audio formats and the like as they are introduced.

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

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

8 AC INLET

Plug the supplied power cord into this AC INLET and then into the power outlet on the wall. SR8400 has to be powered by 120 V AC only.

9 AC OUTLETS

Connect the AC power cables of components such as a DVD and CD player to these outlets. SWITCHED and UNSWITCHED outlets are provided. The one marked SWITCHED provides power only when the SR8400 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 SR8400 is plugged into a live outlet. A component connected here may be left on permanently, or may be switched off with via its own power switch.

Caution:

- In order to avoid potential turn-off thumps, anything plugged into these outlets should be powered up before the SR8400 is turned on.
- The capacity of this AC outlet is 120W. Do not connect devices that consume electricity more than the capacity of these AC outlets. If the total power consumption of the connected devices exceeds the capacity, the protection circuit shuts down the power supply.

10 Speaker outputs terminals

Seven terminals are provided for the front (A) left, front (A) right, front (B) left, front (B) right, front center, surround left and surround right speakers.

11 Speaker outputs terminals (for multi room or surround back)

Two terminals are provided for the front the left, and right speakers for multi room (2nd zone) or surround back.

12 Subwoofer Output

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

13 7.1 CHANNEL or AUX2 INPUT

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

14 DC TRIGGER output terminal

Connect a device that needs to be triggered by DC under certain conditions (screen, power strip, etc...)

Use the system OSD setup menu to determine the conditions by which these jack will be active.

Note:

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

15 Multiroom Outputs (Audio L&R, Video)

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

Connect these jacks to optional audio power amplifiers or video display devices to listen and view the source selected by the multiroom system in a remote room.

16 MULTI ROOM REMOTE IN/OUT terminals

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

17 REMOTE CONT. IN/OUT terminals

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

18 AUDIO IN/OUT (CD, TAPE, CD-R, TV, DVD, VCR1, DSS/VCR2)

These are the analog audio inputs and outputs. There are 7 audio inputs (4 of which are linked to video inputs) and 4 audio outputs (2 of which are linked to video outputs). The audio jacks are nominally labeled for cassette tape decks, compact disc players, DVD players and etc.... The audio inputs and outputs require RCA-type connectors.

19 DIGITAL INPUT (Dig.1 - 6) / OUTPUT (coaxial, optical)

These are the digital audio inputs and outputs. There are 3 digital inputs with coaxial jacks, 3 with optical jacks.

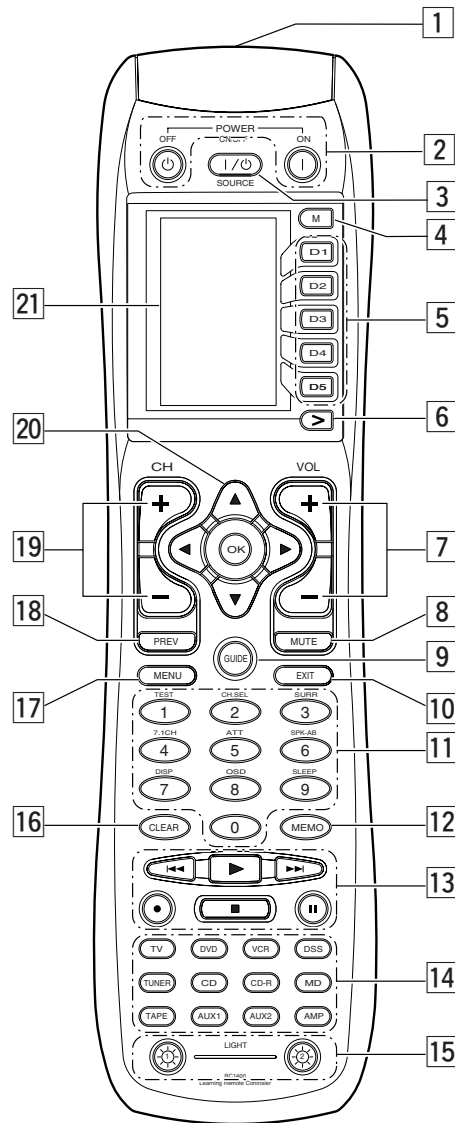
The inputs accept digital audio signals from a compact disc, LD, DVD, or other digital source component.

For digital output, there is 1 coaxial output and 1 optical output.

The digital outputs can be connected to MD recorders, CD recorders, DAT decks, or other similar components.

REMOTE CONTROLLER RC1400

NAMES AND FUNCTIONS



1 Infrared Transmitter and Learning Sensor

This transmitter emits infrared light. Press the buttons while pointing the transmitter towards the infrared receiver window of the SR8400 or other AV equipment. Be sure to also point towards other remote controls when using the learning function.

2 POWER ON and OFF buttons

(When AMP mode is selected)

These buttons are used to turn the SR8400 on or off.

3 SOURCE ON/OFF button

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

4 M (Mode) button

This button is used to program Macros. Pressing this button switches between Normal mode and Macro mode.

The > button is used to move to the next page. Up to 20 programs (4 pages) can be made. Holding down the M button for three seconds or more switches to the Setup mode, where the Setup menu is shown on the LCD. The Setup menu has four pages, and the > button is used to move to the next page. Pressing the > button from page 4 returns you to page 1.

5 D1 to D5 (Direct) buttons

Five types of direct operations can be performed for each of the 12 source buttons such as the DVD, television, amplifier, and other AV equipment. The pages can be switched, so 4 pages x 5 types = 20 operations can be performed for a single source. The text display can also be changed.

6 > (Page) button

This button is used to switch pages for the Direct button. The current page is shown on the LCD.

7 VOL (Volume) button

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

Note:

- Set the AMP mode to use this button with the SR8400.

8 MUTE button

This button is used to mute the audio for the SR8400 and television.

Note:

- Set the AMP mode to use this button with the SR8400.

9 GUIDE button

This button is used to display the menus for the DVD player, DSS (satellite broadcasting tuner), or other AV equipment.

10 EXIT button

(when AMP mode is selected)

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

11 Numeric buttons

These buttons are used to switch between 0 to 9 of the source components. If the source is set to the amplifier, these buttons are used to perform operations.

(when AMP mode is selected)

(1) TEST button

Used to enter the test tone menu.

(2) CH SEL. (channel select) button

Used to call up SETUP MAIN MENU and adjust speaker levels or 7.1 ch input level.

(3) SURR (surround) button

Used to select the surround mode.

(4) 7.1CH IN button

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

(5) ATT button

When the input signal is too high and the voice distorts even by throttling the SR8400 VOLUME control, turn on this function. "ATT" is indicated when this function is activated.

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

Note:

- This function is unavailable during the digital input is selected.

(6) SPK-AB button

Speaker mode is switched in the following sequence.

A → B → A+B → off

(7) DISP. button

Selects the display mode for the front display of the SR8400.

(8) OSD button

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

(9) SLEEP (sleep timer) button

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

12 MEMO button

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

13 CONTROL button

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

Note:

- This button is unavailable for the SR8400.

14 SOURCE button

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

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

Note:

- Select the AMP as the source to use this remote control with the SR8400.

15 LIGHT 1 and 2 buttons

Pressing these buttons will light up the LCD and its buttons. This lighting time can be set. If the lighting time is set to 0 seconds, the backlight turns on only while this button is pressed. The operations for LIGHT 1 and 2 are identical.

16 CLEAR button

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

17 MENU button

(when AMP mode is selected)

This button is used to call up the SETUP MAIN MENU of the SR8400.

18 PREV (Previous) button

This button is used to return to the previous channel on the television or other device.

Note:

- This button is unavailable for SR8400.

19 CH (Channel) button

This is used to change channels.

20 CURSOR buttons

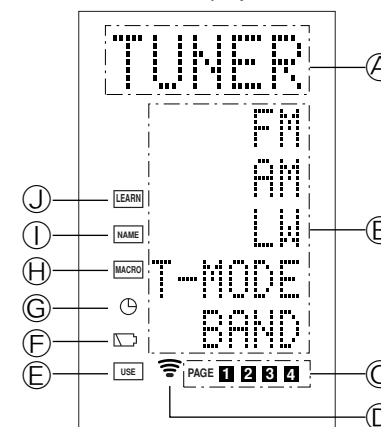
These buttons are used when controlling the cursor of the SR8400, DVD, or other AV equipment.

21 LCD

Information about the sources and modes are shown on the LCD.

LCD INDICATORS

Information about currently selected source and direct code names are displayed on the LCD.

**A Source Name indicator**

This displays the name of the selected source, such as DVD, television, or other AV equipment (up to five characters).

B Direct Button Name indicator

This displays up to 20 types of button names for each source. (up to six characters)

C Page indicator

This displays the current page position.

D Transmission indicator

This lights up when the remote control is sending a signal.

E USE indicator

This is displayed under normal operation.

F Battery Level indicator

This is displayed when the battery level is low.

G TIMER indicator

This is displayed when the macro timer is set.

H MACRO indicator

This is displayed when the remote control is in macro programming mode.

① **NAME indicator**

This is displayed when the remote control is in renaming mode.

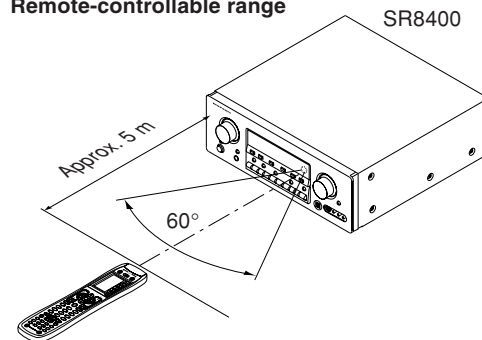
② **LEARN indicator**

This is displayed when the remote control is in learning mode.

REMOTE CONTROL RANGE

The distance between the transmitter of the remote control and the IR SENSOR of the SR8400 should be less than 5 meters. If the remote control is pointed in a direction other than the IR SENSOR or if there is an obstacle between them, use of the remote control may not be possible.

Remote-controllable range

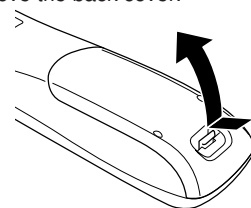


Remote control unit (RC1400)

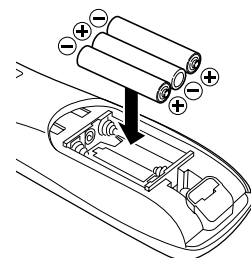
LOADING BATTERIES

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

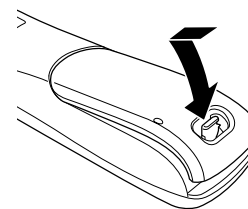
1. Remove the back cover.



2. Insert the new batteries (AAA type) with correct (+) and (-) polarity.



3. Close the cover until it clicks.



Note:

Do not use old batteries and new batteries together. This can result in corrosion or leakage of battery fluid.

The supplied manganese batteries are for checking operation. Usage of alkaline batteries is recommended.

When discarding batteries, be sure to follow the local regulations for your area. Do not put batteries in a fire.

BATTERY REPLACEMENT INTERVAL

Under normal usage, alkaline batteries last approximately four months. When the batteries wear out, a battery mark is displayed on the LCD. Although the remote control can still be used when the battery mark is displayed, the batteries should be replaced as soon as possible. The LCD eventually starts to flash when buttons are pressed, the remote control will be unable to transmit signals or learn codes.

- This remote control uses non-volatile memory so that the learned codes and macro programs are retained even if the batteries are removed. Reset the clock after replacing the batteries.

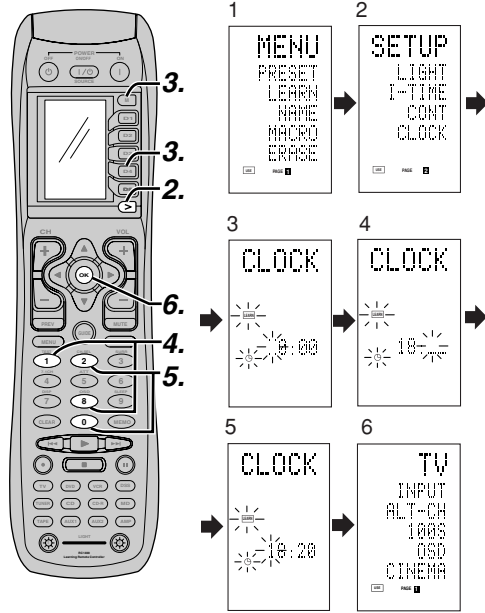
Safety Precautions for Batteries

Be sure to always observe the following precautions to prevent fluid leakage, overheating, fire, breakage, accidental ingestion, and other accidents.

- If the batteries are left unused for a long period of time, the battery fluid may leak or the batteries may corrode.
- Do not use the batteries in the remote control with the plus and minus polarity reversed.
- Do not attempt to recharge, heat, or disassemble the batteries. Do not put the batteries in a fire.
- Do not use the remote control with old batteries or worn-out batteries inserted.
- Do not use different types of batteries or mix old and new batteries in the remote control.
- If the remote control is not operating properly, replace the batteries with new ones.
- If any of the batteries are leaking, completely wipe up all leaked battery fluid, and then replace the batteries with new ones.

SETTING THE TIME

Example: Setting to 6:20PM (18:20)



Whenever the batteries are replaced, the clock shows 00:00. Please reset the clock. (The time setting is not backed up.)

CHECKING THE TIME

To check the time, hold down the > button for three seconds or more. The current time is displayed for five seconds.

Note

Although the remote control uses a quartz clock, the time may become out of sync over the course of operation. Be sure to correct the clock from time to time.

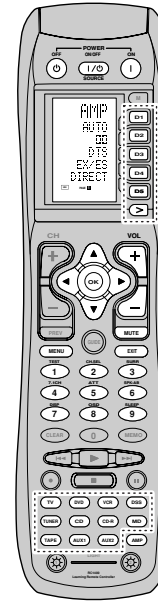
GENERAL INFORMATION OF RC1400 TO SR8400

To control the SR8400 by your RC1400, you have to select the device AMP or TUNER by pressing the function selector button. Please refer below for the details in AMP and TUNER mode.

When you bought this remote control and insert the batteries to the remote control at first, the steps 1 to 3 are skipped. Starts from step 4 to set the time.

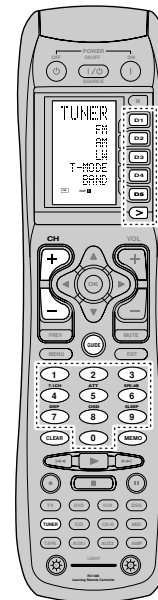
1. Hold down the **M** button for three seconds or more.
The menu is displayed.
2. Press the **>** button once.
This displays second page (SETUP).
3. Press the **D4 (CLOCK)** direct button.
The “:” indicator blinks and the clock indicator displays “0:00”.
4. Press the **1** and **8** numeric button to set the hour indicator.
The hour indicator displays “18”.
The minute indicator blinks “_”.
5. Press the **2** and **0** numeric button to set the minute indicator.
The minute indicator displays “20”.
The hour indicator blinks.
6. Press the **OK** cursor button to start the clock.
The clock starts from 0 second at the time that was set and return to normal (USE) mode.

AMP MODE



SOURCE ON/OFF	Turns the SR8400 on and off
POWER ON	Turns the SR8400 on
POWER OFF	Turns the SR8400 off
D1 - D5 / >(Page)	(Refer to page vi)
VOL +/-	Adjust the over all sound level
MUTE	Decreases the sound temporarily
Cursor	Move the cursor for setting in "On screen display" mode
OK	Enter the "On screen display" Confirms the setting in "On screen display" mode
MENU	Displays the current setting on the monitor
EXIT	Exits from SETUP MENU
TEST (1)	Enter the test tone menu
CH.SEL (2)	Call up SETUP MENU and adjusts speaker levels or 7.1ch input level
SURR (3)	Selects the surround mode
7.1CH (4)	Selects the 7.1CH IN
ATT (5)	Reduces the input level
SPK-AB (6)	Selects the speaker system
DISP (7)	Changes the front display mode
OSD (8)	Selects the "On screen display" on and off
SLEEP (9)	Sets the sleep timer function
Function selector	Selects a particular source component

TUNER MODE



D1 - D5 / >(Page)	(Refer to page vi)
CH +/-	Selects a preset station up and down
GUIDE	Selects the "Frequency direct input"
0-9	Input the numeric
MEMO	Enter the tuner preset memory numbers
CLEAR	Clears the inputting
TUNER	Selects a frequency band

CONNECTIONS

SPEAKER PLACEMENT

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

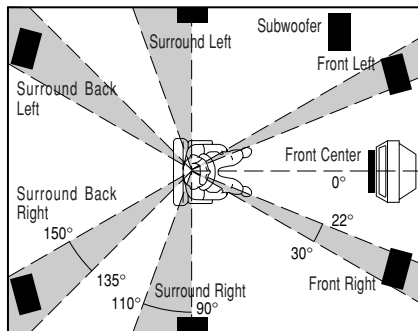
For best results we recommend that all front speakers be of the same type, with identical or similar driver units. This will deliver smooth pans across the front sound stage as the action moves from side to side.

Your center channel speaker is very important as over 80 % of the dialog from a typical motion picture emanates from the center channel.

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

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

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



Front left and right speakers

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

Center speaker

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

Surround left and right speakers

When the SR8400 is used in surround operation, the preferred location for surround speakers is on the side walls of the room, at or slightly behind the listening position.

The center of the speaker should face into the room.

Surround back left and right speakers

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

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

The center of the speaker should face into the room.

Subwoofer

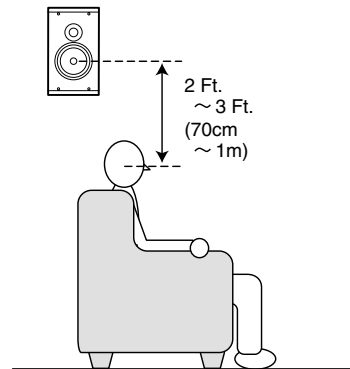
We recommend using a sub-woofer to have maximum bass effect. Sub-woofer bears only low frequency range so you can place it any where in the room.

HEIGHT OF THE SPEAKER UNITS

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

Surround left and right speakers, and surround back speaker

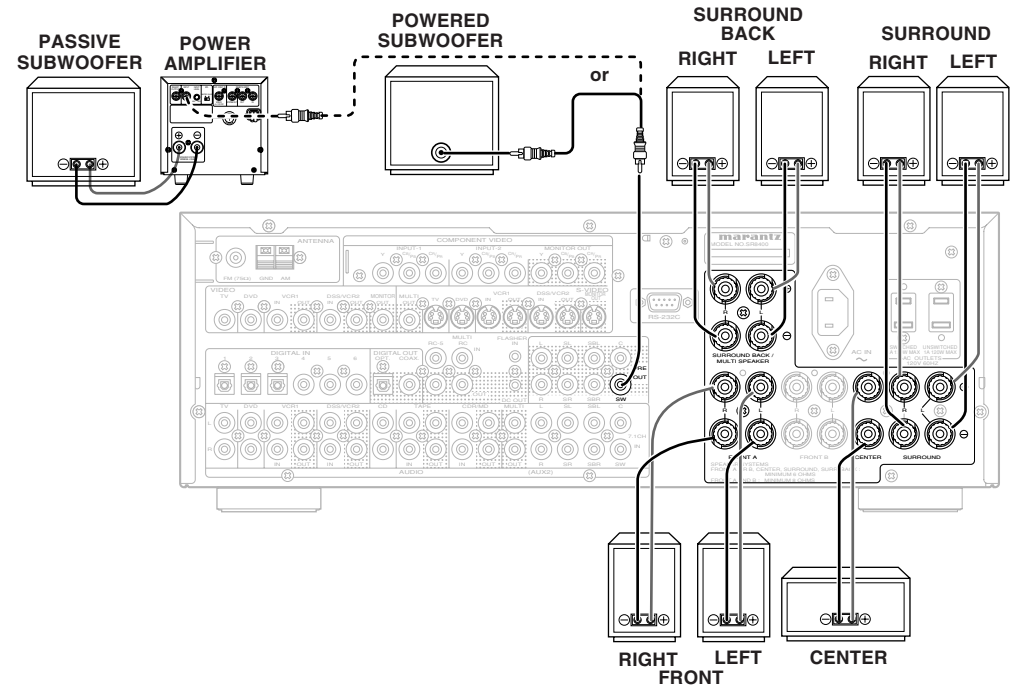
Place the surround left, right and surround back speakers higher than your ears by about 2 Ft. - 3 Ft. (70cm - 1m). Also place the speakers at the same height, as best as possible.



Note;

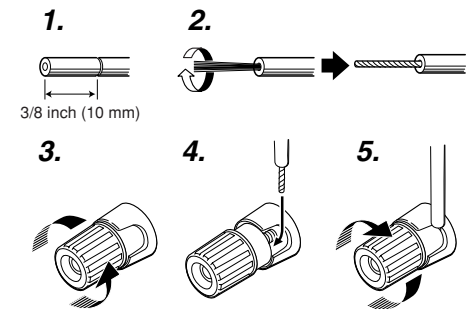
- Use magnetically-shielded speakers for front left, right and the center speakers when the speakers are installed near the TV and the TV is a monitor type.

CONNECTING SPEAKERS



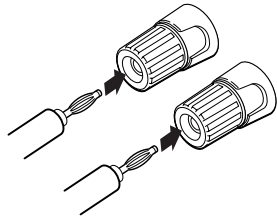
CONNECTING SPEAKER WIRE

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



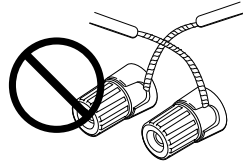
CONNECTING BANANA PLUG

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



Caution:

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



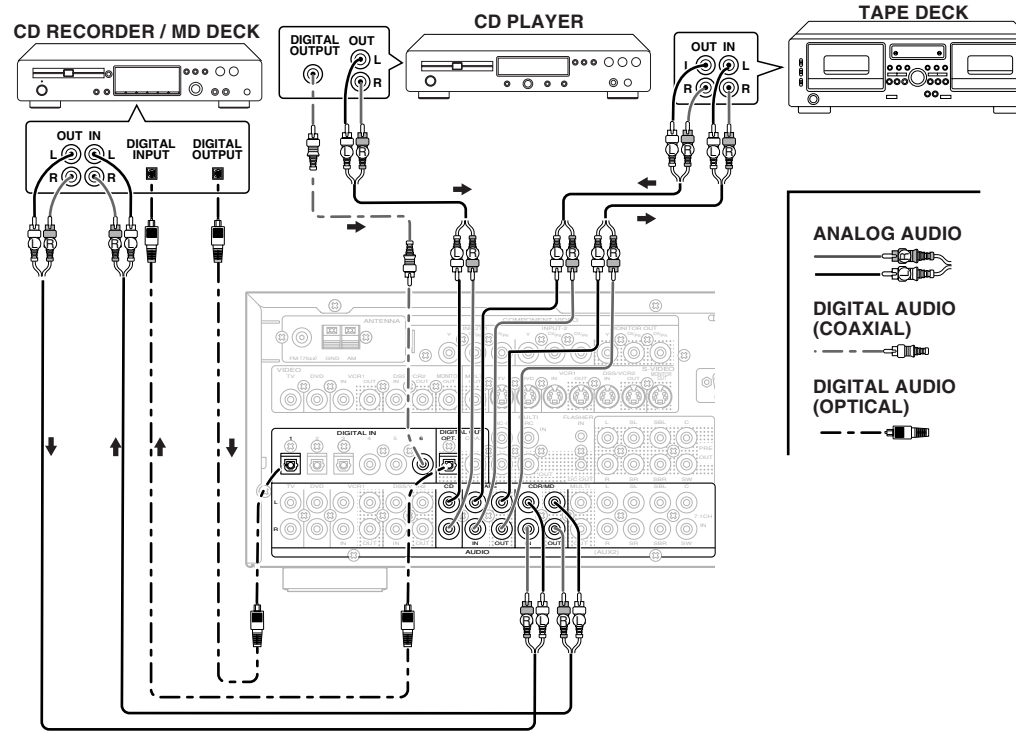
Note:

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

CONNECTING A SUBWOOFER

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

CONNECTING AUDIO COMPONENTS



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

Caution:

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

Notes:

- Insert all plugs and connectors securely. Incomplete connections may make noise.
- Be sure to connect the left and right channels properly. Red connectors are for the R (right) channel, and white connectors are for the L (left) channel.
- Be sure to connect input and output properly.
- Refer to the instructions for each component that is connected to this unit.
- Do not bind audio/video connection cables with power cords and speaker cables this will result in generating a hum or other noise.

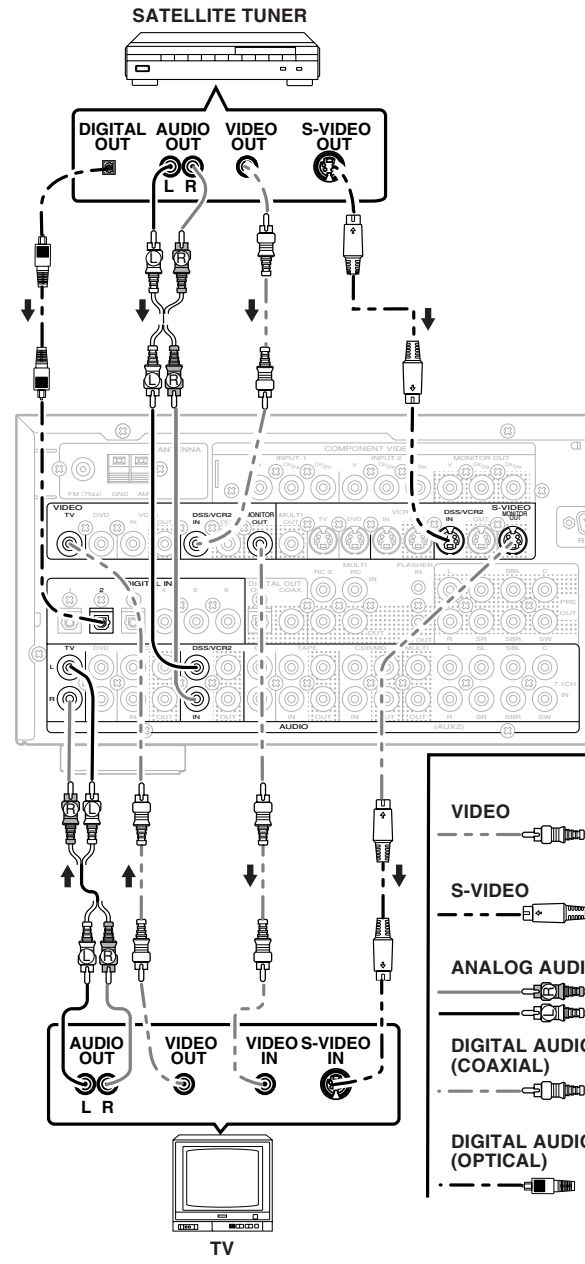
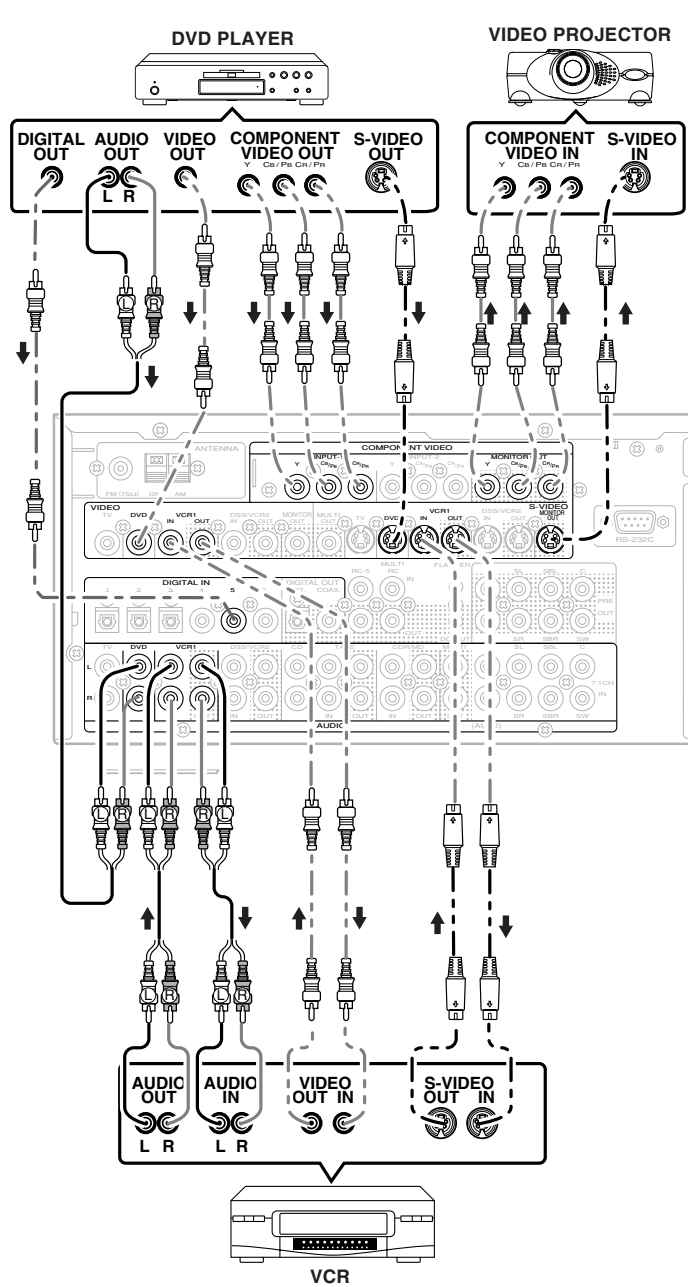
CONNECTING DIGITAL AUDIO COMPONENTS

- There are 6 digital inputs, 3 coaxial jacks and 3 optical jacks, on the rear panel. You can use these jacks to input PCM, Dolby Digital and DTS bitstream signals from a CD, DVD, or other digital source components.
- There is one digital output coaxial jack and one optical output jack on the rear panel. These jacks can be connected to a CD recorder-, or a MD deck inputs, respectively.
- Refer to the instructions for each component. To setup the digital audio format of DVD player, or other digital source's connected to digital input jacks.
- Use fiber optical cables (optical) for DIG-1,2,3 input jacks. Use 75 ohms coaxial cables (for digital audio or video) for DIG-4, 5, 6 input jacks.
- You can designate the input for each digital input/output jacks according to your component. See page 18.

Notes:

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

CONNECTING VIDEO COMPONENTS



VIDEO, S-VIDEO, COMPONENT JACKS

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

VIDEO jack

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

S-VIDEO jack

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

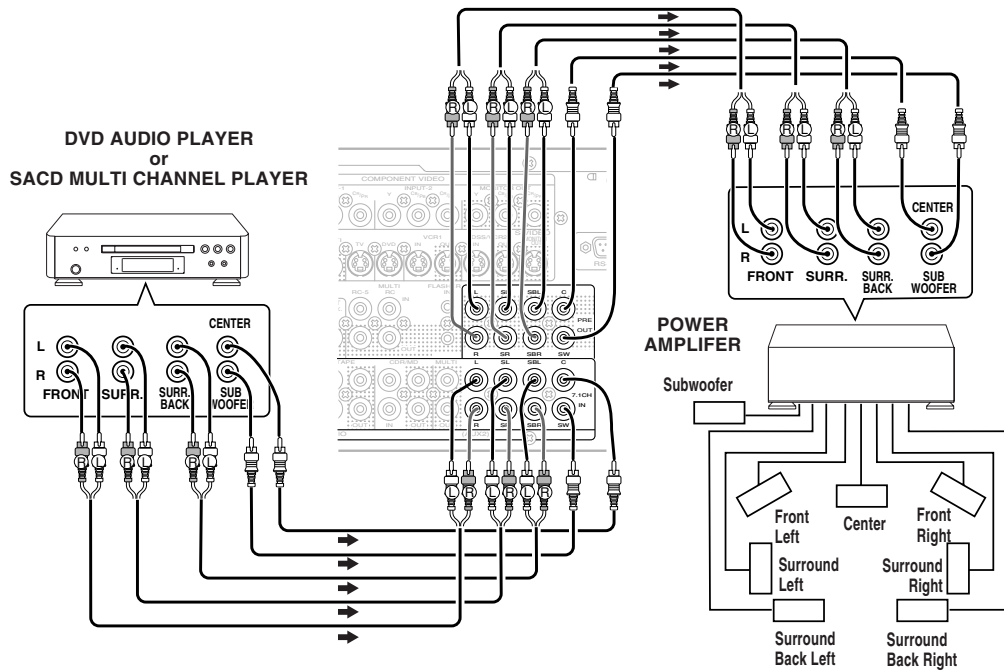
Component jack

Make component video connections to a TV or monitor with component inputs to produce higher quality video images. Use a component video cable or 3 video cords to connect the component video out jacks on the SR8400 to the monitor.

Notes:

- Be sure to connect the left and right audio channels properly. Red connectors are for the R (right) channel, and white connectors are for L (left) channel.
- Be sure to connect the inputs and outputs of the video signals properly.
- If you connect the S-VIDEO or component signal to the S-VIDEO or component jack on this unit, it is not necessary to connect the conventional video signal to the VIDEO (composite) jack. If you use both video inputs, this unit gives priority to the S-VIDEO signal.
- Each type of video jack works independently. Signals input to the VIDEO (composite) and S-VIDEO jacks or component are output to the corresponding VIDEO (composite) and S-VIDEO or component jacks, respectively.
- This unit has the "TV-AUTO ON/OFF" function to turn the TV ON or OFF automatically, by sensing the incoming video signal from the VIDEO jacks.
- You may need to setup the digital audio output format of your DVD player, or other digital source components. Refer to the instructions of the each component connected to the digital input jacks.
- There is no Dolby Digital RF input jack. Please use an external RF demodulator with a Dolby Digital decoder to connect a video disc player which has a Dolby Digital RF output jack to the digital input jack on this unit.

ADVANCED CONNECTING



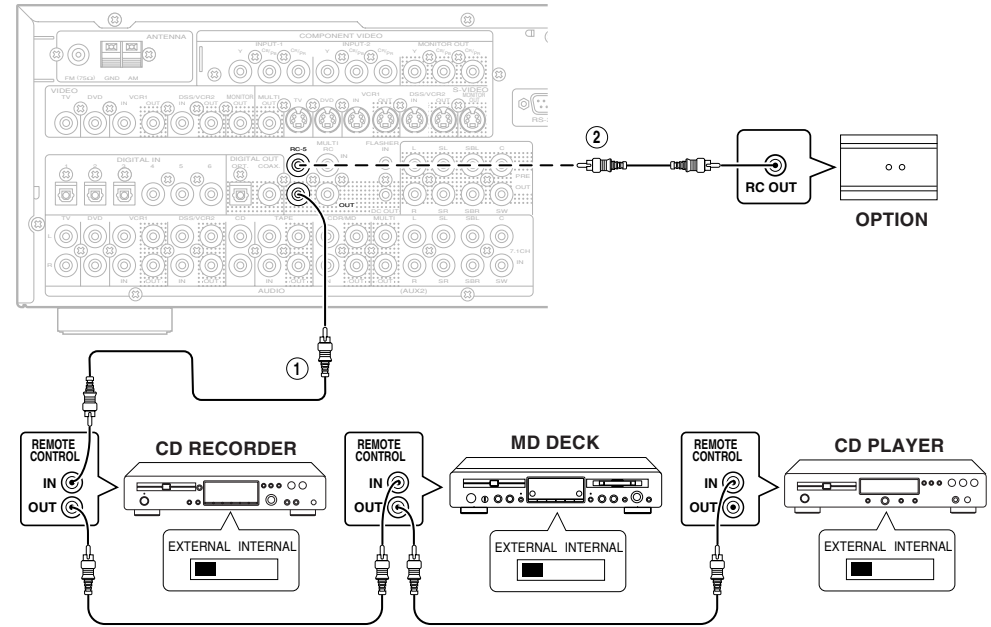
CONNECTING MULTI CHANNEL AUDIO SOURCE

The 7.1CH INPUT jacks are for multichannel audio source such as a SACD multichannel player, DVD audio player or external decoder. If you use these jacks, switch on the 7.1CH INPUT and set the 7.1CH INPUT level by using the SETUP MAIN MENU. See page 21.

CONNECTING AN EXTERNAL POWER AMPLIFIER

The PREOUT jacks are for connecting external power amplifiers. Be sure to connect each speaker to the corresponding external power amplifier.

CONNECTING THE REMOTE CONTROL JACKS



① You can control other Marantz products through this unit with the remote control by connecting the REMOTE CONTROL terminals on each unit. The signal transmitted from the remote control is received by the remote sensor on this unit. Then the signal is sent to the connected device through this terminal. Therefore you need to aim the remote signal only to the unit. Also, if a Marantz power amplifier (some models excluded) is connected to one of these terminals, the power amplifier's, power switch is synchronized with this unit's power switch.

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

② Whenever external infrared sensors or similar devices are connected to RC-5 IN of the SR8400, be sure to always disable operation of the infrared sensor on the main unit by using the following procedure.

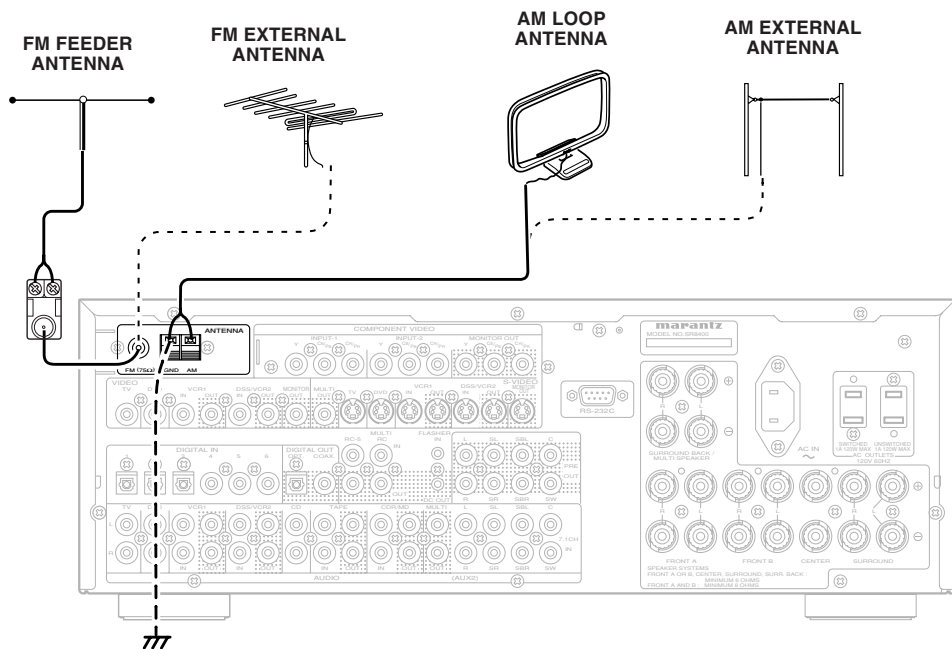
1. Hold down the **SELECT** button and **TV** button on the front panel at the same time for five seconds.
2. The setting "IR=ENABLE" is shown on the FL DISPLAY.
3. Press the **SELECT** button to change this to "IR=DISABLE".
4. Press the **ENTER** button. Once this setting is made, the infrared sensor on the main unit is disabled.

Note:

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

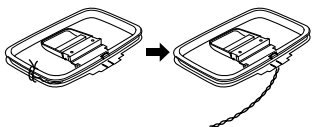
5. To restore the original setting, perform steps 1 to 4 to set to "IR=ENABLE".

CONNECTING THE ANTENNA TERMINALS

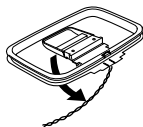


ASSEMBLING THE AM LOOP ANTENNA

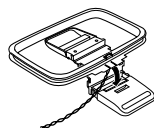
1. Release the vinyl tie and take out the connection line.



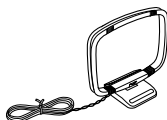
2. Bend the base part in the reverse direction.



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

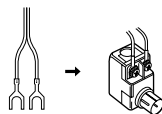


4. Place the antenna on stable surface.



CONNECTING THE ANTENNA WIRE TO THE ANTENNA CONVERTER

Loosen the screws and fix the terminals of wire. Then tighten the screws with a screwdriver.



CONNECTING THE SUPPLIED ANTENNAS

Connecting the supplied FM feeder antenna

The supplied FM feeder antenna is for indoor use only.

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

Connecting the supplied AM loop antenna

The supplied AM loop antenna is for indoor use only.

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

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

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

CONNECTING AN FM OUTDOOR ANTENNA

Notes:

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

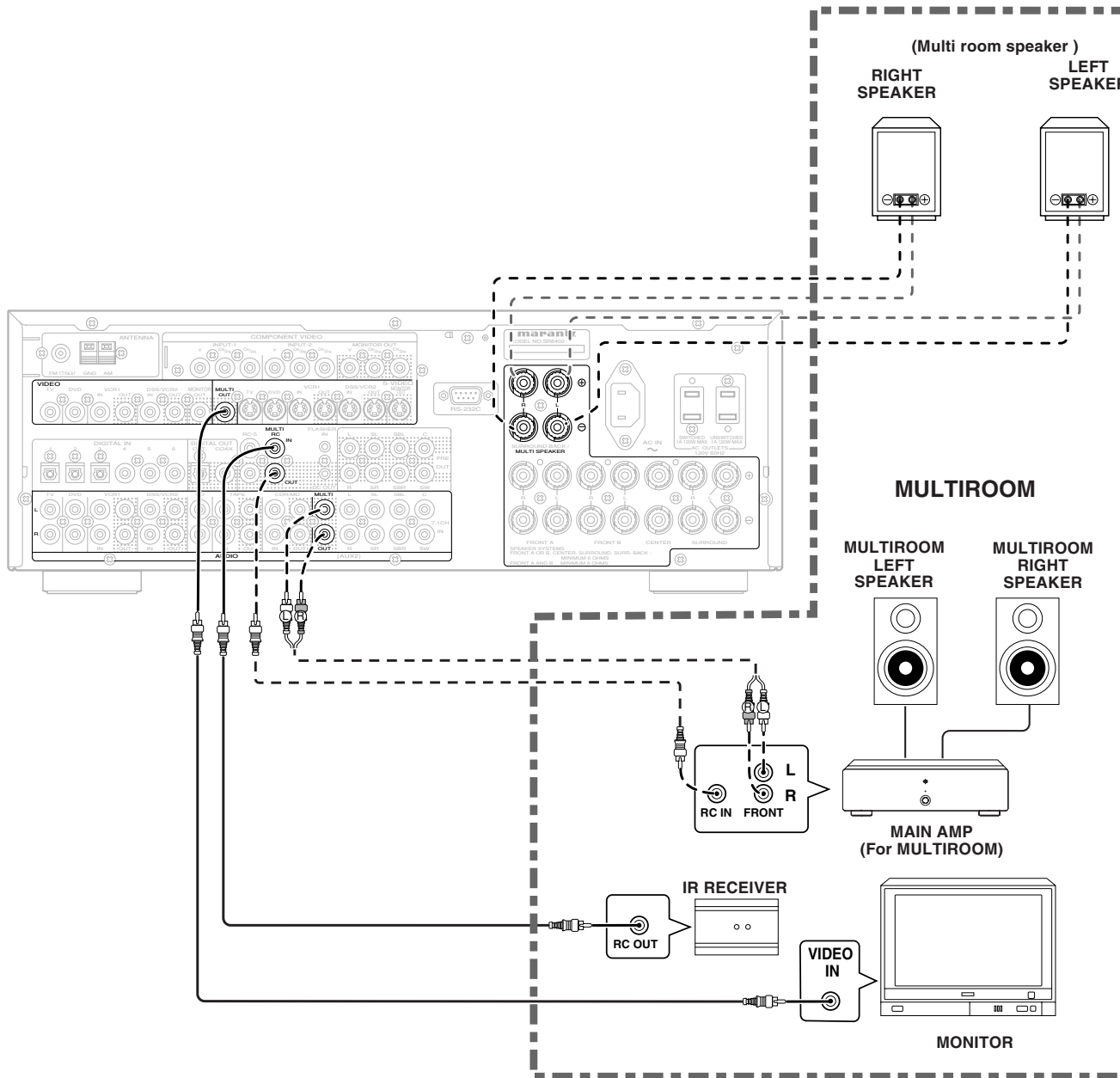
CONNECTING AN AM OUTDOOR ANTENNA

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

Notes:

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

CONNECTING FOR THE MULTI ROOM



Note:

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

SETUP

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

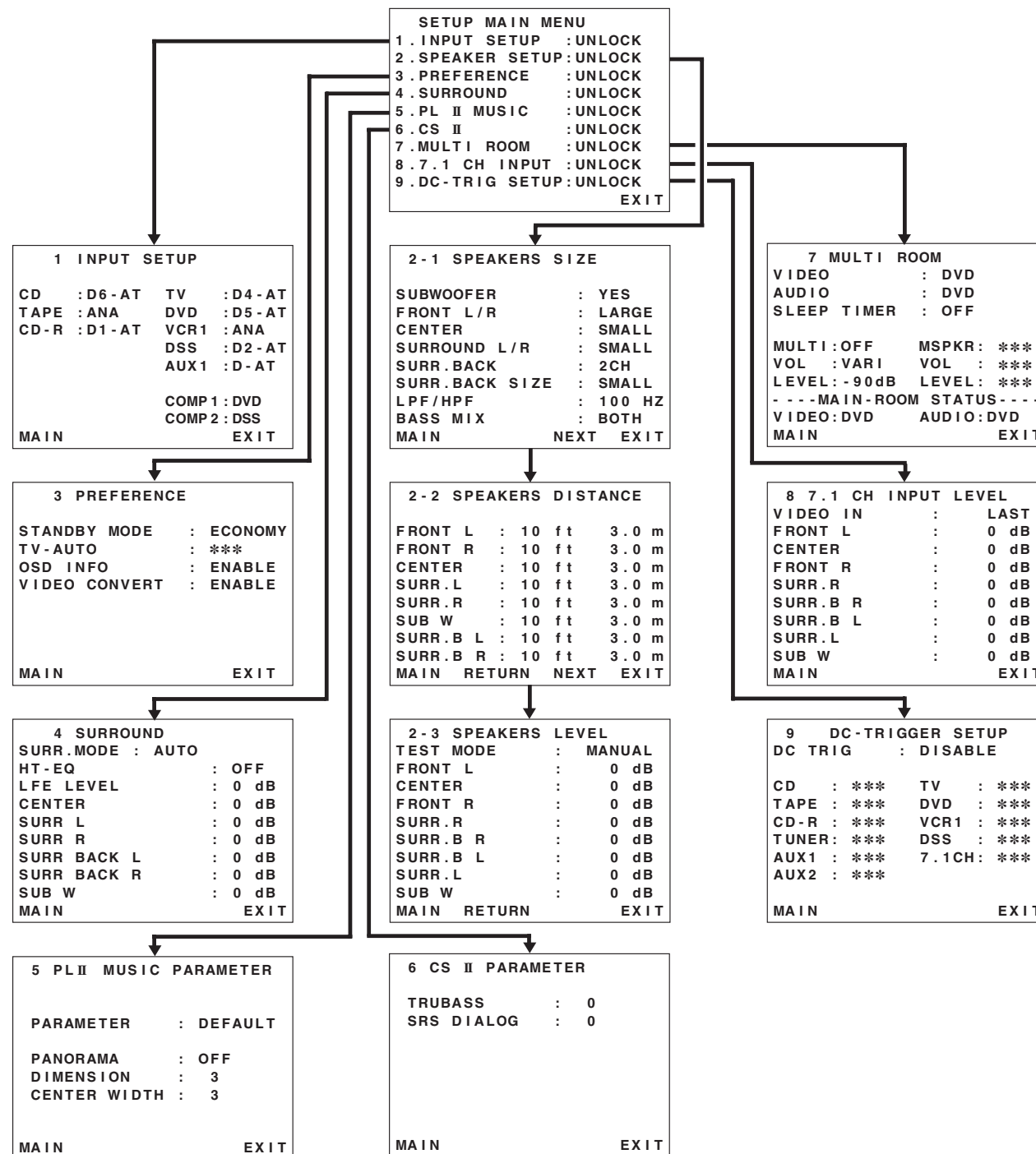
ON SCREEN DISPLAY MENU SYSTEM

The SR8400 incorporates an on-screen menu system, which makes various operations possible by using the cursor (▲, ▼, ◀, ▶) and **OK** buttons on the remote control or **MULTI FUNCTION** dial, **TUNING** ◀ / ▶ button and **ENTER** button on the front panel. Use the **MULTI FUNCTION** dial the same as the ▲▼ button on the remote, **TUNING** ◀ / ▶ button the same as the ◀ / ▶ button on the remote, the **ENTER** button the same as the **OK** button on the remote.

Notes:

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

- Select the **AMP** mode on the remote control.
- Press the **MENU** button on the remote control to display the "SETUP MAIN MENU" of the OSD menu system. There are 9 items in the SETUP MAIN MENU.
If you enter this menu from the MULTI dial on the front panel.
Press **SELECT** to show the "SETUP MENU" in the FL display and press the **ENTER** button.
- Select a desired sub-menu with the ▲ or ▼ cursor buttons, and press the **OK** button to enter.
The display will change to the selected sub-menu. You can lock the condition of setup to each sub-menu with the ◀ or ▶ cursor buttons.
Notes: If you desire to adjust any sub-menu, you need to set it to UNLOCKED.
- If you desire to exit from this menu system, press the **EXIT** button (or **SELECT** button on the front panel), or move the cursor to **EXIT** and press the **OK** button.



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

Six digital inputs can be assigned to a desired source.

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

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

1 INPUT SETUP			
CD	: D6 - AT	TV	: D4 - AT
TAPE	: ANA	DVD	: D5 - AT
CD - R	: D1 - AT	VCR1	: ANA
		DSS	: D2 - AT
		AUX1	: D - AT
		COMP 1	: DVD
		COMP 2	: DSS
MAIN		EXIT	

2. To select the input source, press the ▲ or ▼ cursor buttons.
3. To select the digital input jack, press the ◀ or ▶ cursor buttons.
Select "Dx-AT" for input sources, for automatic detection of the digital input signal condition. If there is not a digital signal present, but there is an analog signal present, the analog signal will be played.
Select "Dig x", when only a digital signal will be used. Select "ANA" for input sources for which no digital input jacks are used.
4. To select the video source, select "COMP1" or "COMP2" by pressing the ▲ or ▼ cursor buttons, and press the ◀ or ▶ cursor buttons to select the video source to be assigned.
5. After you complete this portion of the set up, move the cursor to MAIN with the ▲ or ▼ cursor buttons and press the OK button.

Notes:

- The TUNER and AUX2 are fixed to the analog input, and cannot be selected for any digital input.
- When a DTS-LD or DTS-CD is playing, this setup is not available. This is to avoid noise being generated from the analog input.
- If "Dx-AT" is selected and a DVD, compact disc or LD is fast-forwarded during playback, decoded signals may produce a skipping sound. In such cases, change the setting to DIGITAL.

2 SPEAKER SETUP

After you have installed the SR8400, connected all the components, and determined the speaker layout, it is now time to perform the settings in the Speaker Setup menu for the optimum sound acoustics for your environment and speaker layout. Before you perform the following settings, it is important that you first determine the following characteristics:

2-1 SPEAKERS SIZE

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

LARGE:

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

SMALL:

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

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

2 - 1 SPEAKERS SIZE	
SUBWOOFER	: YES
FRONT L / R	: LARGE
CENTER	: SMALL
SURROUND L / R	: SMALL
SURR . BACK	: 2CH
SURR . BACK SIZE	: SMALL
LPF / HPF	: 100 HZ
BASS MIX	: BOTH
MAIN	NEXT EXIT

1. Select "SPEAKER SETUP" in SETUP MAIN MENU with ▲ or ▼ cursor button, and press the OK button.
2. To select the each speaker, press the ▲ or ▼ cursor buttons.
3. To select the setting of each speaker size, press the ◀ or ▶ cursor buttons.
4. After you complete this portion of the set up, move the cursor to "NEXT" with the ▲ or ▼ cursor buttons and then press the OK button to go to the next page.

SUBWOOFER:

YES:

Select when a subwoofer is connected.

NONE:

Select when a subwoofer is not connected.

FRONT L/R

LARGE:

Select if the front speakers are large.

SMALL:

Select if the front speakers are small.

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

CENTER

NONE:

Select if no center speaker is connected.

LARGE:

Select if the center speaker is large.

SMALL:

Select if the center speaker is small.

SURROUND L/R

NONE:

Select if no surround left and right speakers are connected.

LARGE:

Select if the surround left and right speakers are large.

SMALL:

Select if the surround left and right speakers are small.

SURR. BACK

NONE: Select if no surround back left and right speakers are connected.

2CH: Select if the surround back left and right speakers are connected.

1CH: Select if the one surround back speaker is connected.

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

Notes:

- If "None" is selected for the Surround L/R setting, then this setting is fixed to "None."
- You can use surround back speaker terminals as multi room speaker terminals when you use no surround back speaker. (See page 16)

SURR. BACK SIZE

LARGE:

Select if the surround back speaker is large.

SMALL:

Select if the surround back speaker is small.

Note:

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

LPF/HPF

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

80Hz :

Select this when the bass speaker is about 12 cm (4 3/4 inches).

100Hz :

Select this when the bass speaker is about 10 cm (3 15/16 inches).

120Hz :

Select this when the bass speaker is about 8 cm (3 3/16 inches).

Notes:

- Use the above comments as reference when adjusting.
- If S- Direct mode, 7.1CH Input is in use, this function does not take effect.

BASS MIX

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

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

In this playback mode, the low frequency range expand more uniformly through the room, but depending on the size and shape of the room, interference may result in a decrease of the actual volume of the low frequency range.

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

Note:

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

2-2 SPEAKERS DISTANCE

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

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

This is important for the timing of the acoustics to create the proper sound space that the SR8400 and today's sound systems are able to produce.

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

2 - 2 SPEAKERS DISTANCE			
FRONT L	:	10 ft	3.0 m
FRONT R	:	10 ft	3.0 m
CENTER	:	10 ft	3.0 m
SURR. L	:	10 ft	3.0 m
SURR. R	:	10 ft	3.0 m
SUB W	:	10 ft	3.0 m
SURR. B L	:	10 ft	3.0 m
SURR. B R	:	10 ft	3.0 m
MAIN	RETURN	NEXT	EXIT

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

FRONT L :

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

FRONT R :

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

CENTER :

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

SURR. L :

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

SURR. R :

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

SUB W :

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

SURR. B L :

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

SURR. B R :

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

Notes

- For the speakers that you have selected "None" the Speaker Size menu will not appear.
- The setting for Surr.Back L and Surr.Back R appears if you set for it to, two surround back speakers in the Speaker Size menu.
- The setting of Surr.Back appears if it is set for one surround back speaker in the Speaker Size menu.

2-3 SPEAKERS LEVEL

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

Note:

- The speaker level settings are not available in 7.1 channel input mode and S-Direct mode.

2 - 3 SPEAKERS LEVEL			
TEST MODE	:	MANUAL	
FRONT L	:	0 dB	
CENTER	:	0 dB	
FRONT R	:	0 dB	
SURR. R	:	0 dB	
SURR. B R	:	0 dB	
SURR. B L	:	0 dB	
SURR. L	:	0 dB	
SUB W	:	0 dB	
MAIN	RETURN		EXIT

TEST MODE :

Selects "MANUAL" or "AUTO" for generating the mode of the test tone with the ◀ or ▶ cursor buttons.

If you select "AUTO", the test tone will be cycled through in a circular pattern which is Left → Center → Right → Surround Right → Surround Back Right → Surround Back Left → Surround Left → Subwoofer → Left →.. increments of 3 seconds for each channel.

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

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

- When you move the cursor to FRONT L by pressing the ▼ cursor button, the SR8400 will emit a pink noise from the front left speaker. Remember the level of this noise and then press the ▼ cursor button. (Note that this can be adjusted to any level between -10 and +10 dB in 1 dB intervals except the subwoofer setting. The subwoofer can be adjusted to any level between -15 and +10 dB in 1 dB intervals.) The SR8400 will now emit the pink noise from the center speaker.
- Using the ◀ and ▶ cursor buttons, adjust the volume level of the noise from the center speaker so that it is the same level as the front left speaker.
- Press the ▼ cursor button again. The SR8400 will now emit the pink noise from the front right speaker.
- Repeat steps 2 and 3 above for the front right and other speakers until all speakers are adjusted to the same volume level.

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

Notes:

- Speakers that you selected "None" for in the Speaker Size menu will not appear.
- The setting of Surr.Back L and Surr.Back R appears if you have set it for two surround back speakers in the Speaker Size menu.
- The setting of Surr.Back appears if you have set it for one surround back speaker in the Speaker Size menu.
- To adjust the speaker levels for 7.1-channel input sources, you will need to use the 7.1CH-INPUT sub menu. (See page 21).

3 PREFERENCE

3 PREFERENCE	
STANDBY MODE	: ECONOMY
TV - AUTO	: ***
OSD INFO	: ENABLE
VIDEO CONVERT	: ENABLE
MAIN	EXIT

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

STANDBY MODE:

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

Note:

- TV-AUTO and RS-232C are disabled in the "ECONOMY" setting.

TV AUTO:

Select the TV AUTO ON/OFF function to enable or disable with the ◀ or ▶ cursor buttons. (refer to page 26)

OSD Info:

Select the OSD information function to enable or disable with the ◀ or ▶ cursor buttons. If you select "ENABLE", the SR8400 will display the status of the feature (Volume up/down, input select, etc.) on the TV monitor. But if you do not desire this information, select "DISABLE".

VIDEO CONVERT:

Select the VIDEO CONVERT function to enable or disable with the ◀ or ▶ cursor buttons. (refer to page 22)

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

4 SURROUND

4 SURROUND	
SURR.MODE : AUTO	
HT-EQ : OFF	
LFE LEVEL : 0 dB	
CENTER : 0 dB	
SURR L : 0 dB	
SURR R : 0 dB	
SURR BACK L : 0 dB	
SURR BACK R : 0 dB	
SUB W : 0 dB	
MAIN	EXIT

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

SURR.MODE :

Select the desired surround mode with the ◀ or ▶ cursor buttons.

HT-EQ :

Select to activate the HT-EQ with the ◀ or ▶ cursor buttons.

The tonal balance of a film soundtrack will be excessively bright and harsh when played back over audio equipment in the home. This is because film soundtracks were designed to be played back in large movie theater environments. Activating the HT-EQ feature when watching a film made for movie theaters corrects this and restores the correct tonal balance.

The HT-EQ feature can be activated only while in Dolby Pro Logic Mode, or while decoding Dolby Digital or DTS encoded material.

LFE LEVEL :

Select the output level of the LFE signal included in the Dolby Digital signal or the DTS signal.

Select 0 dB, -10 dB or OFF with the ◀ or ▶ cursor buttons.

CHANNEL LEVEL**CENTER LEVEL:**

Set the effect level of the center speaker between -10 and +10 dB level in 1 dB level intervals.

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

SURR L LEVEL:

Set the level of the Surround left speaker between -10 and +10 dB level in 1 dB level intervals.

- If "None" was selected for the Surround left speaker setting, in the Speaker size set up menu, then this setting will not appear.

SURR R LEVEL:

Set the level of the Surround right speaker between -10 and +10 dB level in 1dB level intervals.

- If "None" was selected for the Surround right speaker setting, in the Speaker size set up menu, then this setting will not appear.

SURR BACK L LEVEL:

Set the effect level of the Surround Back L (left) speaker between -10 and +10 dB level in 1 dB level intervals.

- If "None" was selected for the Surround back left speaker setting, in the Speaker size set up menu, then this setting will not appear.

SURR BACK R LEVEL:

Set the effect level of the Surround Back R (Right) speaker between -10 and +10 dB level in 1 dB level intervals.

- If "None" was selected for the Surround back right speaker setting, in the Speaker size set up menu, then this setting will not appear.

SUB W LEVEL:

Set the effect level of the subwoofer speaker between -15 and +10 dB level in 1 dB level intervals.

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

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

5 PL II (PRO LOGIC II) MUSIC PARAMETER

Pro Logic II-Music mode creates a rich and enveloping surround ambience from stereo sources such as CDs. In this mode, SR8400 includes three controls to fine-tune the soundfield as follows.

5 PLII MUSIC PARAMETER	
PARAMETER : DEFAULT	
PANORAMA : OFF	
DIMENSION : 3	
CENTER WIDTH : 3	
MAIN	EXIT

Select "PLII MUSIC" in the SETUP MAIN MENU with the ▲ or ▼ cursor buttons, and press the OK button.

PARAMETER:

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

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

PANORAMA:

Select the Panorama mode On or Off with the ◀ or ▶ cursor buttons.

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

DIMENSION:

Set the Dimension level between 0 and 6 level in 1 level intervals with the ◀ or ▶ cursor buttons.

Adjust the soundfield either towards the front or towards the rear.

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

CENTER WIDTH:

Set the Center width level between 0 and 7 in 1 level intervals with the ◀ or ▶ cursor buttons.

Center Width allows you to gradually spread the center channel sound into the front left and right speakers.

At its widest setting, all the sound from the center is mixed into the left and right.

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

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

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

6 CS II (CIRCLE SURROUND II) PARAMETER

6 CS II PARAMETER	
TRUBASS : 0	
SRS DIALOG : 0	
MAIN	EXIT

1. Select "CS II" in the SETUP MAIN MENU with the ▲ or ▼ cursor buttons, and press the OK button.
2. To Select desired contents as below, press the ▲ or ▼ cursor buttons.

TRUBASS:

Set the TRUBASS level between 0 and 6 level in 1 level interval with the ◀ or ▶ cursor buttons.

TRUBASS produced by the speakers are an octave below the actual physical capabilities of the speakers adding exciting, deeper bass effects.

SRS DIALOG:

Set the SRS DIALOG level between 0 and 6 in 1 level intervals with the ◀ or ▶ cursor buttons.

This can be popped out of the surround audio effects, allowing the listener to easily discern what the actors say.

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

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

7 MULTI ROOM

SR8400 has features in MULTI ROOM SYSTEM such as source selector, OSD information, sleep timer, Multi Room Speaker output and remote control.

You can set these feature in this sub-menu.

7 MULTI ROOM			
VIDEO : DVD			
AUDIO : DVD			
SLEEP TIMER : OFF			
MULTI : OFF	MSPKR : ***		
VOL : VARI	VOL : ***		
LEVEL : -90dB	LEVEL : ***		
- - - MAIN-ROOM STATUS - - -			
VIDEO : DVD	AUDIO : DVD		
MAIN			EXIT

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

VIDEO:

Select the video source of the Multi-room output with ◀ or ▶ cursor buttons.

AUDIO:

Select the audio source of the Multi-room output with ◀ or ▶ cursor buttons.

SLEEP TIMER:

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

MULTI (MULTI ROOM):

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

VOL (VOLUME SETUP):

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

LEVEL (VOLUME LEVEL):

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

MSPKR (MULTI SPEAKER):

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

Note:

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

VOL (VOLUME SETUP):

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

Note:

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

LEVEL (VOLUME LEVEL):

Adjust the Multi-speaker output level with ◀ or ▶ cursor button.

Note:

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

MAIN ROOM STATUS:

Selected input source in the main room will be displayed.

Note:

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

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

8 7.1 CH INPUT LEVEL

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

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

8 7.1 CH INPUT LEVEL		
VIDEO IN	:	LAST
FRONT L	:	0 dB
CENTER	:	0 dB
FRONT R	:	0 dB
SURR.R	:	0 dB
SURR.B R	:	0 dB
SURR.B L	:	0 dB
SURR.L	:	0 dB
SUB W	:	0 dB
MAIN	:	EXIT

1. Select "7.1CH INPUT" in the SETUP MAIN MENU with the ▲ or ▼ cursor buttons, and press the OK button.
 2. To select "VIDEO IN", press ▲ or ▼ cursor button.
 3. Using the ◀ or ▶ cursor buttons, select the video input source which is emitted from Monitor out in the 7.1 CH INPUT function. The input source is switched by pressing the ◀ or ▶ cursor buttons as follows; LAST ↔ TV ↔ DVD ↔ VCR1 ↔ DSS ↔ AUX1 ↔ V-OFF ↔ LAST ↔
- Notes:**
- When select LAST, the source is set previous source before 7.1 CH INPUT function is activated.
 - When select V-OFF, no signal is emitted from monitor out terminal.
4. To Select desired channel , press the ▲ or ▼ cursor buttons.
 5. Using the ◀ or ▶ cursor buttons, adjust the volume level of each channel.
 6. After you complete this portion of the set up, move the cursor to "MAIN" with the ▲ or ▼ cursor buttons and press the OK button.

Note:

- These settings will be memorized to 7.1CH INPUT source.

9 DC TRIGGER SETUP

SR8400 has a DC trigger control jack, this is selectable to link with input functions for the main room or multi room.

1. Select "DC-TRIG SETUP" in the SETUP MAIN MENU with ▲ or ▼ cursor button, and press the OK button.

9 DC-TRIGGER SETUP			
DC TRIG	:	DISABLE	
CD	:	***	TV : ***
TAPE	:	***	DVD : ***
CD-R	:	***	VCR1 : ***
TUNER	:	***	DSS : ***
AUX1	:	***	7.1CH : ***
AUX2	:	***	
MAIN	:	EXIT	

2. You can select MAIN ROOM, MULTI ROOM, REMOTE or DISABLE by pressing ◀ or ▶ cursor buttons.

Note:

- REMOTE is available for the external control. The RC1400 cannot operate this function
3. To select desired input source , press ▲ or ▼ cursor button.
 4. To set ON or OFF, press ◀ or ▶ cursor button.
 5. After you complete this portion of the set up, move the cursor to "MAIN" with the ▲ or ▼ cursor buttons and press the OK button.

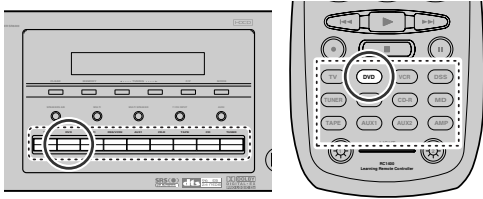
BASIC OPERATION

(PLAY BACK)

SELECTING AN INPUT SOURCE

Before you can listen to any input media, you must first select the input source on the SR8400.

Example : DVD



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

- As the input source is changed, the new input name will appear momentarily on the video display. The input name will also appear in the display, on the front-panel.
- As the input is changed, the SR8400 will automatically switch to the digital input, surround mode, attenuation, and night mode status which were entered during the configuration process for that source.
- When an audio source is selected, the last video input used remains routed to the **VCR1 & DSS/VCR2** Outputs and **Monitor** Output. This permits simultaneous viewing and listening to different sources.
- When a Video source is selected, the video signal for that input will be routed to the **Monitor Output** jacks and will be viewable on a TV monitor connected to the SR8400.
- If a component video input is connected to the **DVD** or **DSS** component inputs, it will be routed to the **Component Video Output**. Make certain that your TV is set to the proper input to view the signal.

VIDEO CONVERT

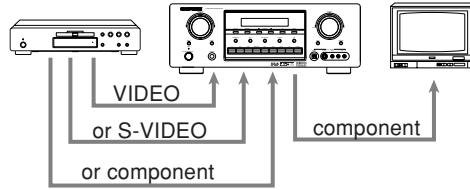
When this function is activated, the video or S-video signal can be emitted from the video, S-video or component video output terminal. To activate this function, select VIDEO CONVERT in PREFERENCE menu and set ENABLE.

Notes :

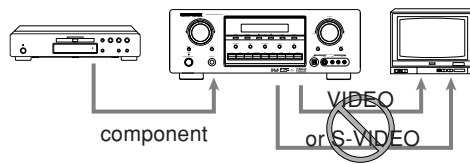
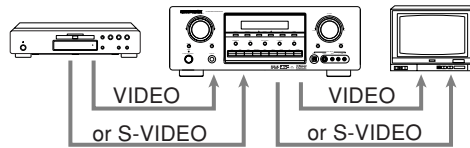
- The component video signal is emitted only from component video output terminal. When the video equipment is connected by component terminal, connect the monitor and SR8400 by the component terminal.
- This function is unavailable for the REC out terminal.
- This function is unavailable for the still picture, fast forward and reverse playing of the video component.
- If the picture has a noise with this function, the combination of the monitor, SR8400 and the video component may be not compatible. In this case, VIDEO CONVERT function must be set DISABLE.

Example :

Monitor is connected with the component.



Monitor is connected with the video or S-video.



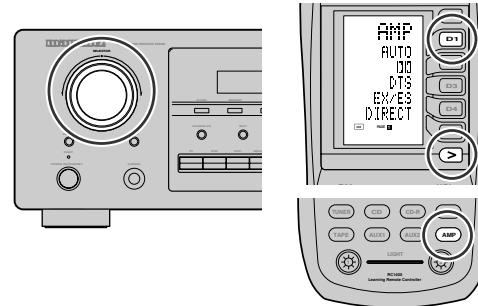
The signal cannot be converted from the component to the video or S-video.

Notes of OSD menu:

- The setup menu can be displayed through all video out (COMPONENT, S-VIDEO, VIDEO).
 - The setting informations (e.g. volume setting) are displayed through all video out when the VIDEO CONVERT function are set ENABLE.
- Note: no setting information is displayed when the signal is emitted from the COMPONENT IN to COMPONENT OUT.
- The setting informations (e.g. volume setting) are displayed through the S-VIDEO or VIDEO out when the VIDEO CONVERT function are set DISABLE. When the S-VIDEO and VIDEO outputs are used simultaneously, the setting informations are displayed through the S-VIDEO out only.

SELECTING THE SURROUND MODE

Example : AUTO SURROUND



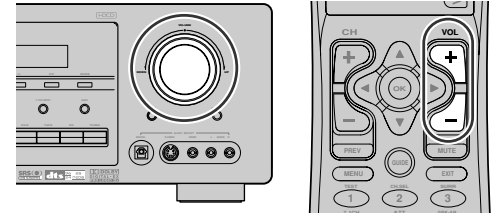
(Using the SR8400)

To select the surround mode during playback, turn the **SELECT** knob on the front panel.

(Using the remote control unit)

To select the surround mode, press the **AMP** button and press the > button until PAGE1 is displayed. Press the **AUTO (D1)** button.

ADJUSTING THE MAIN VOLUME



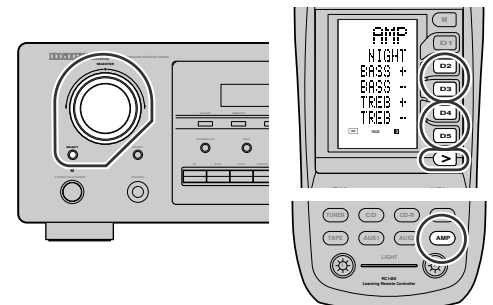
Adjust the volume to a comfortable level using the **VOLUME** control knob on the front panel or **VOL + / -** buttons on the remote.

To increase the volume, turn the **VOLUME** knob clockwise or press **VOL +** button on the remote, to decrease the volume, turn counterclockwise or press **VOL -** button on the remote.

Notes:

- The volume can be adjusted within the range of $-\infty$ to 18 dB, in steps of 1 dB.
 - However, when the channel level is set as described on page 19, if the volume for any channel is set at +1 dB or greater, the volume cannot be adjusted up to 18 dB.
- (In this case the maximum volume adjustment range is "18 dB - Maximum value of channel level")

ADJUSTING THE TONE (BASS & TREBLE) CONTROL.



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

(Using the SR8400)

To change the selector mode, press the **SELECT** button, until "BASS" or "TREBLE" is shown on the front display. Turn the **SELECTOR** knob to the desired level of tone control.

(Using the remote control unit)

To adjust the tone, press the **AMP** button and press the > button PAGE3 is displayed.

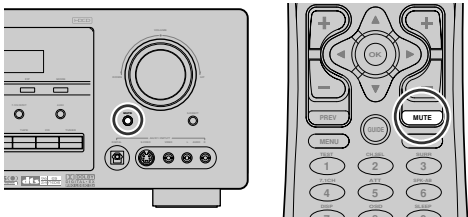
To adjust the bass effect, press **BASS+ (D2)** or **BASS- (D3)**.

To adjust the treble effect, **TREB+ (D4)** or **TREB- (D5)**.

Notes :

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

TEMPORARILY TURNING OFF THE SOUND



To temporarily silence all speaker outputs such as when interrupted by a phone call, press the **MUTE** button on the front panel or **MUTE** button on the remote.

This will interrupt the output to all speakers and the head-phone jack, but it will not affect any recording or dubbing that may be in progress.

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

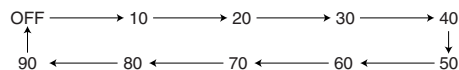
Press the **MUTE** button again to return to normal operation.

USING THE SLEEP TIMER



To program the SR8400 for automatic standby, press the **SLEEP** button on the remote.

Each press of the button will increase the time before shut down in the following sequence.



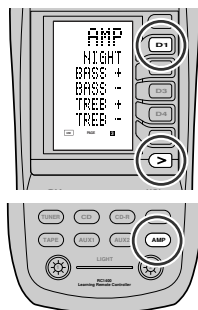
The sleep time will be shown for a few seconds in the display on the front panel, and it will count down until the time has elapsed.

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

Note that the **SLEEP** indicator on the display will illuminate when the Sleep function is programmed.

To cancel the Sleep function, press the **SLEEP** button until the display shows **"SLEEP OFF"** and the SLEEP indicator will disappear.

NIGHT MODE



To select the NIGHT mode, press the **AMP** button and press the > button until PAGE3 is displayed. Press the **NIGHT (D1)** 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.

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

SURROUND MODE

The SR8400 is equipped with many surround modes. These are provided to reproduce a variety of surround sound effects, according to the content of the source to be played.

The available surround modes may be restricted depending on the input signal and speaker setup.

AUTO

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

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

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

Inputting a Dolby Digital two channel signal with Dolby surround status automatically subjects that signal to Pro Logic IIx movie processing before play.

PCM 96 kHz source material can be played in this mode.

HDCD source material can be played in this mode.

Notes:

- When you use this mode with certain DVD and CD players, performing operations such as "Skip" or "Stop" may momentarily interrupt the output.
- When the signal is not decoded, the mode is changed to AUTO mode automatically. Refer to page 22 to confirm the available decoding mode.

DD MODE

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

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

DOLBY DIGITAL

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

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

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

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

Pro Logic IIx MOVIE

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

Pro Logic IIx MUSIC

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

Pro Logic IIx GAME

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

Pro Logic

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

Notes:

- Pro Logic IIx mode will decode as Pro Logic II mode when the SURROUND BACK SPEAKER is set NONE in SPEAKER SETUP menu. (See SPEAKER SETUP, page 18)
- Pro Logic IIx mode is available for a 2ch input signal which is encoded in Dolby Digital or PCM format.
- PCM-audio signals can be subjected to Pro Logic processing when the sampling frequency is 32 kHz, 44.1 kHz or 48 kHz.

EX/ES

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

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

Dolby Digital EX

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

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

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

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

DTS-ES (Discrete 6.1, Matrix 6.1)

DTS-ES adds the surround center channel audio to the DTS 5.1-channel format to improve the acoustic positioning and makes acoustic image movement more natural with the 6.1-channel reproduction.

This receiver incorporates a DTS-ES decoder, which can handle DTS-ES Discrete-encoded and DTS-ES Matrix-encoded program sources from DVD, etc.. DTS-ES Discrete 6.1 features digital discrete recording of all channels including the surround back channel(s) and higher quality of audio reproduction. DTS-ES is not available in the system without a surround back speaker.

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

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

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

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

dts-ES decoding is not available in this mode.

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

Neo:6 Cinema, Neo:6 Music

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

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

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

Note:

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

MULTI.CH.ST

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

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

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

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

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

Note:

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

VIRTUAL

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

STEREO

This mode bypasses all surround processing.

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

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

HDCD source material can be played in this mode.

S (SOURCE) - DIRECT

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

96 kHz PCM source material can be played back in this mode.

HDCD source material can be played in this mode.

Notes:

- Internal speaker size is setup to front L/R = Large, Center = Large, Surround L/R = Large and Subwoofer = Yes automatically. Tone controls and additional processing are also defeated.
- When you use this mode with certain DVD and CD players, performing operations such as "Skip" or "Stop" may momentarily interrupt the output.

CAUTION**NOTE for DTS signal**

* Connected DVD-player, laser-disc player or CD-player needs to support DTS-digital output. You may not be able to play some DTS source signals from certain CD players and LD players even if you connect the player to the SR8400 digitally. This is because the digital signal has been processed (such as the output level, sampling frequency, or frequency response) and the SR8400 cannot recognize the signal as DTS data.

* Depending on the player used, DTS play may produce a short noise. This is not a malfunction.

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

* The outputs for the VCR 1 OUT, DSS/VCR 2 OUT, TAPE OUT, and CD-R OUT output analog audio signals. Do not record from CDs or LDs that support DTS using these outputs. If you do, the DTS-encoded signal will be recorded as noise.

NOTE for Dolby Digital Surround EX signal

* When playing Dolby Digital Surround EX-encoded software in 6.1 channels, it is required to set the EX/ES mode.

* Note that some of Dolby Digital Surround EX-encoded software does not contain the identification signal. In this case, set the EX/ES mode manually.

NOTE for 96kHz PCM audio

* AUTO, Source- DIRECT, and STEREO modes can be used when playing PCM signals with a sampling frequency of 96 kHz (such as from DVD-Video discs that contain 24 bit, 96 kHz audio). If such signals are input during playback in one of the other surround modes, output from SR8400 will be muted.

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

* Some DVD formatted discs feature copy protection. When using such disc, 96 kHz PCM signal is not output from the DVD player. For details, refer to the player's operation manual.

NOTE for HDCD signal

* HDCD is effective only at the time of digital input.

* AUTO, Source- DIRECT, and STEREO modes can be used when playing HDCD signals (such as from CD discs that contain HDCD).

* You may not be able to play some HDCD source signals from certain CD players if you connect the player to the SR8400 digitally.

This is because the digital signal has been processed (such as the output level, sampling frequency, or frequency response) and the SR8400 cannot recognize the signal as HDCD data.

The relation between the selected surround mode and the input signal

The surround mode is selected with the surround mode selector on SR8400 or the remote control unit. However, the sound you hear is subject to the relationship between the selected surround mode and input signal. That relationship is as follows;

Surround Mode	Input Signal	Decoding	Output Channel					Front information display	
			L/R	C	SL SR	SBL SBR	SubW	Signal format indicators	Channel status
AUTO	Dolby Surr. EX	Dolby Digital EX	○	○	○	○	○	DD DIGITAL	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Dolby Digital 5.1	○	○	○	-	○	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	Dolby Digital 2.0	○	-	-	-	-	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Pro Logic IIx movie	○	○	○	○	-	DD DIGITAL , DD SURROUND	L, R, S
	DTS-ES	DTS-ES	○	○	○	○	○	dtS , ES	L, C, R, SL, SR, S, LFE
	DTS 96/24	DTS 96/24	○	○	○	-	○	dtS 96/24	L, C, R, SL, SR, LFE
	DTS (5.1ch)	DTS 5.1	○	○	○	-	○	dtS	L, C, R, SL, SR, LFE
	PCM(Audio)	PCM (Stereo)	○	-	-	-	-	PCM	L, R
	PCM 96kHz	PCM (96kHz Stereo)	○	-	-	-	-	PCM	L, R
	HDCCD	Stereo	○	-	-	-	-	PCM, HDCCD	L, R
	Analog	Stereo	○	-	-	-	-	ANALOG	-
S-DIRECT	Dolby D Surr. EX	Dolby Digital EX	○	○	○	○	○	DD DIGITAL	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Dolby Digital 5.1	○	○	○	-	○	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	Dolby Digital 2.0	○	-	-	-	-	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Pro Logic IIx movie	○	○	○	○	-	DD DIGITAL , DD SURROUND	L, R, S
	DTS-ES	DTS-ES	○	○	○	○	○	dtS , ES	L, C, R, SL, SR, S, LFE
	DTS 96/24	DTS 96/24	○	○	○	-	○	dtS 96/24	L, C, R, SL, SR, LFE
	DTS (5.1ch)	DTS 5.1	○	○	○	-	○	dtS	L, C, R, SL, SR, LFE
	PCM (Audio)	PCM (Stereo)	○	-	-	-	-	PCM	L, R
	PCM 96kHz	PCM (96kHz Stereo)	○	-	-	-	-	PCM	L, R
	HDCCD	Stereo	○	-	-	-	-	PCM, HDCCD	L, R
	Analog	Stereo	○	-	-	-	-	ANALOG	-
EX/ES	Dolby D Surr. EX	Dolby Digital EX	○	○	○	○	○	DD DIGITAL	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Dolby Digital EX	○	○	○	○	○	DD DIGITAL	L, C, R, SL, SR, LFE
	DTS-ES	DTS-ES	○	○	○	○	○	dtS , ES	L, C, R, SL, SR, S, LFE
	DTS(5.1ch)	DTS-ES	○	○	○	○	○	dtS	L, C, R, SL, SR, LFE
DOLBY (PL IIx movie) (PL IIx music) (PL IIx game) (Pro Logic)	Dolby D Surr. EX	Dolby Digital 5.1	○	○	○	○	○	DD DIGITAL	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Dolby Digital 5.1	○	○	○	-	○	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	Pro Logic IIx	○	○	○	-	-	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Pro Logic IIx	○	○	○	○	-	DD DIGITAL , DD SURROUND	L, R, S
	PCM (Audio)	Pro Logic IIx	○	○	○	-	-	PCM	L, R
DTS (Neo:6 Cinema) (Neo:6 Music)	Analog	Pro Logic IIx	○	○	○	-	-	ANALOG	-
	DTS-ES	DTS 5.1	○	○	○	-	○	dtS , ES	L, C, R, SL, SR, S, LFE
	DTS 96/24	DTS 96/24	○	○	○	-	○	dtS 96/24	L, C, R, SL, SR, LFE
	DTS (5.1ch)	DTS 5.1	○	○	○	-	○	dtS	L, C, R, SL, SR, LFE
	PCM (Audio)	Neo:6	○	○	○	-	-	PCM	L, R
	Analog	Neo:6	○	○	○	-	-	ANALOG	-
	Dolby D (2ch)	Neo:6	○	○	○	-	-	DD DIGITAL	L, R
Dolby D (2ch Surr)	Neo:6	○	○	○	○	-	DD DIGITAL , DD SURROUND	L, R, S	
CS II Cinema CS II Music CS II Mono	PCM (Audio)	CS II	○	○	○	○	○	PCM	L, R
	Analog	CS II	○	○	○	○	○	ANALOG	-
	Dolby D (2ch)	CS II	○	○	○	○	○	DD DIGITAL	L, R
	Dolby D (2ch Surr)	CS II	○	○	○	○	○	DD DIGITAL , DD SURROUND	L, R, S
STEREO	Dolby Surr. EX	Stereo	○	-	-	-	-	DD DIGITAL	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Stereo	○	-	-	-	○	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	Stereo	○	-	-	-	-	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Stereo	○	-	-	-	-	DD DIGITAL , DD SURROUND	L, R, S
	DTS-ES	Stereo	○	-	-	-	○	dtS , ES	L, C, R, SL, SR, S, LFE
	DTS 96/24	Stereo	○	-	-	-	○	dtS 96/24	L, C, R, SL, SR, LFE
	DTS (5.1ch)	Stereo	○	-	-	-	○	dtS	L, C, R, SL, SR, LFE
	PCM (Audio)	Stereo	○	-	-	-	-	PCM	L, R
	PCM 96kHz	Stereo	○	-	-	-	-	PCM	L, R
	HDCCD	Stereo	○	-	-	-	-	PCM, HDCCD	L, R
	Analog	Stereo	○	-	-	-	-	ANALOG	-
Virtual	Dolby Surr. EX	Virtual	○	-	-	-	-	DD DIGITAL	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Virtual	○	-	-	-	-	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	Virtual	○	-	-	-	-	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Virtual	○	-	-	-	-	DD DIGITAL , DD SURROUND	L, R, S
	DTS-ES	Virtual	○	-	-	-	-	dtS , ES	L, C, R, SL, SR, S, LFE
	DTS (5.1ch)	Virtual	○	-	-	-	-	dtS	L, C, R, SL, SR, LFE
	PCM (Audio)	Virtual	○	-	-	-	-	PCM	L, R
Analog	Virtual	○	-	-	-	-	ANALOG	-	
Multi Ch. Stereo	Dolby Surr. EX	Dolby Digital EX	○	○	○	○	○	DD DIGITAL	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Dolby Digital 5.1	○	○	○	-	○	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	Multi Channel Stereo	○	○	○	-	-	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Multi Channel Stereo	○	○	○	○	-	DD DIGITAL , DD SURROUND	L, R, S
	DTS-ES	DTS-ES	○	○	○	○	○	dtS , ES	L, C, R, SL, SR, S, LFE
	DTS (5.1ch)	DTS 5.1	○	○	○	-	○	dtS	L, C, R, SL, SR, LFE
	PCM (Audio)	Multi Channel Stereo	○	○	○	-	-	PCM	L, R
	Analog	Multi Channel Stereo	○	○	○	-	-	ANALOG	-

Note:

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

Abbreviations

- L/R : Front speakers
- C : Center speaker
- SL/SR : Surround speakers
- SBL/SBR : Surround Back speakers
- SubW : Sub woofer speaker

OTHER FUNCTION

TV AUTO ON/OFF FUNCTION

This function allows the component connected to the TV-VIDEO in jack to control the power (ON/OFF) to the SR8400.

AUTO POWER ON

1. Be sure the TV auto mode is ENABLED. (Refer page 19 : System Setup)
2. Connect your TV TUNER (etc) to the TV-VIDEO in terminal. Be sure to connect the VIDEO input.
3. Turn OFF the power to the TV TUNER and the SR8400.
4. Turn ON the TV TUNER and tune in a receivable station.
5. When the station is received, the SR8400 turns ON and TV is selected automatically.

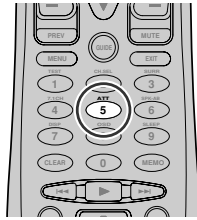
AUTO POWER OFF

1. In the above situation, turn the TV TUNER OFF or select a channel that does not contain any broadcast.
2. The power to the SR8400 switches to STANDBY after approx. 5 minutes.

Notes:

- AUTO POWER OFF is canceled if the SR8400 is set to a source other than TV. The function reactivates when TV is selected again.
- Some TV broadcasts may cause the TV AUTO FUNCTION to turn ON.
- The S-Video terminal does not support "TV AUTO ON/OFF" function.

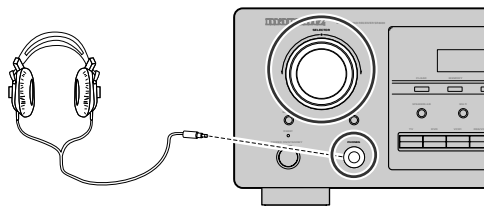
ATTENUATION TO ANALOG INPUT SIGNAL



If the selected analog audio input signal is greater than the capable level of internal processing, the "PEAK" indicator will light up on the front display. If this happens, you should press the **ATT** button on the remote. "ATT" indicator will be illuminated when this function is activated. The signal-input level is reduced by about half. Attenuation will not work with the output signal of TAPE-OUT, CD-R/MD-OUT, VCR1-OUT and DSS/VCR2-OUT. This function is memorized for each individual input source.

LISTENING THROUGH HEADPHONES

This jack may be used to listen to the SR8400's output through a pair of headphones. Be certain that the headphones have a standard 1/4" stereo phone plug. (Note that the speakers will automatically be turned off when the headphone jack is in use.)

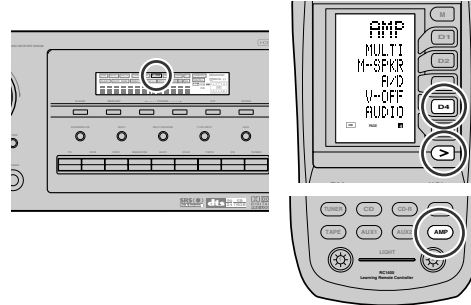


Notes:

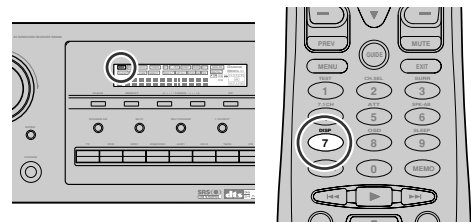
- When using headphones, the surround mode will change to STEREO and TruSurround (TS) headphones by SURROUND MODE selector.
- The surround mode returns to the previous setting as soon as the plug is removed from the jack.

VIDEO ON/OFF

When no video signal is connected to the SR8400 or a DVD, etc., is connected directly to your TV, the unnecessary video circuit can be turned off by selecting the "VIDEO OFF" setting. To select video off, press the **AMP** button and press the > button until PAGE4 is displayed. Press the **V-OFF (D4)** button.



DISPLAY MODE



You can select the display mode for the front display of the SR8400.

To select this mode, press the **DISP.** on the remote control.

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

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

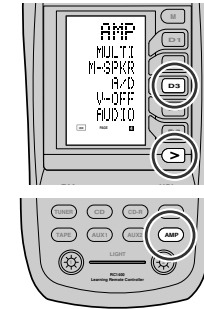
In Auto display off mode, the display is off. But, if you make a change to the unit such as input or surround mode, the display will show that change, then go back to off after about 3 seconds. When changing the volume, it is not displayed.

In Display off mode, the display is off completely.

Notes:

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

SELECTING ANALOG AUDIO INPUT OR DIGITAL AUDIO INPUT



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

Press the **AMP** button and press the > button until PAGE4 is displayed. Press the **A/D (D3)** button. When this button is pressed, the input mode is switched in the following sequence.

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

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

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

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

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

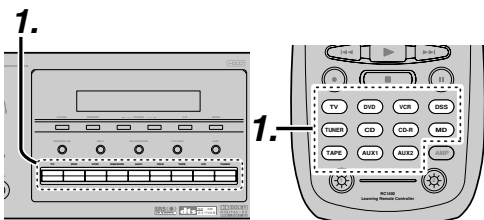
If you need to change the input mode completely, use SYSTEM SETUP in OSD menu system. (see page 18)

RECORDING AN ANALOG SOURCE

In normal operation, the audio or video source selected for listening through the SR8400 is sent to the record outputs.

This means that any program you are watching or listening to may be recorded simply by placing machines connected to the outputs for **TAPE OUT**, **CD-R/MD OUT**, **VCR1 OUT**, and **DSS/VCR2 OUT** in the record mode.

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

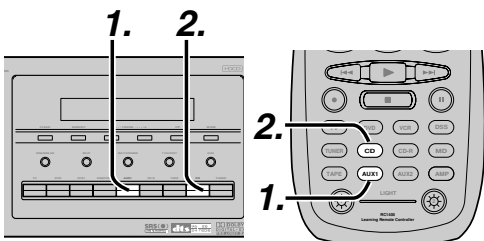


1. Select the input source to record by pressing the corresponding **input selector** button. The input source is now selected and you may watch or listen to it as desired.
2. The currently selected input source signal is output to the **TAPE OUT**, **CD-R/MD OUT**, **VCR1 OUT**, and **DSS/VCR2 OUT** outputs for recording.
3. Start recording to the recording component as desired.

Recording the video from one source and the audio from another

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

Below is an example of recording the sound from a compact disc player connected to CD IN and the video from a video camera connected to AUX IN to video cassette recorder connected to the VCR1 OUT jack.



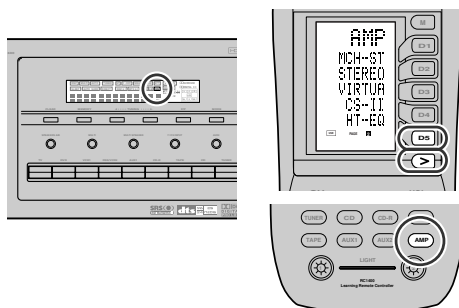
1. Press the **AUX1** input source button to set video output.
2. Press the **CD** input source button to set audio output.
3. Now "CD" has been selected as the audio input source and "AUX1" as the video input source.

Notes:

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

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

HT-EQ

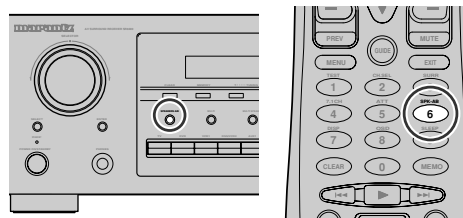


Press the **AMP** button and press the > button until PAGE2 is displayed. Press the **HT-EQ (D5)** button to turn on the HT-EQ mode.

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

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

SPEAKER A/B



SR8400 has speaker system - A and speaker system-B for front L/R channels.

You can select these systems by pressing **SPEAKERS A/B** button on the front panel or **SPK-AB** on the remote

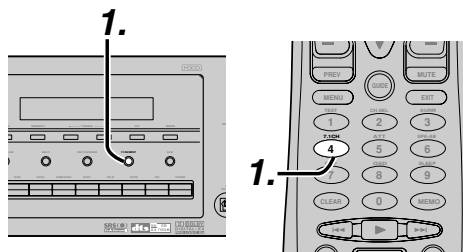
7.1 CH INPUT.

The SR8400 is equipped for future expansion through the use of Multi channel SACD multichannel player or DVD-Audio player.

When this is selected, the input signals connected to the L(front left), R (front right), CENTER, SL (surround left), SR (surround right), SBL (surround back left) and SBR (surround back right) channels of the 7.1 CH. In jacks are output directly to the front (left and right), center, surround (left and right) and surround back speaker systems as well as the pre-out jacks without passing through the surround circuitry.

In addition, the signal input to the SW (subwoofer) jack is output to the PRE OUT SW (subwoofer) jack.

The video input source is selected in the SETUP MAIN MENU to use this procedure. (Refer to 7.1 CH INPUT LEVEL, page 21)



1. Press the **7.1 CH INPUT** button on the front panel or press **7.1CH** on the remote to switch the 7.1 channel input.

2. If it is necessary to adjust the output level of each channel, use "7.1 Ch. INPUT LEVEL" in the OSD menu system as desired. Adjust the speaker output levels so that you can hear the same sound level from each speaker at the listening position. For the front left, front right, center, surround left, surround right and surround back speakers, the output levels can be adjusted between -10 to +10 dB. The subwoofer can be adjusted between -15 and +10 dB. These adjustments will be stored to 7.1 Ch. INPUT memory. (see to page 21)
3. Adjust the main volume with the **MAIN VOLUME** knob or the **VOL** buttons on the remote.

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

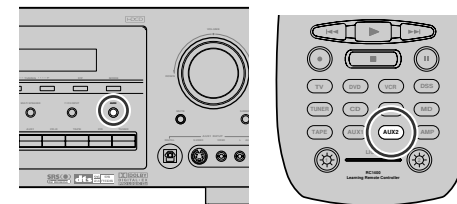
Notes:

- When the 7.1 Ch. Input is in use, you may not select a surround mode, as the external decoder determines processing.
- In addition, there is no signal at the record outputs when the 7.1 Ch. Input is in use.
- SBL and SBR of the speaker terminals are emitted no signal when the SURROUND BACK SPEAKER is set NONE in SPEAKER SETUP menu. (See SPEAKER SETUP, page 18)

AUX2 INPUT

If you don't need to connect 7.1 Ch. input terminals with multi channel decoder, L(front left) and R (front right) inputs terminals are available as AUX2 input.

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



BASIC OPERATION (TUNER)

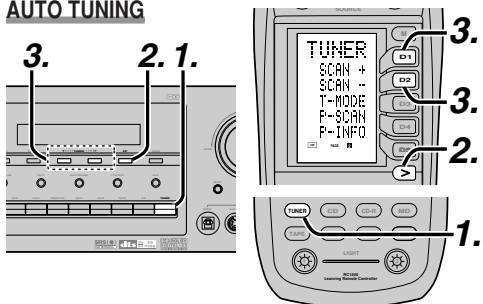
LISTENING TO THE TUNER

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

Note:

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

AUTO TUNING



(Using the SR8400)

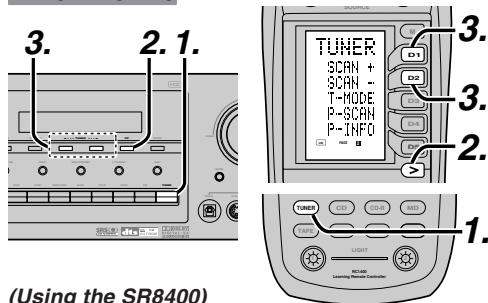
1. To select tuner and desired band (FM or AM), press the **TUNER** button on the front panel.
2. **F/P** button on the front panel to display the frequency.
3. Press the **TUNING** ◀ or ▶ button on the front panel for more than 1 second to start the Auto tuning function.
4. Automatic searching begins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

(Using the remote control unit)

1. To select tuner and desired band (FM or AM), press the **TUNER** button twice within two seconds on the remote.
2. Press the > button until PAGE2 is displayed.
3. Press and hold the **SCAN+** (D1) or **SCAN-** (D2) button for 1 second or more.
4. Automatic searching begins then stops when a station is tuned in.

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

MANUAL TUNING



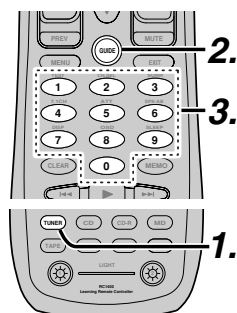
(Using the SR8400)

1. To select tuner and desired band (FM or AM), press the **TUNER** button on the front panel
2. Press the **F/P (Frequency/Preset)** button on front panel, to have the frequency appear on the display.
3. Press the **TUNING** ◀ or ▶ buttons.

(Using the remote control unit)

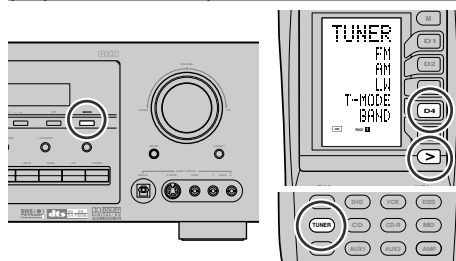
1. To select tuner and desired band (FM or AM), press the **TUNER** button twice within two seconds on the remote.
2. Press the > button until PAGE2 is displayed
3. Press the **SCAN+** (D1) or **SCAN-** (D2) button to tune in the deseired station.

DIRECT FREQUENCY CALL



1. To select tuner and desired band (FM or AM), press the **TUNER** button twice within two seconds on the remote.
2. Press the **GUIDE** on the remote, display will show "FREQ ----".
3. Input your desired station's frequency with the ten numbered keypad on the remote.
4. The desired station will automatically be tuned.

(FM) TUNING MODE (AUTO STEREO OR MONO)



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

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

At open frequencies, the noise is muted and the "TUNED" and "ST" indicators are not illuminated. If the signal is weak, it may be difficult to tune into the station in stereo. In such a case, press the **MODE** button on the front panel.Or press the **TUNER** button and press the the > button until PAGE1 is displayed. Press the **T-MODE (D4)** button.

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

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

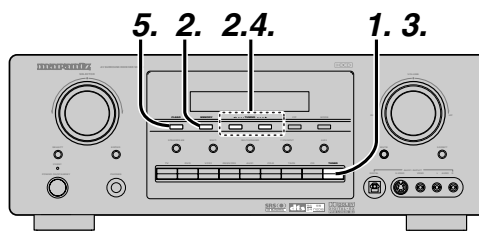
PRESET MEMORY

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

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

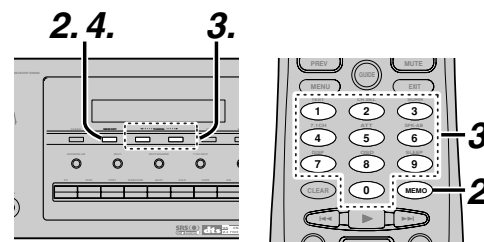
AUTO PRESET MEMORY

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



1. To select FM , press the **TUNER** button on the front panel.
2. While pressing the **MEMORY** button, press the **TUNING** ▶ button up. "AUTO PRESET" will appear on the display, and scanning starts from the lowest frequency.
3. Each time the tuner finds a station, scanning will pause and the station will be played for five seconds. During this time, the following operations are possible. The band can be changed by the **TUNER** button. If no button is pressed during this period, the current station is memorized in location Preset 02. If you wish to skip the current station, press the **TUNING** ▶ button during this period, this station is skipped and auto presetting continues.
4. Operation stops automatically when all 50 preset memory positions are filled or when auto scanning attains the highest end of all bands. If you desire to stop the auto preset memory at anytime, press the **CLEAR** button.
- 5.

MANUAL PRESET MEMORY



(Using the SR8400)

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

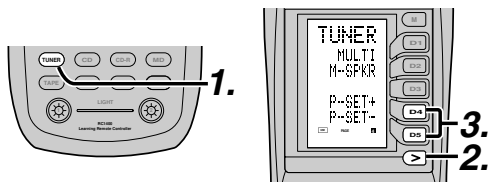
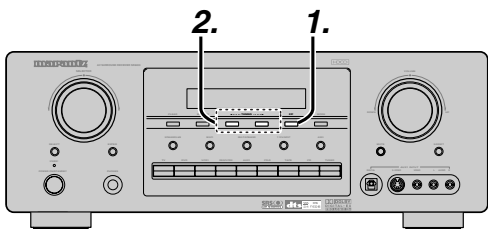
(Using the remote control unit)

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

Note:

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

RECALLING A PRESET STATION



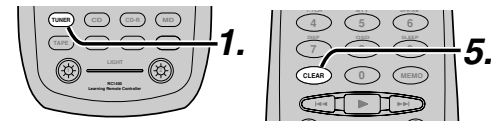
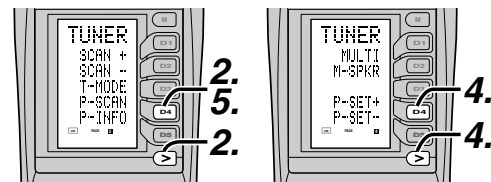
(Using the SR8400)

1. Press the **F/P** button to show the preset station on the display.
2. Select the desired preset station by pressing the **TUNING** ◀ or ▶ buttons on the front panel.

(Using the remote control unit)

1. Press the **TUNER** button twice within two seconds on the remote.
2. Press the > button until **PAGE4** is displayed
3. Press the **P-SET+ (D4)** or **P-SET- (D5)** button to tune in the desired preset station.
Or enter the preset station number with the **numeric** buttons.

PRESET SCAN

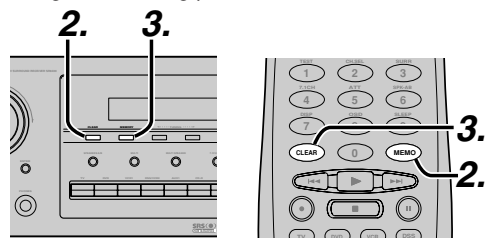


(Using the remote control unit)

1. Press the **TUNER** button twice within two seconds on the remote.
2. Press the > button until **PAGE2** is displayed and press the **P-SCAN (D4)** on the remote. “**PRESET SCAN**” appears on the front display and then the preset station with the lowest preset number is recalled first.
3. Preset stations are recalled in sequence (No.1 → No.2 → etc.) for 5 seconds each. No stored preset number will be skipped.
4. You can fast forward the preset stations, press the > button until **PAGE4** is displayed and press the **P-SET+ (D4)** continuously.
5. When the desired preset station is received, cancel the preset scan operation by pressing the **CLEAR** button or **P-SCAN (D4)** on the remote.

CLEARING STORED PRESET STATIONS

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



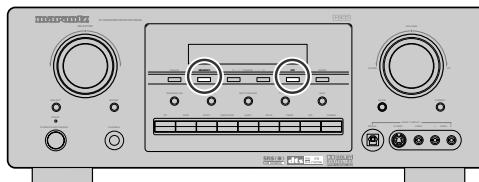
1. Recall the preset number to be cleared with the method described in “Recalling” a preset station.
2. Press the **MEMORY** button on the front panel or press the **MEMO** button on the remote.
3. The stored preset number blinks in the display for 5 seconds. While blinking, press the **CLEAR** button on the front panel or the remote.

4. “**xx CLEAR**” appears on the display to indicate that the specified preset number has been cleared.

Notes:

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

SORTING PRESET STATIONS



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

i.e. the stations are stored as follows

- 1) 87.5 MHz
- 2) 93.1 MHz
- 3) 94.7 MHz
- 10) 105.9 MHz

(notice there is no stations programmed for pre sets for 4-9), you can have pre set 10 become pre set 5:

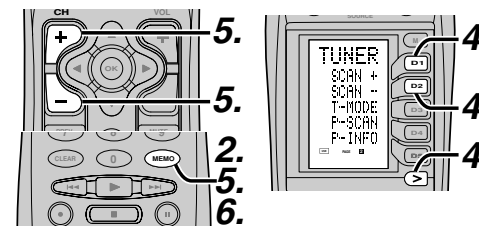
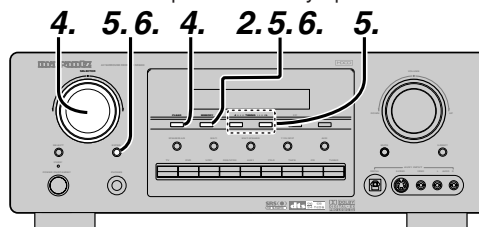
To sort the numbers, press and hold the **MEMORY** and the **F/P** buttons.

“**PRESET SORT**” will appear on the display and sorting will be done.

NAME INPUT OF THE PRESET STATION.

This function allows the name of each preset channel to be entered using alphanumeric characters.

Before name inputting, you need to store preset stations with the preset memory operation.



1. Recall the preset number to be inputted name with the method described in “Recalling” a preset station.
2. Press the **MEMORY** button on the front panel or press the **MEMO** button on the remote for more than 3 seconds.
3. The left most column of the station name indicator flashes, indicating the character entry ready status.
4. When the **SELECT** knob is turned, or press the > button until **PAGE2** is displayed and press the **SCAN+ (D1)** or **SCAN- (D2)** on the remote, alphabetic and numeric characters will be displayed in the following order:
A → B → C ... Z → 1 → 2 → 3 0 → - → + → / → (Blank) → A
UP →
← DOWN
5. After selecting the first character to be entered, press the **MEMORY** or **ENTER** buttons, press the **MEMO** button on the remote. The entry in this column is fixed and the next column starts to flash. Fill the next column the same way. To move back and forth between the characters, press the **TUNING** ◀ / ▶ buttons. Or the **CH+** or **CH-** on the remote.
Note:
 • Unused columns should be filled by entering blanks.
6. To save the name, press the **MEMORY** or the **ENTER** button, press the **MEMO** button on the remote for more than 2 seconds.

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

MULTI ROOM SYSTEM

The Multi Room system is a function which allows you to listen to the same or a different source in a room other than the room in which the SR8400 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.

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

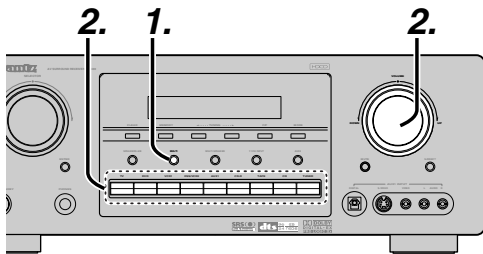
SR8400 has some feature to MULTI ROOM SYSTEM as source selector, OSD information, sleep timer, Multi Room Speaker output and remote control.

MULTI ROOM PLAYBACK USING THE MULTI ROOM OUT TERMINALS

The SR8400 is equipped with audio pre-out terminals for which the volume is adjustable and composite video output terminals as the MULTI ROOM output terminals.

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

Operation to MULTI ROOM OUT without the remote controller.



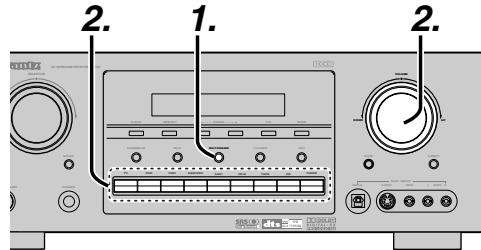
1. Press the **MULTI ROOM** button. The unit enters multi room mode and the display indicates "SELCT SOURCE" and flashes the "MULTI" indicator for approx. 10 seconds.

2. In this time, you can select the input source by pressing the input selector buttons. Then, the display indicates "MULTI VOLUME" "MULTI VOL. xx" for approx. 5 seconds.
3. During this time, you can set the volume level in the multi room as desired. This will only set the volume in the second room.

MULTI ROOM PLAYBACK USING THE MULTI SPEAKER TERMINALS

The SR8400 allows you to connect another set of speakers and place them in a different room or separated area for listening to music.

Operation to MULTI ROOM SPEAKER without the remote controller.

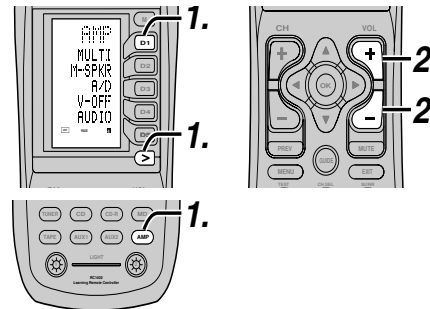


1. Press the **MULTI SPEAKER** button. The unit enters multi room mode and the display indicates "SELCT SOURCE" and flashes the "MULTI" indicators for approx. 10 seconds.
2. In this time, you can select the input source by pressing the input selector buttons.
3. Then, the display indicates "MSPKR VOLUME" "MSPKR VOL.-18" for approx. 5 seconds. During this time, you can set the volume level in the multi room as desired. This will only set the volume in the multi room.

Notes for MULTI ROOM SPEAKER

- MULTI ROOM SPEAKER On/ Off is available in main room only.
- MULTI ROOM SPEAKER output terminals can be used when the SURROUND BACK SPEAKER is set NONE in SPEAKER SETUP menu. (See SPEAKER SETUP, page 18)
- "The Surr. Back Speakers are in use" is displayed by pressing the **MULTI SPEAKER** button when the SURROUND BACK SPEAKER is set except NONE in SPEAKER SETUP menu. (See SPEAKER SETUP, page 18)

OPERATION OF THE MULTI ROOM OUTPUTS WITH THE REMOTE CONTROL FROM A SECOND ROOM.



1. Press **MULTI** on the multi room remote control from the MULTI ROOM. (Press the **AMP** button and press the > button until PAGE4 is displayed. Press the **MULTI (D1)** button.) This operations will put the SR8400 into multi room mode and "MULTI" will be illuminated on the display. MULTI ROOM Video output will show OSD information for the MULTI ROOM setup.

MULTI ROOM	
VIDEO	: VCR1
AUDIO	: FM 102.00
SLEEP TIMER	: 90 min
MULTI	: OFF
MSPKR	: OFF
VOL	: VARI
VOL	: VARI
LEVEL	: -90dB
LEVEL	: -90dB
- - - MAIN-ROOM STATUS - - -	
VIDEO	: DVD
AUDIO	: DVD

2. Press the **VOL +** or **VOL -** button on the multi room remote control to set the desired volume.
3. In multi room mode, the multi room remote control can be used in the multiroom to operate the following functions.

General:

Controlling volume level, sleep timer, and muting. Selecting input audio and video source

Tuner:

Selecting band, controlling preset channel up and down, tuning up and down, direct frequency call.

Notes for the multi room system:

- The MULTI ROOM OUT has analog outputs. This does not support digital input signals.
- If the Tuner (FM or AM) is active in the main room, you can not control any function of the tuner.

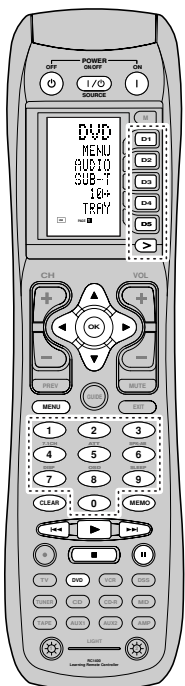
In this case, You must listen to the same satiation as the main room.

REMOTE CONTROLLER OPERATION

CONTROLLING MARANTZ COMPONENTS

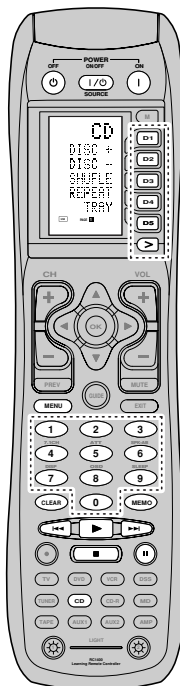
1. Press the desired function button.
 - The selected function name and USE are displayed in the LCD.
2. Press the desired operation buttons to play the selected component.
 - For details, refer to the component's user guide.
 - It may not be possible to operate some models.

CONTROLLING A MARANTZ DVD PLAYER (DVD MODE)



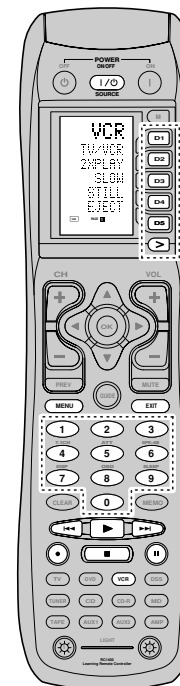
SOURCE ON/OFF	Turns the DVD player on and off
POWER ON	Turns the DVD player on
POWER OFF	Turns the DVD player off
D1 - D5 / >(Page)	(Refer to page vi)
Cursor/OK	Move the cursor, enters the setting
MENU	Calls up the menu of DVD disc
0-9	Input the numeric
MEMO	Call up the programming menu
CLEAR	Clears the inputting
▶	Play
◀▶ / ▶▶	Skip forward or previous chapter/track
■	Stop
	Pause

CONTROLLING A MARANTZ CD PLAYER (CD MODE)



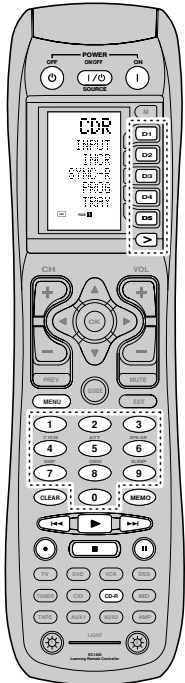
SOURCE ON/OFF	Turns the CD player on and off
POWER ON	Turns the CD player on
POWER OFF	Turns the CD player off
D1 - D5 / >(Page)	(Refer to page vi)
MENU	Switches the display information
0-9	Input the numeric
MEMO	Programs
CLEAR	Clears the inputting
▶	Play
◀▶ / ▶▶	Skip forward or previous track
■	Stop
	Pause

CONTROLLING A MARANTZ VCR (VCR MODE)



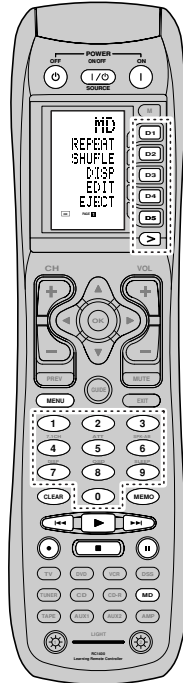
SOURCE ON/OFF	Turns the VCR on and off
D1 - D5 / >(Page)	(Refer to page vi)
MENU	Call up the menu
EXIT	Exits the programming menu
0-9	Input the numeric
▶	Play
◀▶ / ▶▶	Skip forward or previous track
■	Stop
	Pause
●	Record

CONTROLLING A MARANTZ CD RECORDER (CDR MODE)



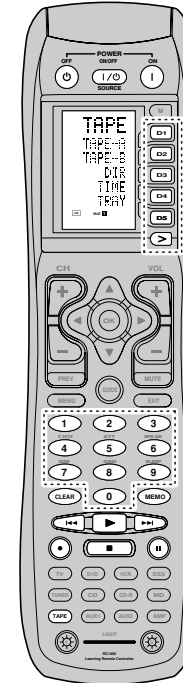
SOURCE ON/OFF	Turns the CD recorder on and off
POWER ON	Turns the CD recorder on
POWER OFF	Turns the CD recorder off
D1 - D5 / >(Page)	(Refer to page vi)
MENU	Switches the display information
0-9	Input the numeric
MEMO	Programs
CLEAR	Clears the inputting
▶	Play
⏮ / ⏭	Skip forward or previous track
■	Stop
⏸	Pause
●	Record

CONTROLLING A MARANTZ MD DECK (MD MODE)



SOURCE ON/OFF	Turns the MD deck on and off
POWER ON	Turns the MD deck on
POWER OFF	Turns the MD deck off
D1 - D5 / >(Page)	(Refer to page vi)
MENU	Switches the display information
0-9	Input the numeric
MEMO	Programs
CLEAR	Clears the inputting
▶	Play
⏮ / ⏭	Skip forward or previous track
■	Stop
⏸	Pause
●	Record

CONTROLLING A MARANTZ TAPE DECK (TAPE MODE)



SOURCE ON/OFF	Turns the TAPE deck on and off
POWER ON	Turns the TAPE deck on
POWER OFF	Turns the TAPE deck off
D1 - D5 / >(Page)	(Refer to page vi)
0-9	Input the numeric
MEMO	Programs
CLEAR	Clears the inputting
▶	Play
⏮ / ⏭	Skip forward or previous track
■	Stop
⏸	Pause
●	Record

BASIC OPERATION

USE MODE

(Normal operation status)

This remote control is preset with a total of 12 types of remote codes, including Marantz TV (television), DVD, VCR (VCR deck), DSS (satellite broadcasting tuner), TUNER, CD, CD-R, MD, TAPE (tape deck), AUX1, AUX2, and AMP (amplifier).

Learning is not necessary for Marantz products. You can use these products without setting any codes.

1. Press the **SOURCE** button.


For this example, press DVD.

DVD is shown on the LCD, and the remote control is set for DVD.

Pressing the source button once changes the remote control to the settings for the source that was pressed.

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

2. Press the buttons to operate the DVD.

The  indicator is shown on the LCD while the remote control codes are being transmitted. It is not displayed when buttons without stored code are pressed.

3. The direct buttons can be used to perform up to 20 operations for each of the 12 sources, including DVD, TV, AMP, and other AV equipment.

The buttons consist of the D1 to D5 buttons, and the equipment is operated by pressing the buttons corresponding to the indicators on the LCD.

Four pages are available, and press the > button to select a page. The current page position is displayed on the LCD.

PRESET MODE

(When operating non-Marantz AV equipment products)

This remote control is preset with remote control codes from AV equipment by other manufacturers. The preset codes are TV, VCR, LD, CABLE, DSS, DVD, TAPE, TUNER, CD, CD-R, MD and AMP. Settings can be made in one of two ways.

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

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

Remote control source name	Corresponding preset code	Device name
TV	TV	Television
DVD	DVD	DVD player
VCR	VCR	Video deck
DSS	SATELLITE	Satellite broadcasting tuner equipment
TUNER	RECEIVER/TUNER	AM FM TUNER
CD	CD/CD-R PLAYER	CD player
CD-R	CD/CD-R PLAYER	CD recorder
MD	CD/CD-R PLAYER	MD deck
TAPE	TAPE	Cassette deck
AUX1	CABLE	Cable television
AUX2	LASER DISC	Laser disc player
AMP	AMPLIFIER	Amplifier or receiver
	RECEIVER/TUNER	

- When using Marantz products, TV and DVD can be set to TV1 (TV/VDP: Projector) and TV2 (PDP: Plasma display), and DVD1 (first DVD player) and DVD2 (second DVD player), respectively, to match the customer's operating environment. These settings are made in PRESET mode.

In the factory default state, the remote control is set to TV1 and DVD1. To make the presets, enter the numbers below while referring to the section "Entering and Setting the Manufacturer Number Directly".

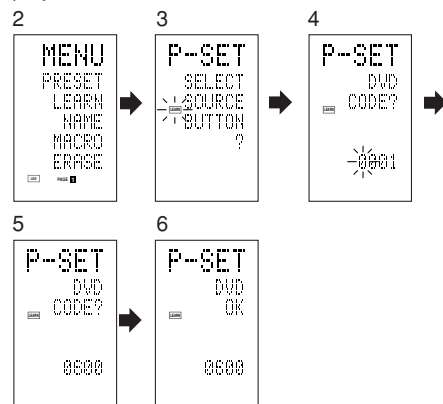
TV1: 0001, TV2: 0002

DVD1: 0001, DVD2: 0002

Entering and Setting the Manufacturer Number Directly

Refer to the manufacturer number list.

This example shows how to set a SAMSUNG DVD player.



- View the supplied manufacturer number list, and find the number of the manufacturer for the device that you are using.
- Hold down the **M** button for three seconds or more. The menu is displayed.
- Press the **D1** (PRESET) direct button. The Preset setting (P-SET) is displayed.
- Press the **DVD** source button.
- Press the numeric buttons to enter the four-digit manufacturer number. Example: To enter "0600" from the manufacturer number list. To correct the entered number, use the ◀ or ▶ cursor button to enter the correct number.
 - If no button is pressed for over one minute during the setting process, any settings that were made are cancelled.
- Press the **OK** cursor button.
- Confirm the OK is displayed and then the display returns to the Preset Setting (P-SET). When the manufacturer number is entered correctly, OK is displayed momentarily on the screen.
 - If you enter a number not in the manufacturer number list, WRONG CODE is displayed, and then you return to the preset setting again. Check the manufacturer number list, and either set a different number or use the sequence function to set.
- To set the manufacturer number for another source device, repeat the procedure in steps 4 to 6.
- After the settings are completed, press the **M** button.
- Press the buttons on the remote control to check that the DVD can be operated correctly.

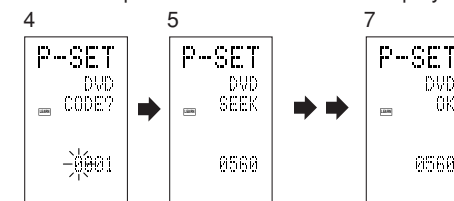
Setting Equipment Not Appearing in Manufacturer Number List

Use the sequence function to set equipment not appearing in the manufacturer number list. You may still be unable to set some equipment even when using the sequence function. In this case, the remote control can be programmed with codes individually.

In the sequence function, the power ON/OFF codes are transmitted by pressing the remote control buttons in order.

If the power for the equipment is left on, hold down the button until the equipment is turned off, and then release. This completes the setting.

This example shows how to set a DVD player.



- Turn on the power of the DVD player.
- Hold down the **M** button for three seconds or more. The menu is displayed.
- Press the **D1** (PRESET) direct button. The Preset setting (P-SET) is displayed.
- Press the **DVD** source button.
- Hold down the **CH+** or **CH-** button for one second or more.
- Press the **CH+** button repeatedly in the interval for one second. The signal is transmitted, and the display cycles through the code number. Press the CH- button to go back to a number screen.
- Release the button once the DVD player turns off.
- Press the **OK** cursor button.
- Confirm the OK is displayed and then the display returns to the Preset Setting (P-SET).
- To set the manufacturer number for another source device, repeat the procedure in steps 4 to 8.
- After the settings are completed, press the **M** button.
- Press the buttons on the remote control to check that the DVD can be operated correctly.

Check the following points if the equipment which was set does not operate properly.

- If there is more than one number in the manufacturer number list, try setting a different number.
- There may be some buttons which cannot be used. Program the codes to the required buttons.

LEARN MODE

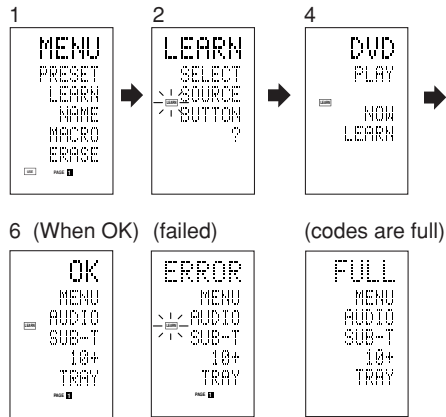
Programming the ► (PLAY) and Other Control Buttons and Numeric Buttons

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

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

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

This example shows how to learn the codes from the remote control of a DVD player.



1. Hold down the **M** button for three seconds or more.
The menu is displayed.
2. Press the **D2** (LEARN) direct button.
The LEARN setting (LEARN) is displayed. The **LEARN** indicator then blinks.
3. Press the **DVD** source button.
4. Press the ► (PLAY) button.
The **LEARN** indicator blinks, and then displays to indicate that learning is ready.
5. Place the receiver sensor of the remote control (top) so that it is facing the transmitter of the DVD remote control (top) at a distance of about 5 cm (2 inches).
6. Press and hold down the ► (PLAY) button of the transmitting DVD remote control, and check that OK is displayed on the LCD.
The remote control has finished learning when OK is displayed on the LCD.

If ERROR is displayed on the LCD, some error has prevented the command from being learned. If this happens, repeat the procedure for steps 4 and 5. In some rare cases, ERROR may be displayed repeatedly during the learning operation. In this case, the transmitting remote control may have special signal codes. These codes cannot be learned by this remote control.

7. Follow the same procedure to make the remote control learn the other buttons.
8. Repeat the procedure in steps 3 to 6 to have the remote control learn the signal codes from a TV, CD player, or other AV equipment.
 - When no buttons are pressed for approximately one minute during the learning operation, the remote control automatically returns to USE mode.
 - When programming the source buttons, switch to the source in step 3, and then press the source button again.
9. When you have finished programming the codes for each button, press the **M** button.
The **USE** indicator is displayed on the LCD, and the newly stored codes can be used.
 - If FULL is displayed on the LCD, the memory cannot hold any more learned codes in LEARN mode.

If FULL is displayed no matter how many times you try the learning operation, the remote control cannot accept any more new codes until some of the previously learned codes are deleted from the memory. Delete some of the learned buttons from the sources.

Note:

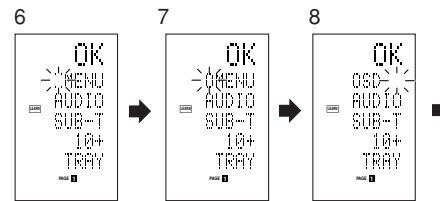
- To learn the remote control code, a button of the transmitting remote control should be pressed and held down until the "OK" is displayed on the LCD of the RC1400.

The holding time needs for 5 seconds or more. This time is depend on the remote control code.

The **M** button and > button cannot be taught. Only each one code can be learned for the **LIGHT** buttons 1 and 2, regardless of the source.

Programming the Direct Buttons and Rewriting Names

This example shows how to program codes from other manufacturer products to the DVD MENU button (D1) and change the display to OSD.



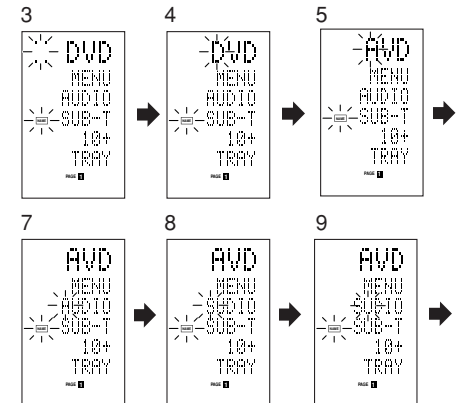
1. Hold down the **M** button for three seconds or more.
The menu is displayed.
2. Press the **D2** (LEARN) direct button.
The LEARN setting (LEARN) indicator is displayed. The **LEARN** indicator then blinks.
3. Press the **DVD** source button.
The first page of the direct button screen is displayed. There are four available pages. Pressing the > buttons cycles through the pages in this order 1 → 2 → 3 → 4 → 1.
4. Press the **D1** (MENU) direct button.
The **LEARN** indicator blinks, and then displays to indicate that learning is ready.
5. Place the receiver sensor of the remote control (top) so that it is facing the transmitter of the DVD remote control (top) at a distance of about 5 cm (2 inches).
6. Press and hold down the OSD button of the transmitting DVD remote control, and check that OK is displayed on the LCD.
The remote control has finished learning when OK is displayed on the LCD.
If ERROR is displayed on the LCD, some error has prevented the command from being learned. If this happens, repeat the procedure for steps 4 and 5.
 - After learning is completed, the remote control automatically switches to name rewriting mode. The left end ":" indicator on the MENU blinks to indicate that the blinking part can be rewritten.
 - If no names will be rewritten, press the OK cursor button. The display returns to learning standby mode by pressing the OK cursor button.
7. To change the name, press the numeric buttons to enter the text.
 - Use the cursor buttons ◀▶ to move to the sections to be rewritten on the LCD.

- To change MENU to OSD, press the 5 numeric button.
Each time the button is pressed, the display cycles through M → N → O → 5 → M.

8. After rewriting of the text is completed, press the **OK** cursor button.
To delete text that is already entered, press the 0 button to insert a space.
 - In this example, MENU is changed to "OSD (space) (space)" in this step, and then OSD is displayed in the right side by pressing the OK button.
- For details, refer to the section "Rewriting Names".
9. In the same way, use the > button to select the page, and then press the direct button to program the codes.
10. After programming the codes for each of the buttons, press the **M** button.
The **USE** indicator displays on the LCD, and the newly stored codes can be transmitted.

REWRITING NAMES

This remote control allows the rewriting of names for the sources and direct buttons. This operation is performed for each individual source. This example shows how to change the source name from DVD to AVD and AUDIO to SOUND.



1. Hold down the **M** button for three seconds or more.
The menu is displayed.

2. Press the **D3** (NAME) direct button .
3. Press the **DVD** source button .
The **[NAME]** indicator blinks.
The “:” blinks to indicate that the letter can be changed.
4. Press the **▶** cursor button twice.
The D in DVD blinks to indicate that the letter can be changed.
5. Press the **1** numeric button to select A.
Each time the numeric buttons are pressed, the button cycles through the alphanumeric characters shown below.
1: A → B → C → 1 → A
2: D → E → F → 2 → D
3: G → H → I → 3 → G
4: J → K → L → 4 → J
5: M → N → O → 5 → M
6: P → Q → R → 6 → P
7: S → T → U → 7 → S
8: V → W → X → 8 → V
9: Y → Z → / → 9 → Y
0: SPACE (:) → + → — → , → ’ → < → > → ? → 0 → SPACE (:))
6. Press the **◀** or **▶** cursor button .
The letter is changed to “A”.
• The **▲** and **▼** cursor buttons can be used to move the blinking indicator of the section to be rewritten.
7. Press the **▲** or **▼** cursor buttons to select AUDIO on the direct button indicator. The A flashes to indicate that the name can be changed.
8. Press the **7** numeric button to select S.
Each time the button is pressed, the button cycles through S → T → U → 7 → S.
9. Press the **▶** cursor button to move the flashing section.
10. Press the **5** numeric button to select O.
11. Follow the same procedure to enter U, N, and D.
12. When finished entering the text, press the **OK** cursor button .
13. Press the **M** button .
The **[USE]** indicator displays on the LCD, and the newly stored codes can be used.
The input is overwritten, and so the currently displayed text is erased.
Up to six characters can be entered for the direct button indicator.

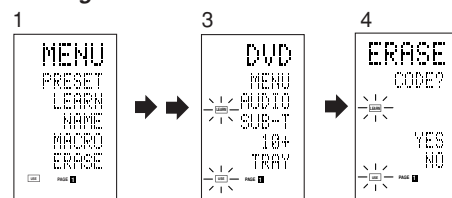
ERASING PROGRAMMED CODES (RETURNING TO INITIAL SETTINGS)

Codes can be erased in five ways: by buttons, direct buttons, direct button pages, sources, and by all memory contents.

Erasing Buttons and Erasing Direct Buttons

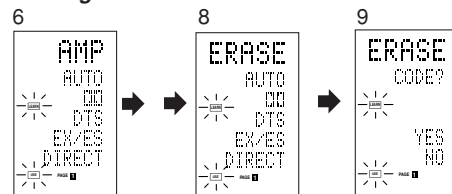
This example shows how to erase the code learned from the PLAY button of the DVD player and the AUTO code of the AMP direct button.

Erasing buttons



1. Hold down the **M** button for three seconds or more.
The menu is displayed.
2. Press the **D5** (ERASE) direct button .
3. Press the **DVD** source button .
The **[USE]** and **[LEARN]** indicators blink.
4. Press the button (**▶**: PLAY) that you want to erase while holding down the **CLEAR** button .
A message is displayed on the LCD.
5. Press the **D4** (YES) direct button to erase.
The code programmed to the (**▶**:PLAY) button is erased.
When the code is cleared, the code for this button resets to the factory default code or becomes blank.
• To cancel the erasing operation, press the **D5** (NO) button to return to the previous display.
To erase codes programmed for the **CLEAR** button, simply press the **CLEAR** button twice.
To erase codes programmed for the **SOURCE** button, simply press the **SOURCE** button twice.

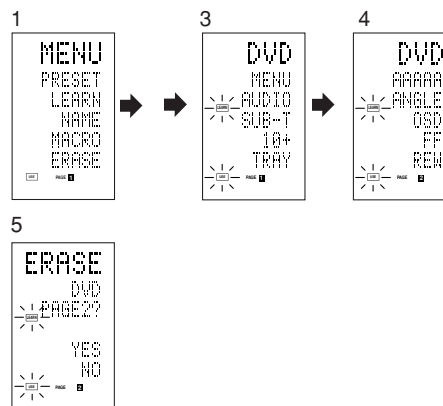
Erasing direct buttons



6. Press the **AMP** source button .
7. Press the **>** button to display the first page for AMP.
8. Press the **D1** (AUTO) direct button to be erased while holding down the **CLEAR** button .
9. Press the **D4** (YES) direct button to erase.
The code programmed to the AUTO button is erased.
When the code is cleared, the code for this button resets to the factory default code or becomes blank.
The rewritten name returns to the original name.
• To cancel the erasing operation, press the **D5** (NO) button to return to the previous screen.
10. When the erasing operation is finished, press the **M** button .
The **[USE]** indicator displays to indicate that the remote control can now be operated.

Erasing Direct Button Pages

This example shows how to erase the entire direct button second page learned from the DVD player.



1. Hold down the **M** button for three seconds or more.
The menu is displayed.
2. Press the **D5** (ERASE) direct button .
3. Press the **DVD** source button .
The **[USE]** and **[LEARN]** indicators blink.
4. Press the **>** button to display the second page.
5. Press the **>** button while holding down the **CLEAR** button .
6. Press the **D4** (YES) direct button to erase.

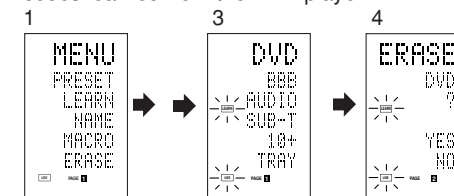
All codes and names programmed to page 2 are erased. When the codes are cleared, the codes for this button reset to the factory default code or become blank. Any rewritten names return to the original name.

- To cancel the erasing operation, press the **D5** (NO) button to return to the previous screen.
7. When the erasing operation is finished, press the **M** button .
The **[USE]** indicator lights up to indicate that the remote control can now be operated.

Erasing Sources

This procedure clears all codes and names programmed to the DVD, TV, or other sources. All codes and names in the four direct button pages are also erased.

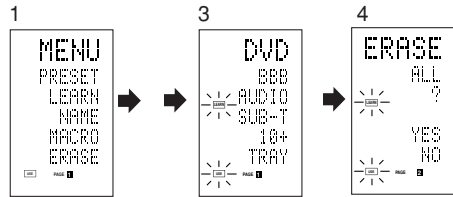
This example shows how to erase the names and codes learned from the DVD player.



1. Hold down the **M** button for three seconds or more.
The menu is displayed.
2. Press the **D5** (ERASE) direct button .
3. Press the **DVD** source button .
The **[USE]** and **[LEARN]** indicators blink.
4. Press the **DVD** source button while holding down the **CLEAR** button .
5. Press the **D4** (YES) direct button to erase.
All codes and names programmed to the DVD source are erased. When the codes are cleared, the codes for this button reset to the factory default code or become blank. Any rewritten names return to the original name.
• To cancel the erasing operation, press the **D5** (NO) button to return to the previous display.
6. When the erasing operation is finished, press the **M** button .
The **[USE]** indicator displays to indicate that the remote control can now be operated.

Erasing All

This procedure clears (resets) all programmed codes and names. Once all the data is cleared, the memory is returned to the factory default status. The programmed macros are also erased.



1. Hold down the **M** button for three seconds or more.
The menu is displayed.
2. Press the **D5** (ERASE) direct button .
The **[USE]** and **[LEARN]** indicators blink.
3. Press the **CLEAR** button while holding down the **POWER ON** and **OFF** buttons at the same time.
4. Press the **D4** (YES) direct button to erase.
All programmed codes and names are erased and reset to the factory default settings.
 - To cancel the erasing operation, press the **D5** (NO) button to return to the previous screen.
 - To erase all operation takes a few seconds after the **D4** (YES) button is pressed.

PROGRAMMING MACROS

This remote control can program a series of button operations in sequence.

Macros are a function that makes it possible to use a single button operation to perform a complex series of button operations any number of times. A single button can be programmed to perform up to 20 steps in sequence. A total of 20 buttons can be programmed with macros.

- For example, the following sequence of operations can be programmed to a macro.

Switch amplifier to DVD source → Set amplifier mode to AUTO → Play DVD player → Switch TV to video input

The factory default for the transmission interval (time) between macro operations is one second, but these signal transmission intervals can be set between approximately 0.5 seconds and 5 seconds in the Setup mode. Each transmission interval can be adjusted independently when programming or revising a macro.

Note:

If the signal transmission interval (interval time) is changed using the Setup mode (described later), this transmission interval is applied to all macro programs. To change individual signal transmission intervals, use the procedures in this section for programming macros and revising macros.

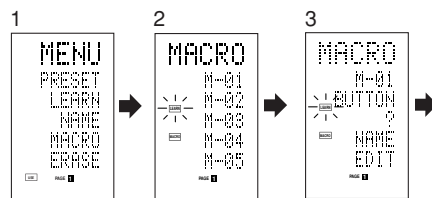
- No signals are transmitted while programming a macro.
- The **M** button, **>** button, cursor buttons, **MEMO** button, **CLEAR** button, and **VOL** buttons cannot be programmed.
- If no button is pressed for approximately one minute during programming, the remote control returns to the state before macro mode.
In this case, the macro program is not stored.
- When executing macro mode, performing the source switching operation two or more times only changes the remote control mode and does not transmit any signals. (Switching of the source selector of the amplifier is valid only once.)

PROGRAMMING MACROS

This example shows how to program a macro to the M-01 button.

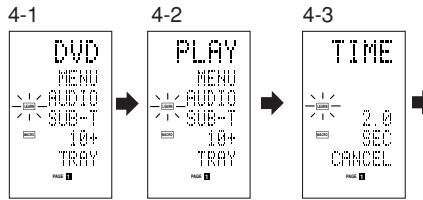
(The screens shown in the example are the default factory states. If the names of direct buttons were rewritten, these modified names would be displayed.)

Switch amplifier to DVD source → Play DVD player → Set the interval to 2 seconds until the next signal is sent → Switch TV to video input → Set the amplifier mode to AUTO



1. Hold down the **M** button for three seconds or more.
The menu is displayed.
2. Press the **D4** (MACRO) direct button .
The macro menu is displayed.
The **[MACRO]** indicator displays and **[LEARN]** blinks.
3. Press the **D1** (M-01) direct button .
The menu has four pages, and so use the **>** button to select the page when programming other buttons.

4. Press the buttons in the sequence that you want the operations performed.
The actual program starts here.
Each time a button is pressed, the name of the button is displayed on the LCD.



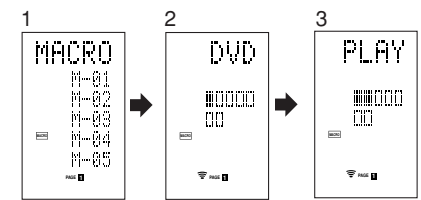
- 4.1. Press the **DVD** source button .
- 4.2. Press the **▶** (PLAY) button .
- 4.3. Press the **▲** or **▼** cursor buttons .
The interval time is displayed on the LCD.
- 4.4. Press the **▲** or **▼** cursor buttons and set to 2.0 (seconds).
 - Use the **▲** cursor button to increase the time and the **▼** button to decrease the time. The interval time can be set from 0.5 seconds to 5 seconds.
 - To stop the time adjustment, press the **D5** (CANCEL) direct button.
- 4.5. Press the **OK** cursor button .
- 4.6. Press the **TV** source button .
- 4.7. Press the **>** button to display the first page.
- 4.8. Press the **D1** (INPUT) direct button .
- 4.9. Press the AMP source button .
- 4.10. Press the **>** button to display the first page.
- 4.11. Press the **D1** (AUTO) direct button .
- 4.12. Press the **OK** cursor button .

The LCD displays END to indicate that programming is completed.

5. To program another macro, repeat the procedure in steps 3 to 4-12.
6. To exit macro programming, press the **M** button .

The **[USE]** indicator displays to indicate that the remote control can now be operated.
When the macro are programmed 20 operations or more, the display returns macro menu.
Edit the macro so that it has 20 operations or less.

EXECUTING MACRO PROGRAMS



1. Press the **M** button shortly.
The macro menu is displayed.
2. Press the **D1** (M-01) direct button .
3. Check that the operations of the program are executed step by step.
The name of the operation button is displayed on the LCD.
 - The programmed section is indicated by **□**.
The bar indicator moves to indicate the progress of the program.

Select DVD source → PLAY transmit → Interval time: 2 seconds → Select TV → TV INPUT transmit → Select AMP → AUTO transmit → End

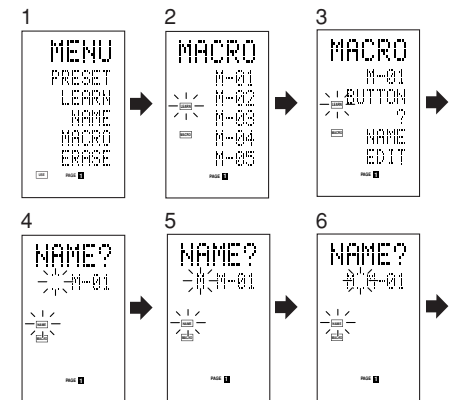
 - To cancel transmission of the program while it is in progress, press any button.

CHANGING NAMES OF MACRO PROGRAMS

Under the factory default settings, the names of the macro programs are set from M-01 to M-20, but you can change them to any desired name.

The text can have up to six characters, and it is entered using the numeric buttons.

This example shows how to change the M-01 name to MOVIE.

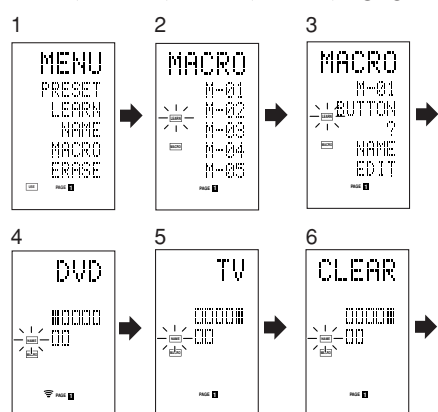


1. Hold down the **M** button for three seconds or more.
The menu is displayed.
2. Press the **D4** (MACRO) direct button .
The macro menu is displayed.
The **MACRO** indicator displays and **LEARN** blinks.
3. Press the **D1** (M-01) direct button .
The NAME is displayed.
4. Press the **D3** (NAME) direct button .
The “:” blinks to indicate that rewriting is possible.
5. Press the **5** numeric button to select M.
6. Press the **▶** cursor button to next.
The “:” blinks to indicate that rewriting is possible.
7. Press the **5** numeric button to select O.
8. Repeat steps 6 and 7, and then enter V, I, E and “: (space)” .
• To make changes in the text while entering it, use the **◀** or **▶** cursor buttons to move to the blinking section.
9. After making the changes, press the **OK** cursor button .
• To change the names of other macro programs, repeat the procedure in steps 3 to 9.
10. To exit, press the **M** button .

ERASING STEPS OF MACRO PROGRAMS

This example shows how to delete the TV and INPUT steps from the following macro programmed to M-01.

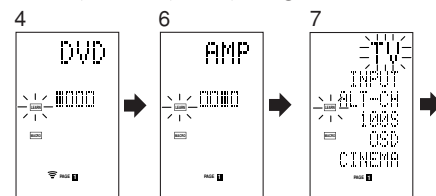
The program is changed from
DVD → PLAY → TIME → TV → INPUT → AMP → AUTO
to
DVD → PLAY → TIME → AMP → AUTO.



1. Hold down the **M** button for three seconds or more.
The menu is displayed.
2. Press the **D4** (MACRO) direct button .
The macro menu is displayed.
The **MACRO** indicator displays and **LEARN** blinks.
3. Press the **D1** (M-01) direct button .
4. Press the **D5** (EDIT) direct button .
The LCD displays DVD, and the step position is indicated by ■.
The programmed section is indicated by □.
5. Press the **▶** cursor button to display TV.
6. Press the **CLEAR** button .
The LCD displays CLEAR, and TV and INPUT are deleted.
When deleting steps from a macro program, the operations performed for a source after switching to the source are also deleted.
If the CLEAR button is pressed at the INPUT position, only the INPUT step is deleted.
The □ indicator for the step is also changed.
• To check the modified steps, press the **◀** or **▶** cursor button.
7. To exit, press the **M** button .
When finished, to change another macro program, press the OK cursor button to return to the menu, and then repeat the procedure for steps 3 to 6.

OVERWRITING STEPS IN MACRO PROGRAMS

This example shows how to change the macro programmed to M-01 from
DVD → PLAY → AMP → AUTO
to
DVD → PLAY → TV → INPUT.

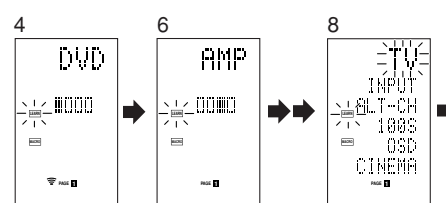


1. Hold down the **M** button for three seconds or more.
The menu is displayed.
2. Press the **D4** (MACRO) direct button .
The macro menu is displayed.
The **MACRO** indicator displays and **LEARN** blinks.
3. Press the **D1** (M-01) direct button .

4. Press the **D5** (EDIT) direct button .
The LCD displays DVD, and the step position is indicated by ■.
The programmed section is indicated by □.
5. Press the **▶** cursor button so that AMP is displayed.
6. Press the **TV** source button .
TV blinks for 0.5 seconds.
7. Press the **D1** (INPUT) direct button .
INPUT blinks for 0.5 seconds.
TV and INPUT are overwritten.
• To check the modified steps, press the **◀** or **▶** cursor button.
8. To exit, press the **M** button .
When finished, to change another macro program, press the OK cursor button to return to the menu, and then repeat the procedure for steps 3 to 8.

INSERTING STEPS IN MACRO PROGRAMS

This example shows how to change the macro programmed to M-01 from
DVD → PLAY → AMP → AUTO
to
DVD → PLAY → TV → INPUT → AMP → AUTO

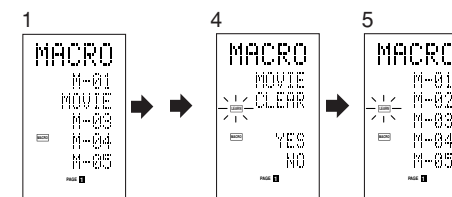


1. Hold down the **M** button for three seconds or more.
The menu is displayed.
2. Press the **D4** (MACRO) direct button .
The macro menu is displayed.
The **MACRO** indicator displays and **LEARN** blinks.
3. Press the **D1** (M-01) direct button .
4. Press the **D5** (EDIT) direct button .
The LCD displays DVD, and the step position is indicated by ■.
The programmed section is indicated by □.
6. Press the **▶** cursor button so that AMP is displayed.
7. Press the **MEMO** button .
Press the **TV** source button .
TV blinks for 0.5 seconds

8. Press the **D1** (INPUT) direct button .
INPUT blinks for 0.5 seconds.
TV and INPUT are inserted.
9. Press the **OK** cursor button .
• To check the modified steps, press the **◀** or **▶** cursor button.
10. To exit, press the **M** button .
When finished, to change another macro program, press the OK cursor button to return to the menu, and then repeat the procedure for steps 3 to 9.

CLEARING MACRO PROGRAMS

When clearing macros, the macros programmed to the button are erased. Modified macro names are also returned to the factory default settings. This example shows how to clear a macro with the name MOVIE programmed to M-02.



1. Press the **M** button for three second or more.
The macro menu is displayed.
2. Press the **D4** (MACRO) direct button .
The macro menu is displayed.
3. Press the **D2** (MOVIE) direct button while holding down the **CLEAR** button .
4. Press the **D4** (YES) direct button to clear the macro.
To cancel the clearing operation, press the NO (D5 button).
5. To exit, press the **M** button .
When finished, to change another macro program, press the OK cursor button to return to the menu, and then repeat the procedure for steps 2 to 4.

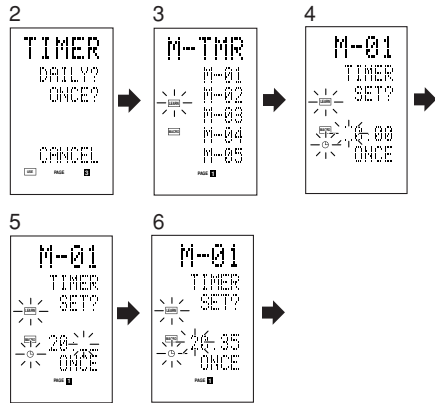
SETTING THE MACRO TIMER

Setting the macro timer enables the macro program to automatically turn the power for a device on or off or perform other operations.

In the settings, you can select to execute the macro timer everyday or only once.

Be sure to set the clock to the correct time before using the timer. The macro timer can only be set for one program a day.

This example shows how to use the timer only once at 20:35 to execute a macro programmed to M-01.



1. Hold down the **M** button for three seconds or more.
The menu is displayed.
2. Press the **>** button to display the third page TIMER menu.
3. Press the **D2** (ONCE?) direct button .
The M-TMR menu is displayed on the LCD.
 - To cancel timer operation, press CANCEL.
4. Press the **D1** (M-01) direct button .
The time which is set previously is displayed.
5. Press the **2** and **0** numeric button to set the hour indicator to 20.
6. Press the **3** and **5** numeric button to set the minute indicator to 35.
7. Press the **OK** cursor button .
This finalizes the time.
8. To exit, press the **M** button .
To cancel the macro timer, return to the TIMER menu and press the D5 (CANCEL) and then press D1 (M-01).

EXECUTING THE MACRO TIMER

The macro program starts when the time that was set is reached. The TIMER ⊖ indicator lights up whenever the macro timer is activated.

Note:

To execute the macro timer, place the remote control facing the infrared sensor of the device to be operated. If the remote control is not in a suitable position, it may not operate the device properly.

CLONE MODE

CREATING COPIES USING CLONE MODE

All of the codes programmed to the RC1400 remote control can be copied to another RC1400 using a few simple operations.

- The remote control can copy the entire contents or the contents for specific source buttons.
- When copying the entire contents, all programmed codes, modified names, programmed macros, and signal transmission intervals are copied.

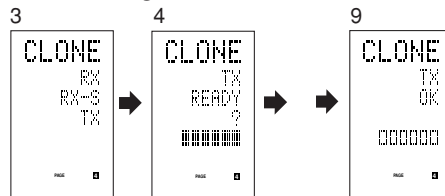
When copying the contents for source buttons, the programmed codes and modified names are copied.

Note:

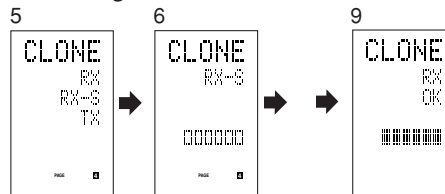
The clone function can only be used for copying when using the same model (RC1400) for both the transmitting and receiving remote control.

COPYING ENTIRE CONTENTS

<Transmitting remote control>



<Receiving remote control>

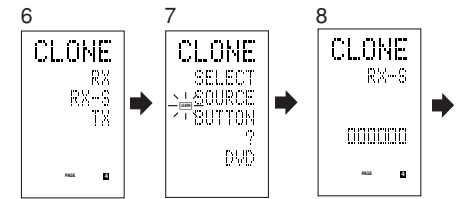


1. Place the receiver sensor of the receiving remote control (top) so that it is facing the transmitter of the transmitting remote control (top) at a distance of about 5 cm (2 inches).
2. Hold down the **M** button of the transmitting remote control for three seconds or more.
The menu is displayed.
3. Press the **>** button to display the fourth page CLONE menu.
4. Press the **D3** (TX) direct button .
The transmitting side is now ready.
5. Hold down the **M** button of the receiving remote control for three seconds or more.
The menu is displayed.
6. Press the **>** button to display the fourth page CLONE menu.
7. Press the **D1** (RX) direct button .
The receiving side is now ready.
8. Press the **OK** cursor button on the receiving remote control.
9. Press the **OK** cursor button on the transmitting remote control.
When copying is started, the bar indicators on both LCDs start to move from the left to the right.
 - When the copying operation is completed, TX OK is displayed on the LCD of the transmitting remote control, and RX OK is displayed on the LCD of the receiving remote control.
 - Do not touch either of the remote controls during the copying operation. Doing so could cause copying to fail.
 - If the copying fails in the middle of the copying process, RX ERROR is displayed on the receiving remote control. Check and perform steps 1 to 7 again.
 - Copying takes about three minutes to complete when the transmitting remote control has been programmed to 100% capacity.
10. Once copying is completed, press the **M** button on both remote controls.

COPYING BY SOURCE

The 12 sources can be copied on a source by source basis. You can select from up to 12 source types.

<Receiving remote control>



1. Place the receiver sensor of the receiving remote control (top) so that it is facing the transmitter of the transmitting remote control (top) at a distance of about 5 cm (2 inches).
2. Hold down the **M** button of the transmitting remote control for three seconds or more.
The menu is displayed.
3. Press the **>** button to display the fourth page CLONE menu.
4. Press the **D3** (TX) direct button .
The transmitting side is now ready.
5. Hold down the **M** button of the receiving remote control for three seconds or more.
The menu is displayed.
6. Press the **>** button to display the fourth page CLONE menu.
7. Press the **D2** (RX-S) direct button .
8. Press the source button to be copied.
The receiving side is now ready.
The name of the source which was pressed is displayed on the LCD.
 - Each time the source button is pressed, the name is displayed on the LCD.
9. Press the **OK** cursor button on the receiving remote control.
10. Press the **OK** cursor button on the transmitting remote control.
When copying is started, the bar indicators on both LCDs start to move from the left to the right.
 - When the copying operation is completed, TX OK is displayed on the LCD of the transmitting remote control, and RX OK is displayed on the LCD of the receiving remote control.
 - Do not touch either of the remote controls during the copying operation. Doing so could cause copying to fail.

- If the copying fails in the middle of the copying process, ERROR is displayed on the remote control.
- Check and perform steps 1 to 7 again.
- 11.** Once copying is completed, press the **M** button on both remote controls.

SETUP

SETTING THE LIGHTING TIME

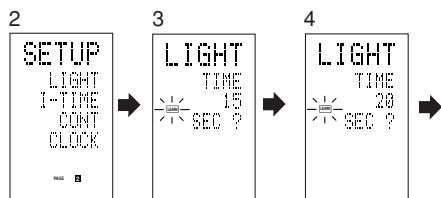
- The LCD lights up when the **LIGHT** buttons are pressed. The LCD remains lit while the pressed button is held down, and it goes off when the button is released.
- The LCD continues to light up if another button is pressed while it is lit or if pressed within two seconds after the light goes off.
- The lighting time can be set in one-second units from 0 to 60 seconds.

The **LIGHT** buttons have light-absorbing properties that enable them to store light. If the buttons are no longer illuminated in a dimly lit environment, bring the buttons near a fluorescent lamp or other light source for a sufficient amount of time. This should illuminate the buttons again.

- The **LIGHT** buttons consist of a **LIGHT1** and **LIGHT2** button, and they both perform the same operation.

The factory default lighting time is set to 15 seconds.

This example shows how to set the lighting time to 20 seconds.



- 1.** Hold down the **M** button for three seconds or more.
The menu is displayed.
- 2.** Press the **>** button to display the second page SETUP menu.
- 3.** Press the **D1** (**LIGHT**) direct button .
The **LIGHT** is displayed on the LCD

- 4.** Press the **▲** or **▼** cursor button to set the lighting time.
- 5.** Press the **OK** cursor button to enter the lighting time.
- 6.** Once the setting is finished, press the **M** button .

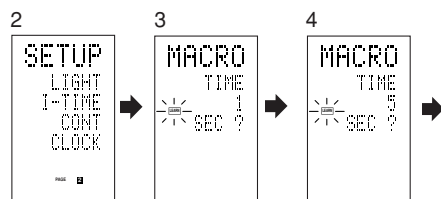
SETTING THE MACRO INTERVAL TIME

When a macro program is executed, control signals are transmitted in sequence. This transmission interval (interval time) can be set in 0.5-seconds units from 0.5 to 5 seconds.

If the interval time is set in this Setup mode, the interval times for all programmed macros are changed. If necessary, use **EDIT** (see page 37) in the macro program to change the individual transmission times.

The factory default setting for the transmission interval is 1 second.

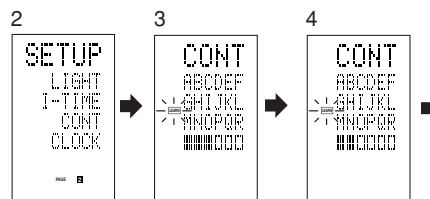
This example shows how to set the interval time to 5 seconds.



- 1.** Hold down the **M** button for three seconds or more.
The menu is displayed.
- 2.** Press the **>** button to display the second page SETUP menu.
- 3.** Press the **D2** (**I-TIME**) direct button .
- 4.** Press the **▲** or **▼** cursor button to set the interval time.
Holding down the cursor button fast-forwards the time indicator.
- 5.** Press the **OK** cursor button to enter the interval time.
- 6.** Once the setting is finished, press the **M** button .

ADJUSTING THE DISPLAY CONTRAST

The contrast of the LCD can be adjusted. Adjust for maximum visibility according to your viewing environment.



- 1.** Hold down the **M** button for three seconds or more.
The menu is displayed.
- 2.** Press the **>** button to display the second page SETUP menu.
- 3.** Press the **D3** (**CONT**) direct button .
- 4.** Press the **▲** or **▼** cursor button and set the display contrast for maximum visibility.
The adjustment has 10 levels.
The factory default setting for the contrast is the fifth level.
- 5.** Press the **OK** cursor button to enter the display contrast.
- 6.** Once the setting is finished, press the **M** button .

TROUBLESHOOTING

In case of trouble, check the following before calling for service:

1. Are the connections made properly ?
2. Are you operating the unit properly following the user's guide ?
3. Are the power amplifiers and speaker working properly ?

If the unit does not operate properly, check items shown in the following table.
If your trouble cannot be recovered with the remedy actions listed in the following table, malfunction of the internal circuitry is suspected; immediately unplug the power cable and contact your dealer, nearest Marantz authorized dealer or the Marantz Service Center in your country.

SYMPTOM	CAUSE	REMEDY
SR8400 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.	Cancel mute using the remote control unit.
	The input cable is not connected correctly.	See the connection diagram and connect the cables correctly.
	The master volume control is turned all the way down.	Adjust the master volume.
	The function selector position is wrong.	Select correct position.
No speaker output.	The headphones are connected to the headphone jack.	Disconnect the headphones. (Speakers will not output sound when headphones are connected.)
Incorrect Audio or Video for selected source.	Input cable connected incorrectly.	Connect the cable correctly by referring to the connection diagram.
Incorrect Audio from a channel.	Speaker cable connected incorrectly.	Connect the cable correctly by referring to the connection diagram.
No Audio output from the center channel speaker.	The center speaker cable connection is incomplete.	Connect the cable correctly.
	STEREO has been selected for Surround mode.	When STEREO is selected for Surround mode, no sound will be output from the center speaker. Set another Surround mode.
	Center = NONE has been selected in SETUP mode.	Make the correct setting.
No Audio output from the surround speakers.	The surround speaker cable connection is incomplete.	Connect the cable correctly.
	STEREO has been selected for Surround mode.	When STEREO has been selected for Surround mode, no sound will be output from the surround speaker. Set another Surround mode.
	Surround = NONE has been selected in SETUP mode.	Make the correct setting.
No Audio output from the surround back speakers.	The surround back speaker cable connection is incomplete.	Connect the cable correctly.
	Surround mode is not EX/ES mode.	Set surround mode EX/ES.
	Surround back = NONE has been selected in SPEAKERS SIZE SETUP	Make the correct setting.

SYMPTOM	CAUSE	REMEDY
Can not select EX/ES mode.	Surround center= NONE has been selected in SPEAKERS SIZE SETUP	Make the correct setting.
	Input signal is incompatible.	Use 5.1 channel source.
Can not select Pro Logic IIX mode.	Input signal is incompatible.	Use 2 channel Dolby Digital input signal, PCM input signal or analog input signal.
Can not select Neo:6 mode.	Input signal is incompatible.	Use 2 channel Dolby Digital input signal, PCM input signal or analog input signal.
Can not select CSII mode.	Input signal is incompatible.	Use 2 channel Dolby Digital input signal, PCM input signal or analog input signal.
No output to Sub Woofer Out.	Sub-woofer = NONE has been selected in SETUP mode.	Select Sub-woofer = YES.
Noise is produced during DTS-encoded CD or laser disc play.	Analog has been selected for input.	Be sure to perform digital connection, select digital input, then play.
A specific channel does not produce output.	Nothing recorded on source.	Check the encoded channel on the source side.
FM or AM reception fails.	Antenna connection is incomplete.	Correctly connect the indoor FM and AM antennas to FM and AM antenna outlets.
Noise is heard during AM reception.	Reception is affected by other electrical fields.	Try changing location where the AM indoor antenna is set up.
Noise is heard during FM reception.	The radio waves from the broadcasting station are weak.	Install an FM outdoor antenna.
Cannot get programmed station when the PRESET button is pressed.	Preset data has been erased.	Disconnecting power plug for long periods of time will erase preset data. If that happens, input the preset data again.
Control with the remote control unit fails.	Batteries are consumed.	Replace all the batteries with new ones.
	Remote controller's function-key setting is wrong.	Select different position from which equipment will be controlled.
	The distance between this SR8400 and the remote commander is too far.	Move closer to this SR8400.
	Something is blocking SR8400 and the remote commander.	Remove offending object.

GENERAL MALFUNCTION

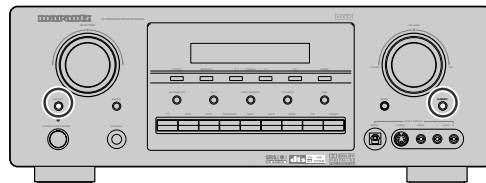
If the equipment malfunctions, this may be because an electrostatic discharge or AC line interference has corrupted the information in the equipment memory circuits. Therefore:

- disconnect the plug from the AC line supply
- after waiting at least three minutes, reconnect the plug to the AC line supply
- re-attempt to operate the equipment

Memory backup

- In case a power outage occurs or the power cord is accidentally unplugged, the SR8400 is equipped with a backup function to prevent memory data such as the preset memory from being erased.

HOW TO RESET THE UNIT



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

The SR8400 is turned on, press and hold the **SELECT** and **S-DIRECT** buttons simultaneously for 3 seconds or more.

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

TECHNICAL SPECIFICATIONS

FM TUNER SECTION

Frequency Range 87.5 - 108.0 MHz
 Usable Sensitivity IHF 1.8 μ V/16.4 dBf
 Signal to Noise Ratio Mono/Stereo 75/70 dB
 Distortion Mono/Stereo 0.2/0.3 %
 Stereo Separation 1 kHz 45 dB
 Alternate Channel Selectivity \pm 300 kHz 60 dB
 Image Rejection 98 MHz 70 dB
 Tuner Output Level 1 kHz, \pm 75 kHz Dev 800 mV

AM TUNER SECTION

Frequency Range 520 - 1710 kHz
 Signal to Noise Ratio 50 dB
 Usable Sensitivity Loop 400 μ V
 Distortion 400Hz, 30 % Mod. 0.5 %
 Selectivity \pm 20 kHz 70 dB

AUDIO SECTION

Power Output (20 Hz - 20 kHz/THD=0.08%)
 Front L&R 8 ohms 110 W / Ch
 Center 8 ohms 110 W / Ch
 Surround L&R 8 ohms 110 W / Ch
 Surround Back L&R 8 ohms 110 W / Ch

Front L&R 6 ohms 135 W / Ch
 Center 6 ohms 135 W / Ch
 Surround L&R 6 ohms 135 W / Ch
 Surround Back L&R 6 ohms 135 W / Ch

Input Sensitivity/Impedance 168 mV/ 47 Kohms
 Signal to Noise Ratio(Analog Input / Source Direct) ... 105 dB
 Frequency Response
 (Analog Input / Source Direct)
 8 Hz - 100 kHz (\pm 3 dB)
 (Digital Input / 96 kHz PCM)
 8 Hz - 45 kHz (\pm 3 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)
 Video Frequency (Component) ... 5 Hz to 80 MHz (-1 dB)
 S/N 60 dB

GENERAL

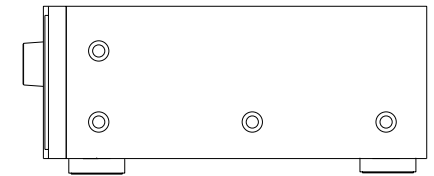
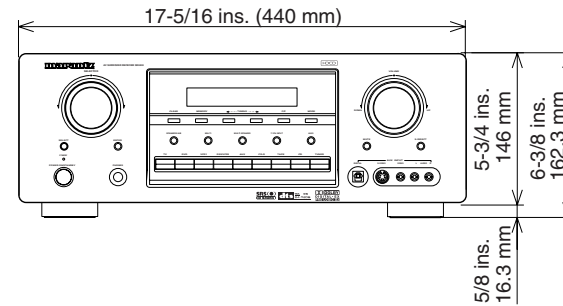
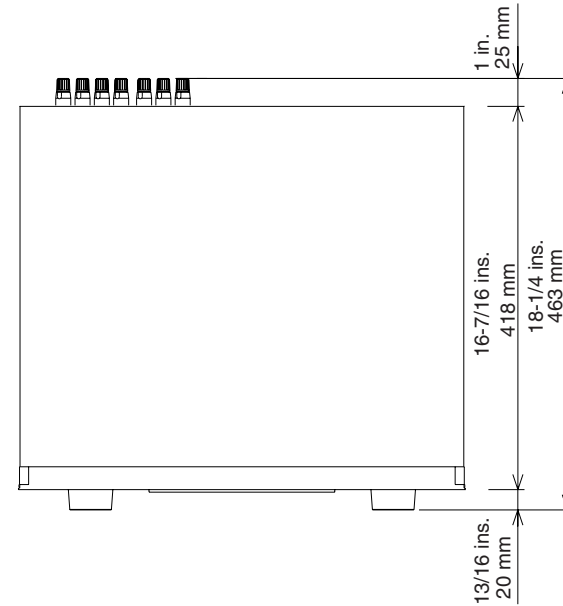
Power Requirement AC 120 V 60 Hz
 Power Consumption 648 W
 Weight 32.0 lbs (14.5 Kg)

ACCESSORIES

Remote Control Unit RC1400 1
 AAA-size batteries 3
 FM Feeder Antenna 1
 FM Antenna Converter 1
 AM Loop Antenna 1

Specifications subject to change without prior notice.

DIMENSIONS



SETUP CODES

AMPLIFIER

Source button name : AMP

Brand name	Setup code
Amstrad	0105
Arcam	0296
Audiolab	0296
Carver	0296
GE	0105
Genexxa	0422
Grundig	0296
Harman/Kardon	0919
JVC	0358
Left Coast	0919
Linn	0296
Magnavox	0296
Marantz	0919, 0296
Micromega	0296
Myryad	0296
Optimus	0422
Panasonic	0335
Philips	0919, 0296
Pioneer	0040
Polk Audio	0919, 0296
Realistic	0422
Revox	0296
Sony	0247
Soundesign	0105
Technics	0335
Thorens	0296
Victor	0358
Wards	0105, 0040
Yamaha	0381

RECEIVER/TUNER

Source button name : AMP, TUNER

Brand name	Setup code
ADC	0558
Aiwa	1432, 0185, 1116, 1415, 1668
Alco	1417
Anam	1636
Apex Digital	1284
Audiolab	1216
Audiotronic	1216
Audiovox	1417
Bose	1256
Cambridge	1397
Soundworks	
Capetronic	0558
Carver	1216, 1116
Centrex	1284
Denon	1387
Ferguson	0558
Fine Arts	1216
Grundig	1216

RECEIVER/TUNER

Source button name : AMP, TUNER

Brand name	Setup code
Harman/ Kardon	0137, 1331
Integra	0162, 1325
JBL	0137, 1333
JVC	0101, 0558, 1401, 1522
KLH	1417, 1439
Kenwood	1340, 1054
MCS	0066
Magnavox	1216, 1296, 0558, 1116
Marantz	1216, 0066, 1116, 1316
Micromega	1216
Musicmagic	1116
Myryad	1216
NAD	0347
Norcent	1416
Onkyo	0162, 0869, 1325
Optimus	1050, 0558
Panasonic	1545, 0066, 1315, 1790
Philips	1216, 1296, 1116, 1293, 1295, 1310, 1316
Pioneer	1050, 0041, 0558, 1411
Polk Audio	1316
Proscan	1281
Quasar	0066
RCA	1050, 1636, 1281, 0558, 1417
Saba	0558
Sansui	1116
Schneider	0558
Sony	1085, 0185, 1185, 1685, 1785
Stereophonics	1050
Sunfire	1340
Teac	1417
Technics	1335, 1545, 0066, 1336
Telefunken	0558
Thomson	1281
Thorens	1216
Uher	0558
Venturer	1417
Victor	0101
Wards	0185, 0041
Yamaha	0203, 1203, 1358

CABLE

Source button name : AUX1

Brand name	Setup code
ABC	0030, 0035
Americast	0926
Bell South	0926
Birmingham Cable	0303
Communications	
British Telecom	0030
Cable & Wireless	1095
Daeryung	0904, 1904, 0504, 0035
Director	0503
Filmnet	0470
General	0503, 0837, 0303,

CABLE

Source button name : AUX1

Brand name	Setup code
GoldStar	0171
Hamlin	0036, 0300
Instrument	0030
Jerrold	0503, 0837, 0303, 0030
LG	0171
MNet	0470
Memorex	0027
Motorola	0503, 0837, 0303, 1133
NTL	1095
Noos	0844
Ono	1095
PVP Stereo	0030
Visual Matrix	
Pace	0264, 1087, 1095
Panasonic	0027, 0035, 0134
Paragon	0027
Philips	0332, 0344
Pioneer	0904, 1904, 0171, 0560
Pulsar	0027
Quasar	0027
Regal	0306, 0300
Runco	0027
Sagem	0844
Samsung	0027, 0171
Scientific Atlanta	0904, 1904, 0504, 0035
Sony	1033
Starcom	0030
Supercable	0303
TS	0030
Tele+1	0470
Telewest	1095
Torx	0030
Toshiba	0027
Trans PX	0303
United Cable	0030
Zenith	0027, 0552, 0926

SATELLITE

Source button name : DSS

Brand name	Setup code
@sat	1327
ABsat	0150
Alba	0482
AlphaStar	0799
Amstrad	0874
Aston	0169, 1156
Astro	0200
Atsat	1327
Avalon	0423
Blaupunkt	0200
British Sky	0874, 1202
Broadcasting	
Canal Digital	0880
Canal Satellite	0880

SATELLITE

Source button name : DSS

Brand name	Setup code
Canal+	0880
Chaparral	0243
Citycom	1203
Connexions	0423
Crossdigital	1136
Cyrus	0227
D-box	0750, 1154
DMT	1102
DNT	0227, 0423
Daeryung	0423
Daewoo	1323
Digenius	0326
DirecTV	0419, 0593, 0666, 1169, 0274, 0776, 1776, 0751, 0846, 1883, 1103, 1136
Dish Network System	1032, 0802
DishPro	1032, 0802
Distratel	0111
Dream Multimedia	1264
Echostar	1032, 0802, 0194, 0423, 0637, 0880, 0898, 1113
Engel	1044
Expressvu	0802
FTE	0890
Finlux	0482
Fracarro	0898
Fuba	0423
GE	0593
GOI	0802
Galaxis	0890, 1138
General Instrument	0896
Gold Box	0880
Grundig	0200, 0874
HTS	0802
Hirschmann	0200, 0423
Hitachi	0846, 0482
Hughes	1169, 0776, 1776
Network Systems	
Humax	0890, 1203
InVideo	0898
JVC	0802
Kathrein	0150, 0200, 0227, 0276, 0685, 1248
Kreiselmeier	0200
Labgear	1323
Logix	1044
Lorenzen	0326
Magnavox	0751, 0749
Manhattan	0482, 1044, 1110
Marantz	0227
MediaSat	0880
Memorex	0751
Metronic	0111
Mitsubishi	0776
Motorola	0896
Myryad	0227
Next Level	0896

SATELLITE**Source button name : DSS**

Brand name	Setup code
Nokia	0482, 0750, 0778, 1154, 1250, 1750
OctalTV	1032
Orbitech	1127
Pace	0482, 0874, 1202, 1350
Panasonic	0274, 0728, 0874, 1347
Panda	0482
Paysat	0751
Philips	1169, 0776, 1776, 0751, 1103, 0749, 0160, 0227, 0482, 0880
Pioneer	0880
Promax	0482
Proscan	0419, 0593
RCA	0419, 0593, 0882, 0170
RFT	0227
RadioShack	0896
Radiola	0227
Radix	0423
SKY	0883, 0874, 1202
SM Electronic	1227
Sabre	0482
Sagem	0847, 1141, 1280
Samsung	1303, 1136, 1044, 1319
Sat Control	1327
Satstation	1110
Schwaiger	1138
Seemann	0423
Siemens	0200
Sony	0666, 1666, 0874
Star Choice	0896
Strong	1327
TPS	0847, 1280
Tantec	0482
TechniSat	1126, 1127
Telestar	1127
Thomson	0482, 0880, 1073, 1318
Topfield	1233
Toshiba	0776, 1776, 0817
UltimateTV	0419, 0666
Uniden	0751, 0749
Universum	0200
Ventana	0227
Wisi	0200, 0423, 0482
XSat	0150
Zehnder	1102
Zenith	0883, 1883

TAPE DECK**Source button name : TAPE**

Brand name	Setup code
Aiwa	0056
Carver	0056
Grundig	0056
Harman/Kardon	0056
Magnavox	0056
Marantz	0056
Myryad	0056
Optimus	0054
Philips	0056
Pioneer	0054
Polk Audio	0056
RCA	0054
Revox	0056
Sansui	0056
Sony	0270
Thorens	0056
Wards	0054

LASER DISK**Source button name : AUX2**

Brand name	Setup code
Carver	0091
Denon	0086
Marantz	0091
Mitsubishi	0086
NAD	0086
Nagsmi	0086
Optimus	0086
Philips	0091
Pioneer	0086
Salora	0091
Sony	0228
Telefunken	0086

CD/CD-R PLAYER**Source button name : CD, CDR, MD**

Brand name	Setup code
Aiwa	0184
Arcam	0184
Audio Research	0184
AudioTon	0184
Audiolab	0184
Audiomeca	0184
Cairn	0184
California Audio Labs	0056
Carver	0184, 0206
Cyrus	0184
DKK	0027
DMX Electronics	0184
Denon	0900
Dynamic Bass	0206
Emerson	0332
Fisher	0206

CD/CD-R PLAYER**Source button name : CD, CDR, MD**

Brand name	Setup code
Genexxa	0059, 0332
Goodmans	0332
Grundig	0184
Harman/ Kardon	0184, 0200
Hitachi	0059
JVC	0099
Kenwood	0708, 0653, 0055, 0064
Krell	0184
LXI	0332
Linn	0184
MCS	0056
Magnavox	0184, 0332
Marantz	0653, 0056, 0184
Matsui	0184
Memorex	0332
Meridian	0184
Micromega	0184
Miro	0027
Mission	0184
Myryad	0184
NAD	0027
NSM	0184
Naim	0184
Onkyo	0895
Optimus	0027, 0059, 0064, 0206, 0332
Panasonic	0056
Philips	0653, 0184
Pioneer	0059, 0332
Polk Audio	0184
Proton	0184
QED	0184
Quad	0184
Quasar	0056
RCA	0059, 0206, 0332
Realistic	0206
Revox	0184
Rotel	0184
SAE	0184
Sansui	0184, 0332
Sanyo	0206
Scott	0332
Sears	0332
Sharp	0888, 0064
Simaudio	0184
Sonic Frontiers	0184
Sony	0517, 0027
Symphonic	0332
TAG McLaren	0184
Tandy	0059
Technics	0056
Thorens	0184
Thule	0184
Universum	0184
Victor	0099
Wards	0184

TV**Source button name : TV**

Brand name	Setup code
MARANTZ	0001
TV1 (TV, VDP)	
MARANTZ	0002
TV2 (Plasma)	
AGB	0543
AOC	0478, 0120, 0207, 0087, 0057, 0205, 0036, 0119, 0135
ASA	0131
AWA	0036
Acura	0036
Addison	0119, 0135, 0680
Admiral	0120, 0490, 0190
Advent	0788
Aiko	0119
Akai	0839, 0729, 0057, 0036, 0235, 0388, 0543
Akura	0291
Alba	0036, 0064, 0398, 0695
America Action	0207
Ampro	0778
Amstrad	0198, 0036, 0064, 0398, 0439, 0460, 0543
Anam	0277, 0207, 0036
Anam National	0277, 0677
Anitech	0036
Apex Digital	0775, 0792, 0794
Audiosonic	0064, 0136
Audiovox	0478, 0207, 0119, 0650
Bang & Olufsen	0592
Basic Line	0036
Baur	0064, 0388, 0539
Baysonic	0207
Beaumarck	0205
Beko	0397, 0513, 0741, 0742
Bell & Howell	0181
Beon	0064
Blaupunkt	0222
Blue Sky	0695, 1064
Bondstec	0274
Bradford	0207
Brandt	0136, 0362
Broksonic	0263, 0490
Bush	0036, 0064, 0398, 0401, 0695, 1064
CCE	0064
CGE	0274
CTC	0274
CXC	0207
Candle	0057
Carnivale	0057
Carver	0081, 0197
Cascade	0036
Cathay	0064
Celebrity	0027
Celera	0792
Centurion	0064
Changhong	0792
Ching Tai	0036, 0119

TV

Source button name : TV

Brand name	Setup code
Chun Yun	0027, 0207, 0036, 0119
Chung Hsin	0207, 0080, 0135
Cimline	0036
Cineral	0478, 0119
Citizen	0087, 0057, 0119
Clarion	0207
Clarivox	0064
Clatronic	0274, 0397
Condor	0347, 0397
Conrac	0835
Contec	0207, 0036
Craig	0207
Crosley	0081
Crown	0207, 0036, 0064, 0397, 0445
Curtis Mathes	0074, 0081, 0181, 0478, 0120, 0087, 0729, 0057, 0172, 0193, 1174, 1374
Daewoo	0181, 0478, 0207, 0057, 0205, 1688, 0036, 0064, 0119, 0135, 0197, 0401, 0650, 0661
Dansai	0064
Dayton	0036
De Graaf	0235, 0575
Decca	0064, 0543
Denon	0172
Digatron	0064
Dixi	0036, 0064
Dumont	0044
Dwin	0747, 0801
ECE	0064
Elbe	0286
Electroband	0027
Elin	0064, 0575
Elite	0347
Elta	0036
Emerson	0181, 0263, 0490, 0207, 0205, 0388, 0650
Envision	0057, 0840
Epson	0860
Erres	0064
Ether	0057, 0036
Etron	0036
Europhon	0543
Ferguson	0064, 0100, 0136, 0265, 0314, 0362, 0587
Fidelity	0388
Finlandia	0235, 0373
Finlux	0064, 0131, 0132, 0373, 0543
Firstar	0263, 0036
Firstline	0036, 0274, 0695
Fisher	0181, 0131, 0235, 0397
Flint	0482
Formenti	0064, 0347
Fortress	0120
Frontech	0190, 0274, 0291
Fujitsu	0710, 0836
Funai	0207, 0198, 0291
Futuretech	0207

TV

Source button name : TV

Brand name	Setup code
GE	0074, 0078, 0478, 0207, 0057, 0205, 1481, 0119, 0587, 1174, 1374
GEC	0064, 0543
Gateway	1782, 1783
Geloso	0036
Genexxa	0190
Gibraltar	0044, 0057
GoldStar	0181, 0057, 0205, 0064, 0136, 0404
Goodmans	0064, 0398, 0401, 0661
Gorenje	0397
Gradiente	0080, 0197
Graetz	0190, 0388
Granada	0064, 0235, 0366, 0543
Grandin	0637
Grundig	0064, 0222, 0514, 0583, 0614
Grunpy	0207
HCM	0036, 0439
Hallmark	0205
Hankook	0207, 0057, 0205
Hanseatic	0064, 0347, 0388, 0455, 0583
Hantarex	0543
Harman/Kardon	0081
Harvard	0207
Havermy	0120
Hello Kitty	0478
Hinari	0036, 0064
Hisawa	0482
Hitachi	0057, 0205, 1172, 0172, 1283, 0036, 0119, 0132, 0136, 0190, 0252, 0383, 0508, 0575, 0605
Hua Tun	0036
Huanyu	0401
Hypson	0064, 0291
ICE	0291, 0398
ITS	0398
ITT	0190, 0388, 0575
Imperial	0274, 0397, 0445
Indiana	0064
Infinity	0081
Ingelen	0190
Inno Hit	0543
Innova	0064
Inteq	0044
Interfunk	0064, 0190, 0274, 0388, 0539
Intervision	0064, 0291, 0404
JBL	0081
JCB	0027
JVC	0490, 0080, 0398, 0680, 0710
Jean	0183, 0078, 0263, 0036, 0119
Jensen	0788
KEC	0207
KTV	0207, 0057
Kaisui	0036
Kapsch	0190
Karcher	0637

TV

Source button name : TV

Brand name	Setup code
Kathrein	0583
Kendo	0064
Kenwood	0057
Kneissel	0286, 0462
Kolin	0207, 0080, 0135
Korpel	0064
Koyoda	0036
L&S Electronic	0835
LG	0087, 0057, 0205, 0064, 0135, 0741
LXI	0074, 0081, 0181, 0183, 0205
Leyco	0064, 0291
Liesenk & Tter	0064
Loewe	0539
Luxor	0383, 0388
M Electronic	0036, 0064, 0131, 0132, 0136, 0190, 0314, 0373, 0401, 0507
MGA	0177, 0057, 0205
MTC	0087, 0057, 0539
Magnadyne	0274, 0543
Magnafon	0543
Magnavox	0081, 0057, 1481, 1281
Manesth	0291, 0347
Mark	0064
Matsui	0036, 0064, 0235, 0398, 0514, 0543
Matsushita	0277, 0677
Mediator	0064
Medion	0695, 0835, 1064
Megatron	0205, 0172
Memorex	0181, 0277, 0490, 0177, 0205, 0036, 1064
Metz	0474
Micromaxx	0835
Microstar	0835
Midland	0074, 0044, 0078
Minerva	0514
Minoka	0439
Mitsubishi	0181, 0277, 0120, 0263, 0207, 0177, 1277, 0057, 0205, 0135, 0539, 0863
Mivar	0318, 0319, 0543, 0636
Motorola	0120
Multitech	0207, 0036
Myryad	0583
NAD	0183, 0205, 0388, 0893
NEC	0181, 0183, 0078, 0057, 0205, 0036, 0197, 0482, 0524, 1731
NEI	0064
NTC	0119
Neckermann	0064, 0583
Netsat	0064
Newave	0120, 0205, 0036, 0119
Nikkai	0064, 0291
Nikko	0057, 0205, 0119
Nokia	0388, 0500, 0507, 0575, 0658
Norcent	0775, 0851
Normende	0136, 0314, 0587
Oceanic	0190, 0388

TV

Source button name : TV

Brand name	Setup code
Onwa	0207, 0460
Optimus	0181, 0277, 0193, 0677
Optonica	0120
Orion	0263, 0490, 0064, 0347, 0543
Osaki	0291, 0439
Otto Versand	0064, 0347, 0539, 0583
Palladium	0397, 0445
Panama	0291
Panasonic	0081, 0277, 0078, 0064, 0190, 0677, 1437
Pathe Cinema	0265, 0347
Pausa	0036
Penney	0074, 0183, 0078, 0087, 0057, 0205, 1374
Perdio	0347
Philco	0081, 0490, 0207, 0057, 0205, 0172, 1688, 0064, 0274
Philips	0081, 0027, 0078, 0057, 0205, 1481, 0064, 0119, 0135, 0401, 0583, 0717
Phonola	0064
Pilot	0057
Pioneer	0193, 0136, 0190, 0314, 0706, 0787, 0893
Portland	0119
Prandoni-Prince	0543
Prima	0788
Prism	0078
Profex	0036, 0388
Proscan	0074
Protech	0036, 0064, 0274, 0291, 0445, 0695
Proton	0057, 0205, 0036
Pulsar	0044
Quasar	0277, 0078, 0677
Quelle	0064, 0131, 0388, 0539
R-Line	0064
RCA	0074, 0027, 0057, 0205, 1474, 1481, 0117, 0119, 0706, 1074, 1174, 1274, 1374, 1574
RFT	0455
RadioShack	0074, 0181, 0207, 0057, 0205
Radiola	0064
Radiomarelli	0543
Realistic	0181, 0207, 0057, 0205
Rediffusion	0388
Reoc	0741
Revox	0064
Rex	0190, 0286, 0291
Roadstar	0036, 0291, 0445
Runco	0044, 0057, 0524, 0630
SBR	0064
SEG	0291, 0695
SEI	0543
SKY	0064
SSS	0207
Saba	0136, 0190, 0314, 0362
Saccs	0265
Sagem	0637
Saisho	0036, 0291, 0543
Salora	0190, 0383, 0388, 0575

TV

Source button name : TV

Brand name	Setup code
Sambers	0543
Sampo	0181, 0120, 0057, 0205, 0198, 0036, 0119, 0677, 1782
Samsung	0181, 0087, 0839, 0729, 0057, 0205, 0036, 0064, 0117, 0119, 0291, 0397, 0583, 0614, 0645, 0793, 0841
Sansei	0478
Sansui	0490
Sanyo	0181, 0207, 0131, 0235, 0366, 0826
Schaub Lorenz	0388
Schneider	0064, 0274, 0398, 0695
Scotch	0205
Scott	0263, 0207, 0205
Sears	0074, 0081, 0181, 0183, 0205, 0198
Seleco	0190, 0286
Semivox	0207
Semp	0183
Sharp	0120, 0057, 0677
Shen Ying	0036, 0119
Sheng Chia	0120, 0263, 0036
Siarem	0543
Siemens	0064, 0222
Sinudyne	0543
Skantic	0383
Skygiant	0207
Skyworth	0064
Solavox	0190
Sonitron	0235
Sonoko	0036, 0064
Sonolor	0190, 0235
Sontec	0064
Sony	1127, 0027, 0677, 0861, 1532, 1678
Soundesign	0207, 0205
Soundwave	0064, 0445
Sowa	0183, 0078, 0087, 0205, 0119
Squareview	0198
Standard	0036
Starlite	0207
Stern	0190, 0286
Supreme	0027
Sylvania	0081, 0057, 0198
Symphonic	0207, 0198
Synco	0027, 0478, 0120, 0087, 0205, 0119
Sysline	0064
T + A	0474
TCM	0835
TMK	0205
TNCi	0044
TVS	0490
Tacico	0205, 0036, 0119
Tai Yi	0036
Tandy	0120, 0190
Tashiko	0119, 0677
Tatung	0081, 0181, 0183, 0078, 0087, 0036, 0064, 0543

TV

Source button name : TV

Brand name	Setup code
Teac	0036, 0064, 0291, 0439, 0445, 0482, 0695, 1064
Tec	0274
Technema	0347
Technics	0277, 0078, 0677
Techwood	0078
Teco	0078, 0120, 0205, 0036, 0119, 0291, 0680
Teknika	0081, 0207, 0177, 0087, 0119
Telefunken	0729, 0136, 0289, 0362, 0652
Telemeister	0347
Teletech	0036
Tensai	0347
Tera	0057
Thomson	1474, 0136, 0314, 0587, 0652
Thorn	0064, 0131, 0388, 0539
Toshiba	0181, 0183, 0087, 1283, 0535, 0645, 0677, 0859, 1383, 1683, 1731
Triumph	0543
Tuntex	0057, 0036, 0119
Uher	0347
Universum	0064, 0131, 0132, 0291, 0373, 0397, 0519
Vector Research	0057
Vestel	0064
Victor	0277, 0080, 0677, 0680
Videosat	0274
Vidikron	0081
Vidtech	0205
ViewSonic	1782
Vision	0347
Voxson	0190
Waltham	0383
Wards	0081, 0057, 0205, 0893
Watson	0064, 0347
Waycon	0183
White Westinghouse	0490, 0064, 0347, 0650
Yamaha	0057, 0796, 0860
Yapshe	0277
Yoko	0064, 0291
Zenith	0044, 0490, 0205, 0119

VCR

Source button name : VCR

Brand name	Setup code
ASA	0064, 0108
Admiral	0075
Adventura	0027
Aiko	0305
Aiwa	0064, 0027, 0334, 0375, 0379
Akai	0068, 0342
Akiba	0099
Alba	0099, 0305, 0342, 0379
America Action	0305
American High	0062
Amstrad	0027

VCR

Source button name : VCR

Brand name	Setup code
Anam	0064, 0267, 0305, 0253, 0507
Anam National	0253, 1589
Anitech	0099
Asha	0267
Asuka	0064
Audiovox	0064, 0305
Baird	0027, 0131, 0068
Basic Line	0099, 0305
Beaumarck	0267
Bell & Howell	0131
Blaupunkt	0253
Brandt	0347
Brandt Electronic	0068
Broksonic	0211, 0375, 1506
Bush	0099, 0305, 0379
CCE	0099, 0305
CGE	0027
Calix	0064
Canon	0062
Carver	0108
Cimline	0099
Cineral	0305
Citizen	0064, 0305, 1305
Colt	0099
Combitech	0379
Craig	0064, 0074, 0267, 0099
Crown	0099, 0305
Curtis Mathes	0087, 0062, 0068, 1062
Cybernex	0267
Cyrus	0108
Daewoo	0072, 0131, 0305, 0669, 1305
Dansai	0099
De Graaf	0069
Decca	0108, 0027
Denon	0069
Dual	0068
Dumont	0108, 0027, 0131
Dynatech	0027
ESC	0267, 0305
Elcatech	0099
Electrohome	0064
Electrophonic	0064
Emerex	0059
Emerson	0062, 0064, 0211, 0267, 0072, 0027, 0070, 0305, 1305, 1506
Ferguson	0068, 0347
Fidelity	0027
Finlandia	0108, 0131
Finlux	0108, 0027, 0069, 0131
Firstline	0064, 0072, 0070, 0099
Fisher	0074, 0131
Fuji	0062, 0060
Fujitsu	0072, 0027
Funai	0027
GE	0087, 0062, 0267, 0834, 1062, 1087

VCR

Source button name : VCR

Brand name	Setup code
GEC	0108
Garrard	0027
General	0072
Go Video	0459
GoldHand	0099
GoldStar	0064, 0252, 0507, 1264
Goodmans	0064, 0027, 0099, 0305
Gradiente	0027
Graetz	0267, 0131, 0068
Granada	0108, 0131
Grandin	0064, 0027, 0099
Grundig	0108, 0099, 0253, 0374
HCM	0099
HI-Q	0074
Hanseatic	0064
Harley Davidson	0027
Harman/Kardon	0108
Harwood	0099
Hinari	0267, 0099, 0379
Hitachi	0064, 0267, 0027, 0069, 0068
Hughes	0069
Network Systems	
Hypson	0099
ITT	0267, 0131, 0068
ITV	0064, 0305
Imperial	0027
Interfunk	0108
JVC	0072, 0094, 0068
Jensen	0068
KEC	0064, 0305
KLH	0099
Kaisui	0099
Kenwood	0094, 0068
Kodak	0062, 0064
Kolin	0070, 0068
Korpel	0099
LG	0064, 0072, 0069, 0507
LXI	0064
Lenco	0305
Leyco	0099
Lloyd's	0027
Loewe	0064, 0108, 1589
Logik	0267, 0099
Luxor	0075, 0131, 0070
M Electronic	0027
MEI	0062
MGA	0267, 0070
MGN Technology	0267
MTC	0267, 0027
Magnasonic	1305
Magnavox	0062, 0066, 0108, 0027, 1808
Magnin	0267
Manesth	0072, 0099
Marantz	0062, 0108
Marta	0064

VCR**Source button name : VCR**

Brand name	Setup code
Matsui	0375, 0379
Matsushita	0062
Medion	0375
Memorex	0062, 0064, 0075, 0066, 0074, 0267, 0027, 0131, 0334, 0375, 1264
Memphis	0099
Metz	0064, 0374, 1589
Minolta	0069
Mitsubishi	0108, 0094, 0070, 0068, 0834
Motorola	0062, 0075
Multitech	0027, 0099
Murphy	0027
Myryad	0108
NAD	0131
NEC	0062, 0064, 0075, 0131, 0094, 0068
National	0253
Neckermann	0108
Nesco	0099
Newwave	0064
Nikko	0064
Noblex	0267
Nokia	0267, 0131, 0068
Nordmende	0068, 0347
Oceanic	0027, 0068
Okano	0342, 0375
Olympus	0062, 0253
Optimus	0064, 0075, 0131, 0459
Orion	0211, 0375, 0379, 1506
Osaki	0064, 0027, 0099
Otto Versand	0108
Palladium	0064, 0068, 0099
Panasonic	0062, 0252, 0253, 0643, 1062, 1589
Pathe Marconi	0068
Penney	0062, 0064, 0267, 0069, 1062, 1264
Pentax	0069
Perdio	0027
Philco	0062
Philips	0062, 0108, 0645, 1108, 1208
Phonola	0108
Pilot	0064
Pioneer	0108, 0069, 0094
Polk Audio	0108
Profitronic	0267
Proline	0027
Proscan	0087, 1087
Protec	0099
Pulsar	0066
Pye	0108
Quasar	0062, 1062
Quelle	0108
RCA	0087, 0062, 0267, 0069, 0834, 1062, 1087
RadioShack	0027
Radiola	0108
Radix	0064
Randex	0064

VCR**Source button name : VCR**

Brand name	Setup code
Realistic	0062, 0064, 0075, 0074, 0027, 0131
Reoc	0375
ReplayTV	0641, 0643
Rex	0068
Roadstar	0064, 0267, 0099, 0305
Runco	0066
SBR	0108
SEG	0267
SEI	0108
STS	0069
Saba	0068, 0347
Salora	0070
Sampo	0064, 0075
Samsung	0267, 0072, 0459
Sanky	0075, 0066
Sansui	0027, 0094, 0068, 1506
Sanyo	0074, 0267, 0131
Saville	0379
Schaub Lorenz	0027, 0131, 0068
Schneider	0108, 0027, 0099
Scott	0211, 0072, 0070
Sears	0062, 0064, 0074, 0027, 0069, 0131, 1264
Seleco	0068
Semp	0072
Sharp	0075, 0834
Shintom	0131, 0099
Shogun	0267
Siemens	0064, 0108, 0131
Silva	0064
Singer	0072, 0099
Sinudyne	0108
Sonic Blue	0641, 0643
Sontec	0064
Sony	0062, 0059, 0060, 0027, 0663, 1259
Sunkai	0375
Sunstar	0027
Suntronic	0027
Sylvania	0062, 0108, 0027, 0070, 1808
Symphonic	0027
TMK	0267
Tandy	0027, 0131
Tashiko	0064, 0027
Diamond	0795
Digitrex	0699
Emerson	0618
Tatung	0108, 0072, 0027, 0094, 0068
Teac	0027, 0068, 0305, 0334, 0669
Technics	0062, 0253
Teco	0062, 0064, 0075, 0068
Teknika	0062, 0064, 0027
Teleavia	0068
Telefunken	0068, 0347
Tenosal	0099
Tensai	0027
Thomas	0027

VCR**Source button name : VCR**

Brand name	Setup code
Thomson	0087, 0094, 0068, 0347
Thorn	0131, 0068
Tivo	0645, 0663
Toshiba	0108, 0072, 0094, 0070, 0068, 0872
Totevision	0064, 0267
Uher	0267
Unitech	0267
Universum	0064, 0108, 0267, 0027
Vector	0072
Victor	0094, 0068
Video Concepts	0072
Videomagic	0064
Videosonic	0267
Villain	0027
Wards	0087, 0062, 0075, 0074, 0108, 0267, 0027, 0069, 0099
White Westinghouse	0099
XR-1000	0062, 0027, 0099
Yamaha	0068
Yamishi	0099
Yokan	0099
Yoko	0267
Zenith	0066, 0060, 0027, 1506

DVD**Source button name : DVD**

Brand name	Setup code
MARANTZ DVD1	0001
MARANTZ DVD2	0002
Acoustic Solutions	0757
Alba	0744
Amstrad	0740
Apex Digital	0699, 0744, 0782, 0821, 0823, 0857, 1127
Blaupunkt	0744
Blue Parade	0598
Bush	0740
Centrex	0699
Clatronic	0815
CyberHome	0741
DVD2000	0548
Daewoo	0811, 0797
Dansai	0797
Decca	0797
Denon	0517
Enterprise	0618
Fisher	0697
GE	0549, 0744
Go Video	0742
GoldStar	0768
Gradiente	0678
Greenhill	0744
Grundig	0566
Hitachi	0600, 0691
Hiteker	0699

DVD**Source button name : DVD**

Brand name	Setup code
JVC	0585, 0650
KLH	0744
Kenwood	0517, 0561
Koss	0678
LG	0768
Limit	0795
Magnavox	0530, 0702
Memorex	0858
MiCO	0750
Microsoft	0549
Mintek	0744
Mitsubishi	0548
Mustek	0757
Nesa	0744
Onkyo	0530
Oritron	0678
Palsonic	0699
Panasonic	0517, 0659, 1389
Philips	0530, 0566, 0673, 0881
Pioneer	0552, 0598, 0658, 0659
Polk Audio	0566
Proscan	0549
Qwestar	0678
RCA	0549, 0598, 0744
Rotel	0650
SM Electronic	0757
Samsung	0600
Sanyo	0697
Sharp	0657
Sherwood	0797
Shinsonic	0560
Slim Art	0811
Sony	0560, 0891
Sylvania	0702
Tatung	0797
Teac	0598, 0744
Technics	0517
Theta Digital	0598
Thomson	0549
Toshiba	0530
Urban Concepts	0530
XBox	0549
Yamaha	0517, 0566, 0572
Zenith	0530, 0618, 0768
Zeus	0811

DIRECT BUTTON FUNCTIONS

Source button name : AMP

PAGE	Command	Note
PAGE 1	1 AUTO	SELECT AUTO SURROUND
	2	SELECT DOLBY MODE
	3 DTS	SELECT DTS MODE
	4 EX/ES	SELECT EX/ES
	5 DIRECT	SELECT SOURCE DIRECT
PAGE 2	1 MCH-ST	SELECT MULTI CHANNEL STEREO
	2 STEREO	SELECT STEREO MODE
	3 VIRTUA	SELECT VIRTUAL MODE
	4 CS-II	SELECT CS-II MODE
	5 HT-EQ	SELECT HT-EQ
PAGE 3	1 NIGHT	NIGHT MODE ON/OFF
	2 BASS +	BASS +
	3 BASS -	BASS -
	4 TREB +	TREBLE +
	5 TREB -	TREBLE -
PAGE 4	1 MULTI	MULTI ROOM ON/OFF
	2 M-SPKR	MULTI SPEAKER ON/OFF
	3 A/D	SELECT ANALOG/DIGITAL
	4 V-OFF	VIDEO OFF
	5 AUDIO	BILINGUAL SELECT

Source button name : TUNER

PAGE	Command	Note
PAGE 1	1 FM	SELECT FM
	2 AM	SELECT AM
	3 LW	SELECT LW
	4 T-MODE	SELECT MONO/STEREO
	5 BAND	SELECT RADIO BAND
PAGE 2	1 SCAN +	FREQUENCY SCAN UP
	2 SCAN -	FREQUENCY SCAN DOWN
	3 T-MODE	SELECT MONO/STEREO
	4 P-SCAN	SELECT PRESET SCAN
	5 P-INFO	SHOW PRESET INFORMATION
PAGE 3	1 DISP	RDS DISPLAY
	2 PTY	RDS PTY
	3 AF	RDSALTERNATE FREQEMCY
	4 STM	RDS STATION MODE
	5 DWR	RDS DSR WAVE LANGUAGE
PAGE 4	1 MULTI	MULTI ROOM ON/OFF
	2 M-SPKR	MULTI SPEAKER ON/OFF
	3	
	4 P-SET +	PRESET UP
	5 P-SET -	PRESET DOWN

Source button name : DVD

PAGE	Command	Note
PAGE 1	1 MENU	SELECTS MAIN MENU
	2 AUDIO	SELECT LANGUAGES
	3 SUB-T	SELECT SUB TITLE
	4 10+	DIGIT ENTRY +10
	5 TRAY	TRAY OPEN/CLOSE
PAGE 2	1 SETUP	SELECTS SETUP MENU
	2 ANGLE	SELECTS ANGLE
	3 OSD	ACTIVATES ON SCREEN DISPLAY
	4 FF	FAST FORWARD
	5 REW	REWIND
PAGE 3	1 SLOW	SLOW FORWARD
	2 L-PLAY	LAST PLAY
	3 SHUFLE	SHUFFLE PLAY
	4 REPEAT	REPEAT MODE
	5 A/B	REPEAT A TO B
PAGE 4	1 RETURN	RETURN TO MENU
	2 T/C	TITLE AND CHAPTER
	3 3-D	SURROUND ON/OFF
	4 TITLE	SELECTS TITLE MENU
	5 ZOOM	ZOOM MODE ON/OFF

Source button name : CD

PAGE	Command	Note
PAGE 1	1 DISC +	CD CHANGER NEXT DISC
	2 DISC -	CD CHANGER PREVIOUS DISC
	3 SHUFLE	SHUFFLE PLAY
	4 REPEAT	REPEAT
	5 TRAY	TRAY OPEN/CLOSE
PAGE 2	1 TEXT	ACTIVATE TEXT FUNCTION
	2 AMS	AUTO MUSIC SCAN
	3 SCROLL	SCROLL/RECALL
	4 FF	FAST FORWARD
	5 REW	REWIND
PAGE 3	1 DISC 1	CD CHANGER DISC 1
	2 DISC 2	CD CHANGER DISC 2
	3 DISC 3	CD CHANGER DISC 3
	4 DISC 4	CD CHANGER DISC 4
	5 DISC 5	CD CHANGER DISC 5
PAGE 4	1 UNIT	SELECT UNIT No.
	2 TITL-S	SELECT TITLE SEARCH
	3 TRACK	SELECT TRACK No.
	4 CATGRY	SELECT CATEGORY
	5 P-MODE	SELECT PLAY MODE

Source button name : VCR

PAGE	Command	Note
PAGE 1	1 TV/VCR	SELECT TV/VCR
	2 2XPLAY	TWICE NORMAL PLAYBACK SPEED
	3 SLOW	SLOW PLAYBACK SPEED
	4 STILL	STILL FRAME
	5 EJECT	EJECT
PAGE 2	1 OTR	ONE TOUCH RECORDING
	2 AUDIO	SELECT AUDIO MODE
	3 SKIP	SKIP TO NEXT PROG.MARKER
	4 FF	FAST FORWARD
	5 REW	REWIND
PAGE 3	1 VIS +	VHS INDEX SERCH NEXT
	2 VIS-	VHS INDEX SERCH PREVIOUS
	3	
	4	
	5	

Source button name : CDR

PAGE	Command	Note
PAGE 1	1 INPUT	SELECT INPUT SOURCE
	2 INCR	INCREMENTS TRACK No.
	3 SYNC-R	ACTIVATE SYNCRO RECORDING
	4 PROG	ACTIVATE PROGRAM MODE
	5 TRAY	TRAY OPEN/CLOSE
PAGE 2	1 SCROLL	SCROLL/RECALL
	2 FINAL	FINALIZES(WRITES TOC)
	3 BLANK	RECORDS BLANK
	4 FF	FAST FORWARD
	5 REW	REWIND
PAGE 3	1 BLANK	RECORDS BLANK
	2 REPEAT	ACTIVATE REPEAT MODE
	3	
	4	
	5	

Source button name : TAPE

PAGE	Command	Note
PAGE 1	1 TAPE-A	SELECT TAPE DECK A
	2 TAPE-B	SELECT TAPE DECK B
	3 DIR	AUTO REVERSE DIRECTION
	4 TIME	TIME DISPLAY
	5 TRAY	TRAY OPEN/CLOSE
PAGE 2	1 AMS	AUTO MUSIC SCAN
	2	
	3	
	4 FF	FAST FORWARD
	5 REW	REWIND

Source button name : MD

PAGE	Command	Note
PAGE 1	1 REPEAT	SELECTS REPEAT MODE
	2 SHUFLE	SELECTS SHUFFLE PLAY
	3 DISP	SELECTS DISPLAY MODE
	4 EDIT	SELECT EDIT MODE
	5 EJECT	EJECT
PAGE 2	1 SP/LP	SELECTS SP/LP MODE
	2 DELETE	SELECTS DELETE
	3 ENTER	SELECTS ENTER
	4 FF	FAST FORWARD
	5 REW	REWIND
PAGE 3	1 MARKER	SELECTS AUTO MARKER
	2 PROG	SELECTS PROGRAM MODE
	3 SYNC-R	SYNCRO REC
	4 CHAR	SELECTS CHARACTER MODE
	5	

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JAPAN	Marantz Japan, Inc.	35-1 Sagami Ohno 7-Chome, Sagamihara-shi, Kanagawa 228-8505, Japan
U.S.A.	Marantz America, Inc.	1100 Maplewood Drive, Itasca, IL 60143, U.S.A.
EUROPE	Marantz Europe B.V.	P.O. Box 8744, 5605 LS Eindhoven, The Netherlands

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